

GRUPPO **RAINIA**  
ITALIANARETAIL

Made in Italy  
orgogliosi di esserlo



GRUPPO  **RAINA**  
L'unione fa la luce.



**IDEALLUX®**

*Lookup*

**COLOMBO**

**ITALIANARETAIL**

# GRUPPO RAINA

L'unione fa la luce.



Il Gruppo Raina è il brand che raggruppa sotto lo stesso nome i marchi: IDEALLUX® produzione storica specializzata nella realizzazione e vendita di apparecchi destinati ai settori dell'industria e del terziario. LOOKUP con la sua nuova e ampia gamma di apparecchi decorativi e architettonici. COLOMBO marchio specifico per gli apparecchi stradali, arredo urbano e da esterno. Italiana Retail nasce per garantire la corretta illuminazione di shop e store, oltre al residenziale.

*GRUPPO RAINA is the brand that brings together under the same name: IDEALLUX® historical production specialized in the production and sale of fittings for industry and tertiary. COLOMBO brand specific for street and outdoor fixtures. LOOKUP® with its wide and new range of decorative lighting fittings.*

*Gruppo Raina est une identité qui regroupe sous le même nom les marques: IDEALLUX® production historique spécialisée dans la réalisation et la vente d'appareils d'éclairage destinés au secteur de l'industrie et du tertiaire. LOOKUP avec sa nouvelle gamme complète d'appareils décoratifs et architecturaux. COLOMBO marque spécifique pour l'éclairage publique et extérieur. Italiana Retail créée pour garantir la qualité d'éclairage pour le secteur Retail et résidentiel.*

*GRUPPO RAINA is the brand that brings together under the same name: IDEALLUX® historical production specialized in the production and sale of fittings for industry and tertiary. COLOMBO brand specific for street and outdoor fixtures. LOOKUP® with its wide and new range of decorative lighting fittings.*



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**PROIETTORI A BINARIO**

*TRACK PROJECTORS / PROJECTEUR SUR RAIL / PROYECTOR DE CARRIL*

TREDICI48  
BEBA  
LERICA  
KAOMI  
MOMI  
SNOPY  
MUSE  
VALE

48 / 55

**SISTEMI LINEARI A BINARIO**

*TRACK LINEAR SYSTEM / SYSTÈME LINÉAIRE SUR RAIL / SISTEMA LINEAL DE CARRIL*

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SOTTILE TRACK  
MINI ALGEBRA TRACK  
MINI ALGEBRA

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**INCASSI DOWNLIGHT**

*RECESSED DOWNLIGHTS / APPAREILS ENCASTRÉS LED / LUMINARIAS LED DE EMPOTRAR*

ZETA  
MINIMAG  
UNO  
SII  
ENNE  
SPECCHIO  
CENTOTTANTA  
CENTOSETTANTA

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**INCASSI ORIENTABILI**

*ADJUSTABLE RECESSED / ENCASTRÉS ORIENTABLES / ORIENTABLES DE EMPOTRAR*

MICRO GIRO  
MINIAUTOMA  
AUTOMA  
SII ORIENT  
ENNE ORIENT  
MINI GIRO  
ROLLER  
GIRO

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TUBI  
DECOR MINI  
SPECIALE ROSONI / SPECIAL ROSE / PATÈRES SPÉCIALES / ROSETAS ESPECIALES

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*SUSPENSION CEILING TRACK / SUSPENSION SAILLIE RAIL / SUSPENSIÓN TECHO CARRIL*

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OPO  
LOFT  
COCO  
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MAGGIOLINA

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*SYSTEM 24 VOLT / SYSTÈME LED 24 VOLT / SISTEMA LED 24 VOLT*

SOO L  
SOO STAND  
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LUMA

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*ACCESSORIES / ACCESSOIRES / ACCESORIOS*

BINARI DALI / TRACK DALI  
ALIMENTATORI / DRIVERS

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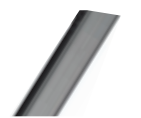


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**INCASSI DOWNLIGHT** RECESSED DOWNLIGHTS / APPAREILS ENCASTRÉS LED / LUMINARIAS LED DE EMPOTRAR



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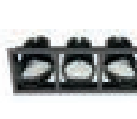
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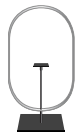


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# Si parla di luce.

*We talk about light.*

*On parle de lumière.*

*Se habla de luz.*





Il gruppo ha come mission la progettazione e la produzione di sistemi di illuminazione, caratterizzati da un'elevata tecnologia e da un ottimo rendimento, totalmente realizzati nello stabilimento di Cilavegna, in Provincia di Pavia e certificati 100% Made in Italy. Gruppo Raina vanta tra le certificazioni ottenute la certificazione ISO 9001:2008 e la certificazione 100% Made in Italy rilasciata dall'Istituto Per la Tutela dei Produttori Italiani. I numeri del gruppo riassumono le capacità dello stesso, con i suoi 12.000 mq di stabilimento produttivo, 7.000 mq di magazzino, 100 risorse impiegate e oltre 3.800 clienti attivi.

*The group's mission is the design and production of lighting systems characterized from high technology and very good performance, totally made at the Cilavegna plant in the Province of Pavia and certified 100% Made in Italy. The Gruppo Raina obtained the Certification ISO 9001: 2008 and the 100% Made in Italy Certification issued by the Institute for the Protection of Italian Manufacturers. The numbers of the group can explain the capacity of it: 12.000 square meters of production plant, 7.000 sqm of warehouse, 100 resources employed and more than 3.800 active customers.*

*Le groupe a comme mission la conception et la production de systèmes d'éclairage de haute technologie avec de belles performances, le tout est réalisé dans l'usine de Cilavegna, dans la province de Pavie. La certification ISO 9001 et la certification 100% Made in Italie ont été délivrés par l'Institut de protection des fabricants italiens. Les nombres : 12.000 m² de production, 7.000 m² d'entrepôt, 100 employés et 3.800 clients actifs.*

*El grupo tiene como misión el diseño y producción de sistemas de iluminación, fabricados en la planta de Cilavegna, en la provincia de Pavia. Las certificaciones ISO 9001 y 100% Made in Italy fueron emitidas por el Instituto para la Protección de Fabricantes Italianos. Los números : 12.000 mq de planta de producción, 7.000 mq de almacén, 100 empleados, 3.800 clientes activos.*



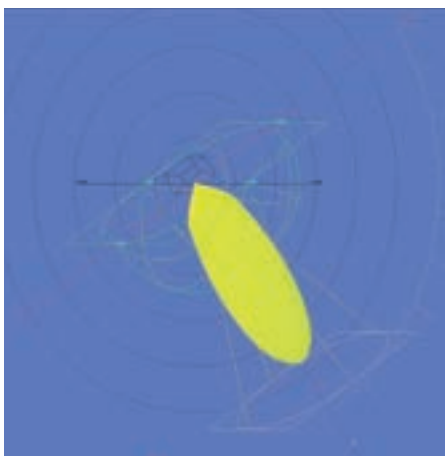
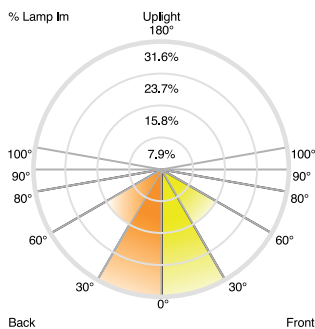


In un progetto la fase di acquisizione dei dati, delle necessità e dei gusti del mercato diventa essenziale per la corretta messa a fuoco dell'intero processo ideativo. La struttura tecnica di GRUPPO RAINA, vasta e integrata nelle sue funzioni e competenze, garantisce l'ottimizzazione del processo progettuale: dalla valutazione del costo industriale alla qualità globale del prodotto. Tutti i processi inerenti alla progettazione vengono gestiti all'interno dell'azienda. La progettazione viene realizzata da personale altamente qualificato che, attraverso l'utilizzo di software avanzati, sviluppa, analizza e progetta il prodotto in tutte le sue parti. La realizzazione di un prototipo, testato nel laboratorio fotometrico, è la parte conclusiva di questo processo. GRUPPO RAINA è specializzata nella creazione di apparecchi CUSTOM proprio grazie alla capacità di adattare il prodotto alle esigenze del cliente.

*The data acquisition, market's needs and demands are essential for the proper focus of the idea and development of the project. The wide technical GRUPPO RAINA structure with its many functions and skills, guarantees the optimization of product design process: starting from the industrial cost evaluation to the overall quality of the product. All the different steps of the design project are managed within the company. Through use of advanced software, the highly qualified staff develops, analyzes and designs the product in all its parts. This design process ends with the production of a prototype, tested in the internal photometric laboratory. Thanks to its ability to adapt the product to customer requirements, GRUPPO RAINA is specialized in the creation of "CUSTOM MADE PRODUCTS".*

*Dans un projet il est essentiel de connaître les besoins et les goûts du marché afin de développer au mieux le projet. GRUPPO RAINA possède une structure technique et des compétences qui vont lui permettre d'optimiser le processus d'élaboration : de l'évaluation du coût industriel à la qualité globale du produit. La conception du projet est entièrement réalisée dans l'entreprise par du personnel hautement qualifié qui, grâce à l'utilisation de logiciels performants, vont développer, analyser et réaliser entièrement le produit. La dernière étape est la réalisation du prototype, testé en laboratoire photométrique. GRUPPO RAINA est spécialisé dans la création d'appareils CUSTOM grâce à ses capacités d'adapter le produit aux exigences du client.*

*En un proyecto la fase de adquisición de datos, de necesidades y de gustos del mercado se vuelve esencial para el correcto enfoque de todo el proceso creativo. La estructura técnica de GRUPPO RAINA, vasta e integrada en sus funciones y competencias, garantiza la optimización del proceso de diseño: desde la evaluación del coste industrial a la calidad global del producto. Todos los procesos inherentes al diseño se gestionan en el interior de la empresa con personal altamente cualificado que mediante el uso de programas informáticos avanzados, desarrolla, analiza y diseña el producto en su total concepción. La realización del prototipo, probado en el laboratorio fotométrico, es la parte final de este proceso. GRUPPO RAINA se especializa en la creación de luminarias personalizadas gracias a la capacidad de adaptar el producto a las exigencias del cliente.*



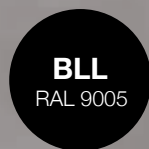
MADE IN ITALY





**WI**  
RAL 9016

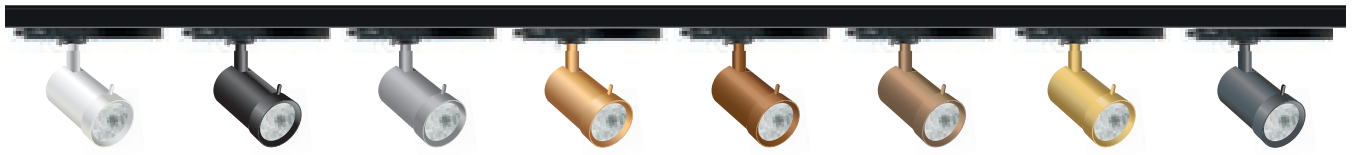
White Irazu



**BLL**  
RAL 9005

Black Lava

----- STANDARD -----



Silver Bombalai



Bronze Iario



Rust Rame



Beige Futura



Gold Karkar



Blue Telica

ON REQUEST



TREDICI48

BEBA S

LERICA S

KAOMI S/10

KAOMI S/3

MOMI S/10

MOMI S/3

SNOPI S/10

SNOPI S/3

MUSE 80 S/10

MUSE 80 S/3

VALE S

Proiettori LED per il retail con alimentatore integrato a binario.  
Performance illuminotecniche nettamente superiori all'attuale generazione di lampade LED.

*LED projectors for retail with built-in driver in the track.  
Lighting performance definitely higher compared to the others LED fixtures in the market nowadays.*

*Projecteur LED pour le secteur retail avec faisceau ajustable.  
Performance d'éclairage nettement supérieure à celle des autres appareils LED existants sur le marché.*

*Projector Led para el Retail con haz regulable.  
Rendimiento de iluminación mejor que los otros dispositivos LED del mercado actual.*

## PROIETTORI A BINARIO

TRACK PROJECTORS  
PROJECTEUR SUR RAIL  
PROYECTOR DE CARRIL





Stilistica  
E MODA (3 TENDI)  
MA UN PRINCIPIO DI VITA  
PRESENTE E FUTURO

LA CASA  
DEI SOGNI

OGGI  
SOLLE  
ABITARE  
CORRENTE

IL NUOVO  
PARADISO  
DEI SOGNI

**GREEN  
THINKING:  
L'ANIMA DELLA  
TUA NUOVA  
CASA**

# TREDICI48

Proiettori LED per il retail con fascio regolabile.  
Performance illuminotecniche nettamente superiori all'attuale  
generazione di lampade LED.

*LED projectors for retail with adjustable beam.  
Lighting performance definitely higher compared to the other  
LED fixtures in the market nowadays.*

*Projecteur LED pour le secteur retail avec faisceau ajustable.  
Performance d'éclairage nettement supérieure à celle des  
autres appareils LED existants sur le marché.*

*Proyector Led para el Retail con haz regulable.  
Rendimiento de iluminación mejor que los otros dispositivos LED  
del mercado actual.*

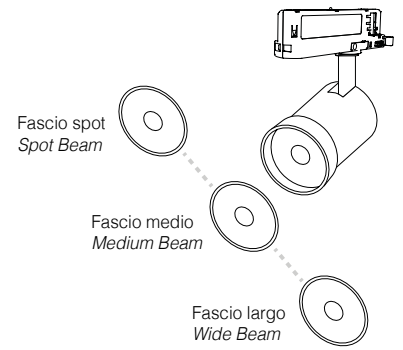
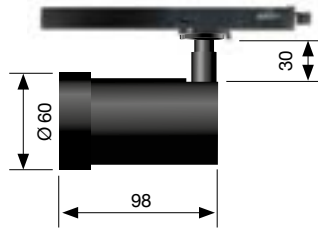
## PROIETTORI A BINARIO

TRACK PROJECTORS  
PROJECTEUR SUR RAIL  
PROYECTOR DE CARRIL





**SPOT** 13,5° <<< — — — — — — — — — — >>> **WIDE** 48°



# TREDICI48

## FASCIO REGOLABILE/ADJUSTABLE BEAM

## FAISCEAU REGLABLE/HAZ AJUSTABLE

Proiettore LED a binario orientabile con fascio regolabile.  
Adjustable track-mounted LED projector with adjustable beam.  
Projecteur LED orientable sur rail avec faisceau réglable.  
Proyector Led orientable de carril con haz regulable.

Corpo in estruso d'alluminio lavorato dal pieno con funzione di dissipatore verniciato con polveri epossidiche previa fosfatazione. Ottica lenticolare regolabile da 13,5° a 48°. Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con alimentazione integrata nell'adattatore ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Extruded aluminium body machined from solid, with heatsink function, painted with epoxy powders after phosphating. Lenticular optic adjustable beam from 13,5° to 48°. LED light source. Direct light emission. Track mounting system with built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium extrudé réalisé par usinage lui donnant la propriété de dissipateur, avec traitement époxy. Optique lenticulaire réglable de 13,5° à 48°. Source lumineuse LED. Emission directe. Système de fixation sur rail avec alimentation ON/OFF intégrée à l'adaptateur. Sur demande: dimmable DALI (réf. DL).

Cuerpo de aluminio extruido mecanizado a partir de sólido con función de disipador y recubierto con polvo epoxi previamente fosfatado. Óptica lenticular ajustable desde 13,5° hasta 48°. Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril con alimentación ON/OFF integrada en el adaptador. A pedido: regulación DALI (cód. DL).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1100	9	≤ 122	250	HRTR481	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	Regolabile da 13,5° a 48°	-: ON/OFF  <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
1550	13	≤ 119	350	HRTR482		Adjustable from 13,5° to 48°		
2150	18,5	≤ 116	500	HRTR483				
2950	26	≤ 114	700	HRTR484				

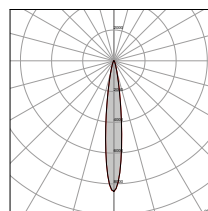


A richiesta | On request

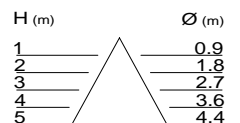
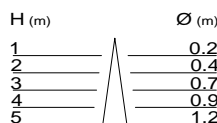
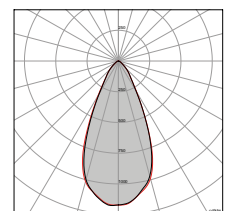
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

Ottica SP 13,5°



Ottica LA 48°





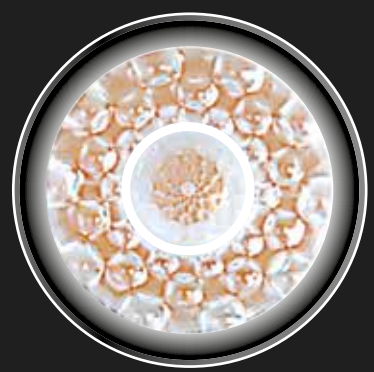
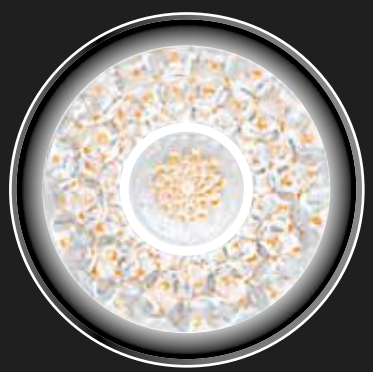
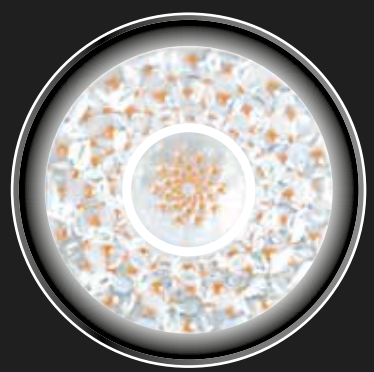
13,5°  
**FASCIO SPOT**  
*SPOT BEAM*



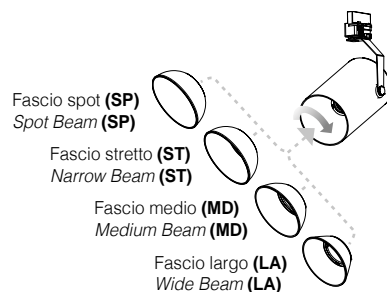
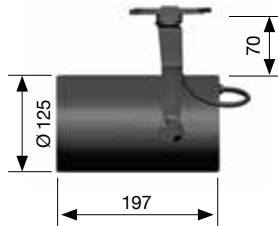
34°  
**FASCIO MEDIO**  
*MEDIUM BEAM*



48°  
**FASCIO LARGO**  
*WIDE BEAM*







Nota/Note  
 Ottiche intercambiabili senza ausilio di utensili  
 Exchangeable optics without using of tools

# BEBA S

FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.  
 Projecteur LED orientable sur rail avec optiques échangeables.  
 Proyector LED orientable de carril con ópticas intercambiables.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con alimentazione integrata nell'adattatore ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Extruded aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Track mounting system with built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium extrudé avec traitement époxy. Dissipateur en aluminium extrudé. Optique en polycarbonate métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Système de fixation sur rail avec alimentation ON/OFF intégrée. Sur demande: dimmable DALI (réf. DL).

Cuerpo de aluminio extruido recubierto con polvo epoxi previamente fosfatado. Dissipador de aluminio extruido. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril con alimentación ON/OFF integrada. A pedido: regulación DALI (cód. DL).

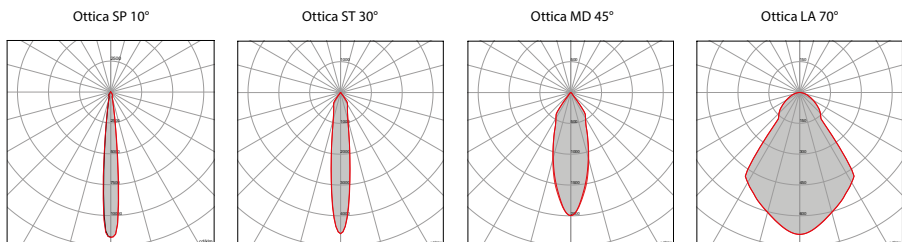
5Y WARRANTY 5% FAILURE RATE | 60.000 h LED LIFETIME L90B10 | 100.000 h LED LIFETIME L70B50 | RIPPLE FREE

Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2950	26	≤ 114	700	HRBAS1	WW: 2700 W: 3000 X: 3500 N: 4000	SP: fascio spot spot beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● WI: White Irazu ● BLL: Black Lava  <b>Su richiesta /On request:</b> ● SB: Silver Bombalai ● BL: Bronze Lario ● RR: Rust Rame ● BF: Beige Futura ● GK: Gold Karkar ● BT: Blue Telica
3350	30	≤ 112	800	HRBAS2		ST: fascio stretto narrow beam		
3800	34	≤ 111	900	HRBAS3		MD: fascio medio medium beam		
4240	40	≤ 106	1050	HRBAS4		LA: fascio largo wide beam		
4480	39	≤ 115	1050	HRBAS5				

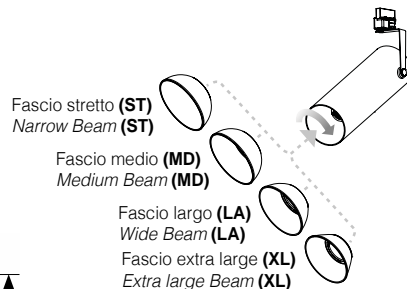
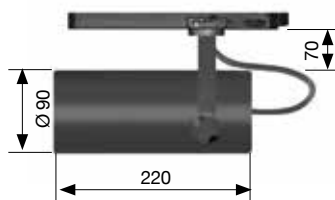
A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.2	1	0.5	1	0.8	1	1.4
2	0.3	2	1.0	2	1.6	2	2.8
3	0.5	3	1.6	3	2.5	3	4.2
4	0.7	4	2.1	4	3.3	4	5.6
5	0.8	5	2.7	5	4.2	5	7.0



Nota/Note  
 Ottiche intercambiabili senza ausilio di utensili  
 Exchangeable optics without using of tools

# LERICA S

FASCIO/BEAM/FAISCEAU/HAZ ST | MD | LA | XL

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.  
 Projecteur LED orientable sur rail avec optiques échangeables.  
 Proyector LED orientable de carril con ópticas intercambiables.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio extra largo (cod. XL) fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con alimentazione integrata nell'adattatore ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Extruded aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Metallized polycarbonate louver extra large beam (cod. XL) wide beam (code LA) medium beam (code MD) narrow beam (code ST). LED light source. Direct light emission. Track mounting system with built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium extrudé avec traitement époxy. Dissipateur en aluminium extrudé. Optique en polycarbonate métallisé à faisceau extra large (réf. XL) faisceau large (réf. LA) faisceau medium (réf. MD) faisceau étroit (réf. ST). Source lumineuse LED. Emission directe. Système de fixation sur rail avec alimentation ON/OFF intégrée à l'adaptateur. Sur demande: dimmable DALI (réf. DL).

Cuerpo de aluminio extruido recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica de policarbonato metalizado de haz extra amplio (cód. XL) haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril con alimentación integrada en el adaptador ON/OFF. A pedido: regulación DALI (cód. DL).



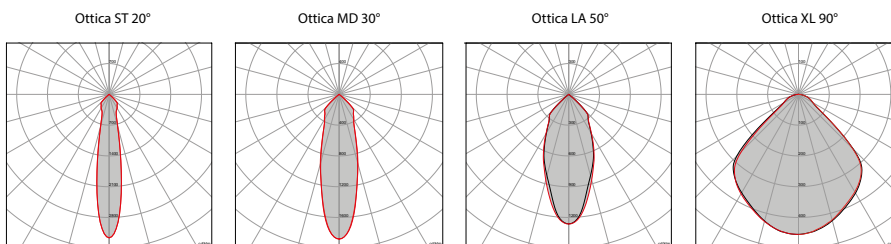
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2150	18	≤ 120	500	<b>HRLAS1</b>	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	<b>ST:</b> fascio stretto <i>narrow beam</i>  <b>MD:</b> fascio medio <i>medium beam</i>  <b>LA:</b> fascio largo <i>wide beam</i>  <b>XL:</b> fascio extra large <i>extra large beam</i>	-: ON/OFF  <b>DL:</b> DALI	<b>Standard:</b> ● <b>WL:</b> White Irazu ● <b>BLL:</b> Black Lava  <b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
2950	26	≤ 114	700	<b>HRLAS2</b>				
3350	30	≤ 112	800	<b>HRLAS3</b>				



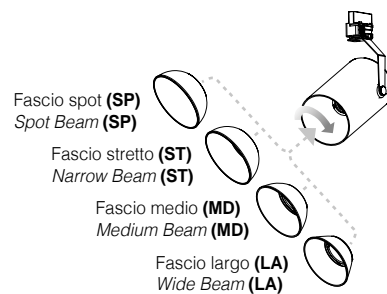
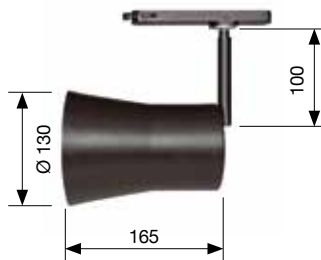
A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.5	1	0.9	1	2.0
2	0.7	2	1.0	2	1.9	2	4.0
3	1.0	3	1.6	3	2.8	3	6.0
4	1.4	4	2.1	4	3.7	4	8.0
5	1.7	5	2.7	5	4.7	5	10



Nota/Note  
 Ottiche intercambiabili senza ausilio di utensili  
 Exchangeable optics without using of tools

# KAOMI S/10

FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.  
 Projecteur LED orientable sur rail avec optiques échangeables.  
 Projector LED orientable de carril con ópticas intercambiables.

Corpo in alluminio tornito verniciato con polveri epossidiche previa fosfatizzazione. Dissipatore in alluminio estruso. Ottica in alluminio metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con alimentazione integrata nell'adattatore ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Turned aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Metallized aluminium louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Track mounting system with built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium tournée avec traitement époxy. Dissipateur en aluminium extrudé. Optique en aluminium métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Système de fixation sur rail avec alimentation intégrée dans l'adaptateur ON/OFF. Sur demande: dimmable DALI (réf. DL).

Cuerpo en aluminio torneado y recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica de aluminio metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril con alimentación integrada en el adaptador ON/OFF. A pedido: regulación DALI (cód. DL).



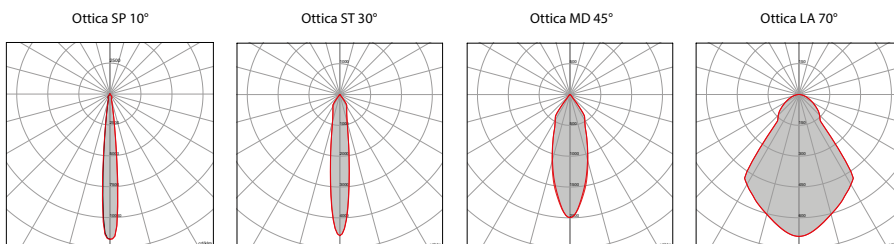
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2950	26	≤ 114	700	HRKA11	WW: 2700 W: 3000 X: 3500 N: 4000	SP: fascio spot spot beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● WI: White Irazu ● BLL: Black Lava <b>Su richiesta /On request:</b> ● SB: Silver Bombalai ● BL: Bronze Lario ● RR: Rust Rame ● BF: Beige Futura ● GK: Gold Karkar ● BT: Blue Telica
3350	30	≤ 112	800	HRKA12		ST: fascio stretto narrow beam		
3800	34	≤ 111	900	HRKA13		MD: fascio medio medium beam		
4240	40	≤ 106	1050	HRKA14		LA: fascio largo wide beam		
4480	39	≤ 115	1050	HRKA15				



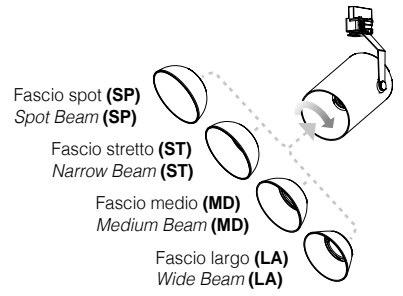
A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.2	1	0.5	1	0.8	1	1.4
2	0.3	2	1.0	2	1.6	2	2.8
3	0.5	3	1.6	3	2.5	3	4.2
4	0.7	4	2.1	4	3.3	4	5.6
5	0.8	5	2.7	5	4.2	5	7.0



Nota/Note  
 Ottiche intercambiabili senza ausilio di utensili  
 Exchangeable optics without using of tools

# KAOMI S/3

FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.  
 Projecteur LED orientable sur rail avec optiques échangeables.  
 Projector LED orientable de carril con ópticas intercambiables.

Corpo in alluminio tornito verniciato con polveri epossidiche previa fosfatizzazione. Dissipatore in alluminio estruso. Ottica in alluminio metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con alimentazione integrata nell'adattatore ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Turned aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Metallized aluminium louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (cod. SP). LED light source. Direct light emission. Track mounting system with built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium tournée avec traitement époxy. Dissipateur en aluminium extrudé. Optique en aluminium métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Système de fixation sur rail avec alimentation intégrée dans l'adaptateur ON/OFF. Sur demande: dimmable DALI (réf. DL).

Cuerpo en aluminio torneado y recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica de aluminio metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril con alimentación integrada en el adaptador ON/OFF. A pedido: regulación DALI (cód. DL).

5Y WARRANTY 5% FAILURE RATE | 60,000 h LED LIFETIME L90B10 | 100,000 h LED LIFETIME L70B50 | RIPPLE FREE

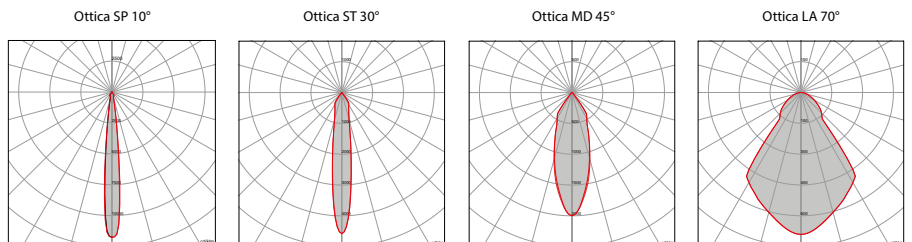
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2950	26	≤ 114	700	HRKA31	WW: 2700 W:3000 X:3500 N:4000	SP: fascio spot spot beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● <b>W1:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
3350	30	≤ 112	800	HRKA32		ST: fascio stretto narrow beam		
3800	34	≤ 111	900	HRKA33		MD: fascio medio medium beam		
4240	40	≤ 106	1050	HRKA34		LA: fascio largo wide beam		
4480	39	≤ 115	1050	HRKA35				

CE | Recycled | >90 CRI | 3SDCM | IP44 EN 60529 | IK 07 EN 60968 | 230 V 2014/251/E | 50/60 Hz | 850° EN 60995 | DALI DIM W | >80 CRI | >95 CRI | VIVID PLUS | VEG PLUS | WHITE PLUS | MEAT PLUS

A richiesta | On request

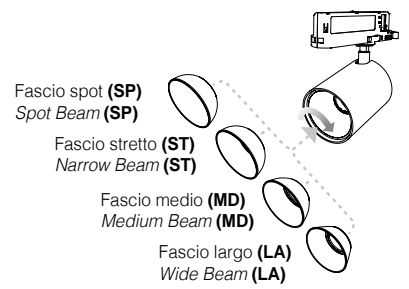
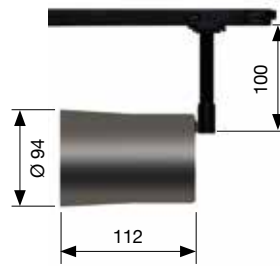
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.2	1	0.5	1	0.8	1	1.4
2	0.3	2	1.0	2	1.6	2	2.8
3	0.5	3	1.6	3	2.5	3	4.2
4	0.7	4	2.1	4	3.3	4	5.6
5	0.8	5	2.7	5	4.2	5	7.0





Nota/Note  
 Ottiche intercambiabili senza ausilio di utensili  
 Exchangeable optics without using of tools

# MOMI S/10

FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.  
 Projecteur LED orientable sur rail avec optiques échangeables.  
 Proyector LED orientable de carril con ópticas intercambiables.

Corpo in alluminio tornito verniciato con polveri epossidiche previa fosfatizzazione. Dissipatore in alluminio estruso. Ottica in alluminio metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con alimentazione integrata nell'adattatore ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Turned aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Metallized aluminium louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Track mounting system with built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium tournée avec traitement époxy. Dissipateur en aluminium extrudé. Optique en aluminium métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Système de fixation sur rail avec alimentation intégrée dans l'adaptateur ON/OFF. Sur demande: dimmable DALI (réf. DL).

Cuerpo en aluminio torneado y recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Optica de aluminio metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril con alimentación integrada en el adaptador ON/OFF. A pedido: regulación DALI (cód. DL).



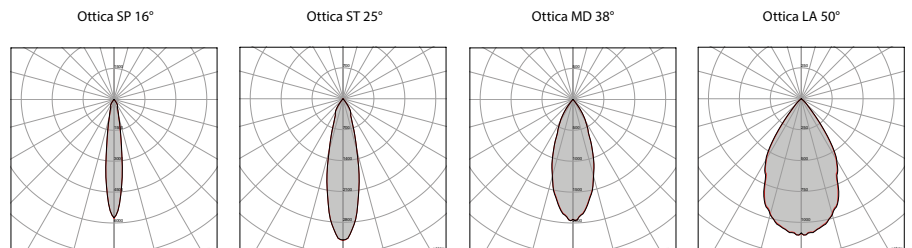
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2340	18	≤ 130	500	HRMO11	WW: 2700 W:3000 X:3500 N:4000	SP: fascio spot spot beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
2760	22	≤ 126	600	HRMO12		ST: fascio stretto narrow beam		
3080	25,5	≤ 121	700	HRMO13		MD: fascio medio medium beam		
3770	33	≤ 114	900	HRMO14		LA: fascio largo wide beam		



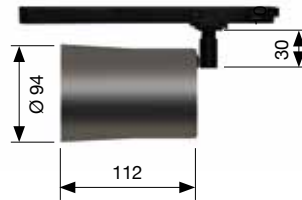
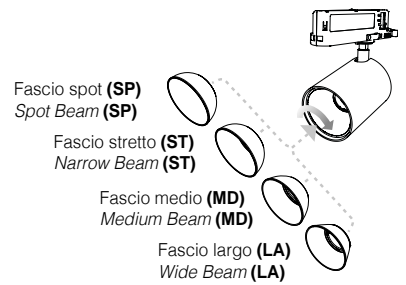
A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	0.7	1	1.1
2	0.5	2	0.9	2	1.5	2	2.3
3	1.7	3	1.3	3	2.2	3	3.5
4	1.0	4	1.8	4	2.9	4	4.6
5	1.2	5	2.2	5	3.6	5	5.8



Nota/Note  
 Ottiche intercambiabili senza ausilio di utensili  
 Exchangeable optics without using of tools

# MOMI S/3

FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.  
 Projecteur LED orientable sur rail avec optiques échangeables.  
 Proyector LED orientable de carril con ópticas intercambiables.

Corpo in alluminio tornito verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in alluminio metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con alimentazione integrata nell'adattatore ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Turned aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Metallized aluminium louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Track mounting system with built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium tournée avec traitement époxy. Dissipateur en aluminium extrudé. Optique en aluminium métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Système de fixation sur rail avec alimentation intégrée dans l'adaptateur ON/OFF. Sur demande: dimmable DALI (réf. DL).

Cuerpo en aluminio torneado y recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica de aluminio metallizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril con alimentación integrada en el adaptador ON/OFF. A pedido: regulación DALI (cód. DL).



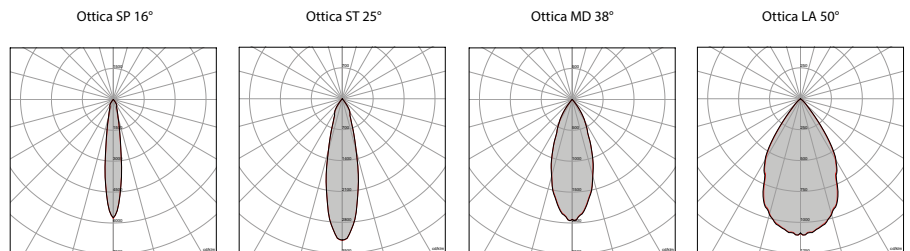
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2340	18	≤ 130	500	HRMO31	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	<b>SP:</b> fascio spot spot beam <b>ST:</b> fascio stretto narrow beam <b>MD:</b> fascio medio medium beam <b>LA:</b> fascio largo wide beam	-: ON/OFF  <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
2760	22	≤ 126	600	HRMO32				
3080	25,5	≤ 121	700	HRMO33				
3770	33	≤ 114	900	HRMO34				



A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%



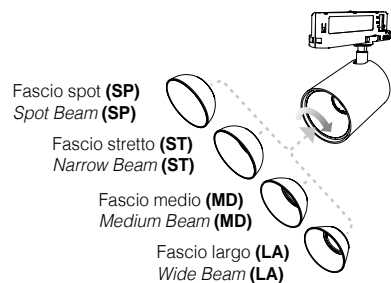
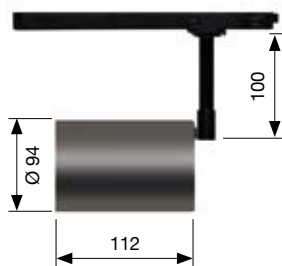
H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	0.7	1	1.1
2	0.5	2	0.9	2	1.5	2	2.3
3	1.7	3	1.3	3	2.2	3	3.5
4	1.0	4	1.8	4	2.9	4	4.6
5	1.2	5	2.2	5	3.6	5	5.8

DOUGLAS

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Nota/Note  
 Ottiche intercambiabili senza ausilio di utensili  
 Exchangeable optics without using of tools

# SNOPI S/10

FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.  
 Projecteur LED orientable sur rail avec optiques échangeables.  
 Projector LED orientable de carril con ópticas intercambiables.

Corpo in alluminio tornito verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in alluminio metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con alimentazione integrata nell'adattatore ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Turned aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Metallized aluminium louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Track mounting system with built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium tournée avec traitement époxy. Dissipateur en aluminium extrudé. Optique en aluminium métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Système de fixation sur rail avec alimentation intégrée dans l'adaptateur ON/OFF. Sur demande: dimmable DALI (réf. DL).

Cuerpo en aluminio torneado y recubierto con polvo epoxi previamente fosfatao. Disipador de aluminio extruido. Óptica de aluminio metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril con alimentación integrada en el adaptador ON/OFF. A pedido: regulación DALI (cód. DL).

5Y WARRANTY 5% FAILURE RATE | 60,000 h LED LIFETIME L90B10 | 100,000 h LED LIFETIME L70B50 | RIPPLE FREE

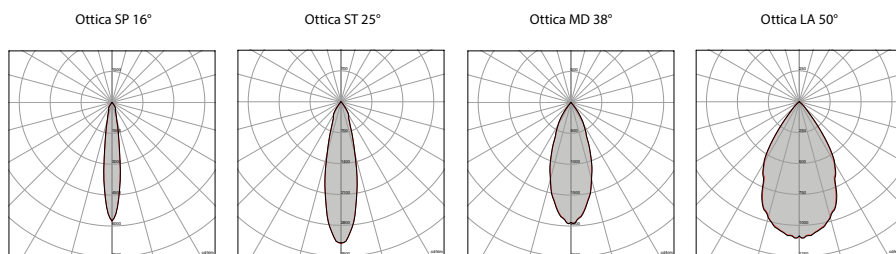
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2340	18	≤ 130	500	HRSN11	WW: 2700 W: 3000 X: 3500 N: 4000	SP: fascio spot spot beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
2760	22	≤ 126	600	HRSN12		ST: fascio stretto narrow beam		
3080	25,5	≤ 121	700	HRSN13		MD: fascio medio medium beam		
3770	33	≤ 114	900	HRSN14		LA: fascio largo wide beam		

CE | Recycled | >90 CRI | 3SDCM | IP40 EN 60529 | IK 07 EN 60068 | 230 V 2014/25/EU | 50/60 Hz | 850° EN 60995 | DALI DIM W | >80 CRI | >95 CRI | VIVID PLUS | VEG PLUS | WHITE PLUS | MEAT PLUS

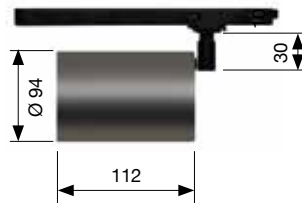
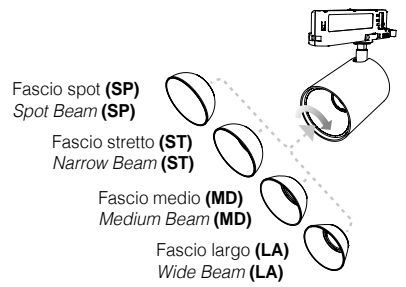
A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	0.7	1	1.1
2	0.5	2	0.9	2	1.5	2	2.3
3	1.7	3	1.3	3	2.2	3	3.5
4	1.0	4	1.8	4	2.9	4	4.6
5	1.2	5	2.2	5	3.6	5	5.8



Nota/Note  
Ottiche intercambiabili senza ausilio di utensili  
Exchangeable optics without using of tools

# SNOPI S/3

FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
Adjustable track-mounted LED projector, exchangeable optics.  
Projecteur LED orientable sur rail avec optiques échangeables.  
Proyector LED orientable de carril con ópticas intercambiables.

Corpo in alluminio tornito verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in alluminio metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con alimentazione integrata nell'adattatore ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Turned aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Metallized aluminium louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Track mounting system with built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium tournée avec traitement époxy. Dissipateur en aluminium extrudé. Optique en aluminium métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Système de fixation sur rail avec alimentation intégrée dans l'adaptateur ON/OFF. Sur demande: dimmable DALI (réf. DL).

Cuerpo en aluminio torneado y recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica de aluminio metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril con alimentación integrada en el adaptador ON/OFF. A pedido: regulación DALI (cód. DL).



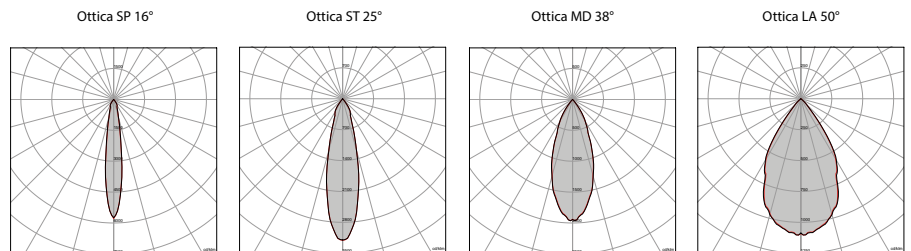
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2340	18	≤ 130	500	HRSN31	WW: 2700 W:3000 X:3500 N:4000	SP: fascio spot spot beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
2760	22	≤ 126	600	HRSN32		ST: fascio stretto narrow beam		
3080	25,5	≤ 121	700	HRSN33		MD: fascio medio medium beam		
3770	33	≤ 114	900	HRSN34		LA: fascio largo wide beam		



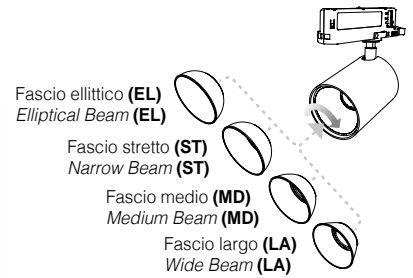
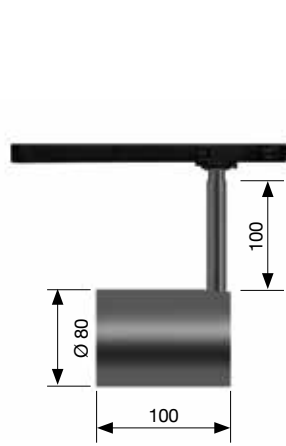
A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90.  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90.  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	0.7	1	1.1
2	0.5	2	0.9	2	1.5	2	2.3
3	1.7	3	1.3	3	2.2	3	3.5
4	1.0	4	1.8	4	2.9	4	4.6
5	1.2	5	2.2	5	3.6	5	5.8



Nota/Note  
 Ottiche intercambiabili senza ausilio di utensili  
 Exchangeable optics without using of tools

# MUSE 80 S/10

FASCIO/BEAM/FAISCEAU/HAZ EL | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.  
 Projecteur LED orientable sur rail avec optiques échangeables.  
 Proyector LED orientable de carril con ópticas intercambiables.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio ellittico (cod. EL). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con alimentazione integrata nell'adattatore ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Extruded aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) elliptical beam (code EL). LED light source. Direct light emission. Track mounting system with built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium extrudé avec traitement époxy. Dissipateur en aluminium extrudé. Optique en polycarbonate métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau elliptique (réf. EL). Source lumineuse LED. Emission directe. Système de fixation sur rail avec alimentation intégrée à l'adaptateur ON/OFF. Sur demande: dimmable DALI (réf. DL).

Cuerpo de aluminio extruido recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz elíptico (cód. EL). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril con alimentación integrada en el adaptador ON/OFF. A pedido: regulación DALI (cód. DL).

5Y WARRANTY 5% FAILURE RATE | 60,000 h LED LIFETIME L90B10 | 100,000 h LED LIFETIME L70B50 | RIPPLE FREE

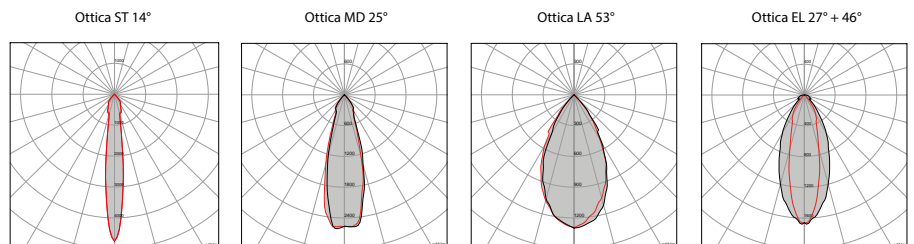
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2150	18	≤ 120	500	HRM8S11	WW: 2700 W:3000 X:3500 N:4000	<b>EL:</b> fascio ellittico <i>elliptical beam</i> <b>ST:</b> fascio stretto <i>narrow beam</i> <b>MD:</b> fascio medio <i>medium beam</i> <b>LA:</b> fascio largo <i>wide beam</i>	-: ON/OFF  DL: DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
2950	26	≤ 114	700	HRM8S12				
3350	30	≤ 112	800	HRM8S13				

CE | DALI | >90 CRI | 3SDCM | IP44 EN 60529 | IK 07 EN 60068 | 230 V 2014/26/EU | 50/60 Hz | 850° EN 60695 | RG 0 EN 62471 | DALI | DIM W | >80 CRI | >95 CRI | VIVID PLUS | VEG PLUS | WHITE PLUS | MEAT PLUS

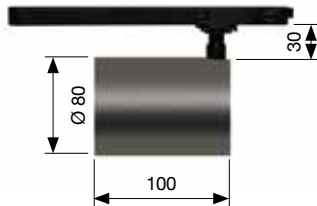
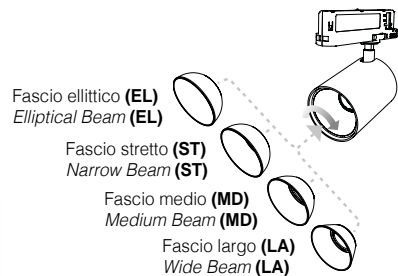
A richiesta / On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	1.0	1	0.8
2	0.5	2	0.9	2	2.0	2	1.6
3	1.7	3	1.3	3	2.8	3	2.5
4	1.0	4	1.8	4	4.0	4	3.3
5	1.2	5	2.2	5	5.0	5	4.2



Nota/Note  
Ottiche intercambiabili senza ausilio di utensili  
Exchangeable optics without using of tools

# MUSE 80 S/3

FASCIO/BEAM/FAISCEAU/HAZ EL | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
Adjustable track-mounted LED projector, exchangeable optics.  
Projecteur LED orientable sur rail avec optiques échangeables.  
Projector LED orientable de carril con ópticas intercambiables.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio ellittico (cod. EL). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con alimentazione integrata nell'adattatore ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Extruded aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) elliptical beam (code EL). LED light source. Direct light emission. Track mounting system with built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium extrudé avec traitement époxy. Dissipateur en aluminium extrudé. Optique en polycarbonate métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau elliptique (réf. EL). Source lumineuse LED. Emission directe. Système de fixation sur rail avec alimentation intégrée à l'adaptateur ON/OFF. Sur demande: dimmable DALI (réf. DL).

Cuerpo de aluminio extruido recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz elíptico (cód. EL). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril con alimentación integrada en el adaptador ON/OFF. A pedido: regulación DALI (cód. DL).



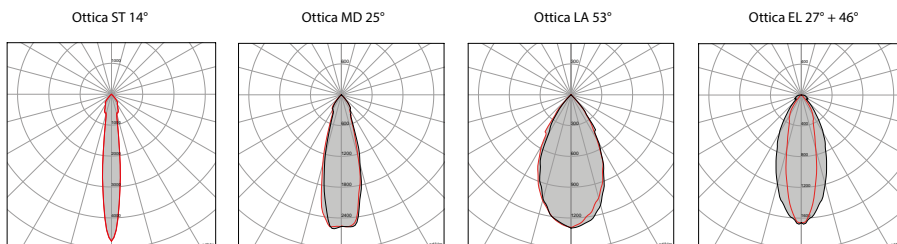
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2150	18	≤ 120	500	HRM8S31	WW: 2700 W: 3000 X: 3500 N: 4000	EL: fascio ellittico elliptical beam	-: ON/OFF DL: DALI	<b>Standard:</b> ● WI: White Irazu ● BLL: Black Lava <b>Su richiesta / On request:</b> ● SB: Silver Bombalai ● BL: Bronze Lario ● RR: Rust Rame ● BF: Beige Futura ● GK: Gold Karkar ● BT: Blue Telica
2950	26	≤ 114	700	HRM8S32		ST: fascio stretto narrow beam		
3350	30	≤ 112	800	HRM8S33		MD: fascio medio medium beam LA: fascio largo wide beam		



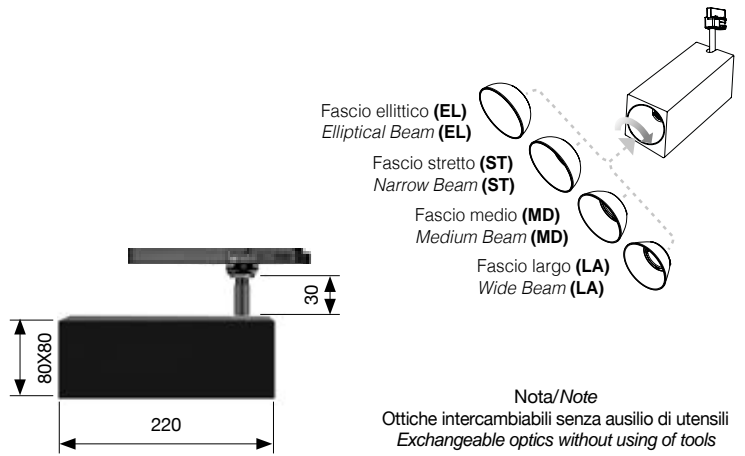
A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	1.0	1	0.8
2	0.5	2	0.9	2	2.0	2	1.6
3	1.7	3	1.3	3	2.8	3	2.5
4	1.0	4	1.8	4	4.0	4	3.3
5	1.2	5	2.2	5	5.0	5	4.2



Nota/Note  
 Ottiche intercambiabili senza ausilio di utensili  
 Exchangeable optics without using of tools

# VALE S

## FASCIO/BEAM/FAISCEAU/HAZ EL | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.  
 Projecteur LED orientable sur rail avec optiques échangeables.  
 Proyector LED orientable de carril con ópticas intercambiables.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio ellittico (cod. EL). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con alimentazione integrata nell'adattatore ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Extruded aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) elliptical beam (code EL). LED light source. Direct light emission. Track mounting system with built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium extrudé avec traitement époxy. Dissipateur en aluminium extrudé. Optique en polycarbonate métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau elliptique (réf. EL). Source lumineuse LED. Emission directe. Système de fixation sur rail avec alimentation intégrée dans l'adaptateur ON/OFF. Sur demande: dimmable DALI (réf. DL).

Cuerpo de aluminio extruido recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz elíptico (cód. EL). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril con alimentación integrada en el adaptador ON/OFF. A pedido: regulación DALI (cód. DL).



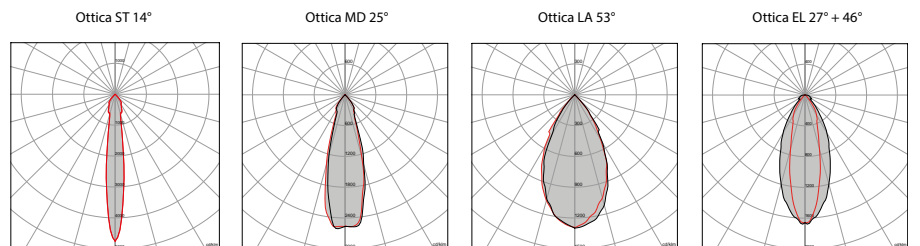
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2150	18	≤ 120	500	HRVAS1	WW: 2700 W:3000 X:3500 N:4000	EL: fascio ellittico elliptical beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
2950	26	≤ 114	700	HRVAS2		ST: fascio stretto narrow beam		
3350	30	≤ 112	800	HRVAS3		MD: fascio medio medium beam  LA: fascio largo wide beam		



A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	1.0	1	0.8
2	0.5	2	0.9	2	2.0	2	1.6
3	1.7	3	1.3	3	2.8	3	2.5
4	1.0	4	1.8	4	4.0	4	3.3
5	1.2	5	2.2	5	5.0	5	4.2



BEBA I

LERICA I

MUSE 80 I

MUSE 50 I

VALE I

Proiettori LED per il retail con alimentatore integrato nel corpo lampada. Performance illuminotecniche nettamente superiori all'attuale generazione di lampade LED.

*LED projectors for retail with built-in driver in the body. Lighting performance definitely higher compared the others LED fixtures in the market nowadays.*

*Projecteurs LED pour le secteur retail avec alimentateur intégré au corps. Performance d'éclairage nettement supérieure à celle des autres appareils LED existants sur le marché.*

*Proyectoros LED para el Retail con alimentación integrada en el cuerpo. Rendimiento de iluminación mejor que los otros dispositivos LED del mercado actual.*

## PROIETTORI A BINARIO

TRACK PROJECTORS  
PROJECTEUR SUR RAIL  
PROYECTOR DE CARRIL

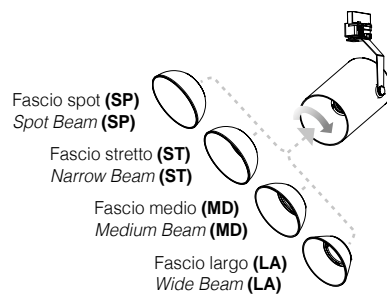
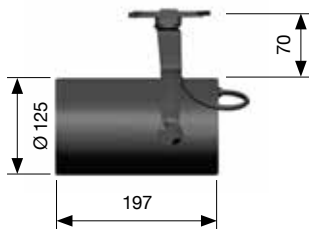


UNO DEI PIÙ  
GRANDI  
PROGETTI STRAORDINARIO

*progettato*







Nota/Note  
Ottiche intercambiabili senza ausilio di utensili  
Exchangeable optics without using of tools

# BEBA I

## FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
Adjustable track-mounted LED projector, exchangeable optics.  
Projecteur LED orientable sur rail avec optiques échangeables.  
Proyector LED orientable de carril con ópticas intercambiables.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario (adattatore incluso). Alimentazione elettronica integrata nel corpo lampada ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Extruded aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Track mounting system (adapter included). Built-in electronic driver in the body ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium extrudé avec traitement époxy. Dissipateur en aluminium extrudé. Optique en polycarbonate métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Système de fixation sur rail (adaptateur inclus). Alimentation électronique ON/OFF intégrée. Sur demande: dimmable DALI (réf. DL).

Cuerpo de aluminio extruido recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril (adaptador incluido). Alimentación electrónica integrada ON/OFF. A pedido: regulación DALI (cód. DL).

5Y WARRANTY 5% FAILURE RATE | 60.000 h LED LIFETIME L90B10 | 100.000 h LED LIFETIME L70B50 | RIPPLE FREE

Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2550	22	≤ 116	600	HRBAI1	WW: 2700 W: 3000 X: 3500 N: 4000	SP: fascio spot spot beam	-: ON/OFF DL: DALI	<b>Standard:</b> ● <b>WL:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
2950	26	≤ 114	700	HRBAI2		ST: fascio stretto narrow beam		
3350	30	≤ 112	800	HRBAI3		MD: fascio medio medium beam LA: fascio largo wide beam		

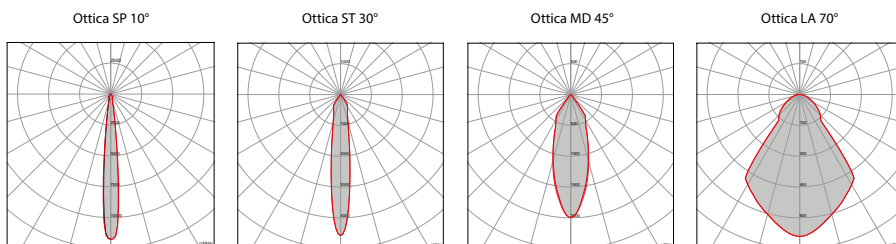
CE | IP44 | >90 CRI | 3SDCM | IK 07 | 230 V | 50/60 Hz | 850° | RG 0 | DALI | DIM W | >80 CRI | >95 CRI | VIVID PLUS | VEG PLUS | WHITE PLUS | MEAT PLUS | BK

A richiesta | On request

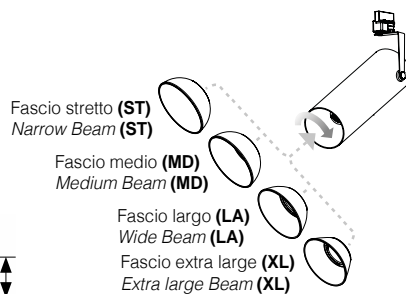
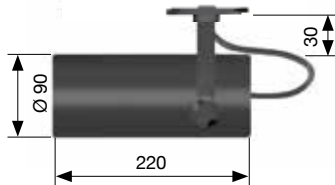
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

Base per fissaggio a parete codice BK  
Wall mounting base cod. BK



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.2	1	0.5	1	0.8	1	1.4
2	0.3	2	1.0	2	1.6	2	2.8
3	0.5	3	1.6	3	2.5	3	4.2
4	0.7	4	2.1	4	3.3	4	5.6
5	0.8	5	2.7	5	4.2	5	7.0



Nota/Note  
 Ottiche intercambiabili senza ausilio di utensili  
 Exchangeable optics without using of tools

# LERICA I

FASCIO/BEAM/FAISCEAU/HAZ ST|ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.  
 Projecteur LED orientable sur rail avec optiques échangeables.  
 Proyector LED orientable de carril con ópticas intercambiables.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio extra largo (cod. XL) fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario (adattatore incluso). Alimentazione elettronica integrata nel corpo lampada ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Extruded aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Metallized polycarbonate louver extra large beam (cod. XL) wide beam (code LA) medium beam (code MD) narrow beam (code ST). LED light source. Direct light emission. Track mounting system (adapter included). Built-in electronic driver in the body ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium extrudé avec traitement époxy. Dissipateur en aluminium extrudé. Optique en polycarbonate métallisé à faisceau extra large (code XL) faisceau large (code LA) faisceau moyen (code MD) faisceau étroit (code ST). Source lumineuse LED. Emission directe. Système de fixation sur rail (adaptateur inclus). Alimentation électronique ON/OFF intégrée. Sur demande: dimmable DALI (code DL)

Cuerpo de aluminio extruido recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica de policarbonato metalizado de haz extra amplio (cód. XL) haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril (adaptador incluido). Alimentación electrónica integrada ON/OFF. A pedido: regulación DALI (cód. DL).



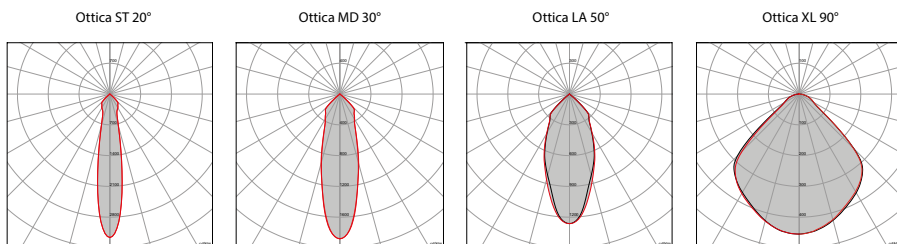
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2150	18	≤ 120	500	HLAI1	WW: 2700 W:3000 X:3500 N:4000	ST: fascio stretto narrow beam	-: ON/OFF DL: DALI	<b>Standard:</b> ● <b>WL:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
2950	26	≤ 114	700	HLAI2		MD: fascio medio medium beam		
3350	30	≤ 112	800	HLAI3		LA: fascio largo wide beam XL: fascio extra large extra large beam		



A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

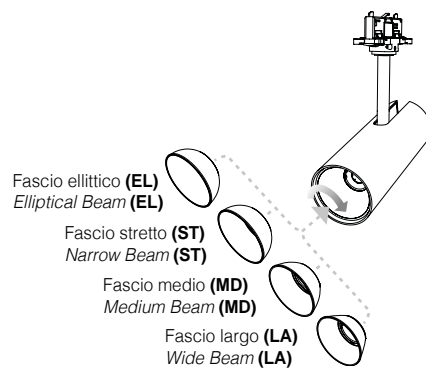
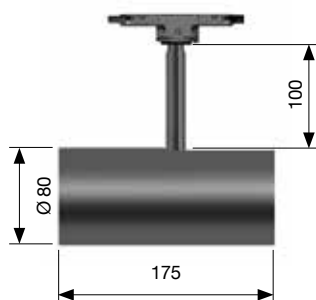
Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%



Base per fissaggio a parete codice BK  
 Wall mounting base cod. BK



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.5	1	0.9	1	2.0
2	0.7	2	1.0	2	1.9	2	4.0
3	1.0	3	1.6	3	2.8	3	6.0
4	1.4	4	2.1	4	3.7	4	8.0
5	1.7	5	2.7	5	4.7	5	10



Nota/Note  
Ottiche intercambiabili senza ausilio di utensili  
Exchangeable optics without using of tools

# MUSE 80 I

FASCIO/BEAM/FAISCEAU/HAZ EL | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
Adjustable track-mounted LED projector, exchangeable optics.  
Projecteur LED orientable sur rail avec optiques échangeables.  
Projector LED orientable de carril con ópticas intercambiables.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio ellittico (cod. EL). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario (adattatore incluso). Alimentazione elettronica integrata nel corpo lampada ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Extruded aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) elliptical beam (code EL). LED light source. Direct light emission. Track mounting system (adapter included). Built-in electronic driver in the body ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium extrudé avec traitement époxy. Dissipateur en aluminium extrudé. Optique en polycarbonate métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau elliptique (réf. EL). Source lumineuse LED. Emission directe. Système de fixation sur rail (adaptateur inclus). Alimentation électronique ON/OFF intégrée. Sur demande: dimmable DALI (réf. DL).

Cuerpo de aluminio extruido recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz elíptico (cód. EL). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril (adaptador incluido). Alimentación electrónica integrada ON/OFF. A pedido: regulación DALI (cód. DL).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2150	18	≤ 120	500	HRM811	WW: 2700 W:3000 X:3500 N:4000	EL: fascio ellittico elliptical beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
2550	22	≤ 114	600	HRM812		ST: fascio stretto narrow beam		
2950	26	≤ 112	700	HRM813		MD: fascio medio medium beam  LA: fascio largo wide beam		

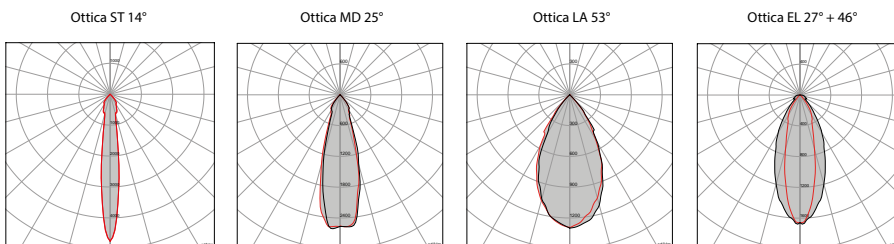


A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

Base per fissaggio a parete codice BK  
Wall mounting base cod. BK



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	1.0	1	0.8
2	0.5	2	0.9	2	2.0	2	1.6
3	1.7	3	1.3	3	2.8	3	2.5
4	1.0	4	1.8	4	4.0	4	3.3
5	1.2	5	2.2	5	5.0	5	4.2

SAMSUNG

la smart,  
asa



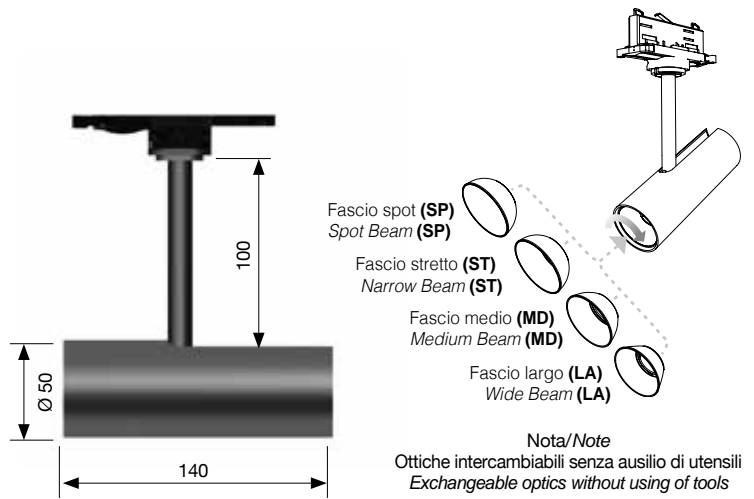
ALESSI

ALCANTARA

Coccolati tutto l'anno  
nella tua nuova casa.







Nota/Note  
Ottiche intercambiabili senza ausilio di utensili  
Exchangeable optics without using of tools

# MUSE 50 I

FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
Adjustable track-mounted LED projector, exchangeable optics.  
Projecteur LED orientable sur rail avec optiques échangeables.  
Proyector LED orientable de carril con ópticas intercambiables.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con adattatore incluso. Alimentazione elettronica integrata nel corpo lampada ON/OFF. A richiesta dimmerabile DALI (cod. DL) solo con basetta e alimentazione remota.

Extruded aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Track mounting system (adapter included). Built-in electronic driver in the body ON/OFF. On request dimmable DALI (code DL) only with base and remote power supply.

Corps en aluminium extrudé avec traitement époxy. Dissipateur en aluminium extrudé. Optique en polycarbonate métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Système de fixation sur rail (adaptateur inclus). Alimentation électronique ON/OFF intégrée dans le corps de la lampe. Sur demande dimmable DALI (code DL) uniquement avec base et alimentation à distance.

Cuerpo de aluminio extruido recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril (adaptador incluido). Alimentación electrónica integrada ON/OFF en el cuerpo de la lámpara. Bajo pedido regulable DALI (código DL) sólo con base y alimentación remota.

5Y WARRANTY 5% FAILURE RATE | 60.000 h LED LIFETIME L90B10 | 100.000 h LED LIFETIME L70B50 | RIPPLE FREE

Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
890	7	≤ 127	200	HRM511	SP: fascio spot spot beam	WW: 2700 W: 3000 X: 3500 N: 4000	-: ON/OFF  DL: DALI	<b>Standard:</b> ● WI: White Irazu ● BLL: Black Lava <b>Su richiesta / On request:</b> ● SB: Silver Bombalai ● BL: Bronze Lario ● RR: Rust Rame ● BF: Beige Futura ● GK: Gold Karkar ● BT: Blue Telica
1100	9	≤ 122	250	HRM512	ST: fascio stretto narrow beam			
1550	13	≤ 119	350	HRM513	MD: fascio medio medium beam			
					LA: fascio largo wide beam			

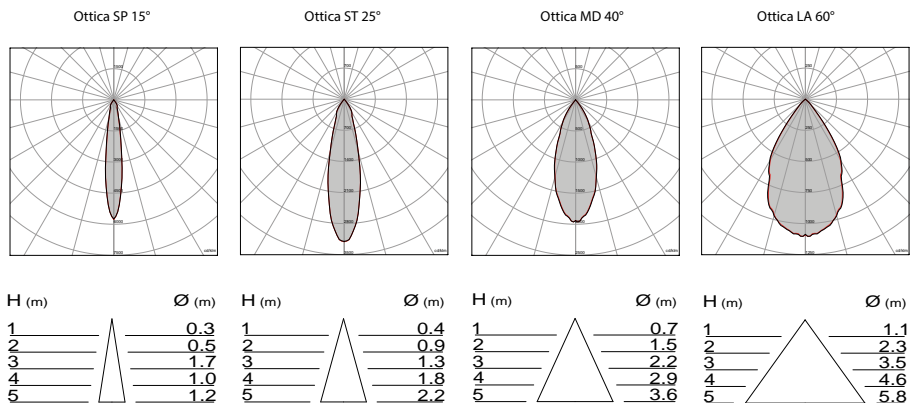
CE | >90 CRI | 3SDCM | IP40 EN 60529 | IK 07 EN 60068 | 230 V 2014/25/UE | 50/60 Hz | 850° EN 60695 | RG 0 EN 62471 | DALI | DIM W | >80 CRI | >95 CRI | VIVID PLUS | VEG PLUS | WHITE PLUS | MEAT PLUS | BK

A richiesta | On request

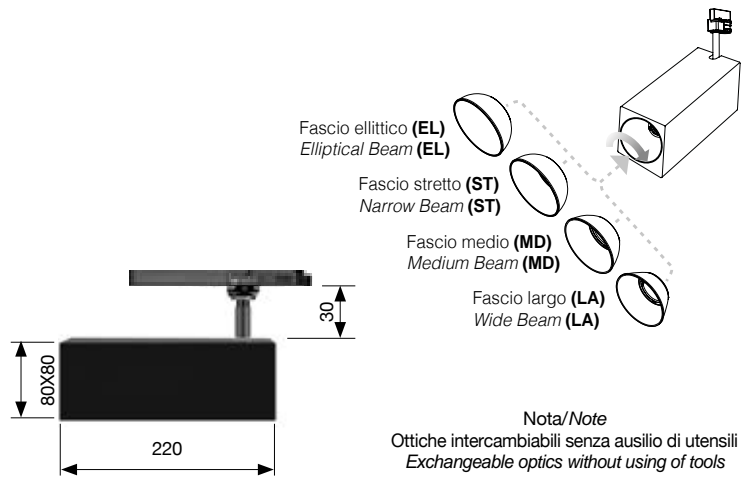
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

Base per fissaggio a parete codice BK  
Wall mounting base cod. BK







# VALE I

## FASCIO/BEAM/FAISCEAU/HAZ EL | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
Adjustable track-mounted LED projector, exchangeable optics.  
Projecteur LED orientable sur rail avec optiques échangeables.  
Projector LED orientable de carril con ópticas intercambiables.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio ellittico (cod. EL). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario (adattatore incluso). Alimentazione elettronica integrata nel corpo lampada ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Extruded aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) elliptical beam (code EL). LED light source. Direct light emission. Track mounting system (adapter included). Built-in electronic driver in the body ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium extrudé avec traitement époxy. Dissipateur en aluminium extrudé. Optique en polycarbonate métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Système de fixation sur rail (adaptateur inclus). Alimentation électronique ON/OFF intégrée dans le corps de la lampe. Sur demande: dimmable DALI (réf. DL).

Cuerpo de aluminio extruido recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril (adaptador incluido). Alimentación electrónica integrada ON/OFF en el cuerpo de la lámpara. A pedido: regulación DALI (cód. DL).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2150	18	≤ 120	500	HRVAI1	WW: 2700 W: 3000 X: 3500 N: 4000	EL: fascio ellittico elliptical beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● <b>W1:</b> White Irazu ● <b>BLL:</b> Black Lava  <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
2550	22	≤ 114	600	HRVAI2		ST: fascio stretto narrow beam		
2950	26	≤ 112	700	HRVAI3		MD: fascio medio medium beam  LA: fascio largo wide beam		

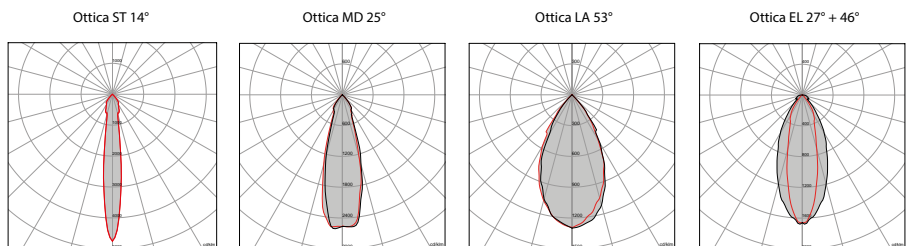


A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

Base per fissaggio a parete codice BK  
Wall mounting base cod. BK



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	1.0	1	0.8
2	0.5	2	0.9	2	2.0	2	1.6
3	1.7	3	1.3	3	2.8	3	2.5
4	1.0	4	1.8	4	4.0	4	3.3
5	1.2	5	2.2	5	5.0	5	4.2



MUSE R PS/10

MUSE R PS/3

MUSE 56 PS/10

MUSE 56 PS/3

MUSE 54 PS/10

MUSE 55 S/3

MUSE 55 LENS S/10

MUSE 55 LENS S/3

MUSE 55 LENS IN

MUSE 55 LENS UP

Proiettori LED per il retail con alimentatore integrato a binario.  
Performance illuminotecniche nettamente superiori all'attuale  
generazione di lampade LED.

*LED projectors for retail with built-in driver in the track.  
Lighting performance definitely higher compared to the  
others LED fixtures in the market nowadays.*

*Projecteur LED pour le secteur retail avec faisceau ajustable.  
Performance d'éclairage nettement supérieure à celle des  
autres appareils LED existants sur le marché.*

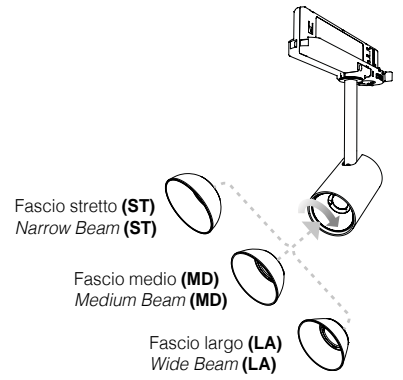
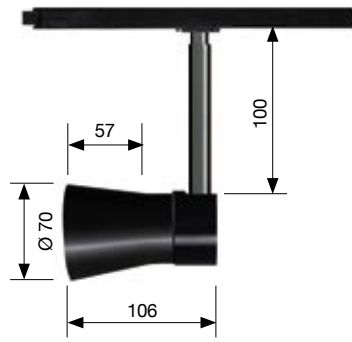
*Proyector Led para el Retail con haz regulable.  
Rendimiento de iluminación mejor que los otros dispositivos  
LED del mercado actual.*

## PROIETTORI A BINARIO

TRACK PROJECTORS  
PROJECTEUR SUR RAIL  
PROYECTOR DE CARRIL







Nota/Note  
 Ottiche intercambiabili  
 Exchangeable optics

# MUSE R PS/10

FASCIO/BEAM/FAISCEAU/HAZ ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.  
 Projecteur LED orientable sur rail avec optiques échangeables.  
 Proyector LED orientable de carril con ópticas intercambiables.

Corpo in alluminio con funzione di dissipatore verniciato con polveri epossidiche previa fosfatizzazione. Ottica retratta di mm 57 in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con alimentazione integrata nell'adattatore ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Aluminium body with heatsink function painted with epoxy powders after phosphating. Lenticular polycarbonate louver set back of 57 mm, wide beam (code LA), medium beam (code MD), narrow beam (code ST). LED light source. Direct light emission. Track mounting system with built-in electronic driver ON/OFF. On request: dimmerable DALI (code DL).

Corps en aluminium réalisé par usinage lui donnant la propriété de dissipateur, avec traitement époxy. Optique lenticulaire en retrait de 57mm en polycarbonate à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST). Source lumineuse LED. Emission directe. Système de fixation sur rail avec alimentation intégrée dans l'adaptateur ON/OFF. Sur demande: dimmerable DALI (réf. DL).

Cuerpo de aluminio con función de disipador y recubierto con polvo epoxi previamente fosfatado. Óptica retraída de 57mm de policarbonato lenticular de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST). Fuente de iluminación LED. Sistema de fijación con carril con alimentación integrada en el adaptator ON/OFF. A pedido: regulación DALI (cód. DL).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1100	9	≤ 122	250	HRMRP11	WW: 2700 W:3000 X:3500 N:4000	ST: fascio stretto narrow beam	-: ON/OFF DL: DALI	<b>Standard:</b> ● <b>W1:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
1550	13	≤ 119	350	HRMRP12		MD: fascio medio medium beam		
2150	18,5	≤ 116	500	HRMRP13		LA: fascio largo wide beam		



A richiesta | On request

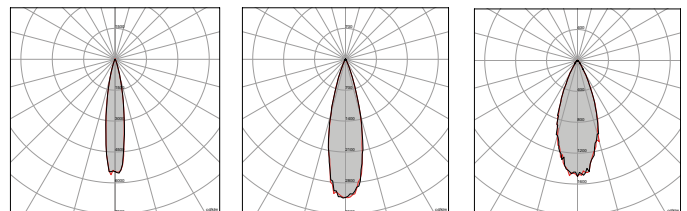
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

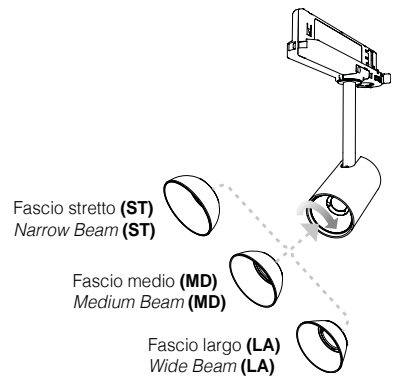
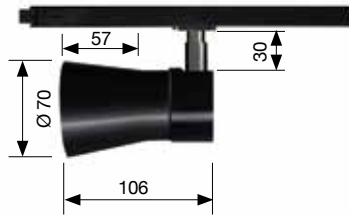
Ottica ST 12°

Ottica MD 25°

Ottica LA 38°



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.2	1	0.4	1	0.7
2	0.4	2	0.8	2	1.4
3	0.6	3	1.3	3	2.1
4	0.8	4	1.7	4	2.7
5	1.0	5	2.1	5	3.4



Nota/Note  
 Ottiche intercambiabili  
 Exchangeable optics

# MUSE R PS/3

FASCIO/BEAM/FAISCEAU/HAZ ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.  
 Projecteur LED orientable sur rail avec optiques échangeables.  
 Proyector LED orientable de carril con ópticas intercambiables.

Corpo in alluminio con funzione di dissipatore verniciato con polveri epossidiche previa fosfatizzazione. Ottica retratta di mm 57 in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con alimentazione integrata nell'adattatore ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Aluminium body with heatsink function painted with epoxy powders after phosphating. Lenticular polycarbonate louver set back of 57 mm, wide beam (code LA), medium beam (code MD), narrow beam (code ST). LED light source. Direct light emission. Track mounting system with built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium réalisé par usinage lui donnant la propriété de dissipateur, avec traitement époxy. Optique lenticulaire en retrait de 57mm en polycarbonate à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST). Source lumineuse LED. Emission directe. Système de fixation sur rail avec alimentation intégrée dans l'adaptateur ON/OFF. Sur demande: dimmable DALI (réf. DL).

Cuerpo de aluminio con función de disipador y recubierto con polvo epoxi previamente fosfatado. Óptica retraída de 57mm de policarbonato lenticular de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST). Fuente de iluminación LED. Sistema de fijación con carril con alimentación integrada en el adaptator ON/OFF. A pedido: regulación DALI (cód. DL).

5Y WARRANTY  
5% FAILURE RATE
60.000 h  
LED LIFETIME L90B10
100.000 h  
LED LIFETIME L70B50
RIPPLE  
FREE

Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1100	9	≤ 122	250	HRMRP31	<b>WW: 2700</b> <b>W:3000</b> <b>X:3500</b> <b>N:4000</b>	<b>ST:</b> fascio stretto narrow beam	-: ON/OFF DL: DALI	<b>Standard:</b> ● <b>W1:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
1550	13	≤ 119	350	HRMRP32		<b>MD:</b> fascio medio medium beam		
2150	18,5	≤ 116	500	HRMRP33		<b>LA:</b> fascio largo wide beam		

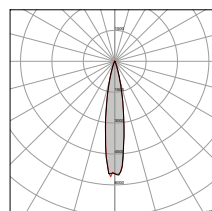
CE
>90 CRI
3SDCM
IP44 EN 60529
IK 07 EN 60668
230 V 2014/25/UE
50/60 Hz
850° EN 60695
RG 0 EN 62471
19 UGR
DALI
DIM W
>80 CRI
>95 CRI
VIVID PLUS
VEG PLUS
WHITE PLUS
MEAT PLUS

A richiesta | On request

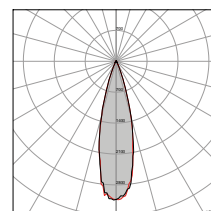
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

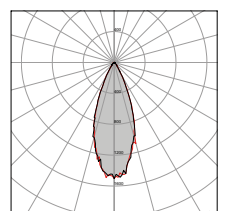
Ottica ST 12°



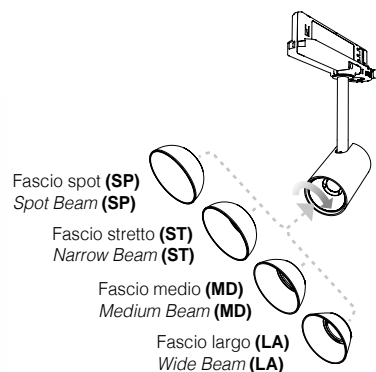
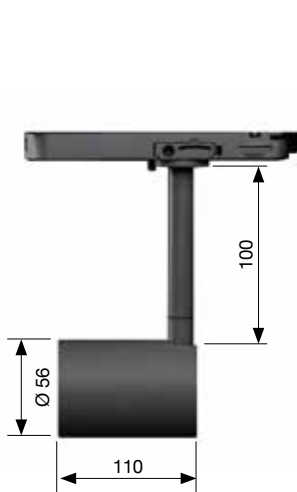
Ottica MD 25°



Ottica LA 38°



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.2	1	0.4	1	0.7
2	0.4	2	0.8	2	1.4
3	0.6	3	1.3	3	2.1
4	0.8	4	1.7	4	2.7
5	1.0	5	2.1	5	3.4



Nota/Note  
Ottiche intercambiabili senza ausilio di utensili  
Exchangeable optics without using of tools

# MUSE 56 PS/10

FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
Adjustable track-mounted LED projector, exchangeable optics.  
Projecteur LED orientable sur rail avec optiques échangeables.  
Projector LED orientable de carril con ópticas intercambiables.

Corpo in estruso d'alluminio lavorato dal pieno con funzione di dissipatore di calore verniciato con polveri epossidiche previa fosfatazione. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con alimentazione integrata nell'adattatore ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Extruded aluminium body machined from solid, with heatsink function, painted with epoxy powders after phosphating. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Track mounting system with built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium extrudé réalisé par usinage lui donnant la propriété de dissipateur, avec traitement époxy. Optique en polycarbonate métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Système de fixation sur rail avec alimentation intégrée dans l'adaptateur ON/OFF. Sur demande: dimmable DALI (réf. DL).

Cuerpo de aluminio extruido mecanizado a partir de sólido con función de disipador y recubierto con polvo epoxi previamente fosfatado. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril con alimentación integrada en el adaptador ON/OFF. A pedido: regulación DALI (cód. DL).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1100	9	≤ 122	250	HRM6P11	WW: 2700 W:3000 X:3500 N:4000	SP: fascio spot spot beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● WI: White Irazu ● BLL: Black Lava <b>Su richiesta / On request:</b> ● SB: Silver Bombalai ● BL: Bronze Lario ● RR: Rust Rame ● BF: Beige Futura ● GK: Gold Karkar ● BT: Blue Telica
1550	13	≤ 119	350	HRM6P12		ST: fascio stretto narrow beam		
2150	18,5	≤ 116	500	HRM6P13		MD: fascio medio medium beam		
2950	26	≤ 114	700	HRM6P14		LA: fascio largo wide beam		

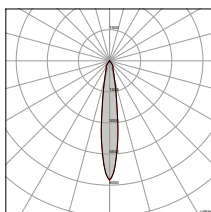


A richiesta | On request

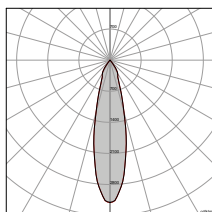
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

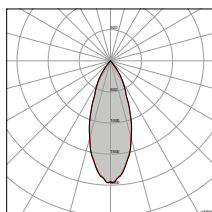
Ottica SP 15°



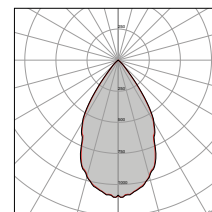
Ottica ST 25°



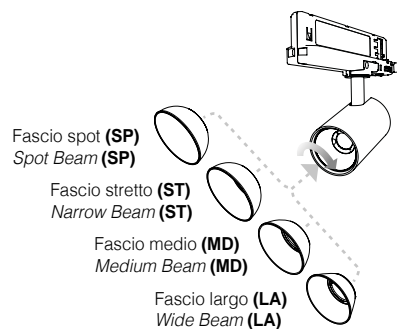
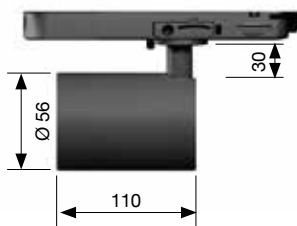
Ottica MD 40°



Ottica LA 60°



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	0.7	1	1.1
2	0.5	2	0.9	2	1.5	2	2.3
3	1.7	3	1.3	3	2.2	3	3.5
4	1.0	4	1.8	4	2.9	4	4.6
5	1.2	5	2.2	5	3.6	5	5.8



Nota/Note  
 Ottiche intercambiabili senza ausilio di utensili  
 Exchangeable optics without using of tools

# MUSE 56 PS/3

FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.  
 Projecteur LED orientable sur rail avec optiques échangeables.  
 Projector LED orientable de carril con ópticas intercambiables.

Corpo in estruso d'alluminio lavorato dal pieno con funzione di dissipatore di calore verniciato con polveri epossidiche previa fosfatazione. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con alimentazione integrata nell'adattatore ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Extruded aluminium body machined from solid, with heatsink function, painted with epoxy powders after phosphating. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Track mounting system with built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium extrudé réalisé par usinage lui donnant la propriété de dissipateur, avec traitement époxy. Optique en polycarbonate métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Système de fixation sur rail avec alimentation intégrée dans l'adaptateur ON/OFF. Sur demande: dimmable DALI (réf. DL).

Cuerpo de aluminio extruido mecanizado a partir de sólido con función de disipador y recubierto con polvo epoxi previamente fosfatado. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril con alimentación integrada en el adaptador ON/OFF. A pedido: regulación DALI (cód. DL).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1100	9	≤ 122	250	HRM6P31	WW: 2700 W:3000 X:3500 N:4000	SP: fascio spot spot beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● WI: White Irazu ● BLL: Black Lava <b>Su richiesta /On request:</b> ● SB: Silver Bombalai ● BL: Bronze Lario ● RR: Rust Rame ● BF: Beige Futura ● GK: Gold Karkar ● BT: Blue Telica
1550	13	≤ 119	350	HRM6P32		ST: fascio stretto narrow beam		
2150	18,5	≤ 116	500	HRM6P33		MD: fascio medio medium beam		
2950	26	≤ 114	700	HRM6P34		LA: fascio largo wide beam		

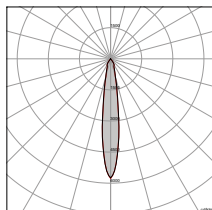


A richiesta | On request

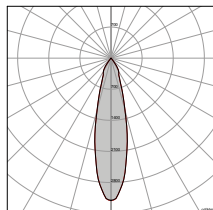
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

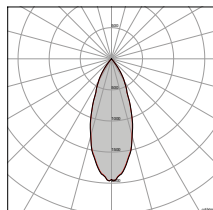
Ottica SP 15°



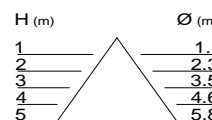
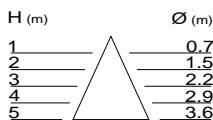
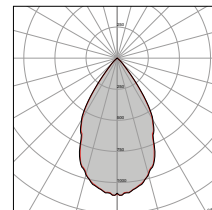
Ottica ST 25°

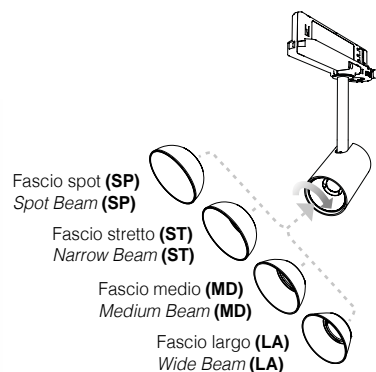
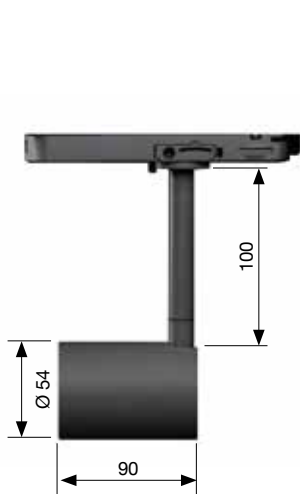


Ottica MD 40°



Ottica LA 60°





Nota/Note  
 Ottiche intercambiabili senza ausilio di utensili  
 Exchangeable optics without using of tools

# MUSE 54 PS/10

FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.  
 Projecteur LED orientable sur rail avec optiques échangeables.  
 Projector LED orientable de carril con ópticas intercambiables.

Corpo in estruso d'alluminio lavorato dal pieno con funzione di dissipatore di calore verniciato con polveri epossidiche previa fosfatazione. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con alimentazione integrata nell'adattatore ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Extruded aluminium body machined from solid, with heatsink function, painted with epoxy powders after phosphating. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Track mounting system with built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium extrudé réalisé par usinage lui donnant la propriété de dissipateur, avec traitement époxy. Optique en polycarbonate métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Système de fixation sur rail avec alimentation intégrée dans l'adaptateur ON/OFF. Sur demande: dimmable DALI (réf. DL).

Cuerpo de aluminio extruido mecanizado a partir de sólido con función de disipador y recubierto con polvo epoxi previamente fosfatao. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril con alimentación integrada en el adaptador ON/OFF. A pedido: regulación DALI (cód. DL).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1100	9	≤ 122	250	HRM5P11	<b>WW: 2700</b> <b>W:3000</b> <b>X:3500</b> <b>N:4000</b>	<b>SP:</b> fascio spot spot beam <b>ST:</b> fascio stretto narrow beam <b>MD:</b> fascio medio medium beam <b>LA:</b> fascio largo wide beam	<b>-:</b> ON/OFF  <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
1550	13	≤ 119	350	HRM5P12				
2150	18,5	≤ 116	500	HRM5P13				

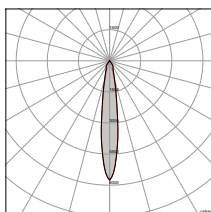


A richiesta | On request

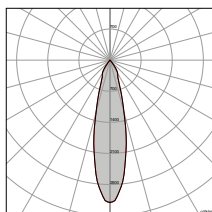
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

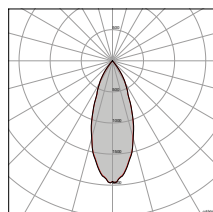
Ottica SP 15°



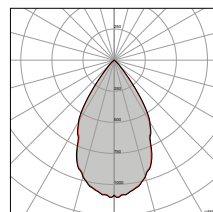
Ottica ST 25°



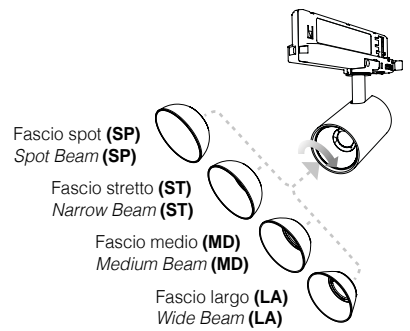
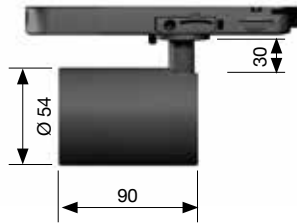
Ottica MD 40°



Ottica LA 60°



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	0.7	1	1.1
2	0.5	2	0.9	2	1.5	2	2.3
3	1.7	3	1.3	3	2.2	3	3.5
4	1.0	4	1.8	4	2.9	4	4.6
5	1.2	5	2.2	5	3.6	5	5.8



Nota/Note  
 Ottiche intercambiabili senza ausilio di utensili  
 Exchangeable optics without using of tools

# MUSE 54 PS/3

FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.  
 Projecteur LED orientable sur rail avec optiques échangeables.  
 Proyector LED orientable de carril con ópticas intercambiables.

Corpo in estruso d'alluminio lavorato dal pieno con funzione di dissipatore di calore verniciato con polveri epossidiche previa fosfatazione. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con alimentazione integrata nell'adattatore ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Extruded aluminium body machined from solid, with heatsink function, painted with epoxy powders after phosphating. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Track mounting system with built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium extrudé réalisé par usinage lui donnant la propriété de dissipateur, avec traitement époxy. Optique en polycarbonate métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Système de fixation sur rail avec alimentation intégrée dans l'adaptateur ON/OFF. Sur demande: dimmable DALI (réf. DL).

Cuerpo de aluminio extruido mecanizado a partir de sólido con función de disipador y recubierto con polvo epoxi previamente fosfatado. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril con alimentación integrada en el adaptador ON/OFF. A pedido: regulación DALI (cód. DL).



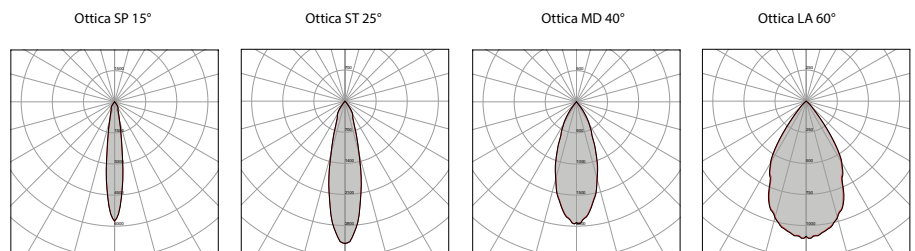
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1100	9	≤ 122	250	HRM5P31	WW: 2700 W:3000 X:3500 N:4000	SP: fascio spot spot beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● <b>Wl:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
1550	13	≤ 119	350	HRM5P32		ST: fascio stretto narrow beam		
2150	18,5	≤ 116	500	HRM5P33		MD: fascio medio medium beam  LA: fascio largo wide beam		



A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	0.7	1	1.1
2	0.5	2	0.9	2	1.5	2	2.3
3	1.7	3	1.3	3	2.2	3	3.5
4	1.0	4	1.8	4	2.9	4	4.6
5	1.2	5	2.2	5	3.6	5	5.8





LA MER

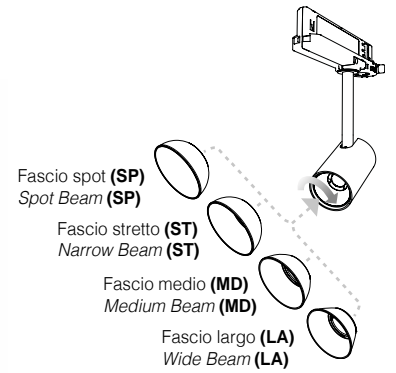
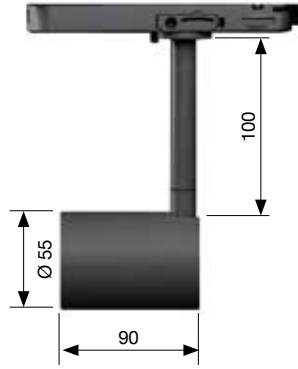
LA MER

sisley

ESTÉE LAUDER

ALPHA K

ALPHA K



Nota/Note  
 Ottiche intercambiabili senza ausilio di utensili  
 Exchangeable optics without using of tools

# MUSE 55 S/10

FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.  
 Projecteur LED orientable sur rail avec optiques échangeables.  
 Projector LED orientable de carril con ópticas intercambiables.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con alimentazione integrata nell'adattatore ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Extruded aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Track mounting system with built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium extrudé avec traitement époxy. Dissipateur en aluminium extrudé. Optique en polycarbonate métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Système de fixation sur rail avec alimentation intégrée dans l'adaptateur ON/OFF. Sur demande: dimmable DALI (réf. DL).

Cuerpo de aluminio extruido recubierto con polvo epoxi previamente fosfatado. Dissipador de aluminio extruido. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril con alimentación integrada en el adaptador ON/OFF. A pedido: regulación DALI (cód. DL).

5Y WARRANTY 5% FAILURE RATE | 60.000 h LED LIFETIME L90B10 | 100.000 h LED LIFETIME L70B50 | RIPPLE FREE

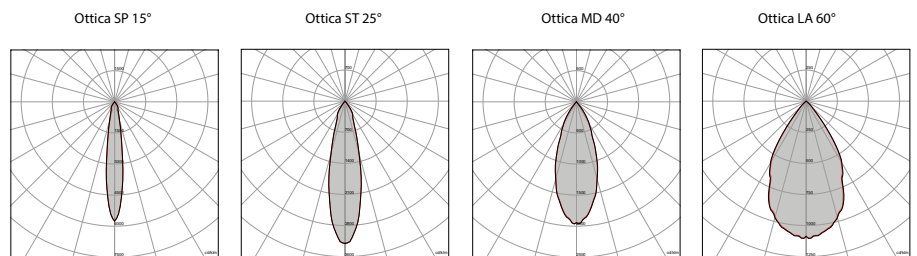
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1100	9	≤ 122	250	HRM6S11	WW: 2700 W:3000 X:3500 N:4000	SP: fascio spot spot beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● <b>Wl:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
1550	13	≤ 119	350	HRM6S12		ST: fascio stretto narrow beam		
2150	18,5	≤ 116	500	HRM6S13		MD: fascio medio medium beam  LA: fascio largo wide beam		

CE | >90 CRI | 3SDCM | IP44 | IK 07 | 230 V | 50/60 Hz | 850° | DALI | RG 0 | DL | DIM W | >80 CRI | >95 CRI | VIVID PLUS | VEG PLUS | WHITE PLUS | MEAT PLUS

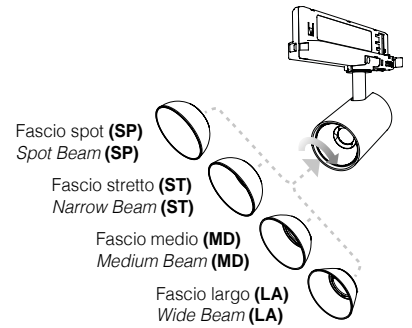
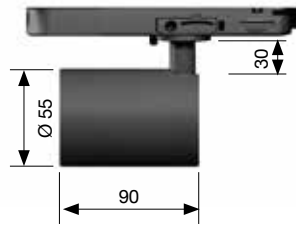
A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	0.7	1	1.1
2	0.5	2	0.9	2	1.5	2	2.3
3	1.7	3	1.3	3	2.2	3	3.5
4	1.0	4	1.8	4	2.9	4	4.6
5	1.2	5	2.2	5	3.6	5	5.8



**Nota/Note**  
 Ottiche intercambiabili senza ausilio di utensili  
 Exchangeable optics without using of tools

# MUSE 55 S/3

FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.  
 Projecteur LED orientable sur rail avec optiques échangeables.  
 Projector LED orientable de carril con ópticas intercambiables.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con alimentazione integrata nell'adattatore ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Extruded aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Track mounting system with built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium extrudé avec traitement époxy. Dissipateur en aluminium extrudé. Optique en polycarbonate métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Système de fixation sur rail avec alimentation intégrée dans l'adaptateur ON/OFF. Sur demande: dimmable DALI (réf. DL).

Cuerpo de aluminio extruido recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril con alimentación integrada en el adaptador ON/OFF. A pedido: regulación DALI (cód. DL).



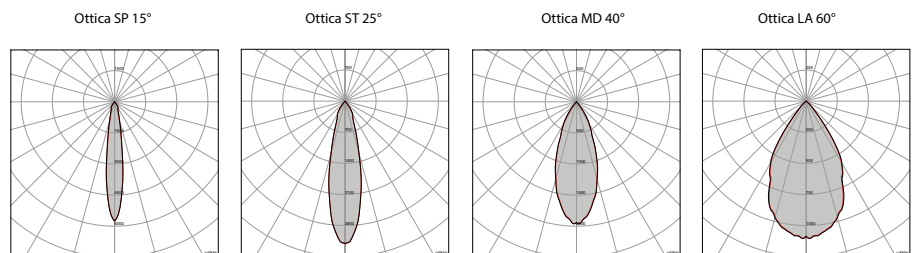
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1100	9	≤ 122	250	HRM6S31	WW: 2700 W: 3000 X: 3500 N: 4000	SP: fascio spot spot beam ST: fascio stretto narrow beam MD: fascio medio medium beam LA: fascio largo wide beam	-: ON/OFF DL: DALI	Standard: ● WI: White Irazu ● BLL: Black Lava Su richiesta / On request: ● SB: Silver Bombalai ● BL: Bronze Lario ● RR: Rust Rame ● BF: Beige Futura ● GK: Gold Karkar ● BT: Blue Telica
1550	13	≤ 119	350	HRM6S32				
2150	18,5	≤ 116	500	HRM6S33				



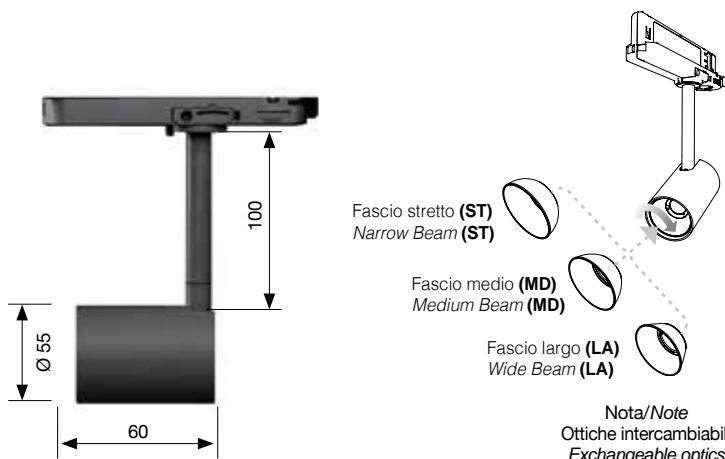
A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	0.7	1	1.1
2	0.5	2	0.9	2	1.5	2	2.3
3	1.7	3	1.3	3	2.2	3	3.5
4	1.0	4	1.8	4	2.9	4	4.6
5	1.2	5	2.2	5	3.6	5	5.8



# MUSE 55 LENS S/10

FASCIO/BEAM/FAISCEAU/HAZ ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
Adjustable track-mounted LED projector, exchangeable optics.  
Projecteur LED orientable sur rail avec optiques échangeables.  
Projector LED orientable de carril con ópticas intercambiables.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con alimentazione integrata nell'adattatore ON/OFF. A richiesta dimmerabile DALI (cod. DL).

Extruded aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST). LED light source. Direct light emission. Track mounting system with built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium extrudé avec traitement époxy. Dissipateur en aluminium extrudé. Optique lenticulaire en polycarbonate à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST). Source lumineuse LED. Emission directe. Système de fixation sur rail avec alimentation intégrée dans l'adaptateur ON/OFF. Sur demande: dimmable Dali (réf. DL).

Cuerpo de aluminio extruido con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica lenticular de policarbonato de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril con alimentación integrada en el adaptator ON/OFF. A pedido: regulación DALI (cód. DL).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1100	9	≤ 122	250	HRM6L11	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	<b>ST:</b> fascio stretto narrow beam <b>MD:</b> fascio medio medium beam <b>LA:</b> fascio largo wide beam	-: ON/OFF DL: DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BL:</b> Black Lava <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
1550	13	≤ 119	350	HRM6L12				
2150	18,5	≤ 116	500	HRM6L13				



A richiesta | On request

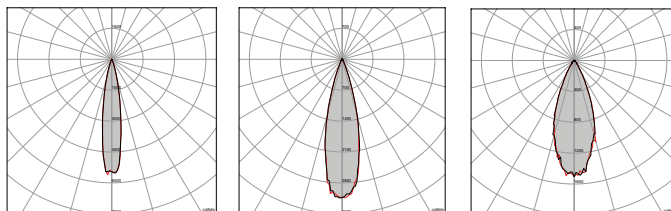
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

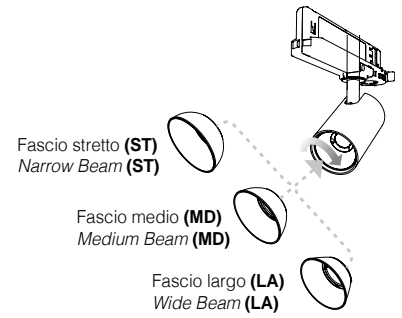
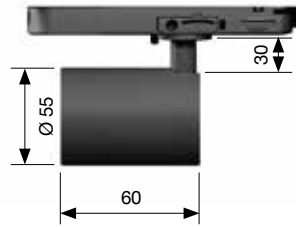
Ottica ST 12°

Ottica MD 25°

Ottica LA 38°



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.2	1	0.4	1	0.7
2	0.4	2	0.8	2	1.4
3	0.6	3	1.3	3	2.1
4	0.8	4	1.7	4	2.7
5	1.0	5	2.1	5	3.4



Nota/Note  
Ottiche intercambiabili  
Exchangeable optics

# MUSE 55 LENS S/3

FASCIO/BEAM/FAISCEAU/HAZ ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
Adjustable track-mounted LED projector, exchangeable optics.  
Projecteur LED orientable sur rail avec optiques échangeables.  
Projector LED orientable de carril con ópticas intercambiables.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con alimentazione integrata nell'adattatore ON/OFF. A richiesta dimmerabile DALI (cod. DL).

Extruded aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST). LED light source. Direct light emission. Track mounting system with built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium extrudé avec traitement époxy. Dissipateur en aluminium extrudé. Optique lenticulaire en polycarbonate à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST). Source lumineuse LED. Emission directe. Système de fixation sur rail avec alimentation intégrée dans l'adaptateur ON/OFF. Sur demande: dimmable Dali (réf. DL).

Cuerpo de aluminio extruido con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica lenticular de policarbonato de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril con alimentación integrada en el adaptador ON/OFF. A pedido: regulación DALI (cód. DL).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1100	9	≤ 122	250	HRM6L31	WW: 2700 W:3000 X:3500 N:4000	ST: fascio stretto narrow beam	-: ON/OFF DL: DALI	<b>Standard:</b> ● <b>WL:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
1550	13	≤ 119	350	HRM6L32		MD: fascio medio medium beam		
2150	18,5	≤ 116	500	HRM6L33		LA: fascio largo wide beam		

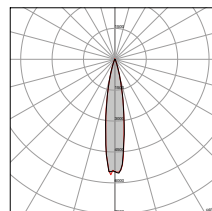


A richiesta | On request

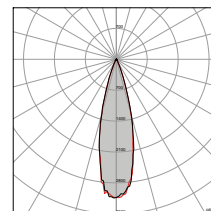
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90.  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90.  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

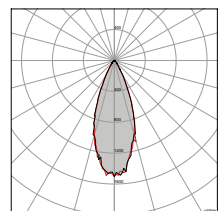
Ottica ST 12°



Ottica MD 25°



Ottica LA 38°



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.2	1	0.4	1	0.7
2	0.4	2	0.8	2	1.4
3	0.6	3	1.3	3	2.1
4	0.8	4	1.7	4	2.7
5	1.0	5	2.1	5	3.4



Cartier

Chloé

DOUCE & GABBANA

GUCCI

HERMÈS

Cartier

Chloé

DOUCE & GABBANA

GUCCI

Cartier

Chloé

DOUCE & GABBANA

GUCCI

BURBERRY

Chloé

DOUCE & GABBANA

GUCCI

BURBERRY

COACH

DOUCE & GABBANA

GUERLAN

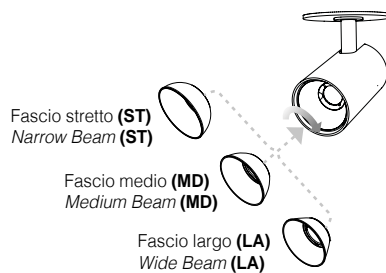
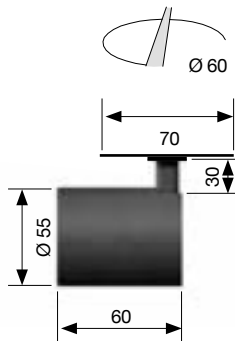
CLINIQUE

COACH

GIVENCHY

GUERLAN

KENZO



Nota/Note  
 Ottiche intercambiabili  
 Exchangeable optics

# MUSE 55 LENS IN

FASCIO/BEAM/FAISCEAU/HAZ ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.  
 Projecteur LED orientable sur rail avec optiques échangeables.  
 Projector LED orientable de carril con ópticas intercambiables.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio in controsoffitto. Alimentazione esterna ON/OFF. A richiesta dimmerabile DALI (cod. DL).

Extruded aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) LED light source. Direct light emission. False ceiling mounting system. External electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium extrudé avec traitement époxy. Dissipateur en aluminium extrudé. Optique lenticulaire en polycarbonate à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST). Source lumineuse LED. Emission directe. Système de fixation en faux plafond. Alimentation ON/OFF externe. Sur demande: dimmable DALI (réf. DL).

Cuerpo de aluminio extruido con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica lenticular de policarbonato de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST). Fuente de iluminación LED. Emisión directa. Sistema de fijación para falso techo. Alimentación ON/OFF externa. A pedido: regulación DALI (cód. DL).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1100	9	≤ 122	250	HRM6LI1	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	<b>ST:</b> fascio stretto narrow beam	-: ON/OFF  <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava  <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
1550	13	≤ 119	350	HRM6LI2		<b>MD:</b> fascio medio medium beam		
2150	18,5	≤ 116	500	HRM6LI3		<b>LA:</b> fascio largo wide beam		

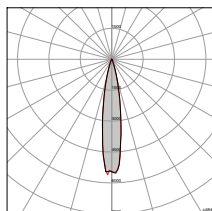


A richiesta | On request

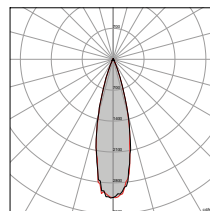
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

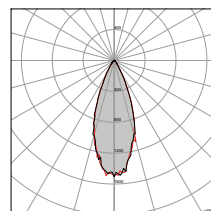
Ottica ST 12°



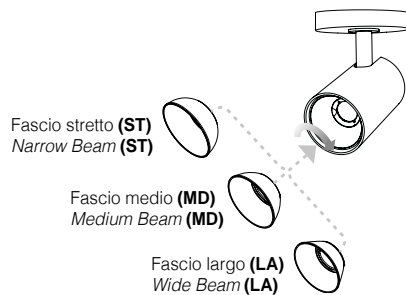
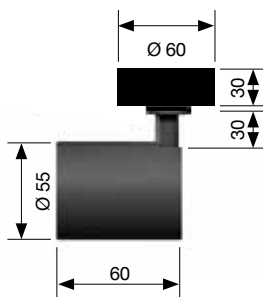
Ottica MD 25°



Ottica LA 38°



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.2	1	0.4	1	0.7
2	0.4	2	0.8	2	1.4
3	0.6	3	1.3	3	2.1
4	0.8	4	1.7	4	2.7
5	1.0	5	2.1	5	3.4



Nota/Note  
 Otliche intercambiabili  
 Exchangeable optics

# MUSE 55 LENS UP

FASCIO/BEAM/FAISCEAU/HAZ ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.  
 Projecteur LED orientable sur rail avec optiques échangeables.  
 Projector LED orientable de carril con ópticas intercambiables.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a plafone. Alimentazione integrata nella basetta ON/OFF. A richiesta dimmerabile DALI (cod. DL), alimentatore esterno.

Extruded aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) LED light source. Direct light emission. Ceiling mounting system. Electronic driver built-in the mounting base ON/OFF. On request: dimmable DALI (code DL). External driver.

Corps en aluminium extrudé avec traitement époxy. Dissipateur en aluminium extrudé. Optique lenticulaire en polycarbonate à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST). Source lumineuse LED. Emission directe. Système de fixation au plafond. Alimentation ON/OFF intégrée dans la base. Sur demande: fimmable DALI (réf. DL), alimentateur externe.

Cuerpo de aluminio extruido con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica lenticular de policarbonato de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST). Fuente de iluminación LED. Emisión directa. Sistema de fijación para falso techo. Alimentación ON/OFF integrada en la placa. A pedido: regulación DALI (cód. DL), balastro externo

**5Y WARRANTY**  
 5% FAILURE RATE

**60.000 h**  
 LED LIFETIME L90B10

**100.000 h**  
 LED LIFETIME L70B50

**RIPPLE FREE**

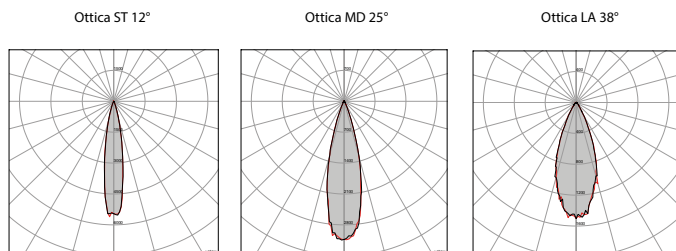
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1100	9	≤ 122	250	HRM6UP1	<b>WW: 2700</b> <b>W:3000</b> <b>X:3500</b> <b>N:4000</b>	<b>ST:</b> fascio stretto <i>narrow beam</i>	-: ON/OFF  <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava
1550	13	≤ 119	350	HRM6UP2		<b>MD:</b> fascio medio <i>medium beam</i>		<b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalio ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
2150	18,5	≤ 116	500	HRM6UP3		<b>LA:</b> fascio largo <i>wide beam</i>		

CE, >90 CRI, 3SDCM, IP44, IK 07, 230 V, 50/60 Hz, 850°, DALI, RG 0, >80 CRI, >95 CRI, VIVID PLUS, VEG PLUS, WHITE PLUS, MEAT PLUS

A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.2	1	0.4	1	0.7
2	0.4	2	0.8	2	1.4
3	0.6	3	1.3	3	2.1
4	0.8	4	1.7	4	2.7
5	1.0	5	2.1	5	3.4



SOO TRACK

SOTTILE TRACK

MINI ALGEBRA TRACK

MINI ALGEBRA

Plafoniere LED lineari con attacco a binario per il retail.  
Performance illuminotecniche nettamente superiori all'attuale  
generazione di lampade LED.

*Linear ceiling mounted LED lighting fitting with track  
connection.*

*Lighting performance clearly superior to the current generation  
of LED lighting fittings.*

*Plafonniers linéaires LED avec système de fixation sur rail.  
Performance d'éclairage nettement supérieure à l'actuelle  
génération des appareils à LED.*

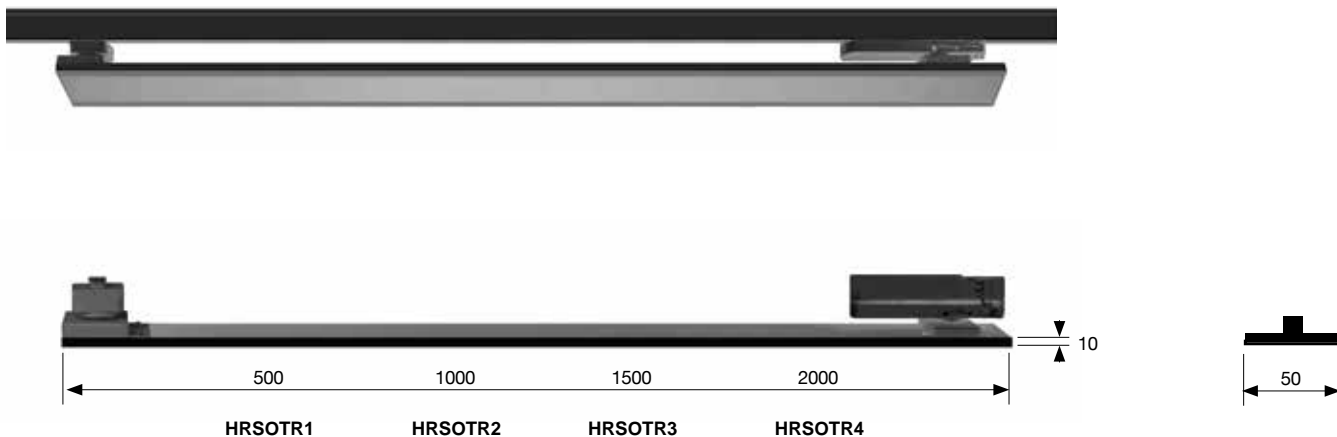
*Luminarias lineales LED con fijación a carril para el Retail.  
Rendimiento de iluminación mejor que los otros dispositivos LED  
del mercado actual.*

**SISTEMA LINEARE A BINARIO**

TRACK LINEAR SYSTEM  
SYSTÈME LINÉAIRE SUR RAIL  
SISTEMA LINEAL DE CARRIL







# SOO TRACK

## SCHERMO/DIFFUSER/DIFFUSEUR/DIFUSOR OP | MP

Sistema lineare a binario.  
Track linear system  
Système linéaire sur rail.  
Sistema lineal de carril.

Corpo in estruso di alluminio verniciato con polveri epossidiche previa fosfatatura. Ottiche in alluminio ad alto rendimento con funzione di dissipatore. Schermo in policarbonato opale (cod. OP) o microprismato (cod. MP). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con alimentazione integrata nell'adattatore ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Extruded aluminium body painted with epoxy powders after phosphating. High performance aluminium louvers with heatsink function. Opal (code OP) or microprismatic (code MP) polycarbonate diffuser. LED light source. Direct light emission. Track mounting system with built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium extrudé avec traitement époxy. Optique en aluminium haute performance avec fonction de dissipateur. Diffuseur en polycarbonate opal (réf. OP) ou microprismatique (réf. MP). Source lumineuse LED. Émission directe. Système de montage sur rail avec alimentation intégrée dans l'adaptateur ON/OFF. Sur demande: dimmable DALI (réf. DL).

Cuerpo de aluminio extruido con polvo epoxi previamente fosfatado. Óptica de aluminio de alto rendimiento con función de disipador. Difusor de policarbonato opal (cód. OP) o microprismático (cód. MP). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril con alimentación integrada en el adaptador ON/OFF. A pedido: regulación DALI (cód. DL).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1900	13	≤ 146	700	HRSOTR1	WW: 2700 W:3000 X:3500 N:4000	OP: opale opal MP: microprismato microprismatic	-: ON/OFF DL: DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
3800	26	≤ 146	700	HRSOTR2		19 UGR		
5700	39	≤ 146	700	HRSOTR3				
7600	52	≤ 146	700	HRSOTR4				



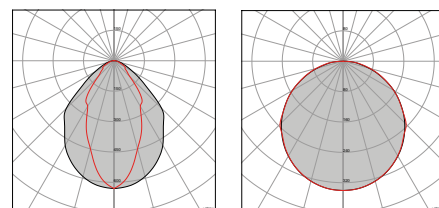
A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

Ottica MP 50°

Ottica OP 112°



H (m)	Ø (m)	H (m)	Ø (m)
1	1.0	1	1.0
2	2.0	2	2.0
3	2.8	3	2.8
4	4.0	4	4.0
5	5.0	5	5.0



## SOTTILE TRACK

FASCIO/BEAM/FAISCEAU/HAZ MD | LA | BT

Sistema lineare a binario.  
Track linear system  
Système linéaire sur rail.  
Sistema lineal de carril.

Corpo in lamiera pressopiegata verniciata con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in metacrilato lenticolare fascio largo (cod. LA) fascio medio (cod. MD) fascio doppio asimmetrico (cod. BT). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario (adattatore incluso). Alimentazione elettronica integrata nel corpo lampada ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Bent sheet metal body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Lenticular methacrylate louver wide beam (code LA) medium beam (code MD) asymmetric double beam (code BT). LED light source. Direct light emission. Track mounting system (adapter included). Built-in electronic driver in the body ON/OFF. On request: dimmable DALI (code DL).

Corps en tôle d'acier emboutie avec traitement époxy. Dissipateur thermique en aluminium extrudé. Optique lenticulaire en méthacrylate à faisceau large (réf. LA) faisceau moyen (réf. MD) double faisceau asymétrique (réf. BT). Source lumineuse LED. Émission directe. Système de fixation sur rail (adaptateur inclus). Alimentation électronique ON/OFF intégrée dans le corps de lampe. Sur demande: dimmable DALI (réf. DL).

Cuerpo de lámina de acero plegada a presión y recubierto con polvo epoxi previamente fosfatado. Disipador térmico de aluminio extruido. Óptica lenticular de metacrilato de haz amplio (cód. LA) haz medio (cód. MD) doble haz asimétrico (cód. BT). Emisión directa. Sistema de fijación con carril (adaptador incluido). Alimentación electrónica ON/OFF integrada en el cuerpo de la lámpara. A pedido: regulación DALI (cód. DL).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
3160	26,5	≤ 119	700	HRSTTR1	WW: 2700 W: 3000 X: 3500 N: 4000	MD: fascio medio medium beam	-: ON/OFF DL: DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
6320	53	≤ 119	700	HRSTTR2		LA: fascio largo wide beam		
6320	53	≤ 119	700	HRSTTR3		BT: fascio doppio asimmetrico Asymmetric batwing beam		

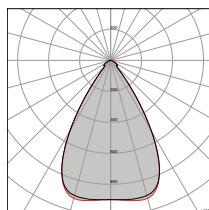


A richiesta | On request

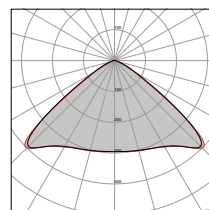
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

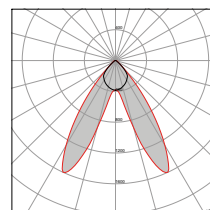
Ottica MD 60°



Ottica LA 110°



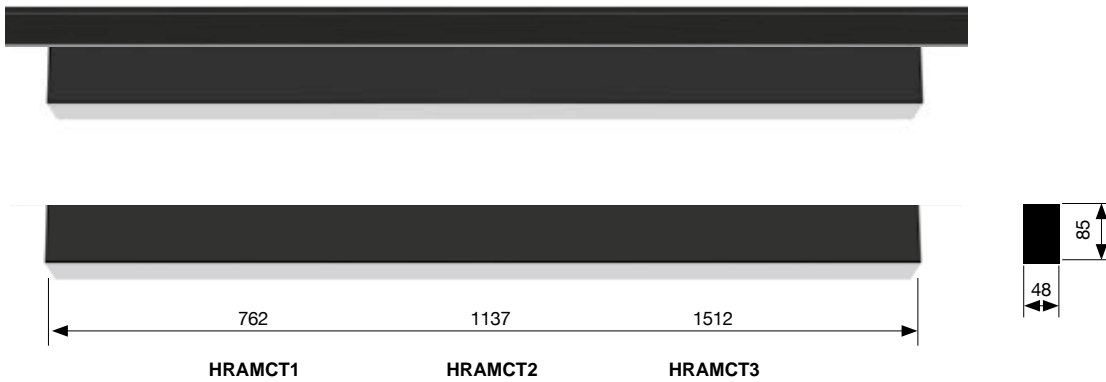
Ottica BT 25° € 22°+ 22°



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m) €
1	1.1	1	2.7	1	1
2	2.3	2	5.7	2	1.9
3	3.5	3	8.6	3	2.9
4	4.6	4	11.4	4	3.9
5	5.8	5	14	5	4.8







# MINI ALGEBRA TRACK

SCHERMO/DIFFUSER/DIFFUSEUR/DIFUSOR OP | MP

Sistema lineare a binario.  
Track linear system  
Système linéaire sur rail.  
Sistema lineal de carril.

Corpo in lamiera d'acciaio pressopiegata verniciata con polveri epossidiche previa fosfatazione. Ottiche in alluminio ad alto rendimento con funzione di dissipatore. Schermo in policarbonato opale (cod. OP) o microprismato (cod. MP). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con alimentazione integrata nel corpo lampada ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Bent sheet steel body painted with epoxy powders after phosphating. High performance aluminium louvers with heatsink function. Opal (code OP) or microprismatic (code MP) polycarbonate diffuser. LED light source. Direct light emission. Track mounting system (adapter included). Built-in electronic driver in the body ON/OFF. On request: dimmable DALI (code DL).

Corps en tôle d'acier emboutie avec traitement époxy. Optique en aluminium haute performance avec fonction de dissipateur. Diffuseur en polycarbonate opal (réf. OP) microprismatique (réf. MP). Embouts inclus. Source lumineuse LED. Emission directe. Système de fixation sur rail (adaptateur inclus). Alimentation électronique ON/OFF intégrée dans le corps de lampe. Sur demande: dimmable DALI (réf. DL).

Cuerpo de lámina de acero plegada a presión y recubierto con polvo epoxi previamente fosfatado. Óptica de aluminio de alto rendimiento con función de disipador. Difusor de policarbonato opal (cód. OP) o microprismático (cód. MP). Tapas de los extremos incluidos. Fuente de iluminación LED. Sistema de fijación con carril (adaptador incluido). Alimentación electrónica ON/OFF integrada en el cuerpo de la lámpara. A pedido: regulación DALI (cód. DL).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1540	14	≤ 110	500	<b>HRAMCT1</b>	<b>WW: 2700</b> <b>W:3000</b> <b>X:3500</b> <b>N:4000</b>	<b>OP:</b> opale opal <b>MP:</b> microprismato microprismatic	-: ON/OFF <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
2310	21	≤ 110	700	<b>HRAMCT2</b>				
3080	28	≤ 110	800	<b>HRAMCT3</b>		<b>19 UGR</b>		



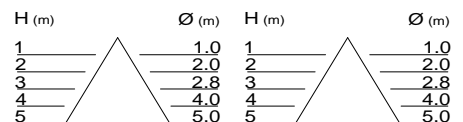
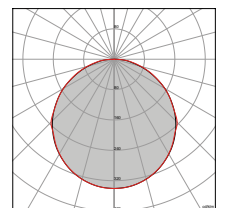
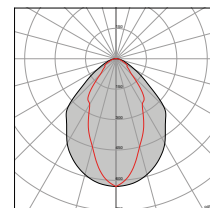
A richiesta | On request

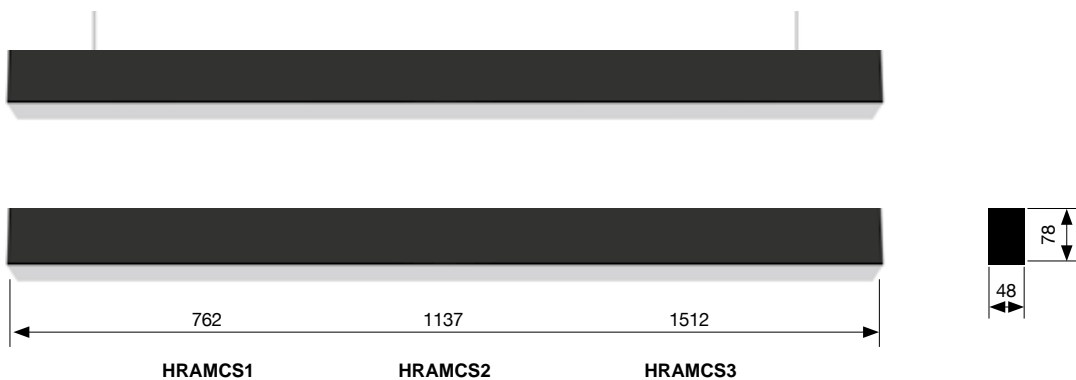
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

Ottica MP 50°

Ottica OP 112°





# MINI ALGEBRA

SCHERMO/DIFFUSER/DIFFUSEUR/DIFUSOR OP | MP

Sistema lineare a binario.  
Track linear system  
Système linéaire sur rail.  
Sistema lineal de carril.

Corpo in lamiera d'acciaio pressopiegata verniciata con polveri epossidiche previa fosfatizzazione. Ottiche in alluminio ad alto rendimento con funzione di dissipatore. Schermo in policarbonato opale (cod. OP) o microprismato (cod. MP). Testate di chiusura incluse. Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a sospensione/plafone. Alimentazione integrata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Emergenza autonomia 1h/3h.

Bent sheet steel body painted with epoxy powders after phosphating. High performance aluminium louvers with heatsink function. Opal (code OP) or microprismatic polycarbonate diffuser (code MP). Endcovers included. LED light source. Direct light emission. Ceiling and suspension fixing system. Built-in electronic driver ON/OFF. On request: dimmable DALI (code DL). Emergency autonomy 1h/3h.

Corps en tôle d'acier emboutie avec traitement époxy. Optique en aluminium haute performance avec fonction de dissipateur. Diffuseur en polycarbonate opal (réf. OP) ou microprismatique (réf. MP). Embouts inclus. Source lumineuse LED. Emission directe. Système de fixation en suspension ou au plafond. Alimentation ON/OFF intégrée. Sur demande: dimmable DALI (réf. DL). Autonomie d'urgence 1h/3h.

Cuerpo de lámina de acero plegada a presión y recubierto con polvo epoxi previamente fosfatado. Óptica de aluminio de alto rendimiento con función de dissipador. Difusor de policarbonato opal (cód. OP) o microprismático (cód. MP). Tapas de los extremos incluidas. Fuente de iluminación LED. Sistema de fijación en suspensión o en techo. Alimentación ON/OFF integrada. A pedido: regulación DALI (cód. DL). Autonomía de emergencia 1h/3h.



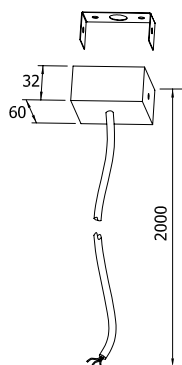
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1540	14	≤ 110	500	<b>HRAMCS1</b>	<b>WW: 2700</b> <b>W:3000</b> <b>X:3500</b> <b>N:4000</b>	<b>OP:</b> opale <i>opal</i>  <b>MP:</b> microprismato <i>microprismatic</i>	-: ON/OFF  <b>DL:</b> DALI	<b>Standard:</b>  ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava  <b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
2310	21	≤ 110	700	<b>HRAMCS2</b>				
3080	28	≤ 110	800	<b>HRAMCS3</b>				



A richiesta | On request

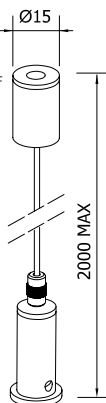
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%,  
con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%,  
with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%



Kit rosone elettrificato completo di cavo trasparente L=2000 mm 3x0,75 mm<sup>2</sup>, per soluzioni ON/OFF  
**Codice KT10206**  
5x0,75 mm<sup>2</sup>, per soluzioni DALI  
**Codice KT10206/D**

Electrified ceiling rose complete with transparent cable L=2000 mm 3x0,75 mm<sup>2</sup>, for ON/OFF version  
**Code KT10206**  
5x0,75 mm<sup>2</sup>, for DALI version  
**Code KT10206/D**

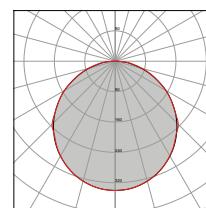
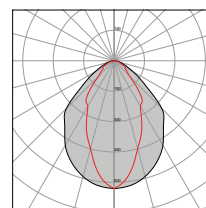


Kit sospensione: n. 2 cavi d'acciaio L=2000 mm n. 2 perni regolazione millimetrica n. 2 rosconi cilindrici  
**Codice KT10420**

Suspension kit: no. 2 steel cables L=2000 mm no. 2 precision adjustment pins no. 2 cylindrical ceiling roses  
**Codice KT10420**

Ottica MP 50°

Ottica OP 112°





ZETA MAXI IN

ZETA MAXI IN COLOR

ZETA MAXI

ZETA IN

ZETA IN DECO

ZETA

ZETA LENS

ZETA MINI IN

ZETA MINI

MINIMAG

UNO

UNO LENS

SII

ENNE

SPECCHIO

CENTOTTANTA

CENTOTTANTA IN

CENTOTTANTA IN COLOR

Apparecchi LED da incasso per il retail.

*Recessed LED downlights for retail.*

*Appareils encastrés LED pour le retail.*

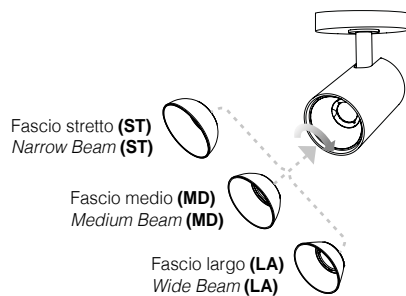
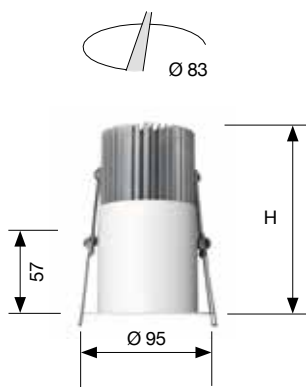
*Luminarias LED de empotrar para el Retail.*

#### **INCASSI DOWNLIGHT**

*RECESSED DOWNLIGHTS  
APPAREILS ENCASTRÉS LED  
LUMINARIAS LED DE EMPOTRAR*







Nota/Note  
 Ottiche intercambiabili  
 Exchangeable optics

- H 83 = 350 mA
- H 83 = 500 mA
- H 83 = 600 mA
- H 113 = 700 mA
- H 113 = 800 mA

## ZETA MAXI IN

FASCIO/BEAM/FAISCEAU/HAZ ST | MD | LA

Apparecchio LED da incasso con ottiche intercambiabili.  
 Recessed LED downlight with exchangeable optics.  
 Luminare LED encastré avec optiques échangeables.  
 Luminaria LED de empotrar con ópticas intercambiables.

Corpo in lamiera tornita verniciata con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD). Emergenza autonomia 1h/3h.

Turned sheet metal body painted with epoxy powder after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) elliptical beam (code EL). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps en tôle tournée avec traitement époxy. Dissipateur en aluminium extrudé. Optique lenticulaire en polycarbonate à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL). Spécifier la fonction PUSH-DIM (réf. PD). Autonomie d'urgence 1h/3h.

Cuerpo de chapa torneada y recubierto con polvo epoxi previamente fosfatado. Dissipador de aluminio extruido. Óptica de policarbonato lenticular de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz elíptico (cód. EL). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD). Autonomía de emergencia 1h/3h.

5Y WARRANTY 5% FAILURE RATE | 60.000 h LED LIFETIME L90B10 | 100.000 h LED LIFETIME L70B50 | RIPPLE FREE

Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1570	13	≤ 121	350	HRZMXI1	WW: 2700 W:3000 X:3500 N:4000	ST: fascio stretto narrow beam	-: ON/OFF DL: DALI	<b>Standard:</b> ● WI: White Irazu ● BLL: Black Lava <b>Su richiesta /On request:</b> ● SB: Silver Bombalai ● BL: Bronze Lario ● RR: Rust Rame ● BF: Beige Futura ● GK: Gold Karkar ● BT: Blue Telica
2150	18	≤ 120	500	HRZMXI2		MD: fascio medio medium beam		
2550	22	≤ 116	600	HRZMXI3		LA: fascio largo wide beam		
2950	26	≤ 114	700	HRZMXI4				
3350	30	≤ 112	800	HRZMXI5				

CE | >90 CRB | 3SDCM | IP44 EN 60529 | IK 07 EN 60068 | 230 V 2014250IE | 50/60 Hz | 850° EN 60495 | RG 0 EN 62471 | 19 UGR | DL DALI | >80 CRB | >95 CRB | VIVID PLUS | VEG PLUS | WHITE PLUS | MEAT PLUS

A richiesta | On request

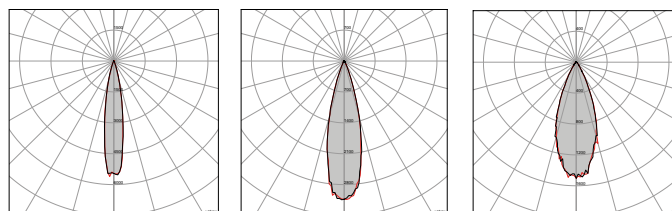
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

Ottica ST 12°

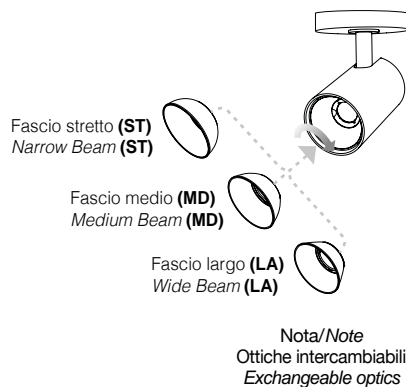
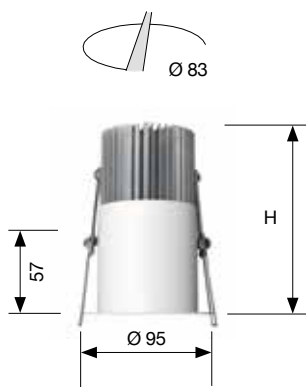
Ottica MD 25°

Ottica LA 38°



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.2	1	0.4	1	0.7
2	0.4	2	0.8	2	1.4
3	0.6	3	1.3	3	2.1
4	0.8	4	1.7	4	2.7
5	1.0	5	2.1	5	3.4





H 83 = 350 mA  
 H 83 = 500 mA  
 H 83 = 600 mA  
 H 113 = 700 mA  
 H 113 = 800 mA

Nota/Note  
 Ottiche intercambiabili  
 Exchangeable optics

# ZETA MAXI IN COLOR

FASCIO/BEAM/FAISCEAU/HAZ ST | MD | LA

Apparecchio LED da incasso con ottiche intercambiabili.  
 Recessed LED downlight with exchangeable optics.  
 Luminaire LED encastré avec optiques échangeables.  
 Luminaria LED de empotrar con ópticas intercambiables.

Corpo in lamiera tornita verniciata con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD). Emergenza autonomia 1h/3h.

Turned sheet metal body painted with epoxy powder after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) elliptical beam (code EL). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps en tôle tournée avec traitement époxy. Dissipateur en aluminium extrudé. Optique lenticulaire en polycarbonate à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL). Spécifier la fonction PUSH-DIM (réf. PD). Autonomie d'urgence 1h/3h.

Cuerpo de chapa torneada y recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica de policarbonato lenticular de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz elíptico (cód. EL). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD). Autonomía de emergencia 1h/3h.

5Y WARRANTY 5% FAILURE RATE | 60.000 h LED LIFETIME L90B10 | 100.000 h LED LIFETIME L70B50 | RIPPLE FREE

Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1570	13	≤ 121	350	HRZMXC1	WW: 2700 W:3000 X:3500 N:4000	ST: fascio stretto narrow beam	-: ON/OFF DL: DALI	Su richiesta /On request
2150	18	≤ 120	500	HRZMXC2		MD: fascio medio medium beam		
2550	22	≤ 116	600	HRZMXC3		LA: fascio largo wide beam		
2950	26	≤ 114	700	HRZMXC4				
3350	30	≤ 112	800	HRZMXC5				

CE | >90 CRI | 3SDCM | IP44 EN 60529 | IK 07 EN 60068 | 230 V 2014250IE | 50/60 Hz | 850° EN 60495 | DALI | RG 0 EN 62471 | DL DALI | >80 CRI | >95 CRI | VIVID PLUS | VEG PLUS | WHITE PLUS | MEAT PLUS

A richiesta | On request

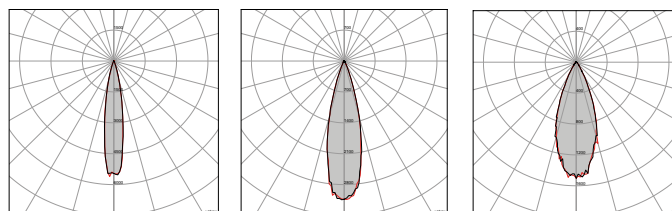
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

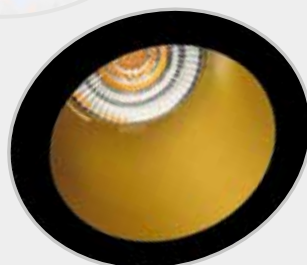
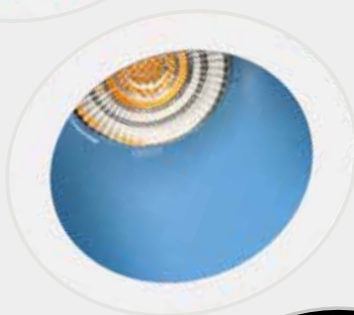
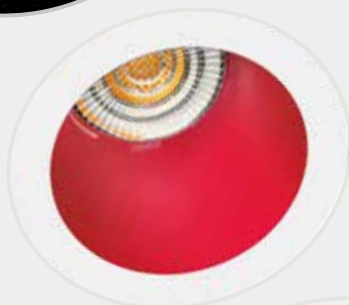
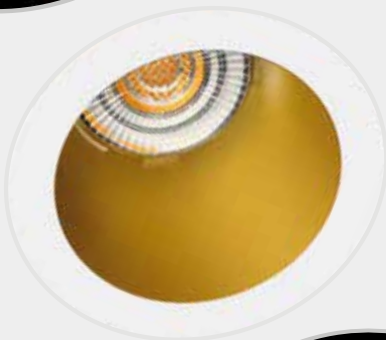
Ottica ST 12°

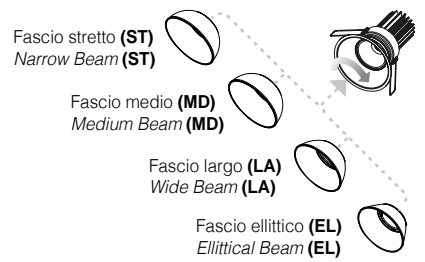
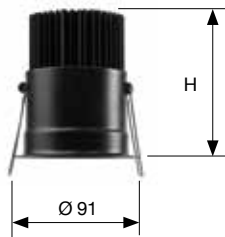
Ottica MD 25°

Ottica LA 38°



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.2	1	0.4	1	0.7
2	0.4	2	0.8	2	1.4
3	0.6	3	1.3	3	2.1
4	0.8	4	1.7	4	2.7
5	1.0	5	2.1	5	3.4





Nota/Note  
 Ottiche intercambiabili senza ausilio di utensili  
 Exchangeable optics without using of tools

H 83 = 350 mA  
 H 83 = 500 mA  
 H 83 = 600 mA  
 H 113 = 700 mA  
 H 113 = 800 mA

# ZETA MAXI

FASCIO/BEAM/FAISCEAU/HAZ ST | MD | LA | EL

Apparecchio LED da incasso con ottiche intercambiabili.  
 Recessed LED downlight with exchangeable optics.  
 Luminare LED encastré avec optiques échangeables.  
 Luminaria LED de empotrar con ópticas intercambiables.

Corpo in lamiera tornita verniciata con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio ellittico (cod. EL). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim. (cod. PD). Emergenza autonomia 1h/3h.

Turned sheet metal body painted with epoxy powder after phosphating. Extruded aluminium heatsink. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) elliptical beam (code EL). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps en tôle tournée avec traitement époxy. Dissipateur en aluminium extrudé. Optique en polycarbonate métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau elliptique (réf. EL). Source lumineuse LED. Emission directe. Installation empotrable au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL). Spécifier la fonction PUSH-DIM (réf. PD). Autonomie d'urgence 1h/3h.

Cuerpo de chapa torneada y recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz elíptico (cód. EL). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD). Autonomía de emergencia 1h/3h.

5Y WARRANTY 5% FAILURE RATE | 60.000 h LED LIFETIME L90B10 | 100.000 h LED LIFETIME L70B50 | RIPPLE FREE

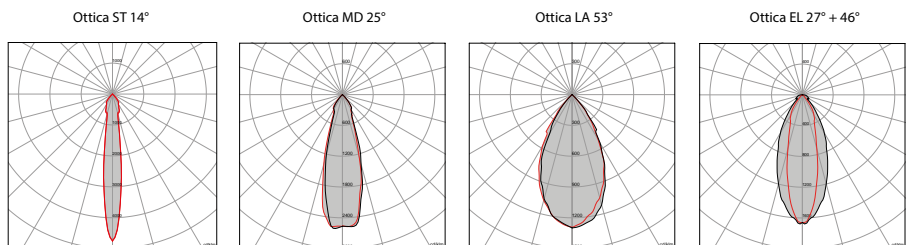
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1570	13	≤ 121	350	HRZMX1	WW: 2700 W:3000 X:3500 N:4000	ST: fascio stretto narrow beam	-: ON/OFF DL: DALI	<b>Standard:</b> ● WI: White Irazu ● BLL: Black Lava <b>Su richiesta / On request:</b> ● SB: Silver Bombalai ● BL: Bronze Lario ● RR: Rust Rame ● BF: Beige Futura ● GK: Gold Karkar ● BT: Blue Telica
2150	18	≤ 120	500	HRZMX2		MD: fascio medio medium beam		
2550	22	≤ 116	600	HRZMX3		LA: fascio largo wide beam		
2950	26	≤ 114	700	HRZMX4		EL: fascio ellittico elliptical beam		
3350	30	≤ 112	800	HRZMX5				

CE | >90 CRI | 3SDCM | IP44 EN 60529 | IK 07 EN 60068 | 230 V 50/60 Hz | 850° EN 60695 | DALI | RG 0 EN 62471 | DL DALI | PD PUSH DIM | DIM W | >80 CRI | >95 CRI | VIVID PLUS | VEG PLUS | WHITE PLUS | MEAT PLUS | EM

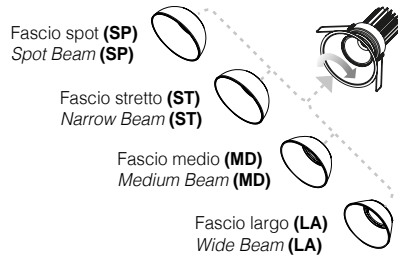
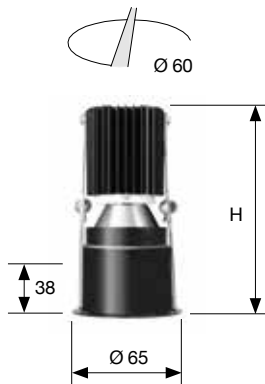
A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	1.0	1	0.8
2	0.5	2	0.9	2	2.0	2	1.6
3	1.7	3	1.3	3	2.8	3	2.5
4	1.0	4	1.8	4	4.0	4	3.3
5	1.2	5	2.2	5	5.0	5	4.2



**Nota/Note**  
Ottiche intercambiabili senza ausilio di utensili  
Exchangeable optics without using of tools

H 95 = 200 mA  
H 95 = 250 mA  
H 125 = 350 mA  
H 155 = 500 mA

## ZETA IN

FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Apparecchio LED da incasso con ottiche intercambiabili.  
Recessed LED downlight with exchangeable optics.  
Luminaire LED encastré avec optiques échangeables.  
Luminaria LED de empotrar con ópticas intercambiables.

Corpo in lamiera tornita verniciata con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD).

Turned sheet metal body painted with epoxy powder after phosphating. Extruded aluminium heatsink. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD).

Corps en tôle tournée avec traitement époxy. Dissipateur en aluminium extrudé. Optique en polycarbonate métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL). Spécifier la fonction PUSH-DIM (réf. PD).

Cuerpo de chapa torneada y recubierto con polvo epoxi previamente fosfatao. Disipador de aluminio extruido. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
890	7	≤ 127	200	HRZI1	WW: 2700 W: 3000 X: 3500 N: 4000	SP: fascio spot spot beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● WI: White Irazu ● BLL: Black Lava <b>Su richiesta / On request:</b> ● SB: Silver Bombalai ● BL: Bronze Lario ● RR: Rust Rame ● BF: Beige Futura ● GK: Gold Karkar ● BT: Blue Telica
1100	9	≤ 122	250	HRZI2		ST: fascio stretto narrow beam		
1570	13	≤ 121	350	HRZI3		MD: fascio medio medium beam		
2150	18	≤ 120	500	HRZI4		LA: fascio largo wide beam		

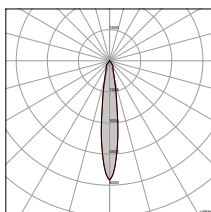


A richiesta | On request

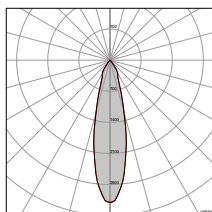
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

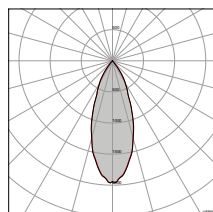
Ottica SP 15°



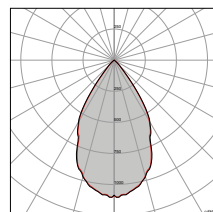
Ottica ST 25°



Ottica MD 40°



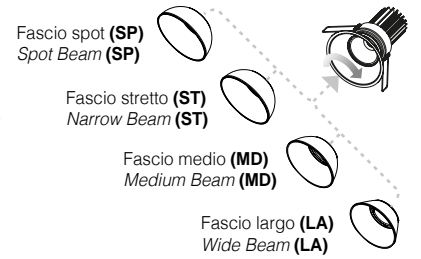
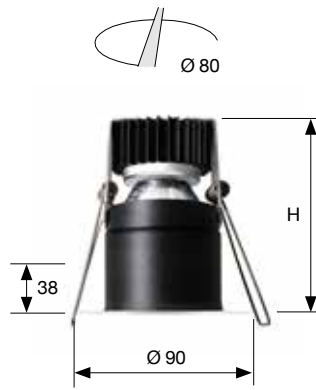
Ottica LA 60°



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	0.7	1	1.1
2	0.5	2	0.9	2	1.5	2	2.3
3	1.7	3	1.3	3	2.2	3	3.5
4	1.0	4	1.8	4	2.9	4	4.6
5	1.2	5	2.2	5	3.6	5	5.8







Nota/Note  
Ottiche intercambiabili senza ausilio di utensili  
Exchangeable optics without using of tools

H 100 = 200 mA  
H 95 = 250 mA  
H 125 = 350 mA

## ZETA IN DECO

FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Apparecchio LED da incasso con ottiche intercambiabili.  
Recessed LED downlight with exchangeable optics.  
Luminaire LED encastré avec optiques échangeables.  
Luminaria LED de empotrar con ópticas intercambiables.

Corpo in lamiera tornita verniciata con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD).

Turned sheet metal body painted with epoxy powder after phosphating. Extruded aluminium heatsink. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD).

Corps en tôle tournée avec traitement époxy. Dissipateur en aluminium extrudé. Optique en polycarbonate métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL). Spécifier la fonction PUSH-DIM (réf. PD).

Cuerpo de chapa torneada y recubierto con polvo epoxi previamente fosfatao. Disipador de aluminio extruido. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD).



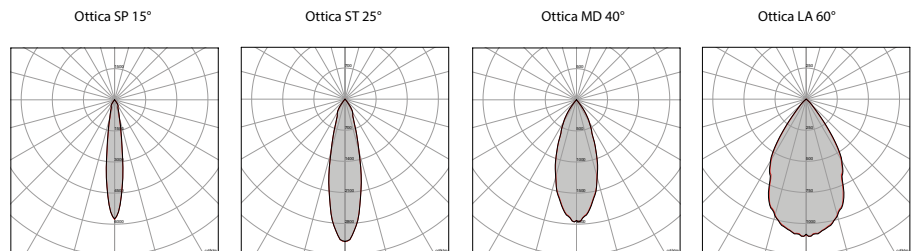
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
890	7	≤ 127	200	HRZD1	WW: 2700 W:3000 X:3500 N:4000	SP: fascio spot spot beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● WI: White Irazu ● BLL: Black Lava <b>Su richiesta /On request:</b> ● SB: Silver Bombalai ● BL: Bronze Lario ● RR: Rust Rame ● BF: Beige Futura ● GK: Gold Karkar ● BT: Blue Telica
1100	9	≤ 122	250	HRZD2		ST: fascio stretto narrow beam		
1570	13	≤ 121	350	HRZD3		MD: fascio medio medium beam  LA: fascio largo wide beam		



A richiesta | On request

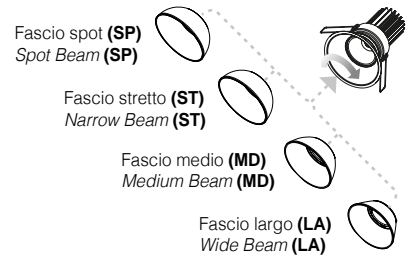
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	0.7	1	1.1
2	0.5	2	0.9	2	1.5	2	2.3
3	1.7	3	1.3	3	2.2	3	3.5
4	1.0	4	1.8	4	2.9	4	4.6
5	1.2	5	2.2	5	3.6	5	5.8





**Nota/Note**  
 Ottiche intercambiabili senza ausilio di utensili  
 Exchangeable optics without using of tools

H 75 = 200 mA  
 H 75 = 250 mA  
 H 105 = 350 mA

# ZETA

FASCIO/B EAM/FAISCEAU/HAZ SP | ST | MD | LA

Apparecchio LED da incasso con ottiche intercambiabili.  
 Recessed LED downlight with exchangeable optics.  
 Luminaire LED encastré avec optiques échangeables.  
 Luminaria LED de empotrar con ópticas intercambiables.

Corpo in lamiera tornita verniciata con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD).

Turned sheet metal body painted with epoxy powder after phosphating. Extruded aluminium heatsink. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD).

Corps en tôle tournée avec traitement époxy. Dissipateur en aluminium extrudé. Optique en polycarbonate métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL). Spécifier la fonction PUSH-DIM (réf. PD).

Cuerpo de chapa torneada y recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD).



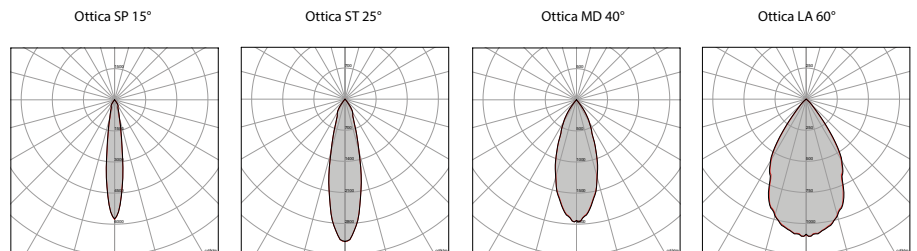
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
890	7	≤ 127	200	HRZ1	WW: 2700 W: 3000 X: 3500 N: 4000	SP: fascio spot spot beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● <b>WL:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
1100	9	≤ 122	250	HRZ2		ST: fascio stretto narrow beam		
1570	13	≤ 129	350	HRZ3		MD: fascio medio medium beam  LA: fascio largo wide beam		



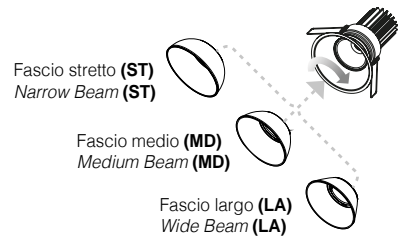
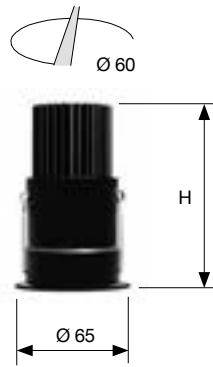
A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	0.7	1	1.1
2	0.5	2	0.9	2	1.5	2	2.3
3	1.7	3	1.3	3	2.2	3	3.5
4	1.0	4	1.8	4	2.9	4	4.6
5	1.2	5	2.2	5	3.6	5	5.8



Nota/Note  
 Ottiche intercambiabili  
 Exchangeable optics

H 75 = 200 mA  
 H 75 = 250 mA  
 H 105 = 350 mA

## ZETA LENS

FASCIO/BEAM/FAISCEAU/HAZ ST | MD | LA

Apparecchio LED da incasso con ottiche intercambiabili.  
 Recessed LED downlight with exchangeable optics.  
 Luminare LED encastré avec optiques échangeables.  
 Luminaria LED de empotrar con ópticas intercambiables.

Corpo in lamiera tornita verniciata con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD).

Turned sheet metal body painted with epoxy powder after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD).

Corps en tôle tournée avec traitement époxy. Dissipateur en aluminium extrudé. Optique lenticulaire en polycarbonate à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL). Spécifier la fonction PUSH-DIM (réf. PD).

Cuerpo de chapa torneada y recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica lenticular de policarbonato de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
890	7	≤ 127	200	HRZL1	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	<b>ST:</b> fascio stretto narrow beam	-: ON/OFF  <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava  <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
1100	9	≤ 122	250	HRZL2		<b>MD:</b> fascio medio medium beam		
1570	13	≤ 129	350	HRZL3		<b>LA:</b> fascio largo wide beam		



A richiesta | On request

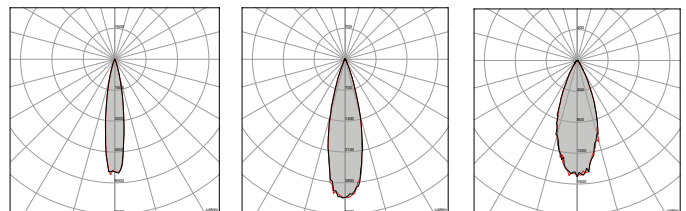
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90.  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90.  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

Ottica ST 12°

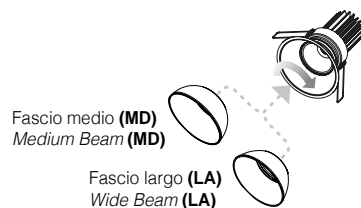
Ottica MD 25°

Ottica LA 38°



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.2	1	0.4	1	0.7
2	0.4	2	0.8	2	1.4
3	0.6	3	1.3	3	2.1
4	0.8	4	1.7	4	2.7
5	1.0	5	2.1	5	3.4





## ZETA MINI IN

FASCIO/BEAM/FAISCEAU/HAZ MD | LA

Apparecchio LED da incasso con ottiche intercambiabili.  
Recessed LED downlight with exchangeable optics.  
Luminaire LED encastré avec optiques échangeables.  
Luminaria LED de empotrar con ópticas intercambiables.

Corpo in lamiera tornita verniciata con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD).

Turned sheet metal body painted with epoxy powder after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louvre wide beam (code LA) medium beam (code MD). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD).

Corps en tôle tournée avec traitement époxy. Dissipateur en aluminium extrudé. Optique en polycarbonate lenticulaire à faisceau large (réf. LA) faisceau moyen (réf. MD). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL). Spécifier la fonction PUSH-DIM (réf. PD).

Cuerpo de chapa torneada y recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica de policarbonato lenticular de haz amplio (cód. LA) haz medio (cód. MD). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
620	6,5	≤ 96	180	HRZMII1	WW: 2700 W:3000 N:4000	MD: fascio medio medium beam LA: fascio largo wide beam	-: ON/OFF DL: DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica



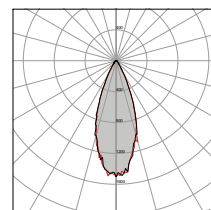
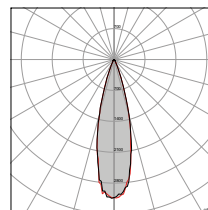
A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

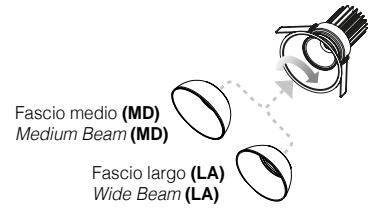
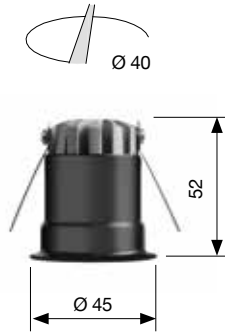
Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

Ottica MD 24°

Ottica LA 36°



H (m)	Ø (m)	H (m)	Ø (m)
1	0.4	1	0.7
2	0.8	2	1.4
3	1.3	3	2.1
4	1.7	4	2.7
5	2.1	5	3.4



# ZETA MINI

## FASCIO/BEAM/FAISCEAU/HAZ MD | LA

Apparecchio LED da incasso con ottiche intercambiabili.  
 Recessed LED downlight with exchangeable optics.  
 Luminaire LED encastré avec optiques échangeables.  
 Luminaria LED de empotrar con ópticas intercambiables.

Corpo in lamiera tornita verniciata con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD).

Turned sheet metal body painted with epoxy powder after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louver wide beam (code LA) medium beam (code MD). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD).

Corps en tôle tournée avec traitement époxy. Dissipateur en aluminium extrudé. Optique en polycarbonate lenticulaire à faisceau large (réf. LA) faisceau moyen (réf. MD). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL). Spécifier la fonction PUSH-DIM (réf. PD).

Cuerpo de chapa torneada y recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica de policarbonato lenticular de haz amplio (cód. LA) haz medio (cód. MD). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD).

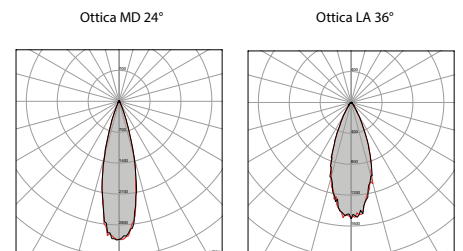


Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
620	6,5	≤ 96	180	HRZMI1	WW: 2700 W:3000 N:4000	MD: fascio medio medium beam LA: fascio largo wide beam	-: ON/OFF DL: DALI	<b>Standard:</b> ● WI: White Irazu ● BLL: Black Lava <b>Su richiesta / On request:</b> ● SB: Silver Bombalai ● BL: Bronze Lario ● RR: Rust Rame ● BF: Beige Futura ● GK: Gold Karkar ● BT: Blue Telica



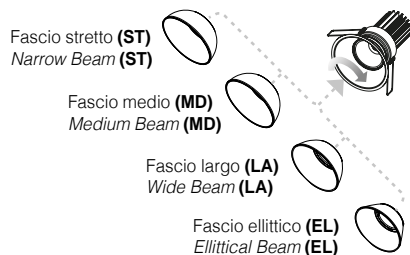
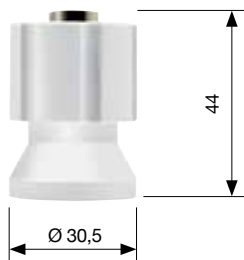
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%



H (m)	Ø (m)	H (m)	Ø (m)
1	0.4	1	0.7
2	0.8	2	1.4
3	1.3	3	2.1
4	1.7	4	2.7
5	2.1	5	3.4





# MINIMAG

FASCIO/BEAM/FAISCEAU/HAZ ST | MD | LA | EL

Apparecchio LED da incasso.

Recessed LED downlight.

Luminaire LED encastré.

Luminaria LED de empotrar.

Corpo in estruso d'alluminio lavorato dal pieno con funzione di dissipatore di calore verniciato con polveri epossidiche previa fosfatazione. Ottica in policarbonato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a incasso tramite accessorio B o accessorio R. Alimentazione esterna remota da ordinare separatamente.

Extruded aluminium body machined from solid, with heatsink function, painted with epoxy powders after phosphating. Polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Recessed mounting system using accessory B or R. External remote power supply to be ordered separately.

Corps en aluminium extrudé d'une seule pièce avec fonction de dissipateur de chaleur peint avec poudre époxy après phosphatation. Optique en polycarbonate métallisé faisceau large 60° (réf. LA) faisceau moyen 35° (réf. MD) faisceau étroit 16° (réf. ST) faisceau elliptique 35x15° (réf. EL). Source de lumière LED. Émission directe. Système de fixation sur rail. Avec alimentation électronique intégrée ON/OFF. Sur demande dimmable DALI (réf. DL).

Cuerpo de aluminio extruido mecanizado sólido con función de disipador y recubierto con polvo epoxi previamente fosfatado. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST), haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril con alimentación CAE integrada en el adaptador. Bajo pedido: regulable DALI (cód. DL).

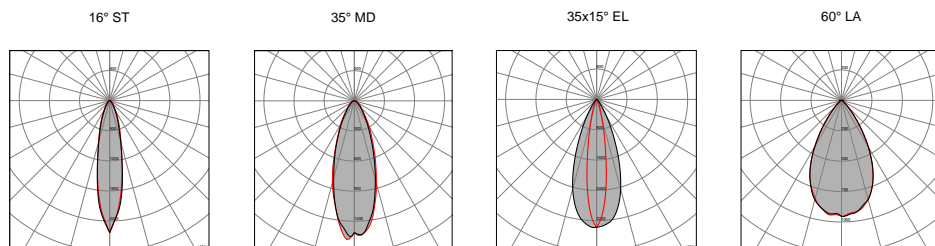


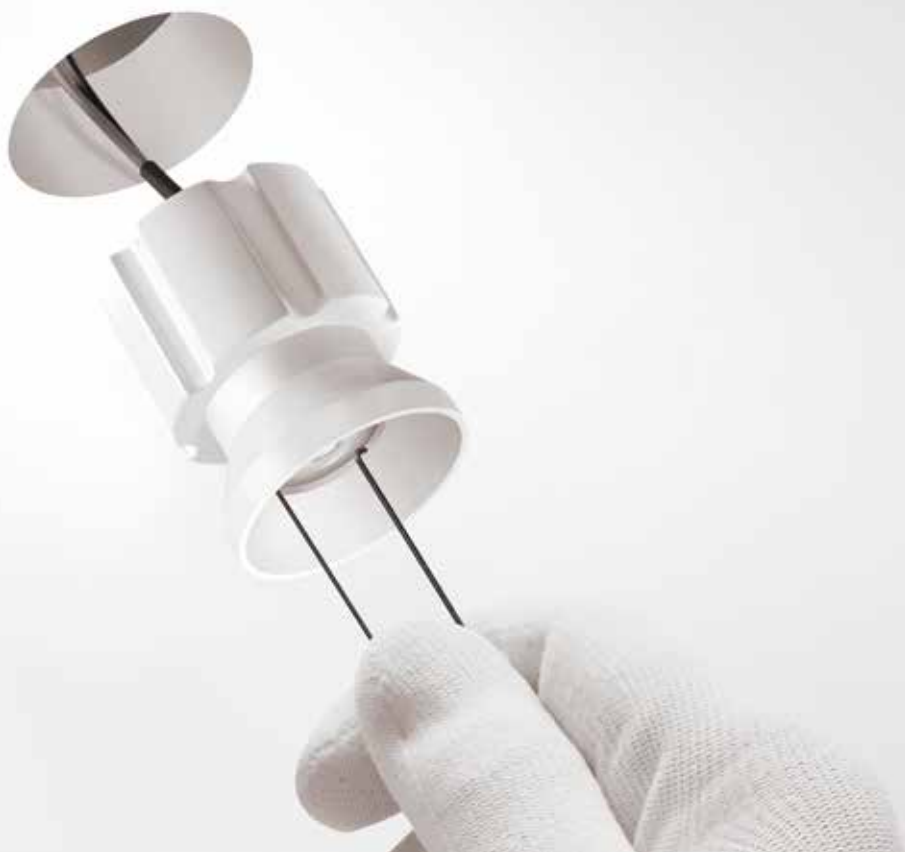
Lumen	Watt	Lumen Watt Out	mA Volt	Codice Code	K	Fascio Beam	Colore Colour
<b>Collegamento in serie</b> In series connection							<b>Standard:</b>
210	1,9	≤ 111	700	<b>HRMM70</b>	<b>WW: 2700</b> <b>W: 3000</b> <b>X: 3500</b> <b>N: 4000</b>	<b>ST:</b> fascio stretto narrow beam <b>MD:</b> fascio medio medium beam <b>EL:</b> fascio ellittico elliptical beam <b>LA:</b> fascio largo wide beam	<b>WI:</b> White Irazu <b>BLL:</b> Black Lava <b>Su richiesta / On request:</b> <b>SB:</b> Silver Bombalai <b>BL:</b> Bronze Lario <b>RR:</b> Rust Rame <b>BF:</b> Beige Futura <b>GK:</b> Gold Karkar <b>BT:</b> Blue Telica
<b>Collegamento parallelo</b> Shunt connection							
210	1,9	≤ 111	24	<b>HRMM24</b>			



Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%





## ALIMENTATORI / POWER SUPPLIES / ALIMENTATIONS ÉLECTRIQUES / FUENTES DE ALIMENTACIÓN

Alimentatore remoto da alloggiare in cassetta di derivazione o controsoffitto ispezionabile.

Remote power supply in a separate junction box or in an inspectable false ceiling.

Driver déporté à installer dans une boîte de dérivation, ou faux plafond inspectable.

Fuente de alimentación remota en caja exterior o en techo inspeccionable.

N° minimag	Watt	mA	Dimensioni Dimension	Type	Codice Code	N° minimag	Watt	Vdc	Dimensioni Dimension	Type	Codice Code
1	3	700	26x37x43		<b>KTHFL1MMC7</b>	1-20	60	24	16x30x298		<b>KTHFL2460VMM</b>
2-4	10	700	19x34x115		<b>KTHFL4MMC7</b>	1-5	13	24	2211x115		<b>KTHFL2413VMM</b>
5-12	30	700	22x44x147		<b>KTHFL12MMC7</b>						

## ACCESSORI / ACCESSORIES / ACCESSOIRES / ACCESORIOS

**B** **HRMTB1**

Standard:

- **WI:** White Irazu
- **BLL:** Black Lava

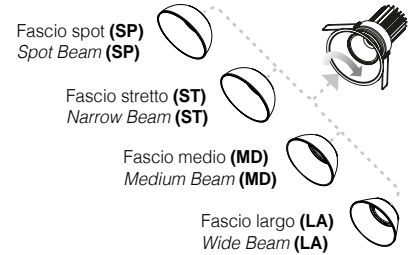
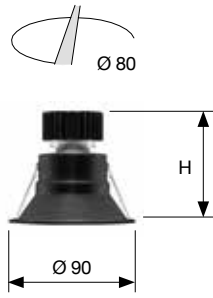
Su richiesta / On request:

- **SB:** Silver Bombalai
- **BL:** Bronze Lario
- **RR:** Rust Rame
- **BF:** Beige Futura
- **GK:** Gold Karkar
- **BT:** Blue Telica

**R** **HRMTR1**    **HRMTR2**    **HRMTR3**    **HRMTR4**

● Zincato  
Galvanized  
Galvanisé  
Galvanized





H 85 = 200 mA  
 H 85 = 250 mA  
 H 105 = 350 mA  
 H 145 = 500 mA

**Nota/Note**  
 Ottiche intercambiabili senza ausilio di utensili  
 Exchangeable optics without using of tools

# UNO

FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Apparecchio LED da incasso con ottiche intercambiabili.  
 Recessed LED downlight with exchangeable optics.  
 Luminaire LED encastré avec optiques échangeables.  
 Luminaria LED de empotrar con ópticas intercambiables.

Corpo in lamiera tornita verniciata con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD). Emergenza autonomia 1h/3h.

Turned sheet metal body painted with epoxy powder after phosphating. Extruded aluminium heatsink. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps en tôle tournée avec traitement époxy. Dissipateur en aluminium extrudé. Optique en polycarbonate métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL). Spécifier la fonction PUSH-DIM (réf. DL). Autonomie d'urgence 1h/3h.

Cuerpo de chapa torneada y recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD). Autonomía de emergencia 1h/3h.



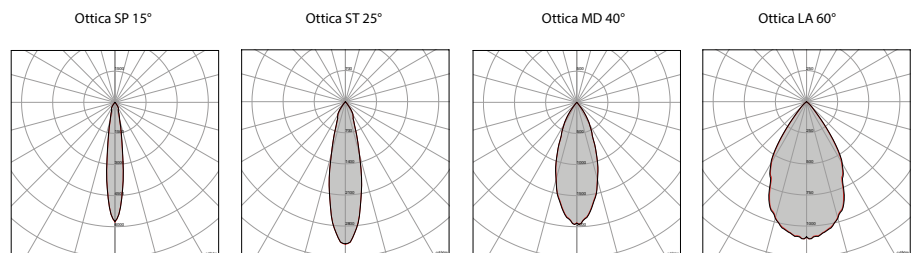
Lumen	Watt	Lumen Watt Out	mA	Code Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
890	7	≤ 127	200	<b>HRUN1</b>	<b>WW: 2700</b> <b>W:3000</b> <b>X:3500</b> <b>N:4000</b>	<b>SP:</b> fascio spot spot beam	<b>-:</b> ON/OFF  <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
1100	9	≤ 122	250	<b>HRUN2</b>		<b>ST:</b> fascio stretto narrow beam		
1570	13	≤ 121	350	<b>HRUN3</b>		<b>MD:</b> fascio medio medium beam		
2150	18	≤ 120	500	<b>HRUN4</b>		<b>LA:</b> fascio largo wide beam		



A richiesta | On request

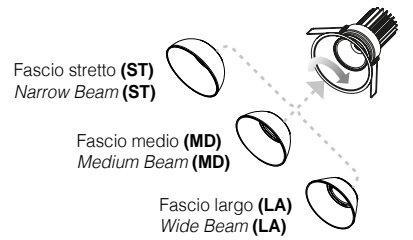
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	0.7	1	1.1
2	0.5	2	0.9	2	1.5	2	2.3
3	1.7	3	1.3	3	2.2	3	3.5
4	1.0	4	1.8	4	2.9	4	4.6
5	1.2	5	2.2	5	3.6	5	5.8





Nota/Note  
 Ottiche intercambiabili  
 Exchangeable optics

H 95 = 200 mA  
 H 95 = 250 mA  
 H 125 = 350 mA  
 H 155 = 500 mA

# UNO LENS

FASCIO/BEAM/FAISCEAU/HAZ ST | MD | LA

Apparecchio LED da incasso con ottiche intercambiabili.  
 Recessed LED downlight with exchangeable optics.  
 Luminare LED encastré avec optiques échangeables.  
 Luminaria LED de empotrar con ópticas intercambiables.

Corpo in lamiera tornita verniciata con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD). Emergenza autonomia 1h/3h.

Turned sheet metal body painted with epoxy powder after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps en tôle tournée avec traitement époxy. Dissipateur en aluminium extrudé. Optique lenticulaire en polycarbonate à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL). Spécifier la fonction PUSH-DIM (réf. PD). Autonomie d'urgence 1h/3h.

Cuerpo de chapa torneada y recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica lenticular de policarbonato de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD). Autonomía de emergencia 1h/3h.

5Y WARRANTY 5% FAILURE RATE | 60.000 h LED LIFETIME L70B10 | 100.000 h LED LIFETIME L70B50 | RIPPLE FREE

Lumen	Watt	Lumen Watt Out	mA	Code Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
890	7	≤ 127	200	HRUNL1	WW: 2700 W:3000 X:3500 N:4000	ST: fascio stretto narrow beam	-: ON/OFF DL: DALI	<b>Standard:</b> ● WI: White Irazu ● BLL: Black Lava <b>Su richiesta /On request:</b> ● SB: Silver Bombalai ● BL: Bronze Lario ● RR: Rust Rame ● BF: Beige Futura ● GK: Gold Karkar ● BT: Blue Telica
1100	9	≤ 122	250	HRUNL2		MD: fascio medio medium beam		
1550	13	≤ 119	350	HRUNL3		LA: fascio largo wide beam		
2150	18	≤ 120	500	HRUNL4				

CE | >90 CRI | 3SDCM | IP44 EN 60529 | IK 07 EN 60068 | 230 V 2014/25/EU | 50/60 Hz | 850° EN 60695 | DALI PD DIM W >80 CRI >95 CRI VIVID PLUS VEG PLUS WHITE PLUS MEAT PLUS EM

A richiesta | On request

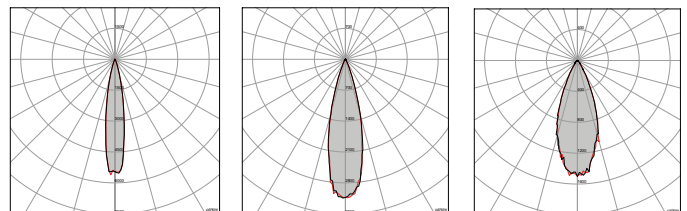
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

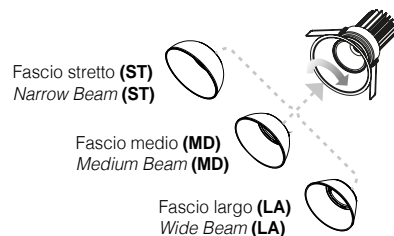
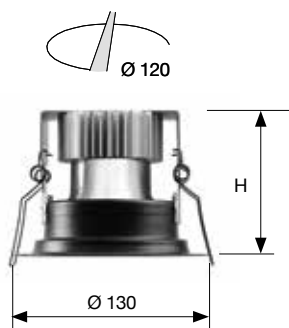
Ottica ST 12°

Ottica MD 25°

Ottica LA 38°



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.2	1	0.4	1	0.7
2	0.4	2	0.8	2	1.4
3	0.6	3	1.3	3	2.1
4	0.8	4	1.7	4	2.7
5	1.0	5	2.1	5	3.4



Nota/Note  
 Ottiche intercambiabili  
 Exchangeable optics

H 95 = 500 mA  
 H 95 = 600 mA  
 H 125 = 700 mA  
 H 125 = 800 mA

## SII

### FASCIO/BEAM/FAISCEAU/HAZ ST | MD | LA

Apparecchio LED da incasso con ottiche intercambiabili.  
 Recessed LED downlight with exchangeable optics.  
 Luminaire LED encastré avec optiques échangeables.  
 Luminaria LED de empotrar con ópticas intercambiables.

Corpo in lamiera tornita verniciata con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD). Emergenza autonomia 1h/3h.

Turned sheet metal body painted with epoxy powder after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps en tôle tournée avec traitement époxy. Dissipateur en aluminium extrudé. Optique lenticulaire à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST). Source lumineuse LED. Emission directe. Fixation à encastrément au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL). Spécifier la fonction PUSH-DIM (réf. PD). Autonomie d'urgence 1h/3h.

Cuerpo de chapa torneada y recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica lenticular de policarbonato de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD). Autonomía de emergencia 1h/3h.



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2150	18	≤ 120	500	HRSI1	WW: 2700 W:3000 X:3500 N:4000	ST: fascio stretto narrow beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● <b>WL:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
2550	22	≤ 116	600	HRSI2		MD: fascio medio medium beam		
2950	26	≤ 114	700	HRSI3		LA: fascio largo wide beam		
3350	30	≤ 112	800	HRSI4				

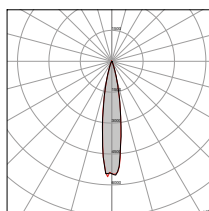


A richiesta | On request

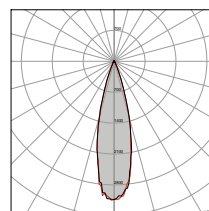
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90.  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90.  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

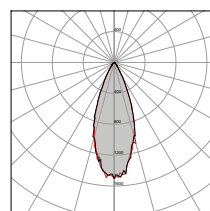
Ottica ST 12°



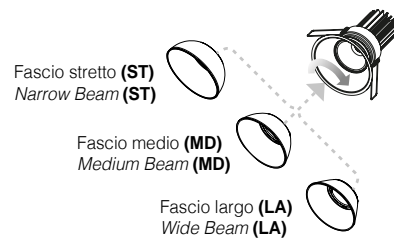
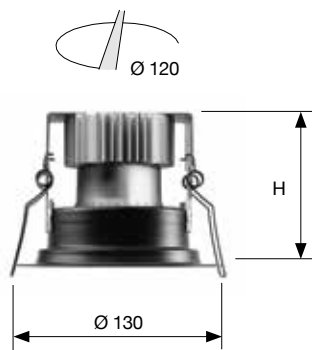
Ottica MD 25°



Ottica LA 38°



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.2	1	0.4	1	0.7
2	0.4	2	0.8	2	1.4
3	0.6	3	1.3	3	2.1
4	0.8	4	1.7	4	2.7
5	1.0	5	2.1	5	3.4



Nota/Note  
Ottiche intercambiabili  
Exchangeable optics

H 95 = 500 mA  
H 95 = 600 mA  
H 125 = 700 mA  
H 125 = 800 mA

## ENNE

### FASCIO/BEAM/FAISCEAU/HAZ ST | MD | LA

Apparecchio LED da incasso con ottiche intercambiabili.  
Recessed LED downlight with exchangeable optics.  
Luminaire LED encastré avec optiques échangeables.  
Luminaria LED de empotrar con ópticas intercambiables.

Corpo in lamiera tornita verniciata con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD). Emergenza autonomia 1h/3h.

Turned sheet metal body painted with epoxy powder after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps en tôle tournée avec traitement époxy. Dissipateur en aluminium extrudé. Optique lenticulaire à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL). Spécifier la fonction PUSH-DIM (réf. PD). Autonomie d'urgence 1h/3h.

Cuerpo de chapa torneada y recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica lenticular de policarbonato de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD). Autonomía de emergencia 1h/3h.



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2150	18	≤ 120	500	<b>HREN1</b>	<b>WW: 2700</b> <b>W: 3000</b> <b>X: 3500</b> <b>N: 4000</b>	<b>ST:</b> fascio stretto narrow beam	-: ON/OFF  <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava  <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalari ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
2550	22	≤ 116	600	<b>HREN2</b>		<b>MD:</b> fascio medio medium beam		
2950	26	≤ 114	700	<b>HREN3</b>		<b>LA:</b> fascio largo wide beam		
3350	30	≤ 112	800	<b>HREN4</b>				

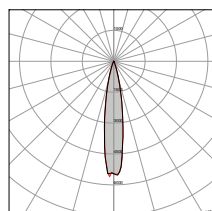


A richiesta | On request

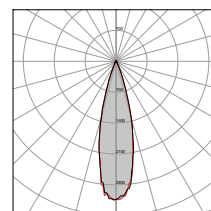
Temperatura ambiente min. - max.: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

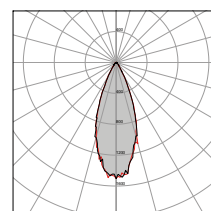
Ottica ST 12°



Ottica MD 25°

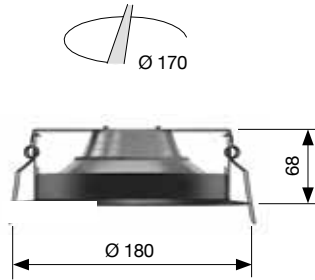


Ottica LA 38°



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.2	1	0.4	1	0.7
2	0.4	2	0.8	2	1.4
3	0.6	3	1.3	3	2.1
4	0.8	4	1.7	4	2.7
5	1.0	5	2.1	5	3.4





# SPECCHIO

## FASCIO/BEAM/FAISCEAU/HAZ LA

Apparecchio LED da incasso con ottica speculare.  
 Recessed LED downlight with specular optics.  
 Luminaire LED encastré avec optiques spéculaire.  
 Luminaria LED de empotrar con ópticas especular.

Corpo in lamiera tornita verniciata con polveri epossidiche previa fosfatazione. Riflettore in AP speculare con funzione di dissipatore. Diffusore in policarbonato opale fascio largo (cod. LA). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD). Emergenza autonomia 1h/3h.

Turned sheet metal body painted with epoxy powder after phosphating. AP specular reflector with heatsink function. Opal polycarbonate diffuser wide beam (code LA). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps en tôle tournée avec traitement époxy. Réflecteur en AP spéculaire avec une fonction de dissipateur. Diffuseur en polycarbonate opal à faisceau large (réf. LA). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL). Spécifier la fonction PUSH-DIM (réf. PD). Autonomie d'urgence 1h/3h.

Cuerpo de chapa torneada y recubierto con polvo epoxi previamente fosfatado. Reflector en AP especular con función de disipador. Difusor de policarbonato opal de haz amplio (cód. LA). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD). Autonomía de emergencia 1h/3h.



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2150	18	≤ 120	500	HRSP1	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	<b>LA:</b> fascio largo wide beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava
2550	22	≤ 116	600	HRSP2				<b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
2950	26	≤ 114	700	HRSP3				

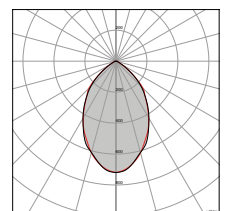


A richiesta | On request

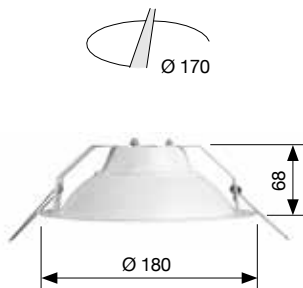
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

Ottica LA 70°



H (m)	Ø (m)
1	1.4
2	2.8
3	4.2
4	5.6
5	7.0



# CENTOTTANTA

FASCIO/BEAM/FAISCEAU/HAZ LA

Apparecchio LED da incasso.  
 Recessed LED downlight.  
 Luminaires LED encastré.  
 Luminaria LED de empotrar.

Corpo in lamiera tornita verniciata con polveri epossidiche bianche previa fosfatazione con funzione di dissipatore. Diffusore in policarbonato opale fascio largo (cod. LA). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD). Emergenza autonomia 1h/3h.

Turned sheet metal body painted with white epoxy powder after phosphating with heatsink function. Opal polycarbonate diffuser wide beam (code LA). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps en tôle tournée avec traitement époxy blanc. Diffuseur en polycarbonate opal à faisceau large (réf. LA). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL). Spécifier la fonction PUSH-DIM (réf. PD). Autonomie d'urgence 1h/3h.

Cuerpo de chapa torneada y recubierto con polvo epoxi blanco previamente fosfatado. Difusor de policarbonato opal de haz amplio (cód. LA). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD). Autonomía de emergencia 1h/3h.



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2150	18	≤ 120	500	<b>HR1801</b>	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	<b>LA:</b> fascio largo <i>wide beam</i>	-: ON/OFF  <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava
2550	22	≤ 116	<b>HR1802</b>	<b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica				
2950	26	≤ 114	<b>HR1803</b>					

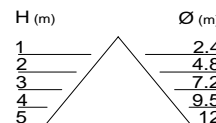
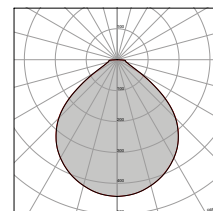


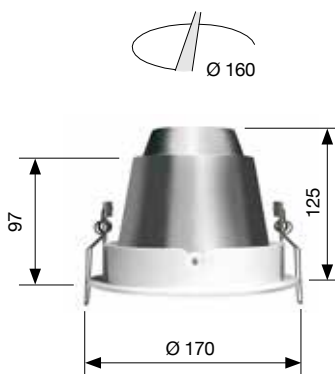
A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

Ottica LA 100°





# CENTOSETTANTA IN

FASCIO/BEAM/FAISCEAU/HAZ LA

Apparecchio LED da incasso.  
Recessed LED downlight.  
Luminaire LED encastré.  
Luminaria LED de empotrar.



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2150	18	≤ 120	500	<b>HR17101</b>	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	<b>LA:</b> fascio largo <i>wide beam</i>	-: ON/OFF  <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava
2550	22	≤ 116	600	<b>HR17102</b>				<b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
2950	26	≤ 114	700	<b>HR17103</b>				

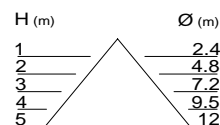
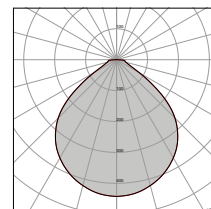


A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

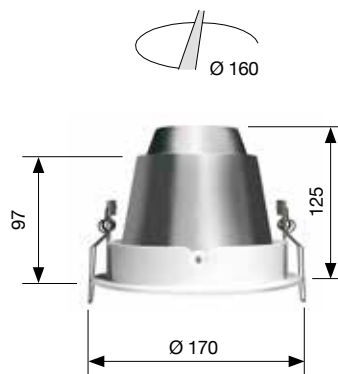
Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

Ottica LA 100°









## CENTOSETTANTA IN COLOR

FASCIO/BEAM/FAISCEAU/HAZ LA

Apparecchio LED da incasso.  
Recessed LED downlight.  
Luminaire LED encastré.  
Luminaria LED de empotrar.

Corpo in lamiera tornita verniciata con polveri epossidiche previa fosfatatura con funzione di dissipatore. Diffusore in policarbonato opale fascio largo (cod. LA). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD). Emergenza autonomia 1h/3h.

Turned sheet metal body painted with epoxy powder after phosphating with heatsink function. Opal polycarbonate diffuser wide beam (code LA). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps en tôle tournée avec traitement époxy. Diffuseur en polycarbonate opal à faisceau large (réf. LA). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL). Spécifier la fonction PUSH-DIM (réf. PD). Autonomie d'urgence 1h/3h.

Cuerpo de chapa torneada y recubierto con polvo epoxi previamente fosfatado. Difusor de policarbonato opal de haz amplio (cód. LA). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD). Autonomía de emergencia 1h/3h.



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2150	18	≤ 120	500	<b>HR17C01</b>	<b>WW: 2700</b>	<b>LA:</b> fascio largo wide beam	-: ON/OFF <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
2550	22	≤ 116	600	<b>HR17C02</b>	<b>W:3000</b>			
2950	26	≤ 114	700	<b>HR17C03</b>	<b>X:3500</b> <b>N:4000</b>			

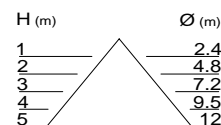
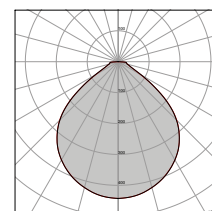


A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

Ottica LA 100°



MICRO GIRO

MICRO GIRO LENS

MINIAUTOMA

MINIAUTOMA LENS

AUTOMA

SII ORIENT LENS

ENNE ORIENT LENS

MINI GIRO LENS

ROLLER LENS

GIRO LED

Apparecchi LED da incasso orientabili.

*LED adjustable recessed downlights.*

*Luminaires LED encastrés orientables.*

*Luminarias LED orientables de empotrar.*

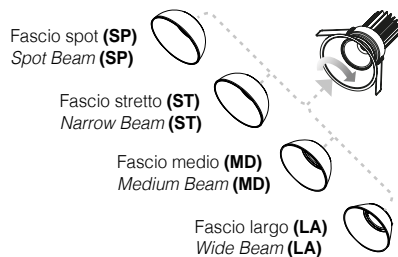
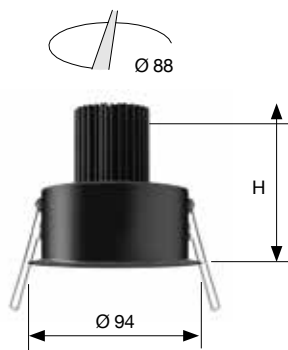
## INCASSI ORIENTABILI

*ADJUSTABLE RECESSED  
ENCASTRÉS ORIENTABLES  
ORIENTABLES DE EMPOTRAR*









Nota/Note  
 Ottiche intercambiabili senza ausilio di utensili  
 Exchangeable optics without using of tools

H 75 = 240 mA  
 H 75 = 250 mA  
 H 75 = 350 mA  
 H 105 = 500 mA  
 H 105 = 700 mA

**Orientabilità**  
**Adjustability**  
 Asse X / Axis X 45°  
 Asse Y / Axis Y 45°

## MICRO GIRO

FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Apparecchio LED da incasso orientabile.  
 Adjustable recessed LED downlight.  
 Luminare LED encastré orientables.  
 Luminaria LED de empotrar orientables.

Corpo in lamiera tornita, gruppo cardanico pressofuso in alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD). Emergenza autonomia 1h/3h.

Turned sheet metal body, die-cast aluminium cardan group painted with epoxy powder with phosphating. Extruded aluminium heatsink. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps en tôle tournée, cardan en aluminium moulé sous pression avec traitement époxy. Dissipateur en aluminium extrudé. Optique en polycarbonate métallisé à faisceau large (réf. LA) faisceau moyen (MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmerable DALI (réf. DL). Spécifier la fonction PUSH DIM (réf. PD). Autonomie d'urgence 1h/3h.

Cuerpo de chapa torneada con grupo óptico orientable de aluminio fundido a presión y recubierto con polvo epoxi previamente fosfatao. Disipador de aluminio extruido. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD). Autonomía de emergencia 1h/3h.



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
890	7	≤ 127	200	HRMCGR1	WW: 2700 W:3000 X:3500 N:4000	SP: fascio spot spot beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● WI: White Irazu ● BLL: Black Lava <b>Su richiesta / On request:</b> ● SB: Silver Bombalai ● BL: Bronze Lario ● RR: Rust Rame ● BF: Beige Futura ● GK: Gold Karkar ● BT: Blue Telica
1100	9	≤ 122	250	HRMCGR2		ST: fascio stretto narrow beam		
1570	13	≤ 121	350	HRMCGR3		MD: fascio medio medium beam		
2150	18	≤ 120	500	HRMCGR4		LA: fascio largo wide beam		
2950	26	≤ 114	700	HRMCGR5				

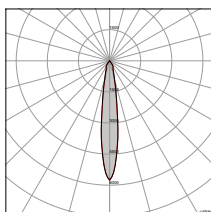


A richiesta | On request

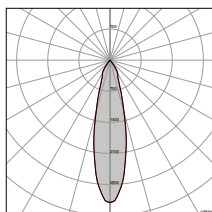
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

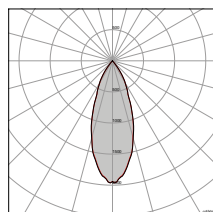
Ottica SP 15°



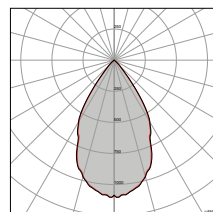
Ottica ST 25°



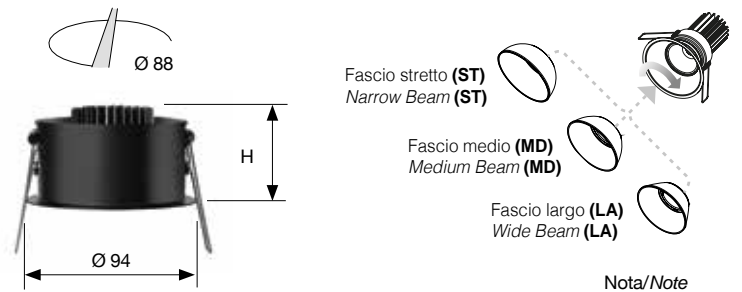
Ottica MD 40°



Ottica LA 60°



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	0.7	1	1.1
2	0.5	2	0.9	2	1.5	2	2.3
3	1.7	3	1.3	3	2.2	3	3.5
4	1.0	4	1.8	4	2.9	4	4.6
5	1.2	5	2.2	5	3.6	5	5.8



H 55 = 240 mA  
 H 55 = 250 mA  
 H 55 = 350 mA  
 H 85 = 500 mA  
 H 85 = 700 mA

**Orientabilità**  
**Adjustability**  
 Asse X / Axis X 45°  
 Asse Y / Axis Y 45°

Nota/Note  
 Ottiche intercambiabili  
 Exchangeable optics

# MICRO GIRO LENS

FASCIO/BEAM/FAISCEAU/HAZ ST | MD | LA

Apparecchio LED da incasso.  
 Recessed LED downlight.  
 Luminaire LED encastré.  
 Luminaria LED de empotrar.

Corpo in lamiera tornita, gruppo cardanico pressofuso in alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD). Emergenza autonomia 1h/3h.

Turned sheet metal body, die-cast aluminium cardan group painted with epoxy powder after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps en tôle tournée, cardan en aluminium moulé sous pression avec traitement époxy. Dissipateur en aluminium extrudé. Optique lenticulaire en polycarbonate à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL). Spécifier la fonction PUSH DIM (réf. PD). Autonomie d'urgence 1h/3h.

Cuerpo de chapa torneada con grupo óptico orientable de aluminio fundido a presión y recubierto con polvo epoxi previamente fosfatado. Óptica lenticular de policarbonato de haz amplio (cod. LA) haz medio (cod. MD) haz estrecho (cod. ST). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cod. DL). Especificar si se requiere con función PUSH DIM (cod. PD). Autonomía de emergencia 1h/3h.



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
890	7	≤ 127	200	HRMCGL1	WW: 2700 W: 3000 X: 3500 N: 4000	ST: fascio stretto narrow beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava  <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
1100	9	≤ 122	250	HRMCGL2		MD: fascio medio medium beam		
1570	13	≤ 121	350	HRMCGL3		LA: fascio largo wide beam		
2150	18	≤ 120	500	HRMCGL4				
2950	26	≤ 114	700	HRMCGL5				

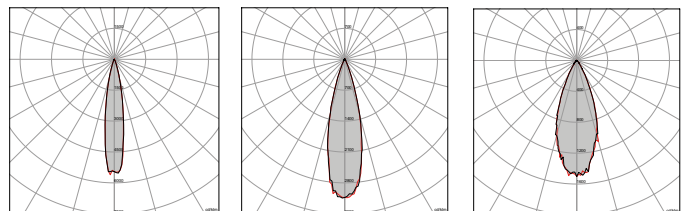


A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

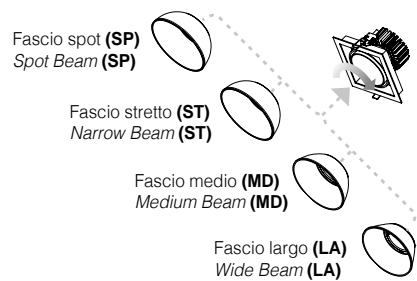
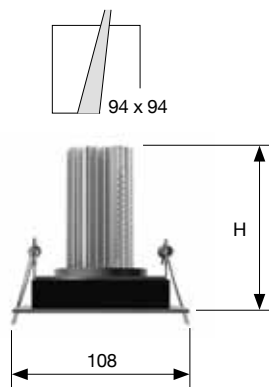
Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

Ottica ST 12°      Ottica MD 25°      Ottica LA 38°



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.2	1	0.4	1	0.7
2	0.4	2	0.8	2	1.4
3	0.6	3	1.3	3	2.1
4	0.8	4	1.7	4	2.7
5	1.0	5	2.1	5	3.4





Nota/Note  
Ottiche intercambiabili senza ausilio di utensili  
Exchangeable optics without using of tools

H 70 =200 mA  
H 70 =250 mA  
H 100 =350 mA  
H 130 =500 mA

**Orientabilità**  
**Adjustability**  
Asse X / Axis X 45°  
Asse Y / Axis Y 45°

## MINIAUTOMA

FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Apparecchio LED da incasso orientabile.

Adjustable recessed LED downlight.

Luminaire LED encastré orientables.

Luminaria LED de empotrar orientables.

Corpo ed anello in pressofusione d'alluminio verniciato con polveri epossidiche previa fosfatizzazione. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD). Emergenza autonomia 1h/3h.

Die-cast aluminium body and ring painted with epoxy powder after phosphating. Extruded aluminium heatsink. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps et bague en aluminium moulé sous pression avec traitement époxy. Optique lenticulaire en polycarbonate à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL). Spécifier la fonction PUSH DIM (réf. PD). Autonomie d'urgence 1H/3H.

Cuerpo y anillo de aluminio fundido a presión recubierto con polvo epoxi previamente fosfatado. Óptica lenticular de policarbonato de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD). Autonomía de emergencia 1h/3h.

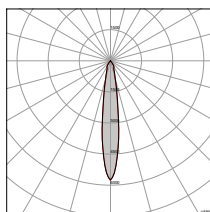


Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
890	7	≤ 127	200	HRMA1	WW: 2700 W:3000 X:3500 N:4000	SP: fascio spot spot beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● <b>Wl:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
1100	9	≤ 122	250	HRMA2		ST: fascio stretto narrow beam		
1570	13	≤ 121	350	HRMA3		MD: fascio medio medium beam		
2150	18	≤ 120	500	HRMA4		LA: fascio largo wide beam		

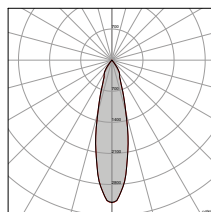


A richiesta | On request

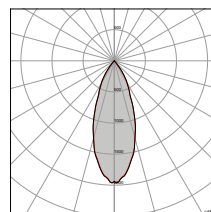
Ottica SP 15°



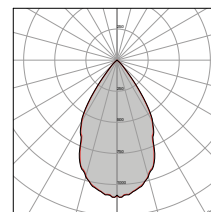
Ottica ST 25°



Ottica MD 40°



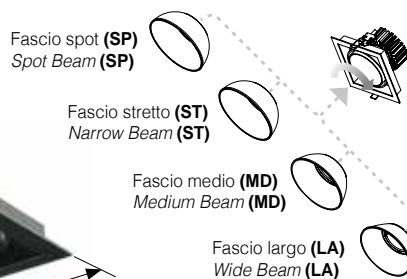
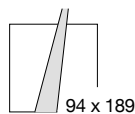
Ottica LA 60°



Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	0.7	1	1.1
2	0.5	2	0.9	2	1.5	2	2.3
3	1.7	3	1.3	3	2.2	3	3.5
4	1.0	4	1.8	4	2.9	4	4.6
5	1.2	5	2.2	5	3.6	5	5.8



Nota/Note  
Ottiche intercambiabili senza ausilio di utensili  
Exchangeable optics without using of tools

H 70 =200 mA  
H 70 =250 mA  
H 100 =350 mA  
H 130 =500 mA

**Orientabilità**  
**Adjustability**  
Asse X / Axis X 45°  
Asse Y / Axis Y 45°

## MINIAUTOMA 2

FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Apparecchio LED da incasso orientabile 2 luci.  
Adjustable recessed LED downlight 2 lights.  
Luminaire LED encastré orientables 2 lumières.  
Luminaria LED de empotrar orientables 2 luzes.

Corpo ed anello in pressofusione d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD), Emergenza autonomia 1h/3h.

Die-cast aluminium body and ring painted with epoxy powder after phosphating. Extruded aluminium heatsink. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps et bague en aluminium moulé sous pression avec traitement époxy. Optique lenticulaire en polycarbonate à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmerable DALI (réf. DL). Spécifier la fonction PUSH DIM (réf. PD). Autonomie d'urgence 1H/3H.

Cuerpo y anillo de aluminio fundido a presión recubierto con polvo epoxi previamente fosfatado. Óptica lenticular de policarbonato de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD). Autonomía de emergencia 1h/3h.

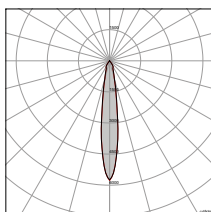


Lumen	Watt	Lumen Watt Out	mA	Code Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1780	2x7	≤ 127	200	<b>HRMA21</b>	<b>WW: 2700</b> <b>W: 3000</b> <b>X: 3500</b> <b>N: 4000</b>	<b>SP:</b> fascio spot spot beam	<b>-:</b> ON/OFF  <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
2200	2x9	≤ 122	250	<b>HRMA22</b>		<b>ST:</b> fascio stretto narrow beam		
3140	2x13	≤ 121	350	<b>HRMA23</b>		<b>MD:</b> fascio medio medium beam		
4300	2x18	≤ 120	500	<b>HRMA24</b>		<b>LA:</b> fascio largo wide beam		

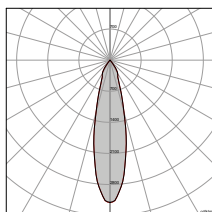


A richiesta | On request

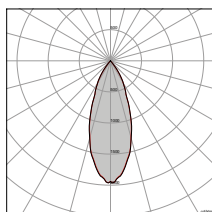
Ottica SP 15°



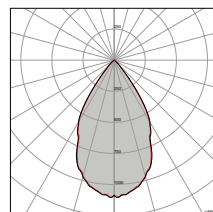
Ottica ST 25°



Ottica MD 40°



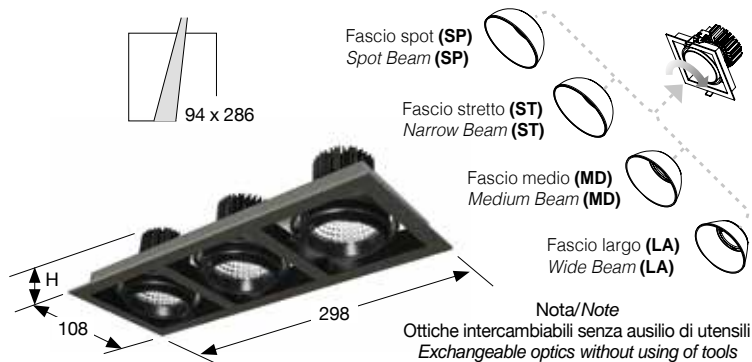
Ottica LA 60°



Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	0.7	1	1.1
2	0.5	2	0.9	2	1.5	2	2.3
3	1.7	3	1.3	3	2.2	3	3.5
4	1.0	4	1.8	4	2.9	4	4.6
5	1.2	5	2.2	5	3.6	5	5.8



H 70 =200 mA  
 H 70 =250 mA  
 H 100 =350 mA  
 H 130 =500 mA

**Orientabilità**  
**Adjustability**  
 Asse X / Axis X 45°  
 Asse Y / Axis Y 45°

## MINIAUTOMA 3

FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Apparecchio LED da incasso orientabile 3 luci.  
 Adjustable recessed LED downlight 3 lights.  
 Luminaire LED encastré orientables 3 lumières  
 Luminaria LED de empotrar orientables 3 luzes.

Corpo ed anello in pressofusione d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD). Emergenza autonomia 1h/3h.

Die-cast aluminium body and ring painted with epoxy powder after phosphating. Extruded aluminium heatsink. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps et bague en aluminium moulé sous pression avec traitement époxy. Optique lenticulaire en polycarbonate à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL). Spécifier la fonction PUSH DIM (réf. PD). Autonomie d'urgence 1H/3H.

Cuerpo y anillo de aluminio fundido a presión recubierto con polvo epoxi previamente fosfatado. Óptica lenticular de policarbonato de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD). Autonomía de emergencia 1h/3h.



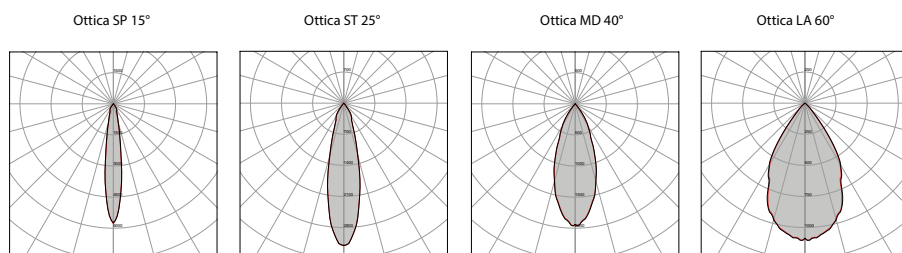
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2670	3x7	≤ 127	200	HRMA31	WW: 2700 W:3000 X:3500 N:4000	SP: fascio spot spot beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● WI: White Irazu ● BLL: Black Lava <b>Su richiesta /On request:</b> ● SB: Silver Bombalai ● BL: Bronze Lario ● RR: Rust Rame ● BF: Beige Futura ● GK: Gold Karkar ● BT: Blue Telica
3300	3x9	≤ 122	250	HRMA32		ST: fascio stretto narrow beam		
4710	3x13	≤ 121	350	HRMA33		MD: fascio medio medium beam		
6450	3x18	≤ 120	500	HRMA34		LA: fascio largo wide beam		



A richiesta | On request

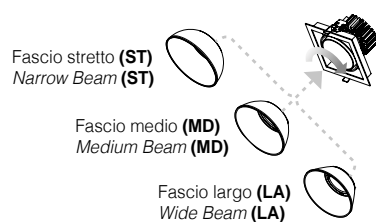
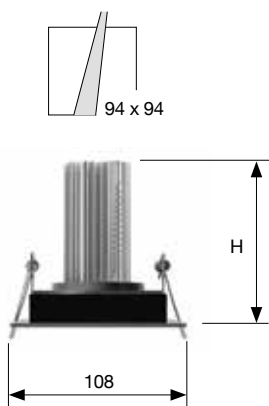
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	0.7	1	1.1
2	0.5	2	0.9	2	1.5	2	2.3
3	1.7	3	1.3	3	2.2	3	3.5
4	1.0	4	1.8	4	2.9	4	4.6
5	1.2	5	2.2	5	3.6	5	5.8





Nota/Note  
 Ottiche intercambiabili  
 Exchangeable optics

H 60 = 200 mA  
 H 60 = 250 mA  
 H 90 = 350 mA  
 H 120 = 500 mA

**Orientabilità**  
**Adjustability**  
 Asse X / Axis X 45°  
 Asse Y / Axis Y 45°

# MINIAUTOMA LENS

FASCIO/BEAM/FAISCEAU/HAZ ST | MD | LA

Apparecchio LED da incasso orientabile.  
 Adjustable recessed LED downlight.  
 Luminaire LED encastré orientables.  
 Luminaria LED de empotrar orientables.

Corpo ed anello in pressofusione d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD). Emergenza autonomia 1h/3h.

Die-cast aluminium body and ring painted with epoxy powder after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps et bague en aluminium moulé sous pression avec traitement époxy. Optique lenticulaire en polycarbonate à faisceau large (réf. LA), faisceau moyen (réf. MD) ou faisceau étroit (réf. ST). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL), spécifier la fonction PUSH DIM (réf. PD). Autonomie d'urgence 1H/3H.

Cuerpo y anillo de aluminio fundido a presión recubierto con polvo epoxi previamente fosfatao. Óptica lenticular de policarbonato de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD). Autonomía de emergencia 1h/3h.



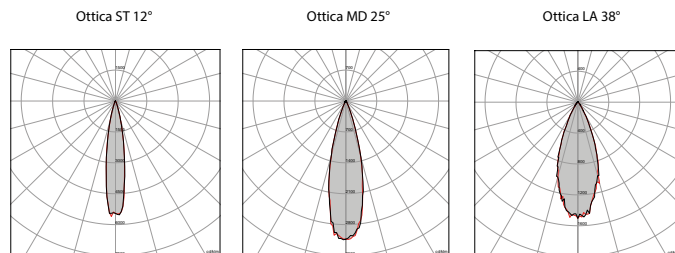
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
890	7	≤ 127	200	<b>HRMAL1</b>	<b>WW: 2700</b> <b>W:3000</b> <b>X:3500</b> <b>N:4000</b>	<b>ST:</b> fascio stretto narrow beam	<b>-:</b> ON/OFF  <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava  <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
1100	9	≤ 122	250	<b>HRMAL2</b>		<b>MD:</b> fascio medio medium beam		
1570	13	≤ 121	350	<b>HRMAL3</b>		<b>LA:</b> fascio largo wide beam		
2150	18	≤ 120	500	<b>HRMAL4</b>				



A richiesta | On request

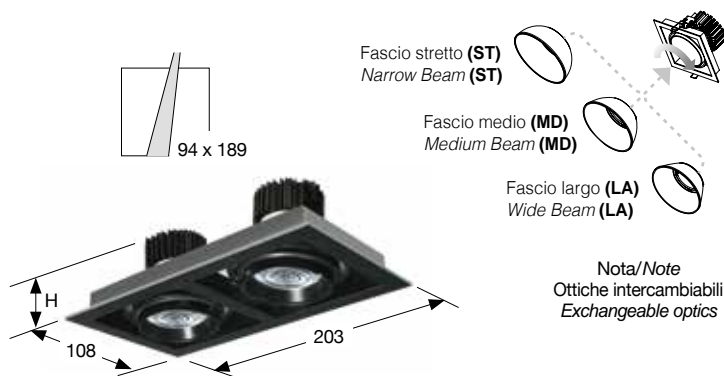
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.2	1	0.4	1	0.7
2	0.4	2	0.8	2	1.4
3	0.6	3	1.3	3	2.1
4	0.8	4	1.7	4	2.7
5	1.0	5	2.1	5	3.4





H 60 = 200 mA  
 H 60 = 250 mA  
 H 90 = 350 mA  
 H 120 = 500 mA

**Orientabilità**  
**Adjustability**  
 Asse X / Axis X 45°  
 Asse Y / Axis Y 45°

## MINIAUTOMA 2 LENS

FASCIO/BEAM/FAISCEAU/HAZ ST | MD | LA

Apparecchio LED da incasso orientabile 2 luci.  
 Adjustable recessed LED downlight 2 lights.  
 Luminaire LED encastré orientables 2 lumières.  
 Luminaria LED de empotrar orientables 2 luzes.

Corpo ed anello in pressofusione d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD). Emergenza autonomia 1h/3h.

Die-cast aluminium body and ring painted with epoxy powder after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps et bague en aluminium moulé sous pression avec traitement époxy. Optique lenticulaire en polycarbonate à faisceau large (réf. LA), faisceau moyen (réf. MD) ou faisceau étroit (réf. ST). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL), spécifier la fonction PUSH DIM (réf. PD). Autonomie d'urgence 1H/3H.

Cuerpo y anillo de aluminio fundido a presión recubierto con polvo epoxi previamente fosfataado. Óptica lenticular de policarbonato de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL); Especificar si se requiere con función PUSH DIM (cód. PD). Autonomía de emergencia 1h/3h.



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1780	2x7	≤ 127	200	<b>HRMAL21</b>	<b>WW: 2700</b> <b>W: 3000</b> <b>X: 3500</b> <b>N: 4000</b>	<b>ST:</b> fascio stretto narrow beam	-: ON/OFF  <b>DL:</b> DALI	<b>Standard:</b>
2200	2x9	≤ 122	250	<b>HRMAL22</b>		<b>MD:</b> fascio medio medium beam		● <b>WL:</b> White Irazu ● <b>BLL:</b> Black Lava
3140	2x13	≤ 121	350	<b>HRMAL23</b>		<b>LA:</b> fascio largo wide beam		<b>Su richiesta / On request:</b>
4300	2x18	≤ 120	500	<b>HRMAL24</b>		● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica		



A richiesta | On request

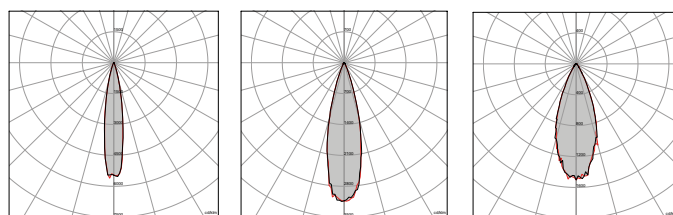
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

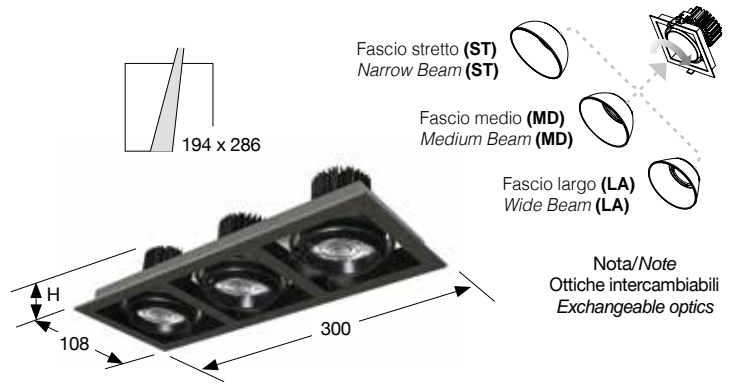
Ottica ST 12°

Ottica MD 25°

Ottica LA 38°



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.2	1	0.4	1	0.7
2	0.4	2	0.8	2	1.4
3	0.6	3	1.3	3	2.1
4	0.8	4	1.7	4	2.7
5	1.0	5	2.1	5	3.4



H 60 = 200 mA  
 H 60 = 250 mA  
 H 90 = 350 mA  
 H 120 = 500 mA

**Orientabilità**  
**Adjustability**  
 Asse X / Axis X 45°  
 Asse Y / Axis Y 45°

# MINIAUTOMA 3 LENS

FASCIO/BEAM/FAISCEAU/HAZ ST | MD | LA

Apparecchio LED da incasso orientabile 3 luci.  
 Adjustable recessed LED downlight 3 lights.  
 Luminaire LED encastré orientables 3 lumières.  
 Luminaria LED de empotrar orientables 3 luzes.

Corpo ed anello in pressofusione d'alluminio verniciato con polveri epossidiche previa fosfatizzazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD). Emergenza autonomia 1h/3h.

Die-cast aluminium body and ring painted with epoxy powder after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps et bague en aluminium moulé sous pression avec traitement époxy. Optique lenticulaire en polycarbonate à faisceau large (réf. LA), faisceau moyen (réf. MD) ou faisceau étroit (réf. ST). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL), spécifier la fonction PUSH DIM (réf. PD). Autonomie d'urgence 1H/3H.

Cuerpo y anillo de aluminio fundido a presión recubierto con polvo epoxi previamente fosfatado. Óptica lenticular de policarbonato de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD). Autonomía de emergencia 1h/3h.



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2670	3x7	≤ 127	200	<b>HRMAL31</b>	<b>WW: 2700</b> <b>W: 3000</b> <b>X: 3500</b> <b>N: 4000</b>	<b>ST:</b> fascio stretto narrow beam	-: ON/OFF  <b>DL:</b> DALI	<b>Standard:</b>
3300	3x9	≤ 122	250	<b>HRMAL32</b>		<b>MD:</b> fascio medio medium beam		● <b>WL:</b> White Irazu ● <b>BLL:</b> Black Lava
4710	3x13	≤ 121	350	<b>HRMAL33</b>		<b>LA:</b> fascio largo wide beam		<b>Su richiesta / On request:</b>
6450	3x18	≤ 120	500	<b>HRMAL34</b>		● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica		



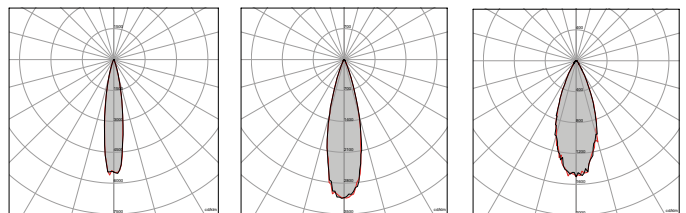
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

Ottica ST 12°

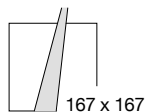
Ottica MD 25°

Ottica LA 38°



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.2	1	0.4	1	0.7
2	0.4	2	0.8	2	1.4
3	0.6	3	1.3	3	2.1
4	0.8	4	1.7	4	2.7
5	1.0	5	2.1	5	3.4





Fascio medio (MD)  
Medium Beam (MD)

Fascio largo (LA)  
Wide Beam (LA)

Nota/Note  
Ottiche intercambiabili  
Exchangeable optics

**Orientabilità**  
**Adjustability**  
Asse X / Axis X 45°  
Asse Y / Axis Y 45°

## AUTOMA LED

FASCIO/BEAM/FAISCEAU/HAZ MD | LA

Apparecchio LED da incasso orientabile.  
Adjustable recessed LED downlight.  
Luminaire LED encastré orientables.  
Luminaria LED de empotrar orientables.

Corpo ed anello in pressofusione d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD). Emergenza autonomia 1h/3h.

Die-cast aluminium body and ring painted with epoxy powder after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louver wide beam (code LA) medium beam (code MD). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps et bague en aluminium moulé sous pression avec traitement époxy. Optique lenticulaire en polycarbonate à faisceau large (réf. LA), faisceau moyen (réf. MD). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL), spécifier la fonction PUSH DIM (réf. PD). Autonomie d'urgence 1h/3h.

Cuerpo y anillo de aluminio fundido a presión recubierto con polvo epoxi previamente fosfado. Óptica lenticular de policarbonato de haz amplio (cód. LA) haz medio (cód. MD). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL); Especificar si se requiere con función PUSH DIM (cód. PD). Autonomía de emergencia 1h/3h.



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1490	12	≤ 124	350	<b>HRAA1</b>	<b>W:3000</b> <b>N:4000</b>	<b>MD:</b> fascio medio medium beam <b>LA:</b> fascio largo wide beam	-: ON/OFF <b>DL:</b> DALI	<b>Standard:</b> <ul style="list-style-type: none"> <li>● <b>WI:</b> White Irazu</li> <li>● <b>BLL:</b> Black Lava</li> </ul> <b>Su richiesta / On request:</b> <ul style="list-style-type: none"> <li>● <b>SB:</b> Silver Bombalai</li> <li>● <b>BL:</b> Bronze Lario</li> <li>● <b>RR:</b> Rust Rame</li> <li>● <b>BF:</b> Beige Futura</li> <li>● <b>GK:</b> Gold Karkar</li> <li>● <b>BT:</b> Blue Telica</li> </ul>
1970	16	≤ 123	450	<b>HRAA2</b>				
2410	20	≤ 120	550	<b>HRAA3</b>				
2770	23,5	≤ 118	650	<b>HRAA4</b>				
3080	26,5	≤ 116	700	<b>HRAA5</b>				
3880	32,5	≤ 119	900	<b>HRAA6</b>				
4420	38,5	≤ 115	1050	<b>HRAA7</b>				



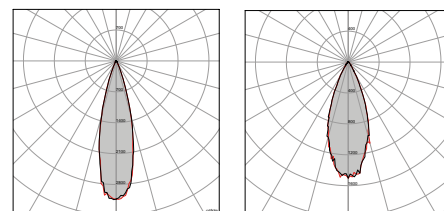
A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

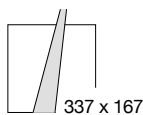
Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

Ottica MD 25°

Ottica LA 38°



H (m)	Ø (m)	H (m)	Ø (m)
1	0.4	1	0.7
2	0.8	2	1.4
3	1.3	3	2.1
4	1.7	4	2.7
5	2.1	5	3.4



Fascio medio (MD)  
Medium Beam (MD)

Fascio largo (LA)  
Wide Beam (LA)

Nota/Note  
Ottiche intercambiabili  
Exchangeable optics

**Orientabilità**  
**Adjustability**  
Asse X / Axis X 45°  
Asse Y / Axis Y 45°

# AUTOMA LED 2

FASCIO/BEAM/FAISCEAU/HAZ MD | LA

Apparecchio LED da incasso orientabile 2 luci.  
Adjustable recessed LED downlight 2 lights.  
Luminaire LED encastré orientables 2 lumières.  
Luminaria LED de empotrar orientables 2 luzes.

Corpo ed anello in pressofusione d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD). Emergenza autonomia 1h/3h.

Die-cast aluminium body and ring painted with epoxy powder after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louver wide beam (code LA) medium beam (code MD). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps et bague en aluminium moulé sous pression avec traitement époxy. Optique lenticulaire en polycarbonate à faisceau large (réf. LA), faisceau moyen (réf. MD). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL), spécifier la fonction PUSH DIM (réf. PD). Autonomie d'urgence 1h/3h.

Cuerpo y anillo de aluminio fundido a presión recubierto con polvo epoxi previamente fosfatao. Óptica lenticular de policarbonato de haz amplio (cód. LA) haz medio (cód. MD). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD). Autonomía de emergencia 1h/3h.



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2980	2x12	≤ 124	350	<b>HRAA21</b>	<b>W:3000</b> <b>N:4000</b>	<b>MD:</b> fascio medio medium beam <b>LA:</b> fascio largo wide beam	<b>-:</b> ON/OFF <b>DL:</b> DALI	<b>Standard:</b> <ul style="list-style-type: none"> <li>● <b>WI:</b> White Irazu</li> <li>● <b>BLL:</b> Black Lava</li> </ul> <b>Su richiesta /On request:</b> <ul style="list-style-type: none"> <li>● <b>SB:</b> Silver Bombalai</li> <li>● <b>BL:</b> Bronze Lario</li> <li>● <b>RR:</b> Rust Rame</li> <li>● <b>BF:</b> Beige Futura</li> <li>● <b>GK:</b> Gold Karkar</li> <li>● <b>BT:</b> Blue Telica</li> </ul>
3940	2x16	≤ 123	450	<b>HRAA22</b>				
4810	2x20	≤ 120	550	<b>HRAA23</b>				
5540	2x23,5	≤ 118	650	<b>HRAA24</b>				
6150	2x26,5	≤ 116	700	<b>HRAA25</b>				
7750	2x32,5	≤ 119	900	<b>HRAA26</b>				
8830	2x38,5	≤ 115	1050	<b>HRAA27</b>				



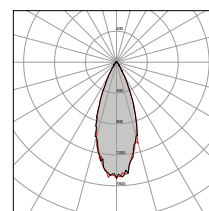
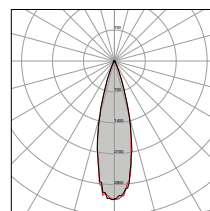
A richiesta | On request

Temperatura ambiente min. - max.: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90.  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

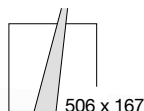
Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90.  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

Ottica MD 25°

Ottica LA 38°



H (m)	Ø (m)	H (m)	Ø (m)
1	0.4	1	0.7
2	0.8	2	1.4
3	1.3	3	2.1
4	1.7	4	2.7
5	2.1	5	3.4



Fascio medio (MD)  
Medium Beam (MD)



Fascio largo (LA)  
Wide Beam (LA)



Nota/Note  
Ottiche intercambiabili  
Exchangeable optics

**Orientabilità**  
**Adjustability**  
Asse X / Axis X 45°  
Asse Y / Axis Y 45°

# AUTOMA LED 3

FASCIO/BEAM/FAISCEAU/HAZ MD | LA

Apparecchio LED da incasso orientabile 3 luci.  
Adjustable recessed LED downlight 3 lights.  
Luminaire LED encastré orientables 3 lumières.  
Luminaria LED de empotrar orientables 3 luzes.

Corpo ed anello in pressofusione d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD). Emergenza autonomia 1h/3h.

Die-cast aluminium body and ring painted with epoxy powder after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louver wide beam (code LA) medium beam (code MD). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps et bague en aluminium moulé sous pression avec traitement époxy. Optique lenticulaire en polycarbonate à faisceau large (réf. LA), faisceau moyen (réf. MD). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL), spécifier la fonction PUSH DIM (réf. PD). Autonomie d'urgence 1h/3h.

Cuerpo y anillo de aluminio fundido a presión recubierto con polvo epoxi previamente fosfado. Óptica lenticular de policarbonato de haz amplio (cód. LA) haz medio (cód. MD). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD). Autonomía de emergencia 1h/3h.



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
4460	3x12	≤ 124	350	HRAA31	W:3000 N:4000	MD: fascio medio medium beam LA: fascio largo wide beam	-: ON/OFF DL: DALI	<b>Standard:</b> ● WI: White Irazu ● BLL: Black Lava <b>Su richiesta / On request:</b> ● SB: Silver Bombalai ● BL: Bronze Lario ● RR: Rust Rame ● BF: Beige Futura ● GK: Gold Karkar ● BT: Blue Telica
5900	3x16	≤ 123	450	HRAA32				
7210	3x20	≤ 120	550	HRAA33				
8300	3x23,5	≤ 118	650	HRAA34				
9220	3x26,5	≤ 116	700	HRAA35				
11620	3x32,5	≤ 119	900	HRAA36				
13240	2x38,5	≤ 115	1050	HRAA37				



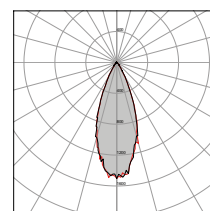
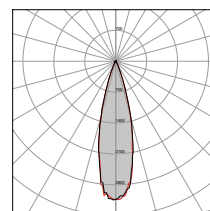
A richiesta | On request

Temperatura ambiente min - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90.  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90.  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

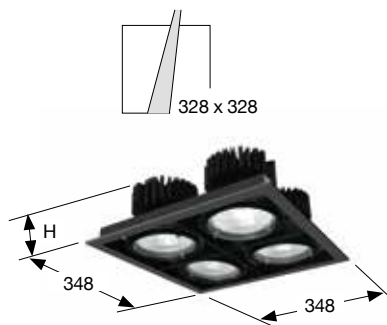
Ottica MD 25°

Ottica LA 38°



H (m)	Ø (m)	H (m)	Ø (m)
1	0.4	1	0.7
2	0.8	2	1.4
3	1.3	3	2.1
4	1.7	4	2.7
5	2.1	5	3.4





Fascio medio (MD)  
Medium Beam (MD)

Fascio largo (LA)  
Wide Beam (LA)

Nota/Note

Ottiche intercambiabili  
Exchangeable optics

**Orientabilità**  
**Adjustability**  
Asse X / Axis X 45°  
Asse Y / Axis Y 45°

## AUTOMA LED 4

FASCIO/BEAM/FAISCEAU/HAZ MD | LA

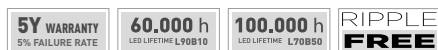
Apparecchio LED da incasso orientabile 4 luci.  
Adjustable recessed LED downlight 4 lights.  
Luminaire LED encastré orientables 4 lumières.  
Luminaria LED de empotrar orientables 4 luzes.

Corpo ed anello in pressofusione d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD). Emergenza autonomia 1h/3h.

Die-cast aluminium body and ring painted with epoxy powder after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louver wide beam (code LA) medium beam (code MD). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps et bague en aluminium moulé sous pression avec traitement époxy. Optique lenticulaire en polycarbonate à faisceau large (réf. LA), faisceau moyen (réf. MD). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL), spécifier la fonction PUSH DIM (réf. PD). Autonomie d'urgence 1h/3h.

Cuerpo y anillo de aluminio fundido a presión recubierto con polvo epoxi previamente fosfado. Óptica lenticular de policarbonato de haz amplio (cód. LA) haz medio (cód. MD). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL); Especificar si se requiere con función PUSH DIM (cód. PD). Autonomía de emergencia 1h/3h.



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
5950	4x12	≤ 124	350	HRAA41	W:3000 N:4000	MD: fascio medio medium beam LA: fascio largo wide beam	-: ON/OFF DL: DALI	<b>Standard:</b> ● WI: White Irazu ● BLL: Black Lava <b>Su richiesta /On request:</b> ● SB: Silver Bombalai ● BL: Bronze Lario ● RR: Rust Rame ● BF: Beige Futura ● GK: Gold Karkar ● BT: Blue Telica
7870	4x16	≤ 123	450	HRAA42				
9620	4x20	≤ 120	550	HRAA43				
11070	4x23,5	≤ 118	650	HRAA44				
11290	4x26,5	≤ 116	700	HRAA45				
15490	4x32,5	≤ 119	900	HRAA46				
17660	4x38,5	≤ 115	1050	HRAA47				



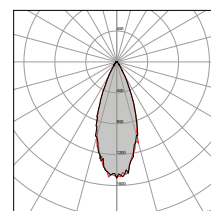
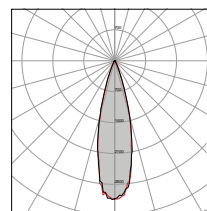
A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

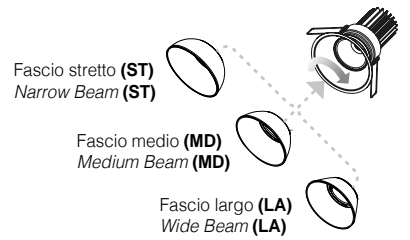
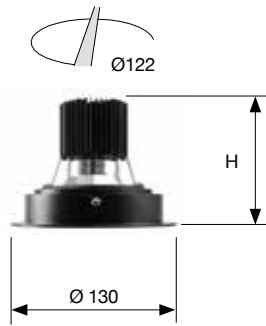
Ottica MD 25°

Ottica LA 38°



H (m)	Ø (m)	H (m)	Ø (m)
1	0.4	1	0.7
2	0.8	2	1.4
3	1.3	3	2.1
4	1.7	4	2.7
5	2.1	5	3.4





Nota/Note  
Ottiche intercambiabili  
Exchangeable optics

H 95 = 500 mA  
H 95 = 600 mA  
H 125 = 700 mA  
H 125 = 800 mA

**Orientabilità**  
**Adjustability**  
Asse X / Axis X 45°

## SII ORIENT LENS

FASCIO/BEAM/FAISCEAU/HAZ ST | MD | LA

Apparecchio LED da incasso orientabile.  
Adjustable recessed LED downlight.  
Luminaire LED encastré orientables.  
Luminaria LED de empotrar orientables.

Corpo in lamiera tornita, gruppo orientabile pressofuso in alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD). Emergenza autonomia 1h/3h.

Turned sheet metal body, die-cast aluminium adjustable group painted with epoxy powder after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps en tôle tournée, groupe pivotant en aluminium moulé sous pression, avec traitement époxy. Dissipateur en aluminium extrudé. Optique lenticulaire en polycarbonate à faisceau large (réf. LA) faisceau moyen (réf. ST) faisceau étroit (réf. ST). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL). Spécifier la fonction PUSH DIM (réf. PD). Autonomie d'urgence 1h/3h.

Cuerpo de chapa torneada con grupo óptico orientable de aluminio fundido a presión y recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica lenticular de policarbonato haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica separada ON/OFF. A pedido: regulación DALI (cód. DL). Especificar si se requiere con la función PUSH DIM (cód. PD). Autonomía de emergencia 1h / 3h.



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2150	18	≤ 120	500	HRSIOL1	WW: 2700 W: 3000 X: 3500 N: 4000	ST: fascio stretto narrow beam	-: ON/OFF DL: DALI	<b>Standard:</b> ● WI: White Irazu ● BLL: Black Lava  <b>Su richiesta / On request:</b> ● SB: Silver Bombalai ● BL: Bronze Lario ● RR: Rust Rame ● BF: Beige Futura ● GK: Gold Karkar ● BT: Blue Telica
2550	22	≤ 116	600	HRSIOL2		MD: fascio medio medium beam		
2950	26	≤ 114	700	HRSIOL3		LA: fascio largo wide beam		
3350	30	≤ 112	800	HRSIOL4				



A richiesta | On request

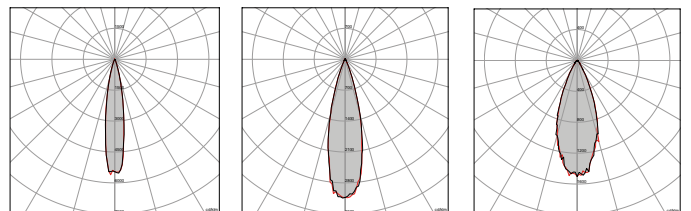
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90.  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90.  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

Ottica ST 12°

Ottica MD 25°

Ottica LA 38°

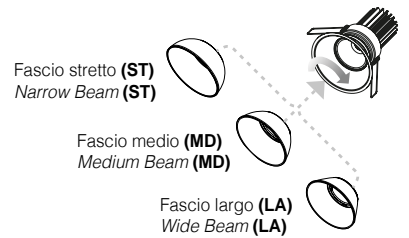
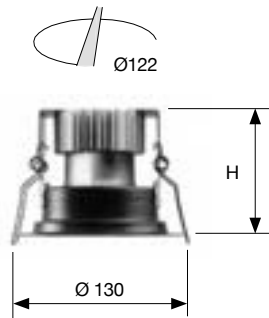


H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.2	1	0.4	1	0.7
2	0.4	2	0.8	2	1.4
3	0.6	3	1.3	3	2.1
4	0.8	4	1.7	4	2.7
5	1.0	5	2.1	5	3.4





E1 →



Nota/Note  
 Ottiche intercambiabili  
 Exchangeable optics

H 95 = 500 mA  
 H 95 = 600 mA  
 H 125 = 700 mA  
 H 125 = 800 mA

**Orientabilità**  
**Adjustability**  
 Asse X / Axis X 45°

# ENNE ORIENT LENS

FASCIO/BEAM/FAISCEAU/HAZ ST | MD | LA

Apparecchio LED da incasso orientabile.  
 Adjustable recessed LED downlight.  
 Luminare LED encastré orientables.  
 Luminaria LED de empotrar orientables.

Corpo in lamiera tornita, gruppo orientabile pressofuso in alluminio verniciato con polveri epossidiche previa fosfatizzazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD). Emergenza autonomia 1h/3h.

Turned sheet metal body, die-cast aluminium adjustable group painted with epoxy powder after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps en tôle tournée, groupe pivotant en aluminium moulé sous pression, avec traitement époxy. Dissipateur en aluminium extrudé. Optique lenticulaire en polycarbonate à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL), spécifier la fonction PUSH DIM (réf. PD). Autonomie d'urgence 1h/3h.

cuerpo de chapa torneada con grupo óptico orientable de aluminio fundido a presión y recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica lenticular de policarbonato haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD). Autonomía de emergencia 1h/3h.



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2150	18	≤ 120	500	<b>HRENOL1</b>	<b>WW: 2700</b> <b>W:3000</b> <b>X:3500</b> <b>N:4000</b>	<b>ST:</b> fascio stretto <i>narrow beam</i>	-: ON/OFF  <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava  <b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
2550	22	≤ 116	600	<b>HRENOL2</b>		<b>MD:</b> fascio medio <i>medium beam</i>		
2950	26	≤ 114	700	<b>HRENOL3</b>		<b>LA:</b> fascio largo <i>wide beam</i>		
3350	30	≤ 112	800	<b>HRENOL4</b>				



A richiesta | On request

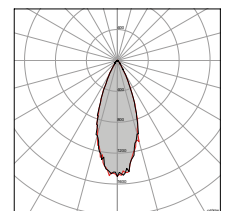
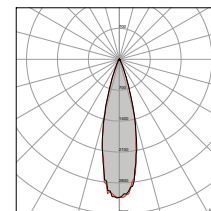
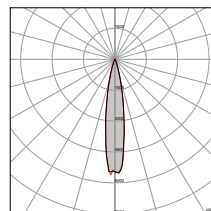
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

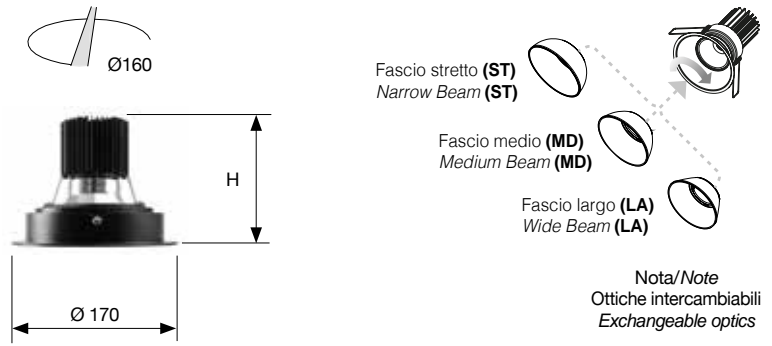
Ottica ST 12°

Ottica MD 25°

Ottica LA 38°



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.2	1	0.4	1	0.7
2	0.4	2	0.8	2	1.4
3	0.6	3	1.3	3	2.1
4	0.8	4	1.7	4	2.7
5	1.0	5	2.1	5	3.4



Nota/Note  
Ottiche intercambiabili  
Exchangeable optics

H 115 = 500 mA  
H 115 = 600 mA  
H 145 = 700 mA  
H 145 = 800 mA

**Orientabilità**  
**Adjustability**  
Asse X / Axis X 45°  
Asse Y / Axis Y 45°

## MINI GIRO LENS

FASCIO/BEAM/FAISCEAU/HAZ ST | MD | LA

Apparecchio LED da incasso orientabile.  
Adjustable recessed LED downlight.  
Luminaire LED encastré orientables.  
Luminaria LED de empotrar orientables.

Corpo in lamiera tornita, gruppo cardanico pressofuso in alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD). Emergenza autonomia 1h/3h.

Turned sheet metal body, die-cast aluminium cardan group painted with epoxy powder after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps en tôle tournée, cardan en aluminium moulé sous pression avec traitement époxy. Dissipateur en aluminium extrudé. Optique lenticulaire en polycarbonate à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL). Spécifier la fonction PUSH DIM (réf. PD). Autonomie d'urgence 1h/3h.

Cuerpo de chapa torneada con anillo de aluminio fundido a presión y recubierto con polvo epoxy previamente fosfatado. Disipador de aluminio extruido. Óptica lenticular de policarbonato haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD). Autonomía de emergencia 1h/3h.



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2150	18	≤ 120	500	HRMGRL1	WW: 2700 W:3000 X:3500 N:4000	ST: fascio stretto narrow beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● <b>W1:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
2550	22	≤ 116	600	HRMGRL2		MD: fascio medio medium beam		
2950	26	≤ 114	700	HRMGRL3		LA: fascio largo wide beam		
3350	30	≤ 112	800	HRMGRL4				



A richiesta | On request

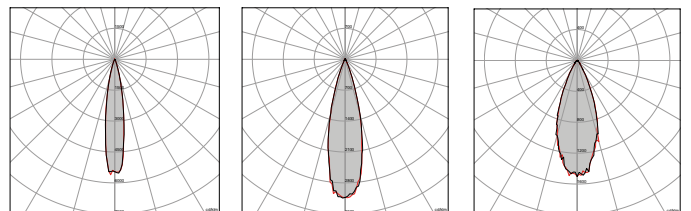
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90.  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90.  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

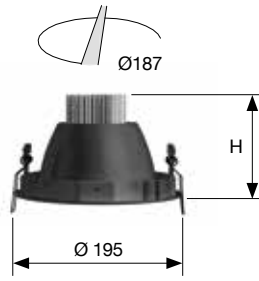
Ottica ST 12°

Ottica MD 25°

Ottica LA 38°



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.2	1	0.4	1	0.7
2	0.4	2	0.8	2	1.4
3	0.6	3	1.3	3	2.1
4	0.8	4	1.7	4	2.7
5	1.0	5	2.1	5	3.4



H 105 = 500 mA  
 H 105 = 600 mA  
 H 135 = 700 mA  
 H 135 = 800 mA

Fascio stretto (ST)  
 Narrow Beam (ST)

Fascio medio (MD)  
 Medium Beam (MD)

Fascio largo (LA)  
 Wide Beam (LA)



**Orientabilità**  
**Adjustability**  
 Asse X / Axis X 45°

Nota/Note  
 Ottiche intercambiabili  
 Exchangeable optics

# ROLLER LENS

FASCIO/BEAM/FAISCEAU/HAZ ST | MD | LA

Apparecchio LED da incasso orientabile.  
 Adjustable recessed LED downlight.  
 Luminaire LED encastré orientables.  
 Luminaria LED de empotrar orientables.

Corpo in lamiera tornita, gruppo cardanico pressofuso in alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD) - Emergenza autonomia 1h/3h.

Turned sheet metal body, die-cast aluminium cardan group painted with epoxy powder after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps en tôle tournée, cardan en aluminium moulé sous pression avec traitement époxy. Dissipateur en aluminium extrudé. Optique lenticulaire en polycarbonate à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL). Spécifier la fonction PUSH DIM (réf. PD). Autonomie d'urgence 1h/3h.

Cuerpo de chapa torneada con anillo de aluminio fundido a presión y recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica lenticular de policarbonato haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD). Autonomía de emergencia 1h/3h.

5Y WARRANTY 5% FAILURE RATE | 60.000 h LED LIFETIME L70B10 | 100.000 h LED LIFETIME L70B50 | RIPPLE FREE

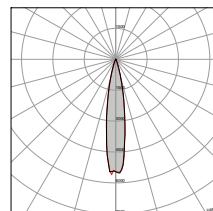
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2150	18	≤ 120	500	HRLL1	WW: 2700 W: 3000 X: 3500 N: 4000	ST: fascio stretto narrow beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
2550	22	≤ 116	600	HRLL2		MD: fascio medio medium beam		
2950	26	≤ 114	700	HRLL3		LA: fascio largo wide beam		
3350	30	≤ 112	800	HRLL4				

A richiesta | On request

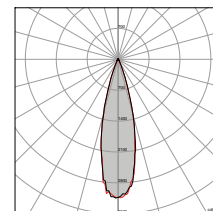
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90.  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90.  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

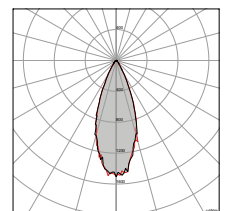
Ottica ST 12°



Ottica MD 25°



Ottica LA 38°



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.2	1	0.4	1	0.7
2	0.4	2	0.8	2	1.4
3	0.6	3	1.3	3	2.1
4	0.8	4	1.7	4	2.7
5	1.0	5	2.1	5	3.4



Fascio medio (MD)  
Medium Beam (MD)

Fascio largo (LA)  
Wide Beam (LA)

Nota/Note  
Ottiche intercambiabili  
Exchangeable optics

Orientabilità  
Adjustability  
Asse X / Axis X 45°  
Asse Y / Axis Y 45°

# GIRO LED

FASCIO/BEAM/FAISCEAU/HAZ MD | LA

Apparecchio LED da incasso orientabile.  
Adjustable recessed LED downlight.  
Luminaire LED encastré orientables.  
Luminaria LED de empotrar orientables.

Corpo ed anello in alluminio pressofuso verniciati con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso ed anodizzato. Ottica in alluminio anodizzato satinato fascio largo (cod. LA) o lucido fascio medio (cod. MD). Sistema di fissaggio ad incasso. Non idonea per applicazione esterna. Sorgente luminosa LED. Emissione diretta. Alimentazione elettronica separata ON/OFF. A richiesta dimmerabile DALI (cod. DL) specificare se con funzione PUSH DIM (cod. PD).

Die-cast aluminium body and ring painted with epoxy powders after phosphating. Extruded anodized aluminium heatsink. Anodized aluminium louver: satin wide beam (code LA) or polish medium beam (code MD). Recessed fixing system. Not suitable for outdoor application. LED light source. Direct light emission. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). PUSH-DIM function (code PD) to be requested.

Corps et colorette de finition en aluminium moulé à la presse, peint avec peinture epoxy poudré après phosphatation. Dissipateur en aluminium extrudé et anodisé. Optique en aluminium anodisé satiné à faisceau large (code LA) ou poli à faisceau moyen (code MD). Système de fixation à encastrement. Non adapté en extérieur. Souce lumineuse LED. Émission directe. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI, spé citer la fonction PUSH-DIM (code PD).

Carcasa y anillo en aluminio fundido a presión recubierto con polvo epoxi previamente fosfatado. Difusor de aluminio extruido y anodizado. Óptica de aluminio anodizado. Sistema de fijación de empotrar. Fuente de iluminación LED. Emisión directa. No apta para aplicación en exteriores. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL) especificar si se requiere con función PUSH DIM (cód. PD).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1490	12	≤ 124	350	HRGR1	WW: 2700 W:3000 X:3500 N:4000	MD: fascio medio medium beam LA: fascio largo wide beam	-: ON/OFF DL: DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BL:</b> Black Lava <b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
2100	16	≤ 131	450	HRGR2				
2400	20	≤ 120	550	HRGR3				
2760	23,5	≤ 117	650	HRGR4				
2980	26,5	≤ 112	700	HRGR5				
3910	32,5	≤ 120	900	HRGR6				
4460	38,5	≤ 116	1050	HRGR7				



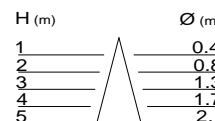
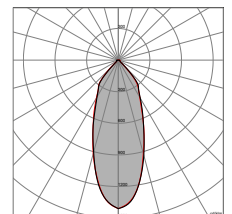
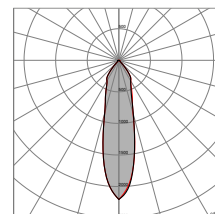
A richiesta | On request

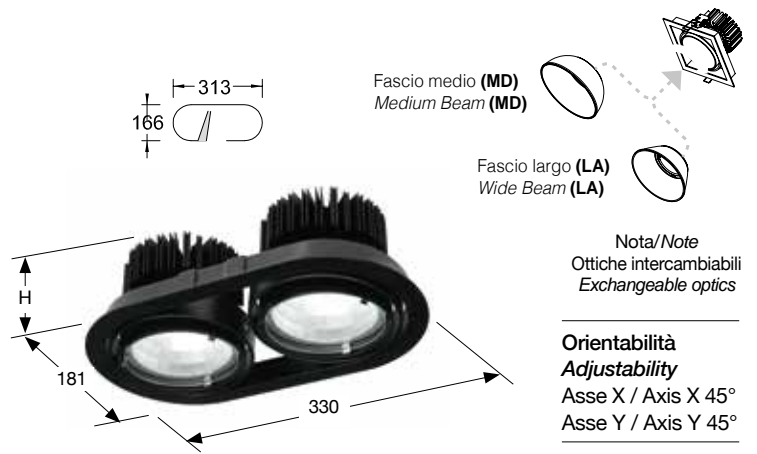
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

Fascio/Beam | MD

Fascio/Beam | LA





## GIRO LED 2

FASCIO/BEAM/FAISCEAU/HAZ MD | LA

Apparecchio LED da incasso orientabile 2 luci.  
Adjustable recessed LED downlight 2 lights.  
Luminaire LED encastré orientables 2 lumières.  
Luminaria LED de empotrar orientables 2 luzes.

Corpo ed anello in alluminio pressofuso verniciati con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso ed anodizzato. Ottica in alluminio anodizzato satinato fascio largo (cod. LA) o lucido fascio medio (cod. MD). Sistema di fissaggio ad incasso. Non idonea per applicazione esterna. Sorgente luminosa LED. Emissione diretta. Alimentazione elettronica separata ON/OFF. A richiesta dimmerabile DALI (cod. DL) specificare se con funzione PUSH DIM (cod. PD).

Die-cast aluminium body and ring painted with epoxy powders after phosphating. Extruded anodized aluminium heatsink. Anodized aluminium louver: satin wide beam (code LA) or polished medium beam (code MD). Recessed fixing system. Not suitable for outdoor application. LED light source. Direct light emission. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). PUSH-DIM function (code PD) to be requested.

Corps et colorette de finition en aluminium moulé à la presse, peint avec peinture epoxy poudré après phosphatation. Dissipateur en aluminium extrudé et anodisé. Optique en aluminium anodisé satiné à faisceau large (code LA) ou poli à faisceau moyen (code MD). Système de fixation à encastrement. Non adapté en extérieur. Source lumineuse LED. Émission directe. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI, spécifier la fonction PUSH-DIM (code PD).

Carcasa y anillo en aluminio fundido a presión recubierto con polvo epoxi previamente fosfatado. Difusor de aluminio extruido y anodizado. Óptica de aluminio anodizado. Sistema de fijación de empotrar. Fuente de iluminación LED. Emisión directa. No apta para aplicación en exteriores. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL) especificar si se requiere con función PUSH DIM (cód. PD).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2980	2x12	≤ 124	350	HRGR21	WW: 2700 W:3000 X:3500 N:4000	MD: fascio medio medium beam LA: fascio largo wide beam	-: ON/OFF DL: DALI	<b>Standard:</b> ● WI: White Irazu ● BLL: Black Lava <b>Su richiesta /On request:</b> ● SB: Silver Bombalai ● BL: Bronze Lario ● RR: Rust Rame ● BF: Beige Futura ● GK: Gold Karkar ● BT: Blue Telica
3920	2x16	≤ 123	450	HRGR22				
4790	2x20	≤ 120	550	HRGR23				
5520	2x23,5	≤ 118	650	HRGR24				
5970	2x26,5	≤ 116	700	HRGR25				
7820	2x32,5	≤ 119	900	HRGR26				
8920	2x38,5	≤ 115	1050	HRGR27				

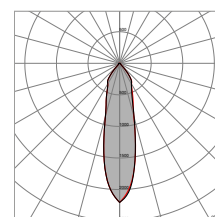


A richiesta | On request

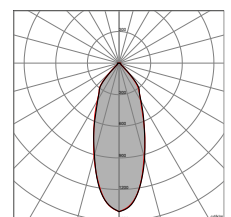
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

Fascio/Beam | MD

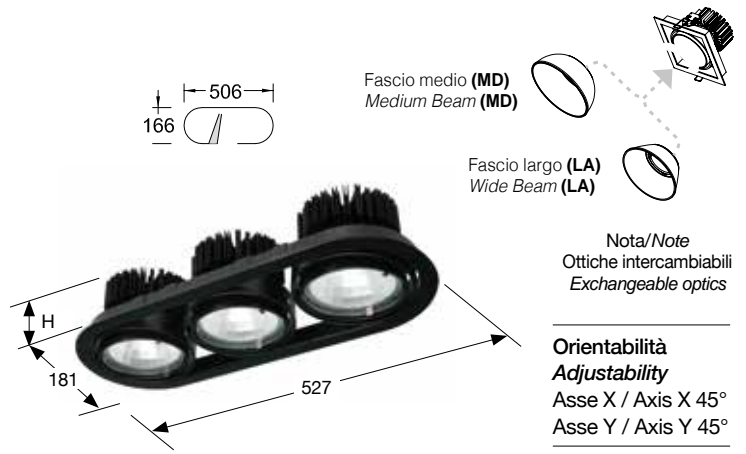


Fascio/Beam | LA



H (m)	Ø (m)	H (m)	Ø (m)
1	0.4	1	0.7
2	0.8	2	1.5
3	1.3	3	2.2
4	1.7	4	2.9
5	2.1	5	3.6





Nota/Note  
 Ottiche intercambiabili  
 Exchangeable optics

**Orientabilità**  
**Adjustability**  
 Asse X / Axis X 45°  
 Asse Y / Axis Y 45°

# GIRO LED 3

FASCIO/BEAM/FAISCEAU/HAZ ST | MD | LA

Apparecchio LED da incasso orientabile 3 luci.  
 Adjustable recessed LED downlight 3 lights.  
 Luminaire LED encastré orientables 3 lumières.  
 Luminaria LED de empotrar orientables 3 luzes.



Corpo ed anello in alluminio pressofuso verniciati con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso ed anodizzato. Ottica in alluminio anodizzato satinato fascio largo (cod. LA) o lucido fascio medio (cod. MD). Sistema di fissaggio ad incasso. Non idonea per applicazione esterna. Sorgente luminosa LED. Emissione diretta. Alimentazione elettronica separata ON/OFF. A richiesta dimmerabile DALI (cod. DL) specificare se con funzione PUSH DIM (cod. PD).

Die-cast aluminium body and ring painted with epoxy powders after phosphating. Extruded anodized aluminium heatsink. Anodized aluminium louver: satin wide beam (code LA) or polish medium beam (code MD). Recessed fixing system. Not suitable for outdoor application. LED light source. Direct light emission. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). PUSH-DIM function (code PD) to be requested.

Corps et colorette de finition en aluminium moulé à la presse, peint avec peinture epoxy poudré après phosphatation. Dissipateur en aluminium extrudé et anodisé. Optique en aluminium anodisé satiné à faisceau large (code LA) ou poli à faisceau moyen (code MD). Système de fixation à encastrement. Non adapté en extérieur. Source lumineuse LED. Émission directe. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI, spé cifier la fonction PUSH-DIM (code PD).

Carcasa y anillo en aluminio fundido a presión recubierto con polvo epoxi previamente fosfatado. Difusor de aluminio extruido y anodizado. Óptica de aluminio anodizado. Sistema de fijación de empotrar. Fuente de iluminación LED. Emisión directa. No apta para aplicación en exteriores. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL) especificar si se requiere con función PUSH DIM (cód. PD).

Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
4460	3x12	≤ 124	350	HRGR31	WW: 2700 W:3000 X:3500 N:4000	MD: fascio medio medium beam  LA: fascio largo wide beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava  <b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
5880	3x16	≤ 131	450	HRGR32				
7190	3x20	≤ 120	550	HRGR33				
8280	3x23,5	≤ 117	650	HRGR34				
8950	3x26,5	≤ 112	700	HRGR35				
11720	3x32,5	≤ 120	900	HRGR36				
13380	3x38,5	≤ 116	1050	HRGR37				



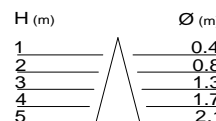
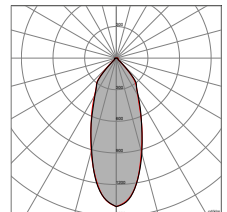
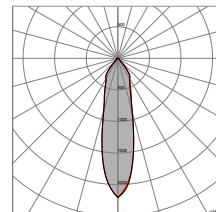
A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

Fascio/Beam | MD

Fascio/Beam | LA





VIKY 55

TUBÌ S

TUBÌ MICRO

DECOR MINI

Apparecchi decorativi per installazione a sospensione.

*Decorative suspensions lighting fittings.*

*Appareil décoratif en suspension.*

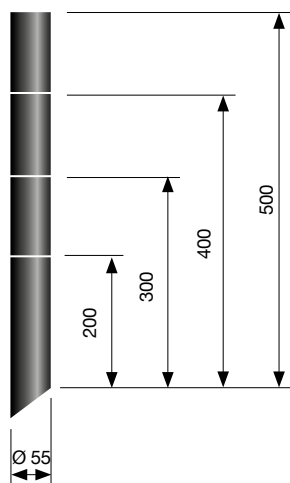
*Luminarias decorativa de suspensión.*

## DECORATIVI A SOSPENSIONE

*DECORATIVE SUSPENSIONS  
DÉCORATIF EN SUSPENSION  
DECORATIVA DE SUSPENSIÓN*







Fascio spot (SP)  
Spot Beam (SP)

Fascio stretto (ST)  
Narrow Beam (ST)

Fascio medio (MD)  
Medium Beam (MD)

Fascio largo (LA)  
Wide Beam (LA)

Nota/Note  
Ottiche intercambiabili senza ausilio di utensili  
Exchangeable optics without using of tools

# VIKY 55

FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Sospensione tubolare decorativa Ø 55 taglio inclinato.  
Decorative tubular suspension Ø 55 inclined cut.  
Suspension tubulaire décorative Ø55 avec coupe biseauté.  
Suspensión decorativa tubular Ø55 con corte inclinado.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a sospensione (completo di cavo L. 2 mt e rosone) o a plafone. Alimentazione elettronica integrata ON/OFF. A richiesta: dimmerabile DALI (cod. DL) specificare se con funzione PUSH DIM (cod. PD).

Extruded aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Suspension mounting system (complete with cable 2 mt length and ceiling rose) or ceiling mounting system. Built-in electronic driver ON/OFF. On request: dimmable DALI (code DL) PUSH DIM function (code PD) to be requested.

Corps et dissipateur en aluminium extrudé, corps avec traitement époxy. Optique en polycarbonate métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Système de fixation en suspension (complet avec un câble de 2m et rosace) ou montage au plafond. Alimentation électronique ON/OFF intégrée. Sur demande: dimmable DALI (réf. DL). Spécifier la fonction PUSH DIM (réf. PD).

Cuerpo de aluminio extruido recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Sistema de fijación en suspensión (con 2m de cable y roseta incluidos) o montaje en techo. Alimentación electrónica ON/OFF integrada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD).

5Y WARRANTY 5% FAILURE RATE | 60.000 h LED LIFETIME L70B10 | 100.000 h LED LIFETIME L70B50 | RIPPLE FREE

Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour				
<b>VIKY 55 200</b>												
1100	9	≤ 122	250	HRVK21	WW: 2700 W:3000 X:3500 N:4000	SP: fascio spot spot beam  ST: fascio stretto narrow beam  MD: fascio medio medium beam  LA: fascio largo wide beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica				
1550	13	≤ 119	350	HRVK22								
<b>VIKY 55 300</b>												
1100	9	≤ 122	250	HRVK31								
1550	13	≤ 119	350	HRVK32								
1850	16	≤ 116	450	HRVK33								
<b>VIKY 55 400</b>												
1100	9	≤ 122	250	HRVK41								
1550	13	≤ 119	350	HRVK42								
1850	16	≤ 116	450	HRVK43								
<b>VIKY 55 500</b>												
1100	9	≤ 122	250	HRVK51								
1550	13	≤ 119	350	HRVK52								
1850	16	≤ 116	450	HRVK53								

CE | >90 CRF | 3SDCM | IP44 EN 60529 | IK 07 EN 60088  
 230 V 2014/25/EU | 50/60 Hz | 850° EN 60695 | RG 0 EN 62471 |

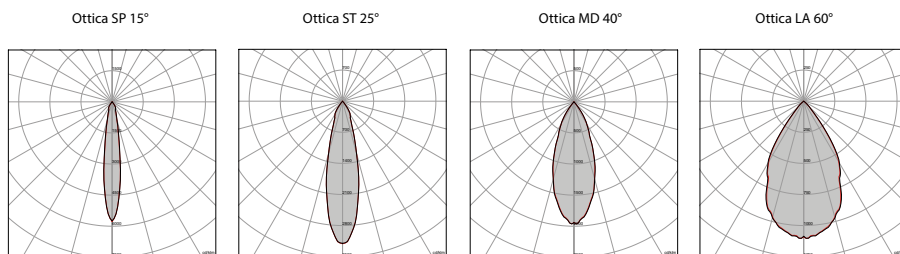
DL DALI | PD PUSH DIM | DIM W | >80 CRF | >95 CRF

VIVID PLUS | VEG PLUS | WHITE PLUS | MEAT PLUS

A richiesta | On request

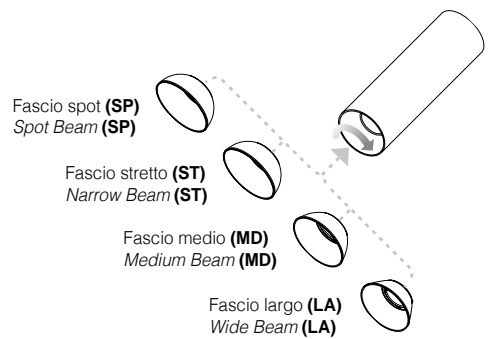
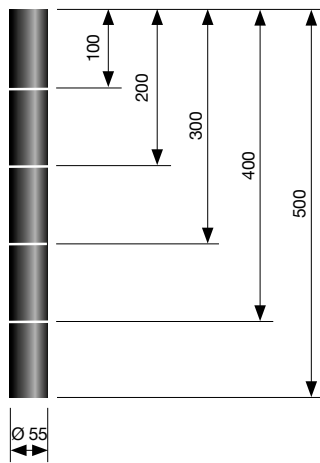
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	0.7	1	1.1
2	0.5	2	0.9	2	1.5	2	2.3
3	1.7	3	1.3	3	2.2	3	3.5
4	1.0	4	1.8	4	2.9	4	4.6
5	1.2	5	2.2	5	3.6	5	5.8





Nota/Note  
 Ottiche intercambiabili senza ausilio di utensili  
 Exchangeable optics without using of tools

# TUBÌ S

FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Sospensione tubolare decorativa Ø 55.  
 Decorative tubular suspension Ø 55.  
 Suspension tubulaire décorative Ø55.  
 Suspensión decorativa tubular Ø55.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatatura. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a sospensione (completo di cavo L. 2 mt e rosone) o a plafone. Alimentazione elettronica integrata ON/OFF. A richiesta: dimmerabile DALI (cod. DL) specificare se con funzione PUSH DIM (cod. PD). \* Tubi S100 DALI alimentazione remota.

Extruded aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Suspension mounting system (complete with cable 2 mt length and ceiling rose) or ceiling mounting system. Built-in electronic driver ON/OFF. On request: dimmable DALI (code DL) PUSH DIM function (code PD) to be requested. \* Tubi S100 DALI remote power supply.

Corps en aluminium extrudé avec traitement époxy. Dissipateur en aluminium extrudé. Optique en polycarbonate métallisé à faisceau large (réf. LA) moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Système de fixation en suspension (complet avec un câble de 2m et rosace) ou montage au plafond. Alimentation électronique ON/OFF intégrée. Sur demande: dimmable DALI (réf. DL). Spécifier la fonction PUSH DIM (réf. PD). \*TUBI S100 DALI alimentation à distance.

Cuerpo de aluminio extruido recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Sistema de fijación en suspensión (con 2m de cable y roseta incluidos) o montaje en techo. Alimentación electrónica ON/OFF integrada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD). TUBI S100 DALI alimentación remota.

5Y WARRANTY 5% FAILURE RATE | 60.000 h LED LIFETIME L90B10 | 100.000 h LED LIFETIME L70B50 | RIPPLE FREE

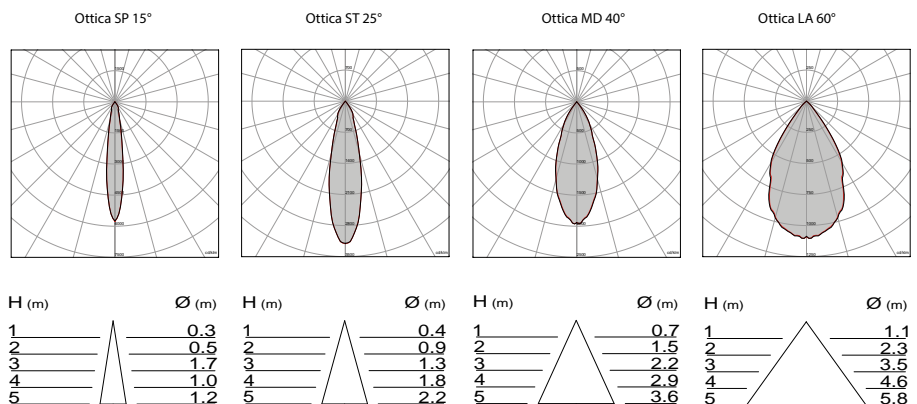
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour				
<b>TUBÌ S100*</b>												
1100	9	≤ 122	250	HRTS11	WW: 2700 W:3000 X:3500 N:4000	SP: fascio spot spot beam ST: fascio stretto narrow beam MD: fascio medio medium beam LA: fascio largo wide beam	-: ON/OFF DL: DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica				
1550	13	≤ 119	350	HRTS12								
<b>TUBÌ S200</b>												
1100	9	≤ 122	250	HRTS21								
1550	13	≤ 119	350	HRTS22								
<b>TUBÌ S300</b>												
1100	9	≤ 122	250	HRTS31								
1550	13	≤ 119	350	HRTS32								
1850	16	≤ 116	450	HRTS33								
<b>TUBÌ S400</b>												
1100	9	≤ 122	250	HRTS41								
1550	13	≤ 119	350	HRTS42								
1850	16	≤ 116	450	HRTS43								
<b>TUBÌ S500</b>												
1100	9	≤ 122	250	HRTS51								
1550	13	≤ 119	350	HRTS52								
1850	16	≤ 116	450	HRTS53								

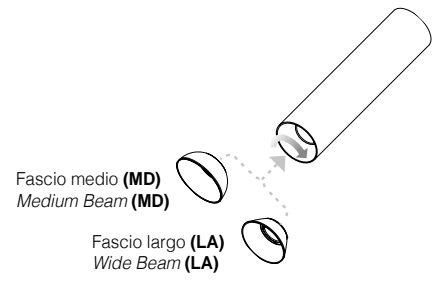
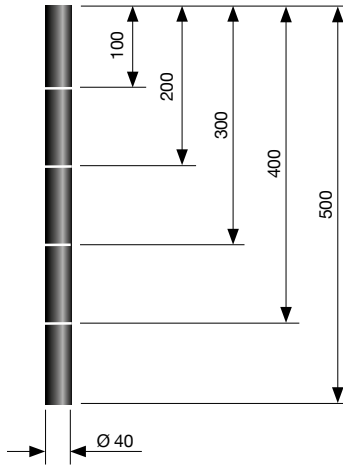
CE | >90 CRI | 3SDCM | IP44 EN 60529 | IK 07 EN 60068  
 230 V 2014/50/EU | 50/60 Hz | 850° EN 60495 | FATED FREE | RG 0 EN 62471  
 DALI | PD PUSH DIM | DIM W | >80 CRI | >95 CRI  
 VIVID PLUS | VEG PLUS | WHITE PLUS | MEAT PLUS

A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%





Nota/Note  
Ottiche intercambiabili senza ausilio di utensili  
Exchangeable optics without using of tools

# TUBÌ MICRO

FASCIO/BEAM/FAISCEAU/HAZ MD | LA

Sospensione tubolare decorativa Ø 40.  
Decorative tubular suspension Ø 40.  
Suspension tubulaire décorative Ø40.  
Suspensión decorativa tubular Ø40.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatizzazione. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a sospensione (completo di cavo L. 2 mt e rosone) o a plafone. Alimentazione elettronica integrata ON/OFF (per S100 alimentazione remota). A richiesta: dimmerabile DALI (cod. DL) specificare se con funzione PUSH DIM (cod. PD) alimentazione remota.

Extruded aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD). LED light source. Direct light emission. Suspension mounting system (complete with cable 2 mt length and ceiling rose) or ceiling mounting system. Built-in electronic driver ON/OFF (Remote driver only for S100). On request: dimmable DALI (code DL) PUSH DIM function (code PD) to be requested, remote power supply.

Corps en aluminium extrudé avec traitement époxy. Dissipateur en aluminium extrudé. Optique en polycarbonate métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD). Source lumineuse LED. Emission directe. Système de fixation en suspension (complet avec un câble de 2m et rosace) ou montage au plafond. Alimentation électronique ON/OFF intégrée (pour alimentation à distance S100). Sur demande: dimmable DALI (réf. DL) spécifier la fonction PUSH DIM (réf. PD) alimentation à distance.

Cuerpo de aluminio extruido recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD). Fuente de iluminación LED. Emisión directa. Sistema de fijación en suspensión (con 2m de cable y roseta) o montaje en techo. Alimentación electrónica ON/OFF integrada (alimentación remota para S100). A pedido: regulación DALI (cód. DL). Especificar si se requiere con la función PUSH DIM (cód. PD) alimentación remota.

5Y WARRANTY 5% FAILURE RATE | 60.000 h LED LIFETIME L90B10 | 100.000 h LED LIFETIME L70B50 | RIPPLE FREE

Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
<b>TUBI M S100</b> 620	6,5	≤ 96	180	<b>HRTMS1</b>	<b>WW: 2700</b> <b>W:3000</b> <b>N:4000</b>	<b>MD:</b> fascio medio medium beam <b>LA:</b> fascio largo wide beam	<b>-:</b> ON/OFF <b>DL:</b> DALI	<b>Standard:</b> <ul style="list-style-type: none"> <li>● <b>WI:</b> White Irazu</li> <li>● <b>BLL:</b> Black Lava</li> </ul> <b>Su richiesta /On request:</b> <ul style="list-style-type: none"> <li>● <b>SB:</b> Silver Bombalai</li> <li>● <b>BL:</b> Bronze Lario</li> <li>● <b>RR:</b> Rust Rame</li> <li>● <b>BF:</b> Beige Futura</li> <li>● <b>GK:</b> Gold Karkar</li> <li>● <b>BT:</b> Blue Telica</li> </ul>
<b>TUBI M S200</b> 620	6,5	≤ 96	180	<b>HRTMS2</b>				
<b>TUBI M S300</b> 620	6,5	≤ 96	180	<b>HRTMS3</b>				
<b>TUBI M S400</b> 620	6,5	≤ 96	180	<b>HRTMS4</b>				
<b>TUBI M S500</b> 620	6,5	≤ 96	180	<b>HRTMS5</b>				

CE | >90 CRI | 3SDCM | IP44 | IK 07 | 230 V | 50/60 Hz | 850° | DALI | RG 0 | EN 62471 | DL DALI | PD PUSH DIM

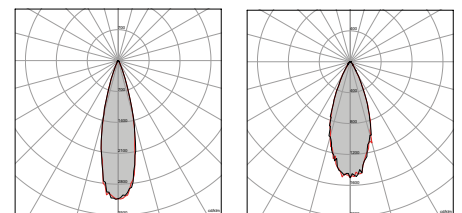
A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

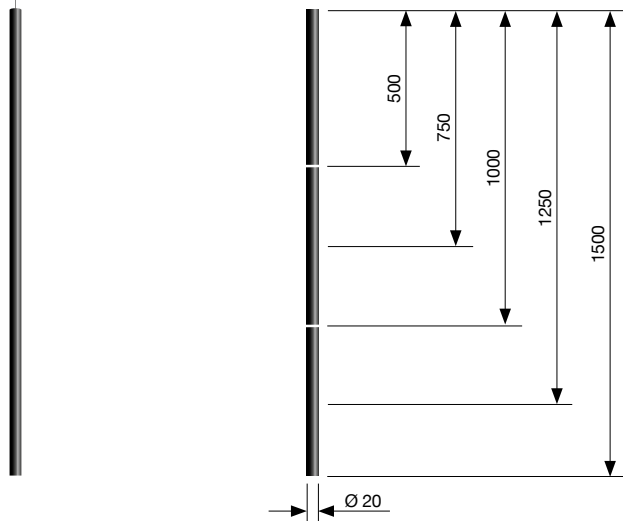
Ottica MD 24°

Ottica LA 36°



H (m)	Ø (m)	H (m)	Ø (m)
1	0.4	1	0.7
2	0.8	2	1.4
3	1.3	3	2.1
4	1.7	4	2.7
5	2.1	5	3.4





# DECOR MINI

## FASCIO/BEAM/FAISCEAU/HAZ MD

Sospensione tubolare decorativa Ø 20.  
Decorative tubular suspension Ø 20.  
Suspension tubulaire décorative Ø20.  
Suspensión decorativa tubular Ø20.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio medio (cod. MD). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a sospensione (completo di cavo L. 2 mt e rosone). Alimentazione 24 Vcc elettronica esterna ON/OFF. Alimentatore non incluso, da ordinare separatamente. A richiesta: dimmerabile 24 Vcc esterna DALI (cod. DL) specificare se con funzione PUSH DIM (cod. PD).

Extruded aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louver medium beam (code MD). LED light source. Direct light emission. Suspension mounting system (complete with cable 2 mt length and ceiling rose). External electronic driver ON/OFF 24 Vcc. Driver not included, to be ordered separately. On request: external dimmable DALI 24 Vcc (code DL) PUSH DIM function (code PD) to be requested.

Corps en aluminium extrudé avec traitement époxy. Dissipateur en aluminium extrudé. Optique lenticulaire en polycarbonate à faisceau moyen (réf. MD). Source lumineuse LED. Emission directe. Système de fixation en suspension (complet avec 2m de câble et rosace) ou fixation au plafond. Alimentation électronique ON/OFF 24 Vcc externe. Sur demande: Dimmable DALI 24Vcc externe (réf. DL). Spécifier la fonction PUSH DIM (réf. PD).

Cuerpo de aluminio extruido recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica lenticular de policarbonato de haz medio (cód. MD). Fuente de iluminación LED. Emisión directa. Sistema de fijación en suspensión (con 2m de cable y roseta) o montaje em techo. Alimentación electrónica 24V ON/OFF externa. A pedido: regulación DALI 24V externa (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
<b>DECOR M50</b> 220	2,1	≤ 104	24	<b>HRDM1</b>	<b>WW: 2700</b> <b>W:3000</b> <b>N:4000</b>	<b>MD:</b> fascio medio medium beam	<b>-:</b> ON/OFF <b>DL:</b> DALI	<b>Standard:</b> <ul style="list-style-type: none"> <li>● <b>WL:</b> White Irazu</li> <li>● <b>BLL:</b> Black Lava</li> </ul> <b>Su richiesta /On request:</b> <ul style="list-style-type: none"> <li>● <b>SB:</b> Silver Bombalai</li> <li>● <b>BL:</b> Bronze Lario</li> <li>● <b>RR:</b> Rust Rame</li> <li>● <b>BF:</b> Beige Futura</li> <li>● <b>GK:</b> Gold Karkar</li> <li>● <b>BT:</b> Blue Telica</li> </ul>
<b>DECOR M75</b> 220	2,1	≤ 104	24	<b>HRDM2</b>				
<b>DECOR M100</b> 220	2,1	≤ 104	24	<b>HRDM3</b>				
<b>DECOR M125</b> 220	2,1	≤ 104	24	<b>HRDM4</b>				
<b>DECOR M150</b> 220	2,1	≤ 104	24	<b>HRDM5</b>				

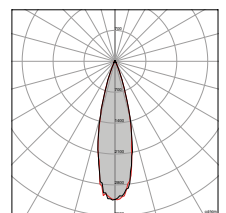


A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

Ottica MD 24°



H (m)	Ø (m)
1	0.4
2	0.8
3	1.3
4	1.7
5	2.1



SPECIALE ROSONI

SPECIAL ROSES

PATÈRES SPÉCIALES

ROSETAS ESPECIALES

A richiesta rosoni speciali con dimensione personalizzabile.

*On request special roses with customizable dimension.*

*Sur demande patères spéciales sur mesure.*

*Bajo pedido rosetas especiales con dimensiones personalizadas.*

## DECORATIVI A SOSPENSIONE

*DECORATIVE SUSPENSIONS*

*DÉCORATIF EN SUSPENSION*

*DECORATIVA DE SUSPENSIÓN*





ARCO



APPOGGIO 595x595 mm



ANELLO



SOLE



ONDA

REAL

TATI

OPO

OPO SLIM

LOFT

COCO LED

COCO LED LENS

BLEK

FOCO

BASKET

LULY SHOP

MACISTE

BOLERO

BOLERINO

PLATÒ

MAGGIOLINA

Sistema di apparecchi illuminotecnici LED a sospensione, plafone e binario.

*Suspension, ceiling and track LED lighting fittings system.*

*Luminaire LED en suspension, en saillie, sur rail.*

*Luminarias LED con montaje en suspensión, en techo, de carril.*

## **SOSPENSIONE PLAFONE BINARIO**

*SUSPENSION CEILING TRACK*

*SUSPENSION SAILLIE RAIL*

*SUSPENSIÓN TECHO CARRIL*

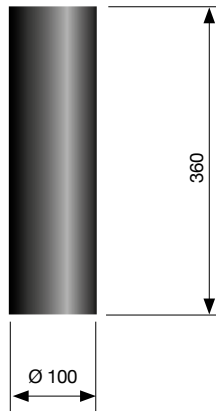




La più dolce delle pause.

Le Specialità Invernali

- Cappuccino € 1,70
- Cappuccino € 1,80
- Cappuccino € 1,90
- Cappuccino di latte € 1,70



# REAL

## FASCIO/BEAM/FAISCEAU/HAZ LA

Sospensione decorativa.  
Decorative suspension.  
Suspension décorative.  
Suspensión decorativa.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Completa di cavo di sospensione L. 2 m e rosone. Dissipatore in alluminio estruso. Ottica in policarbonato opale. Sorgente luminosa LED. Emissione diretta e indiretta. Sistema di fissaggio a sospensione. Per installazione a binario: accessorio attacco a binario (cod. TK). Alimentazione elettronica integrata ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Extruded aluminium body painted with epoxy powders after phosphating. Complete with suspension cable 2 mt length and ceiling rose. Extruded aluminium heatsink. Opal polycarbonate louver. LED light source. Direct and indirect light emission. Suspension mounting system. Track mounting system accessory (cod. TK). Built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium extrudé avec traitement époxy. Fourni avec un câble de suspension de 2m et rosace. Dissipateur en aluminium extrudé. Optique en polycarbonate opal. Source lumineuse LED. Emission directe et indirecte. Fixation en suspension (accessoire pour installation sur rail : réf. TK). Alimentation électronique ON/OFF intégrée. Sur demande: dimmable DALI (réf. DL).

Cuerpo de aluminio extruido recubierto con polvo epoxi previamente fosfatado. Suministrado con 2m de cable de suspensión y roseta. Disipador de aluminio extruido. Óptica de policarbonato opal. Fuente de iluminación LED. Emisión directa e indirecta. Fijación en suspensión (accesorio para instalación en carril: cód. TK). Alimentación electrónica ON/OFF integrada. A pedido: regulación DALI (cód. DL).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1410 + 1330	11 + 11	≤ 128	450	HRRE1	WW: 2700 W:3000 X:3500 N:4000	LA: fascio largo wide beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica

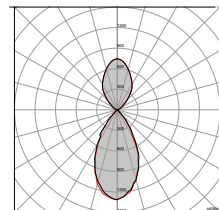


A richiesta | On request

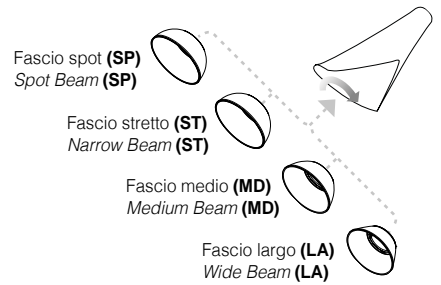
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

Ottica Diretta 53° / Indiretta 70°



H (m)	Ø (m)	H (m)	Ø (m)
1	1.0	5	7.0
2	2.0	4	5.6
3	2.8	3	4.2
4	4.0	2	2.8
5	5.0	1	1.4



Nota/Note  
 Ottiche intercambiabili senza ausilio di utensili  
 Exchangeable optics without using of tools

# TATI

FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Sospensione decorativa con ottiche intercambiabili.  
 Decorative suspension with exchangeable optics.  
 Suspension décorative avec optiques échangeables.  
 Suspensión decorativa con ópticas intercambiables.

Corpo in lastra d'alluminio tornito verniciato con polveri epossidiche previa fosfatazione. Completa di cavo di sospensione L. 2 m e rosone. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a sospensione. Per installazione a binario: accessorio attacco a binario (cod. TK). Alimentazione elettronica integrata ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Turned aluminium body painted with epoxy powders after phosphating. Complete with suspension cable 2 m length and ceiling rose. Extruded aluminium heatsink. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Suspension mounting system. Track mounting system accessory (code TK). Built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en tôle d'aluminium tournée avec traitement époxy. Fourni avec un câble de suspension de 2m et rosace. Dissipateur en aluminium extrudé. Optique en polycarbonate métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD), faisceau étroit (réf. ST) faisceau spot (réf. SP), source lumineuse LED. Emission directe. Fixation en suspension (accessoire pour installation sur rail : réf. TK). Alimentation électronique ON/OFF intégrée. Sur demande: dimmable DALI (réf. DL).

Cuerpo de lámina de aluminio torneada con polvo epoxi previamente fosfatado. Con 2m de cable de suspensión y roseta incluidos. Disipador de aluminio extruido. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Fijación en suspensión (accesorio para instalación en carril: cód. TK). Alimentación electrónica integrada. A pedido: regulación DALI (cód. DL).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
890	7	≤ 127	200	HRTA1	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	<b>SP:</b> fascio spot spot beam <b>ST:</b> fascio stretto narrow beam <b>MD:</b> fascio medio medium beam <b>LA:</b> fascio largo wide beam	-: ON/OFF  <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
1100	9	≤ 122	250	HRTA2				
1350	11	≤ 121	300	HRTA3				

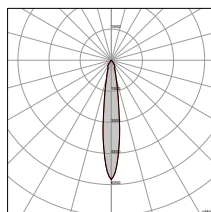


A richiesta | On request

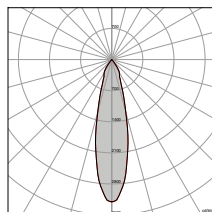
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

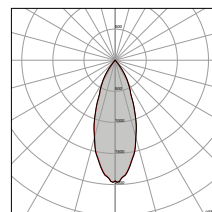
Ottica SP 15°



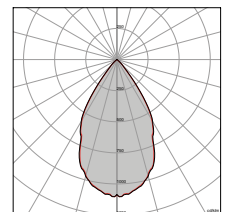
Ottica ST 25°



Ottica MD 40°



Ottica LA 60°



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	0.7	1	1.1
2	0.5	2	0.9	2	1.5	2	2.3
3	1.7	3	1.3	3	2.2	3	3.5
4	1.0	4	1.8	4	2.9	4	4.6
5	1.2	5	2.2	5	3.6	5	5.8





# OPO

## SCHERMO OPALE / OPAL DIFFUSER

Sospensione decorativa.  
Decorative suspension.  
Suspension décorative.  
Suspensión decorativa.

Corpo in lastra d'alluminio tornito verniciato con polveri epossidiche previa fosfatazione. Completa di cavo di sospensione L. 2 m e rosone. Dissipatore in alluminio estruso. Ottica in policarbonato opale. Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a sospensione. Per installazione a binario: accessorio attacco a binario (cod. TK). Alimentazione elettronica integrata ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Turned aluminium body painted with epoxy powders after phosphating. Complete with suspension cable 2 mt length and ceiling rose. Extruded aluminium heatsink. Opal polycarbonate louver. LED light source. Direct light emission. Suspension mounting system. Track mounting system accessory (cod. TK). Built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en tôle d'aluminium tournée avec traitement époxy. Fourni avec un câble de suspension de 2m et rosace. Dissipateur en aluminium extrudé. Optique en polycarbonate opal. Source lumineuse LED. Emission directe. Fixation en suspension (accessoire pour installation sur rail : réf. TK). Alimentation électronique ON/OFF intégrée. Sur demande: dimmable DALI (réf. DL).

Cuerpo de lámina de aluminio torneada con polvo epoxi previamente fosfatado. Con 2m de cable de suspensión y roseta incluidos. Disipador de aluminio extruido. Óptica de policarbonato opal. Fuente de iluminación LED. Emisión directa. Fijación en suspensión (accesorio para instalación en carril: cód. TK). Alimentación electrónica integrada. A pedido: regulación DALI (cód. DL).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Schermo Diffuser	Alimentazione Power Supply	Colore Colour
890	7	≤ 127	200	<b>HROPO1</b>	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	Opale Opal	-: ON/OFF  <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava  <b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
1100	9	≤ 122	250	<b>HROPO2</b>				
1350	11	≤ 121	300	<b>HROPO3</b>				

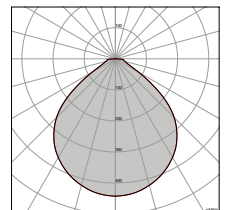


A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

Ottica LA 100°



H (m)	Ø (m)
1	2.4
2	4.8
3	7.2
4	9.5
5	12



# OPO SLIM

## SCHERMO OPALE / OPAL DIFFUSER

Sospensione decorativa.  
Decorative suspension.  
Suspension décorative.  
Suspensión decorativa.

Corpo in lastra d'alluminio tornito verniciato con polveri epossidiche previa fosfatazione. Completa di cavo di sospensione L. 2 m e rosone. Dissipatore in alluminio estruso. Ottica in policarbonato opale. Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a sospensione. Per installazione a binario: accessorio attacco a binario (cod. TK). Alimentazione elettronica integrata ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Turned aluminium body painted with epoxy powders after phosphating. Complete with suspension cable 2 m length and ceiling rose. Extruded aluminium heatsink. Opal polycarbonate louver. LED light source. Direct light emission. Suspension mounting system. Track mounting system accessory (cod. TK). Built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en tôle d'aluminium tournée avec traitement époxy. Fourni avec un câble de suspension de 2m et rosace. Dissipateur en aluminium extrudé. Optique en polycarbonate opal. Source lumineuse LED. Emission directe. Fixation en suspension (accessoire pour installation sur rail : réf. TK). Alimentation électronique ON/OFF intégrée. Sur demande: dimmable DALI (réf. DL).

Cuerpo de lámina de aluminio torneada con polvo epoxi previamente fosfatado. Con 2m de cable de suspensión y roseta incluidos. Disipador de aluminio extruido. Óptica de policarbonato opal. Fuente de iluminación LED. Emisión directa. Fijación en suspensión (accesorio para instalación en carril: cód. TK). Alimentación electrónica integrada. A pedido: regulación DALI (cód. DL).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Schermo Diffuser	Alimentazione Power Supply	Colore Colour
890	7	≤ 127	200	<b>HROPS1</b>	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	Opale Opal	-: ON/OFF  <b>DL:</b> DALI	<b>Standard:</b> ● <b>W1:</b> White Irazu ● <b>BLL:</b> Black Lava  <b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
1100	9	≤ 122	250	<b>HROPS2</b>				
1350	11	≤ 121	300	<b>HROPS3</b>				

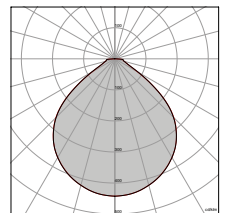


A richiesta | On request

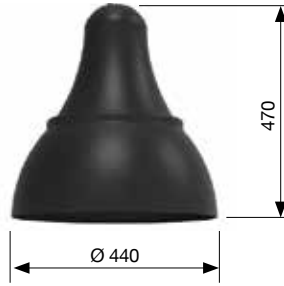
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

Ottica LA 100°



H (m)	Ø (m)
1	2.4
2	4.8
3	7.2
4	9.5
5	12



# LOFT

## SCHERMO OPALE / OPAL DIFFUSER

Sospensione decorativa.  
Decorative suspension.  
Suspension décorative.  
Suspensión decorativa.

Corpo in lastra d'alluminio tornito verniciato con polveri epossidiche previa fosfatazione. Completa di cavo di sospensione L. 2 m e rosone. Dissipatore in alluminio estruso. Ottica in policarbonato opale. Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a sospensione. Per installazione a binario: accessorio attacco a binario (cod. TK). Alimentazione elettronica integrata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Emergenza autonomia 1h/3h..

Turned aluminium body painted with epoxy powders after phosphating. Complete with suspension cable 2 m length and ceiling rose. Extruded aluminium heatsink. Opal polycarbonate louver. LED light source. Direct light emission. Suspension mounting system. Track mounting system accessory (cod. TK). Built-in electronic driver ON/OFF. On request: dimmable DALI (code DL). Emergency autonomy 1h/3h.

Corps en tôle d'aluminium tournée avec traitement époxy. Fourni avec un câble de suspension de 2 m. et rosace. Dissipateur en aluminium extrudé. Optique en polycarbonate opal. Source lumineuse LED. Emission directe. Fixation en suspension (accessoire pour installation sur rail: réf. TK). Alimentation électronique ON/OFF intégrée. Sur demande: dimmable DALI (réf. DL). Autonomie d'urgence 1h/3h.

Cuerpo de lámina de aluminio torneada con polvo epoxi previamente fosfatado. Con 2m de cable de suspensión y roseta incluidos. Disipador de aluminio extruido. Óptica de policarbonato opal. Fuente de iluminación LED. Emisión directa. Fijación en suspensión (accesorio para instalación en carril: cód. TK). Alimentación electrónica ON/OFF integrada. A pedido: regulación DALI (cód. DL). Autonomía de emergencia 1h/3h.

5Y WARRANTY
5% FAILURE RATE
60.000 h
LED LIFETIME L90B10
100.000 h
LED LIFETIME L70B50
RIPPLE FREE

Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1465	11	≤ 131	250	HRLO1	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	Opale Opal	-: ON/OFF  <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava
1975	16	≤ 123	350	HRLO2				<b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
2470	20	≤ 123	450	HRLO3				
2560	22	≤ 116	500	HRLO4				
3275	27	≤ 124	600	HRLO5				

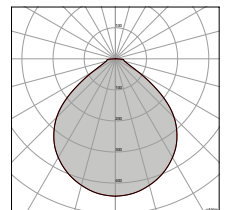
CE
EMC
>90 CRI
3SDCM
IP44
EN 60529
IK 07
EN 60068
230 V
2014/250/EU
50/60 Hz
850°
EN 60895
LED
RG 0
EN 62471
DL DALI
DIM W
>80 CRI
>95 CRI
VIVID PLUS
VEG PLUS
WHITE PLUS
MEAT PLUS
EM
TK

A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

Ottica LA 100°



H (m)	Ø (m)
1	2.4
2	4.8
3	7.2
4	9.5
5	12







## COCO LED

Sospensione LED per l'illuminazione di aree commerciali e negozi.  
*LED fitting for lighting of commercial areas and showroom.*  
 Suspension LED pour l'éclairage de centres commerciaux et magasins.  
 Luminaria de suspensión LED para iluminación de centros comerciales y tiendas.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Completo di cavo di sospensione L. 2 m e rosone. Riflettore in alluminio tornito anodizzato. Vetro di chiusura sabbato. Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a sospensione. Per installazione a binario: accessorio attacco a binario (cod. TK). Alimentazione elettronica integrata ON/OFF. A richiesta dimmerabile DALI (cod. DL). Emergenza autonomia 1h/3h.

*Extruded aluminium body painted with epoxy powders after phosphating. Complete with suspension cable 2 m length and ceiling rose. Anodized turned aluminium reflector. Sandblasted closing glass. LED light source. Direct light emission. Suspension mounting system. Track mounting system accessory (cod. TK). Built-in electronic driver ON/OFF. On request: dimmable DALI (code DL). Emergency autonomy 1h/3h.*

*Corps en aluminium extrudé peint avec des poudres époxy après phosphatation. Vendu avec patère et câble de suspension L. 2 m. Réflecteur en aluminium anodisé. Verre de fermeture sablé. Source de lumière LED. Émission directe. Système de fixation en suspension. Pour l'installation du rail : accessoire de connexion pour rail (code TK). Alimentation électronique intégrée ON/OFF. Sur demande dimmable DALI (réf. DL). Autonomie secours 1h/3h.*

*Cuerpo de aluminio extruido barnizado con polvo epoxi previamente fosfatado. Cable de suspensión de 2 m y roseta incluidos. Reflector de aluminio torneado y anodizado. Vidro de cierre arenado. Fuente de iluminación LED. Emisión directa. Sistema de fijación en suspensión. Instalación para carril: adaptador (código TK). Alimentación electrónica integrada ON/OFF. Bajo pedido: regulable DALI (código DL). Grupo de emergencia de 1h o 3h.*



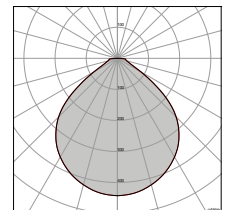
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Schermo Diffuser	Alimentazione Power Supply	Colore Colour
4400	40	≤ 110	250	<b>HRCC1</b>	<b>W:3000 N:4000</b>	vetro sabbato sandblasted glass	-: ON/OFF  <b>DL: DALI</b>	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
5950	58,5	≤ 102	350	<b>HRCC2</b>				
7700	77,5	≤ 99	450	<b>HRCC3</b>				



A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%



H (m)	Ø (m)
1	2.4
2	4.8
3	7.2
4	9.5
5	12



## COCO LED LENS

Sospensione LED per l'illuminazione di aree commerciali e negozi.  
 LED fitting for lighting of commercial areas and showroom.  
 Suspension LED pour l'éclairage de centres commerciaux et magasins.  
 Luminaria de suspensión LED para iluminación de centros comerciales y tiendas.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Completo di cavo di sospensione L. 2 m e rosone. Dissipatore in alluminio estruso. Diffusore e schermo di chiusura in policarbonato opale rigato. Sorgente luminosa LED. Emissione diffusa. Sistema di fissaggio a sospensione. Per installazione a binario: accessorio attacco a binario (cod. TK). Alimentazione elettronica integrata ON/OFF. A richiesta dimmerabile DALI (cod. DL). Emergenza autonomia 1h/3h.

Extruded aluminium body painted with epoxy powders after phosphating. Complete with suspension cable 2 mt length and ceiling rose. Extruded aluminium heatsink. Opal ribbed polycarbonate diffuser and closing screen. LED light source. Diffuse light emission. Suspension mounting system. Track mounting system accessory (cod. TK). Built-in electronic driver ON/OFF. On request: dimmable DALI (code DL). Emergency autonomy 1h/3h.

Corps en aluminium extrudé peint avec des poudres époxy après phosphatation. Vendu avec patère et câble de suspension L. 2 m. Diffuseur et écran de fermeture en polycarbonate opale rainuré. Dissipateur en aluminium extrusé. Source de lumière LED. Émission diffuse. Système de fixation de suspension. Pour l'installation du rail: accessoire de connexion rail (réf. TK). Alimentation électronique intégrée ON/OFF. Sur demande dimmable DALI (réf. DL). Autonomie secours 1h/3h.

Cuerpo de aluminio extruido barnizado con polvo epoxi previamente fosfatado. Cable de suspensión de 2 m y roseta incluidos. Difusor y cierre de policarbonato opal rayado. Disipador de aluminio extruido. Fuente de iluminación LED. Emisión difundida. Sistema de fijación en suspensión. Instalación para carril: adaptador (código TK). Alimentación electrónica integrada ON/OFF. Bajo pedido: regulable DALI (código DL). Grupo de emergencia de 1h o 3h.



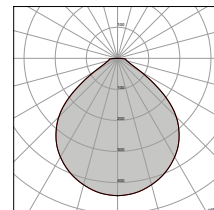
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Schermo Diffuser	Alimentazione Power Supply	Colore Colour
1465	11	≤ 131	250	<b>HRCCL1</b>	<b>W:3000 N:4000</b>	opale rigato ribbed opal	-: ON/OFF  <b>DL: DALI</b>	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
1975	16	≤ 123	350	<b>HRCCL2</b>				
2470	20	≤ 123	450	<b>HRCCL3</b>				



A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%



H (m)	Ø (m)
1	2.4
2	4.8
3	7.2
4	9.5
5	12







## BLEK

Sospensione decorativa.  
Decorative suspension.  
Suspension décorative.  
Suspensión decorativa.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Completa di cavo di sospensione L. 2 m e rosone. Riflettore prismaticizzato in alluminio tornito verniciato. Ottica in policarbonato opale. Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a sospensione. Per installazione a binario: accessorio attacco a binario (cod. TK). Alimentazione elettronica integrata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Emergenza autonomia 1h/3h.

Extruded aluminium body painted with epoxy powders after phosphating. Complete with suspension cable 2 m length and ceiling rose. Painted turned aluminium reflector. Opal polycarbonate louver. LED light source. Direct light emission. Suspension mounting system. Track mounting system accessory (cod. TK). Built-in electronic driver ON/OFF. On request: dimmable DALI (code DL). Emergency autonomy 1h/3h.

Corps en tôle d'aluminium tournée avec traitement époxy. Fourni avec un câble de suspension de 2m. et rosace. Réflecteur prismatique en aluminium tourné peint. Optique en polycarbonate opal. Source lumineuse LED. Emission directe. Fixation en suspension (accessoire pour installation sur rail : réf. TK). Alimentation électronique ON/OFF intégrée. Sur demande: dimmable DALI (réf. DL). Autonomie d'urgence 1h/3h.

Cuerpo de lámina de aluminio torneada con polvo epoxi previamente fosfatado. Con 2m de cable de suspensión y roseta incluidos. Reflector prismático de aluminio torneado pintado. Óptica de policarbonato opal. Fuente de iluminación LED. Emisión directa. Fijación en suspensión (accesorio para instalación en carril: cód. TK). Alimentación electrónica ON/OFF integrada. A pedido: regulación DALI (cód. DL). Autonomía de emergencia 1h/3h.



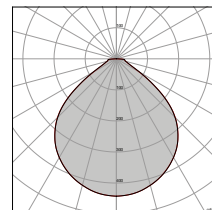
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Schermo Diffuser	Alimentazione Power Supply	Colore Colour
1465	11	≤ 131	250	HRBL1	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	opale opal	-: ON/OFF  <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BL:</b> Black Lava
1975	16	≤ 123	350	HRBL2				<b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
2470	20	≤ 123	450	HRBL3				
2560	22	≤ 116	500	HRBL4				
3275	27	≤ 124	600	HRBL5				



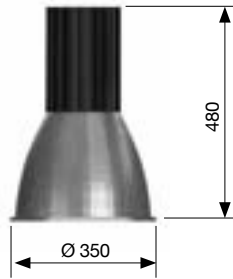
A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%



H (m)	Ø (m)
1	2.4
2	4.8
3	7.2
4	9.5
5	12



# FOCO

Sospensione decorativa.  
Decorative suspension.  
Suspension décorative.  
Suspensión decorativa.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Completa di cavo di sospensione L. 2 m e rosone. Riflettore prismaticizzato in alluminio tornito anodizzato. Ottica in policarbonato opale. Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a sospensione. Per installazione a binario: accessorio attacco a binario (cod. TK). Alimentazione elettronica integrata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Emergenza autonomia 1h/3h.

Extruded aluminium body painted with epoxy powders after phosphating. Complete with suspension cable 2 m length and ceiling rose. Anodized turned aluminium reflector. Opal polycarbonate louver. LED light source. Direct light emission. Suspension mounting system. Track mounting system accessory (cod. TK). Built-in electronic driver ON/OFF. On request: dimmable DALI (code DL). Emergency autonomy 1h/3h.

Corps en tôle d'aluminium tournée, avec traitement époxy. Fourni avec un câble de suspension de 2m. et rosace. Réflecteur prismatique en aluminium tourné et anodisé. Optique en polycarbonate opal. Source lumineuse LED. Emission directe. Fixation en suspension (accessoire pour installation sur rail : réf. TK). Alimentation électronique ON/OFF intégrée. Sur demande: dimmable DALI (réf. DL). Autonomie d'urgence 1h/3h.

Cuerpo de lámina de aluminio torneada con polvo epoxi previamente fosfatado. Con 2m de cable de suspensión y roseta incluidos. Reflector prismático de aluminio torneado y anodizado. Óptica de policarbonato opal. Fuente de iluminación LED. Emisión directa. Fijación en suspensión (accesorio para instalación en carril: cód. TK). Alimentación electrónica ON/OFF integrada. A pedido: regulación DALI (cód. DL). Autonomía de emergencia 1h/3h.



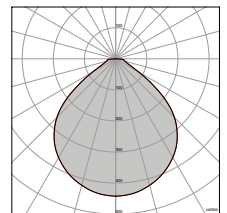
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Schermo Diffuser	Alimentazione Power Supply	Colore Colour
1465	11	≤ 131	250	HRFO1	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	opale opal	-: ON/OFF  <b>DL:</b> DALI	<b>Standard:</b> ● <b>W1:</b> White Irazu ● <b>BLL:</b> Black Lava  <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
1975	16	≤ 123	350	HRFO2				
2470	20	≤ 123	450	HRFO3				
2560	22	≤ 116	500	HRFO4				
3275	27	≤ 124	600	HRFO5				



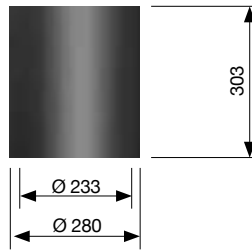
A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%



H (m)	Ø (m)
1	2.4
2	4.8
3	7.2
4	9.5
5	12



## BASKET

Sospensione decorativa.  
Decorative suspension.  
Suspension décorative.  
Suspensión decorativa.

Corpo in lastra d'alluminio tornito verniciato con polveri epossidiche previa fosfatazione. Completa di cavo di sospensione L. 2 m e rosone. Dissipatore in alluminio estruso. Ottica in policarbonato opale. Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a sospensione. Per installazione a binario: accessorio attacco a binario (cod. TK). Alimentazione elettronica integrata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Emergenza autonomia 1h/3h.

Turned aluminium body painted with epoxy powders after phosphating. Complete with suspension cable 2 m length and ceiling rose. Extruded aluminium heatsink. Opal polycarbonate louver. LED light source. Direct light emission. Suspension mounting system. Track mounting system accessory (cod. TK). Built-in electronic driver ON/OFF. On request: dimmable DALI (code DL). Emergency autonomy 1h/3h.

Corps en tôle d'aluminium tournée avec traitement époxy. Fourni avec un câble de suspension de 2m. et rosace. Dissipateur en aluminium extrudé. Optique en polycarbonate opal. Source lumineuse LED. Emission directe. Fixation en suspension (accessoire pour installation sur rail : réf. TK). Alimentation électronique ON/OFF intégrée. Sur demande: dimmable DALI (réf. DL). Autonomie d'urgence 1h/3h.

Cuerpo de lámina de aluminio torneada con polvo epoxi previamente fosfatado. Con 2m de cable de suspensión y roseta incluidos. Disipador de aluminio extruido. Óptica de policarbonato opal. Fuente de iluminación LED. Emisión directa. Fijación en suspensión (accesorio para instalación en carril: cód. TK). Alimentación electrónica ON/OFF integrada. A pedido: regulación DALI (cód. DL). Autonomía de emergencia 1h/3h.



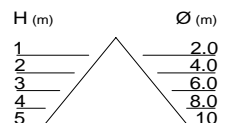
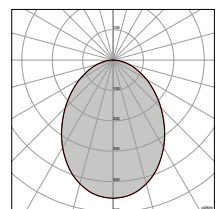
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Schermo Diffuser	Alimentazione Power Supply	Colore Colour
4820	42	≤ 114	350	<b>HRBK1</b>	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	opale opal	-: ON/OFF <b>DL:</b> DALI	<b>Standard:</b> <ul style="list-style-type: none"> <li>● <b>WI:</b> White Irazu</li> <li>● <b>BLL:</b> Black Lava</li> </ul> <b>Su richiesta / On request:</b> <ul style="list-style-type: none"> <li>● <b>SB:</b> Silver Bombalai</li> <li>● <b>BL:</b> Bronze Lario</li> <li>● <b>RR:</b> Rust Rame</li> <li>● <b>BF:</b> Beige Futura</li> <li>● <b>GK:</b> Gold Karkar</li> <li>● <b>BT:</b> Blue Telica</li> </ul>
6100	54	≤ 110	450	<b>HRBK2</b>				
8700	87	≤ 100	700	<b>HRBK3</b>				

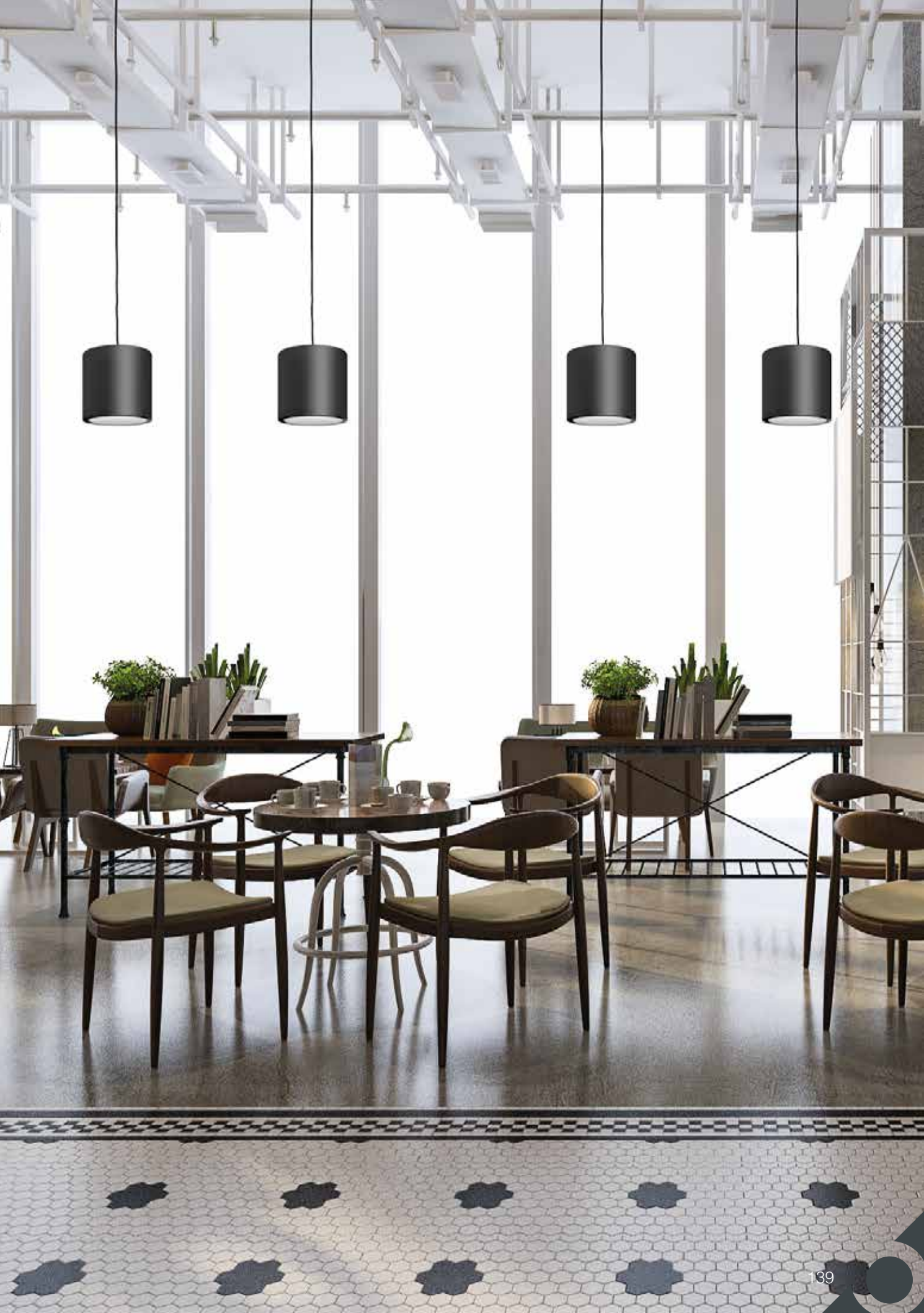


A richiesta | On request

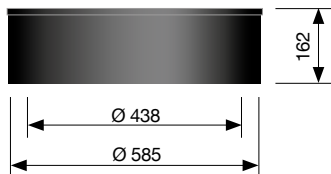
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%









## LULY SHOP

Apparecchio decorativo per installazione a sospensione.  
Decorative suspension lighting fitting.  
Appareil décoratif en suspension.  
Luminaria decorativa de suspensión.

Corpo in alluminio verniciato con polveri epossidiche previa fosfatizzazione. Completo di n. 3 cavi di sospensione L. 2 m e rosone d'alimentazione. Riflettore in alluminio tornito anodizzato. Ottica in vetro satinato. Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a sospensione. Staffa per installazione a plafone cod. HRLUSH-ST. Alimentazione elettronica integrata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Emergenza autonomia 1h/3h.

Extruded aluminium body painted with epoxy powders after phosphating. Complete with no. 3 suspension cables 2m length and power supply ceiling rose. Anodized turned aluminium reflector. Satin glass louver. LED light source. Direct light emission. Suspension mounting system. Ceiling installation bracket code HRLUSH-ST. Built-in electronic driver ON/OFF. On request: dimmable DALI (code DL). Emergency autonomy 1h/3h.

Corps en aluminium extrudé ave traitement époxy. Fourni avec 3 cable de suspension de 2m et rosace de alimentation. Réflecteur en aluminium tourné et anodisé. Optique en verre sablé. Source lumineuse LED. Émission directe. Système de fixation à suspension. Support pour installation au plafond réf. HRLUSH-ST. Alimentation électronique intégrée ON/OFF. Sur demande: dimmable DALI (réf. DL). Autonomie d'urgence 1h/3h.

Cuerpo de aluminio extruido con polvo epoxi previamente fosfatado. 3 cables de suspensión de 2 m y roseta incluidos. Difusor de aluminio torneado y anodizado. Óptica de vidrio esmerilado. Fuente de iluminación LED. Emisión difundida. Sistema de fijación en suspensión. Soporte para instalación en techo cod. HRLUSH-ST. Alimentación electrónica integrada ON/OFF. Bajo pedido: regulable DALI (código DL). Grupo de emergencia de 1h o 3h.



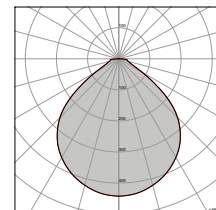
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Schermo Diffuser	Alimentazione Power Supply	Colore Colour
4400	40	≤ 110	250	<b>HRLS1</b>	<b>W:3000</b> <b>N:4000</b>	vetro satinato satin glass	-: ON/OFF  <b>DL:</b> DALI	<b>Standard:</b> <ul style="list-style-type: none"> <li>● <b>WI:</b> White Irazu</li> <li>● <b>BLL:</b> Black Lava</li> </ul> <b>Su richiesta / On request:</b> <ul style="list-style-type: none"> <li>● <b>SB:</b> Silver Bombalai</li> <li>● <b>BL:</b> Bronze Lario</li> <li>● <b>RR:</b> Rust Rame</li> <li>● <b>BF:</b> Beige Futura</li> <li>● <b>GK:</b> Gold Karkar</li> <li>● <b>BT:</b> Blue Telica</li> </ul>
5950	58,5	≤ 102	350	<b>HRLS2</b>				
7700	77,5	≤ 99	450	<b>HRLS3</b>				



A richiesta | On request

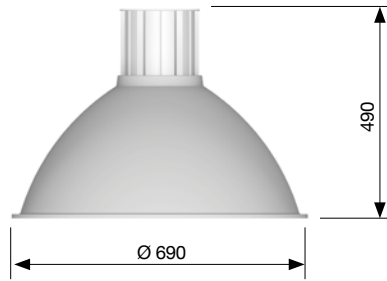
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%



H (m)	Ø (m)
1	2.4
2	4.8
3	7.2
4	9.5
5	12

Accessorio / Accessory  
Staffa per installazione a plafone codice HRLUSH-ST  
Ceiling installation bracket code HRLUSH-ST



## MACISTE

Apparecchio decorativo per installazione a sospensione.  
Decorative suspension lighting fitting.  
Appareil décoratif en suspension.  
Luminaria decorativa de suspensión.

Corpo in alluminio verniciato con polveri epossidiche previa fosfatazione. Completo di cavo di sospensione L. 2 m e rosone d'alimentazione. Riflettore in alluminio tornito anodizzato. Ottica in vetro satinato. Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a sospensione. Alimentazione elettronica integrata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Emergenza autonomia 1h/3h.

Extruded aluminium body painted with epoxy powders after phosphating. Complete with suspension cable 2m length and power supply ceiling rose. Anodized turned aluminium reflector. Satin glass louver. LED light source. Direct light emission. Suspension mounting system. Ceiling installation bracket code LUSH-ST. Built-in electronic driver ON/OFF. On request: dimmable DALI (code DL). Emergency autonomy 1h/3h.

Corps en aluminium extrudé ave traitement époxy. Fourni avec cable de suspension de 2m et rosace de alimentation. Réflecteur en aluminium tourné et anodisé. Optique en verre sablé. Source lumineuse LED. Émission directe. Système de fixation à suspension. Support pour installation au plafond réf. LUSH-ST. Alimentation électronique intégrée ON/OFF. Sur demande: dimmable DALI (réf. DL). Autonomie d'urgence 1h/3h.

Cuerpo de aluminio extruido con polvo epoxi previamente fosfatado. Cable de suspensión de 2 m y roseta incluidos. Difusor de aluminio torneado y anodizado. Óptica de vidrio esmerilado. Fuente de iluminación LED. Emisión difundida. Sistema de fijación en suspensión. Soporte para instalación en techo cód. LUSH-ST. Alimentación electrónica integrada ON/OFF. Bajo pedido: regulable DALI (código DL). Grupo de emergencia de 1h o 3h.



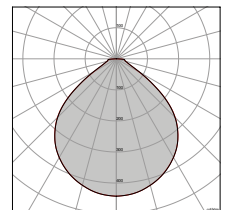
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Schermo Diffuser	Alimentazione Power Supply	Colore Colour
1465	11	≤ 131	250	<b>HRMAC1</b>	<b>W:3000</b> <b>N:4000</b>	vetro satinato satin glass	-: ON/OFF  <b>DL:</b> DALI	<b>Standard:</b> <ul style="list-style-type: none"> <li>● <b>W1:</b> White Irazu</li> <li>● <b>BLL:</b> Black Lava</li> </ul> <b>Su richiesta / On request:</b> <ul style="list-style-type: none"> <li>● <b>SB:</b> Silver Bombalai</li> <li>● <b>BL:</b> Bronze Lario</li> <li>● <b>RR:</b> Rust Rame</li> <li>● <b>BF:</b> Beige Futura</li> <li>● <b>GK:</b> Gold Karkar</li> <li>● <b>BT:</b> Blue Telica</li> </ul>
1975	16	≤ 123	350	<b>HRMAC2</b>				
2470	20	≤ 123	450	<b>HRMAC3</b>				
2560	22	≤ 116	500	<b>HRMAC4</b>				



A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

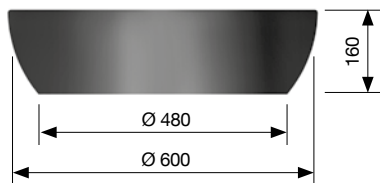


H (m)	Ø (m)
1	2.4
2	4.8
3	7.2
4	9.5
5	12









## BOLERO SHOP

Apparecchio decorativo per installazione a sospensione.  
Decorative suspension lighting fitting.  
Appareil décoratif en suspension.  
Luminaria decorativa de suspensión.

Corpo in alluminio verniciato con polveri epossidiche previa fosfatazione. Completo di n. 3 cavi di sospensione L. 2 m e rosone d'alimentazione. Riflettore in alluminio tornito anodizzato. Ottica in vetro satinato. Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a sospensione. Staffa per installazione a plafone cod. HRLUSH-ST. Alimentazione elettronica integrata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Emergenza autonomia 1h/3h.

Extruded aluminium body painted with epoxy powders after phosphating. Complete with no. 3 suspension cables 2m length and power supply ceiling rose. Anodized turned aluminium reflector. Satin glass louver. LED light source. Direct light emission. Suspension mounting system. Ceiling installation bracket code HRLUSH-ST. Built-in electronic driver ON/OFF. On request: dimmable DALI (code DL). Emergency autonomy 1h/3h.

Corps en aluminium extrudé ave traitement époxy. Fourni avec 3 cable de suspension de 2m et rosace de alimentation. Réflecteur en aluminium tourné et anodisé. Optique en verre sablé. Source lumineuse LED. Émission directe. Système de fixation à suspension. Support pour installation au plafond réf. HRLUSH-ST. Alimentation électronique intégrée ON/OFF. Sur demande: dimmable DALI (réf. DL). Autonomie d'urgence 1h/3h.

Cuerpo de aluminio extruido con polvo epoxi previamente fosfatado. 3 cables de suspensión de 2 m y roseta incluidos. Difusor de aluminio torneado y anodizado. Óptica de vidrio esmerilado. Fuente de iluminación LED. Emisión difundida. Sistema de fijación en suspensión. Soporte para instalación en techo cód. HRLUSH-ST. Alimentación electrónica integrada ON/OFF. Bajo pedido: regulable DALI (código DL). Grupo de emergencia de 1h o 3h.



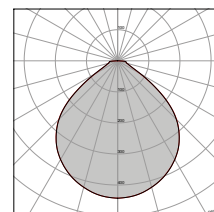
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Schermo Diffuser	Alimentazione Power Supply	Colore Colour
4400	40	≤ 110	250	<b>HRBS1</b>	<b>WW: 2700</b> <b>W:3000</b> <b>X:3500</b> <b>N:4000</b>	vetro satinato satin glass	-: ON/OFF  <b>DL: DALI</b>	<b>Standard:</b> ● <b>W1:</b> White Irazu ● <b>BL:</b> Black Lava <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
5950	58,5	≤ 102	350	<b>HRBS2</b>				
7700	77,5	≤ 99	450	<b>HRBS3</b>				



A richiesta | On request

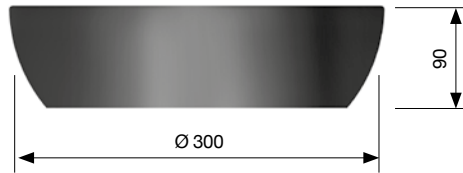
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%



H (m)	Ø (m)
1	2.4
2	4.8
3	7.2
4	9.5
5	12

Accessorio / Accessory  
Staffa per installazione a plafone codice HRLUSH-ST  
Ceiling installation bracket code HRLUSH-ST



# BOLERINO

Apparecchio decorativo per installazione a sospensione.  
 Decorative suspension lighting fitting.  
 Appareil décoratif en suspension.  
 Luminaria decorativa de suspensión.

Corpo in alluminio verniciato con polveri epossidiche previa fosfatazione. Completo di cavo di sospensione L. 2 m e rosone d'alimentazione. Schermo di chiusura in policarbonato opale. Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a sospensione. A richiesta installazione a plafone con staffe codice HRBLN-ST. Alimentazione elettronica integrata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Emergenza autonomia 1h/3h.

Extruded aluminium body painted with epoxy powders after phosphating. Complete with suspension cable 2m length and power supply ceiling rose. Opal polycarbonate closing diffuser. LED light source. Direct light emission. Suspension mounting system. Ceiling installation bracket code HRBLN-ST. Built-in electronic driver ON/OFF. On request: dimmable DALI (code DL). Emergency autonomy 1h/3h.

Corps en aluminium extrudé ave traitement époxy. Fourni avec cable de suspension de 2m et rosace de alimentation. Ecran de fermeture en polycarbonate opal. Source lumineuse LED. Émission directe. Système de fixation à suspension. Support pour installation au plafond réf. HRBLN-ST. Alimentation électronique intégrée ON/OFF. Sur demande: dimmable DALI (réf. DL). Autonomie d'urgence 1h/3h.

Cuerpo de aluminio extruido con polvo epoxi previamente fosfatado. Cable de suspensión de 2 m y roseta incluidos. Difusor de cierre de policarbonato opal. Fuente de iluminación LED. Emisión difundida. Sistema de fijación en suspensión. Soporte para instalación en techo cód. HRBLN-ST. Alimentación electrónica integrada ON/OFF. Bajo pedido: regulable DALI (código DL). Grupo de emergencia de 1h o 3h.

5Y WARRANTY  
5% FAILURE RATE
60.000 h  
LED LIFETIME L90B10
100.000 h  
LED LIFETIME L70B50
 RIPPLE  
FREE

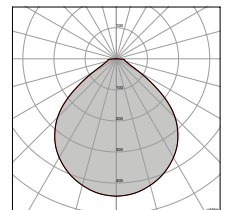
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Schermo Diffuser	Alimentazione Power Supply	Colore Colour
1500	16	≤ 94	250	HRBLN1	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	opale opal	-: ON/OFF  DL: DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BL:</b> Black Lava <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
2140	23	≤ 94	350	HRBLN2				
2780	30	≤ 93	450	HRBLN3				
3630	39	≤ 93	500	HRBLN4				

CE
IP65  
EN 60529
230 V  
2014/250/EU
50/60  
Hz
IK 07  
EN 60068
850°  
EN 60695
RG 0  
EN 62471
01  
WHITE
>90  
CRI
EM  
EN 4899-3:22
DL  
DALI
PD  
PUSH DIM

A richiesta | On request

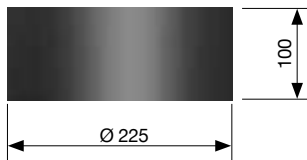
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%



H (m)	Ø (m)
1	2.4
2	4.8
3	7.2
4	9.5
5	12





# PLATÒ

## FASCIO/BEAM/FAISCEAU/HAZ LA

Plafoniera decorativa, attacco plafone o binario  
 Decorative LED fitting for ceiling or track mounting.  
 Appareil décoratif LED pour fixation en saillie ou sur rail.  
 Luminaria LED decorativa para montaje en techo o de carril.

Corpo e riflettore in un unico pezzo in alluminio verniciato con polveri epossidiche previa fosfatazione. Schermo di chiusura in policarbonato opale. Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a plafone. Per installazione a binario: accessorio attacco a binario (cod. TK). Alimentazione elettronica integrata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Emergenza autonomia 1h/3h.

*One piece body and reflector painted with epoxy powders after phosphating. Opal polycarbonate closing diffuser. LED light source. Direct light emission. Ceiling mounting system. Track mounting system accessory (cod. TK). Built-in electronic driver ON/OFF. On request: dimmable DALI (code DL). Emergency autonomy 1h/3h.*

*Corps et réflecteur, une seule pièce, en aluminium avec traitement époxy. Ecran de fermeture en polycarbonate opal. Source lumineuse LED. Emission directe. Système de fixation au plafond (accessoire pour installation sur rail : réf. TK). Alimentation électronique ON/OFF intégrée. Sur demande: dimmable DALI (réf. DL). Autonomie d'urgence 1h/3h.*

*Caracasa con reflector de aluminio recubierto con polvo epoxi previamente fosfatado. Difusor de cierre de policarbonato opal. Fuente de iluminación LED. Emisión directa. Montaje en techo (accessorio para instalación en carril: cód. TK). Alimentación electrónica ON/OFF integrada. A pedido: regulación DALI (cód. DL). Autonomía de emergencia 1h/3h.*



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Schermo Diffuser	Alimentazione Power Supply	Colore Colour
1465	11	≤ 131	250	HRPL1	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	opale opal	-: ON/OFF  <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava  <b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
1975	16	≤ 123	350	HRPL2				
2470	20	≤ 123	450	HRPL3				
2560	22	≤ 116	500	HRPL4				

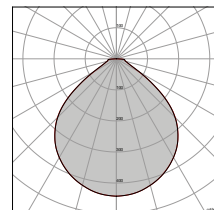


A richiesta | On request

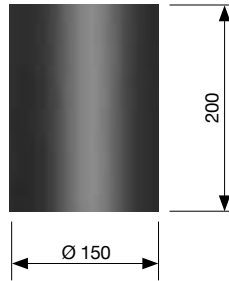
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

Ottica LA 100°



H (m)	Ø (m)
1	2.4
2	4.8
3	7.2
4	9.5
5	12



# MAGGIOLINA

## FASCIO/BEAM/FAISCEAU/HAZ LA

Plafoniera decorativa, attacco plafone o binario  
 Decorative LED fitting for ceiling or track mounting.  
 Appareil décoratif LED pour fixation en saillie ou sur rail.  
 Luminaria LED decorativa para montaje en techo o de carril.

Corpo e riflettore in un unico pezzo in alluminio verniciato con polveri epossidiche previa fosfatazione. Schermo di chiusura in policarbonato opale. Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a plafone. Per installazione a binario: accessorio attacco a binario (cod. TK). Alimentazione elettronica integrata ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

One piece body and reflector painted with epoxy powders after phosphating. Opal polycarbonate closing diffuser. LED light source. Direct light emission. Ceiling mounting system. Track mounting system accessory (cod. TK). Built-in electronic driver ON/OFF. On request: dimmable DALI (code)

Corps et réflecteur, une seule pièce, en aluminium avec traitement époxy. Ecran de fermeture en polycarbonate opal. Source lumineuse LED. Emission directe. Système de fixation au plafond (accessoire pour installation sur rail : réf. TK). Alimentation électronique ON/OFF intégrée. Sur demande: dimmable DALI (réf. DL).

Caracasa con reflector de aluminio recubierto con polvo epoxi previamente fosfatado. Difusor de cierre de policarbonato opal. Fuente de iluminación LED. Emisión directa. Montaje en techo (accessorio para instalación en carril: cód. TK). Alimentación electrónica ON/OFF integrada. A pedido: regulación DALI (cód. DL).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Schermo Diffuser	Alimentazione Power Supply	Colore Colour
1465	11	≤ 131	250	<b>HRMAG1</b>	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	opale opal	-: ON/OFF  DL: DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
1975	16	≤ 123	350	<b>HRMAG2</b>				
2470	20	≤ 123	450	<b>HRMAG3</b>				
2560	22	≤ 116	500	<b>HRMAG4</b>				

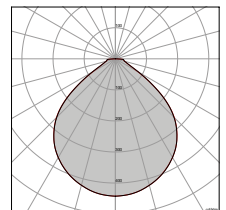


A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

Ottica LA 100°



H (m)	Ø (m)
1	2.4
2	4.8
3	7.2
4	9.5
5	12

SOO L

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SOO STAND

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MINI DECK

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LUMA A

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LUMA P

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LUMA I

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#### **SISTEMI 24 VOLT**

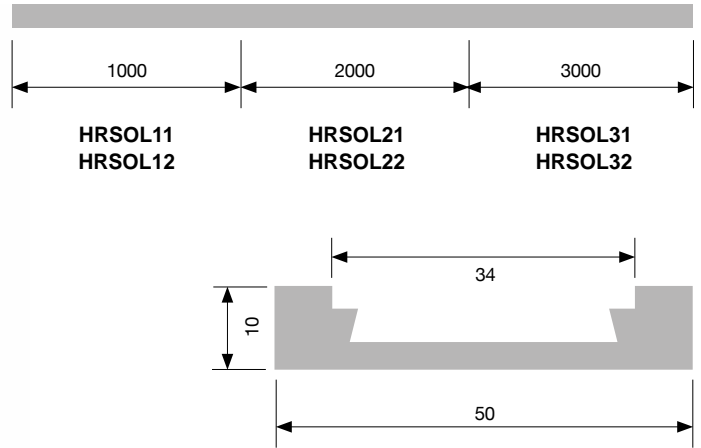
*SYSTEM 24 VOLT*  
*SYSTÈME LED 24 VOLT*  
*SISTEMA LED 24 VOLT*











# SOO L

## SCHERMO/DIFFUSER OP | MP

Sistema LED lineare 24 Volt.  
LED linear system 24 Volt.  
Système LED linéaire 24 Volt.  
Sistema LED lineal de 24V.

Corpo in estruso di alluminio verniciato con polveri epossidiche previa fosfatazione. Ottica microprismata trasparente (codice MP), opale (codice OP). Fornito completo di cavo di alimentazione lunghezza 2 m, uscita cavo dalla testata. Sorgente luminosa LED. Emissione diretta. Fissaggio a plafone o incasso a mezzo viti. Alimentazione 24 volt esterna ON/OFF. Alimentatore non incluso, da ordinare separatamente. A richiesta dimmerabile DALI.

Extruded aluminium body painted with epoxy powder after phosphating. Microprismatic polycarbonate louver (code MP) opal (code OP). Complete with power supply cable 2 mt. length, cable exit from endcap. LED light source. Direct light emission. Ceiling mounting system or recessed with screws. Separate electronic driver 24 Volt ON/OFF. Driver not included, to be ordered separately. On request: dimmable DALI (code DL).

Corps en aluminium extrudé peint avec des poudres époxy après phosphatation. Optique microprismée transparente (réf. MP), opale (réf. OP). Vendu avec câble d'alimentation long. 2 m, sortie de câble à l'extrémité sur le côté de l'appareil. Source de lumière LED. Émission directe. Fixation au plafond ou encastrée avec vis. Alimentation déportée 24 v ON/OFF. Driver non inclus, à commander séparément. Sur demande dimmable DALI (réf. DL).

Cuerpo de aluminio extruido barnizado con polvo epoxi previamente fosfatado. Óptica microprismata transparente (código MP), opal (código OP). Cable de alimentación de 2m incluido, salida del cable lateral. Fuente de iluminación LED. Emisión directa. Fijación de techo o empotrada mediante tornillos. Fuente de alimentación de 24V externa ON/OFF. Balasto no incluido (a pedir por separado). Bajo pedido: regulable DALI (código DL).



Lumen	Watt	Lumen Watt Out	Volt	Code Code	K	Schermo Diffuser	Alimentazione Power Supply	Colore Colour
2350	19	≤ 123	24	HRSOL11	WW: 2700 W:3000 X:3500 N:4000	OP: opale opal MP: microprismatico microprismatic	24 Volt da ordinare separatamente to be ordered separately	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
4700	38	≤ 123	24	HRSOL21				
7050	57	≤ 123	24	HRSOL31				
4700	38	≤ 123	24	HRSOL12				
9400	76	≤ 123	24	HRSOL22				
14100	114	≤ 123	24	HRSOL32				



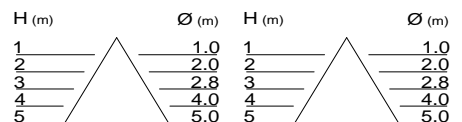
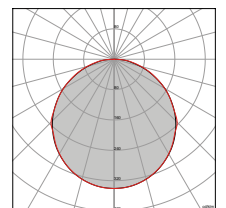
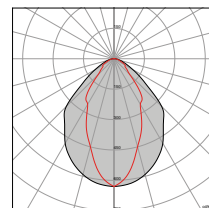
A richiesta | On request

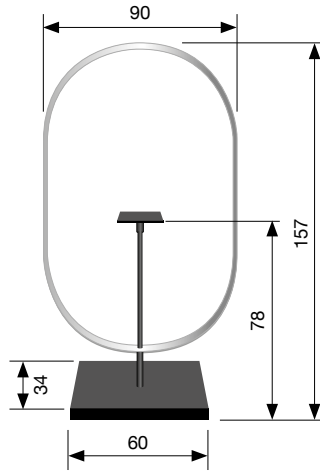
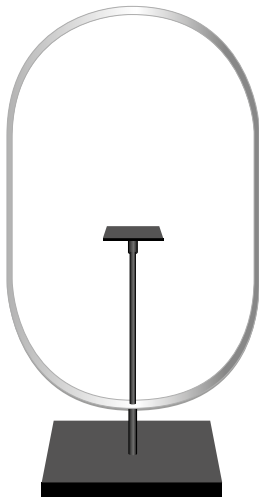
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

Ottica MP 50°

Ottica OP 112°





## SOO STAND

Espositore decorativo con illuminazione integrata.  
Decorative stand with built-in light.  
Présentoir décoratif avec éclairage intégré.  
Expositor decorativo con iluminación integrada.

Corpo in estruso di alluminio, base d'appoggio porta componenti e piano espositivo in lamiera d'acciaio pressopiegata, verniciati con polveri epossidiche previa fosfatazione. Schermo in policarbonato microprismato trasparente (cod. MP) o opale (cod. OP). Completo di cavo di alimentazione lunghezza 2m nero, senza spina e senza interruttore. Sorgente luminosa LED a 24V. Emissione interna diffusa. Alimentazione elettronica integrata ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Extruded aluminium body, component holder support base and display surface of bent steel sheet, painted with epoxy powders after phosphating. Transparent microprismatic polycarbonate diffuser (code MP) or opal (code OP). Complete with power supply cable 2 mt. length, without plug and switch. LED light source 24V. Diffuse internal emission. Built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium extrudé, base de support pour les composants et surface d'exposition en tôle d'acier pliée à la presse, peint avec des poudres époxy après phosphatation. Écran en polycarbonate microprismé transparent (réf. MP) ou opale (réf. OP). Livré avec cordon d'alimentation noir de 2 m de longueur, sans prise ni interrupteur. Source de lumière LED 24V. Émission interne diffuse. Alimentation électronique intégrée ON/OFF. Sur demande : DIMMABLE DALI (réf. DL).

Cuerpo de aluminio extruido, base de apoyo porta componentes y plano expositivos de chapa de acero plegada a presión, barnizados con polvo epoxi previamente fosfatado. Difusor de policarbonato microprismato transparente (código MP) u opal (código OP). Cable de alimentación de 2m negro incluido, sin enchufe y sin interruptor. Fuente de iluminación LED de 24V. Emisión interna difundida. Alimentación electrónica integrada ON/OFF. Bajo pedido: regulable DALI (código DL).



Lumen	Watt Watt Out	Lumen	Codice Code	K	Schermo Diffuser	Alimentazione Power Supply	Colore Colour
9400	76	≤ 123	HR SOS1	WW: 2700 W: 3000 X: 3500 N: 4000	MP: Microprismato Microprismatic  OP: Opale Opal	-: ON/OFF  DL: DALI	<b>Standard:</b> ● WI: White Irazu ● BLL: Black Lava <b>Su richiesta /On request:</b> ● SB: Silver Bombalai ● BL: Bronze Lario ● RR: Rust Rame ● BF: Beige Futura ● GK: Gold Karkar ● BT: Blue Telica



A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

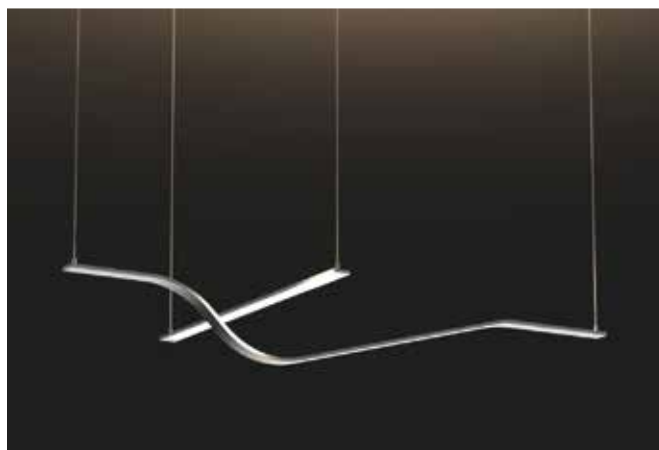


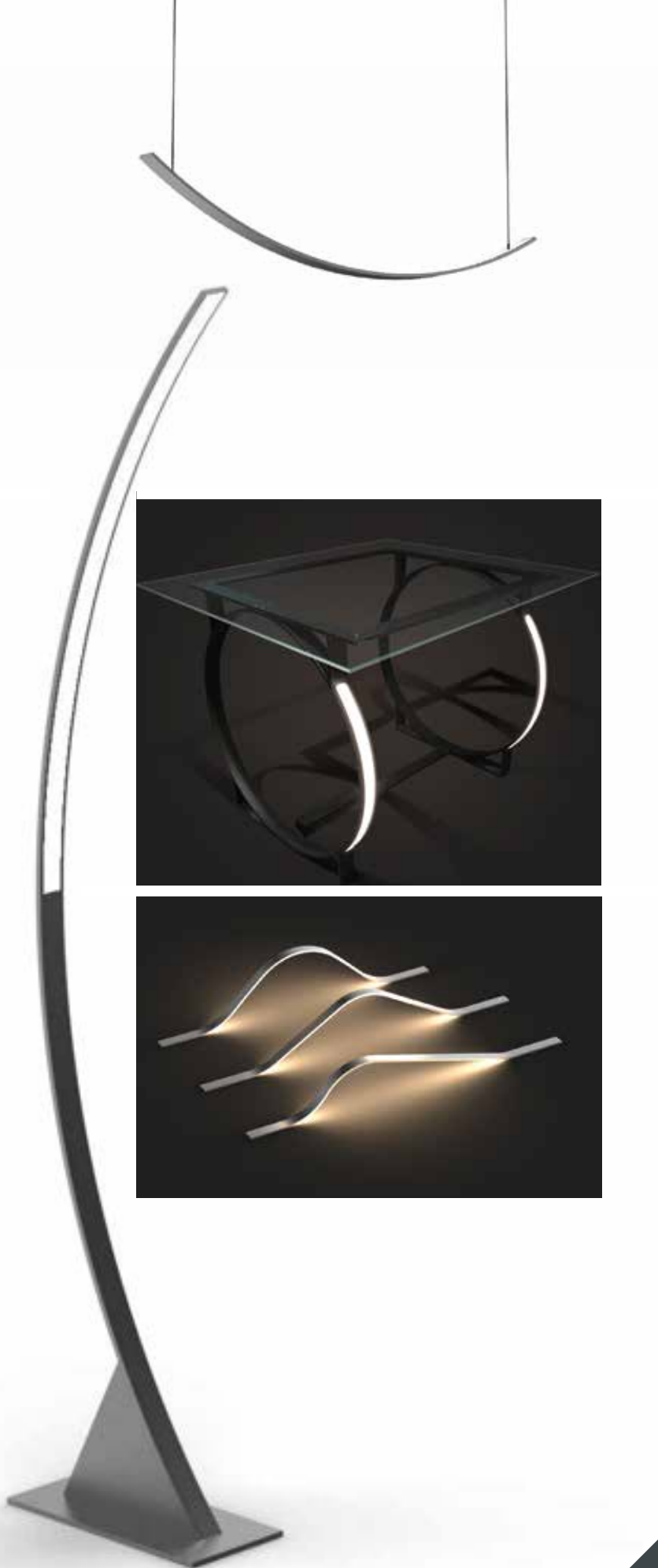
# Il mondo Soo.

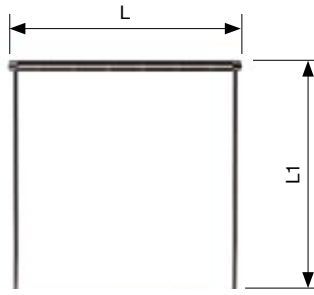
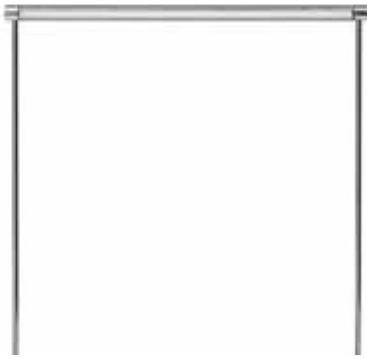
*The Soo world.*

*Le monde Soo.*

*El mundo Soo.*







## MINI DECK

Illuminazione per vetrina espositiva.

Lighting for display case.

Eclairage pour vitrine.

Iluminación para vitrina de exposición.

Corpo e supporto in alluminio estruso. Terminali di chiusura in alluminio tornito. Finiture e misure customizzabili a richiesta. Schermo di chiusura in policarbonato trasparente, a richiesta opale (cod. OP). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a incasso su superficie piana spessore 1 - 33 mm. Alimentazione remota 24 Volt da ordinare separatamente (pag. 169). A richiesta: dimmerabile DALI (cod. DL).

Extruded aluminum body and stand. Turned aluminum endcaps. On request customizable dimensions and finishes. Transparent polycarbonate closing diffuser, on request opal (code OP). LED light source. Direct light emission. Recessed fixing system on flat surface thickness 1 - 33 mm. Remote power supply 24 Volt to be ordered separately (see page 169). On request: dimmable DALI (code DL).

Corps et support en aluminium extrudé. Embouts terminaux en aluminium usiné. Finitions et dimensions personnalisables sur demande. Ecran de fermeture en polycarbonate transparent, opale sur demande (réf. OP). Source de lumière LED. Emission directe. Système de fixation encastré sur surface plane H. 1 - 33 mm. Alimentation déportée 24 Volt à commander séparément voir (pag. 169). Sur demande : Dimmable DALI (réf. DL).

Cuerpo y soporte de aluminio extruido. Terminales de aluminio torneado. Acabados y medidas personalizables bajo pedido. Difusor de policarbonato transparente, bajo pedido Opal (cód. OP). Fuente de iluminación LED. Emisión directa. Empotrable en superficie plana espesor 1 - 33 mm. Alimentación remota 24V (a pedir por separado p. 169). Bajo pedido: regulable DALI (cód. DL).



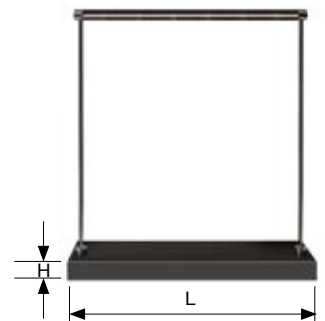
Lumen/m	Watt/m	Lumen Watt Out	Codice Code	L	L1	K	Schermo Diffuser	Alimentazione Power Supply	Colore Colour
2350	19	≤ 123	HRMD		A richiesta On request	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	-: Trasparente Transparent A richiesta On request <b>OP:</b> Opale Opal	<b>24 Volt</b> da ordinare separatamente to be ordered separately	<b>Standard:</b> <ul style="list-style-type: none"> <li>● <b>WI:</b> White Irazu</li> <li>● <b>BLL:</b> Black Lava</li> </ul> <b>Su richiesta / On request:</b> <ul style="list-style-type: none"> <li>● <b>SB:</b> Silver Bombalai</li> <li>● <b>BL:</b> Bronze Lario</li> <li>● <b>RR:</b> Rust Rame</li> <li>● <b>BF:</b> Beige Futura</li> <li>● <b>GK:</b> Gold Karkar</li> <li>● <b>BT:</b> Blue Telica</li> </ul>



A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

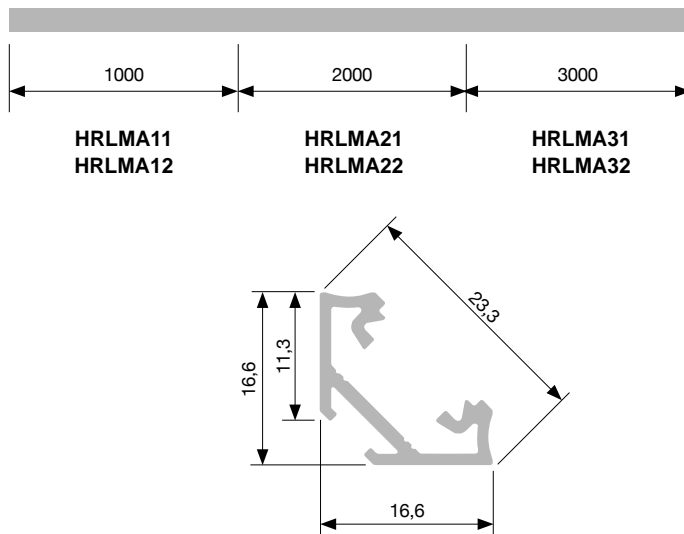


Accessorio base cablata  
 Accessory wired base









# LUMA A

## SCHERMO/DIFFUSER OP

Sistema LED lineare a plafone 24 Volt.  
Ceiling LED linear system 24 Volt.  
Système LED linéaire encastré 24 Volt.  
Sistema LED angular de techo de 24V.

Corpo in estruso di alluminio anodizzato. Ottica opale (cod. OP). Fornito completo di cavo di alimentazione lunghezza 2 m, uscita cavo dalla testata. Accessori per installazione inclusi. Sorgente luminosa LED. Emissione diretta. Fissaggio a plafone, installazione angolare. Alimentazione 24 volt esterna ON/OFF. Alimentatore non incluso, da ordinare separatamente. A richiesta dimmerabile DALI (cod. DL).

Extruded anodized aluminum body. Opal polycarbonate optic (code OP). Complete with power supply cable 2 mt. length, cable exit from endcap. Installation accessories included. LED light source. Direct emission. Ceiling mounting system, corner installation. Separate electronic power supply 24 Volt ON/OFF. Driver not included, to be ordered separately. On request: dimmable DALI (code DL).

Corps en aluminium anodisé extrudé. Optique opale (réf. OP). Vendu avec câble d'alimentation long. 2 m, sortie de câble à l'extrémité sur le côté de l'appareil. Accessoires d'installation inclus. Source de lumière LED. Émission directe. Fixation en surface, installation d'angle. Alimentation déportée 24v ON/OFF. Driver non inclus, à commander séparément. Sur demande dimmable DALI (réf. DL).

Cuerpo de aluminio estruido anodizado. Óptica opal (código OP). cable de alimentación de 2m incluido, salida del cable lateral. Accesorios de instalación incluidos. Fuente de iluminación LED. Emisión directa. Fijación a techo. Instalación angular. Fuente de alimentación de 24V externa ON/OFF. Balasto no incluido (a pedir por separado). Bajo pedido: regulable DALI (código DL).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2350	20	≤ 118	24	<b>HRLMA11</b>	<b>WW: 2700</b> <b>W:3000</b> <b>X:3500</b> <b>N:4000</b>	<b>OP:</b> opale opal	<b>24 Volt</b> da ordinare separatamente to be ordered separately	● Anodizzato Anodized
4700	40	≤ 118	24	<b>HRLMA21</b>				
7050	60	≤ 118	24	<b>HRLMA31</b>				
1600	14	≤ 115	24	<b>HRLMA12</b>				
3200	28	≤ 115	24	<b>HRLMA22</b>				
4800	42	≤ 115	24	<b>HRLMA32</b>				

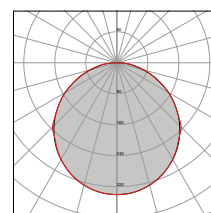


A richiesta | On request

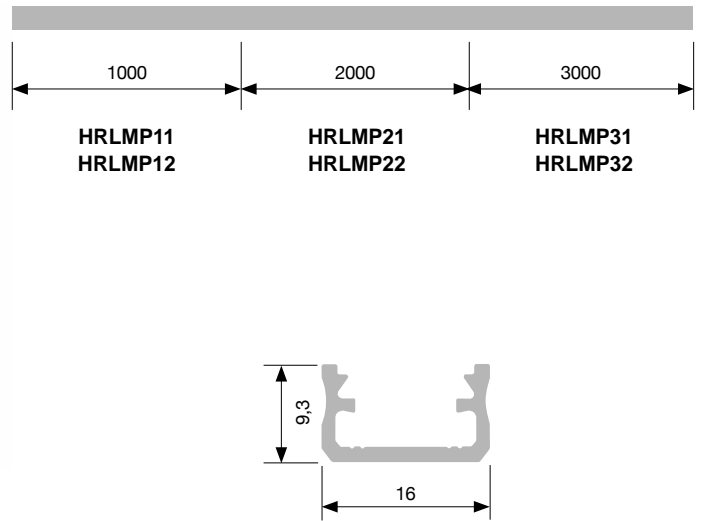
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

Ottica OP 112°



H (m)	Ø (m)
1	1.0
2	2.0
3	2.8
4	4.0
5	5.0



# LUMA P

## SCHERMO/DIFFUSER OP

Sistema LED lineare a plafone o incasso trimless 24 Volt.  
 Ceiling or trimless recessed LED linear system 24 Volt.  
 Système LED linéaire encastré sans cadre ou plafonnier 24v.  
 Sistema LED lineal de techo o empotrado trimless de 24V.

Corpo in estruso di alluminio anodizzato. Ottica opale (cod. OP). Fornito completo di cavo di alimentazione lunghezza 2 m, uscita cavo dalla testata. Accessori per installazione inclusi. Sorgente luminosa LED. Emissione diretta. Fissaggio a plafone, installazione angolare. Alimentazione 24 volt esterna ON/OFF. Alimentatore non incluso, da ordinare separatamente. A richiesta dimmerabile DALI (cod. DL).

Extruded anodized aluminum body. Opal polycarbonate optic (code OP). Complete with power supply cable 2 mt. length, cable exit from endcap. Installation accessories included. LED light source. Direct emission. Ceiling mounting system, corner installation. Separate electronic power supply 24 Volt ON/OFF. Driver not included, to be ordered separately. On request: dimmable DALI (code DL).

Corps en aluminium anodisé extrudé. Optique opale (réf. OP). Vendu avec câble d'alimentation long. 2 m, sortie de câble à l'extrémité sur le côté de l'appareil. Accessoires d'installation inclus. Source de lumière LED. Émission directe. Fixation en surface, installation d'angle. Alimentation déportée 24v ON/OFF. Driver non inclus, à commander séparément. Sur demande dimmable DALI (réf. DL).

Cuerpo de aluminio estruido anodizado. Óptica opal (código OP). cable de alimentación de 2m incluido, salida del cable lateral. Accesorios de instalación incluidos. Fuente de iluminación LED. Emisión directa. Fijación a techo. Instalación angular. Fuente de alimentación de 24V externa ON/OFF. Balasto no incluido (a pedir por separado). Bajo pedido: regulable DALI (código DL).

5Y WARRANTY  
5% FAILURE RATE
60.000 h  
LED LIFETIME L90B10
100.000 h  
LED LIFETIME L70B50
 RIPPLE  
FREE

Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2350	20	≤ 118	24	HRLMP11	WW: 2700 W: 3000 X: 3500 N: 4000	OP: opale opal	24 Volt da ordinare separatamente to be ordered separately	● Anodizzato Anodized
4700	40	≤ 118	24	HRLMP21				
7050	60	≤ 118	24	HRLMP31				
1600	14	≤ 115	24	HRLMP12				
3200	28	≤ 115	24	HRLMP22				
4800	42	≤ 115	24	HRLMP32				

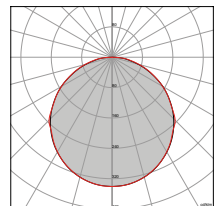
CE
III
>90  
CRI
3SDCM
IP44  
EN 60529
IK 07  
EN 60068
24 V  
2014/35/UE
950°  
EN 60895
RG 0  
EN 62471
DL  
DALI
>80  
CRI
>95  
CRI

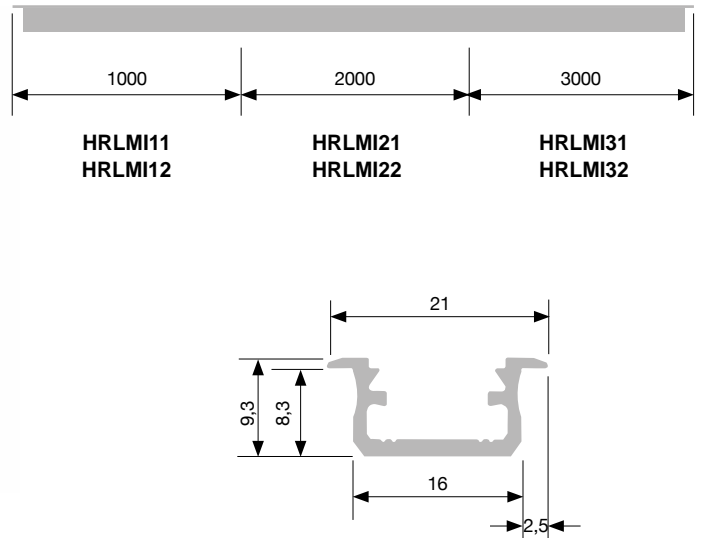
A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

Ottica OP 112°





# LUMA I

## SCHERMO/DIFFUSER OP

Sistema LED lineare a incasso 24 Volt.  
 Recessed LED linear system 24 Volt.  
 Système LED encastré linéaire 24v.  
 Sistema LED lineal empotrado de 24V.

Corpo in estruso di alluminio anodizzato. Ottica opale (cod. OP). Fornito completo di cavo di alimentazione lunghezza 2 m, uscita cavo dalla testata. Accessori per installazione inclusi. Sorgente luminosa LED. Emissione diretta. Fissaggio a plafone, installazione angolare. Alimentazione 24 volt esterna ON/OFF. Alimentatore non incluso, da ordinare separatamente. A richiesta dimmerabile DALI (cod. DL).

Extruded anodized aluminum body. Opal polycarbonate optic (code OP). Complete with power supply cable 2 mt. length, cable exit from endcap. Installation accessories included. LED light source. Direct emission. Ceiling mounting system, corner installation. Separate electronic power supply 24 Volt ON/OFF. Driver not included, to be ordered separately. On request: dimmable DALI (code DL).

Corps en aluminium anodisé extrudé. Optique opale (réf. OP). Vendu avec câble d'alimentation long. 2 m, sortie de câble à l'extrémité sur le côté de l'appareil. Accessoires d'installation inclus. Source de lumière LED. Émission directe. Fixation en surface, installation d'angle. Alimentation déportée 24v ON/OFF. Driver non inclus, à commander séparément. Sur demande dimmable DALI (réf. DL).

Cuerpo de aluminio estruido anodizado. Óptica opal (código OP). cable de alimentación de 2m incluido, salida del cable lateral. Accesorios de instalación incluidos. Fuente de iluminación LED. Emisión directa. Fijación a techo. Instalación angular. Fuente de alimentación de 24V externa ON/OFF. Balasto no incluido (a pedir por separado). Bajo pedido: regulable DALI (código DL).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2350	20	≤ 118	24	<b>HRLMI11</b>	<b>WW: 2700</b> <b>W:3000</b> <b>X:3500</b> <b>N:4000</b>	<b>OP:</b> opale <i>opal</i>	<b>24 Volt</b> da ordinare separatamente <i>to be ordered separately</i>	● Anodizzato <i>Anodized</i>
4700	40	≤ 118	24	<b>HRLMI21</b>				
7050	60	≤ 118	24	<b>HRLMI31</b>				
1600	14	≤ 115	24	<b>HRLMI12</b>				
3200	28	≤ 115	24	<b>HRLMI22</b>				
4800	42	≤ 115	24	<b>HRLMI32</b>				

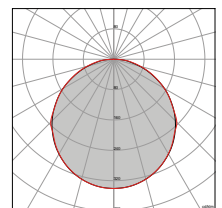


A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

Ottica OP 112°



BINARIO DALI

*TRACK DALI*

*RAIL DALI*

*CARRIL DALI*

BINARIO INCASSO DALI

*RECESSED TRACK DALI*

*RAIL ENCASTRÉ DALI*

*EMPOTRABLES CARRIL DALI*

ALIMENTATORI

*DRIVERS*

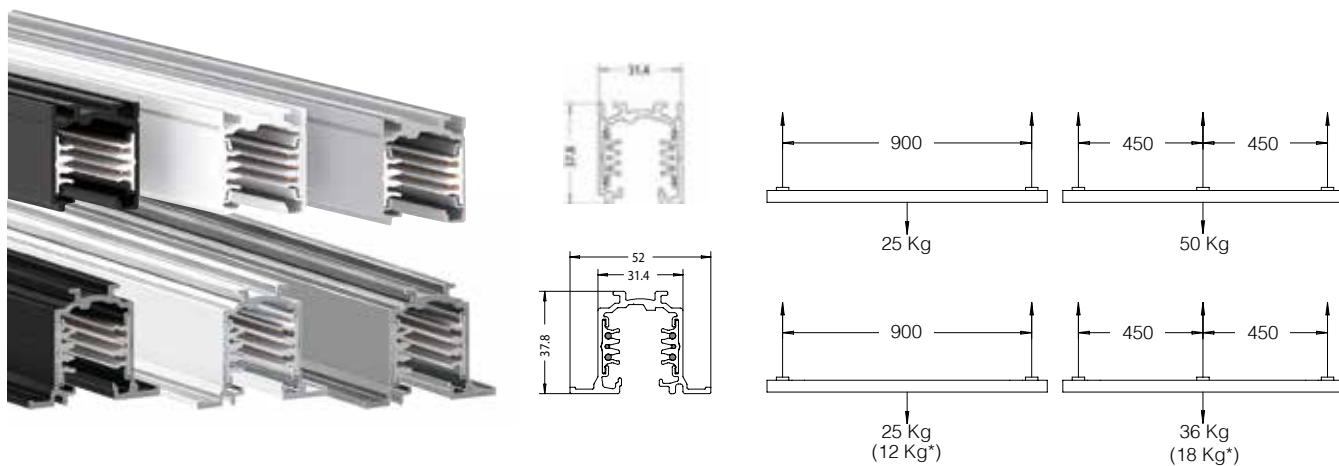
*ALIMENTATION*

*ALIMENTACIÓN*

**ACCESSORI**

*ACCESSORIES*  
*ACCESSOIRES*  
*ACCESORIOS*





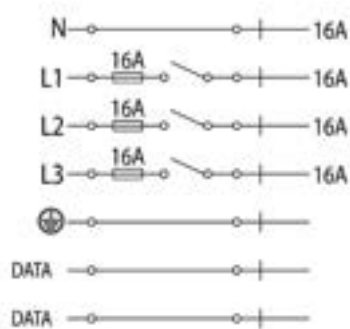
## BINARIO DALI STANDARD • STANDARD TRACK DALI BINARIO DALI INCASSO • RECESSED TRACK DALI

Binario elettrificato realizzato in profilo di alluminio a sezione quadrata. Per l'installazione del binario incasso vedi accessori alla pagina 168.  
*Electrified track manufactured in square profile extruded aluminium. For the installation of the recessed track see accessories on page 168.*  
*Rail électrifié réalisé en profil d'aluminium à section carrée. Pour l'installation du rail encastré voir accessoires page 168.*  
*Carril electrificado realizado de perfil de aluminio de sección cuadrada. Para la instalación del carril empotrado, ver accesorios página 168.*

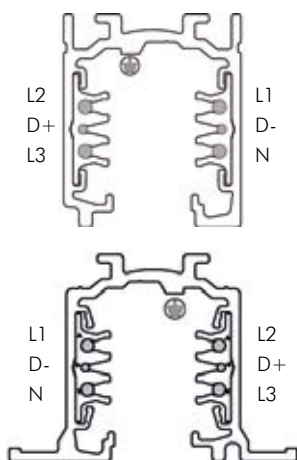
Lunghezza Lenght	Codice Code	Colore Colour
BINARIO STANDARD DALI • STANDARD TRACK DALI		
1000	HR7511/10	<ul style="list-style-type: none"> <li>● 31: Bianco   white RAL9016</li> <li>● 30: Nero   black RAL 9005</li> <li>● 42: Anodizzato   anodized</li> </ul>
2000	HR7511/20	
3000	HR7511/30	
BINARIO DALI INCASSO • RECESSED TRACK DALI		
1000	HR-9000-1	
2000	HR-9000-2	
3000	HR-9000-3	



### POSIZIONAMENTO DELL'ALIMENTAZIONE DEL CONDUTTORI DI TERRA. POSITION OF THE SUPPLY OF EARTH CONDUCTORS.















SCHEMA ELETTRICO TRIFASE A TENSIONE DI RETE 230/250V.  
THREE-PHASE ELECTRIC DIAGRAM FOR MAINS VOLTAGE 230/250V.



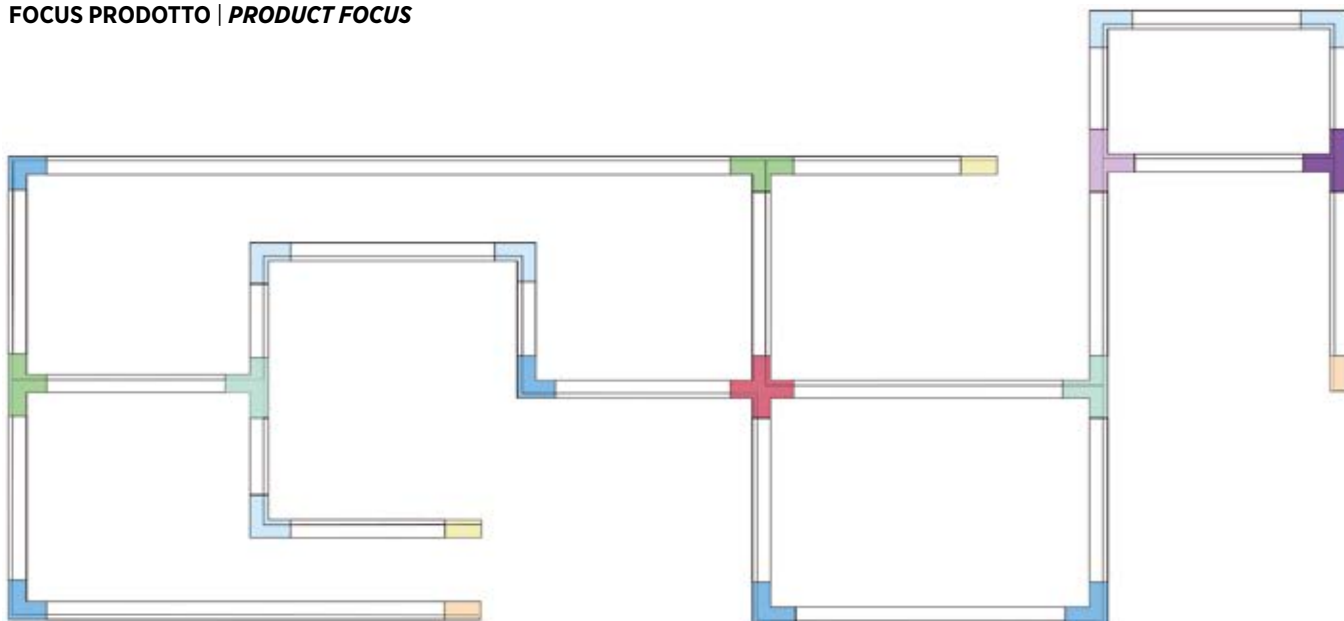
## ACCESSORI PER BINARIO STANDARD DALI.

ACCESSORIES FOR STANDARD TRACK DALI.

	accessori accessories	codice code
	Adattatore meccanico 6A - carico meccanico 5 Kg. <i>Mechanical electrical adapter 6A - mechanical load 5 Kg.</i>	<b>7601-00</b>
	Adattatore meccanico. <i>Mechanical electrical adapter.</i>	<b>7625-00</b>
	Alimentazione destra. <i>Right power supply.</i>	<b>7652-10</b>
	Alimentazione sinistra. <i>Left power supply.</i>	<b>7652-11</b>
	Alimentazione centrale e giunto lineare. <i>Central connector and straight joint.</i>	<b>7653-10</b>
	Giunto L interno. <i>Interior L joint.</i>	<b>7655-10</b>
	Giunto L esterno. <i>Exterior L joint.</i>	<b>7655-11</b>
	Giunto T sinistro esterno. <i>Left outside T joint.</i>	<b>7656-10</b>
	Giunto T destro esterno. <i>Right outside T joint.</i>	<b>7656-12</b>
	Giunto T destro interno. <i>Right inside T joint.</i>	<b>7656-13</b>
	Giunto T sinistro interno. <i>Left inside T joint.</i>	<b>7656-11</b>
	Giunto X. <i>X joint.</i>	<b>7657-10</b>



























	accessori accessories	codice code
	Giunto flessibile. <i>Flexible joint.</i>	<b>7658-10</b>
	Giunto lineare con contatti. <i>Electrical straight joint.</i>	<b>7604-10</b>
	Giunto lineare senza contatti. <i>Mechanical joint.</i>	<b>7654-10</b>
	Chiusura. <i>End cap.</i>	<b>7659-00</b>
	Copertura binario 1000 mm. <i>Track cover 1000 mm.</i>	<b>7624-00</b>
	Kit attacco soffitto. <i>Ceiling kit.</i>	<b>7607-00</b>
	Sospensione kit cavo acciaio 2000 mm (piattina 60). <i>Suspension kit with steel wire 2000 mm (plate 60).</i>	<b>7606-00</b>
	Sospensione kit cavo acciaio 2000 mm (piattina 120). <i>Suspension kit with steel wire 2000 mm (plate 120).</i>	<b>7606-05</b>
	Piattina 120 mm. <i>Plate 120 mm.</i>	<b>7606-04</b>
	Piattina 60 mm. <i>Plate 60 mm.</i>	<b>7606-02</b>
	Adattatore con trasformatore elettr. 50W con jack femmina. <i>Adapter with transformer 50W with female jack.</i>	<b>7601-11</b>

## FOCUS PRODOTTO | PRODUCT FOCUS

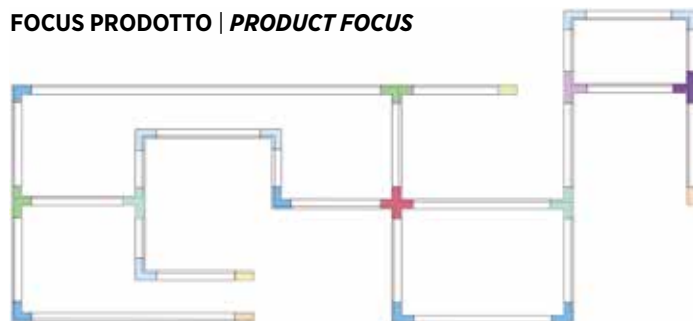




**ACCESSORI PER BINARIO INCASSO DALI.**  
*ACCESSORIES FOR RECESSED TRACK DALI.*

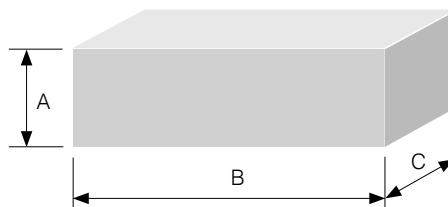
accessori accessories		codice code		accessori accessories		codice code	
	Alimentazione destra. <i>Right power supply.</i>	7652-10	+		Copertura da controsoffitto per testata. <i>Recessed cover for end-feed.</i>	S-9001-R/6	
	Alimentazione sinistra. <i>Left power supply.</i>	7652-11					
	Alimentazione centrale e giunto lineare. <i>Central connector and straight joint.</i>	7653-10	+		Copertura da controsoffitto per giunto diretto. <i>Recessed cover for middle feed.</i>	S-9010-R/6	
	Giunto L interno. <i>Interior L joint.</i>	7655-10	+		Copertura da controsoffitto per giunto a L. <i>Recessed cover for L-feed.</i>	S-9011-R/6	
		Giunto L esterno. <i>Exterior L joint.</i>					7655-11
	Giunto T sinistro esterno. <i>Left outside T joint.</i>	7656-10	+		Copertura da controsoffitto per giunto a T. <i>Recessed cover for T-feed.</i>	S-9013-R/6	
		Giunto T destro esterno. <i>Right outside T joint.</i>					7656-12
		Giunto T destro interno. <i>Right inside T joint.</i>					7656-13
		Giunto T sinistro interno. <i>Left inside T joint.</i>					7656-11
	Giunto X. <i>X joint.</i>	7657-10	+		Copertura da controsoffitto per giunto a X. <i>Recessed cover for X-feed.</i>	S-9017-R/6	
	Kit di sospensione per installazione con cartongesso da posare. <i>Suspension kit for installation with false ceiling to be laid</i>	7606-00			Gancio. <i>Hook.</i>	S-9000/H-B	
		7606-05			Guarnizione per testata di alimentazione. <i>Gasket for end-feed.</i>	S-9000/115	
	Kit staffe (2 pezzi) per installazione con cartongesso già posato. <i>Kit 2 brackets for installation with false ceiling area by installed</i>	KT-9000-TR			Tappo di protezione supplementare per asole binario. <i>Additional closure cap for track slot.</i>	S-9000/TP	
	Adattatore meccanico 6A - carico meccanico 5 Kg. <i>Mechanical electrical adapter 6A - mechanical load 5 Kg.</i>	7601-00			Giunto lineare con contatti. <i>Electrical straight joint.</i>	7604-10	
					Giunto lineare senza contatti. <i>Mechanical joint.</i>	7654-10	
	Adattatore meccanico. <i>Mechanical electrical adapter.</i>	7625-00			Guaina di protezione supplementare. <i>Additional cover strip for track.</i>	S-9000-GP	
					Chiusura. <i>End cap.</i>	9004-R	

**FOCUS PRODOTTO | PRODUCT FOCUS**



## ALIMENTATORI • DRIVER

### 230/24 VOLT



Volt	Watt	Codice Code	Dimensioni Dimension
<b>ALIMENTATORI CLASSE 1 • DRIVERS CLASS 1</b>			
230/24	25	<b>HRAL25</b>	A 92 x B 82 x C 30
230/24	35	<b>HRAL35</b>	A 92 x B 82 x C 30
230/24	50	<b>HRAL50</b>	A 92 x B 82 x C 30
230/24	75	<b>HRAL75</b>	A 99 x B 97 x C 30
230/24	100	<b>HRAL100</b>	A 129 x B 99 x C 30
230/24	150	<b>HRAL150</b>	A 159 x B 97 x C 30
<b>ALIMENTATORI CLASSE 2 • DRIVERS CLASS 2</b>			
230/24	30	<b>HR2AL30</b>	A 145 x B 40 x C 26,5
230/24	60	<b>HR2AL60</b>	A 200 x B 40 x C 31
230/24	120	<b>HR2AL120</b>	A 260 x B 40 x C 31
230/24	180	<b>HR2AL180</b>	A 300 x B 40 x C 31
<b>ALIMENTATORI CLASSE 2 DALI • DRIVERS CLASS 2 DALI</b>			
230/24	50	<b>HRDL50</b>	A 346 x B 32 x C 22
230/24	80	<b>HRDL80</b>	A 346 x B 32 x C 22
230/24	160	<b>HRDL160</b>	A 0300 x B 50 x C 35
<b>ALIMENTATORI CLASSE 2 IP • DRIVERS CLASS 2 IP</b>			
230/24	20	<b>HR2ALIP20</b>	A 178 x B 43 x C 25
230/24	40	<b>HR2ALIP40</b>	A 208 x B 43 x C 26
230/24	60	<b>HR2ALIP60</b>	A 208 x B 43 x C 26
230/24	100	<b>HR2ALIP100</b>	A 240 x B 50 x C 34
230/24	130	<b>HR2ALIP130</b>	A 220 x B 63 x C 37
230/24	250	<b>HR2ALIP250</b>	A 265 x B 68 x C 40

**GRUPPO RAINA**  
L'unione fa la luce.

**IDEALLUX®**

*Lookup*

**COLOMBO**

**ITALIANARETAIL**

**SOSPENSIONE / PLAFONE / INCASSO TRIMLESS / FILE CONTINUE**  
*SUSPENSION / CEILING / RECESSED TRIMLESS / CONTINUOUS LINE*



Algebra OP



Algebra Small

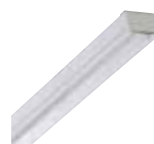


Algebra Micro OP

**SISTEMI CONTINUI**  
*CONTINUOUS LINE SYSTEM*

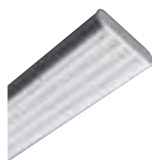


Bingo LED



Binlens System

**PLAFONIERE STAGNE AD ALTA PROTEZIONE MECCANICA**  
*HIGH PROTECTION MECHANICAL WATERPROOF FIXTURE*



Innova XL 1500  
Satinato/Satin



Innova XL  
INTENSIVE



Innova XL  
DARK



Innova PARK



ZITA  
Opale



ZITA 5P  
Opale

**REGLETTE LED "PROLUNGABILI"**  
*LED LIGHT BATTEN "EXTENDABLE"*



Dedica HF



Dedica ASL HF



Profili HF

**IDEALLUX®**

**SOSPENSIONE / PLAFONE / PARETE**  
*SUSPENSION / CEILING / WALL*



Flooting Led



Flat Line Led Dark  
Dir./ind.



Relax Led Spa



Relax Led



BB Teck



BB Led



Flat Smash Led



Gardena Led

**INCASSO**  
*RECESSED*



Alg Up OP



Alg Up Small



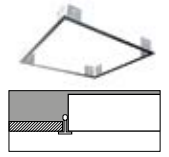
Alg Up Micro



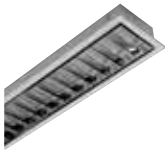
Controplus UGR



Controplus R



Telai/Frames



Controlled EB  
Dark



Controlled EB  
OPAL



Controlled SPA R



Compatta UGR

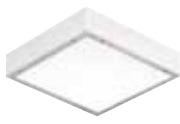


Itali

**INDUSTRIALI & COMMERCIALI**  
*INDUSTRIAL & COMMERCIAL*



AMBI U



Futura



DN Led



Essential



Luly



Bolero



Plike Q



Sottile R



Sottile Q

**GRUPPO RAINA**  
L'unione fa la luce.

**IDEALLUX®**

*Lookup*

**COLOMBO**

**ITALIANARETAIL**

**SOSPENSIONE**

*SUSPENSION*



Aquadro i-L



Eliot i-L



Nori i-L



Maciste



Round



Round IP55



Adalpina



Circo



Olimpia

**A MURO**

*WALL*



Alba



Tink



Faces M



Ester



Dudu



Dosi



Norton



Pia



Trem

**DA TERRA**

*FLOOR*



Amadeus



Silence



Utile

*Lookup*



Jeè i-L



Squak



Arrondo



Ufo



Tubi CM-S



Libra



Opalia i-L



Bolerino



Calea



Zoe M - Zoe



Talè M - Talè



Gina



Mali S-AM



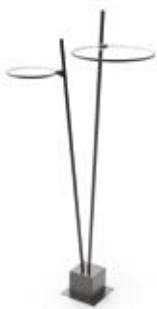
Leila



Bombeï M



Pla



Zero



Birba



Furba



Markus



Markus D



Markus P



Dominore



Calipso



Crocket



Madai



Iron

# CHIAVE DI LETTURA CATALOGO

## METHOD OF READING THE CATALOGUE

**1** Immagine prodotto. Product image.

**2** Dimensioni. Dimensions.

**3** Disegno fasci disponibili. Draw of the available beams.

**4** I simboli riportati indicano configurazioni disponibili su richiesta. The symbols identify the available versions on request.

**5** Simbologia caratteristiche tecnico-costruttive vedi dettagli a pagine 175-176. For the symbols of the technical details see on pages 175-176.

**6** Fotometrie. Photometries.

**7** Informazioni generali. General information.

**8** LUMEN OUT: indica il flusso emesso dall'apparecchio in condizioni di lavoro misurate secondo le norme UNI EN 13032-1:2012 e UNI EN 13032-4:2015 operante in ambiente con temperatura pari a 25°C.

**9** WATT: è la potenza totale assorbita dalla rete elettrica dall'apparecchio di illuminazione. Il dato indicato è comprensivo dei consumi dell'alimentatore elettronico con apparecchio stabilizzato a regime termico operante in ambiente con temperatura pari a 25°C.

**10** LUMEN / WATT OUT: indica l'efficienza reale dell'apparecchio di illuminazione indicando il flusso in uscita per ogni Watt assorbito dalla rete elettrica. Tolleranza sui valori indicati +/- 10%.

**11** mA: Indica il valore di corrente utilizzata per alimentare il modulo LED.

**12** CODICE: è il codice del prodotto da utilizzare per comporre il codice d'ordine (vedi sezione "codice d'ordine").

**13** FASCIO: Indica l'apertura angolare del fascio luminoso.

**14** K: indica la temperatura di colore dei LED espressa in gradi Kelvin; utilizzare le lettere indicate per completare il codice prodotto; "N" per apparecchio equipaggiato con LED 4.000K (standard) oppure con "W" per apparecchio equipaggiato con LED 3.000K, "C" per apparecchio equipaggiato con LED 6.000K.

**15** ALIMENTAZIONE: identifica il tipo di cablaggio dell'apparecchio. La versione standard prevede alimentazione elettronica ON/OFF; cablaggi speciali dimmerabili sono identificati con: DL alimentatore DALI o PD alimentatore push-dim. La sigla relativa al tipo di alimentazione deve essere utilizzata per comporre il codice apparecchio, i codici che non contengono indicazioni relative al tipo di alimentazione saranno gestiti come standard, quindi ON/OFF.

**16** COLORE: è un codice alfabetico che identifica il colore del corpo dell'apparecchio di illuminazione, il colore è riportato in tabella; esempio: SB = Silver Bombalai, BL = Bronze Lario, ecc.

**8** Lumen  
**9** Watt  
**10** Lumen / Watt  
**11** mA  
**12** Codice Code  
**13** Fascio Beam  
**14** K  
**15** Alimentazione Power Supply  
**16** Colore Colour

Lumen	Watt	Lumen / Watt	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
890	7	≤ 127	200	HRMCGR1	SP: fascio spot spot beam	WW: 2700 W: 3000 X: 3500 N: 4000	-: ON/OFF elettronica eletttronica	SB: Silver Bombalai BL: Bronze Lario BR: Brat Barba BF: Beige Futuna W: White Irazu GR: Gold Karkar BT: Blue Telica BL: Black Lava
1100	9	≤ 122	250	HRMCGR2	ST: fascio stretto narrow beam			
1570	13	≤ 121	350	HRMCGR3	MD: fascio medio medium beam			
2150	18	≤ 120	500	HRMCGR4	LA: fascio largo wide beam			
2950	26	≤ 114	700	HRMCGR5				

**5** CE, RoHS, Energy Star, etc.

**6** Temperature ambiente min. max. 10°-40° C. Lumen: tested in a chamber with 3000K CR85. Variation lumen with CR85 + 8% with CR85 - 8%. Rise: color shift 10%.

**7** Min and Max room temperature: 10°-40° C. Lumen: 1000 lux output with 3000K CR85. Rise: variation with CR85 + 8% with CR85 - 8%. Rise: color shift 10%.

**6** Optica SP 15°, Optica ST 25°, Optica MD 40°, Optica LA 60°

**8** H (mm) Ø (mm)

1	0.3	1	0.5	1	0.7	1	1.1
2	0.6	2	1.0	2	1.4	2	2.2
3	0.9	3	1.5	3	2.1	3	3.3
4	1.2	4	2.0	4	2.8	4	4.4

- Immagine prodotto. Product image.
- Dimensioni. Dimensions.
- Disegno fasci disponibili. Draw of the available beams.
- I simboli riportati indicano configurazioni disponibili su richiesta. The symbols identify the available versions on request.
- Simbologia caratteristiche tecnico-costruttive vedi dettagli a pagine 175-176. For the symbols of the technical details see on pages 175-176.
- Fotometrie. Photometries.
- Informazioni generali. General information.

### CODICE D'ORDINE | ORDER CODE

**12** CODICE BASE: è il codice del prodotto da utilizzare per comporre il codice d'ordine. (Vedi sezione "codice d'ordine")

**CODICE BASE:** it is the article code to be used to compose the order code. (See section "order code")

**HRMCGR1SPNSB**

CODICE CODE | FASCIO BEAM | K | COLORE COLOUR

**HRMCGR1MDWWDLBL**

CODICE CODE | FASCIO BEAM | K | COLORE COLOUR | ALIMENTAZIONE POWER SUPPLY

MICRO GIRO 7 W 4.000K FASCIO/BEAM SP ON/OFF SB

MICRO GIRO 7 W 2.700K FASCIO/BEAM MEDIO DALI BL

**LUMEN OUT:** this value identifies the out flux of the fitting at measured working conditions according to norms UNI EN 13032-1:2012 and UNI EN 13032-4:2015 operating in environments at 25° C temperature

**WATT:** it is the total power absorbed by power grid from the lighting fitting. The value includes the power consumption of the power supply with a thermally stabilized device operating in an environment at 25° C.

**LUMEN / WATT OUT:** this values identifies the real efficiency of the lighting fitting as it indicates the out flux for each Watt absorbed by power grid. Tolerance on indicated values +/- 10%.

**mA:** It is the value of the power used to apply the LED module.

**CODICE:** it is the article code to be used to compose the order code (see section "order code").

**BEAM:** Indicates the angular opening of the light beam.
























**K:** it identifies the colour temperature of the LEDS expressed in Kelvin degrees; use the indicated letter to complete the article code: "N" for the article equipped with LED 4.000K (standard version) or with "W" for the article equipped with LED 3.000K, "C" for the article equipped with LED 6.000K.

**POWER SUPPLY:** it identifies the colour temperature of the LEDS expressed in Kelvin degrees; use the indicated letter to complete the article code: "N" for the article equipped with LED 4.000K (standard version) or with "W" for the article equipped with LED 3.000K, "C" for the article equipped with LED 6.000K.

**COLOR:** it is a code alphabetical. It identifies the color of the lighting fitting body, the color is in the list; Example: SB Silver Bombalai, BL = Bronze Lario, ect.

## LEGGENDA

### KEY TO SYMBOLS

	Certifica che il prodotto è realizzato in ambito della Comunità Europea e ne rispetta le norme di sicurezza vigenti.	<i>It certifies that product has been realized respecting European Community security norms.</i>
	Classe di isolamento 1	<i>Isolation class 1</i>
	Classe di isolamento 2	<i>Isolation class 2</i>
	Classe di isolamento 3	<i>Isolation class 3</i>
	Apparecchio idoneo per l'utilizzo in ambienti interni	<i>Fitting suitable for internal environments use</i>
	Accessorio attacco a binario	<i>Track mounting system accessory</i>
	Base per fissaggio a parete	<i>Wall mounting base</i>
	indica le tensioni operative dell'apparecchio	<i>it identifies the operating voltage of the fitting</i>
	indica le tensioni operative dell'apparecchio	<i>it identifies the operating voltage of the fitting</i>
	indica le frequenze operative dell'apparecchio	<i>It identifies the operating frequencies of the fitting</i>
	Indica il valore massimo espresso con numero di ellissi di Mac Adam relativo alla selezione del CHIP LED.	<i>It identifies the maximum value relative the selection of the CHIP LED expressed with number Mac Adam of ellipses.</i>
	Indice di abbagliamento	<i>Glare index</i>
	Aspettativa di vita LED	<i>LED service Life</i>
	Vedi condizioni di vendita (vedi pag. 112)	<i>See general conditions (see page 112)</i>
	Efficienza energetica	<i>Energy efficiency</i>
	Possibilità di equipaggiamento con funzionalità "DALI" (accensione e dimmerazione comandati tramite controllo digitale DALI).	<i>DALI function available on request n(lighting and dimming controlled by DALI digital control).</i>
	Possibilità di equipaggiamento con funzionalità "PUSH-DIM" (Accensione e dimmerazione comandati tramite pulsante N.A.)	<i>PUSH-DIM function available on request (lighting and dimming controlled by n.o. button).</i>
	Possibilità di gestire la temperatura colore della luce variando la corrente di alimentazione (abbassando l'intensità luminosa si crea luce calda).	<i>Possibility to manage the light colour temperature through the modify of the power current (lowering the light intensity creates warm light).</i>
	LED con luce speciale per risaltare ed evidenziare oggetti con colori saturi; adatto per tessuti, oggettistica e tutte le applicazioni in cui il colore dell'oggetto deve essere evidenziato.	<i>Special LED light suitable to stand out and highlight the saturated colours; used for fabrics, objects and all the applications where the colour of the object must be highlighted.</i>
	LED con luce speciale per risaltare le tonalità dei prodotti vegetali; adatto per esposizioni di prodotti ortofrutticoli.	<i>Special LED light suitable to stand out the vegetable products; used for the exhibition of fruits and vegetables.</i>
	LED con luce speciale per risaltare le tonalità bianche; adatto per abiti, gioielli e tutti i prodotti dove è necessario evidenziare il colore bianco della superficie.	<i>Special LED light suitable to stand out the white tones; used for clothes and jewelry and all the products in which the white colours of the surface must be highlighted.</i>
	LED con luce speciale per risaltare le tonalità dei prodotti a base di carne; adatto a banchi frigo, macellerie, e tutti i casi in cui è necessario evidenziare il colore rosa/rosso delle merci esposte.	<i>Special LED light suitable to stand out the tones of the meat products; used for refrigerated counters, butchers, and when it's necessary to highlight the pink/red colour of the goods on display.</i>
	Assenza di flickering	<i>Flickering free</i>



# SIMBOLI ED ABBREVIAZIONI

## SYMBOLS AND ABBREVIATIONS



Seguito da una cifra indica il grado di resistenza all'urto dell'involucro esterno dell'apparecchio.

When followed by one number, it indicates degree of resistance of the outer shell of the fixture to the impact.

Codice   Code IK	IK00	IK01	IK02	IK03	IK04	IK05	IK06	IK07	IK08	IK09	IK10
Energia di impatto in Joule Impact energy in Joule	-	0,15	0,2	0,35	0,5	0,7	1	2	5	10	20



Indica il grado di protezione alle polveri ed all'acqua dell'apparecchio.

Indicated the protection degree of the fixture against dust and water.

PRIMA CIFRA FIRST NUMBER		SECONDA CIFRA SECOND NUMBER		LETTERA OPZIONALE AGGIUNTIVA ADDITIONAL OPTIONAL LETTER	
Livello	Definizione Definition	Livello	Definizione Definition	Livello	Definizione Definition
<b>IP0X</b>	Nessuna protezione al contatto e ingresso di oggetti. No protection against the contact and entering of objects.	<b>IPX0</b>	Non protetto. Not protected	<b>A</b>	Protetto contro l'accesso con il dorso della mano. Protected against access with the back of the hand.
<b>IP1X</b>	Qualsiasi grande superficie del corpo, come il dorso della mano, ma nessuna protezione contro il contatto intenzionale con una parte del corpo (50mm). Any big body surface, like the back of the hand, but no protection against intentional contact with a body part (50mm).	<b>IPX1</b>	Protetto da caduta verticale di gocce d'acqua. Protected against the vertical fall of water drops.	<b>B</b>	Protetto contro l'accesso con un dito. Protected against access with a finger.
<b>IP2X</b>	Protetto contro corpi solidi di dimensioni superiori a 12mm. Protected against solids over 12mm.	<b>IPX2</b>	Protetto da caduta di gocce d'acqua con inclinazione massima 15°. Protected against water drops with maximum inclination 15.	<b>C</b>	Protetto contro l'accesso con un attrezzo. Protected against access with a tool.
<b>IP3X</b>	Protetto contro corpi solidi di dimensioni superiori a 2,5mm. Protected against solids over 2,5mm.	<b>IPX3</b>	Protetto dalla pioggia. Protected against rain drops.	<b>D</b>	Protetto contro l'accesso con un filo. Protected against access with a wire.
<b>IP4X</b>	Protetto contro corpi solidi di dimensioni superiori a 1mm. Protected against solids over 1mm.	<b>IPX4</b>	Protetto da spruzzi. Protected against water splashes.		
<b>IP5X</b>	Protetto contro la polvere. Protected against dust.	<b>IPX5</b>	Protetto da getti d'acqua. Protected against water jets.		
<b>IP6X</b>	Totamente protetto contro la polvere. Entirely protected against dust.	<b>IPX6</b>	Protetto da ondate. Protected against waves.		
		<b>IPX7</b>	Protetto da immersione temporanea. Protected against temporary immersion.		
		<b>IPX8</b>	Protetto da immersione continua. Protected against continuous immersion.		



In accordo al par 6.1 della EN 62471: 2008 i gruppi di rischio (per luce blu) sono definiti come segue:

RG According to par. 6.1 of EN 62471: 2008 risk groups (for blue light) are defined as follows:

- **RG 0 Rischio Esente**  
Il concetto di base per la classificazione del gruppo Esente è che la lampada non provoca nessun rischio fotobiologico. Tale requisito è soddisfatto da qualsiasi lampada che non provochi un rischio retinico da luce blu (LB) entro 10.000 s (circa 2,8 h) di esposizione.
- **RG 1 Rischio Basso**  
Il concetto di base per tale classificazione è che la lampada non provoca rischio dovuto a normali limitazioni di funzionamento sull'esposizione. Tale requisito è soddisfatto da qualsiasi lampada che eccede i limiti del Gruppo Esente ma non provochi un rischio retinico da luce blu (LB) entro 100 s di esposizione.
- **RG 2 Rischio Moderato**  
Il concetto di base per la classificazione del Gruppo di Rischio 2 (Rischio Moderato) è che la lampada non provoca un rischio in seguito ad una reazione istintiva guardando sorgenti di luce molto luminose (o in seguito ad una sensazione di disagio termico). Tale requisito è soddisfatto da qualsiasi lampada che eccede i limiti del Gruppo di Rischio 1 (Rischio Basso) ma non provochi un rischio retinico da luce blu (LB) entro 0,25 s di esposizione (risposta avversiva).
- **RG 3 Rischio Elevato**  
Il concetto di base per tale classificazione è che la lampada può costituire un rischio anche in seguito a un'esposizione momentanea o breve. Le lampade che superano i limiti del Gruppo di Rischio 2 sono comprese nel Gruppo di Rischio 3 (Rischio Elevato).

- **RG 0 Exempt Risk Group**  
The basic concept for the classification of Exempt risk group is that the luminaire does not cause any photobiological risk. This requirement is met by any luminaire, which does not cause any retina risk from blue light (BL) within 10,000 s exposure (about 2,8 h).
- **RG 1 Low Risk Group**  
The basic concept for this classification is that the luminaire does not cause any risk due to normal operating limitations at the exposure. This requirement is met by any luminaire, which exceeds the limits of the Exempt Group, however, it does not cause any retina risk from blue light (BL) within 100 s exposure.
- **RG 2 Intermediate Risk Group**  
The basic concept for the Risk Group 2 classification (Intermediate Risk) is that the luminaire does not cause any risk as a result of gut reaction when looking at extremely bright light sources (or as a result of thermal feeling of discomfort). This requirement is met by any luminaire which exceeds the limits of the Risk Group 1 (Low Risk Group), however, it does not cause any retina risk from blue light (BL) within 0,25 s exposure (aversive response).
- **RG 3 High Risk**  
The basic concept for this classification is that the luminaire may cause a risk even as a result of a momentary or brief exposure. The luminaires, which exceed the limits of Risk Group 2 are included into Risk Group 3 (High Risk).



Il Ra (Rendering index) / CRI (Colour Rendering index) indica quanto naturali appaiano i colori degli oggetti da essa illuminati. Apparecchi con indice Ra>80 sono perfetti per l'illuminazione generale di interni ed offrono un ottimo comfort visivo. Per applicazioni dove è necessaria una maggiore definizione dei colori IDEALLUX propone soluzioni con Ra>90.

Ra (Rendering index)/ CRI (Colour Rendering index) indicates how natural the colours of the illuminated objects look. The fixtures with Ra>80 are perfect for internal illumination and offer an excellent visual comfort. For the applications, where a higher colour definition is required, IDEALLUX offers solutions with Ra>90.











Indica il grado di autoestinguenza delle materie plastiche secondo gli standard CEI 50-11. La prova consiste nel simulare le sollecitazioni termiche che possono essere prodotte dalle sorgenti di calore e di accensione in modo da valutare il pericolo di innesco incendio. La sorgente di calore è filo incandescente di Ø4 mm con temperature di prova: 650°C, 750°C, 850°C e 960°C. Il filo incandescente è applicato sull'involucro per 30 secondi e fiamma generata deve cessare entro 20 s dalla rimozione del filo; sotto l'involucro deve essere posizionata carta velina che non deve incendiarsi a contatto con eventuali gocce di materiale liquefatto.

It indicates the flammability degree of plastic materials according to CEI 50-11 standards. The test consists in simulating thermal stress which can be caused by heat and ignition sources in order to identify the risk of fire triggering. The heat source is a glow wire of diam. 4 mm with the test temperatures: 650°C, 750°C, 850°C and 960°C. The glow wire is applied onto the shell for 30 seconds and the generated flame has to stop within 20 s from wire removal; vellum paper should be put underneath the shell and it is not supposed to catch fire on coming in contact with any drops of liquefied material.



## SYMBOLES ET ABRÉVIATIONS SÍMBOLOS Y ABREVIATURAS

	Certifie que le produit est réalisé au sein de l'Union Européenne et dans le respect des normes de sécurités en vigueur	<i>Certifica que el producto es realizado en el ambito de la Comunidad Europea y respeta las normas de seguridad vigentes</i>
	Classe d'isolation 1	<i>Clase de aislamiento 1</i>
	Classe d'isolation 2	<i>Clase de aislamiento 2</i>
	Classe d'isolation 3	<i>Clase de aislamiento 3</i>
	Luminaire adapté pour une installation en intérieur	<i>Luminaria adecuada para uso en interiores</i>
	accessoire de fixation de rail	<i>accesorio de fijación de carril</i>
	Base pour fixation murale	<i>Base para fijación a pared</i>
	Indique les tensions de travail de l'appareil	<i>Indica las tensiones operativas de la luminaria</i>
	Indique les tensions de travail de l'appareil	<i>Indica las tensiones operativas de la luminaria</i>
	Indique les fréquences de travail de l'appareil	<i>Indica las frecuencias operativas de la luminaria.</i>
	Indique la valeur maximale concernant la sélection du chip led exprimée par la taille de l'ellipse MacAdam.	<i>Identifica el valor máximo relativo de la selección del CHIP LED indicado con el número de MacAdam de elipses.</i>
	Indice d'éblouissement	<i>Índice de deslumbramiento</i>
	Durée de vie LED	<i>Viad Util LED</i>
	Garantie. Plus de détails sur notre page Web.	<i>Garantía. más detalles en nuestra página web.</i>
	Classe de consommation d'énergie	<i>Clase de consumo de energia</i>
	Schéma di connexion pour appareil DALI	<i>Esquema de conexiòn luminaria DALI</i>
	Possibilité d'équipement avec fonction "PUSH-DIM" (allumage et dimmer commandés par la touche N. A).	<i>Posibilidad de equipamiento con función "PUSH-DIM" (encendido i regulación controlados co teca N.A.).</i>
	Possibilité de gérer la température de couleur de la lumière en faisant varier l'alimentation (baisser l'intensité lumineuse crée une lumière chaude)	<i>Capacidad para gestionar la temperatura de color de la luz variando la fuente de alimentación (al reducir la intensidad de la luz se crea una luz cálida)</i>
	LED avec lumière spéciale pour se démarquer et mettre en valeur les objets avec des couleurs saturées; convient aux tissus, objets et toutes applications où la couleur de l'objet doit être mise en valeur	<i>LED con luz especial para resaltar y resaltar objetos con colores saturados; Adecuado para tejidos, objetos y todas las aplicaciones donde se debe resaltar el color del objeto</i>
	LED avec lumière spéciale pour rehausser les nuances des produits végétaux; convient pour les étalages de fruits et légumes	<i>LED con luz especial para realzar las tonalidades de los productos vegetales; Apto para exhibiciones de frutas y verduras</i>
	LED avec lumière spéciale pour faire ressortir les tons blancs; convient pour les vêtements, les bijoux et tous les produits où il est nécessaire de mettre en valeur la couleur blanche de la surface	<i>LED con luz especial para resaltar los tonos blancos; Apto para ropa, bisutería y todos los productos donde sea necesario resaltar el color blanco de la superficie</i>
	LED avec lumière spéciale pour rehausser le ton des produits carnés; convient pour les comptoirs réfrigérés, les bouchers, et tous les cas où il est nécessaire de mettre en évidence la couleur rose/rouge des marchandises exposées.	<i>LED con luz especial para realzar el tono de los productos cárnicos; Apto para mostradores refrigerados, carnicerías y todos los casos en los que sea necesario resaltar el color rosa / rojo de la mercancía expuesta.</i>
	Absence vacillante	<i>Ausencia parpadeo</i>

# SYMBOLES ET ABRÉVIATIONS SÍMBOLOS Y ABREVIATURAS

IK ..  
EN 60808

Suivi d'un chiffre définit le degré de protection de l'emballage du produit contre les impacts mécaniques externes.

Seguido de un dígito indica el grado de resistencia al impacto de la cubierta externa de la luminaria.

Code IK Código	IK00	IK01	IK02	IK03	IK04	IK05	IK06	IK07	IK08	IK09	IK10
Énergie d'impact en Joule Energía de impacto en Joules	-	0,15	0,2	0,35	0,5	0,7	1	2	5	10	20

IP ..  
EN 60529

Indique le degré de protection de l'appareil contre les poussières et l'eau. Indica el grado de protección de la luminaria al polvo y al agua.

PREMIER CHIFFRE PRIMERA CIFRA		DEUXIÈME CHIFFRE SEGUNDA CIFRA		LETTRE OPTION AJOUTÉE LETRA OPCIONAL ADJUNTA	
Livello	Definizione Definition	Livello	Definizione Definition	Livello	Definizione Definition
<b>IPOX</b>	Aucune protection au contact et à l'entrée d'objets. Ninguna protección al contacto o ingreso de objetos.	<b>IPX0</b>	Non protégé. No protegido	<b>A</b>	Protégé contre l'accès avec le dos de la main. Protegido contra el encendido con el dorso de la mano.
<b>IP1X</b>	N'importe quelle grande superficie du corps, comme le dos de la main, mais aucune protection contre le contact intentionnel avec une partie du corps. (50 mm). Cualquier superficie grande del cuerpo, como el dorso de la mano, pero ninguna protección contra el contacto intencional con una parte del cuerpo (50 mm).	<b>IPX1</b>	Protégé contre la chute verticale de gouttes d'eau. Protegido de la caída vertical de gotas de agua.	<b>B</b>	Protégé contre l'accès avec un doigt. Protegido del encendido con un dedo.
<b>IP2X</b>	Protégé contre des corps solides de dimension supérieure à 12 mm. Protegido de cuerpos sólidos superiores a 12 mm.	<b>IPX2</b>	Protégé contre les chutes de gouttes d'eau ayant une inclinaison maximale de 15°. Protegido de caída de gotas de agua con inclinación máxima 15°.	<b>C</b>	Protégé contre l'accès avec un outil. Protegido contra el encendido con un instrumento.
<b>IP3X</b>	Protégé contre les corps solides ayant une dimension supérieure à 2,5 mm. Protegido de cuerpos sólidos superiores a 2,5 mm.	<b>IPX3</b>	Protégé contre la pluie. Protegido de la lluvia.	<b>D</b>	Protégé contre l'accès avec un fil. Protegido del encendido con cuerda o cable.
<b>IP4X</b>	Protégé contre les corps solides ayant une dimension supérieure à 1 mm. Protegido de cuerpos sólidos de dimensión superior a 1 mm.	<b>IPX4</b>	Protégé contre les jets. Protegido de salpicaduras.		
<b>IP5X</b>	Protégé contre la poussière. Protección del polvo.	<b>IPX5</b>	Protégé contre les jets d'eau. Protegido de chorros de agua.		
<b>IP6X</b>	Totalement protégé contre la poussière. Completamente protegido del polvo.	<b>IPX6</b>	Protégé contre les submersions. Protegido de olas.		
		<b>IPX7</b>	Protégé contre une immersion temporaire. Protegido de inmersión temporal.		
		<b>IPX8</b>	Protégé contre une immersion continue. Protegido de inmersión continua.		

RG ..  
EN 62471

RG En accord avec le paragraphe 6.1 de la norme EN 62471 : 2008 les groupes de risques (pour la lumière bleue) sont définies comme suit:

• **RG 0 Risque 0**

Le concept de base pour la classification du groupe risque 0 définit que la lampe ne provoque aucun risque photobiologique. Cette condition est remplie par toutes les lampes qui ne provoquent pas de risque rétinien, lié à la lumière bleue, (LB) compris dans les 10.000 s (environ 2,8 h) d'exposition.

• **RG 1 Risque faible**

Le concept de base adopté pour cette classification définit que la lampe ne provoque pas de risques dus aux limitations normales de fonctionnement sur l'exposition. Cette exigence est satisfaite par toute lampe qui excède les limitations du Gruppo Esente (Risque 0) mais ne provoque pas de risque rétinien lié à la lumière bleue (LB) compris dans les 100 s d'exposition.

• **RG 2 Risque modéré**

Le concept de base adopté pour la classification du Gruppo di Rischio 2 (Risque modéré) définit que la lampe ne provoque pas de risque après une réaction instinctive en regardant des sources de lumière très lumineuse (après sensation de désagrément thermique). Cette exigence est satisfaite par n'importe quelle lampe qui excède les limites du Gruppo di Rischio 1 (Risque faible) mais ne provoque pas un risque rétinien lié à la lumière bleue (LB) compris dans les 0,25 s d'exposition (réponse adverse).

• **RG 3 Risque élevé**

Le concept de base adopté pour la classification définit que la lampe peut constituer un risque même après une exposition momentanée ou brève. Les lampes qui dépassent les limites du Gruppo di Rischio (Risque élevé) sont incluses dans le Gruppo di Rischio 3 (Risque élevé).

RG En acuerdo al par 6.1 de la EN 62471:2008 los grupos de riesgo (por luz azul) son definidos como sigue:

• **RG 0 Riesgo Exento**

El concepto básico para la clasificación del grupo Exento es que la lámpara no cause ningún riesgo fotobiológico. Este requisito se cumple con cualquier lámpara que no provoque riesgo retiniano por luz azul (LB) hasta 10.000s (aproximadamente 2,8 h) de exposición.

• **RG 1 Riesgo Bajo**

El concepto básico de esta clasificación es que la lámpara no cause ningún riesgo a normales limitaciones de funcionamiento en exposición. Este requisito es cumplido por cualquier lámpara que supera los límites del Grupo de Riesgo 1 (Riesgo Bajo), pero no causa riesgo retiniano por luz azul (LB) hasta 100 s de exposición.

• **RG 2 Moderado**

El concepto básico para la clasificación del Grupo de Riesgo 2 (Riesgo Moderado) es que la lámpara no cause riesgo como resultado de una reacción instintiva mirando fuentes de luz muy luminosas (o luego de sensación de desequilibrio térmico). Este requisito es cumplido por cualquier lámpara que supera los límites del Grupo de Riesgo 1 (Riesgo Bajo), pero no causa riesgo retiniano por luz azul (LB) hasta 0,25 s exposición (respuesta adversa).

• **RG 3 Riesgo Elevado**

El concepto de base para esta clasificación es que la lámpara puede constituir riesgo aún luego de exposición breve o momentánea. Las lámparas que excedan los límites del Grupo de Riesgo 2 se incluyen en el Grupo de Riesgo 3 (Riesgo Elevado).

>90  
CRI

Il **Ra (Rendering index) / CRI (Colour Rendering index)** indique le rendement des couleurs des objets éclairés. Des appareils avec un indice Ra>80 sont parfaits pour l'illumination générale d'intérieur et offrent un confort visuel optimal. Pour des applications nécessitant une définition majeure des couleurs Ideallux propose des solutions avec un Ra>90.

Il **Ra (Rendering index) / CRI (Colour Rendering index)** indica cuánto naturales aparecen los colores de los objetos iluminados por tal. Dispositivos con índice Ra> 80 perfectos para iluminación general de interiores y proporcionan un excelente confort visual. Para aplicaciones donde se requiere una mayor definición de color IDEALLUX propone soluciones con Ra> 90.

850°  
EN 60598

Indique le degré d'auto-extinction des matières plastiques selon les standards **CEI 50-11**. Le Test consiste à simuler les sollicitations thermiques qui peuvent être produites par les sources de chaleur et d'allumage pour évaluer le danger d'amorcer un incendie. La source de chaleur est un fil incandescent de Ø4 mm avec une température d'essai de : 650°C, 750°C, 850°C et 960°C. Le fil incandescent est appliqué sur l'enveloppe pendant 30 secondes et la flamme provoquée doit cesser dans les 20 secondes après avoir enlevé le fil ; un papier vélin, qui ne doit pas s'enflammer au contact avec certains matériaux liquéfiés, doit être positionné sous l'enveloppe.

Indica el grado de auto extinción del material plástico según los estándares **estadounidense CEI 50-11**. La prueba consiste en simular la tensión térmica que puede producirse a partir de fuentes de calor y de ignición, a fin de evaluar el peligro de ignición o incendio. La fuente de calor es alambre incandescente Ø4 mm con temperaturas de prueba: 650° C, 750° C, 850° C y 960° C. El alambre incandescente se aplica a la cubierta por 30 segundos y la llama generada debe cesar antes de 20 s después de la extracción del alambre; debajo de la cubierta se coloca papel de seda que no debe encender en contacto con eventuales gotas material licuefactible.

# INDICE ANALITICO PRODOTTI E ACCESSORI

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# CONDIZIONI GENERALI DI VENDITA

## GENERAL SALES CONDITIONS

### 1. PREMESSE

Le forniture comprendono solo quanto espressamente specificato nella conferma di accettazione dell'ordine della ditta Venditrice e sono regolate dalle presenti condizioni generali, salvo deroghe risultanti da esplicito accordo scritto. Eventuali variazioni o comunicazioni durante il corso della fornitura non costituiscono invalidazione del contratto. I termini di consegna convenuti hanno valore indicativo e non tassativo. In qualunque momento l'esecuzione della fornitura potrà essere sospesa in caso di mutamento nelle condizioni patrimoniali del Committente ai sensi dell'Art. 1461 del Codice Civile.

### 2. PREZZI

I prezzi si intendono Franco Fabbrica della ditta Venditrice. Essi non comprendono prestazioni ed oneri non menzionati. Gli imballaggi sono inclusi nel prezzo, salvo diversa pattuizione scritta.

### 3. VARIABILITA' PREZZI

I prezzi indicati nel contratto sono stati calcolati in base ai costi dei materiali e della manodopera alla data del contratto stesso, in base alle relative tabelle dell'ANIE. Il sistema di calcolo delle variazioni di qualsiasi entità in più o in meno, che dovessero verificarsi su detti costi durante il periodo dell'esecuzione della vendita, verrà effettuato in base alle clausole di variabilità prezzi vigenti per apparecchi di illuminazione pubblicato dall'ANIE.

### 4. MODALITA' DI PAGAMENTO

Si riconoscono solo i pagamenti fatti direttamente al nostro domicilio o a persone da noi autorizzate.

### 5. RISERVA DI PROPRIETA'

La ditta Venditrice conserva la proprietà sui materiali fino a totale pagamento di essi, ma i rischi sono assunti dal compratore sin dalla consegna. Qualunque atto del Committente che, salvo esplicito consenso scritto della Ditta Venditrice, involga pregiudizio al diritto della Ditta Venditrice alla rivendita del materiale, sarà sottoposto alle sanzioni di legge.

### 6. CONSEGNA

Il termine di consegna indicato non impegna la Ditta Venditrice, la quale non è tenuta a corrispondere indennizzi di sorta per eventuali danni diretti ed indiretti dovuti a ritardi di consegna o ad interruzione o a risoluzione parziale o totale della fornitura. Il termine di consegna decorre dalla data della conferma d'ordine e in ogni caso non ha inizio prima del ricevimento della rata di pagamento all'ordine quando essa sia stata concordata. Esso si intende di diritto adeguatamente prorogato se i pagamenti non vengono effettuati puntualmente, se il Committente manca di fornire in tempo utile quanto stabilito nel contratto o se comunque insorgano cause indipendenti dalla Ditta Venditrice, ivi compresi eventuali ritardi di subfornitori.

### 7. RESO MERCE

La merce può essere resa esclusivamente previa autorizzazione della Ditta Venditrice e con un deprezzamento minimo del 30%

### 8. TRASPORTO

La merce viaggia rischio e pericolo del Committente comprese le eventuali rotture anche se spedita in porto franco. Trascorsi 8 giorni dal ricevimento non si accettano reclami. Gli ordini saranno evasi secondo la disponibilità e le spedizioni potranno essere fatte anche parzialmente.

### 9. DATI TECNICI

I materiali forniti, salvo diverse particolari prescrizioni da concordarsi per iscritto, corrispondono alle vigenti norme del CEI - Comitato Elettrotecnico Italiano, ove queste siano applicabili. La ditta Venditrice si riserva di apportare in qualunque momento ai propri prodotti quelle modifiche che ritenesse tecnicamente convenienti. I disegni dalle Ditta Venditrice sono di sua proprietà e non possono dal Committente essere consegnati a terzi né prodotti senza autorizzazione scritta.

### 10. GARANZIA

Ideallux garantisce i suoi prodotti per 24 mesi dalla data di fabbricazione indicata sul prodotto. La garanzia copre tutti i difetti di fabbricazione siano essi di natura meccanica o elettronica. Non sono inclusi in garanzia tutti i danni causati dalla movimentazione e/o utilizzo errato e non conforme a quanto riportato sulle istruzioni d'uso. La garanzia decade nel caso in cui i prodotti vengano manomessi e/o modificati. Il prodotto difettoso per cui è richiesto l'intervento in garanzia, può essere riparato o sostituito con un articolo complementare sia nuovo che ricondizionato ad insindacabile giudizio di Ideallux. I prodotti che riportano il marchio "5 years warranty" sono coperti da 5 anni di garanzia considerando 14h/giorno per 365 giorni solari annuali, nel rispetto del lifetime indicato sulla scheda prodotto. I reclami per interventi in garanzia entro i 5 anni dalla data di fabbricazione (ad esclusione di quelli ricevuti entro i termini legislativi sopra indicati) saranno soggetti ad approvazione di Ideallux. Guasti che rientrano nella difettosità fisiologica dichiarata e comunque entro il 5% del totale degli articoli installati non sono coperti dalla garanzia 5 anni. Termini e condizioni generali di garanzia sono disponibili e possono essere richiesti presso la sede Ideallux.

### 11. CONTROVERSIE

I contratti, anche se stipulati con cittadini esteri o per materiali forniti all'estero, sono regolati dalla vigente legislazione italiana. Foro competente è soltanto quello avente giurisdizione nella sede legale della Ditta Venditrice anche in deroga agli art. 32 e seguenti del Codice di Procedura Civile, esclusa per il Committente la possibilità di adire l'Autorità Giudiziaria di altro luogo anche in via di garanzia o di connessione di causa, ma salva la facoltà alla Ditta Venditrice di esperire, in qualità di attrice, un'azione nel luogo di residenza, in Italia o all'estero, del Committente. Le eventuali contestazioni non dispensano il Committente dall'osservare le condizioni di pagamento pattuite e non implicano alcun prolungamento dei termini convenuti. Le spese di contratto, la sua registrazione e l'eventuale trascrizione sono a carico del Committente.

### 1. INTRODUCTION

*The supplies include only what is expressly specified in the order acceptance confirmation of the Vending Company and are governed by these general conditions, save for provisions resulting from an explicit written agreement. Any changes or notifications during the supply do not constitute the invalidation of the contract. The agreed delivery terms are merely indicative and are not binding. The execution of the supply may be suspended at any time due to changes to the financial conditions of the Buyer in accordance with the Art. 1461 of the Italian Civil Code.*

### 2. PRICES

*The prices are Ex-works of the Vending Company and do not include services at charges that have not been mentioned. The packages are included in price. The package cannot be returned, save for a different written agreement.*

### 3. CHANGES IN PRICES

*The prices shown in the contract were calculated based on the costs of the materials and of the labor on the date of the contract based on the related ANIE tables. The calculation system of any kind of changes, whether more or less, that may arise to said costs during the period of execution of the sale will be carried out based on the clauses of the changes of prices in force for lighting equipment published by ANIE.*

### 4. PAYMENT

*We recognize as valid payment only the ones made directly to our address or to our authorized people.*

### 5. RETENTION OF TITLE

*The Vending Company keeps the ownership of materials until paid in full, but the risks are assumed by the Buyer upon delivery. Any action of the Buyer, that results in prejudice to the right of the Vending Company to resell the material, will be subjected to legal sanctions, save for the explicit written consent of the Vending Company.*

### 6. DELIVERY

*The delivery period shown does not bind the Vending Company, which is not bound to pay indemnities arising from any direct or indirect damage due to delivery delays, downtime or the partial or total return of the supply. The delivery period is effective from the date of the order confirmation and in any case does not begin prior to having received the payment instalment for the agreed amount. This term is adequately extended by right if the payments are not made punctually, if the Buyer fails to supply what is set out in the contract in useful time or if causes nonetheless arise regardless of the Vending Company, therein including any delays of sub-contractors.*

### 7. RETURN OF GOODS

*The goods may only be returned upon the authorization of the Vending Company and with a depreciation of 30%.*

### 8. TRANSPORT

*The goods travel at Customer's risks and danger, even in case of damage in fall of delivery terms Free destination.*

### 9. TECHNICAL DATA

*Save for special prescriptions to be agreed in writing, the materials supplied correspond to the standards in force of the CEI (Italian Electrical and Technical Council), where applicable. The Vending Company reserves the right to change its products at any time where deemed technically convenient. The designs of the Vending Company are its own property and may not be given by the Buyer to third parties without written authorization.*

### 10. WARRANTY

*IDEALLUX guarantees its products for 24 months from the date of production indicated on the item. The warranty covers all manufacturing defects whether they are of a mechanical or electronic nature. All damage caused by handling and / or incorrect use, or use not in accordance with the instructions indicated in the operating instructions are not covered by this warranty. The warranty will expire if the products are tampered with and/or modified. The defective product requiring warranty intervention can be repaired or replaced with a similar article both new and reconditioned at the discretion of Ideallux. The products with mark "5 years warranty" are covered by 5 years warranty considering 14 h/day for 365 solar annual days, respecting the lifetime indicated in the product data sheet. Claims for warranty work within 5 years from the date of manufacture (except those received within the above mentioned legislative terms) will be subject to Ideallux approval. Faults that fall within the declared physiological defect and in any case within 5% of the total installed items will not be covered by the 5 years warranty. Warranty general terms and conditions are available and can be requested at Ideallux offices.*

### 11. DISPUTES

*Even if stipulated with foreign citizens or for materials supplied abroad, the contracts are governed by the Italian legislation in force. The only competent court is the one having jurisdiction in the registered office of the Vending Company, also in provision of Art. 32 and ff. of the Italian Code of Civil Procedure, apart from the Buyer's possibility of applying to the Judicial Authority of another place also as a guarantee or related cause, but save for the right of the Vending Company to carry out an action in the place of residence of the Buyer in Italy or abroad as the plaintiff. Any disputes do not waive the Buyer from observing the agreed payment conditions and do not imply any extension of the agreed terms. The costs of the contract, its registration and transcription are at the expense of the Buyer.*

Le informazioni e le caratteristiche tecniche possono essere soggette a variazioni senza preavviso. Ideallux® si riserva in qualsiasi momento, a suo giudizio e senza preavviso, di apportare modifiche ai prodotti inseriti nel proprio catalogo. I dati tecnici contenuti nel catalogo sono da considerarsi validi salvo errori e/o omissioni. La riproduzione del materiale contenuto nel presente catalogo è vietata senza il consenso scritto da parte di Ideallux®.

*The information and specifications are subject to changes without notice. Ideallux® reserves the right at any time at its discretion and without notice, to make changes to the products included in its catalogue. The technical data in the catalogue are valid except for errors and/or omissions. The reproduction of the material contained in this catalogue is prohibited without the written consent of Ideallux®.*

# CONDITIONS GÉNÉRALES DE VENTE

## CONDICIONES GENERALES DE VENTA

### 1. GÉNÉRALITÉS

Les fournitures comprennent exclusivement les indications expressément spécifiées dans la confirmation d'acceptation de la commande par le vendeur et sont réglementées par les conditions générales présentes, sauf en cas de dérogations résultant d'accord écrit explicite. Des variations éventuelles ou des communications durant le déroulement de la fourniture ne constituent pas d'invalidation du contrat. Les termes de livraison convenus ont une valeur indicative et non impérative. À tout moment, l'exécution de la fourniture pourra être suspendue en cas de changement dans les conditions patrimoniales du Client aux termes de l'article 1461 du Code Civil.

### 2. PRIX

Les prix sont départ usine du vendeur, ils ne comprennent pas les charges pour prestations non mentionnées. Les emballages ne sont pas à retourner, sauf en cas de convention contraire écrite.

### 3. VARIATIONS DES PRIX

Les prix indiqués dans le contrat ont été calculés en fonctions des couts des matériaux et de la main d'œuvre à la date du contrat, en fonction des tableaux de l'ANIE correspondants. Le système de calcul des variations de toute entité en plus ou en moins qui aurait lieu sur ces coûts durant la période de l'exécution de la vente, sera effectué en fonction des clauses de variation des prix en vigueur pour les appareils d'éclairage publiés par l'ANIE.

### 4. MODALITÉS DE PAIEMENT

Les paiements pourront être effectués uniquement au domicile du vendeur ou à des personnes autorisées.

### 5. RÉSERVE DE PROPRIÉTÉ

Le Vendeur conserve la propriété sur les matériels jusqu'au paiement total de ceux-ci mais les risques sont assumés par l'acheteur dès la livraison. Tout acte du Client, sauf en cas de consentement écrit explicite du vendeur, qui porterait préjudice au droit du Vendeur en cas de revente du matériel sera soumis à des sanctions légales.

### 6. LIVRAISON

Le délai de livraison indiqué n'engage pas le Vendeur et ne pourra pas donner droit à des indemnités d'aucune sorte pour d'éventuels dommages directs et indirects dus à des retards de livraison ou à une interruption ou à une résolution partielle ou totale de la fourniture. Le délai de livraison prend effet à partir de la date de confirmation de commande et dans tous les cas ne commence pas avant la réception du paiement accord par acompte de la commande. Sa prorogation est légalement valable : en cas de paiements qui ne seraient pas effectués ponctuellement, si le Client ne fournit pas en temps utile ce qui est établi sur le contrat ou si des causes indépendantes de la volonté du Vendeur surviennent, y compris des retards éventuels des sous-traitants.

### 7. RENDU DE MARCHANDISE

La marchandise peut être vendue exclusivement avec l'accord du vendeur et avec une dépréciation de 30 %.

### 8. TRANSPORT

La marchandise voyage aux risques et périls du Client y compris les éventuelles ruptures même si l'expédition est franco destination. Le Vendeur n'acceptera pas de réclamations au-delà du délai de 8 jours à partir de la date de réception. Les commandes seront expédiées selon les disponibilités et les expéditions pourront être effectuées même partiellement.

### 9. DONNÉES TECHNIQUES

Les matériaux fournis, sauf en cas de prescriptions particulières à accorder par écrit, correspondent aux normes en vigueur du CEI - Comité Electrotechnique Italien là où elles sont applicables. Le vendeur se réserve le droit d'apporter toute modification qu'il retient techniquement appropriée à tout moment aux propres produits. Les dessins des Vendeurs sont de sa propriété et le Client ne peut pas les livrer à des tiers, ni les produire sans autorisation écrite.

### 10. GARANTIE

Ideallux garantit tous ses produits pendant 24 mois à partir de la date de fabrication indiquée sur le produit. La garantie couvre tous les défauts de fabrication de nature mécanique ou électronique. Tous les dommages causés par la manutention et/ou l'utilisation incorrecte et non conforme aux indications figurant sur les instructions d'utilisation sont exclus de la garantie. La garantie n'est pas valable en cas d'endommagement et/ou modification des produits. Le produit défectueux pour lequel on demande une intervention sous garantie, peut être réparé ou remplacé par un article complémentaire neuf ou reconditionné selon les critères de jugement, sans appel, de Ideallux. Les produits portant la mention "5 years warranty" sont couverts par une garantie de 5 ans considérant 14 heures/jour pour 365 jours, dans le respect de la Durée de vie (lifetime) indiquée sur la fiche technique du produit. Les réclamations pour des interventions garanties durant les 5 années à partir de la date de fabrication (à l'exclusion de celles reçues dans les délais législatifs indiqués ci-dessus) seront soumises à l'approbation de Ideallux. Les pannes faisant partie d'un défaut physiologique déclaré et à hauteur de 5 % du total des articles installés ne sont pas couverts par la garantie de 5 ans. Les termes et conditions générales de garantie sont disponibles et peuvent être demandés au siège de Ideallux.

### 11. CONTROVERSES

Les contrats, même stipulés avec des citoyens étrangers ou pour des matériaux fournis à l'étranger, sont réglementés par la législation italienne en vigueur. Le tribunal compétent est exclusivement celui de la juridiction du siège légal du Vendeur même en cas de dérogation aux art. 32 et art. suivants du Code de Procédure Civile, le client n'ayant pas la possibilité de recourir aux voies légales d'un autre lieu même à titre de garantie ou de connectivité. Le Vendeur a la faculté d'avoir recours, en qualité d'acteur, à une action en justice sur le lieu de résidence du Client, en Italie ou à l'étranger. Les contestations éventuelles ne dispensent pas le client d'observer les conditions de paiement accordées et n'impliquent aucunement le prolongement des termes convenus. Les frais de contrat, son enregistrement et sa transcription éventuelle sont à la charge du Client.

### 1. PREMISAS

Los suministros incluyen solamente lo expresamente especificado al confirmar la aceptación del pedido de la Compañía Vendedora y son regulados por las presentes condiciones generales, salvo excepción resultante de un explícito acuerdo por escrito. Posibles variaciones o comunicaciones durante el transcurso del suministro no constituyen la invalidación del contrato. Los plazos de entrega convenidos tienen valor indicativo y no perentorio. En cualquier momento la ejecución del suministro podrá ser suspendida en caso de modificación de las condiciones patrimoniales del Cliente a efectos del Art. 1461 del Código Civil italiano.

### 2. PRECIOS

Los precios se suponen Franco Fábrica de la Compañía Vendedora. Los mismos no incluyen prestaciones ni cargos no mencionados. Los embalajes se consideran incluidos en el precio, salvo acuerdo contrario por escrito.

### 3. VARIACIÓN DE PRECIOS

Los precios indicados en el contrato han sido calculados según los costes del material y de la mano de obra a la fecha del contrato mismo, según el índice correspondiente de la ANIE (Asociación industrial italiana del sector eléctrico y electrónico). El cálculo del as variaciones de cualquier índole, que pudieren verificarse sobre dichos costes durante el periodo de ejecución de la venta, se efectuará según las cláusulas de variación de los precios vigentes para luminarias publicado por la ANIE.

### 4. FORMA DE PAGO

Se reconocen solamente los pagos efectuados directamente a nuestro domicilio o a nuestro personal autorizado.

### 5. RESERVA DE DOMINIO

La Compañía Vendedora mantiene la propiedad sobre los materiales hasta el pago total de estos, pero los riesgos son asumidos por parte del comprador desde el momento de la entrega. Cualquier acto del Cliente que, salvo explícito consentimiento por escrito de la compañía vendedora, afecte el derecho del Vendedor a la reventa del material, estará sujeto a las sanciones establecidas por la ley.

### 6. ENTREGA

El plazo de entrega indicado no compromete a la empresa Vendedora, la cual no está obligada a pagar indemnizaciones de ningún tipo por eventuales daños directos o indirectos como consecuencia de retrasos en la entrega o interrupción o terminación parcial o total del suministro de productos. El plazo de entrega corre desde la fecha de confirmación del pedido y en todo caso no comienza hasta la recepción de la cuota de pago en el plazo acordado. Dicho plazo se considerará automáticamente prorrogado si los pagos no se efectúan puntualmente, si el Cliente no proporciona a tiempo lo establecido en el contrato o si de todos modos surgen causas independientes de la empresa Vendedora, incluidas demoras por parte de subcontratistas.

### 7. DEVOLUCIÓN

La mercadería se puede devolver exclusivamente previa autorización de la empresa Vendedora y con una depreciación mínima del 30%.

### 8. TRANSPORTE

La mercadería viaja a riesgo y responsabilidad del Cliente incluidas las posibles roturas incluso cuando fuese enviada con porte pagado. Transcurridos ocho días de la recepción no se aceptan reclamos. Los pedidos serán despachados según la disponibilidad y los envíos pueden realizarse parcialmente.

### 9. DATOS TÉCNICOS

Los materiales suministrados, a menos que se acuerde lo contrario por escrito, corresponden a las normas vigentes del CEI - Comité Electrotécnico Italiano, donde estas sean aplicables. La empresa Vendedora se reserva el derecho de aportar en cualquier momento a sus productos aquellas modificaciones que considere técnicamente convenientes. Los diseños de la empresa Vendedora son de su absoluta propiedad y no pueden ser entregados por el Cliente a terceros ni reproducidos sin previa autorización escrita.

### 10. GARANTÍA

Ideallux garantiza sus productos por 24 meses a partir de la fecha de fabricación indicada en el producto. La garantía cubre todo defecto de fabricación sea el mismo de índole mecánica o electrónica. No están incluidos en la garantía los daños causados por manipulación y/o uso incorrectos o no conforme a lo escrito en las instrucciones de uso. La garantía queda sin efecto en el caso en que los productos fuesen alterados y/o modificados. El producto defectuoso por el cual se solicita la intervención de la garantía, puede ser reparado o sustituido con un artículo complementario nuevo o recondicionado a criterio indiscutible de Ideallux. Los productos que llevan la marca "5 years warranty" están cubiertos por 5 años de garantía considerando 14h/día por 365 días anuales, respetando la vida útil indicada en la ficha del producto. Los reclamos para aplicación de la garantía dentro de los 5 años de la fecha de fabricación (excepto aquellos recibidos antes de los términos legislativos ya indicados) serán sometidos a la aprobación de Ideallux. Aquellos defectuosos que se consideren dentro de la defectuosidad fisiológicamente declarada y en todo caso dentro del 5% del total de los artículos instalados no están cubiertos por la garantía de 5 años. Los plazos y las condiciones generales de garantía están disponibles y pueden ser requeridos a la sede de Ideallux.

### 11. CONTROVERSIAS

Los contratos, incluso cuando fueren celebrados con ciudadanos extranjeros o para materiales vendidos al exterior, son regulados por la legislación italiana vigente. El Foro competente será exclusivamente el que tenga jurisdicción en la sede legal de la empresa Vendedora no obstante lo dispuesto por el Art. 32 y siguientes del Código de Procedimiento Civil italiano, excluida para el Cliente la posibilidad de recurrir a la Autoridad Judicial de otro lugar, incluso como garantía o en relación con la causa, pero sin perjuicio de la facultad de la empresa Vendedora de interponer una acción al Cliente, en calidad de demandante, en el lugar de residencia, en Italia o al exterior. Las eventuales disputas no eximirán al Cliente de respetar las condiciones de pago pactadas y no implican ninguna prolongación de los plazos convenidos. Los gastos de contrato, su registro y la eventual transcripción quedan a cargo del Cliente.

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**GRUPPO RAINA**  
ITALIANA RETAIL



**IDEALLUX®**

GRUPPO **ORAINA**

Via Casinghino, 11  
27024 Cilavegna (PV) | Italy

Tel. +39 0381 969814  
Fax +39 0381 669709

[grupporaina@ideallux.it](mailto:grupporaina@ideallux.it)  
[www.grupporaina.it](http://www.grupporaina.it)

GRUPPO  **RAINA**  
L'unione fa la luce.



**IDEALLUX®**

*Lookup*

**COLOMBO**

**ITALIANARETAIL**

# GRUPPO RAINA

L'unione fa la luce.



Il Gruppo Raina è il brand che raggruppa sotto lo stesso nome i marchi: IDEALLUX® produzione storica specializzata nella realizzazione e vendita di apparecchi destinati ai settori dell'industria e del terziario. LOOKUP con la sua nuova e ampia gamma di apparecchi decorativi e architettonici. COLOMBO marchio specifico per gli apparecchi stradali, arredo urbano e da esterno. Italiana Retail nasce per garantire la corretta illuminazione di shop e store, oltre al residenziale.

*GRUPPO RAINA is the brand that brings together under the same name: IDEALLUX® historical production specialized in the production and sale of fittings for industry and tertiary. COLOMBO brand specific for street and outdoor fixtures. LOOKUP® with its wide and new range of decorative lighting fittings.*

*Gruppo Raina est une identité qui regroupe sous le même nom les marques: IDEALLUX® production historique spécialisée dans la réalisation et la vente d'appareils d'éclairage destinés au secteur de l'industrie et du tertiaire. LOOKUP avec sa nouvelle gamme complète d'appareils décoratifs et architecturaux. COLOMBO marque spécifique pour l'éclairage publique et extérieur. Italiana Retail créée pour garantir la qualité d'éclairage pour le secteur Retail et résidentiel.*

*GRUPPO RAINA is the brand that brings together under the same name: IDEALLUX® historical production specialized in the production and sale of fittings for industry and tertiary. COLOMBO brand specific for street and outdoor fixtures. LOOKUP® with its wide and new range of decorative lighting fittings.*



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*TRACK PROJECTORS / PROJECTEUR SUR RAIL / PROYECTOR DE CARRIL*

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MINI ALGEBRA

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*RECESSED DOWNLIGHTS / APPAREILS ENCASTRÉS LED / LUMINARIAS LED DE EMPOTRAR*

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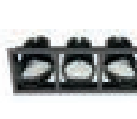
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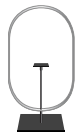


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# Si parla di luce.

*We talk about light.*

*On parle de lumière.*

*Se habla de luz.*





Il gruppo ha come mission la progettazione e la produzione di sistemi di illuminazione, caratterizzati da un'elevata tecnologia e da un ottimo rendimento, totalmente realizzati nello stabilimento di Cilavegna, in Provincia di Pavia e certificati 100% Made in Italy. Gruppo Raina vanta tra le certificazioni ottenute la certificazione ISO 9001:2008 e la certificazione 100% Made in Italy rilasciata dall'Istituto Per la Tutela dei Produttori Italiani. I numeri del gruppo riassumono le capacità dello stesso, con i suoi 12.000 mq di stabilimento produttivo, 7.000 mq di magazzino, 100 risorse impiegate e oltre 3.800 clienti attivi.

*The group's mission is the design and production of lighting systems characterized from high technology and very good performance, totally made at the Cilavegna plant in the Province of Pavia and certified 100% Made in Italy. The Gruppo Raina obtained the Certification ISO 9001: 2008 and the 100% Made in Italy Certification issued by the Institute for the Protection of Italian Manufacturers. The numbers of the group can explain the capacity of it: 12.000 square meters of production plant, 7.000 sqm of warehouse, 100 resources employed and more than 3.800 active customers.*

*Le groupe a comme mission la conception et la production de systèmes d'éclairage de haute technologie avec de belles performances, le tout est réalisé dans l'usine de Cilavegna, dans la province de Pavie. La certification ISO 9001 et la certification 100% Made in Italie ont été délivrés par l'Institut de protection des fabricants italiens. Les nombres : 12.000 m² de production, 7.000 m² d'entrepôt, 100 employés et 3.800 clients actifs.*

*El grupo tiene como misión el diseño y producción de sistemas de iluminación, fabricados en la planta de Cilavegna, en la provincia de Pavia. Las certificaciones ISO 9001 y 100% Made in Italy fueron emitidas por el Instituto para la Protección de Fabricantes Italianos. Los números : 12.000 mq de planta de producción, 7.000 mq de almacén, 100 empleados, 3.800 clientes activos.*



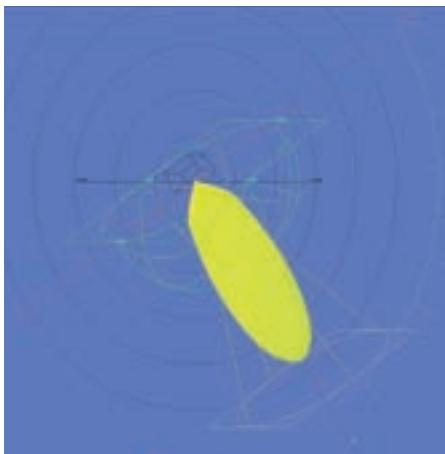
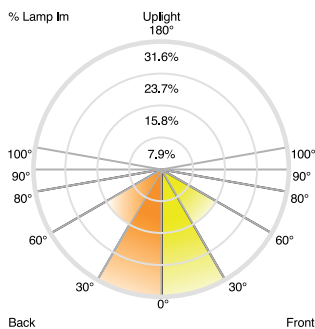


In un progetto la fase di acquisizione dei dati, delle necessità e dei gusti del mercato diventa essenziale per la corretta messa a fuoco dell'intero processo ideativo. La struttura tecnica di GRUPPO RAINA, vasta e integrata nelle sue funzioni e competenze, garantisce l'ottimizzazione del processo progettuale: dalla valutazione del costo industriale alla qualità globale del prodotto. Tutti i processi inerenti alla progettazione vengono gestiti all'interno dell'azienda. La progettazione viene realizzata da personale altamente qualificato che, attraverso l'utilizzo di software avanzati, sviluppa, analizza e progetta il prodotto in tutte le sue parti. La realizzazione di un prototipo, testato nel laboratorio fotometrico, è la parte conclusiva di questo processo. GRUPPO RAINA è specializzata nella creazione di apparecchi CUSTOM proprio grazie alla capacità di adattare il prodotto alle esigenze del cliente.

*The data acquisition, market's needs and demands are essential for the proper focus of the idea and development of the project. The wide technical GRUPPO RAINA structure with its many functions and skills, guarantees the optimization of product design process: starting from the industrial cost evaluation to the overall quality of the product. All the different steps of the design project are managed within the company. Through use of advanced software, the highly qualified staff develops, analyzes and designs the product in all its parts. This design process ends with the production of a prototype, tested in the internal photometric laboratory. Thanks to its ability to adapt the product to customer requirements, GRUPPO RAINA is specialized in the creation of "CUSTOM MADE PRODUCTS".*

*Dans un projet il est essentiel de connaître les besoins et les goûts du marché afin de développer au mieux le projet. GRUPPO RAINA possède une structure technique et des compétences qui vont lui permettre d'optimiser le processus d'élaboration : de l'évaluation du coût industriel à la qualité globale du produit. La conception du projet est entièrement réalisée dans l'entreprise par du personnel hautement qualifié qui, grâce à l'utilisation de logiciels performants, vont développer, analyser et réaliser entièrement le produit. La dernière étape est la réalisation du prototype, testé en laboratoire photométrique. GRUPPO RAINA est spécialisé dans la création d'appareils CUSTOM grâce à ses capacités d'adapter le produit aux exigences du client.*

*En un proyecto la fase de adquisición de datos, de necesidades y de gustos del mercado se vuelve esencial para el correcto enfoque de todo el proceso creativo. La estructura técnica de GRUPPO RAINA, vasta e integrada en sus funciones y competencias, garantiza la optimización del proceso de diseño: desde la evaluación del coste industrial a la calidad global del producto. Todos los procesos inherentes al diseño se gestionan en el interior de la empresa con personal altamente cualificado que mediante el uso de programas informáticos avanzados, desarrolla, analiza y diseña el producto en su total concepción. La realización del prototipo, probado en el laboratorio fotométrico, es la parte final de este proceso. GRUPPO RAINA se especializa en la creación de luminarias personalizadas gracias a la capacidad de adaptar el producto a las exigencias del cliente.*



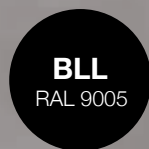
MADE IN ITALY





**WI**  
RAL 9016

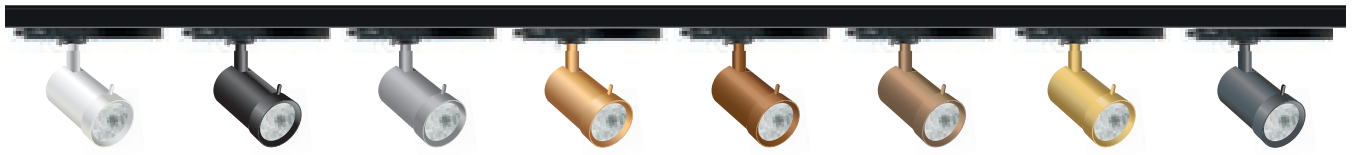
White Irazu



**BLL**  
RAL 9005

Black Lava

----- STANDARD -----



Silver Bombalai



Bronze Iario



Rust Rame



Beige Futura



Gold Karkar



Blue Telica

ON REQUEST

TREDICI48

BEBA S

LERICA S

KAOMI S/10

KAOMI S/3

MOMI S/10

MOMI S/3

SNOPI S/10

SNOPI S/3

MUSE 80 S/10

MUSE 80 S/3

VALE S

Proiettori LED per il retail con alimentatore integrato a binario.  
Performance illuminotecniche nettamente superiori all'attuale generazione di lampade LED.

*LED projectors for retail with built-in driver in the track.  
Lighting performance definitely higher compared to the others LED fixtures in the market nowadays.*

*Projecteur LED pour le secteur retail avec faisceau ajustable.  
Performance d'éclairage nettement supérieure à celle des autres appareils LED existants sur le marché.*

*Projector Led para el Retail con haz regulable.  
Rendimiento de iluminación mejor que los otros dispositivos LED del mercado actual.*

## PROIETTORI A BINARIO

TRACK PROJECTORS  
PROJECTEUR SUR RAIL  
PROYECTOR DE CARRIL





## TREDICI48

---

Proiettori LED per il retail con fascio regolabile.  
Performance illuminotecniche nettamente superiori all'attuale  
generazione di lampade LED.

*LED projectors for retail with adjustable beam.  
Lighting performance definitely higher compared to the other  
LED fixtures in the market nowadays.*

*Projecteur LED pour le secteur retail avec faisceau ajustable.  
Performance d'éclairage nettement supérieure à celle des  
autres appareils LED existants sur le marché.*

*Proyector Led para el Retail con haz regulable.  
Rendimiento de iluminación mejor que los otros dispositivos LED  
del mercado actual.*

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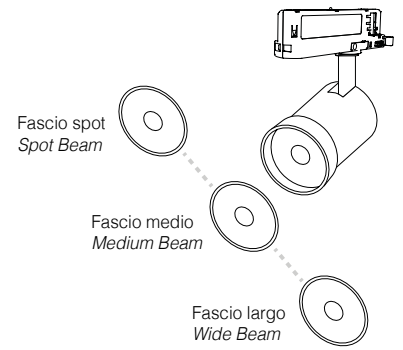
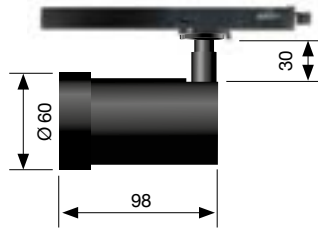
### PROIETTORI A BINARIO

*TRACK PROJECTORS  
PROJECTEUR SUR RAIL  
PROYECTOR DE CARRIL*





**SPOT** 13,5° <<< — — — — — — — — — — >>> **WIDE** 48°



# TREDICI48

## FASCIO REGOLABILE/ADJUSTABLE BEAM FAISCEAU REGLABLE/HAZ AJUSTABLE

Proiettore LED a binario orientabile con fascio regolabile.  
Adjustable track-mounted LED projector with adjustable beam.  
Projecteur LED orientable sur rail avec faisceau réglable.  
Proyector Led orientable de carril con haz regulable.

Corpo in estruso d'alluminio lavorato dal pieno con funzione di dissipatore verniciato con polveri epossidiche previa fosfatazione. Ottica lenticolare regolabile da 13,5° a 48°. Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con alimentazione integrata nell'adattatore ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Extruded aluminium body machined from solid, with heatsink function, painted with epoxy powders after phosphating. Lenticular optic adjustable beam from 13,5° to 48°. LED light source. Direct light emission. Track mounting system with built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium extrudé réalisé par usinage lui donnant la propriété de dissipateur, avec traitement époxy. Optique lenticulaire réglable de 13,5° à 48°. Source lumineuse LED. Emission directe. Système de fixation sur rail avec alimentation ON/OFF intégrée à l'adaptateur. Sur demande: dimmable DALI (réf. DL).

Cuerpo de aluminio extruido mecanizado a partir de sólido con función de disipador y recubierto con polvo epoxi previamente fosfatado. Óptica lenticular ajustable desde 13,5° hasta 48°. Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril con alimentación ON/OFF integrada en el adaptador. A pedido: regulación DALI (cód. DL).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1100	9	≤ 122	250	<b>HRTR481</b>	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	Regolabile da 13,5° a 48°	-: ON/OFF  <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
1550	13	≤ 119	350	<b>HRTR482</b>		Adjustable from 13,5° to 48°		
2150	18,5	≤ 116	500	<b>HRTR483</b>				
2950	26	≤ 114	700	<b>HRTR484</b>				

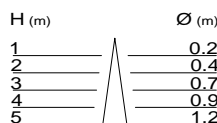
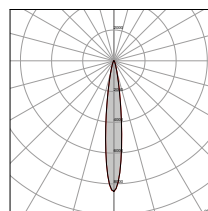


A richiesta | On request

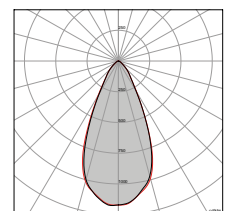
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

Ottica SP 13,5°



Ottica LA 48°





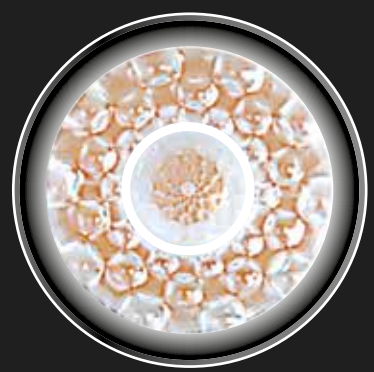
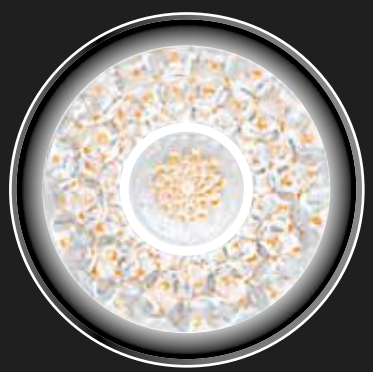
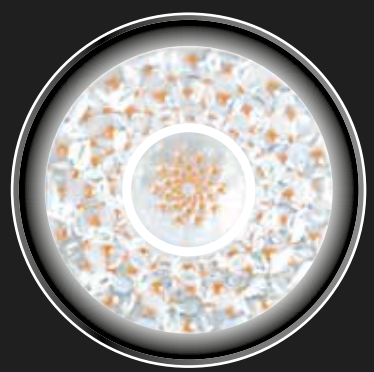
13,5°  
**FASCIO SPOT**  
*SPOT BEAM*



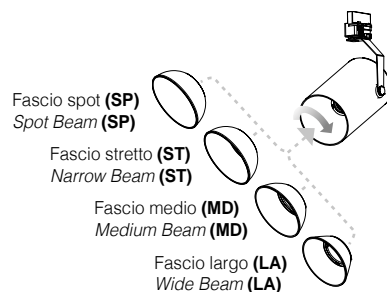
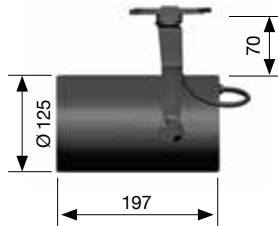
34°  
**FASCIO MEDIO**  
*MEDIUM BEAM*



48°  
**FASCIO LARGO**  
*WIDE BEAM*







Nota/Note  
 Ottiche intercambiabili senza ausilio di utensili  
 Exchangeable optics without using of tools

# BEBA S

FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.  
 Projecteur LED orientable sur rail avec optiques échangeables.  
 Proyector LED orientable de carril con ópticas intercambiables.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con alimentazione integrata nell'adattatore ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Extruded aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Track mounting system with built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium extrudé avec traitement époxy. Dissipateur en aluminium extrudé. Optique en polycarbonate métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Système de fixation sur rail avec alimentation ON/OFF intégrée. Sur demande: dimmable DALI (réf. DL).

Cuerpo de aluminio extruido recubierto con polvo epoxi previamente fosfatado. Dissipador de aluminio extruido. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril con alimentación ON/OFF integrada. A pedido: regulación DALI (cód. DL).

5Y WARRANTY 5% FAILURE RATE | 60.000 h LED LIFETIME L90B10 | 100.000 h LED LIFETIME L70B50 | RIPPLE FREE

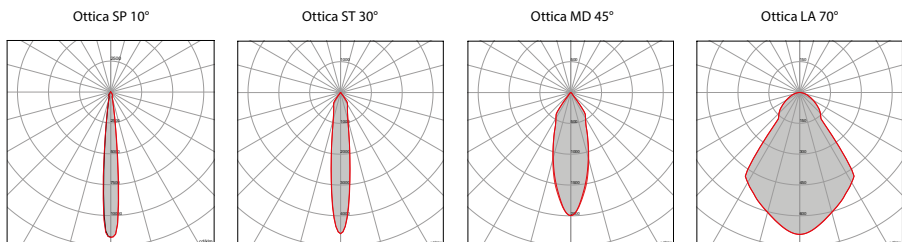
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2950	26	≤ 114	700	HRBAS1	WW: 2700 W: 3000 X: 3500 N: 4000	SP: fascio spot spot beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● WI: White Irazu ● BLL: Black Lava  <b>Su richiesta /On request:</b> ● SB: Silver Bombalai ● BL: Bronze Lario ● RR: Rust Rame ● BF: Beige Futura ● GK: Gold Karkar ● BT: Blue Telica
3350	30	≤ 112	800	HRBAS2		ST: fascio stretto narrow beam		
3800	34	≤ 111	900	HRBAS3		MD: fascio medio medium beam		
4240	40	≤ 106	1050	HRBAS4		LA: fascio largo wide beam		
4480	39	≤ 115	1050	HRBAS5				

CE | Recycled | >90 CRI | 3SDCM | IP44 | IK 07 | 230 V | 50/60 Hz | 850° | DALI | RG 0 | DALI | DIM W | >80 CRI | >95 CRI | VIVID PLUS | VEG PLUS | WHITE PLUS | MEAT PLUS

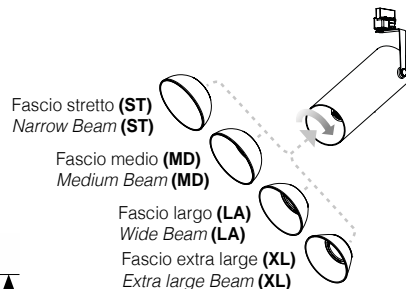
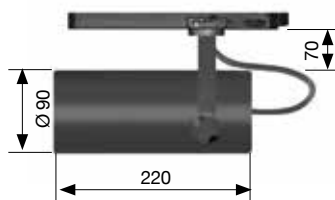
A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.2	1	0.5	1	0.8	1	1.4
2	0.3	2	1.0	2	1.6	2	2.8
3	0.5	3	1.6	3	2.5	3	4.2
4	0.7	4	2.1	4	3.3	4	5.6
5	0.8	5	2.7	5	4.2	5	7.0



Nota/Note  
 Ottiche intercambiabili senza ausilio di utensili  
 Exchangeable optics without using of tools

# LERICA S

FASCIO/BEAM/FAISCEAU/HAZ ST | MD | LA | XL

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.  
 Projecteur LED orientable sur rail avec optiques échangeables.  
 Projector LED orientable de carril con ópticas intercambiables.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio extra largo (cod. XL) fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con alimentazione integrata nell'adattatore ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Extruded aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Metallized polycarbonate louver extra large beam (cod. XL) wide beam (code LA) medium beam (code MD) narrow beam (code ST). LED light source. Direct light emission. Track mounting system with built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium extrudé avec traitement époxy. Dissipateur en aluminium extrudé. Optique en polycarbonate métallisé à faisceau extra large (réf. XL) faisceau large (réf. LA) faisceau medium (réf. MD) faisceau étroit (réf. ST). Source lumineuse LED. Emission directe. Système de fixation sur rail avec alimentation ON/OFF intégrée à l'adaptateur. Sur demande: dimmable DALI (réf. DL).

Cuerpo de aluminio extruido recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica de policarbonato metalizado de haz extra amplio (cód. XL) haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril con alimentación integrada en el adaptador ON/OFF. A pedido: regulación DALI (cód. DL).



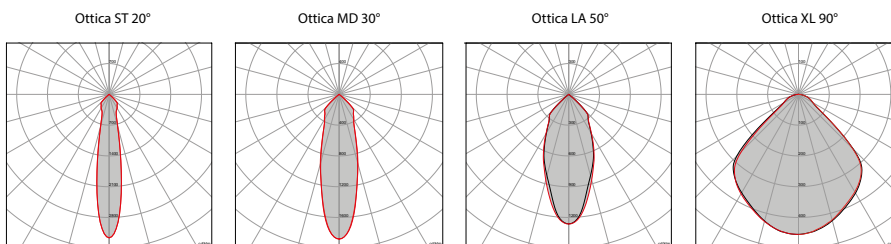
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2150	18	≤ 120	500	<b>HRLAS1</b>	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	<b>ST:</b> fascio stretto <i>narrow beam</i>  <b>MD:</b> fascio medio <i>medium beam</i>  <b>LA:</b> fascio largo <i>wide beam</i>  <b>XL:</b> fascio extra largo <i>extra large beam</i>	-: ON/OFF  <b>DL:</b> DALI	<b>Standard:</b> ● <b>WL:</b> White Irazu ● <b>BLL:</b> Black Lava  <b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
2950	26	≤ 114	700	<b>HRLAS2</b>				
3350	30	≤ 112	800	<b>HRLAS3</b>				



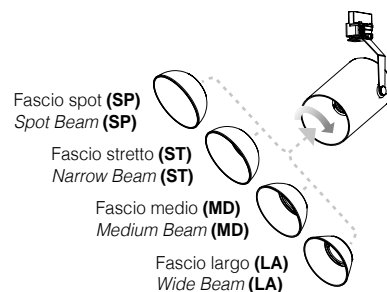
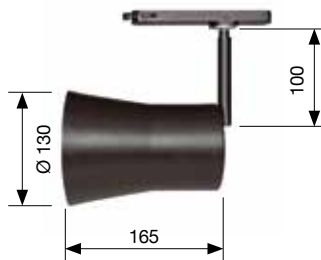
A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.5	1	0.9	1	2.0
2	0.7	2	1.0	2	1.9	2	4.0
3	1.0	3	1.6	3	2.8	3	6.0
4	1.4	4	2.1	4	3.7	4	8.0
5	1.7	5	2.7	5	4.7	5	10



Nota/Note  
 Ottiche intercambiabili senza ausilio di utensili  
 Exchangeable optics without using of tools

# KAOMI S/10

FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.  
 Projecteur LED orientable sur rail avec optiques échangeables.  
 Projector LED orientable de carril con ópticas intercambiables.

Corpo in alluminio tornito verniciato con polveri epossidiche previa fosfatizzazione. Dissipatore in alluminio estruso. Ottica in alluminio metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con alimentazione integrata nell'adattatore ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Turned aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Metallized aluminium louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Track mounting system with built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium tournée avec traitement époxy. Dissipateur en aluminium extrudé. Optique en aluminium métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Système de fixation sur rail avec alimentation intégrée dans l'adaptateur ON/OFF. Sur demande: dimmable DALI (réf. DL).

Cuerpo en aluminio torneado y recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica de aluminio metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril con alimentación integrada en el adaptador ON/OFF. A pedido: regulación DALI (cód. DL).



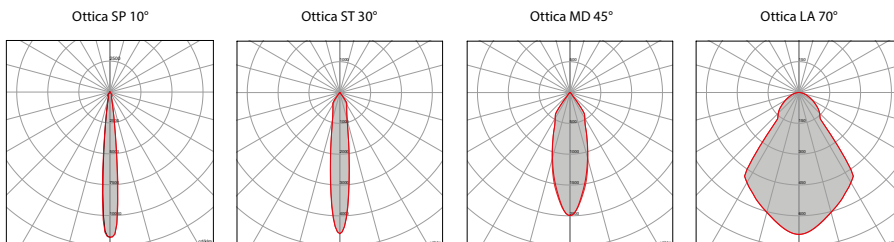
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2950	26	≤ 114	700	HRKA11	WW: 2700 W: 3000 X: 3500 N: 4000	SP: fascio spot spot beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● WI: White Irazu ● BLL: Black Lava <b>Su richiesta /On request:</b> ● SB: Silver Bombalai ● BL: Bronze Lario ● RR: Rust Rame ● BF: Beige Futura ● GK: Gold Karkar ● BT: Blue Telica
3350	30	≤ 112	800	HRKA12		ST: fascio stretto narrow beam		
3800	34	≤ 111	900	HRKA13		MD: fascio medio medium beam		
4240	40	≤ 106	1050	HRKA14		LA: fascio largo wide beam		
4480	39	≤ 115	1050	HRKA15				



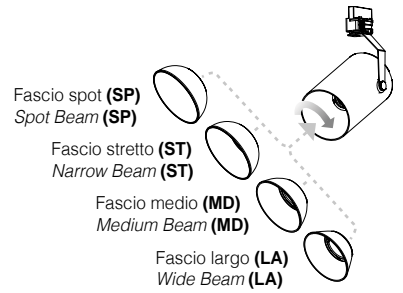
A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.2	1	0.5	1	0.8	1	1.4
2	0.3	2	1.0	2	1.6	2	2.8
3	0.5	3	1.6	3	2.5	3	4.2
4	0.7	4	2.1	4	3.3	4	5.6
5	0.8	5	2.7	5	4.2	5	7.0



Nota/Note  
 Ottiche intercambiabili senza ausilio di utensili  
 Exchangeable optics without using of tools

# KAOMI S/3

FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.  
 Projecteur LED orientable sur rail avec optiques échangeables.  
 Projector LED orientable de carril con ópticas intercambiables.

Corpo in alluminio tornito verniciato con polveri epossidiche previa fosfatizzazione. Dissipatore in alluminio estruso. Ottica in alluminio metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con alimentazione integrata nell'adattatore ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Turned aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Metallized aluminium louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Track mounting system with built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium tournée avec traitement époxy. Dissipateur en aluminium extrudé. Optique en aluminium métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Système de fixation sur rail avec alimentation intégrée dans l'adaptateur ON/OFF. Sur demande: dimmable DALI (réf. DL).

Cuerpo en aluminio torneado y recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica de aluminio metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril con alimentación integrada en el adaptador ON/OFF. A pedido: regulación DALI (cód. DL).

5Y WARRANTY 5% FAILURE RATE | 60,000 h LED LIFETIME L90B10 | 100,000 h LED LIFETIME L70B50 | RIPPLE FREE

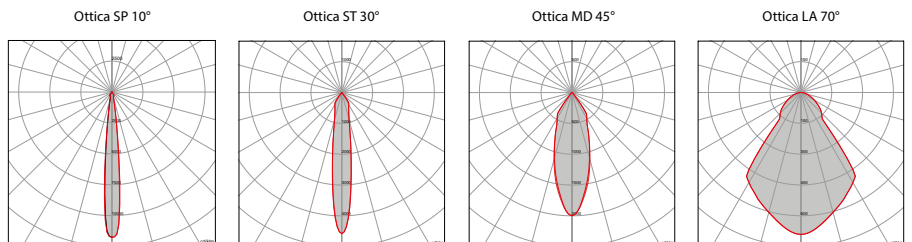
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2950	26	≤ 114	700	HRKA31	WW: 2700 W:3000 X:3500 N:4000	SP: fascio spot spot beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
3350	30	≤ 112	800	HRKA32		ST: fascio stretto narrow beam		
3800	34	≤ 111	900	HRKA33		MD: fascio medio medium beam		
4240	40	≤ 106	1050	HRKA34		LA: fascio largo wide beam		
4480	39	≤ 115	1050	HRKA35				

CE | Recycled | >90 CRI | 3SDCM | IP44 EN 60529 | IK 07 EN 60068 | 230 V 2014/251/E | 50/60 Hz | 850° EN 60995 | DALI DIM W | >80 CRI | >95 CRI | VIVID PLUS | VEG PLUS | WHITE PLUS | MEAT PLUS

A richiesta | On request

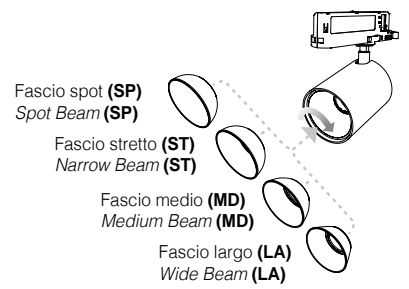
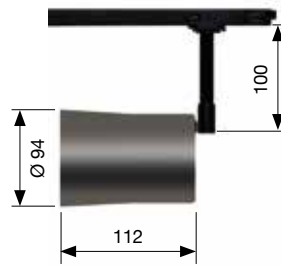
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.2	1	0.5	1	0.8	1	1.4
2	0.3	2	1.0	2	1.6	2	2.8
3	0.5	3	1.6	3	2.5	3	4.2
4	0.7	4	2.1	4	3.3	4	5.6
5	0.8	5	2.7	5	4.2	5	7.0





Nota/Note  
 Ottiche intercambiabili senza ausilio di utensili  
 Exchangeable optics without using of tools

# MOMI S/10

FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.  
 Projecteur LED orientable sur rail avec optiques échangeables.  
 Proyector LED orientable de carril con ópticas intercambiables.

Corpo in alluminio tornito verniciato con polveri epossidiche previa fosfatizzazione. Dissipatore in alluminio estruso. Ottica in alluminio metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con alimentazione integrata nell'adattatore ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Turned aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Metallized aluminium louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Track mounting system with built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium tournée avec traitement époxy. Dissipateur en aluminium extrudé. Optique en aluminium métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Système de fixation sur rail avec alimentation intégrée dans l'adaptateur ON/OFF. Sur demande: dimmable DALI (réf. DL).

Cuerpo en aluminio torneado y recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Optica de aluminio metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril con alimentación integrada en el adaptador ON/OFF. A pedido: regulación DALI (cód. DL).



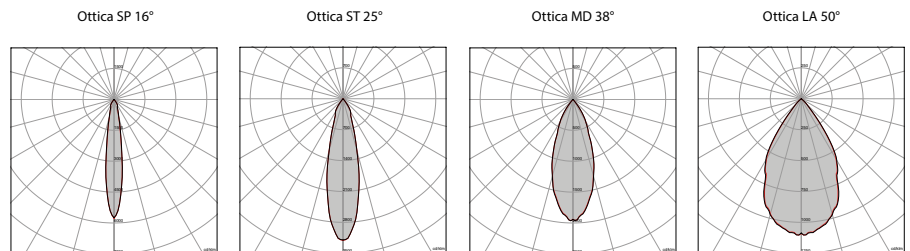
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2340	18	≤ 130	500	HRMO11	<b>WW: 2700</b> <b>W:3000</b> <b>X:3500</b> <b>N:4000</b>	<b>SP:</b> fascio spot <i>spot beam</i> <b>ST:</b> fascio stretto <i>narrow beam</i> <b>MD:</b> fascio medio <i>medium beam</i> <b>LA:</b> fascio largo <i>wide beam</i>	-: ON/OFF  DL: DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
2760	22	≤ 126	600	HRMO12				
3080	25,5	≤ 121	700	HRMO13				
3770	33	≤ 114	900	HRMO14				



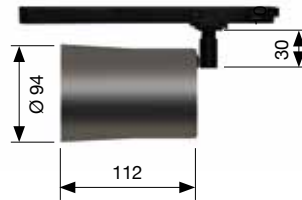
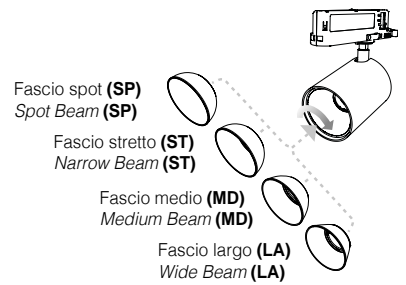
A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	0.7	1	1.1
2	0.5	2	0.9	2	1.5	2	2.3
3	1.7	3	1.3	3	2.2	3	3.5
4	1.0	4	1.8	4	2.9	4	4.6
5	1.2	5	2.2	5	3.6	5	5.8



Nota/Note  
 Ottiche intercambiabili senza ausilio di utensili  
 Exchangeable optics without using of tools

# MOMI S/3

FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.  
 Projecteur LED orientable sur rail avec optiques échangeables.  
 Proyector LED orientable de carril con ópticas intercambiables.

Corpo in alluminio tornito verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in alluminio metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con alimentazione integrata nell'adattatore ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Turned aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Metallized aluminium louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Track mounting system with built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium tournée avec traitement époxy. Dissipateur en aluminium extrudé. Optique en aluminium métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Système de fixation sur rail avec alimentation intégrée dans l'adaptateur ON/OFF. Sur demande: dimmable DALI (réf. DL).

Cuerpo en aluminio torneado y recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica de aluminio metallizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril con alimentación integrada en el adaptador ON/OFF. A pedido: regulación DALI (cód. DL).

5Y WARRANTY 5% FAILURE RATE | 60.000 h LED LIFETIME L90B10 | 100.000 h LED LIFETIME L70B50 | RIPPLE FREE

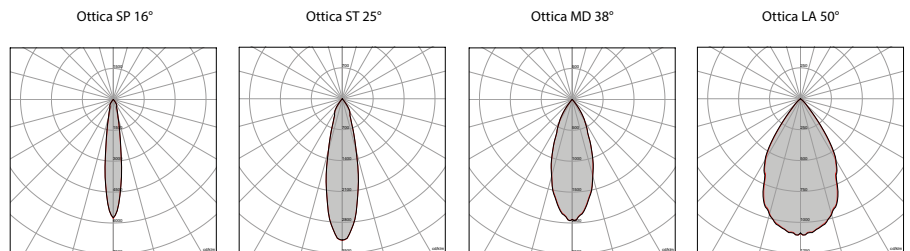
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2340	18	≤ 130	500	HRMO31	WW: 2700 W:3000 X:3500 N:4000	SP: fascio spot spot beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
2760	22	≤ 126	600	HRMO32		ST: fascio stretto narrow beam		
3080	25,5	≤ 121	700	HRMO33		MD: fascio medio medium beam		
3770	33	≤ 114	900	HRMO34		LA: fascio largo wide beam		

CE | DALI | DIM W | >80 CRI | >95 CRI | VIVID PLUS | VEG PLUS | WHITE PLUS | MEAT PLUS

A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%



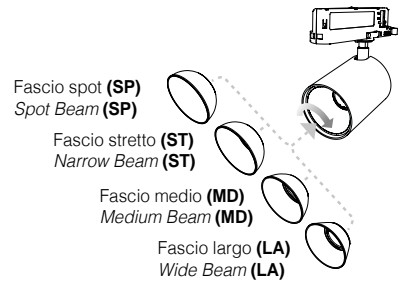
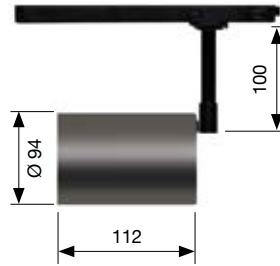
H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	0.7	1	1.1
2	0.5	2	0.9	2	1.5	2	2.3
3	1.7	3	1.3	3	2.2	3	3.5
4	1.0	4	1.8	4	2.9	4	4.6
5	1.2	5	2.2	5	3.6	5	5.8

DOUGLAS

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Nota/Note  
 Ottiche intercambiabili senza ausilio di utensili  
 Exchangeable optics without using of tools

# SNOPI S/10

FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.  
 Projecteur LED orientable sur rail avec optiques échangeables.  
 Projector LED orientable de carril con ópticas intercambiables.

Corpo in alluminio tornito verniciato con polveri epossidiche previa fosfatizzazione. Dissipatore in alluminio estruso. Ottica in alluminio metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con alimentazione integrata nell'adattatore ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Turned aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Metallized aluminium louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Track mounting system with built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium tournée avec traitement époxy. Dissipateur en aluminium extrudé. Optique en aluminium métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Système de fixation sur rail avec alimentation intégrée dans l'adaptateur ON/OFF. Sur demande: dimmable DALI (réf. DL).

Cuerpo en aluminio torneado y recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica de aluminio metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril con alimentación integrada en el adaptador ON/OFF. A pedido: regulación DALI (cód. DL).

5Y WARRANTY 5% FAILURE RATE | 60,000 h LED LIFETIME L90B10 | 100,000 h LED LIFETIME L70B50 | RIPPLE FREE

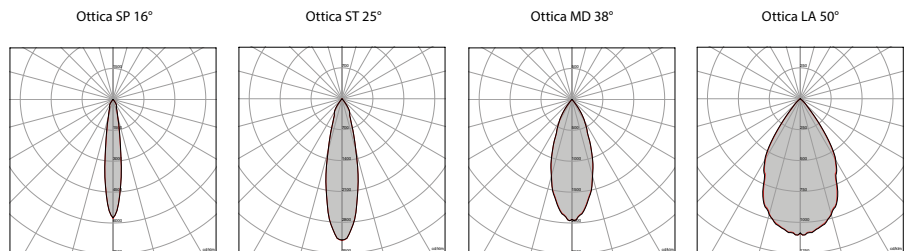
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2340	18	≤ 130	500	HRSN11	WW: 2700 W:3000 X:3500 N:4000	SP: fascio spot spot beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
2760	22	≤ 126	600	HRSN12		ST: fascio stretto narrow beam		
3080	25,5	≤ 121	700	HRSN13		MD: fascio medio medium beam		
3770	33	≤ 114	900	HRSN14		LA: fascio largo wide beam		

CE | Recycled | >90 CRI | 3SDCM | IP40 EN 60529 | IK 07 EN 60068 | 230 V 2014/25/UE | 50/60 Hz | 850° EN 60995 | DALI DIM W | >80 CRI | >95 CRI | VIVID PLUS | VEG PLUS | WHITE PLUS | MEAT PLUS

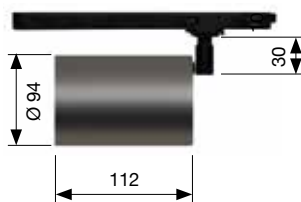
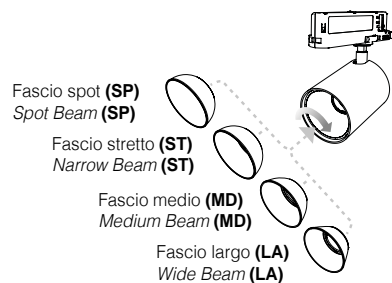
A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	0.7	1	1.1
2	0.5	2	0.9	2	1.5	2	2.3
3	1.7	3	1.3	3	2.2	3	3.5
4	1.0	4	1.8	4	2.9	4	4.6
5	1.2	5	2.2	5	3.6	5	5.8



Nota/Note  
Ottiche intercambiabili senza ausilio di utensili  
Exchangeable optics without using of tools

# SNOPI S/3

FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
Adjustable track-mounted LED projector, exchangeable optics.  
Projecteur LED orientable sur rail avec optiques échangeables.  
Proyector LED orientable de carril con ópticas intercambiables.

Corpo in alluminio tornito verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in alluminio metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con alimentazione integrata nell'adattatore ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Turned aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Metallized aluminium louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Track mounting system with built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium tournée avec traitement époxy. Dissipateur en aluminium extrudé. Optique en aluminium métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Système de fixation sur rail avec alimentation intégrée dans l'adaptateur ON/OFF. Sur demande: dimmable DALI (réf. DL).

Cuerpo en aluminio torneado y recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica de aluminio metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril con alimentación integrada en el adaptador ON/OFF. A pedido: regulación DALI (cód. DL).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2340	18	≤ 130	500	HRSN31	WW: 2700 W:3000 X:3500 N:4000	SP: fascio spot spot beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
2760	22	≤ 126	600	HRSN32		ST: fascio stretto narrow beam		
3080	25,5	≤ 121	700	HRSN33		MD: fascio medio medium beam		
3770	33	≤ 114	900	HRSN34		LA: fascio largo wide beam		



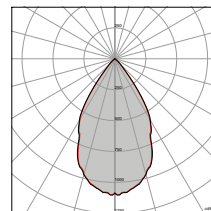
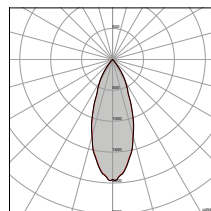
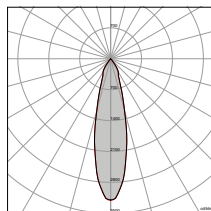
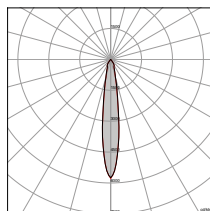
A richiesta | On request

Ottica SP 16°

Ottica ST 25°

Ottica MD 38°

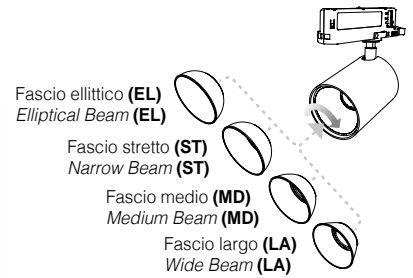
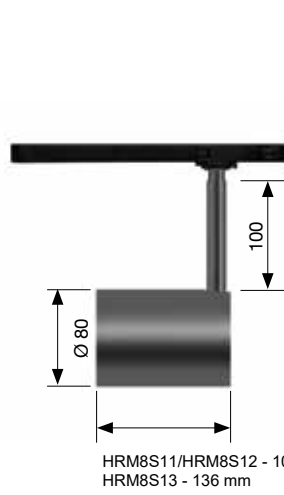
Ottica LA 50°



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	0.7	1	1.1
2	0.5	2	0.9	2	1.5	2	2.3
3	1.7	3	1.3	3	2.2	3	3.5
4	1.0	4	1.8	4	2.9	4	4.6
5	1.2	5	2.2	5	3.6	5	5.8

Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90.  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90.  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%



Nota/Note  
Ottiche intercambiabili senza ausilio di utensili  
Exchangeable optics without using of tools

# MUSE 80 S/10

FASCIO/BEAM/FAISCEAU/HAZ EL | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
Adjustable track-mounted LED projector, exchangeable optics.  
Projecteur LED orientable sur rail avec optiques échangeables.  
Proyector LED orientable de carril con ópticas intercambiables.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio ellittico (cod. EL). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con alimentazione integrata nell'adattatore ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Extruded aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) elliptical beam (code EL). LED light source. Direct light emission. Track mounting system with built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium extrudé avec traitement époxy. Dissipateur en aluminium extrudé. Optique en polycarbonate métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau elliptique (réf. EL). Source lumineuse LED. Emission directe. Système de fixation sur rail avec alimentation intégrée à l'adaptateur ON/OFF. Sur demande: dimmable DALI (réf. DL).

Cuerpo de aluminio extruido recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz elíptico (cód. EL). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril con alimentación integrada en el adaptador ON/OFF. A pedido: regulación DALI (cód. DL).



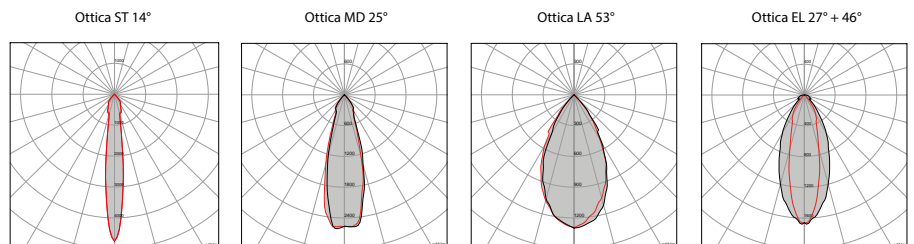
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2150	18	≤ 120	500	<b>HRM8S11</b>	<b>WW: 2700</b> <b>W:3000</b> <b>X:3500</b> <b>N:4000</b>	<b>EL:</b> fascio ellittico <i>elliptical beam</i> <b>ST:</b> fascio stretto <i>narrow beam</i> <b>MD:</b> fascio medio <i>medium beam</i> <b>LA:</b> fascio largo <i>wide beam</i>	-: ON/OFF  <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
2950	26	≤ 114	700	<b>HRM8S12</b>				
3350	30	≤ 112	800	<b>HRM8S13</b>				



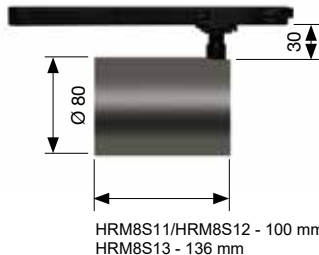
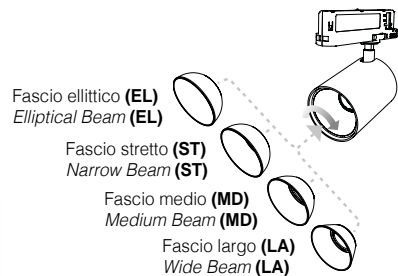
A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	1.0	1	0.8
2	0.5	2	0.9	2	2.0	2	1.6
3	1.7	3	1.3	3	2.8	3	2.5
4	1.0	4	1.8	4	4.0	4	3.3
5	1.2	5	2.2	5	5.0	5	4.2



Nota/Note  
Ottiche intercambiabili senza ausilio di utensili  
Exchangeable optics without using of tools

# MUSE 80 S/3

FASCIO/BEAM/FAISCEAU/HAZ EL | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
Adjustable track-mounted LED projector, exchangeable optics.  
Projecteur LED orientable sur rail avec optiques échangeables.  
Projector LED orientable de carril con ópticas intercambiables.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio ellittico (cod. EL). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con alimentazione integrata nell'adattatore ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Extruded aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) elliptical beam (code EL). LED light source. Direct light emission. Track mounting system with built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium extrudé avec traitement époxy. Dissipateur en aluminium extrudé. Optique en polycarbonate métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau elliptique (réf. EL). Source lumineuse LED. Emission directe. Système de fixation sur rail avec alimentation intégrée à l'adaptateur ON/OFF. Sur demande: dimmable DALI (réf. DL).

Cuerpo de aluminio extruido recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz elíptico (cód. EL). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril con alimentación integrada en el adaptador ON/OFF. A pedido: regulación DALI (cód. DL).



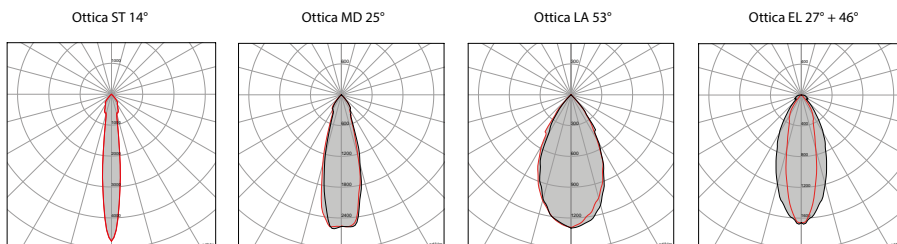
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2150	18	≤ 120	500	<b>HRM8S31</b>	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	<b>EL:</b> fascio ellittico <i>elliptical beam</i> <b>ST:</b> fascio stretto <i>narrow beam</i> <b>MD:</b> fascio medio <i>medium beam</i> <b>LA:</b> fascio largo <i>wide beam</i>	-: ON/OFF <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
2950	26	≤ 114	700	<b>HRM8S32</b>				
3350	30	≤ 112	800	<b>HRM8S33</b>				



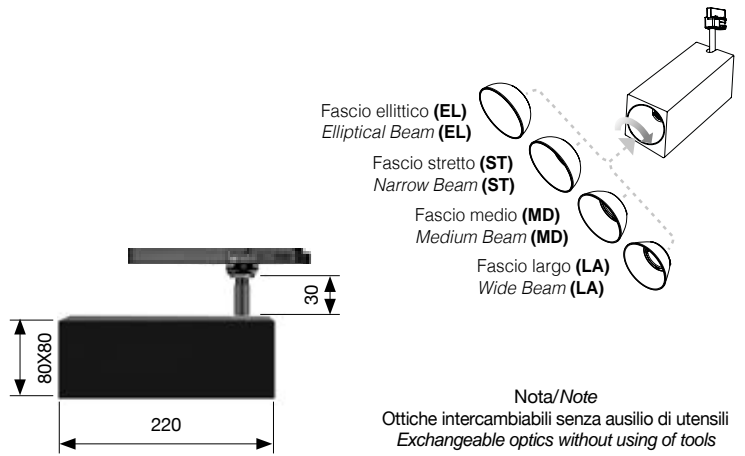
A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	1.0	1	0.8
2	0.5	2	0.9	2	2.0	2	1.6
3	1.7	3	1.3	3	2.8	3	2.5
4	1.0	4	1.8	4	4.0	4	3.3
5	1.2	5	2.2	5	5.0	5	4.2



**Nota/Note**  
 Ottiche intercambiabili senza ausilio di utensili  
 Exchangeable optics without using of tools

# VALE S

FASCIO/BEAM/FAISCEAU/HAZ EL | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.  
 Projecteur LED orientable sur rail avec optiques échangeables.  
 Proyector LED orientable de carril con ópticas intercambiables.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio ellittico (cod. EL). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con alimentazione integrata nell'adattatore ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Extruded aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) elliptical beam (code EL). LED light source. Direct light emission. Track mounting system with built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium extrudé avec traitement époxy. Dissipateur en aluminium extrudé. Optique en polycarbonate métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau elliptique (réf. EL). Source lumineuse LED. Emission directe. Système de fixation sur rail avec alimentation intégrée dans l'adaptateur ON/OFF. Sur demande: dimmable DALI (réf. DL).

Cuerpo de aluminio extruido recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz elíptico (cód. EL). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril con alimentación integrada en el adaptador ON/OFF. A pedido: regulación DALI (cód. DL).



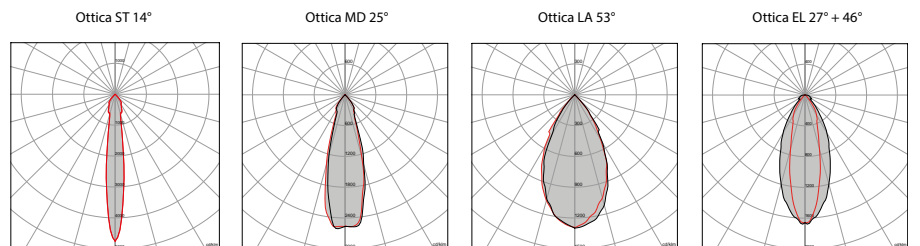
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2150	18	≤ 120	500	HRVAS1	WW: 2700 W:3000 X:3500 N:4000	EL: fascio ellittico elliptical beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
2950	26	≤ 114	700	HRVAS2		ST: fascio stretto narrow beam		
3350	30	≤ 112	800	HRVAS3		MD: fascio medio medium beam  LA: fascio largo wide beam		



A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	1.0	1	0.8
2	0.5	2	0.9	2	2.0	2	1.6
3	1.7	3	1.3	3	2.8	3	2.5
4	1.0	4	1.8	4	4.0	4	3.3
5	1.2	5	2.2	5	5.0	5	4.2



BEBA I

LERICA I

MUSE 80 I

MUSE 50 I

VALE I

Proiettori LED per il retail con alimentatore integrato nel corpo lampada. Performance illuminotecniche nettamente superiori all'attuale generazione di lampade LED.

*LED projectors for retail with built-in driver in the body. Lighting performance definitely higher compared the others LED fixtures in the market nowadays.*

*Projecteurs LED pour le secteur retail avec alimentateur intégré au corps. Performance d'éclairage nettement supérieure à celle des autres appareils LED existants sur le marché.*

*Proyectoros LED para el Retail con alimentación integrada en el cuerpo. Rendimiento de iluminación mejor que los otros dispositivos LED del mercado actual.*

## PROIETTORI A BINARIO

TRACK PROJECTORS  
PROJECTEUR SUR RAIL  
PROYECTOR DE CARRIL

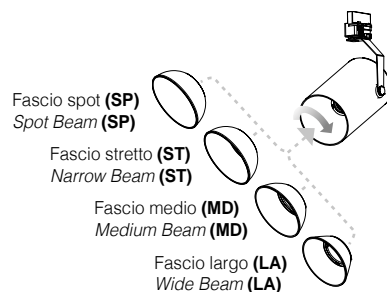
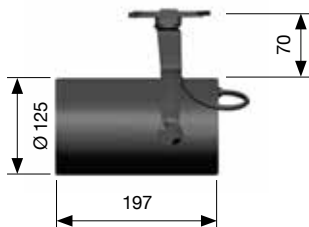


UNO DEI PIÙ  
GRANDI  
PROGETTI STRAORDINARIO

*progettato*







Nota/Note  
 Ottiche intercambiabili senza ausilio di utensili  
 Exchangeable optics without using of tools

# BEBA I

## FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.  
 Projecteur LED orientable sur rail avec optiques échangeables.  
 Proyector LED orientable de carril con ópticas intercambiables.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario (adattatore incluso). Alimentazione elettronica integrata nel corpo lampada ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Extruded aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Track mounting system (adapter included). Built-in electronic driver in the body ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium extrudé avec traitement époxy. Dissipateur en aluminium extrudé. Optique en polycarbonate métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Système de fixation sur rail (adaptateur inclus). Alimentation électronique ON/OFF intégrée. Sur demande: dimmable DALI (réf. DL).

Cuerpo de aluminio extruido recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril (adaptador incluido). Alimentación electrónica integrada ON/OFF. A pedido: regulación DALI (cód. DL).

5Y WARRANTY  
5% FAILURE RATE
60.000 h  
LED LIFETIME L90B10
100.000 h  
LED LIFETIME L70B50
RIPPLE  
FREE

Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2550	22	≤ 116	600	HRBAI1	WW: 2700 W: 3000 X: 3500 N: 4000	<b>SP:</b> fascio spot spot beam <b>ST:</b> fascio stretto narrow beam <b>MD:</b> fascio medio medium beam <b>LA:</b> fascio largo wide beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● <b>WL:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
2950	26	≤ 114	700	HRBAI2				
3350	30	≤ 112	800	HRBAI3				

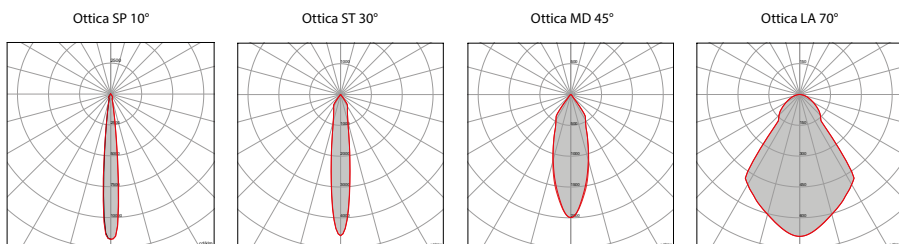
CE
IP44
>90 CRI
3SDCM
IK 07
230 V
50/60 Hz
850°
RG 0
DL DALI
DIM W
>80 CRI
>95 CRI
VIVID PLUS
VEG PLUS
WHITE PLUS
MEAT PLUS
BK

A richiesta | On request

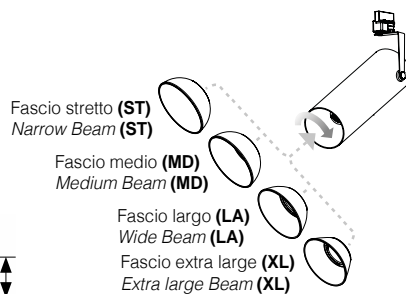
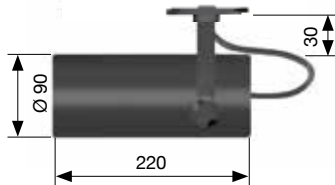
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

Base per fissaggio a parete codice BK  
 Wall mounting base cod. BK



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.2	1	0.5	1	0.8	1	1.4
2	0.3	2	1.0	2	1.6	2	2.8
3	0.5	3	1.6	3	2.5	3	4.2
4	0.7	4	2.1	4	3.3	4	5.6
5	0.8	5	2.7	5	4.2	5	7.0



Nota/Note  
 Ottiche intercambiabili senza ausilio di utensili  
 Exchangeable optics without using of tools

# LERICA I

FASCIO/BEAM/FAISCEAU/HAZ ST|ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.  
 Projecteur LED orientable sur rail avec optiques échangeables.  
 Proyector LED orientable de carril con ópticas intercambiables.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio extra largo (cod. XL) fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario (adattatore incluso). Alimentazione elettronica integrata nel corpo lampada ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Extruded aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Metallized polycarbonate louver extra large beam (cod. XL) wide beam (code LA) medium beam (code MD) narrow beam (code ST). LED light source. Direct light emission. Track mounting system (adapter included). Built-in electronic driver in the body ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium extrudé avec traitement époxy. Dissipateur en aluminium extrudé. Optique en polycarbonate métallisé à faisceau extra large (code XL) faisceau large (code LA) faisceau moyen (code MD) faisceau étroit (code ST). Source lumineuse LED. Emission directe. Système de fixation sur rail (adaptateur inclus). Alimentation électronique ON/OFF intégrée. Sur demande: dimmable DALI (code DL)

Cuerpo de aluminio extruido recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica de policarbonato metalizado de haz extra amplio (cód. XL) haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril (adaptador incluido). Alimentación electrónica integrada ON/OFF. A pedido: regulación DALI (cód. DL).



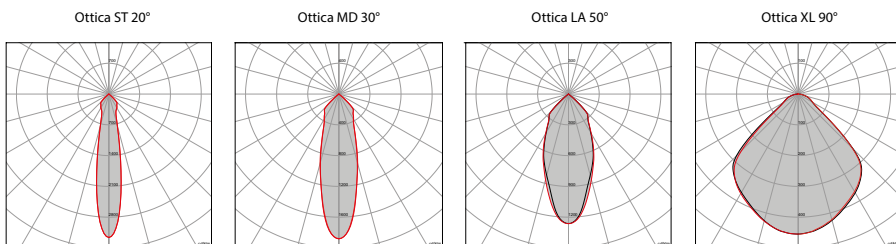
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2150	18	≤ 120	500	<b>HRLAI1</b>	<b>WW: 2700</b> <b>W:3000</b> <b>X:3500</b> <b>N:4000</b>	<b>ST:</b> fascio stretto narrow beam	-: ON/OFF  <b>DL:</b> DALI	<b>Standard:</b> ● <b>WL:</b> White Irazu ● <b>BLL:</b> Black Lava  <b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
2950	26	≤ 114	700	<b>HRLAI2</b>		<b>MD:</b> fascio medio medium beam		
3350	30	≤ 112	800	<b>HRLAI3</b>		<b>LA:</b> fascio largo wide beam  <b>XL:</b> fascio extra large extra large beam		



A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

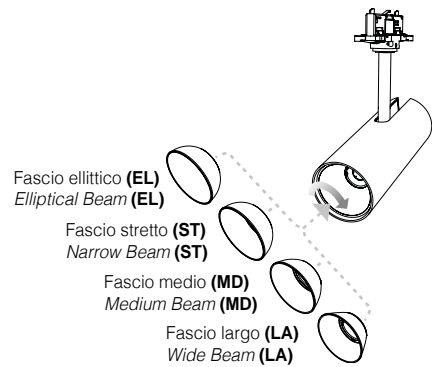
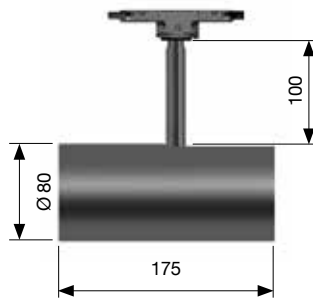
Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%



Base per fissaggio a parete codice BK  
 Wall mounting base cod. BK



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.5	1	0.9	1	2.0
2	0.7	2	1.0	2	1.9	2	4.0
3	1.0	3	1.6	3	2.8	3	6.0
4	1.4	4	2.1	4	3.7	4	8.0
5	1.7	5	2.7	5	4.7	5	10



Nota/Note  
Ottiche intercambiabili senza ausilio di utensili  
Exchangeable optics without using of tools

# MUSE 80 I

FASCIO/BEAM/FAISCEAU/HAZ EL | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
Adjustable track-mounted LED projector, exchangeable optics.  
Projecteur LED orientable sur rail avec optiques échangeables.  
Projector LED orientable de carril con ópticas intercambiables.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio ellittico (cod. EL). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario (adattatore incluso). Alimentazione elettronica integrata nel corpo lampada ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Extruded aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) elliptical beam (code EL). LED light source. Direct light emission. Track mounting system (adapter included). Built-in electronic driver in the body ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium extrudé avec traitement époxy. Dissipateur en aluminium extrudé. Optique en polycarbonate métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau elliptique (réf. EL). Source lumineuse LED. Emission directe. Système de fixation sur rail (adaptateur inclus). Alimentation électronique ON/OFF intégrée. Sur demande: dimmable DALI (réf. DL).

Cuerpo de aluminio extruido recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz elíptico (cód. EL). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril (adaptador incluido). Alimentación electrónica integrada ON/OFF. A pedido: regulación DALI (cód. DL).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2150	18	≤ 120	500	HRM811	WW: 2700 W:3000 X:3500 N:4000	EL: fascio ellittico elliptical beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
2550	22	≤ 114	600	HRM812		ST: fascio stretto narrow beam		
2950	26	≤ 112	700	HRM813		MD: fascio medio medium beam  LA: fascio largo wide beam		

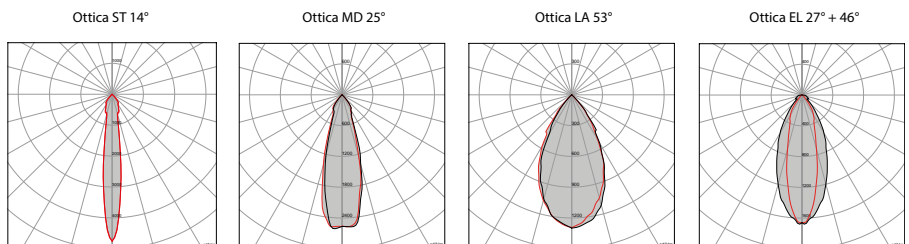


A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

Base per fissaggio a parete codice BK  
Wall mounting base cod. BK



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	1.0	1	0.8
2	0.5	2	0.9	2	2.0	2	1.6
3	1.7	3	1.3	3	2.8	3	2.5
4	1.0	4	1.8	4	4.0	4	3.3
5	1.2	5	2.2	5	5.0	5	4.2

SAMSUNG

la smart,  
asa



ALESSI

ALCANTARA

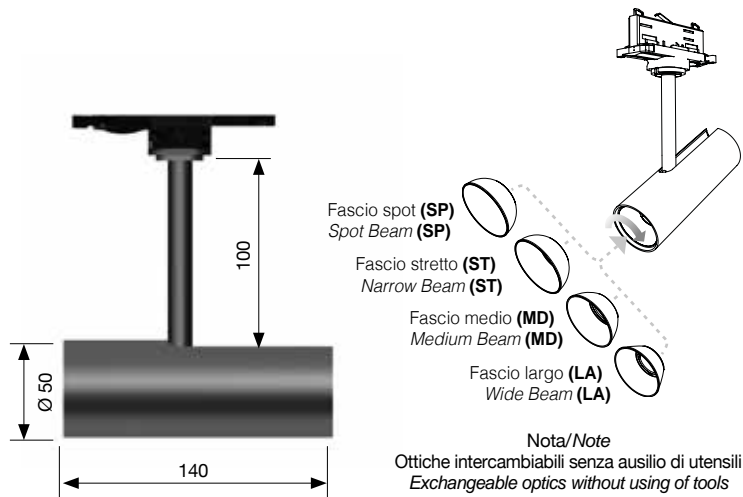
Coccolati tutto l'anno  
nella tua nuova casa.



ZUCCHETTI. | CAIMI







Nota/Note  
Ottiche intercambiabili senza ausilio di utensili  
Exchangeable optics without using of tools

# MUSE 50 I

FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
Adjustable track-mounted LED projector, exchangeable optics.  
Projecteur LED orientable sur rail avec optiques échangeables.  
Proyector LED orientable de carril con ópticas intercambiables.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con adattatore incluso. Alimentazione elettronica integrata nel corpo lampada ON/OFF. A richiesta dimmerabile DALI (cod. DL) solo con basetta e alimentazione remota.

Extruded aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Track mounting system (adapter included). Built-in electronic driver in the body ON/OFF. On request dimmable DALI (code DL) only with base and remote power supply.

Corps en aluminium extrudé avec traitement époxy. Dissipateur en aluminium extrudé. Optique en polycarbonate métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Système de fixation sur rail (adaptateur inclus). Alimentation électronique ON/OFF intégrée dans le corps de la lampe. Sur demande dimmable DALI (code DL) uniquement avec base et alimentation à distance.

Cuerpo de aluminio extruido recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril (adaptador incluido). Alimentación electrónica integrada ON/OFF en el cuerpo de la lámpara. Bajo pedido regulable DALI (código DL) sólo con base y alimentación remota.



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
890	7	≤ 127	200	HRM511	SP: fascio spot spot beam	WW: 2700 W: 3000 X: 3500 N: 4000	-: ON/OFF  DL: DALI	<b>Standard:</b> ● WI: White Irazu ● BLL: Black Lava <b>Su richiesta / On request:</b> ● SB: Silver Bombalai ● BL: Bronze Lario ● RR: Rust Rame ● BF: Beige Futura ● GK: Gold Karkar ● BT: Blue Telica
1100	9	≤ 122	250	HRM512	ST: fascio stretto narrow beam			
1550	13	≤ 119	350	HRM513	MD: fascio medio medium beam			
					LA: fascio largo wide beam			

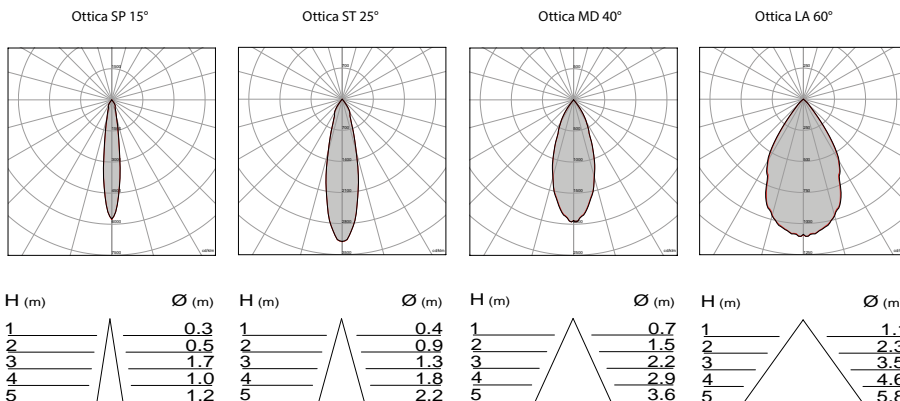


A richiesta | On request

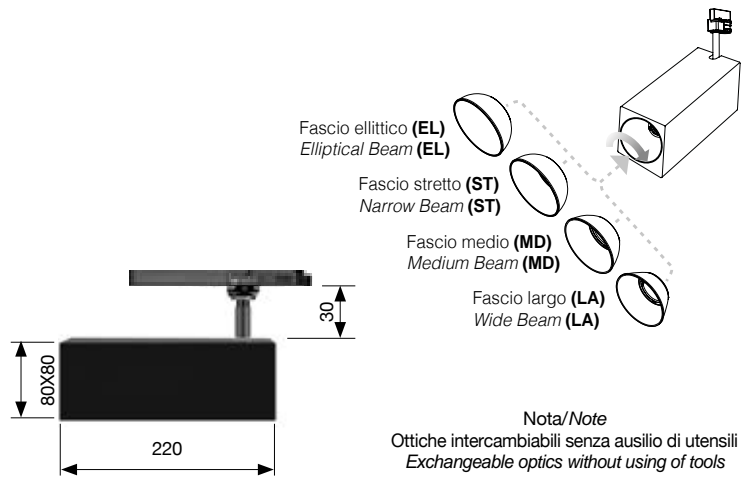
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

Base per fissaggio a parete codice BK  
Wall mounting base cod. BK







# VALE I

## FASCIO/BEAM/FAISCEAU/HAZ EL | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
Adjustable track-mounted LED projector, exchangeable optics.  
Projecteur LED orientable sur rail avec optiques échangeables.  
Projector LED orientable de carril con ópticas intercambiables.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio ellittico (cod. EL). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario (adattatore incluso). Alimentazione elettronica integrata nel corpo lampada ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Extruded aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) elliptical beam (code EL). LED light source. Direct light emission. Track mounting system (adapter included). Built-in electronic driver in the body ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium extrudé avec traitement époxy. Dissipateur en aluminium extrudé. Optique en polycarbonate métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Système de fixation sur rail (adaptateur inclus). Alimentation électronique ON/OFF intégrée dans le corps de la lampe. Sur demande: dimmable DALI (réf. DL).

Cuerpo de aluminio extruido recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril (adaptador incluido). Alimentación electrónica integrada ON/OFF en el cuerpo de la lámpara. A pedido: regulación DALI (cód. DL).

5Y WARRANTY 5% FAILURE RATE
60.000 h LED LIFETIME L70B10
100.000 h LED LIFETIME L70B50
RIPPLE FREE

Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2150	18	≤ 120	500	HRVAI1	WW: 2700 W: 3000 X: 3500 N: 4000	EL: fascio ellittico elliptical beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● <b>WL:</b> White Irazu ● <b>BLL:</b> Black Lava  <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
2550	22	≤ 114	600	HRVAI2		ST: fascio stretto narrow beam		
2950	26	≤ 112	700	HRVAI3		MD: fascio medio medium beam LA: fascio largo wide beam		

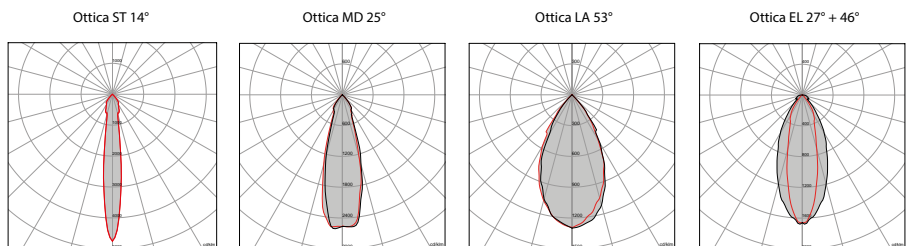
CE
IP44
>90 CRI
3SDCM
IK 07
230 V
50/60 Hz
850°
RG 0
DL
DIM W
>80 CRI
>95 CRI
VIVID PLUS
VEG PLUS
WHITE PLUS
MEAT PLUS
BK

A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

Base per fissaggio a parete codice BK  
Wall mounting base cod. BK



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	1.0	1	0.8
2	0.5	2	0.9	2	2.0	2	1.6
3	1.7	3	1.3	3	2.8	3	2.5
4	1.0	4	1.8	4	4.0	4	3.3
5	1.2	5	2.2	5	5.0	5	4.2



MUSE R PS/10

MUSE R PS/3

MUSE 56 PS/10

MUSE 56 PS/3

MUSE 54 PS/10

MUSE 55 S/3

MUSE 55 LENS S/10

MUSE 55 LENS S/3

MUSE 55 LENS IN

MUSE 55 LENS UP

Proiettori LED per il retail con alimentatore integrato a binario.  
Performance illuminotecniche nettamente superiori all'attuale  
generazione di lampade LED.

*LED projectors for retail with built-in driver in the track.  
Lighting performance definitely higher compared to the  
others LED fixtures in the market nowadays.*

*Projecteur LED pour le secteur retail avec faisceau ajustable.  
Performance d'éclairage nettement supérieure à celle des  
autres appareils LED existants sur le marché.*

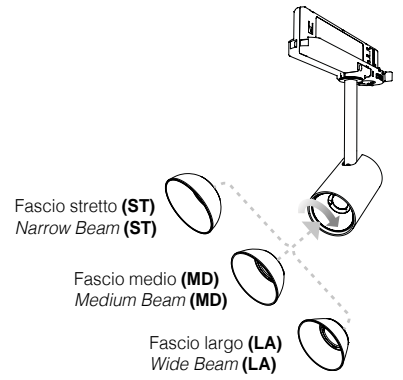
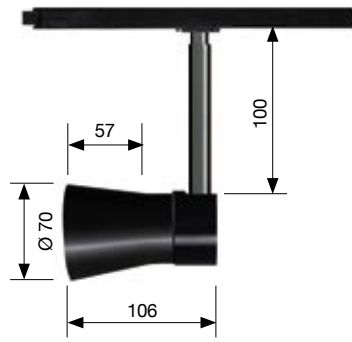
*Proyector Led para el Retail con haz regulable.  
Rendimiento de iluminación mejor que los otros dispositivos  
LED del mercado actual.*

## PROIETTORI A BINARIO

TRACK PROJECTORS  
PROJECTEUR SUR RAIL  
PROYECTOR DE CARRIL







Nota/Note  
 Ottiche intercambiabili  
 Exchangeable optics

# MUSE R PS/10

FASCIO/BEAM/FAISCEAU/HAZ ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.  
 Projecteur LED orientable sur rail avec optiques échangeables.  
 Proyector LED orientable de carril con ópticas intercambiables.

Corpo in alluminio con funzione di dissipatore verniciato con polveri epossidiche previa fosfatazione. Ottica retratta di mm 57 in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con alimentazione integrata nell'adattatore ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Aluminium body with heatsink function painted with epoxy powders after phosphating. Lenticular polycarbonate louver set back of 57 mm, wide beam (code LA), medium beam (code MD), narrow beam (code ST). LED light source. Direct light emission. Track mounting system with built-in electronic driver ON/OFF. On request: dimmerable DALI (code DL).

Corps en aluminium réalisé par usinage lui donnant la propriété de dissipateur, avec traitement époxy. Optique lenticulaire en retrait de 57mm en polycarbonate à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST). Source lumineuse LED. Emission directe. Système de fixation sur rail avec alimentation intégrée dans l'adaptateur ON/OFF. Sur demande: dimmerable DALI (réf. DL).

Cuerpo de aluminio con función de disipador y recubierto con polvo epoxi previamente fosfatado. Óptica retraída de 57mm de policarbonato lenticular de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST). Fuente de iluminación LED. Sistema de fijación con carril con alimentación integrada en el adaptador ON/OFF. A pedido: regulación DALI (cód. DL).

5Y WARRANTY  
5% FAILURE RATE
60.000 h  
LED LIFETIME L90B10
100.000 h  
LED LIFETIME L70B50
RIPPLE  
FREE

Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1100	9	≤ 122	250	HRMRP11	<b>WW: 2700</b> <b>W:3000</b> <b>X:3500</b> <b>N:4000</b>	<b>ST:</b> fascio stretto narrow beam	<b>-: ON/OFF</b>  <b>DL: DALI</b>	<b>Standard:</b> <ul style="list-style-type: none"> <li>● <b>W1:</b> White Irazu</li> <li>● <b>BLL:</b> Black Lava</li> </ul> <b>Su richiesta / On request:</b> <ul style="list-style-type: none"> <li>● <b>SB:</b> Silver Bombalai</li> <li>● <b>BL:</b> Bronze Lario</li> <li>● <b>RR:</b> Rust Rame</li> <li>● <b>BF:</b> Beige Futura</li> <li>● <b>GK:</b> Gold Karkar</li> <li>● <b>BT:</b> Blue Telica</li> </ul>
1550	13	≤ 119	350	HRMRP12		<b>MD:</b> fascio medio medium beam		
2150	18,5	≤ 116	500	HRMRP13		<b>LA:</b> fascio largo wide beam		

CE
>90 CRI
3SDCM
IP44 EN 60529
IK 07 EN 60068
230 V 2014/26/UE
50/60 Hz
850° EN 60695
RG 0 EN 62471
19 UGR
DL DALI
DIM W
>80 CRI
>95 CRI
VIVID PLUS
VEG PLUS
WHITE PLUS
MEAT PLUS

A richiesta | On request

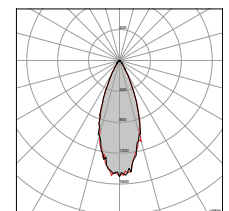
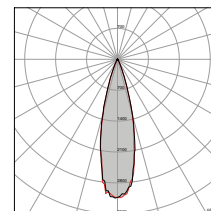
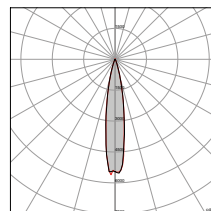
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

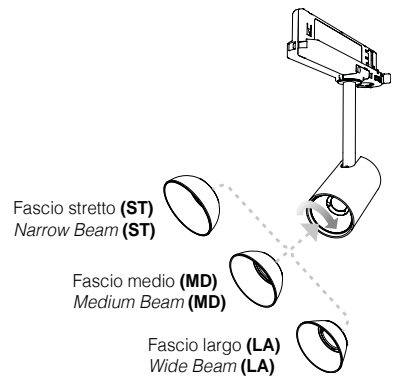
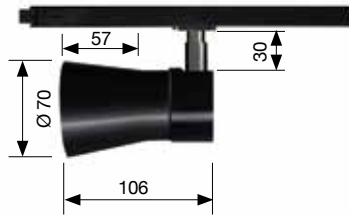
Ottica ST 12°

Ottica MD 25°

Ottica LA 38°



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.2	1	0.4	1	0.7
2	0.4	2	0.8	2	1.4
3	0.6	3	1.3	3	2.1
4	0.8	4	1.7	4	2.7
5	1.0	5	2.1	5	3.4



Nota/Note  
 Ottiche intercambiabili  
 Exchangeable optics

# MUSE R PS/3

FASCIO/BEAM/FAISCEAU/HAZ ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.  
 Projecteur LED orientable sur rail avec optiques échangeables.  
 Proyector LED orientable de carril con ópticas intercambiables.

Corpo in alluminio con funzione di dissipatore verniciato con polveri epossidiche previa fosfatizzazione. Ottica retratta di mm 57 in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con alimentazione integrata nell'adattatore ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Aluminium body with heatsink function painted with epoxy powders after phosphating. Lenticular polycarbonate louver set back of 57 mm, wide beam (code LA), medium beam (code MD), narrow beam (code ST). LED light source. Direct light emission. Track mounting system with built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium réalisé par usinage lui donnant la propriété de dissipateur, avec traitement époxy. Optique lenticulaire en retrait de 57mm en polycarbonate à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST). Source lumineuse LED. Emission directe. Système de fixation sur rail avec alimentation intégrée dans l'adaptateur ON/OFF. Sur demande: dimmable DALI (réf. DL).

Cuerpo de aluminio con función de disipador y recubierto con polvo epoxi previamente fosfatado. Óptica retraída de 57mm de policarbonato lenticular de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST). Fuente de iluminación LED. Sistema de fijación con carril con alimentación integrada en el adaptator ON/OFF. A pedido: regulación DALI (cód. DL).

5Y WARRANTY 5% FAILURE RATE
60.000 h LED LIFETIME L90B10
100.000 h LED LIFETIME L70B50
RIPPLE FREE

Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1100	9	≤ 122	250	HRMRP31	<b>WW: 2700</b> <b>W:3000</b> <b>X:3500</b> <b>N:4000</b>	<b>ST:</b> fascio stretto narrow beam	-: ON/OFF DL: DALI	<b>Standard:</b> ● <b>W1:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
1550	13	≤ 119	350	HRMRP32		<b>MD:</b> fascio medio medium beam		
2150	18,5	≤ 116	500	HRMRP33		<b>LA:</b> fascio largo wide beam		

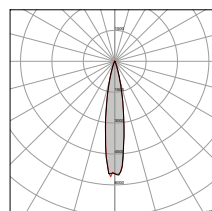
CE
>90 CRI
3SDCM
IP44 EN 60529
IK 07 EN 60668
230 V 2014/25/UE
50/60 Hz
850° EN 60695
RG 0 EN 62471
19 UGR
DALI
DIM W
>80 CRI
>95 CRI
VIVID PLUS
VEG PLUS
WHITE PLUS
MEAT PLUS

A richiesta | On request

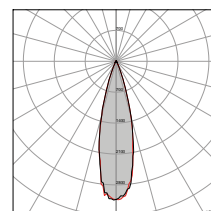
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

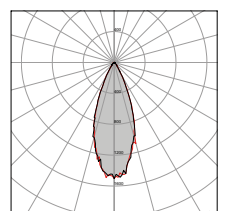
Ottica ST 12°



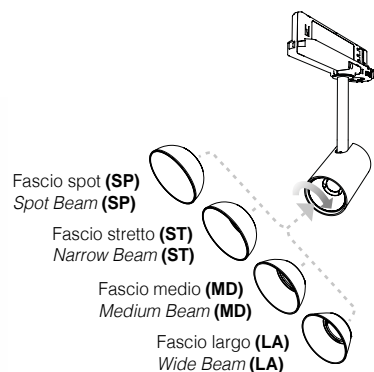
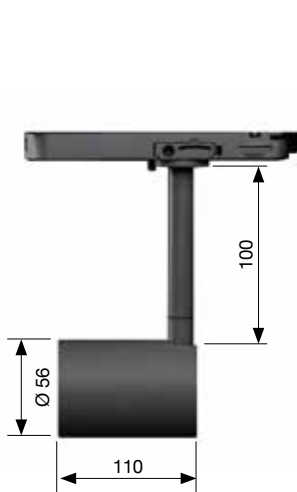
Ottica MD 25°



Ottica LA 38°



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.2	1	0.4	1	0.7
2	0.4	2	0.8	2	1.4
3	0.6	3	1.3	3	2.1
4	0.8	4	1.7	4	2.7
5	1.0	5	2.1	5	3.4



Nota/Note  
Ottiche intercambiabili senza ausilio di utensili  
Exchangeable optics without using of tools

# MUSE 56 PS/10

FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
Adjustable track-mounted LED projector, exchangeable optics.  
Projecteur LED orientable sur rail avec optiques échangeables.  
Projector LED orientable de carril con ópticas intercambiables.

Corpo in estruso d'alluminio lavorato dal pieno con funzione di dissipatore di calore verniciato con polveri epossidiche previa fosfatazione. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con alimentazione integrata nell'adattatore ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Extruded aluminium body machined from solid, with heatsink function, painted with epoxy powders after phosphating. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Track mounting system with built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium extrudé réalisé par usinage lui donnant la propriété de dissipateur, avec traitement époxy. Optique en polycarbonate métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Système de fixation sur rail avec alimentation intégrée dans l'adaptateur ON/OFF. Sur demande: dimmable DALI (réf. DL).

Cuerpo de aluminio extruido mecanizado a partir de sólido con función de disipador y recubierto con polvo epoxi previamente fosfatado. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril con alimentación integrada en el adaptador ON/OFF. A pedido: regulación DALI (cód. DL).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1100	9	≤ 122	250	HRM6P11	WW: 2700 W:3000 X:3500 N:4000	SP: fascio spot spot beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● WI: White Irazu ● BLL: Black Lava <b>Su richiesta / On request:</b> ● SB: Silver Bombalai ● BL: Bronze Lario ● RR: Rust Rame ● BF: Beige Futura ● GK: Gold Karkar ● BT: Blue Telica
1550	13	≤ 119	350	HRM6P12		ST: fascio stretto narrow beam		
2150	18,5	≤ 116	500	HRM6P13		MD: fascio medio medium beam		
2950	26	≤ 114	700	HRM6P14		LA: fascio largo wide beam		

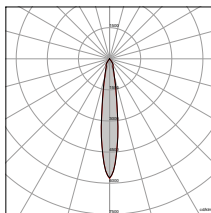


A richiesta | On request

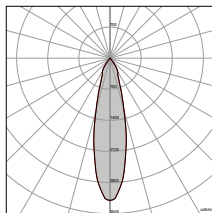
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

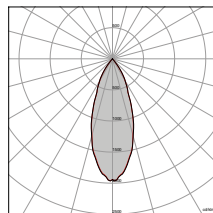
Ottica SP 15°



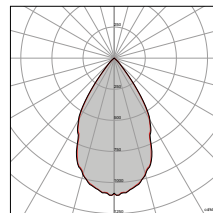
Ottica ST 25°



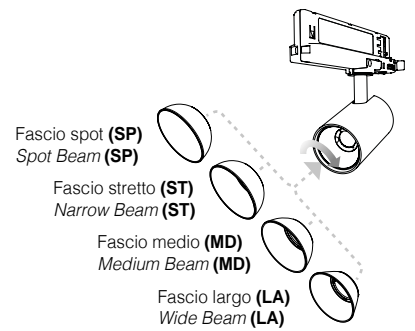
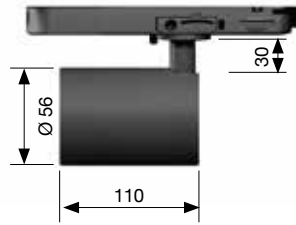
Ottica MD 40°



Ottica LA 60°



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	0.7	1	1.1
2	0.5	2	0.9	2	1.5	2	2.3
3	1.7	3	1.3	3	2.2	3	3.5
4	1.0	4	1.8	4	2.9	4	4.6
5	1.2	5	2.2	5	3.6	5	5.8



Nota/Note  
 Ottiche intercambiabili senza ausilio di utensili  
 Exchangeable optics without using of tools

# MUSE 56 PS/3

FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.  
 Projecteur LED orientable sur rail avec optiques échangeables.  
 Projector LED orientable de carril con ópticas intercambiables.

Corpo in estruso d'alluminio lavorato dal pieno con funzione di dissipatore di calore verniciato con polveri epossidiche previa fosfatizzazione. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con alimentazione integrata nell'adattatore ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Extruded aluminium body machined from solid, with heatsink function, painted with epoxy powders after phosphating. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Track mounting system with built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium extrudé réalisé par usinage lui donnant la propriété de dissipateur, avec traitement époxy. Optique en polycarbonate métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Système de fixation sur rail avec alimentation intégrée dans l'adaptateur ON/OFF. Sur demande: dimmable DALI (réf. DL).

Cuerpo de aluminio extruido mecanizado a partir de sólido con función de disipador y recubierto con polvo epoxi previamente fosfatado. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril con alimentación integrada en el adaptador ON/OFF. A pedido: regulación DALI (cód. DL).



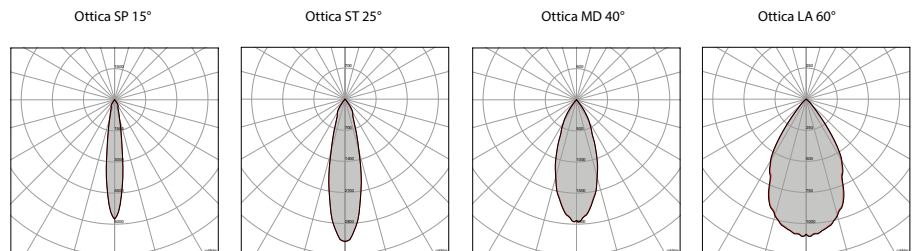
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1100	9	≤ 122	250	HRM6P31	WW: 2700 W:3000 X:3500 N:4000	SP: fascio spot spot beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● WI: White Irazu ● BLL: Black Lava <b>Su richiesta /On request:</b> ● SB: Silver Bombalai ● BL: Bronze Lario ● RR: Rust Rame ● BF: Beige Futura ● GK: Gold Karkar ● BT: Blue Telica
1550	13	≤ 119	350	HRM6P32		ST: fascio stretto narrow beam		
2150	18,5	≤ 116	500	HRM6P33		MD: fascio medio medium beam		
2950	26	≤ 114	700	HRM6P34		LA: fascio largo wide beam		



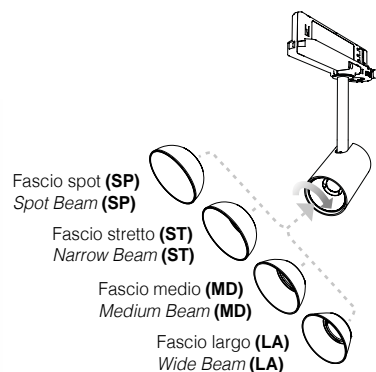
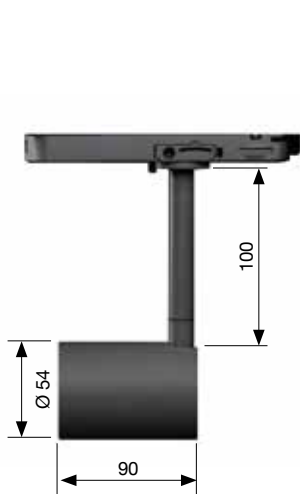
A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	0.7	1	1.1
2	0.5	2	0.9	2	1.5	2	2.3
3	1.7	3	1.3	3	2.2	3	3.5
4	1.0	4	1.8	4	2.9	4	4.6
5	1.2	5	2.2	5	3.6	5	5.8



Nota/Note  
 Ottiche intercambiabili senza ausilio di utensili  
 Exchangeable optics without using of tools

# MUSE 54 PS/10

FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.  
 Projecteur LED orientable sur rail avec optiques échangeables.  
 Projector LED orientable de carril con ópticas intercambiables.

Corpo in estruso d'alluminio lavorato dal pieno con funzione di dissipatore di calore verniciato con polveri epossidiche previa fosfatazione. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con alimentazione integrata nell'adattatore ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Extruded aluminium body machined from solid, with heatsink function, painted with epoxy powders after phosphating. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Track mounting system with built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium extrudé réalisé par usinage lui donnant la propriété de dissipateur, avec traitement époxy. Optique en polycarbonate métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Système de fixation sur rail avec alimentation intégrée dans l'adaptateur ON/OFF. Sur demande: dimmable DALI (réf. DL).

Cuerpo de aluminio extruido mecanizado a partir de sólido con función de disipador y recubierto con polvo epoxi previamente fosfatao. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril con alimentación integrada en el adaptador ON/OFF. A pedido: regulación DALI (cód. DL).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1100	9	≤ 122	250	HRM5P11	WW: 2700 W:3000 X:3500 N:4000	SP: fascio spot spot beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● WI: White Irazu ● BLL: Black Lava <b>Su richiesta / On request:</b> ● SB: Silver Bombalai ● BL: Bronze Lario ● RR: Rust Rame ● BF: Beige Futura ● GK: Gold Karkar ● BT: Blue Telica
1550	13	≤ 119	350	HRM5P12		ST: fascio stretto narrow beam		
2150	18,5	≤ 116	500	HRM5P13		MD: fascio medio medium beam  LA: fascio largo wide beam		

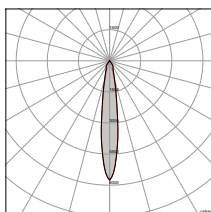


A richiesta | On request

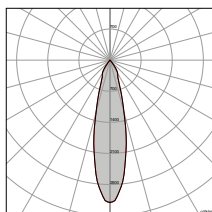
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

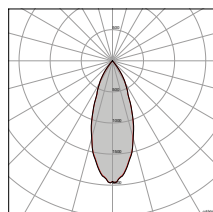
Ottica SP 15°



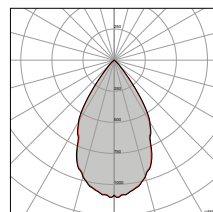
Ottica ST 25°



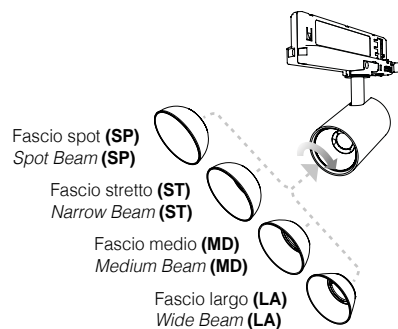
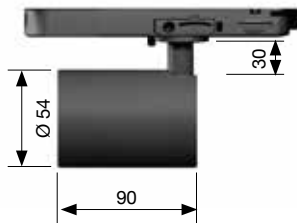
Ottica MD 40°



Ottica LA 60°



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	0.7	1	1.1
2	0.5	2	0.9	2	1.5	2	2.3
3	1.7	3	1.3	3	2.2	3	3.5
4	1.0	4	1.8	4	2.9	4	4.6
5	1.2	5	2.2	5	3.6	5	5.8



Nota/Note  
 Ottiche intercambiabili senza ausilio di utensili  
 Exchangeable optics without using of tools

# MUSE 54 PS/3

FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.  
 Projecteur LED orientable sur rail avec optiques échangeables.  
 Proyector LED orientable de carril con ópticas intercambiables.

Corpo in estruso d'alluminio lavorato dal pieno con funzione di dissipatore di calore verniciato con polveri epossidiche previa fosfatazione. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con alimentazione integrata nell'adattatore ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Extruded aluminium body machined from solid, with heatsink function, painted with epoxy powders after phosphating. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Track mounting system with built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium extrudé réalisé par usinage lui donnant la propriété de dissipateur, avec traitement époxy. Optique en polycarbonate métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Système de fixation sur rail avec alimentation intégrée dans l'adaptateur ON/OFF. Sur demande: dimmable DALI (réf. DL).

Cuerpo de aluminio extruido mecanizado a partir de sólido con función de disipador y recubierto con polvo epoxi previamente fosfatado. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril con alimentación integrada en el adaptador ON/OFF. A pedido: regulación DALI (cód. DL).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1100	9	≤ 122	250	HRM5P31	WW: 2700 W:3000 X:3500 N:4000	SP: fascio spot spot beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● <b>WL:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
1550	13	≤ 119	350	HRM5P32		ST: fascio stretto narrow beam		
2150	18,5	≤ 116	500	HRM5P33		MD: fascio medio medium beam  LA: fascio largo wide beam		

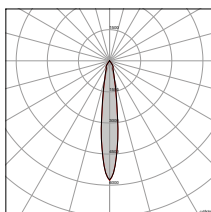


A richiesta | On request

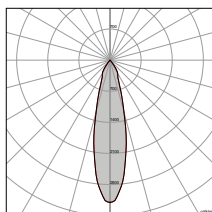
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

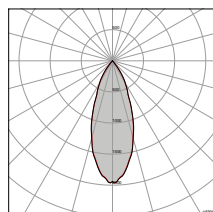
Ottica SP 15°



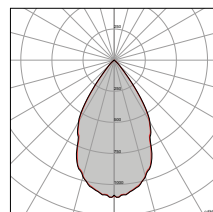
Ottica ST 25°



Ottica MD 40°



Ottica LA 60°



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	0.7	1	1.1
2	0.5	2	0.9	2	1.5	2	2.3
3	1.7	3	1.3	3	2.2	3	3.5
4	1.0	4	1.8	4	2.9	4	4.6
5	1.2	5	2.2	5	3.6	5	5.8





LA MER

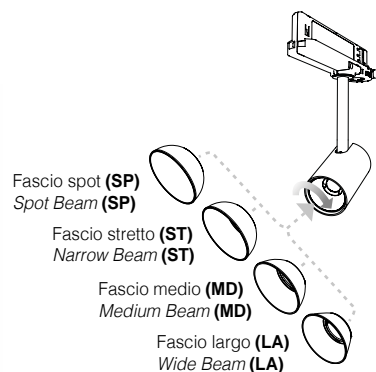
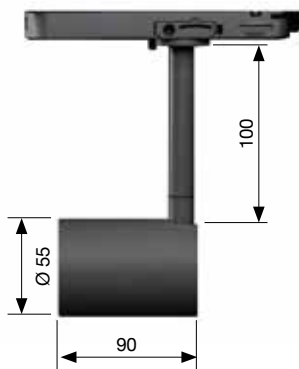
LA MER

sisley

ESTÉE LAUDER

ALPHA K

ALPHA K



Nota/Note  
 Ottiche intercambiabili senza ausilio di utensili  
 Exchangeable optics without using of tools

# MUSE 55 S/10

FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.  
 Projecteur LED orientable sur rail avec optiques échangeables.  
 Projector LED orientable de carril con ópticas intercambiables.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con alimentazione integrata nell'adattatore ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Extruded aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Track mounting system with built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium extrudé avec traitement époxy. Dissipateur en aluminium extrudé. Optique en polycarbonate métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Système de fixation sur rail avec alimentation intégrée dans l'adaptateur ON/OFF. Sur demande: dimmable DALI (réf. DL).

Cuerpo de aluminio extruido recubierto con polvo epoxi previamente fosfatado. Dissipador de aluminio extruido. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril con alimentación integrada en el adaptador ON/OFF. A pedido: regulación DALI (cód. DL).

5Y WARRANTY 5% FAILURE RATE | 60.000 h LED LIFETIME L90B10 | 100.000 h LED LIFETIME L70B50 | RIPPLE FREE

Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1100	9	≤ 122	250	HRM6S11	WW: 2700 W:3000 X:3500 N:4000	SP: fascio spot spot beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● <b>Wl:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
1550	13	≤ 119	350	HRM6S12		ST: fascio stretto narrow beam		
2150	18,5	≤ 116	500	HRM6S13		MD: fascio medio medium beam  LA: fascio largo wide beam		

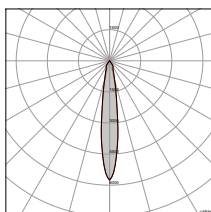
CE | >90 CRI | 3SDCM | IP44 | IK 07 | 230 V | 50/60 Hz | 850° | DALI | RG 0 | DL | DIM W | >80 CRI | >95 CRI | VIVID PLUS | VEG PLUS | WHITE PLUS | MEAT PLUS

A richiesta | On request

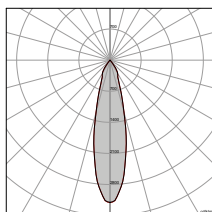
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

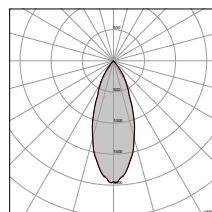
Ottica SP 15°



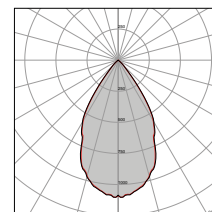
Ottica ST 25°



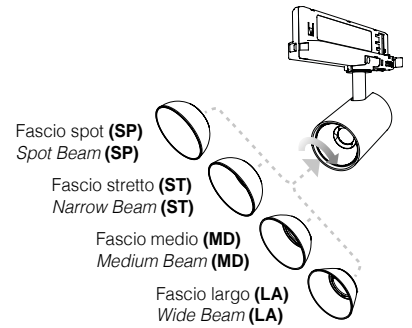
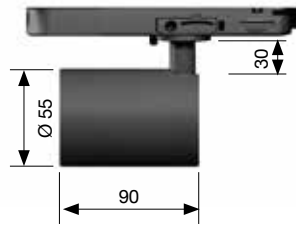
Ottica MD 40°



Ottica LA 60°



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	0.7	1	1.1
2	0.5	2	0.9	2	1.5	2	2.3
3	1.7	3	1.3	3	2.2	3	3.5
4	1.0	4	1.8	4	2.9	4	4.6
5	1.2	5	2.2	5	3.6	5	5.8



**Nota/Note**  
 Ottiche intercambiabili senza ausilio di utensili  
 Exchangeable optics without using of tools

# MUSE 55 S/3

FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.  
 Projecteur LED orientable sur rail avec optiques échangeables.  
 Projector LED orientable de carril con ópticas intercambiables.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con alimentazione integrata nell'adattatore ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Extruded aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Track mounting system with built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium extrudé avec traitement époxy. Dissipateur en aluminium extrudé. Optique en polycarbonate métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Système de fixation sur rail avec alimentation intégrée dans l'adaptateur ON/OFF. Sur demande: dimmable DALI (réf. DL).

Cuerpo de aluminio extruido recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril con alimentación integrada en el adaptador ON/OFF. A pedido: regulación DALI (cód. DL).



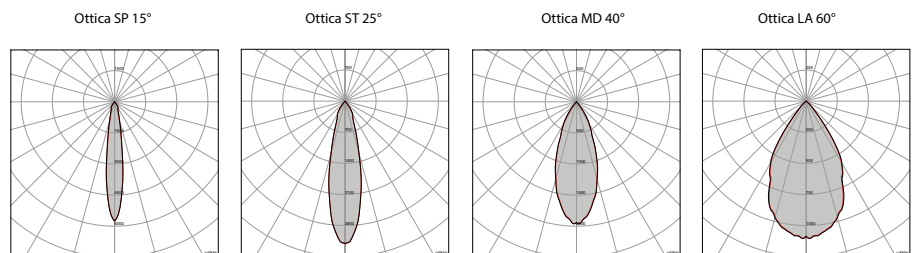
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1100	9	≤ 122	250	HRM6S31	WW: 2700 W: 3000 X: 3500 N: 4000	SP: fascio spot spot beam ST: fascio stretto narrow beam MD: fascio medio medium beam LA: fascio largo wide beam	-: ON/OFF DL: DALI	Standard: ● WI: White Irazu ● BLL: Black Lava Su richiesta / On request: ● SB: Silver Bombalai ● BL: Bronze Lario ● RR: Rust Rame ● BF: Beige Futura ● GK: Gold Karkar ● BT: Blue Telica
1550	13	≤ 119	350	HRM6S32				
2150	18,5	≤ 116	500	HRM6S33				



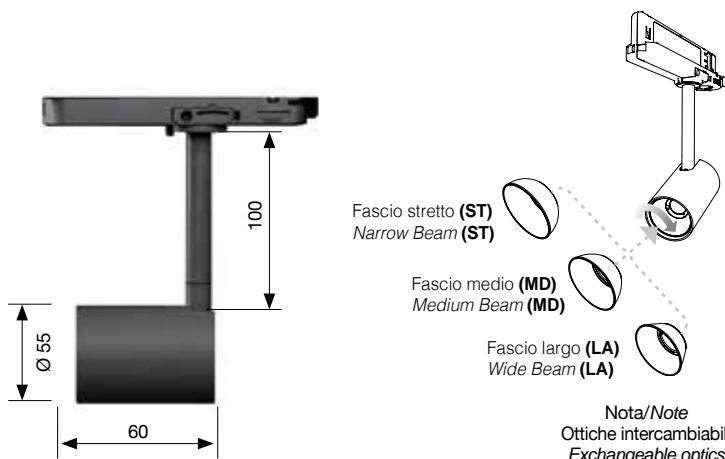
A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	0.7	1	1.1
2	0.5	2	0.9	2	1.5	2	2.3
3	1.7	3	1.3	3	2.2	3	3.5
4	1.0	4	1.8	4	2.9	4	4.6
5	1.2	5	2.2	5	3.6	5	5.8



# MUSE 55 LENS S/10

FASCIO/BEAM/FAISCEAU/HAZ ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
Adjustable track-mounted LED projector, exchangeable optics.  
Projecteur LED orientable sur rail avec optiques échangeables.  
Projector LED orientable de carril con ópticas intercambiables.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con alimentazione integrata nell'adattatore ON/OFF. A richiesta dimmerabile DALI (cod. DL).

Extruded aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST). LED light source. Direct light emission. Track mounting system with built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium extrudé avec traitement époxy. Dissipateur en aluminium extrudé. Optique lenticulaire en polycarbonate à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST). Source lumineuse LED. Emission directe. Système de fixation sur rail avec alimentation intégrée dans l'adaptateur ON/OFF. Sur demande: dimmable Dali (réf. DL).

Cuerpo de aluminio extruido con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica lenticular de policarbonato de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril con alimentación integrada en el adaptator ON/OFF. A pedido: regulación DALI (cód. DL).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1100	9	≤ 122	250	HRM6L11	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	<b>ST:</b> fascio stretto narrow beam <b>MD:</b> fascio medio medium beam <b>LA:</b> fascio largo wide beam	-: ON/OFF DL: DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
1550	13	≤ 119	350	HRM6L12				
2150	18,5	≤ 116	500	HRM6L13				



A richiesta | On request

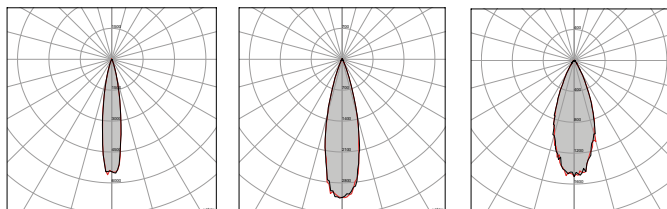
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

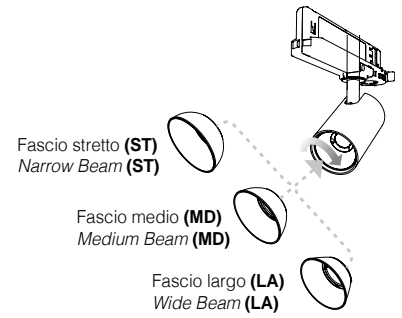
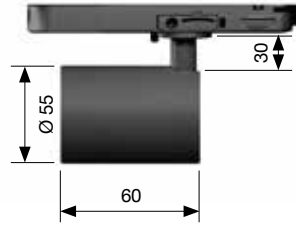
Ottica ST 12°

Ottica MD 25°

Ottica LA 38°



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.2	1	0.4	1	0.7
2	0.4	2	0.8	2	1.4
3	0.6	3	1.3	3	2.1
4	0.8	4	1.7	4	2.7
5	1.0	5	2.1	5	3.4



Nota/Note  
 Ottiche intercambiabili  
 Exchangeable optics

# MUSE 55 LENS S/3

FASCIO/BEAM/FAISCEAU/HAZ ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.  
 Projecteur LED orientable sur rail avec optiques échangeables.  
 Projector LED orientable de carril con ópticas intercambiables.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con alimentazione integrata nell'adattatore ON/OFF. A richiesta dimmerabile DALI (cod. DL).

Extruded aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST). LED light source. Direct light emission. Track mounting system with built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium extrudé avec traitement époxy. Dissipateur en aluminium extrudé. Optique lenticulaire en polycarbonate à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST). Source lumineuse LED. Emission directe. Système de fixation sur rail avec alimentation intégrée dans l'adaptateur ON/OFF. Sur demande: dimmable Dali (réf. DL).

Cuerpo de aluminio extruido con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica lenticular de policarbonato de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril con alimentación integrada en el adaptador ON/OFF. A pedido: regulación DALI (cód. DL).

5Y WARRANTY 5% FAILURE RATE
60.000 h LED LIFETIME L90B10
100.000 h LED LIFETIME L70B50
RIPPLE FREE

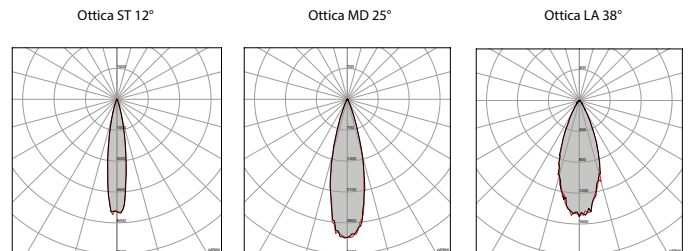
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1100	9	≤ 122	250	HRM6L31	WW: 2700 W: 3000 X: 3500 N: 4000	ST: fascio stretto narrow beam	-: ON/OFF DL: DALI	<b>Standard:</b> ● <b>WL:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
1550	13	≤ 119	350	HRM6L32		MD: fascio medio medium beam		
2150	18,5	≤ 116	500	HRM6L33		LA: fascio largo wide beam		

CE
IP44
>90 CRI
35DCM
IK 07
230 V
50/60 Hz
850°
FREEDIM
RG 0
DL DALI
DIM W
>80 CRI
>95 CRI
VIVID PLUS
VEG PLUS
WHITE PLUS
MEAT PLUS

A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90.  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90.  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.2	1	0.4	1	0.7
2	0.4	2	0.8	2	1.4
3	0.6	3	1.3	3	2.1
4	0.8	4	1.7	4	2.7
5	1.0	5	2.1	5	3.4



Cartier

Chloé

DOUCE & GABBANA

GUCCI

HERMÈS

Cartier

Chloé

DOUCE & GABBANA

GUCCI

Cartier

Chloé

DOUCE & GABBANA

GUCCI

BURBERRY

Chloé

DOUCE & GABBANA

GUCCI

BURBERRY

COACH

DOUCE & GABBANA

GUCCI

CLINIQUE

COACH

DOUCE & GABBANA

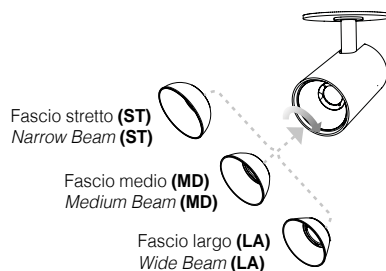
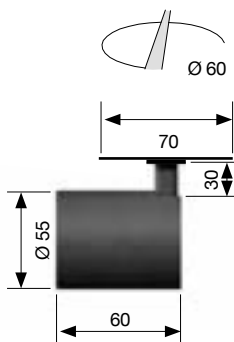
GUCCI

KENZO

COACH

GIVENCHY

GUCCI



Nota/Note  
 Ottiche intercambiabili  
 Exchangeable optics

# MUSE 55 LENS IN

FASCIO/BEAM/FAISCEAU/HAZ ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.  
 Projecteur LED orientable sur rail avec optiques échangeables.  
 Projector LED orientable de carril con ópticas intercambiables.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio in controsoffitto. Alimentazione esterna ON/OFF. A richiesta dimmerabile DALI (cod. DL).

Extruded aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) LED light source. Direct light emission. False ceiling mounting system. External electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium extrudé avec traitement époxy. Dissipateur en aluminium extrudé. Optique lenticulaire en polycarbonate à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST). Source lumineuse LED. Emission directe. Système de fixation en faux plafond. Alimentation ON/OFF externe. Sur demande: dimmable DALI (réf. DL).

Cuerpo de aluminio extruido con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica lenticular de policarbonato de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST). Fuente de iluminación LED. Emisión directa. Sistema de fijación para falso techo. Alimentación ON/OFF externa. A pedido: regulación DALI (cód. DL).

5Y WARRANTY 5% FAILURE RATE | 60.000 h LED LIFETIME L90B10 | 100.000 h LED LIFETIME L70B50 | RIPPLE FREE

Lumen	Watt	Lumen Watt Out	mA	Code Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1100	9	≤ 122	250	HRM6LI1	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	<b>ST:</b> fascio stretto narrow beam	-: ON/OFF  <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava  <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
1550	13	≤ 119	350	HRM6LI2		<b>MD:</b> fascio medio medium beam		
2150	18,5	≤ 116	500	HRM6LI3		<b>LA:</b> fascio largo wide beam		

A richiesta | On request

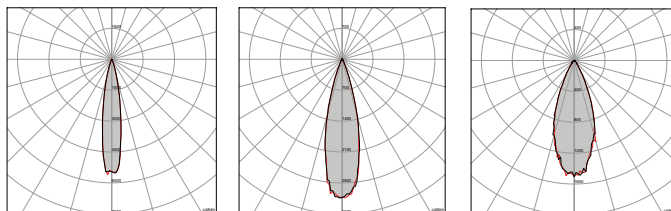
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90.  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90.  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

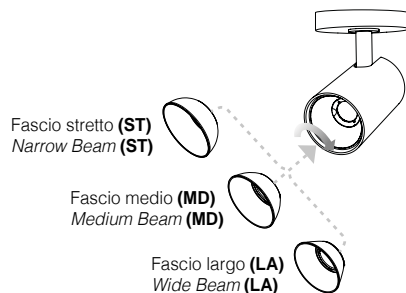
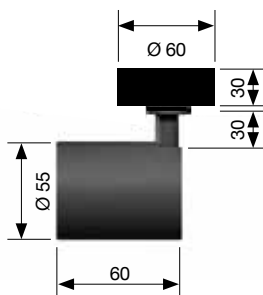
Ottica ST 12°

Ottica MD 25°

Ottica LA 38°



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.2	1	0.4	1	0.7
2	0.4	2	0.8	2	1.4
3	0.6	3	1.3	3	2.1
4	0.8	4	1.7	4	2.7
5	1.0	5	2.1	5	3.4



Nota/Note  
 Ottiche intercambiabili  
 Exchangeable optics

# MUSE 55 LENS UP

FASCIO/BEAM/FAISCEAU/HAZ ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.  
 Projecteur LED orientable sur rail avec optiques échangeables.  
 Projector LED orientable de carril con ópticas intercambiables.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a plafone. Alimentazione integrata nella basetta ON/OFF. A richiesta dimmerabile DALI (cod. DL), alimentatore esterno.

Extruded aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) LED light source. Direct light emission. Ceiling mounting system. Electronic driver built-in the mounting base ON/OFF. On request: dimmable DALI (code DL). External driver.

Corps en aluminium extrudé avec traitement époxy. Dissipateur en aluminium extrudé. Optique lenticulaire en polycarbonate à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST). Source lumineuse LED. Emission directe. Système de fixation au plafond. Alimentation ON/OFF intégrée dans la base. Sur demande: fimmable DALI (réf. DL), alimentateur externe.

Cuerpo de aluminio extruido con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica lenticular de policarbonato de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST). Fuente de iluminación LED. Emisión directa. Sistema de fijación para falso techo. Alimentación ON/OFF integrada en la placa. A pedido: regulación DALI (cód. DL), balastro externo

**5Y WARRANTY**  
 5% FAILURE RATE

**60.000 h**  
 LED LIFETIME L90B10

**100.000 h**  
 LED LIFETIME L70B50

**RIPPLE FREE**

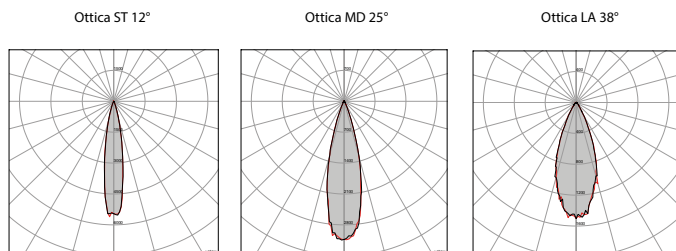
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1100	9	≤ 122	250	HRM6UP1	<b>WW: 2700</b> <b>W:3000</b> <b>X:3500</b> <b>N:4000</b>	<b>ST:</b> fascio stretto narrow beam <b>MD:</b> fascio medio medium beam <b>LA:</b> fascio largo wide beam	-: ON/OFF <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalio ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
1550	13	≤ 119	350	HRM6UP2				
2150	18,5	≤ 116	500	HRM6UP3				

CE, >90 CRI, 3SDCM, IP44, IK 07, 230 V, 50/60 Hz, 850°, DALI, RG 0, >80 CRI, >95 CRI, VIVID PLUS, VEG PLUS, WHITE PLUS, MEAT PLUS

A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.2	1	0.4	1	0.7
2	0.4	2	0.8	2	1.4
3	0.6	3	1.3	3	2.1
4	0.8	4	1.7	4	2.7
5	1.0	5	2.1	5	3.4



SOO TRACK

SOTTILE TRACK

MINI ALGEBRA TRACK

MINI ALGEBRA

Plafoniere LED lineari con attacco a binario per il retail.  
Performance illuminotecniche nettamente superiori all'attuale  
generazione di lampade LED.

*Linear ceiling mounted LED lighting fitting with track  
connection.*

*Lighting performance clearly superior to the current generation  
of LED lighting fittings.*

*Plafonniers linéaires LED avec système de fixation sur rail.  
Performance d'éclairage nettement supérieure à l'actuelle  
génération des appareils à LED.*

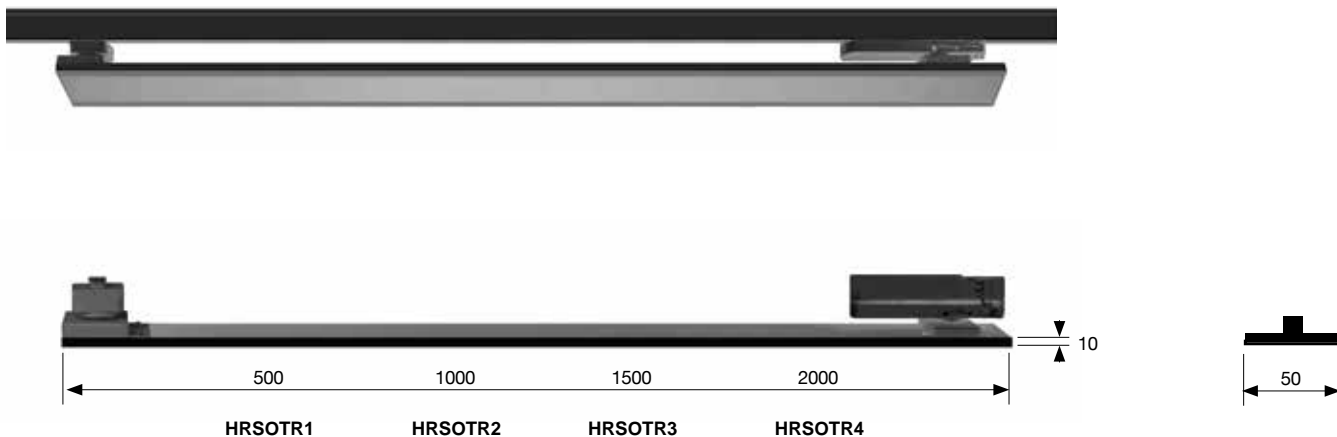
*Luminarias lineales LED con fijación a carril para el Retail.  
Rendimiento de iluminación mejor que los otros dispositivos LED  
del mercado actual.*

**SISTEMA LINEARE A BINARIO**

TRACK LINEAR SYSTEM  
SYSTÈME LINÉAIRE SUR RAIL  
SISTEMA LINEAL DE CARRIL







# SOO TRACK

## SCHERMO/DIFFUSER/DIFFUSEUR/DIFUSOR OP | MP

Sistema lineare a binario.  
Track linear system  
Système linéaire sur rail.  
Sistema lineal de carril.


Corpo in estruso di alluminio verniciato con polveri epossidiche previa fosfatazione. Ottiche in alluminio ad alto rendimento con funzione di dissipatore. Schermo in policarbonato opale (cod. OP) o microprismato (cod. MP). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con alimentazione integrata nell'adattatore ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Extruded aluminium body painted with epoxy powders after phosphating. High performance aluminium louvers with heatsink function. Opal (code OP) or microprismatic (code MP) polycarbonate diffuser. LED light source. Direct light emission. Track mounting system with built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium extrudé avec traitement époxy. Optique en aluminium haute performance avec fonction de dissipateur. Diffuseur en polycarbonate opal (réf. OP) ou microprismatique (réf. MP). Source lumineuse LED. Émission directe. Système de montage sur rail avec alimentation intégrée dans l'adaptateur ON/OFF. Sur demande: dimmable DALI (réf. DL).

Cuerpo de aluminio extruido con polvo epoxi previamente fosfatado. Óptica de aluminio de alto rendimiento con función de disipador. Difusor de policarbonato opal (cód. OP) o microprismático (cód. MP). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril con alimentación integrada en el adaptador ON/OFF. A pedido: regulación DALI (cód. DL).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1900	13	≤ 146	700	HRSOTR1	<b>WW: 2700</b> <b>W:3000</b> <b>X:3500</b> <b>N:4000</b>	<b>OP:</b> opale <i>opal</i> <b>MP:</b> microprismato <i>microprismatic</i>	-: ON/OFF  <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava  <b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
3800	26	≤ 146	700	HRSOTR2				
5700	39	≤ 146	700	HRSOTR3				
7600	52	≤ 146	700	HRSOTR4				



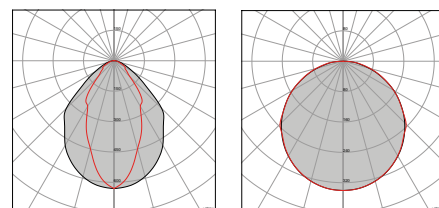
A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

Ottica MP 50°

Ottica OP 112°



H (m)	Ø (m)	H (m)	Ø (m)
1	1.0	1	1.0
2	2.0	2	2.0
3	2.8	3	2.8
4	4.0	4	4.0
5	5.0	5	5.0



## SOTTILE TRACK

FASCIO/BEAM/FAISCEAU/HAZ MD | LA | BT

Sistema lineare a binario.  
Track linear system  
Système linéaire sur rail.  
Sistema lineal de carril.

Corpo in lamiera pressopiegata verniciata con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in metacrilato lenticolare fascio largo (cod. LA) fascio medio (cod. MD) fascio doppio asimmetrico (cod. BT). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario (adattatore incluso). Alimentazione elettronica integrata nel corpo lampada ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Bent sheet metal body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Lenticular methacrylate louver wide beam (code LA) medium beam (code MD) asymmetric double beam (code BT). LED light source. Direct light emission. Track mounting system (adapter included). Built-in electronic driver in the body ON/OFF. On request: dimmable DALI (code DL).

Corps en tôle d'acier emboutie avec traitement époxy. Dissipateur thermique en aluminium extrudé. Optique lenticulaire en méthacrylate à faisceau large (réf. LA) faisceau moyen (réf. MD) double faisceau asymétrique (réf. BT). Source lumineuse LED. Émission directe. Système de fixation sur rail (adaptateur inclus). Alimentation électronique ON/OFF intégrée dans le corps de lampe. Sur demande: dimmable DALI (réf. DL).

Cuerpo de lámina de acero plegada a presión y recubierto con polvo epoxi previamente fosfatado. Disipador térmico de aluminio extruido. Óptica lenticular de metacrilato de haz amplio (cód. LA) haz medio (cód. MD) doble haz asimétrico (cód. BT). Emisión directa. Sistema de fijación con carril (adaptador incluido). Alimentación electrónica ON/OFF integrada en el cuerpo de la lámpara. A pedido: regulación DALI (cód. DL).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
3160	26,5	≤ 119	700	HRSTTR1	WW: 2700 W:3000 X:3500 N:4000	MD: fascio medio medium beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
6320	53	≤ 119	700	HRSTTR2		LA: fascio largo wide beam		
6320	53	≤ 119	700	HRSTTR3		BT: fascio doppio asimmetrico Asymmetric batwing beam		

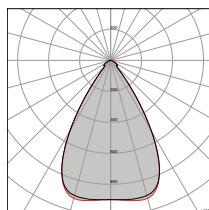


A richiesta | On request

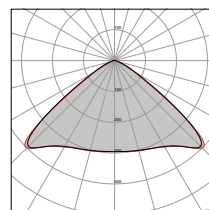
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

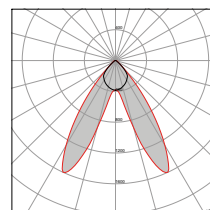
Ottica MD 60°



Ottica LA 110°



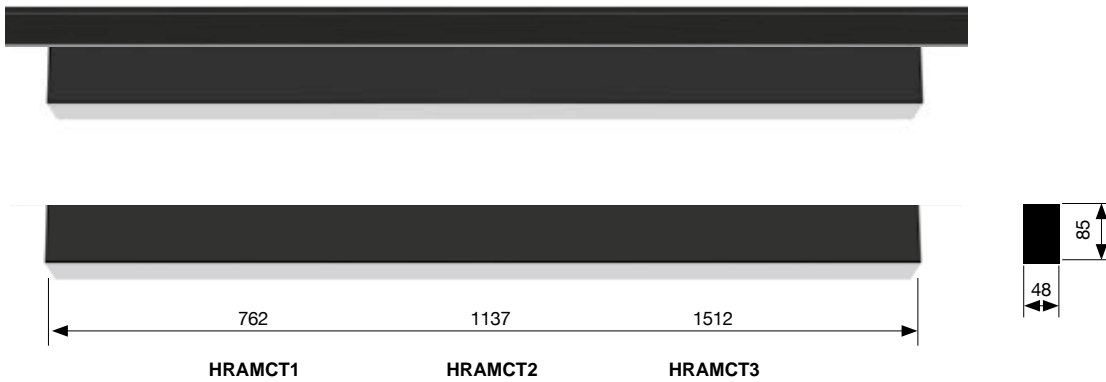
Ottica BT 25° € 22°+ 22°



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m) €
1	1.1	1	2.7	1	1
2	2.3	2	5.7	2	1.9
3	3.5	3	8.6	3	2.9
4	4.6	4	11.4	4	3.9
5	5.8	5	14	5	4.8







# MINI ALGEBRA TRACK

SCHERMO/DIFFUSER/DIFFUSEUR/DIFUSOR OP | MP

Sistema lineare a binario.  
Track linear system  
Système linéaire sur rail.  
Sistema lineal de carril.

Corpo in lamiera d'acciaio pressopiegata verniciata con polveri epossidiche previa fosfatazione. Ottiche in alluminio ad alto rendimento con funzione di dissipatore. Schermo in policarbonato opale (cod. OP) o microprismato (cod. MP). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con alimentazione integrata nel corpo lampada ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Bent sheet steel body painted with epoxy powders after phosphating. High performance aluminium louvers with heatsink function. Opal (code OP) or microprismatic (code MP) polycarbonate diffuser. LED light source. Direct light emission. Track mounting system (adapter included). Built-in electronic driver in the body ON/OFF. On request: dimmable DALI (code DL).

Corps en tôle d'acier emboutie avec traitement époxy. Optique en aluminium haute performance avec fonction de dissipateur. Diffuseur en polycarbonate opal (réf. OP) microprismatique (réf. MP). Embouts inclus. Source lumineuse LED. Emission directe. Système de fixation sur rail (adaptateur inclus). Alimentation électronique ON/OFF intégrée dans le corps de lampe. Sur demande: dimmable DALI (réf. DL).

Cuerpo de lámina de acero plegada a presión y recubierto con polvo epoxi previamente fosfatado. Óptica de aluminio de alto rendimiento con función de disipador. Difusor de policarbonato opal (cód. OP) o microprismático (cód. MP). Tapas de los extremos incluidos. Fuente de iluminación LED. Sistema de fijación con carril (adaptador incluido). Alimentación electrónica ON/OFF integrada en el cuerpo de la lámpara. A pedido: regulación DALI (cód. DL).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1540	14	≤ 110	500	<b>HRAMCT1</b>	<b>WW: 2700 W:3000 X:3500 N:4000</b>	<b>OP:</b> opale opal <b>MP:</b> microprismato microprismatic	<b>-:</b> ON/OFF <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
2310	21	≤ 110	700	<b>HRAMCT2</b>				
3080	28	≤ 110	800	<b>HRAMCT3</b>		<b>19 UGR</b>		



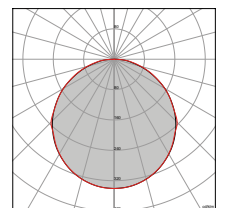
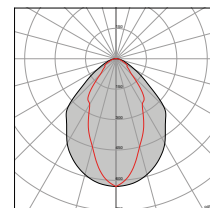
A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

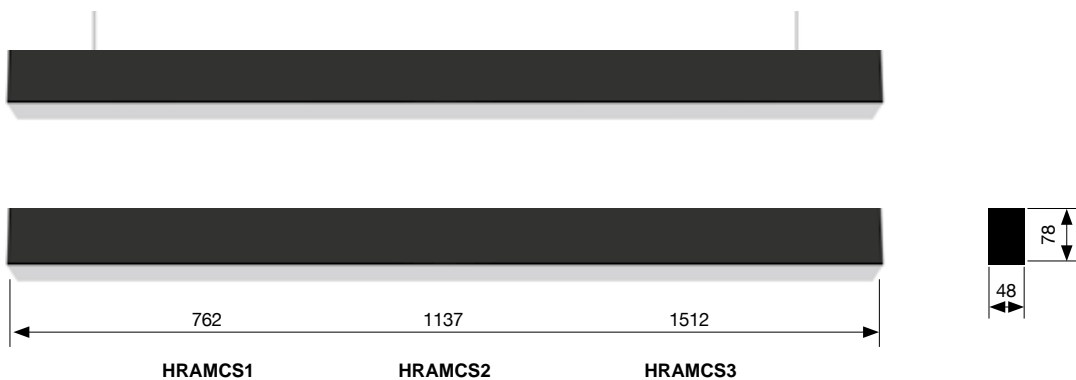
Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

Ottica MP 50°

Ottica OP 112°



H (m)	Ø (m)	H (m)	Ø (m)
1	1.0	1	1.0
2	2.0	2	2.0
3	2.8	3	2.8
4	4.0	4	4.0
5	5.0	5	5.0



# MINI ALGEBRA

SCHERMO/DIFFUSER/DIFFUSEUR/DIFUSOR OP | MP

Sistema lineare a binario.  
Track linear system  
Système linéaire sur rail.  
Sistema lineal de carril.

Corpo in lamiera d'acciaio pressopiegata verniciata con polveri epossidiche previa fosfatazione. Ottiche in alluminio ad alto rendimento con funzione di dissipatore. Schermo in policarbonato opale (cod. OP) o microprismato (cod. MP). Testate di chiusura incluse. Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a sospensione/plafone. Alimentazione integrata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Emergenza autonomia 1h/3h.

Bent sheet steel body painted with epoxy powders after phosphating. High performance aluminium louvers with heatsink function. Opal (code OP) or microprismatic polycarbonate diffuser (code MP). Endcovers included. LED light source. Direct light emission. Ceiling and suspension fixing system. Built-in electronic driver ON/OFF. On request: dimmable DALI (code DL). Emergency autonomy 1h/3h.

Corps en tôle d'acier emboutie avec traitement époxy. Optique en aluminium haute performance avec fonction de dissipateur. Diffuseur en polycarbonate opal (réf. OP) ou microprismatique (réf. MP). Embouts inclus. Source lumineuse LED. Emission directe. Système de fixation en suspension ou au plafond. Alimentation ON/OFF intégrée. Sur demande: dimmable DALI (réf. DL). Autonomie d'urgence 1h/3h.

Cuerpo de lámina de acero plegada a presión y recubierto con polvo epoxi previamente fosfatado. Óptica de aluminio de alto rendimiento con función de dissipador. Difusor de policarbonato opal (cód. OP) o microprismático (cód. MP). Tapas de los extremos incluidas. Fuente de iluminación LED. Sistema de fijación en suspensión o en techo. Alimentación ON/OFF integrada. A pedido: regulación DALI (cód. DL). Autonomía de emergencia 1h/3h.



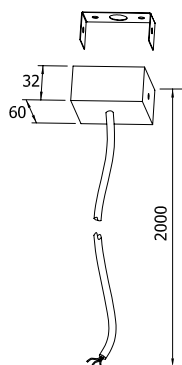
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1540	14	≤ 110	500	<b>HRAMCS1</b>	<b>WW: 2700</b> <b>W: 3000</b> <b>X: 3500</b> <b>N: 4000</b>	<b>OP:</b> opale <i>opal</i>  <b>MP:</b> microprismato <i>microprismatic</i>	-: ON/OFF  <b>DL:</b> DALI	<b>Standard:</b>  ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava  <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
2310	21	≤ 110	700	<b>HRAMCS2</b>				
3080	28	≤ 110	800	<b>HRAMCS3</b>				



A richiesta | On request

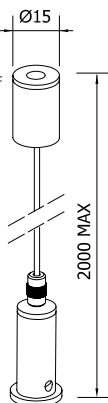
Temperatura ambiente min. - max.: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%,  
con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%,  
with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%



Kit rosone elettrificato completo di cavo trasparente L=2000 mm 3x0,75 mm<sup>2</sup>, per soluzioni ON/OFF  
**Codice KT10206**  
5x0,75 mm<sup>2</sup>, per soluzioni DALI  
**Codice KT10206/D**

Electrified ceiling rose complete with transparent cable L=2000 mm 3x0,75 mm<sup>2</sup>, for ON/OFF version  
**Code KT10206**  
5x0,75 mm<sup>2</sup>, for DALI version  
**Code KT10206/D**

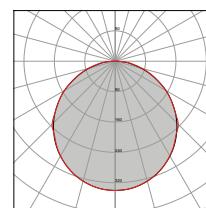
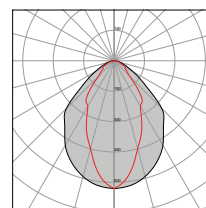


Kit sospensione: n. 2 cavi d'acciaio L=2000 mm n. 2 perni regolazione millimetrica n. 2 rosconi cilindrici  
**Codice KT10420**

Suspension kit: no. 2 steel cables L=2000 mm no. 2 precision adjustment pins no. 2 cylindrical ceiling roses  
**Codice KT10420**

Ottica MP 50°

Ottica OP 112°





ZETA MAXI IN

ZETA MAXI IN COLOR

ZETA MAXI

ZETA IN

ZETA IN DECO

ZETA

ZETA LENS

ZETA MINI IN

ZETA MINI

MINIMAG

UNO

UNO LENS

SII

ENNE

SPECCHIO

CENTOTTANTA

CENTOTTANTA IN

CENTOTTANTA IN COLOR

Apparecchi LED da incasso per il retail.

*Recessed LED downlights for retail.*

*Appareils encastrés LED pour le retail.*

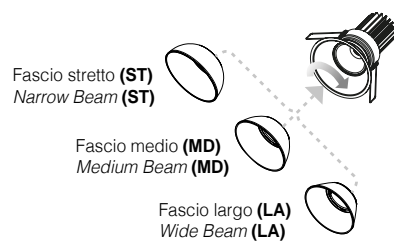
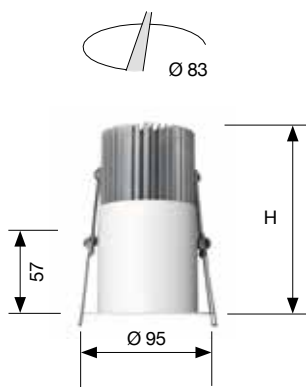
*Luminarias LED de empotrar para el Retail.*

#### **INCASSI DOWNLIGHT**

*RECESSED DOWNLIGHTS  
APPAREILS ENCASTRÉS LED  
LUMINARIAS LED DE EMPOTRAR*







Nota/Note  
Ottiche intercambiabili  
Exchangeable optics

- H 83 = 350 mA
- H 83 = 500 mA
- H 83 = 600 mA
- H 113 = 700 mA
- H 113 = 800 mA

## ZETA MAXI IN

FASCIO/BEAM/FAISCEAU/HAZ ST | MD | LA

Apparecchio LED da incasso con ottiche intercambiabili.  
Recessed LED downlight with exchangeable optics.  
Luminaire LED encastré avec optiques échangeables.  
Luminaria LED de empotrar con ópticas intercambiables.

Corpo in lamiera tornita verniciata con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD). Emergenza autonomia 1h/3h.

Turned sheet metal body painted with epoxy powder after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) elliptical beam (code EL). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps en tôle tournée avec traitement époxy. Dissipateur en aluminium extrudé. Optique lenticulaire en polycarbonate à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL). Spécifier la fonction PUSH-DIM (réf. PD). Autonomie d'urgence 1h/3h.

Cuerpo de chapa torneada y recubierto con polvo epoxi previamente fosfatado. Dissipador de aluminio extruido. Óptica de policarbonato lenticular de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz elíptico (cód. EL). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD). Autonomía de emergencia 1h/3h.



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1570	13	≤ 121	350	HRZMXI1	WW: 2700 W:3000 X:3500 N:4000	ST: fascio stretto narrow beam	-: ON/OFF DL: DALI	<b>Standard:</b> ● WI: White Irazu ● BLL: Black Lava <b>Su richiesta /On request:</b> ● SB: Silver Bombalai ● BL: Bronze Lario ● RR: Rust Rame ● BF: Beige Futura ● GK: Gold Karkar ● BT: Blue Telica
2150	18	≤ 120	500	HRZMXI2		MD: fascio medio medium beam		
2550	22	≤ 116	600	HRZMXI3		LA: fascio largo wide beam		
2950	26	≤ 114	700	HRZMXI4				
3350	30	≤ 112	800	HRZMXI5				



A richiesta | On request

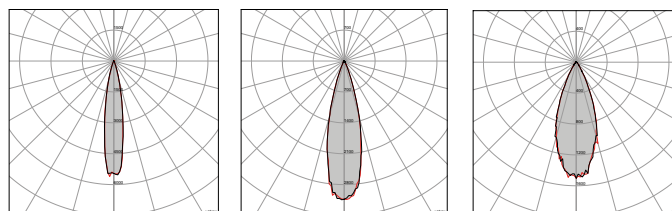
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

Ottica ST 12°

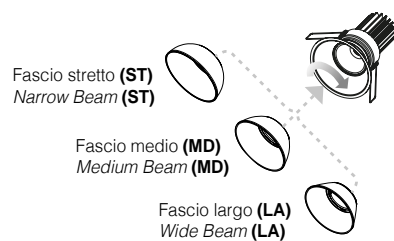
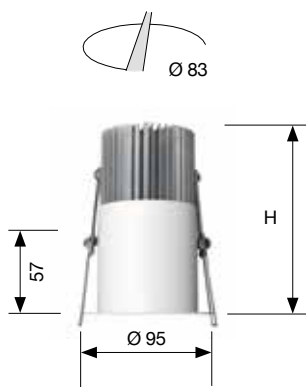
Ottica MD 25°

Ottica LA 38°



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.2	1	0.4	1	0.7
2	0.4	2	0.8	2	1.4
3	0.6	3	1.3	3	2.1
4	0.8	4	1.7	4	2.7
5	1.0	5	2.1	5	3.4





Nota/Note  
 Ottiche intercambiabili  
 Exchangeable optics

H 83 = 350 mA  
 H 83 = 500 mA  
 H 83 = 600 mA  
 H 113 = 700 mA  
 H 113 = 800 mA

# ZETA MAXI IN COLOR

FASCIO/BEAM/FAISCEAU/HAZ ST | MD | LA

Apparecchio LED da incasso con ottiche intercambiabili.  
 Recessed LED downlight with exchangeable optics.  
 Luminaire LED encastré avec optiques échangeables.  
 Luminaria LED de empotrar con ópticas intercambiables.

Corpo in lamiera tornita verniciata con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD). Emergenza autonomia 1h/3h.

Turned sheet metal body painted with epoxy powder after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) elliptical beam (code EL). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps en tôle tournée avec traitement époxy. Dissipateur en aluminium extrudé. Optique lenticulaire en polycarbonate à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL). Spécifier la fonction PUSH-DIM (réf. PD). Autonomie d'urgence 1h/3h.

Cuerpo de chapa torneada y recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica de policarbonato lenticular de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz elíptico (cód. EL). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD). Autonomía de emergencia 1h/3h.



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1570	13	≤ 121	350	HRZMXC1	WW: 2700 W:3000 X:3500 N:4000	ST: fascio stretto narrow beam	-: ON/OFF DL: DALI	Su richiesta / On request
2150	18	≤ 120	500	HRZMXC2		MD: fascio medio medium beam		
2550	22	≤ 116	600	HRZMXC3		LA: fascio largo wide beam		
2950	26	≤ 114	700	HRZMXC4				
3350	30	≤ 112	800	HRZMXC5				



A richiesta | On request

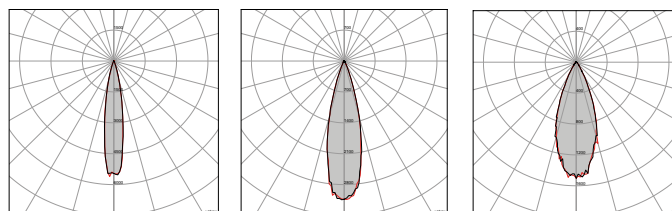
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

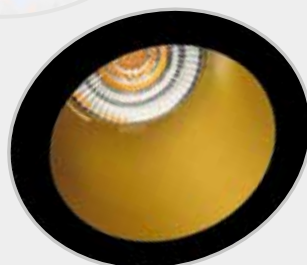
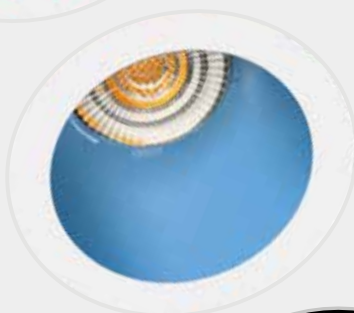
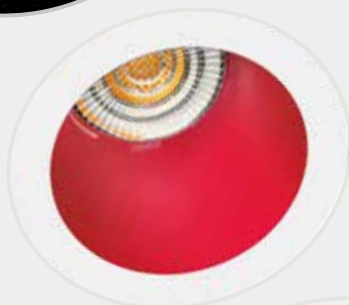
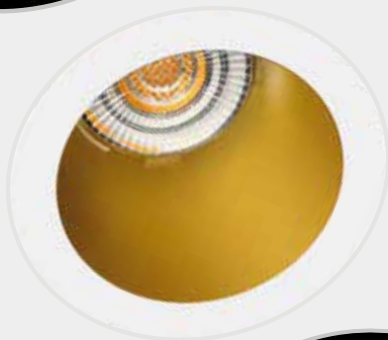
Ottica ST 12°

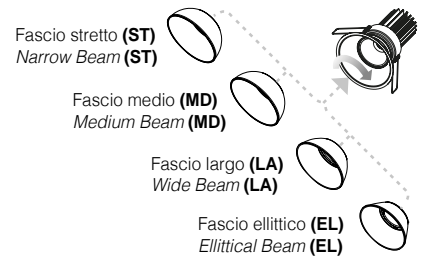
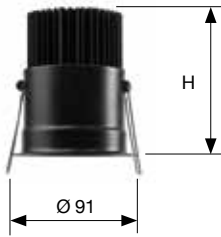
Ottica MD 25°

Ottica LA 38°



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.2	1	0.4	1	0.7
2	0.4	2	0.8	2	1.4
3	0.6	3	1.3	3	2.1
4	0.8	4	1.7	4	2.7
5	1.0	5	2.1	5	3.4





Nota/Note  
 Ottiche intercambiabili senza ausilio di utensili  
 Exchangeable optics without using of tools

H 83 = 350 mA  
 H 83 = 500 mA  
 H 83 = 600 mA  
 H 113 = 700 mA  
 H 113 = 800 mA

# ZETA MAXI

FASCIO/BEAM/FAISCEAU/HAZ ST | MD | LA | EL

Apparecchio LED da incasso con ottiche intercambiabili.  
 Recessed LED downlight with exchangeable optics.  
 Luminaires LED encastré avec optiques échangeables.  
 Luminaria LED de empotrar con ópticas intercambiables.

Corpo in lamiera tornita verniciata con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio ellittico (cod. EL). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim. (cod. PD). Emergenza autonomia 1h/3h.

Turned sheet metal body painted with epoxy powder after phosphating. Extruded aluminium heatsink. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) elliptical beam (code EL). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps en tôle tournée avec traitement époxy. Dissipateur en aluminium extrudé. Optique en polycarbonate métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau elliptique (réf. EL). Source lumineuse LED. Emission directe. Installation empotrable au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL). Spécifier la fonction PUSH-DIM (réf. PD). Autonomie d'urgence 1h/3h.

Cuerpo de chapa torneada y recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz elíptico (cód. EL). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD). Autonomía de emergencia 1h/3h.

5Y WARRANTY 5% FAILURE RATE | 60.000 h LED LIFETIME L90B10 | 100.000 h LED LIFETIME L70B50 | RIPPLE FREE

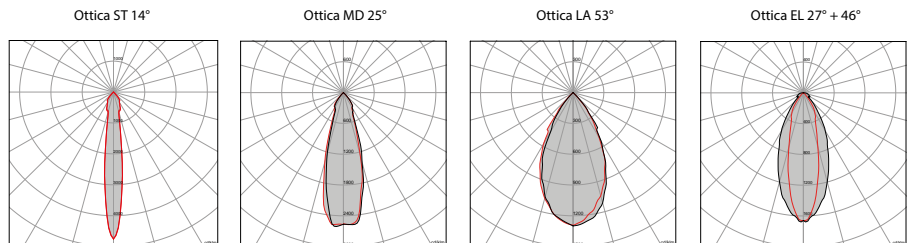
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1570	13	≤ 121	350	HRZMX1	WW: 2700 W:3000 X:3500 N:4000	ST: fascio stretto narrow beam	-: ON/OFF DL: DALI	Standard:
2150	18	≤ 120	500	HRZMX2		MD: fascio medio medium beam		● WI: White Irazu ● BLL: Black Lava
2550	22	≤ 116	600	HRZMX3		LA: fascio largo wide beam		Su richiesta / On request:
2950	26	≤ 114	700	HRZMX4		EL: fascio ellittico elliptical beam		● SB: Silver Bombalai ● BL: Bronze Lario ● RR: Rust Rame ● BF: Beige Futura ● GK: Gold Karkar ● BT: Blue Telica
3350	30	≤ 112	800	HRZMX5				

CE | >90 CRI | 3SDCM | IP44 EN 60529 | IK 07 EN 60068 | 230 V 50/60 Hz | 850° EN 60695 | DALI | RG 0 EN 62471 | DL DALI | PD PUSH DIM | DIM W | >80 CRI | >95 CRI | VIVID PLUS | VEG PLUS | WHITE PLUS | MEAT PLUS | EM

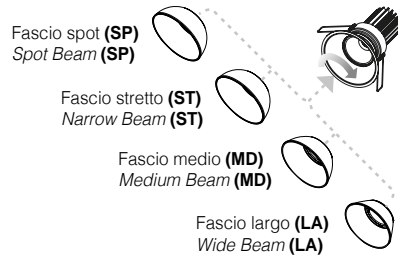
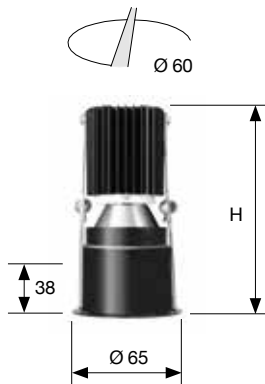
A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	1.0	1	0.8
2	0.5	2	0.9	2	2.0	2	1.6
3	1.7	3	1.3	3	2.8	3	2.5
4	1.0	4	1.8	4	4.0	4	3.3
5	1.2	5	2.2	5	5.0	5	4.2



**Nota/Note**  
Ottiche intercambiabili senza ausilio di utensili  
Exchangeable optics without using of tools

H 95 = 200 mA  
H 95 = 250 mA  
H 125 = 350 mA  
H 155 = 500 mA

## ZETA IN

FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Apparecchio LED da incasso con ottiche intercambiabili.  
Recessed LED downlight with exchangeable optics.  
Luminaire LED encastré avec optiques échangeables.  
Luminaria LED de empotrar con ópticas intercambiables.

Corpo in lamiera tornita verniciata con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD).

Turned sheet metal body painted with epoxy powder after phosphating. Extruded aluminium heatsink. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD).

Corps en tôle tournée avec traitement époxy. Dissipateur en aluminium extrudé. Optique en polycarbonate métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL). Spécifier la fonction PUSH-DIM (réf. PD).

Cuerpo de chapa torneada y recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
890	7	≤ 127	200	HRZ11	WW: 2700 W:3000 X:3500 N:4000	SP: fascio spot spot beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● WI: White Irazu ● BLL: Black Lava <b>Su richiesta /On request:</b> ● SB: Silver Bombalai ● BL: Bronze Lario ● RR: Rust Rame ● BF: Beige Futura ● GK: Gold Karkar ● BT: Blue Telica
1100	9	≤ 122	250	HRZ12		ST: fascio stretto narrow beam		
1570	13	≤ 121	350	HRZ13		MD: fascio medio medium beam		
2150	18	≤ 120	500	HRZ14		LA: fascio largo wide beam		

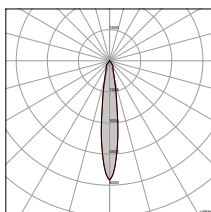


A richiesta | On request

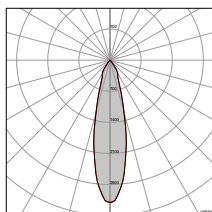
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

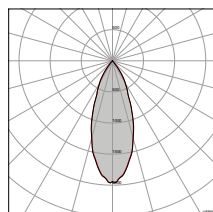
Ottica SP 15°



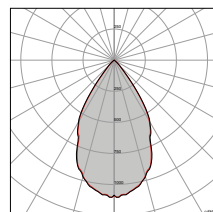
Ottica ST 25°



Ottica MD 40°



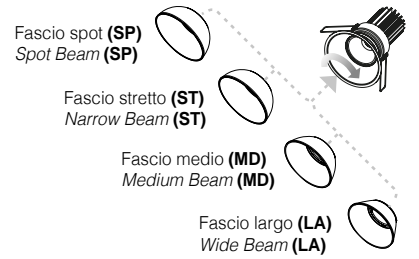
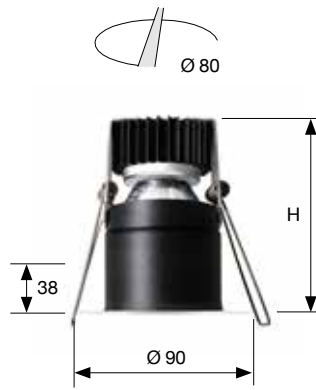
Ottica LA 60°



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	0.7	1	1.1
2	0.5	2	0.9	2	1.5	2	2.3
3	1.7	3	1.3	3	2.2	3	3.5
4	1.0	4	1.8	4	2.9	4	4.6
5	1.2	5	2.2	5	3.6	5	5.8







Nota/Note  
Ottiche intercambiabili senza ausilio di utensili  
Exchangeable optics without using of tools

H 100 = 200 mA  
H 95 = 250 mA  
H 125 = 350 mA

## ZETA IN DECO

FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Apparecchio LED da incasso con ottiche intercambiabili.  
Recessed LED downlight with exchangeable optics.  
Luminaire LED encastré avec optiques échangeables.  
Luminaria LED de empotrar con ópticas intercambiables.

Corpo in lamiera tornita verniciata con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD).

Turned sheet metal body painted with epoxy powder after phosphating. Extruded aluminium heatsink. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD).

Corps en tôle tournée avec traitement époxy. Dissipateur en aluminium extrudé. Optique en polycarbonate métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL). Spécifier la fonction PUSH-DIM (réf. PD).

Cuerpo de chapa torneada y recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD).



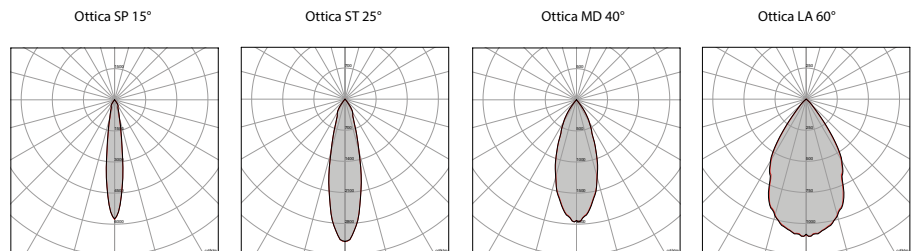
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
890	7	≤ 127	200	HRZD1	WW: 2700 W:3000 X:3500 N:4000	SP: fascio spot spot beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● WI: White Irazu ● BLL: Black Lava <b>Su richiesta /On request:</b> ● SB: Silver Bombalai ● BL: Bronze Lario ● RR: Rust Rame ● BF: Beige Futura ● GK: Gold Karkar ● BT: Blue Telica
1100	9	≤ 122	250	HRZD2		ST: fascio stretto narrow beam		
1570	13	≤ 121	350	HRZD3		MD: fascio medio medium beam  LA: fascio largo wide beam		



A richiesta | On request

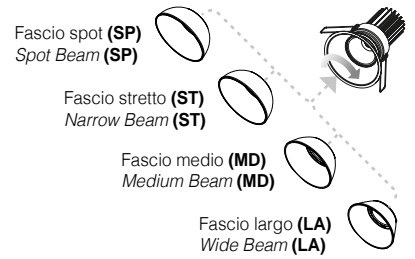
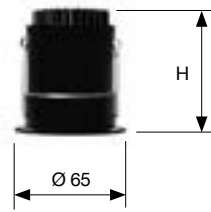
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	0.7	1	1.1
2	0.5	2	0.9	2	1.5	2	2.3
3	1.7	3	1.3	3	2.2	3	3.5
4	1.0	4	1.8	4	2.9	4	4.6
5	1.2	5	2.2	5	3.6	5	5.8





**Nota/Note**  
 Ottiche intercambiabili senza ausilio di utensili  
 Exchangeable optics without using of tools

H 75 = 200 mA  
 H 75 = 250 mA  
 H 105 = 350 mA

# ZETA

FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Apparecchio LED da incasso con ottiche intercambiabili.  
 Recessed LED downlight with exchangeable optics.  
 Luminaire LED encastré avec optiques échangeables.  
 Luminaria LED de empotrar con ópticas intercambiables.

Corpo in lamiera tornita verniciata con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD).

Turned sheet metal body painted with epoxy powder after phosphating. Extruded aluminium heatsink. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD).

Corps en tôle tournée avec traitement époxy. Dissipateur en aluminium extrudé. Optique en polycarbonate métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL). Spécifier la fonction PUSH-DIM (réf. PD).

Cuerpo de chapa torneada y recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
890	7	≤ 127	200	HRZ1	WW: 2700 W:3000 X:3500 N:4000	SP: fascio spot spot beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● <b>WL:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
1100	9	≤ 122	250	HRZ2		ST: fascio stretto narrow beam		
1570	13	≤ 129	350	HRZ3		MD: fascio medio medium beam  LA: fascio largo wide beam		

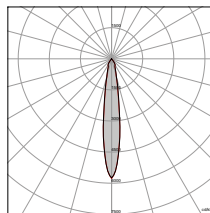


A richiesta | On request

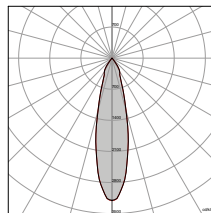
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

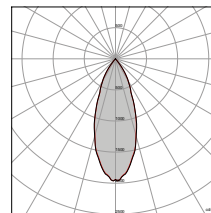
Ottica SP 15°



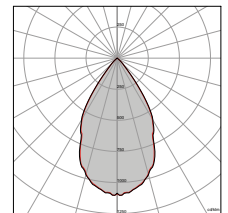
Ottica ST 25°



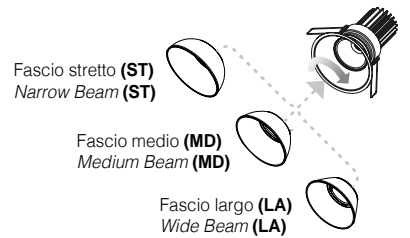
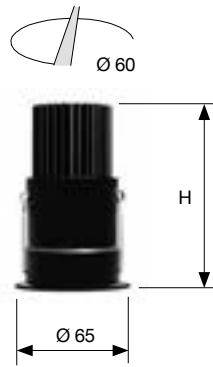
Ottica MD 40°



Ottica LA 60°



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	0.7	1	1.1
2	0.5	2	0.9	2	1.5	2	2.3
3	1.7	3	1.3	3	2.2	3	3.5
4	1.0	4	1.8	4	2.9	4	4.6
5	1.2	5	2.2	5	3.6	5	5.8



Nota/Note  
 Ottiche intercambiabili  
 Exchangeable optics

H 75 = 200 mA  
 H 75 = 250 mA  
 H 105 = 350 mA

## ZETA LENS

FASCIO/BEAM/FAISCEAU/HAZ ST | MD | LA

Apparecchio LED da incasso con ottiche intercambiabili.  
 Recessed LED downlight with exchangeable optics.  
 Luminare LED encastré avec optiques échangeables.  
 Luminaria LED de empotrar con ópticas intercambiables.

Corpo in lamiera tornita verniciata con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD).

Turned sheet metal body painted with epoxy powder after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD).

Corps en tôle tournée avec traitement époxy. Dissipateur en aluminium extrudé. Optique lenticulaire en polycarbonate à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL). Spécifier la fonction PUSH-DIM (réf. PD).

Cuerpo de chapa torneada y recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica lenticular de policarbonato de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
890	7	≤ 127	200	HRZL1	WW: 2700 W: 3000 X: 3500 N: 4000	ST: fascio stretto narrow beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava  <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
1100	9	≤ 122	250	HRZL2		MD: fascio medio medium beam		
1570	13	≤ 129	350	HRZL3		LA: fascio largo wide beam		



A richiesta | On request

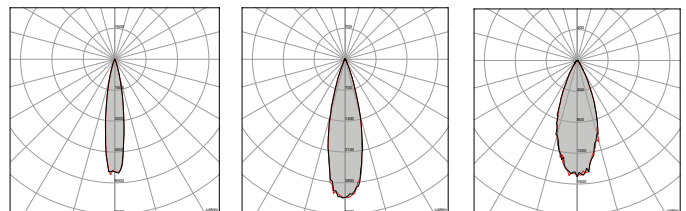
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90.  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90.  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

Ottica ST 12°

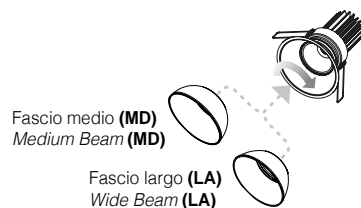
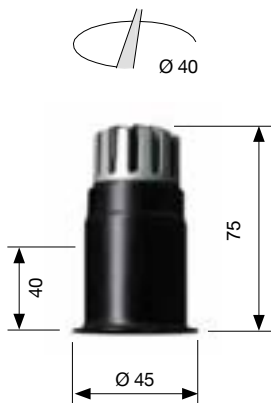
Ottica MD 25°

Ottica LA 38°



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.2	1	0.4	1	0.7
2	0.4	2	0.8	2	1.4
3	0.6	3	1.3	3	2.1
4	0.8	4	1.7	4	2.7
5	1.0	5	2.1	5	3.4





# ZETA MINI IN

## FASCIO/BEAM/FAISCEAU/HAZ MD | LA

Apparecchio LED da incasso con ottiche intercambiabili.  
 Recessed LED downlight with exchangeable optics.  
 Luminaire LED encastré avec optiques échangeables.  
 Luminaria LED de empotrar con ópticas intercambiables.

Corpo in lamiera tornita verniciata con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD).

Turned sheet metal body painted with epoxy powder after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louvre wide beam (code LA) medium beam (code MD). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD).

Corps en tôle tournée avec traitement époxy. Dissipateur en aluminium extrudé. Optique en polycarbonate lenticulaire à faisceau large (réf. LA) faisceau moyen (réf. MD). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL). Spécifier la fonction PUSH-DIM (réf. PD).

Cuerpo de chapa torneada y recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica de policarbonato lenticular de haz amplio (cód. LA) haz medio (cód. MD). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
620	6,5	≤ 96	180	HRZMII1	WW: 2700 W:3000 N:4000	MD: fascio medio medium beam LA: fascio largo wide beam	:- ON/OFF DL: DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica



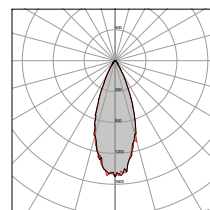
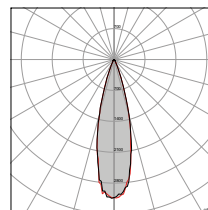
A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

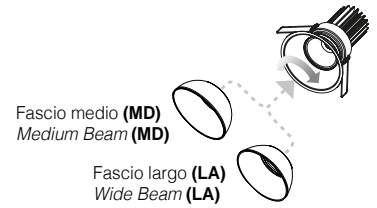
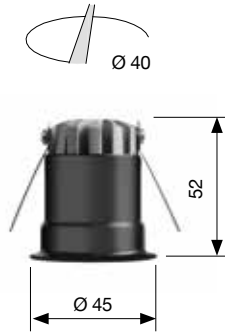
Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

Ottica MD 24°

Ottica LA 36°



H (m)	Ø (m)	H (m)	Ø (m)
1	0.4	1	0.7
2	0.8	2	1.4
3	1.3	3	2.1
4	1.7	4	2.7
5	2.1	5	3.4



# ZETA MINI

## FASCIO/BEAM/FAISCEAU/HAZ MD | LA

Apparecchio LED da incasso con ottiche intercambiabili.  
 Recessed LED downlight with exchangeable optics.  
 Luminaire LED encastré avec optiques échangeables.  
 Luminaria LED de empotrar con ópticas intercambiables.

Corpo in lamiera tornita verniciata con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD).

Turned sheet metal body painted with epoxy powder after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louver wide beam (code LA) medium beam (code MD). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD).

Corps en tôle tournée avec traitement époxy. Dissipateur en aluminium extrudé. Optique en polycarbonate lenticulaire à faisceau large (réf. LA) faisceau moyen (réf. MD). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL). Spécifier la fonction PUSH-DIM (réf. PD).

Cuerpo de chapa torneada y recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica de policarbonato lenticular de haz amplio (cód. LA) haz medio (cód. MD). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
620	6,5	≤ 96	180	HRZMI1	WW: 2700 W:3000 N:4000	MD: fascio medio medium beam LA: fascio largo wide beam	-: ON/OFF DL: DALI	<b>Standard:</b> ● WI: White Irazu ● BLL: Black Lava <b>Su richiesta / On request:</b> ● SB: Silver Bombalai ● BL: Bronze Lario ● RR: Rust Rame ● BF: Beige Futura ● GK: Gold Karkar ● BT: Blue Telica



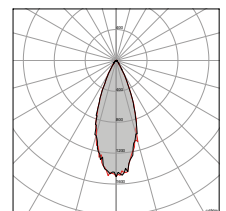
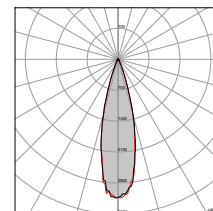
A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

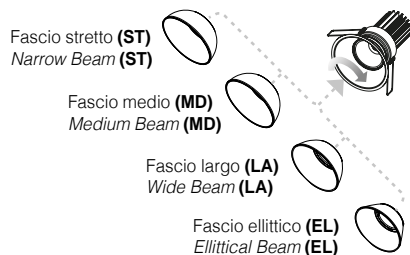
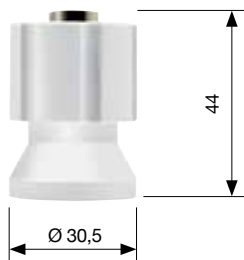
Ottica MD 24°

Ottica LA 36°



H (m)	Ø (m)	H (m)	Ø (m)
1	0.4	1	0.7
2	0.8	2	1.4
3	1.3	3	2.1
4	1.7	4	2.7
5	2.1	5	3.4





# MINIMAG

FASCIO/BEAM/FAISCEAU/HAZ ST | MD | LA | EL

Apparecchio LED da incasso.

Recessed LED downlight.

Luminaire LED encastré.

Luminaria LED de empotrar.

Corpo in estruso d'alluminio lavorato dal pieno con funzione di dissipatore di calore verniciato con polveri epossidiche previa fosfatazione. Ottica in policarbonato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a incasso tramite accessorio B o accessorio R. Alimentazione esterna remota da ordinare separatamente.

Extruded aluminium body machined from solid, with heatsink function, painted with epoxy powders after phosphating. Polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Recessed mounting system using accessory B or R. External remote power supply to be ordered separately.

Corps en aluminium extrudé d'une seule pièce avec fonction de dissipateur de chaleur peint avec poudre époxy après phosphatation. Optique en polycarbonate métallisé faisceau large 60° (réf. LA) faisceau moyen 35° (réf. MD) faisceau étroit 16° (réf. ST) faisceau elliptique 35x15° (réf. EL). Source de lumière LED. Émission directe. Système de fixation sur rail. Avec alimentation électronique intégrée ON/OFF. Sur demande dimmable DALI (réf. DL).

Cuerpo de aluminio extruido mecanizado sólido con función de disipador y recubierto con polvo epoxi previamente fosfatado. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST), haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Sistema de fijación con carril con alimentación CAE integrada en el adaptador. Bajo pedido: regulable DALI (cód. DL).

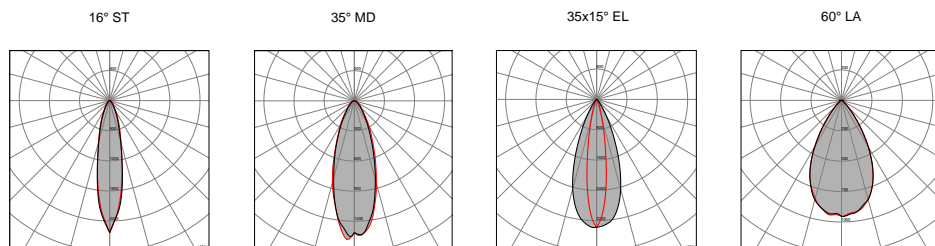


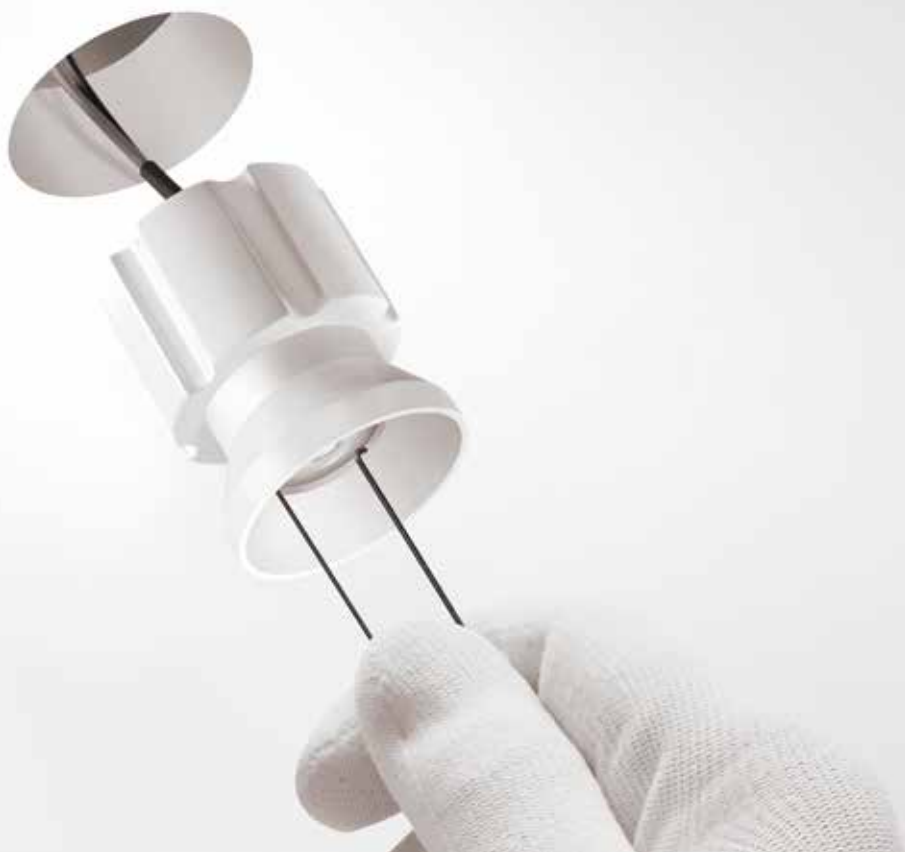
Lumen	Watt	Lumen Watt Out	mA Volt	Codice Code	K	Fascio Beam	Colore Colour	
<b>Collegamento in serie</b> In series connection								
210	1,9	≤ 111	700	<b>HRMM70</b>	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	<b>ST:</b> fascio stretto narrow beam  <b>MD:</b> fascio medio medium beam  <b>EL:</b> fascio ellittico elliptical beam  <b>LA:</b> fascio largo wide beam	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava  <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica	
<b>Collegamento parallelo</b> Shunt connection								
210	1,9	≤ 111	24	<b>HRMM24</b>				



Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%





## ALIMENTATORI / POWER SUPPLIES / ALIMENTATIONS ÉLECTRIQUES / FUENTES DE ALIMENTACIÓN

Alimentatore remoto da alloggiare in cassetta di derivazione o controsoffitto ispezionabile.

Remote power supply in a separate junction box or in an inspectable false ceiling.

Driver déporté à installer dans une boîte de dérivation, ou faux plafond inspectable.

Fuente de alimentación remota en caja exterior o en techo inspeccionable.

N° minimag	Watt	mA	Dimensioni Dimension	Type	Codice Code	N° minimag	Watt	Vdc	Dimensioni Dimension	Type	Codice Code
1	3	700	26x37x43		<b>KTHFL1MMC7</b>	1-20	60	24	16x30x298		<b>KTHFL2460VMM</b>
2-4	10	700	19x34x115		<b>KTHFL4MMC7</b>	1-5	13	24	2211x115		<b>KTHFL2413VMM</b>
5-12	30	700	22x44x147		<b>KTHFL12MMC7</b>						

## ACCESSORI / ACCESSORIES / ACCESSOIRES / ACCESORIOS

**B** **HRMTB1**

Standard:

- **WI:** White Irazu
- **BLL:** Black Lava

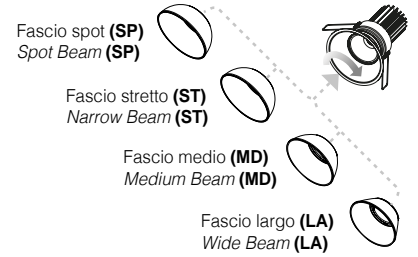
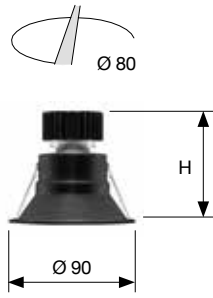
Su richiesta / On request:

- **SB:** Silver Bombalai
- **BL:** Bronze Lario
- **RR:** Rust Rame
- **BF:** Beige Futura
- **GK:** Gold Karkar
- **BT:** Blue Telica

**R** **HRMTR1**    **HRMTR2**    **HRMTR3**    **HRMTR4**

● Zincato  
Galvanized  
Galvanisé  
Galvanized





H 85 = 200 mA  
 H 85 = 250 mA  
 H 105 = 350 mA  
 H 145 = 500 mA

**Nota/Note**  
 Ottiche intercambiabili senza ausilio di utensili  
 Exchangeable optics without using of tools

# UNO

FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Apparecchio LED da incasso con ottiche intercambiabili.  
 Recessed LED downlight with exchangeable optics.  
 Luminaire LED encastré avec optiques échangeables.  
 Luminaria LED de empotrar con ópticas intercambiables.

Corpo in lamiera tornita verniciata con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD). Emergenza autonomia 1h/3h.

Turned sheet metal body painted with epoxy powder after phosphating. Extruded aluminium heatsink. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps en tôle tournée avec traitement époxy. Dissipateur en aluminium extrudé. Optique en polycarbonate métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL). Spécifier la fonction PUSH-DIM (réf. DL). Autonomie d'urgence 1h/3h.

Cuerpo de chapa torneada y recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD). Autonomía de emergencia 1h/3h.



Lumen	Watt	Lumen Watt Out	mA	Code Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
890	7	≤ 127	200	<b>HRUN1</b>	<b>WW: 2700</b> <b>W:3000</b> <b>X:3500</b> <b>N:4000</b>	<b>SP:</b> fascio spot spot beam	<b>-:</b> ON/OFF  <b>DL:</b> DALI	<b>Standard:</b> ● <b>W1:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
1100	9	≤ 122	250	<b>HRUN2</b>		<b>ST:</b> fascio stretto narrow beam		
1570	13	≤ 121	350	<b>HRUN3</b>		<b>MD:</b> fascio medio medium beam		
2150	18	≤ 120	500	<b>HRUN4</b>		<b>LA:</b> fascio largo wide beam		



A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

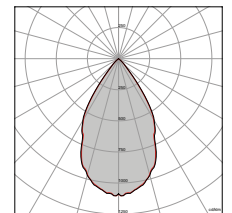
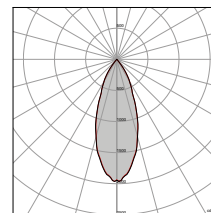
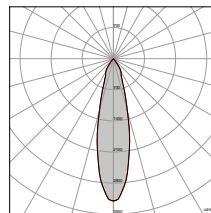
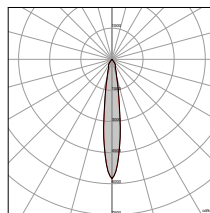
Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

Ottica SP 15°

Ottica ST 25°

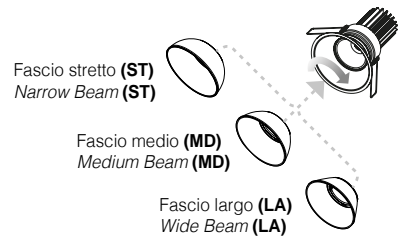
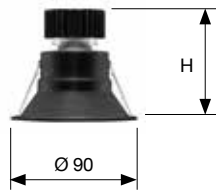
Ottica MD 40°

Ottica LA 60°



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	0.7	1	1.1
2	0.5	2	0.9	2	1.5	2	2.3
3	1.7	3	1.3	3	2.2	3	3.5
4	1.0	4	1.8	4	2.9	4	4.6
5	1.2	5	2.2	5	3.6	5	5.8





Nota/Note  
 Ottiche intercambiabili  
 Exchangeable optics

- H 95 = 200 mA
- H 95 = 250 mA
- H 125 = 350 mA
- H 155 = 500 mA

# UNO LENS

FASCIO/BEAM/FAISCEAU/HAZ ST | MD | LA

Apparecchio LED da incasso con ottiche intercambiabili.  
 Recessed LED downlight with exchangeable optics.  
 Luminaria LED encastré avec optiques échangeables.  
 Luminaria LED de empotrar con ópticas intercambiables.

Corpo in lamiera tornita verniciata con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD). Emergenza autonomia 1h/3h.

Turned sheet metal body painted with epoxy powder after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps en tôle tournée avec traitement époxy. Dissipateur en aluminium extrudé. Optique lenticulaire en polycarbonate à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL). Spécifier la fonction PUSH-DIM (réf. PD). Autonomie d'urgence 1h/3h.

Cuerpo de chapa torneada y recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica lenticular de policarbonato de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD). Autonomía de emergencia 1h/3h.

5Y WARRANTY 5% FAILURE RATE
60.000 h LED LFP7MHL70B10
100.000 h LED LFP7MHL70B50
 RIPPLE FREE

Lumen	Watt	Lumen Watt Out	mA	Code Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
890	7	≤ 127	200	HRUNL1	<b>WW: 2700</b> <b>W:3000</b> <b>X:3500</b> <b>N:4000</b>	<b>ST:</b> fascio stretto <i>narrow beam</i>  <b>MD:</b> fascio medio <i>medium beam</i>  <b>LA:</b> fascio largo <i>wide beam</i>	-: ON/OFF  <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava  <b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
1100	9	≤ 122	250	HRUNL2				
1550	13	≤ 119	350	HRUNL3				
2150	18	≤ 120	500	HRUNL4				

CE
EMC
>90 CRI
3SDCM
IP44 EN 60529
IK 07 EN 60068
230 V 2014/25/UE
50/60 Hz
850° EN 60695
LED
RG 0 EN 62471
DL DALI
PD PUSH DIM
DIM W
>80 CRI
>95 CRI
VIVID PLUS
VEG PLUS
WHITE PLUS
MEAT PLUS
EM

A richiesta | On request

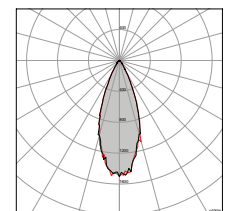
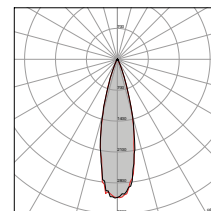
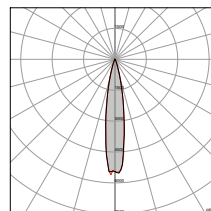
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

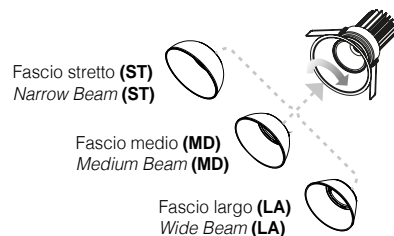
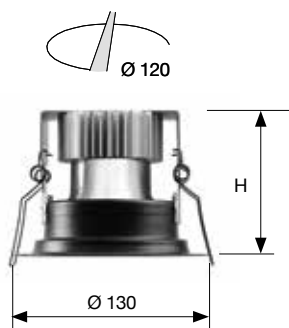
Ottica ST 12°

Ottica MD 25°

Ottica LA 38°



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.2	1	0.4	1	0.7
2	0.4	2	0.8	2	1.4
3	0.6	3	1.3	3	2.1
4	0.8	4	1.7	4	2.7
5	1.0	5	2.1	5	3.4



Nota/Note  
 Ottiche intercambiabili  
 Exchangeable optics

H 95 = 500 mA  
 H 95 = 600 mA  
 H 125 = 700 mA  
 H 125 = 800 mA

## SII

### FASCIO/BEAM/FAISCEAU/HAZ ST | MD | LA

Apparecchio LED da incasso con ottiche intercambiabili.  
 Recessed LED downlight with exchangeable optics.  
 Luminaire LED encastré avec optiques échangeables.  
 Luminaria LED de empotrar con ópticas intercambiables.

Corpo in lamiera tornita verniciata con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD). Emergenza autonomia 1h/3h.

Turned sheet metal body painted with epoxy powder after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps en tôle tournée avec traitement époxy. Dissipateur en aluminium extrudé. Optique lenticulaire à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST). Source lumineuse LED. Emission directe. Fixation à encastrément au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL). Spécifier la fonction PUSH-DIM (réf. PD). Autonomie d'urgence 1h/3h.

Cuerpo de chapa torneada y recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica lenticular de policarbonato de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD). Autonomía de emergencia 1h/3h.



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2150	18	≤ 120	500	HRSI1	WW: 2700 W:3000 X:3500 N:4000	ST: fascio stretto narrow beam	-: ON/OFF DL: DALI	<b>Standard:</b> ● WI: White Irazu ● BLL: Black Lava <b>Su richiesta /On request:</b> ● SB: Silver Bombalai ● BL: Bronze Lario ● RR: Rust Rame ● BF: Beige Futura ● GK: Gold Karkar ● BT: Blue Telica
2550	22	≤ 116	600	HRSI2		MD: fascio medio medium beam		
2950	26	≤ 114	700	HRSI3		LA: fascio largo wide beam		
3350	30	≤ 112	800	HRSI4				

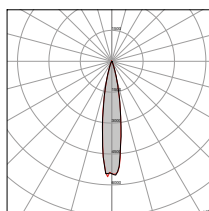


A richiesta | On request

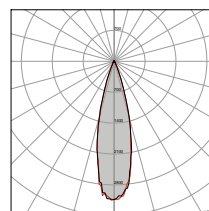
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

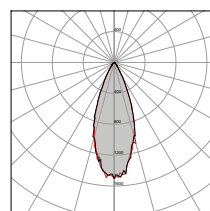
Ottica ST 12°



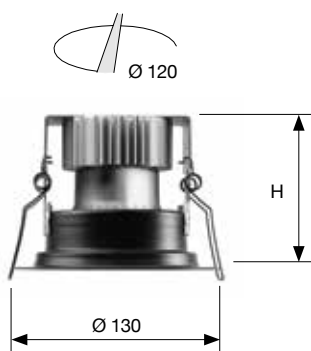
Ottica MD 25°



Ottica LA 38°



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.2	1	0.4	1	0.7
2	0.4	2	0.8	2	1.4
3	0.6	3	1.3	3	2.1
4	0.8	4	1.7	4	2.7
5	1.0	5	2.1	5	3.4



Fascio stretto (ST)  
Narrow Beam (ST)

Fascio medio (MD)  
Medium Beam (MD)

Fascio largo (LA)  
Wide Beam (LA)

Nota/Note  
Ottiche intercambiabili  
Exchangeable optics

H 95 = 500 mA  
H 95 = 600 mA  
H 125 = 700 mA  
H 125 = 800 mA

## ENNE

### FASCIO/BEAM/FAISCEAU/HAZ ST | MD | LA

Apparecchio LED da incasso con ottiche intercambiabili.  
Recessed LED downlight with exchangeable optics.

Luminaire LED encastré avec optiques échangeables.  
Luminaria LED de empotrar con ópticas intercambiables.

Corpo in lamiera tornita verniciata con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD). Emergenza autonomia 1h/3h.

Turned sheet metal body painted with epoxy powder after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps en tôle tournée avec traitement époxy. Dissipateur en aluminium extrudé. Optique lenticulaire à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL). Spécifier la fonction PUSH-DIM (réf. PD). Autonomie d'urgence 1h/3h.

Cuerpo de chapa torneada y recubierto con polvo epoxi previamente fosfatado. Dissipador de aluminio extruido. Óptica lenticular de policarbonato de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD). Autonomía de emergencia 1h/3h.



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2150	18	≤ 120	500	<b>HREN1</b>	<b>WW: 2700</b> <b>W: 3000</b> <b>X: 3500</b> <b>N: 4000</b>	<b>ST:</b> fascio stretto narrow beam	-: ON/OFF  <b>DL:</b> DALI	<b>Standard:</b>
2550	22	≤ 116	600	<b>HREN2</b>		<b>MD:</b> fascio medio medium beam		● <b>WL:</b> White Irazu ● <b>BLL:</b> Black Lava
2950	26	≤ 114	700	<b>HREN3</b>		<b>LA:</b> fascio largo wide beam		<b>Su richiesta / On request:</b>
3350	30	≤ 112	800	<b>HREN4</b>				● <b>SB:</b> Silver Bombalari ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica



A richiesta | On request

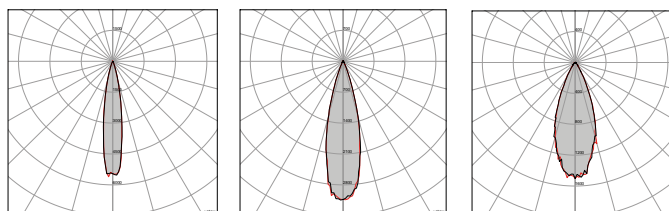
Temperatura ambiente min. - max.: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

Ottica ST 12°

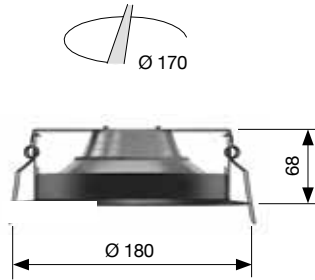
Ottica MD 25°

Ottica LA 38°



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.2	1	0.4	1	0.7
2	0.4	2	0.8	2	1.4
3	0.6	3	1.3	3	2.1
4	0.8	4	1.7	4	2.7
5	1.0	5	2.1	5	3.4





# SPECCHIO

## FASCIO/BEAM/FAISCEAU/HAZ LA

Apparecchio LED da incasso con ottica speculare.  
 Recessed LED downlight with specular optics.  
 Luminare LED encastré avec optiques spéculaire.  
 Luminaria LED de empotrar con ópticas especular.

Corpo in lamiera tornita verniciata con polveri epossidiche previa fosfatazione. Riflettore in AP speculare con funzione di dissipatore. Diffusore in policarbonato opale fascio largo (cod. LA). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD). Emergenza autonomia 1h/3h.

Turned sheet metal body painted with epoxy powder after phosphating. AP specular reflector with heatsink function. Opal polycarbonate diffuser wide beam (code LA). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps en tôle tournée avec traitement époxy. Réflecteur en AP spéculaire avec une fonction de dissipateur. Diffuseur en polycarbonate opal à faisceau large (réf. LA). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL). Spécifier la fonction PUSH-DIM (réf. PD). Autonomie d'urgence 1h/3h.

Cuerpo de chapa torneada y recubierto con polvo epoxi previamente fosfatado. Reflector en AP especular con función de disipador. Difusor de policarbonato opal de haz amplio (cód. LA). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD). Autonomía de emergencia 1h/3h.



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2150	18	≤ 120	500	HRSP1	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	<b>LA:</b> fascio largo wide beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava
2550	22	≤ 116	600	HRSP2				<b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
2950	26	≤ 114	700	HRSP3				

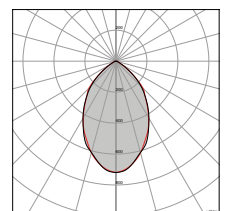


A richiesta | On request

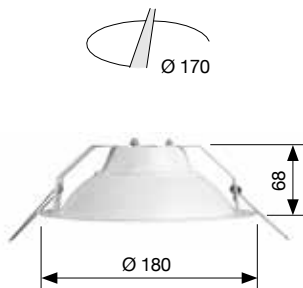
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

Ottica LA 70°



H (m)	Ø (m)
1	1.4
2	2.8
3	4.2
4	5.6
5	7.0



# CENTOTTANTA

FASCIO/BEAM/FAISCEAU/HAZ LA

Apparecchio LED da incasso.  
Recessed LED downlight.  
Luminaire LED encastré.  
Luminaria LED de empotrar.

Corpo in lamiera tornita verniciata con polveri epossidiche bianche previa fosfatazione con funzione di dissipatore. Diffusore in policarbonato opale fascio largo (cod. LA). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD). Emergenza autonomia 1h/3h.

Turned sheet metal body painted with white epoxy powder after phosphating with heatsink function. Opal polycarbonate diffuser wide beam (code LA). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps en tôle tournée avec traitement époxy blanc. Diffuseur en polycarbonate opal à faisceau large (réf. LA). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL). Spécifier la fonction PUSH-DIM (réf. PD). Autonomie d'urgence 1h/3h.

Cuerpo de chapa torneada y recubierto con polvo epoxi blanco previamente fosfatado. Difusor de policarbonato opal de haz amplio (cód. LA). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD). Autonomía de emergencia 1h/3h.



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2150	18	≤ 120	500	<b>HR1801</b>	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	<b>LA:</b> fascio largo <i>wide beam</i>	-: ON/OFF  <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava
2550	22	≤ 116	<b>HR1802</b>	<b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica				
2950	26	≤ 114	<b>HR1803</b>					

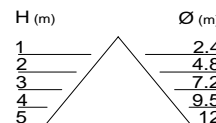
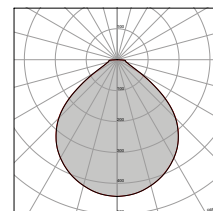


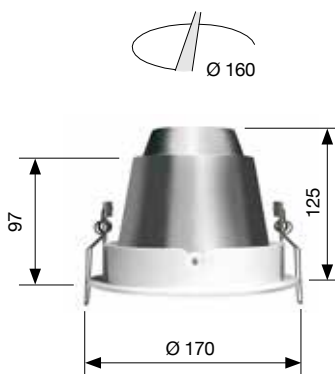
A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

Ottica LA 100°





# CENTOSETTANTA IN

FASCIO/BEAM/FAISCEAU/HAZ LA

Apparecchio LED da incasso.  
Recessed LED downlight.  
Luminaire LED encastré.  
Luminaria LED de empotrar.



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2150	18	≤ 120	500	<b>HR17101</b>	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	<b>LA:</b> fascio largo <i>wide beam</i>	-: ON/OFF  <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava
2550	22	≤ 116	600	<b>HR17102</b>				<b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
2950	26	≤ 114	700	<b>HR17103</b>				

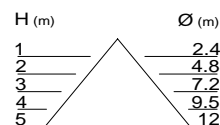
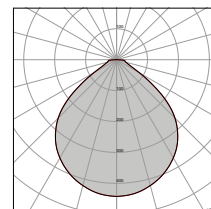


A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

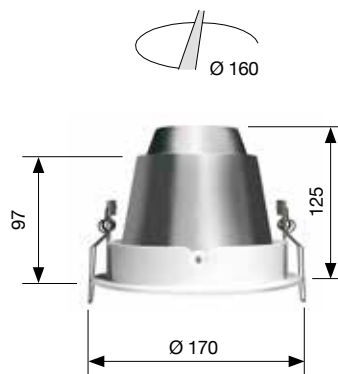
Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

Ottica LA 100°









# CENTOSETTANTA IN COLOR

FASCIO/BEAM/FAISCEAU/HAZ LA

Apparecchio LED da incasso.  
Recessed LED downlight.  
Luminaire LED encastré.  
Luminaria LED de empotrar.

Corpo in lamiera tornita verniciata con polveri epossidiche previa fosfatatura con funzione di dissipatore. Diffusore in policarbonato opale fascio largo (cod. LA). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD). Emergenza autonomia 1h/3h.

Turned sheet metal body painted with epoxy powder after phosphating with heatsink function. Opal polycarbonate diffuser wide beam (code LA). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps en tôle tournée avec traitement époxy. Diffuseur en polycarbonate opal à faisceau large (réf. LA). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL). Spécifier la fonction PUSH-DIM (réf. PD). Autonomie d'urgence 1h/3h.

Cuerpo de chapa torneada y recubierto con polvo epoxi previamente fosfatado. Difusor de policarbonato opal de haz amplio (cód. LA). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD). Autonomía de emergencia 1h/3h.



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2150	18	≤ 120	500	<b>HR17C01</b>	<b>WW: 2700</b>	<b>LA:</b> fascio largo wide beam	-: ON/OFF <b>DL:</b> DALI	<b>Standard:</b> <input type="radio"/> <b>WI:</b> White Irazu <input type="radio"/> <b>BLL:</b> Black Lava <b>Su richiesta /On request:</b> <input type="radio"/> <b>SB:</b> Silver Bombalai <input type="radio"/> <b>BL:</b> Bronze Lario <input type="radio"/> <b>RR:</b> Rust Rame <input type="radio"/> <b>BF:</b> Beige Futura <input type="radio"/> <b>GK:</b> Gold Karkar <input type="radio"/> <b>BT:</b> Blue Telica
2550	22	≤ 116	600	<b>HR17C02</b>	<b>W:3000</b>			
2950	26	≤ 114	700	<b>HR17C03</b>	<b>X:3500</b> <b>N:4000</b>			

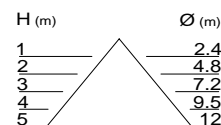
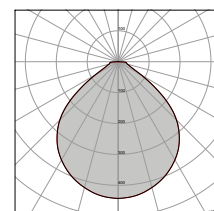


A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

Ottica LA 100°



MICRO GIRO

MICRO GIRO LENS

MINIAUTOMA

MINIAUTOMA LENS

AUTOMA

SII ORIENT LENS

ENNE ORIENT LENS

MINI GIRO LENS

ROLLER LENS

GIRO LED

Apparecchi LED da incasso orientabili.

*LED adjustable recessed downlights.*

*Luminaires LED encastrés orientables.*

*Luminarias LED orientables de empotrar.*

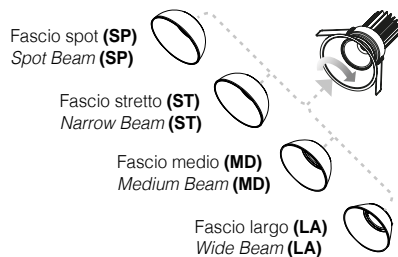
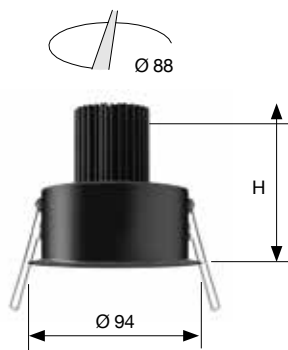
## INCASSI ORIENTABILI

*ADJUSTABLE RECESSED  
ENCASTRÉS ORIENTABLES  
ORIENTABLES DE EMPOTRAR*









Nota/Note  
 Ottiche intercambiabili senza ausilio di utensili  
 Exchangeable optics without using of tools

H 75 = 240 mA  
 H 75 = 250 mA  
 H 75 = 350 mA  
 H 105 = 500 mA  
 H 105 = 700 mA

**Orientabilità**  
**Adjustability**  
 Asse X / Axis X 45°  
 Asse Y / Axis Y 45°

## MICRO GIRO

FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Apparecchio LED da incasso orientabile.  
 Adjustable recessed LED downlight.  
 Luminare LED encastré orientables.  
 Luminaria LED de empotrar orientables.

Corpo in lamiera tornita, gruppo cardanico pressofuso in alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD). Emergenza autonomia 1h/3h.

Turned sheet metal body, die-cast aluminium cardan group painted with epoxy powder with epoxy powder previa phosphating. Extruded aluminium heatsink. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps en tôle tournée, cardan en aluminium moulé sous pression avec traitement époxy. Dissipateur en aluminium extrudé. Optique en polycarbonate métallisé à faisceau large (réf. LA) faisceau moyen (MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmerable DALI (réf. DL). Spécifier la fonction PUSH DIM (réf. PD). Autonomie d'urgence 1h/3h.

Cuerpo de chapa torneada con grupo óptico orientable de aluminio fundido a presión y recubierto con polvo epoxi previamente fosfataado. Disipador de aluminio extruido. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD). Autonomía de emergencia 1h/3h.



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
890	7	≤ 127	200	HRMCGR1	WW: 2700 W: 3000 X: 3500 N: 4000	SP: fascio spot spot beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● WI: White Irazu ● BLL: Black Lava <b>Su richiesta / On request:</b> ● SB: Silver Bombalai ● BL: Bronze Lario ● RR: Rust Rame ● BF: Beige Futura ● GK: Gold Karkar ● BT: Blue Telica
1100	9	≤ 122	250	HRMCGR2		ST: fascio stretto narrow beam		
1570	13	≤ 121	350	HRMCGR3		MD: fascio medio medium beam		
2150	18	≤ 120	500	HRMCGR4		LA: fascio largo wide beam		
2950	26	≤ 114	700	HRMCGR5				

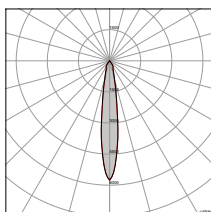


A richiesta | On request

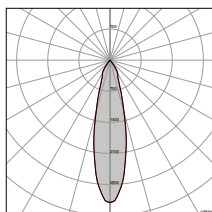
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

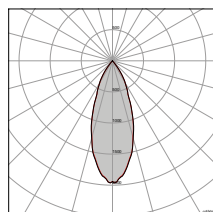
Ottica SP 15°



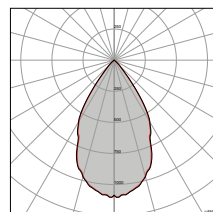
Ottica ST 25°



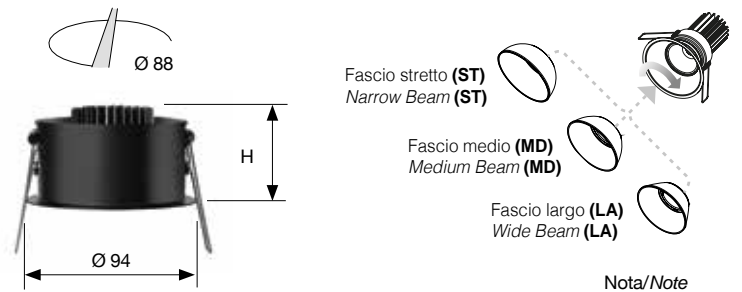
Ottica MD 40°



Ottica LA 60°



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	0.7	1	1.1
2	0.5	2	0.9	2	1.5	2	2.3
3	1.7	3	1.3	3	2.2	3	3.5
4	1.0	4	1.8	4	2.9	4	4.6
5	1.2	5	2.2	5	3.6	5	5.8



H 55 = 240 mA  
 H 55 = 250 mA  
 H 55 = 350 mA  
 H 85 = 500 mA  
 H 85 = 700 mA

**Orientabilità**  
**Adjustability**  
 Asse X / Axis X 45°  
 Asse Y / Axis Y 45°

Nota/Note  
 Ottiche intercambiabili  
 Exchangeable optics

# MICRO GIRO LENS

FASCIO/BEAM/FAISCEAU/HAZ ST | MD | LA

Apparecchio LED da incasso.  
 Recessed LED downlight.  
 Luminaire LED encastré.  
 Luminaria LED de empotrar.

Corpo in lamiera tornita, gruppo cardanico pressofuso in alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD). Emergenza autonomia 1h/3h.

Turned sheet metal body, die-cast aluminium cardan group painted with epoxy powder after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps en tôle tournée, cardan en aluminium moulé sous pression avec traitement époxy. Dissipateur en aluminium extrudé. Optique lenticulaire en polycarbonate à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL). Spécifier la fonction PUSH DIM (réf. PD). Autonomie d'urgence 1h/3h.

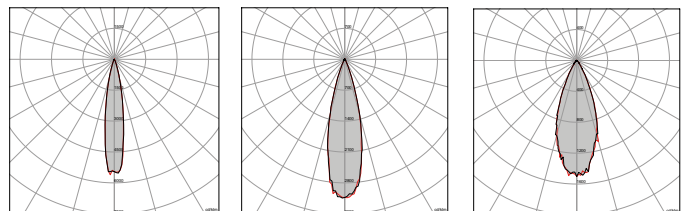
Cuerpo de chapa torneada con grupo óptico orientable de aluminio fundido a presión y recubierto con polvo epoxi previamente fosfatado. Óptica lenticular de policarbonato de haz amplio (cod. LA) haz medio (cod. MD) haz estrecho (cod. ST). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cod. DL). Especificar si se requiere con función PUSH DIM (cod. PD). Autonomía de emergencia 1h/3h.

5Y WARRANTY 5% FAILURE RATE | 60.000 h LED LIFETIME L70B10 | 100.000 h LED LIFETIME L70B50 | RIPPLE FREE

Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
890	7	≤ 127	200	HRMCGL1	WW: 2700 W: 3000 X: 3500 N: 4000	ST: fascio stretto narrow beam	-: ON/OFF DL: DALI	<b>Standard:</b> ● WI: White Irazu ● BLL: Black Lava <b>Su richiesta / On request:</b> ● SB: Silver Bombalai ● BL: Bronze Lario ● RR: Rust Rame ● BF: Beige Futura ● GK: Gold Karkar ● BT: Blue Telica
1100	9	≤ 122	250	HRMCGL2		MD: fascio medio medium beam		
1570	13	≤ 121	350	HRMCGL3		LA: fascio largo wide beam		
2150	18	≤ 120	500	HRMCGL4				
2950	26	≤ 114	700	HRMCGL5				

A richiesta | On request

Ottica ST 12°      Ottica MD 25°      Ottica LA 38°

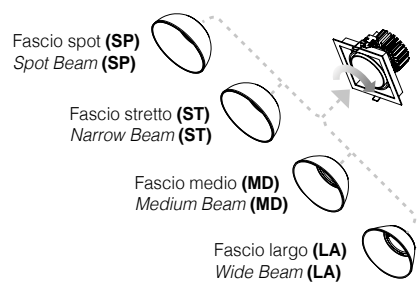
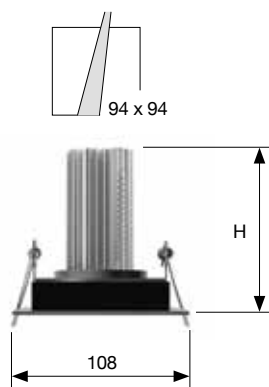


H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.2	1	0.4	1	0.7
2	0.4	2	0.8	2	1.4
3	0.6	3	1.3	3	2.1
4	0.8	4	1.7	4	2.7
5	1.0	5	2.1	5	3.4

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%





Nota/Note  
 Ottiche intercambiabili senza ausilio di utensili  
 Exchangeable optics without using of tools

H 70 =200 mA  
 H 70 =250 mA  
 H 100 =350 mA  
 H 130 =500 mA

**Orientabilità**  
**Adjustability**  
 Asse X / Axis X 45°  
 Asse Y / Axis Y 45°

# MINIAUTOMA

FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Apparecchio LED da incasso orientabile.  
 Adjustable recessed LED downlight.  
 Luminaire LED encastré orientables.  
 Luminaria LED de empotrar orientables.

Corpo ed anello in pressofusione d'alluminio verniciato con polveri epossidiche previa fosfatizzazione. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD). Emergenza autonomia 1h/3h.

*Die-cast aluminium body and ring painted with epoxy powder after phosphating. Extruded aluminium heatsink. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.*

*Corps et bague en aluminium moulé sous pression avec traitement époxy. Optique lenticulaire en polycarbonate à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL). Spécifier la fonction PUSH DIM (réf. PD). Autonomie d'urgence 1H/3H.*

*Cuerpo y anillo de aluminio fundido a presión recubierto con polvo epoxi previamente fosfatado. Óptica lenticular de policarbonato de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD). Autonomía de emergencia 1h/3h.*

5Y WARRANTY 5% FAILURE RATE | 60.000 h LED LIFETIME L90B10 | 100.000 h LED LIFETIME L70B50 | RIPPLE FREE

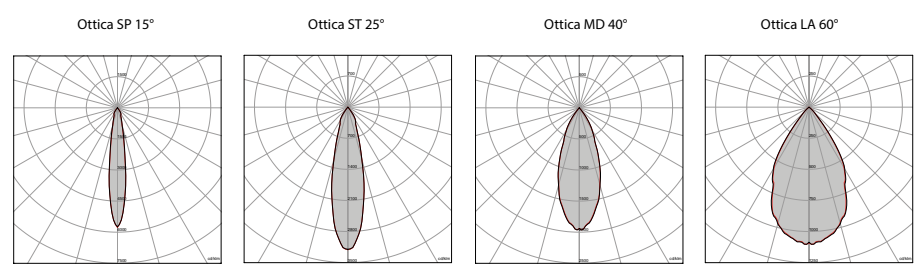
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
890	7	≤ 127	200	HRMA1	WW: 2700 W:3000 X:3500 N:4000	SP: fascio spot spot beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● <b>Wl:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
1100	9	≤ 122	250	HRMA2		ST: fascio stretto narrow beam		
1570	13	≤ 121	350	HRMA3		MD: fascio medio medium beam		
2150	18	≤ 120	500	HRMA4		LA: fascio largo wide beam		

CE  >90 CRI  3SDCM  IP44 EN 60529  IK 07 EN 60068  230 V 2014/25/UE  50/60 Hz  850° EN 60995  RG 0 EN 62471  DL DALI  PD PUSH DIM  DIM W  >80 CRI  >95 CRI  VIVID PLUS  VEG PLUS  WHITE PLUS  MEAT PLUS  EM

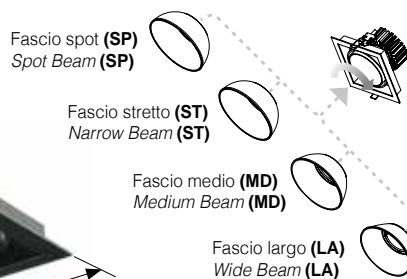
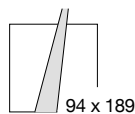
A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	0.7	1	1.1
2	0.5	2	0.9	2	1.5	2	2.3
3	1.7	3	1.3	3	2.2	3	3.5
4	1.0	4	1.8	4	2.9	4	4.6
5	1.2	5	2.2	5	3.6	5	5.8



Nota/Note  
Ottiche intercambiabili senza ausilio di utensili  
Exchangeable optics without using of tools

H 70 =200 mA  
H 70 =250 mA  
H 100 =350 mA  
H 130 =500 mA

**Orientabilità**  
**Adjustability**  
Asse X / Axis X 45°  
Asse Y / Axis Y 45°

## MINIAUTOMA 2

FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Apparecchio LED da incasso orientabile 2 luci.  
Adjustable recessed LED downlight 2 lights.  
Luminaire LED encastré orientables 2 lumières.  
Luminaria LED de empotrar orientables 2 luzes.

Corpo ed anello in pressofusione d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD), Emergenza autonomia 1h/3h.

Die-cast aluminium body and ring painted with epoxy powder after phosphating. Extruded aluminium heatsink. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps et bague en aluminium moulé sous pression avec traitement époxy. Optique lenticulaire en polycarbonate à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmerable DALI (réf. DL). Spécifier la fonction PUSH DIM (réf. PD). Autonomie d'urgence 1H/3H.

Cuerpo y anillo de aluminio fundido a presión recubierto con polvo epoxi previamente fosfatado. Óptica lenticular de policarbonato de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD). Autonomía de emergencia 1h/3h.



Lumen	Watt	Lumen Watt Out	mA	Code Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1780	2x7	≤ 127	200	<b>HRMA21</b>	<b>WW: 2700</b> <b>W: 3000</b> <b>X: 3500</b> <b>N: 4000</b>	<b>SP:</b> fascio spot spot beam	<b>-:</b> ON/OFF  <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava  <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
2200	2x9	≤ 122	250	<b>HRMA22</b>		<b>ST:</b> fascio stretto narrow beam		
3140	2x13	≤ 121	350	<b>HRMA23</b>		<b>MD:</b> fascio medio medium beam		
4300	2x18	≤ 120	500	<b>HRMA24</b>		<b>LA:</b> fascio largo wide beam		



A richiesta | On request

Ottica SP 15°

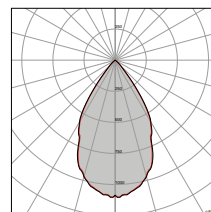
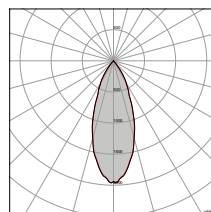
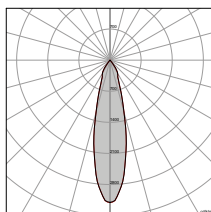
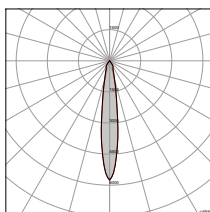
Ottica ST 25°

Ottica MD 40°

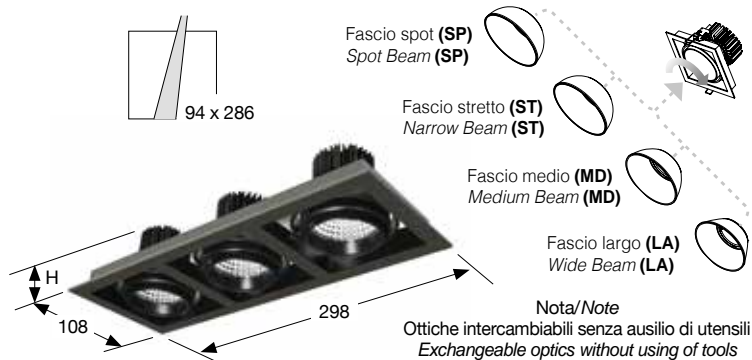
Ottica LA 60°

Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	0.7	1	1.1
2	0.5	2	0.9	2	1.5	2	2.3
3	1.7	3	1.3	3	2.2	3	3.5
4	1.0	4	1.8	4	2.9	4	4.6
5	1.2	5	2.2	5	3.6	5	5.8



H 70 =200 mA  
 H 70 =250 mA  
 H 100 =350 mA  
 H 130 =500 mA

**Orientabilità**  
**Adjustability**  
 Asse X / Axis X 45°  
 Asse Y / Axis Y 45°

# MINIAUTOMA 3

FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Apparecchio LED da incasso orientabile 3 luci.  
 Adjustable recessed LED downlight 3 lights.  
 Luminaire LED encastré orientables 3 lumières  
 Luminaria LED de empotrar orientables 3 luzes.

Corpo ed anello in pressofusione d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD). Emergenza autonomia 1h/3h.

Die-cast aluminium body and ring painted with epoxy powder after phosphating. Extruded aluminium heatsink. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps et bague en aluminium moulé sous pression avec traitement époxy. Optique lenticulaire en polycarbonate à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL). Spécifier la fonction PUSH DIM (réf. PD). Autonomie d'urgence 1H/3H.

Cuerpo y anillo de aluminio fundido a presión recubierto con polvo epoxi previamente fosfatado. Óptica lenticular de policarbonato de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD). Autonomía de emergencia 1h/3h.



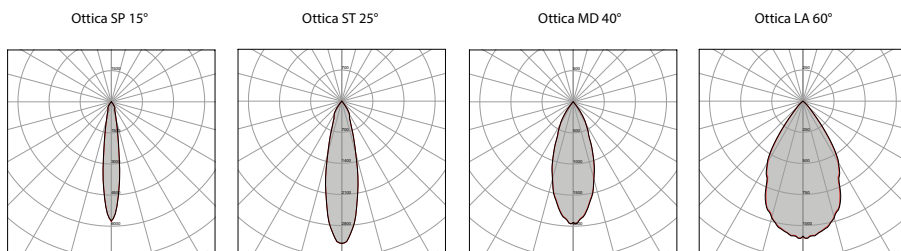
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2670	3x7	≤ 127	200	<b>HRMA31</b>	<b>WW: 2700</b> <b>W:3000</b> <b>X:3500</b> <b>N:4000</b>	<b>SP:</b> fascio spot spot beam	-: ON/OFF <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava
3300	3x9	≤ 122	250	<b>HRMA32</b>		<b>ST:</b> fascio stretto narrow beam		<b>Su richiesta /On request:</b>
4710	3x13	≤ 121	350	<b>HRMA33</b>		<b>MD:</b> fascio medio medium beam		● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario
6450	3x18	≤ 120	500	<b>HRMA34</b>		<b>LA:</b> fascio largo wide beam		● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica



A richiesta | On request

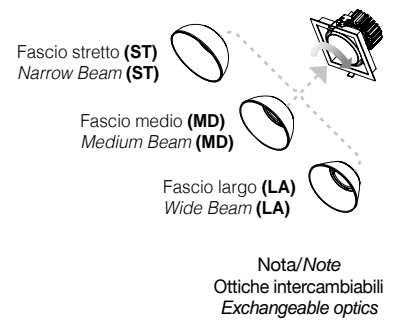
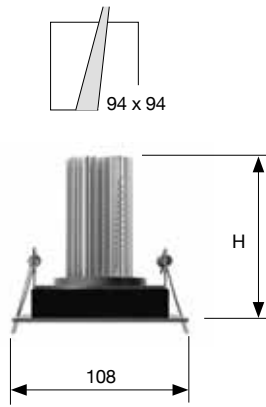
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	0.7	1	1.1
2	0.5	2	0.9	2	1.5	2	2.3
3	1.7	3	1.3	3	2.2	3	3.5
4	1.0	4	1.8	4	2.9	4	4.6
5	1.2	5	2.2	5	3.6	5	5.8





H 60 = 200 mA  
 H 60 = 250 mA  
 H 90 = 350 mA  
 H 120 = 500 mA

**Orientabilità**  
**Adjustability**  
 Asse X / Axis X 45°  
 Asse Y / Axis Y 45°

# MINIAUTOMA LENS

FASCIO/BEAM/FAISCEAU/HAZ ST | MD | LA

Apparecchio LED da incasso orientabile.  
 Adjustable recessed LED downlight.  
 Luminaire LED encastré orientables.  
 Luminaria LED de empotrar orientables.

Corpo ed anello in pressofusione d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD). Emergenza autonomia 1h/3h.

Die-cast aluminium body and ring painted with epoxy powder after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps et bague en aluminium moulé sous pression avec traitement époxy. Optique lenticulaire en polycarbonate à faisceau large (réf. LA), faisceau moyen (réf. MD) ou faisceau étroit (réf. ST). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL), spécifier la fonction PUSH DIM (réf. PD). Autonomie d'urgence 1H/3H.

Cuerpo y anillo de aluminio fundido a presión recubierto con polvo epoxi previamente fosfatao. Óptica lenticular de policarbonato de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD). Autonomía de emergencia 1h/3h.



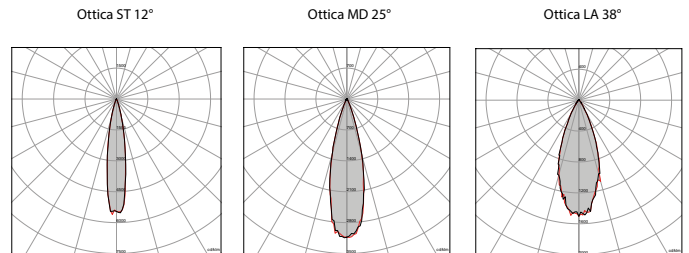
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
890	7	≤ 127	200	<b>HRMAL1</b>	<b>WW: 2700</b> <b>W:3000</b> <b>X:3500</b> <b>N:4000</b>	<b>ST:</b> fascio stretto narrow beam	<b>-: ON/OFF</b>  <b>DL: DALI</b>	<b>Standard:</b> <ul style="list-style-type: none"> <li>● <b>WI:</b> White Irazu</li> <li>● <b>BLL:</b> Black Lava</li> </ul>
1100	9	≤ 122	250	<b>HRMAL2</b>		<b>MD:</b> fascio medio medium beam		<b>Su richiesta / On request:</b> <ul style="list-style-type: none"> <li>● <b>SB:</b> Silver Bombalai</li> <li>● <b>BL:</b> Bronze Lario</li> <li>● <b>RR:</b> Rust Rame</li> <li>● <b>BF:</b> Beige Futura</li> <li>● <b>GK:</b> Gold Karkar</li> <li>● <b>BT:</b> Blue Telica</li> </ul>
1570	13	≤ 121	350	<b>HRMAL3</b>		<b>LA:</b> fascio largo wide beam		
2150	18	≤ 120	500	<b>HRMAL4</b>				



A richiesta | On request

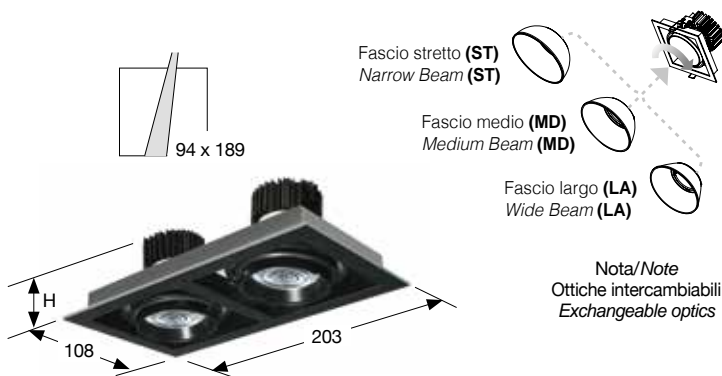
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.2	1	0.4	1	0.7
2	0.4	2	0.8	2	1.4
3	0.6	3	1.3	3	2.1
4	0.8	4	1.7	4	2.7
5	1.0	5	2.1	5	3.4





H 60 = 200 mA  
 H 60 = 250 mA  
 H 90 = 350 mA  
 H 120 = 500 mA

**Orientabilità**  
**Adjustability**  
 Asse X / Axis X 45°  
 Asse Y / Axis Y 45°

## MINIAUTOMA 2 LENS

FASCIO/BEAM/FAISCEAU/HAZ ST | MD | LA

Apparecchio LED da incasso orientabile 2 luci.  
 Adjustable recessed LED downlight 2 lights.  
 Luminaire LED encastré orientables 2 lumières.  
 Luminaria LED de empotrar orientables 2 luzes.

Corpo ed anello in pressofusione d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD). Emergenza autonomia 1h/3h.

Die-cast aluminium body and ring painted with epoxy powder after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps et bague en aluminium moulé sous pression avec traitement époxy. Optique lenticulaire en polycarbonate à faisceau large (réf. LA), faisceau moyen (réf. MD) ou faisceau étroit (réf. ST). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL), spécifier la fonction PUSH DIM (réf. PD). Autonomie d'urgence 1H/3H.

Cuerpo y anillo de aluminio fundido a presión recubierto con polvo epoxi previamente fosfado. Óptica lenticular de policarbonato de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL); Especificar si se requiere con función PUSH DIM (cód. PD). Autonomía de emergencia 1h/3h.



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1780	2x7	≤ 127	200	<b>HRMAL21</b>	<b>WW: 2700</b> <b>W: 3000</b> <b>X: 3500</b> <b>N: 4000</b>	<b>ST:</b> fascio stretto narrow beam	-: ON/OFF  <b>DL:</b> DALI	<b>Standard:</b>
2200	2x9	≤ 122	250	<b>HRMAL22</b>		<b>MD:</b> fascio medio medium beam		● <b>WL:</b> White Irazu ● <b>BLL:</b> Black Lava
3140	2x13	≤ 121	350	<b>HRMAL23</b>		<b>LA:</b> fascio largo wide beam		<b>Su richiesta / On request:</b>
4300	2x18	≤ 120	500	<b>HRMAL24</b>		● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica		



A richiesta | On request

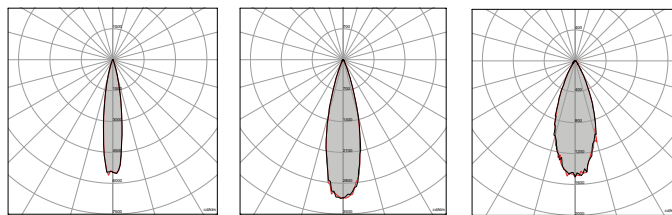
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

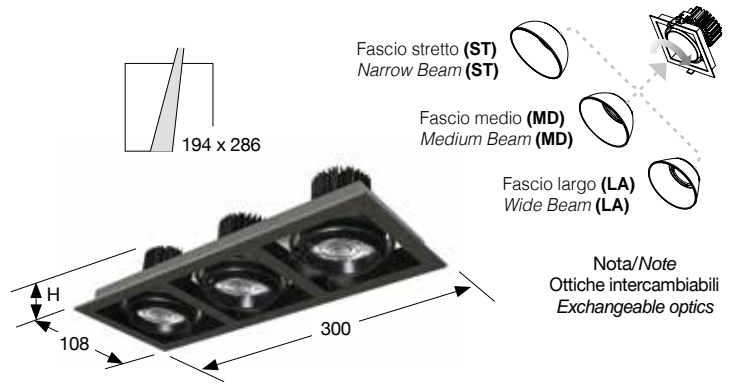
Ottica ST 12°

Ottica MD 25°

Ottica LA 38°



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.2	1	0.4	1	0.7
2	0.4	2	0.8	2	1.4
3	0.6	3	1.3	3	2.1
4	0.8	4	1.7	4	2.7
5	1.0	5	2.1	5	3.4



H 60 = 200 mA  
 H 60 = 250 mA  
 H 90 = 350 mA  
 H 120 = 500 mA

**Orientabilità**  
**Adjustability**  
 Asse X / Axis X 45°  
 Asse Y / Axis Y 45°

# MINIAUTOMA 3 LENS

FASCIO/BEAM/FAISCEAU/HAZ ST | MD | LA

Apparecchio LED da incasso orientabile 3 luci.  
 Adjustable recessed LED downlight 3 lights.  
 Luminaire LED encastré orientables 3 lumières.  
 Luminaria LED de empotrar orientables 3 luzes.

Corpo ed anello in pressofusione d'alluminio verniciato con polveri epossidiche previa fosfatizzazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD). Emergenza autonomia 1h/3h.

Die-cast aluminium body and ring painted with epoxy powder after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps et bague en aluminium moulé sous pression avec traitement époxy. Optique lenticulaire en polycarbonate à faisceau large (réf. LA), faisceau moyen (réf. MD) ou faisceau étroit (réf. ST). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL), spécifier la fonction PUSH DIM (réf. PD). Autonomie d'urgence 1H/3H.

Cuerpo y anillo de aluminio fundido a presión recubierto con polvo epoxi previamente fosfatado. Óptica lenticular de policarbonato de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD). Autonomía de emergencia 1h/3h.



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2670	3x7	≤ 127	200	HRMAL31	WW: 2700 W: 3000 X: 3500 N: 4000	ST: fascio stretto narrow beam	-: ON/OFF DL: DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
3300	3x9	≤ 122	250	HRMAL32		MD: fascio medio medium beam		
4710	3x13	≤ 121	350	HRMAL33		LA: fascio largo wide beam		
6450	3x18	≤ 120	500	HRMAL34				

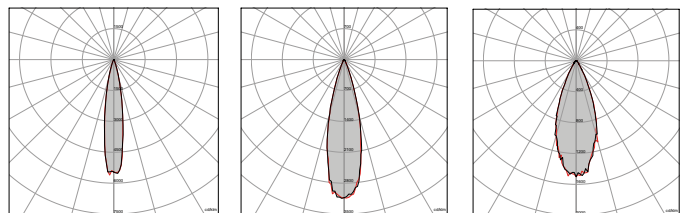


A richiesta | On request

Ottica ST 12°

Ottica MD 25°

Ottica LA 38°

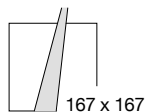


H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.2	1	0.4	1	0.7
2	0.4	2	0.8	2	1.4
3	0.6	3	1.3	3	2.1
4	0.8	4	1.7	4	2.7
5	1.0	5	2.1	5	3.4

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%





Fascio medio (MD)  
Medium Beam (MD)

Fascio largo (LA)  
Wide Beam (LA)

Nota/Note  
Ottiche intercambiabili  
Exchangeable optics

Orientabilità  
Adjustability  
Asse X / Axis X 45°  
Asse Y / Axis Y 45°

## AUTOMA LED

FASCIO/BEAM/FAISCEAU/HAZ MD | LA

Apparecchio LED da incasso orientabile.  
Adjustable recessed LED downlight.  
Luminaire LED encastré orientables.  
Luminaria LED de empotrar orientables.

Corpo ed anello in pressofusione d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD). Emergenza autonomia 1h/3h.

Die-cast aluminium body and ring painted with epoxy powder after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louver wide beam (code LA) medium beam (code MD). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps et bague en aluminium moulé sous pression avec traitement époxy. Optique lenticulaire en polycarbonate à faisceau large (réf. LA), faisceau moyen (réf. MD). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL), spécifier la fonction PUSH DIM (réf. PD). Autonomie d'urgence 1h/3h.

Cuerpo y anillo de aluminio fundido a presión recubierto con polvo epoxi previamente fosfado. Óptica lenticular de policarbonato de haz amplio (cód. LA) haz medio (cód. MD). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD). Autonomía de emergencia 1h/3h.



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1490	12	≤ 124	350	HRAA1	W:3000 N:4000	MD: fascio medio medium beam LA: fascio largo wide beam	-: ON/OFF DL: DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
1970	16	≤ 123	450	HRAA2				
2410	20	≤ 120	550	HRAA3				
2770	23,5	≤ 118	650	HRAA4				
3080	26,5	≤ 116	700	HRAA5				
3880	32,5	≤ 119	900	HRAA6				
4420	38,5	≤ 115	1050	HRAA7				



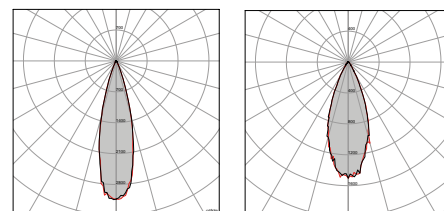
A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90.  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

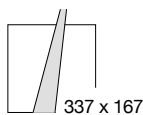
Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90.  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

Ottica MD 25°

Ottica LA 38°



H (m)	Ø (m)	H (m)	Ø (m)
1	0.4	1	0.7
2	0.8	2	1.4
3	1.3	3	2.1
4	1.7	4	2.7
5	2.1	5	3.4



Fascio medio (MD)  
Medium Beam (MD)

Fascio largo (LA)  
Wide Beam (LA)

Nota/Note  
Ottiche intercambiabili  
Exchangeable optics

**Orientabilità**  
**Adjustability**  
Asse X / Axis X 45°  
Asse Y / Axis Y 45°

## AUTOMA LED 2

FASCIO/BEAM/FAISCEAU/HAZ MD | LA

Apparecchio LED da incasso orientabile 2 luci.  
Adjustable recessed LED downlight 2 lights.  
Luminaire LED encastré orientables 2 lumières.  
Luminaria LED de empotrar orientables 2 luzes.

Corpo ed anello in pressofusione d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD). Emergenza autonomia 1h/3h.

Die-cast aluminium body and ring painted with epoxy powder after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louver wide beam (code LA) medium beam (code MD). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps et bague en aluminium moulé sous pression avec traitement époxy. Optique lenticulaire en polycarbonate à faisceau large (réf. LA), faisceau moyen (réf. MD). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL), spécifier la fonction PUSH DIM (réf. PD). Autonomie d'urgence 1h/3h.

Cuerpo y anillo de aluminio fundido a presión recubierto con polvo epoxi previamente fosfatao. Óptica lenticular de policarbonato de haz amplio (cód. LA) haz medio (cód. MD). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD). Autonomía de emergencia 1h/3h.



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2980	2x12	≤ 124	350	<b>HRAA21</b>	<b>W:3000</b> <b>N:4000</b>	<b>MD:</b> fascio medio medium beam <b>LA:</b> fascio largo wide beam	<b>-:</b> ON/OFF <b>DL:</b> DALI	<b>Standard:</b> <ul style="list-style-type: none"> <li>● <b>WI:</b> White Irazu</li> <li>● <b>BLL:</b> Black Lava</li> </ul> <b>Su richiesta /On request:</b> <ul style="list-style-type: none"> <li>● <b>SB:</b> Silver Bombalai</li> <li>● <b>BL:</b> Bronze Lario</li> <li>● <b>RR:</b> Rust Rame</li> <li>● <b>BF:</b> Beige Futura</li> <li>● <b>GK:</b> Gold Karkar</li> <li>● <b>BT:</b> Blue Telica</li> </ul>
3940	2x16	≤ 123	450	<b>HRAA22</b>				
4810	2x20	≤ 120	550	<b>HRAA23</b>				
5540	2x23,5	≤ 118	650	<b>HRAA24</b>				
6150	2x26,5	≤ 116	700	<b>HRAA25</b>				
7750	2x32,5	≤ 119	900	<b>HRAA26</b>				
8830	2x38,5	≤ 115	1050	<b>HRAA27</b>				



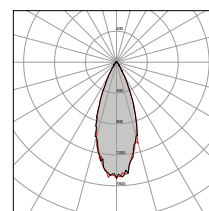
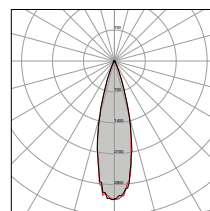
A richiesta | On request

Temperatura ambiente min. - max.: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90.  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

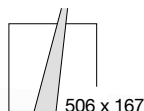
Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90.  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

Ottica MD 25°

Ottica LA 38°



H (m)	Ø (m)	H (m)	Ø (m)
1	0.4	1	0.7
2	0.8	2	1.4
3	1.3	3	2.1
4	1.7	4	2.7
5	2.1	5	3.4



Fascio medio (MD)  
Medium Beam (MD)



Fascio largo (LA)  
Wide Beam (LA)



Nota/Note  
Ottiche intercambiabili  
Exchangeable optics

**Orientabilità**  
**Adjustability**  
Asse X / Axis X 45°  
Asse Y / Axis Y 45°

# AUTOMA LED 3

FASCIO/BEAM/FAISCEAU/HAZ MD | LA

Apparecchio LED da incasso orientabile 3 luci.  
Adjustable recessed LED downlight 3 lights.  
Luminaire LED encastré orientables 3 lumières.  
Luminaria LED de empotrar orientables 3 luzes.

Corpo ed anello in pressofusione d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD). Emergenza autonomia 1h/3h.

Die-cast aluminium body and ring painted with epoxy powder after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louver wide beam (code LA) medium beam (code MD). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps et bague en aluminium moulé sous pression avec traitement époxy. Optique lenticulaire en polycarbonate à faisceau large (réf. LA), faisceau moyen (réf. MD). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL), spécifier la fonction PUSH DIM (réf. PD). Autonomie d'urgence 1h/3h.

Cuerpo y anillo de aluminio fundido a presión recubierto con polvo epoxi previamente fosfado. Óptica lenticular de policarbonato de haz amplio (cód. LA) haz medio (cód. MD). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD). Autonomía de emergencia 1h/3h.



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
4460	3x12	≤ 124	350	HRAA31	W:3000 N:4000	MD: fascio medio medium beam LA: fascio largo wide beam	-: ON/OFF DL: DALI	<b>Standard:</b> ● WI: White Irazu ● BLL: Black Lava <b>Su richiesta / On request:</b> ● SB: Silver Bombalai ● BL: Bronze Lario ● RR: Rust Rame ● BF: Beige Futura ● GK: Gold Karkar ● BT: Blue Telica
5900	3x16	≤ 123	450	HRAA32				
7210	3x20	≤ 120	550	HRAA33				
8300	3x23,5	≤ 118	650	HRAA34				
9220	3x26,5	≤ 116	700	HRAA35				
11620	3x32,5	≤ 119	900	HRAA36				
13240	2x38,5	≤ 115	1050	HRAA37				



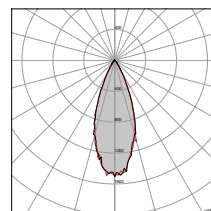
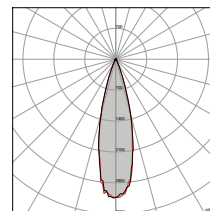
A richiesta | On request

Temperatura ambiente min - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90.  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90.  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

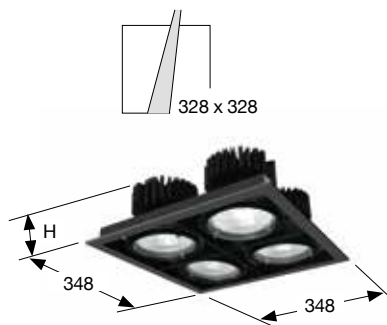
Ottica MD 25°

Ottica LA 38°



H (m)	Ø (m)	H (m)	Ø (m)
1	0.4	1	0.7
2	0.8	2	1.4
3	1.3	3	2.1
4	1.7	4	2.7
5	2.1	5	3.4





Fascio medio (MD)  
Medium Beam (MD)

Fascio largo (LA)  
Wide Beam (LA)

Nota/Note

Ottiche intercambiabili  
Exchangeable optics

**Orientabilità**  
**Adjustability**  
Asse X / Axis X 45°  
Asse Y / Axis Y 45°

## AUTOMA LED 4

FASCIO/BEAM/FAISCEAU/HAZ MD | LA

Apparecchio LED da incasso orientabile 4 luci.

Adjustable recessed LED downlight 4 lights.

Luminaire LED encastré orientables 4 lumières.

Luminaria LED de empotrar orientables 4 luzes.

Corpo ed anello in pressofusione d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD). Emergenza autonomia 1h/3h.

Die-cast aluminium body and ring painted with epoxy powder after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louver wide beam (code LA) medium beam (code MD). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps et bague en aluminium moulé sous pression avec traitement époxy. Optique lenticulaire en polycarbonate à faisceau large (réf. LA), faisceau moyen (réf. MD). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL), spécifier la fonction PUSH DIM (réf. PD). Autonomie d'urgence 1h/3h.

Cuerpo y anillo de aluminio fundido a presión recubierto con polvo epoxi previamente fosfatao. Óptica lenticular de policarbonato de haz amplio (cód. LA) haz medio (cód. MD). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL); Especificar si se requiere con función PUSH DIM (cód. PD). Autonomía de emergencia 1h/3h.



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
5950	4x12	≤ 124	350	HRAA41	W:3000 N:4000	MD: fascio medio medium beam LA: fascio largo wide beam	-: ON/OFF DL: DALI	<b>Standard:</b> ● WI: White Irazu ● BLL: Black Lava <b>Su richiesta /On request:</b> ● SB: Silver Bombalai ● BL: Bronze Lario ● RR: Rust Rame ● BF: Beige Futura ● GK: Gold Karkar ● BT: Blue Telica
7870	4x16	≤ 123	450	HRAA42				
9620	4x20	≤ 120	550	HRAA43				
11070	4x23,5	≤ 118	650	HRAA44				
11290	4x26,5	≤ 116	700	HRAA45				
15490	4x32,5	≤ 119	900	HRAA46				
17660	4x38,5	≤ 115	1050	HRAA47				



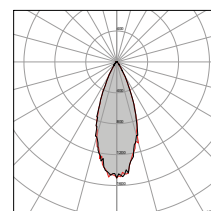
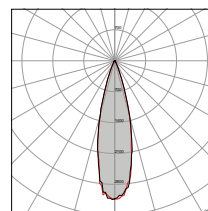
A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

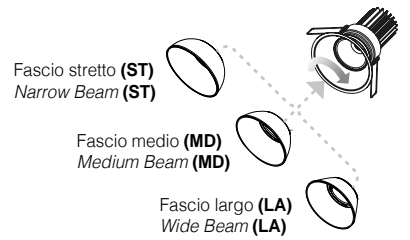
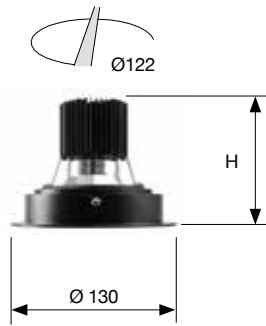
Ottica MD 25°

Ottica LA 38°



H (m)	Ø (m)	H (m)	Ø (m)
1	0.4	1	0.7
2	0.8	2	1.4
3	1.3	3	2.1
4	1.7	4	2.7
5	2.1	5	3.4





Nota/Note  
Ottiche intercambiabili  
Exchangeable optics

H 95 = 500 mA  
H 95 = 600 mA  
H 125 = 700 mA  
H 125 = 800 mA

**Orientabilità**  
**Adjustability**  
Asse X / Axis X 45°

## SII ORIENT LENS

FASCIO/BEAM/FAISCEAU/HAZ ST | MD | LA

Apparecchio LED da incasso orientabile.  
Adjustable recessed LED downlight.  
Luminaire LED encastré orientables.  
Luminaria LED de empotrar orientables.

Corpo in lamiera tornita, gruppo orientabile pressofuso in alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD). Emergenza autonomia 1h/3h.

Turned sheet metal body, die-cast aluminium adjustable group painted with epoxy powder after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps en tôle tournée, groupe pivotant en aluminium moulé sous pression, avec traitement époxy. Dissipateur en aluminium extrudé. Optique lenticulaire en polycarbonate à faisceau large (réf. LA) faisceau moyen (réf. ST) faisceau étroit (réf. ST). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL). Spécifier la fonction PUSH DIM (réf. PD). Autonomie d'urgence 1h/3h.

Cuerpo de chapa torneada con grupo óptico orientable de aluminio fundido a presión y recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica lenticular de policarbonato haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica separada ON/OFF. A pedido: regulación DALI (cód. DL). Especificar si se requiere con la función PUSH DIM (cód. PD). Autonomía de emergencia 1h / 3h.



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2150	18	≤ 120	500	HRSIOL1	WW: 2700 W: 3000 X: 3500 N: 4000	ST: fascio stretto narrow beam	-: ON/OFF DL: DALI	<b>Standard:</b> ● WI: White Irazu ● BLL: Black Lava <b>Su richiesta / On request:</b> ● SB: Silver Bombalai ● BL: Bronze Lario ● RR: Rust Rame ● BF: Beige Futura ● GK: Gold Karkar ● BT: Blue Telica
2550	22	≤ 116	600	HRSIOL2		MD: fascio medio medium beam		
2950	26	≤ 114	700	HRSIOL3		LA: fascio largo wide beam		
3350	30	≤ 112	800	HRSIOL4				



A richiesta | On request

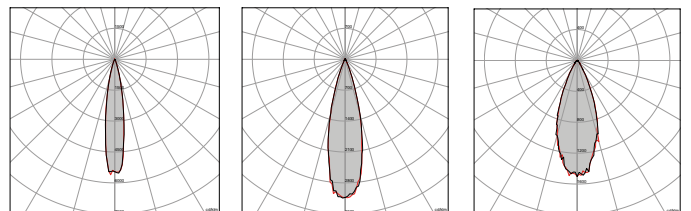
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90.  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90.  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

Ottica ST 12°

Ottica MD 25°

Ottica LA 38°

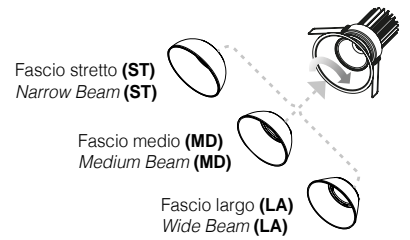
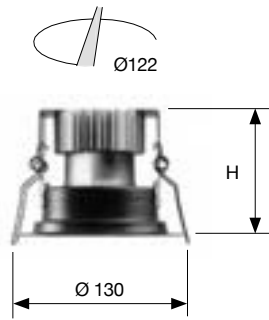


H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.2	1	0.4	1	0.7
2	0.4	2	0.8	2	1.4
3	0.6	3	1.3	3	2.1
4	0.8	4	1.7	4	2.7
5	1.0	5	2.1	5	3.4





E1 →



Nota/Note  
 Ottiche intercambiabili  
 Exchangeable optics

H 95 = 500 mA  
 H 95 = 600 mA  
 H 125 = 700 mA  
 H 125 = 800 mA

**Orientabilità**  
**Adjustability**  
 Asse X / Axis X 45°

# ENNE ORIENT LENS

FASCIO/BEAM/FAISCEAU/HAZ ST | MD | LA

Apparecchio LED da incasso orientabile.  
 Adjustable recessed LED downlight.  
 Luminaire LED encastré orientables.  
 Luminaria LED de empotrar orientables.

Corpo in lamiera tornita, gruppo orientabile pressofuso in alluminio verniciato con polveri epossidiche previa fosfatizzazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD). Emergenza autonomia 1h/3h.

Turned sheet metal body, die-cast aluminium adjustable group painted with epoxy powder after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps en tôle tournée, groupe pivotant en aluminium moulé sous pression, avec traitement époxy. Dissipateur en aluminium extrudé. Optique lenticulaire en polycarbonate à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL), spécifier la fonction PUSH DIM (réf. PD). Autonomie d'urgence 1h/3h.

cuerpo de chapa torneada con grupo óptico orientable de aluminio fundido a presión y recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica lenticular de policarbonato haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD). Autonomía de emergencia 1h/3h.



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2150	18	≤ 120	500	<b>HRENOL1</b>	<b>WW: 2700</b> <b>W:3000</b> <b>X:3500</b> <b>N:4000</b>	<b>ST:</b> fascio stretto narrow beam	-: ON/OFF  <b>DL:</b> DALI	<b>Standard:</b>  ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava  <b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
2550	22	≤ 116	600	<b>HRENOL2</b>		<b>MD:</b> fascio medio medium beam		
2950	26	≤ 114	700	<b>HRENOL3</b>		<b>LA:</b> fascio largo wide beam		
3350	30	≤ 112	800	<b>HRENOL4</b>				



A richiesta | On request

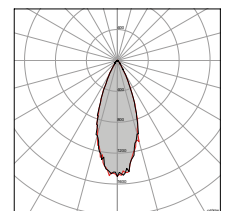
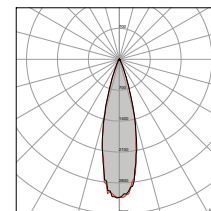
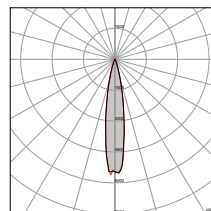
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

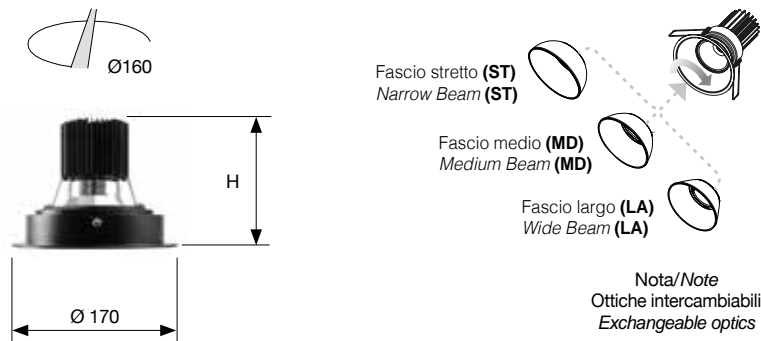
Ottica ST 12°

Ottica MD 25°

Ottica LA 38°



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.2	1	0.4	1	0.7
2	0.4	2	0.8	2	1.4
3	0.6	3	1.3	3	2.1
4	0.8	4	1.7	4	2.7
5	1.0	5	2.1	5	3.4



Nota/Note  
Ottiche intercambiabili  
Exchangeable optics

H 115 = 500 mA  
H 115 = 600 mA  
H 145 = 700 mA  
H 145 = 800 mA

**Orientabilità**  
**Adjustability**  
Asse X / Axis X 45°  
Asse Y / Axis Y 45°

## MINI GIRO LENS

FASCIO/BEAM/FAISCEAU/HAZ ST | MD | LA

Apparecchio LED da incasso orientabile.  
Adjustable recessed LED downlight.  
Luminaire LED encastré orientables.  
Luminaria LED de empotrar orientables.

Corpo in lamiera tornita, gruppo cardanico pressofuso in alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD). Emergenza autonomia 1h/3h.

Turned sheet metal body, die-cast aluminium cardan group painted with epoxy powder after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps en tôle tournée, cardan en aluminium moulé sous pression avec traitement époxy. Dissipateur en aluminium extrudé. Optique lenticulaire en polycarbonate à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL). Spécifier la fonction PUSH DIM (réf. PD). Autonomie d'urgence 1h/3h.

Cuerpo de chapa torneada con anillo de aluminio fundido a presión y recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica lenticular de policarbonato haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD). Autonomía de emergencia 1h/3h.



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2150	18	≤ 120	500	HRMGRL1	WW: 2700 W:3000 X:3500 N:4000	ST: fascio stretto narrow beam	-: ON/OFF  DL: DALI	<b>Standard:</b> ● <b>W1:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
2550	22	≤ 116	600	HRMGRL2		MD: fascio medio medium beam		
2950	26	≤ 114	700	HRMGRL3		LA: fascio largo wide beam		
3350	30	≤ 112	800	HRMGRL4				



A richiesta | On request

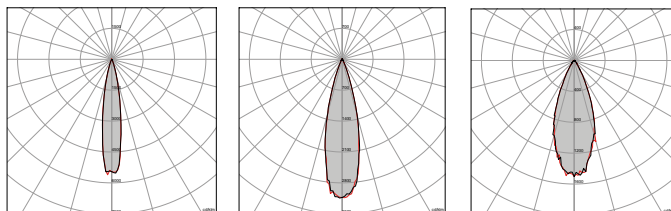
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90.  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90.  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

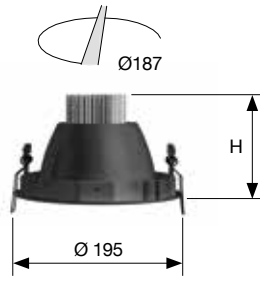
Ottica ST 12°

Ottica MD 25°

Ottica LA 38°



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.2	1	0.4	1	0.7
2	0.4	2	0.8	2	1.4
3	0.6	3	1.3	3	2.1
4	0.8	4	1.7	4	2.7
5	1.0	5	2.1	5	3.4



H 105 = 500 mA  
 H 105 = 600 mA  
 H 135 = 700 mA  
 H 135 = 800 mA

Fascio stretto (ST)  
 Narrow Beam (ST)

Fascio medio (MD)  
 Medium Beam (MD)

Fascio largo (LA)  
 Wide Beam (LA)



**Orientabilità**  
**Adjustability**  
 Asse X / Axis X 45°

Nota/Note  
 Ottiche intercambiabili  
 Exchangeable optics

# ROLLER LENS

FASCIO/BEAM/FAISCEAU/HAZ ST | MD | LA

Apparecchio LED da incasso orientabile.  
 Adjustable recessed LED downlight.  
 Luminaire LED encastré orientables.  
 Luminaria LED de empotrar orientables.

Corpo in lamiera tornita, gruppo cardanico pressofuso in alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD) - Emergenza autonomia 1h/3h.

Turned sheet metal body, die-cast aluminium cardan group painted with epoxy powder after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Corps en tôle tournée, cardan en aluminium moulé sous pression avec traitement époxy. Dissipateur en aluminium extrudé. Optique lenticulaire en polycarbonate à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST). Source lumineuse LED. Emission directe. Fixation à encastrement au moyen de ressorts. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI (réf. DL). Spécifier la fonction PUSH DIM (réf. PD). Autonomie d'urgence 1h/3h.

Cuerpo de chapa torneada con anillo de aluminio fundido a presión y recubierto con polvo epoxi previamente fosfatado. Dispador de aluminio extruido. Óptica lenticular de policarbonato haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST). Fuente de iluminación LED. Emisión directa. Instalación empotrable con muelles. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD). Autonomía de emergencia 1h/3h.

5Y WARRANTY 5% FAILURE RATE | 60.000 h LED LIFETIME L70B10 | 100.000 h LED LIFETIME L70B50 | RIPPLE FREE

Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2150	18	≤ 120	500	HRLL1	WW: 2700 W: 3000 X: 3500 N: 4000	ST: fascio stretto narrow beam	-: ON/OFF DL: DALI	<b>Standard:</b> ● WI: White Irazu ● BLL: Black Lava <b>Su richiesta / On request:</b> ● SB: Silver Bombalai ● BL: Bronze Lario ● RR: Rust Rame ● BF: Beige Futura ● GK: Gold Karkar ● BT: Blue Telica
2550	22	≤ 116	600	HRLL2		MD: fascio medio medium beam		
2950	26	≤ 114	700	HRLL3		LA: fascio largo wide beam		
3350	30	≤ 112	800	HRLL4				

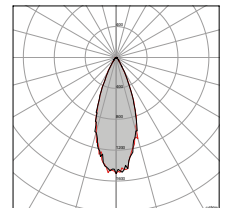
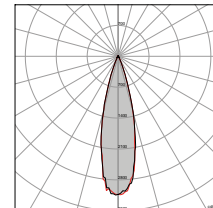
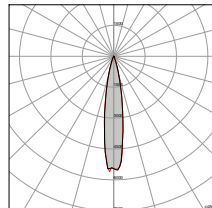
CE  >90 CRI  3SDCM  IP44  IK 07  230 V  50/60 Hz  850°  RG 0  DALI  PD  DIM W  >80 CRI  >95 CRI  VIVID PLUS  VEG PLUS  WHITE PLUS  MEAT PLUS  EM

A richiesta | On request

Ottica ST 12°

Ottica MD 25°

Ottica LA 38°



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.2	1	0.4	1	0.7
2	0.4	2	0.8	2	1.4
3	0.6	3	1.3	3	2.1
4	0.8	4	1.7	4	2.7
5	1.0	5	2.1	5	3.4

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90.  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90.  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%



Fascio medio (MD)  
Medium Beam (MD)

Fascio largo (LA)  
Wide Beam (LA)

Nota/Note  
Ottiche intercambiabili  
Exchangeable optics

Orientabilità  
Adjustability  
Asse X / Axis X 45°  
Asse Y / Axis Y 45°

# GIRO LED

FASCIO/BEAM/FAISCEAU/HAZ MD | LA

Apparecchio LED da incasso orientabile.  
Adjustable recessed LED downlight.  
Luminaire LED encastré orientables.  
Luminaria LED de empotrar orientables.

Corpo ed anello in alluminio pressofuso verniciati con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso ed anodizzato. Ottica in alluminio anodizzato satinato fascio largo (cod. LA) o lucido fascio medio (cod. MD). Sistema di fissaggio ad incasso. Non idonea per applicazione esterna. Sorgente luminosa LED. Emissione diretta. Alimentazione elettronica separata ON/OFF. A richiesta dimmerabile DALI (cod. DL) specificare se con funzione PUSH DIM (cod. PD).

Die-cast aluminium body and ring painted with epoxy powders after phosphating. Extruded anodized aluminium heatsink. Anodized aluminium louver: satin wide beam (code LA) or polish medium beam (code MD). Recessed fixing system. Not suitable for outdoor application. LED light source. Direct light emission. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). PUSH-DIM function (code PD) to be requested.

Corps et colorette de finition en aluminium moulé à la presse, peint avec peinture epoxy poudré après phosphatation. Dissipateur en aluminium extrudé et anodisé. Optique en aluminium anodisé satiné à faisceau large (code LA) ou poli à faisceau moyen (code MD). Système de fixation à encastrement. Non adapté en extérieur. Source lumineuse LED. Émission directe. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI, spécifier la fonction PUSH-DIM (code PD).

Carcasa y anillo en aluminio fundido a presión recubierto con polvo epoxi previamente fosfatado. Difusor de aluminio extruido y anodizado. Óptica de aluminio anodizado. Sistema de fijación de empotrar. Fuente de iluminación LED. Emisión directa. No apta para aplicación en exteriores. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL) especificar si se requiere con función PUSH DIM (cód. PD).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1490	12	≤ 124	350	HRGR1	WW: 2700 W:3000 X:3500 N:4000	MD: fascio medio medium beam LA: fascio largo wide beam	-: ON/OFF DL: DALI	<b>Standard:</b> ● <b>W1:</b> White Irazu ● <b>BL:</b> Black Lava <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
2100	16	≤ 131	450	HRGR2				
2400	20	≤ 120	550	HRGR3				
2760	23,5	≤ 117	650	HRGR4				
2980	26,5	≤ 112	700	HRGR5				
3910	32,5	≤ 120	900	HRGR6				
4460	38,5	≤ 116	1050	HRGR7				



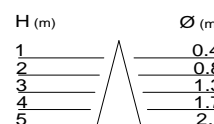
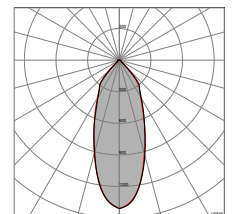
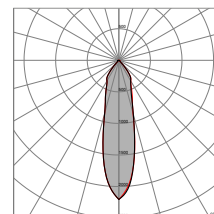
A richiesta | On request

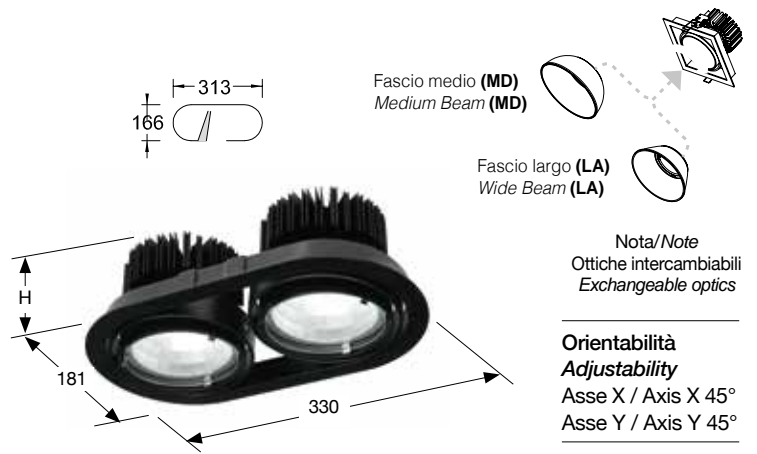
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

Fascio/Beam | MD

Fascio/Beam | LA





## GIRO LED 2

FASCIO/BEAM/FAISCEAU/HAZ MD | LA

Apparecchio LED da incasso orientabile 2 luci.  
Adjustable recessed LED downlight 2 lights.  
Luminaire LED encastré orientables 2 lumières.  
Luminaria LED de empotrar orientables 2 luzes.

Corpo ed anello in alluminio pressofuso verniciati con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso ed anodizzato. Ottica in alluminio anodizzato satinato fascio largo (cod. LA) o lucido fascio medio (cod. MD). Sistema di fissaggio ad incasso. Non idonea per applicazione esterna. Sorgente luminosa LED. Emissione diretta. Alimentazione elettronica separata ON/OFF. A richiesta dimmerabile DALI (cod. DL) specificare se con funzione PUSH DIM (cod. PD).

Die-cast aluminium body and ring painted with epoxy powders after phosphating. Extruded anodized aluminium heatsink. Anodized aluminium louver: satin wide beam (code LA) or polished medium beam (code MD). Recessed fixing system. Not suitable for outdoor application. LED light source. Direct light emission. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). PUSH-DIM function (code PD) to be requested.

Corps et colorette de finition en aluminium moulé à la presse, peint avec peinture epoxy poudré après phosphatation. Dissipateur en aluminium extrudé et anodisé. Optique en aluminium anodisé satiné à faisceau large (code LA) ou poli à faisceau moyen (code MD). Système de fixation à encastrement. Non adapté en extérieur. Source lumineuse LED. Émission directe. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI, spécifier la fonction PUSH-DIM (code PD).

Carcasa y anillo en aluminio fundido a presión recubierto con polvo epoxi previamente fosfatado. Difusor de aluminio extruido y anodizado. Óptica de aluminio anodizado. Sistema de fijación de empotrar. Fuente de iluminación LED. Emisión directa. No apta para aplicación en exteriores. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL) especificar si se requiere con función PUSH DIM (cód. PD).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2980	2x12	≤ 124	350	HRGR21	<b>WW: 2700</b> <b>W:3000</b> <b>X:3500</b> <b>N:4000</b>	<b>MD:</b> fascio medio medium beam  <b>LA:</b> fascio largo wide beam	<b>-:</b> ON/OFF  <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava  <b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
3920	2x16	≤ 123	450	HRGR22				
4790	2x20	≤ 120	550	HRGR23				
5520	2x23,5	≤ 118	650	HRGR24				
5970	2x26,5	≤ 116	700	HRGR25				
7820	2x32,5	≤ 119	900	HRGR26				
8920	2x38,5	≤ 115	1050	HRGR27				

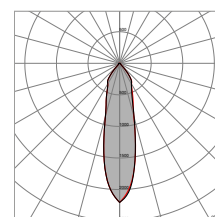


A richiesta | On request

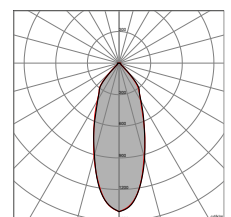
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

Fascio/Beam | MD



Fascio/Beam | LA



H (m)	Ø (m)	H (m)	Ø (m)
1	0.4	1	0.7
2	0.8	2	1.5
3	1.3	3	2.2
4	1.7	4	2.9
5	2.1	5	3.6





# GIRO LED 3

FASCIO/BEAM/FAISCEAU/HAZ ST | MD | LA

Apparecchio LED da incasso orientabile 3 luci.  
Adjustable recessed LED downlight 3 lights.  
Luminaire LED encastré orientables 3 lumières.  
Luminaria LED de empotrar orientables 3 luzes.



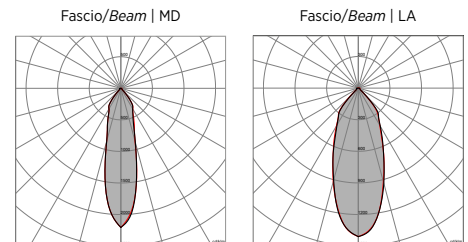
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
4460	3x12	≤ 124	350	HRGR31	<b>WW: 2700</b> <b>W:3000</b> <b>X:3500</b> <b>N:4000</b>	<b>MD:</b> fascio medio medium beam  <b>LA:</b> fascio largo wide beam	-: ON/OFF  <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BL:</b> Black Lava  <b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
5880	3x16	≤ 131	450	HRGR32				
7190	3x20	≤ 120	550	HRGR33				
8280	3x23,5	≤ 117	650	HRGR34				
8950	3x26,5	≤ 112	700	HRGR35				
11720	3x32,5	≤ 120	900	HRGR36				
13380	3x38,5	≤ 116	1050	HRGR37				



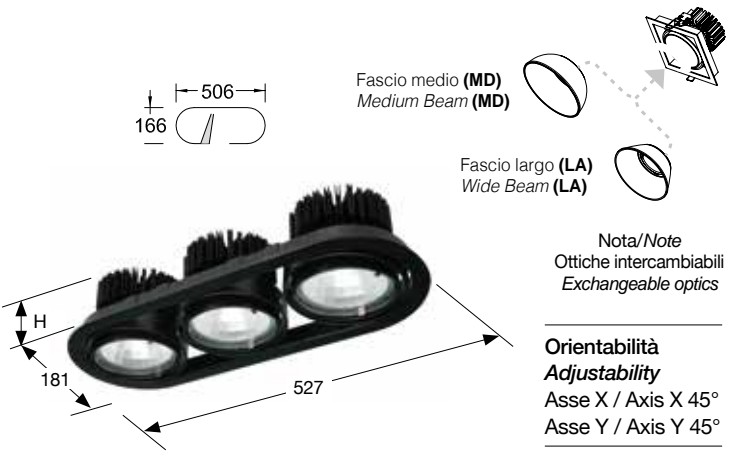
A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%



H (m)	Ø (m)	H (m)	Ø (m)
1	0.4	1	0.7
2	0.8	2	1.5
3	1.3	3	2.2
4	1.7	4	2.9
5	2.1	5	3.6



Corpo ed anello in alluminio pressofuso verniciati con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso ed anodizzato. Ottica in alluminio anodizzato satinato fascio largo (cod. LA) o lucido fascio medio (cod. MD). Sistema di fissaggio ad incasso. Non idonea per applicazione esterna. Sorgente luminosa LED. Emissione diretta. Alimentazione elettronica separata ON/OFF. A richiesta dimmerabile DALI (cod. DL) specificare se con funzione PUSH DIM (cod. PD).

Die-cast aluminium body and ring painted with epoxy powders after phosphating. Extruded anodized aluminium heatsink. Anodized aluminium louver: satin wide beam (code LA) or polish medium beam (code MD). Recessed fixing system. Not suitable for outdoor application. LED light source. Direct light emission. Separate electronic driver ON/OFF. On request: dimmable DALI (code DL). PUSH-DIM function (code PD) to be requested.

Corps et colorette de finition en aluminium moulé à la presse, peint avec peinture epoxy poudré après phosphatation. Dissipateur en aluminium extrudé et anodisé. Optique en aluminium anodisé satiné à faisceau large (code LA) ou poli à faisceau moyen (code MD). Système de fixation à encastrement. Non adapté en extérieur. Source lumineuse LED. Émission directe. Alimentation électronique ON/OFF séparée. Sur demande: dimmable DALI, spécifier la fonction PUSH-DIM (code PD).

Carcasa y anillo en aluminio fundido a presión recubierto con polvo epoxi previamente fosfatado. Difusor de aluminio extruido y anodizado. Óptica de aluminio anodizado. Sistema de fijación de empotrar. Fuente de iluminación LED. Emisión directa. No apta para aplicación en exteriores. Alimentación electrónica ON/OFF separada. A pedido: regulación DALI (cód. DL) especificar si se requiere con función PUSH DIM (cód. PD).



VIKY 55

TUBÌ S

TUBÌ MICRO

DECOR MINI

Apparecchi decorativi per installazione a sospensione.

*Decorative suspensions lighting fittings.*

*Appareil décoratif en suspension.*

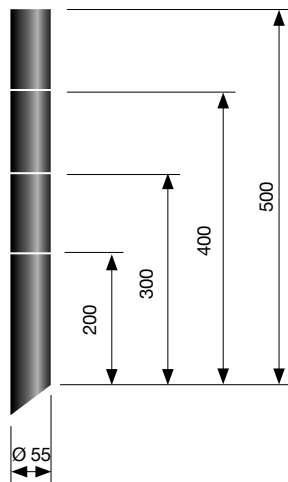
*Luminarias decorativa de suspensión.*

## DECORATIVI A SOSPENSIONE

*DECORATIVE SUSPENSIONS  
DÉCORATIF EN SUSPENSION  
DECORATIVA DE SUSPENSIÓN*







Fascio spot (SP)  
Spot Beam (SP)

Fascio stretto (ST)  
Narrow Beam (ST)

Fascio medio (MD)  
Medium Beam (MD)

Fascio largo (LA)  
Wide Beam (LA)

Nota/Note  
Ottiche intercambiabili senza ausilio di utensili  
Exchangeable optics without using of tools

## VIKY 55

FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Sospensione tubolare decorativa Ø 55 taglio inclinato.  
Decorative tubular suspension Ø 55 inclined cut.  
Suspension tubulaire décorative Ø55 avec coupe biseautée.  
Suspensión decorativa tubular Ø55 con corte inclinado.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a sospensione (completo di cavo L. 2 mt e rosone) o a plafone. Alimentazione elettronica integrata ON/OFF. A richiesta: dimmerabile DALI (cod. DL) specificare se con funzione PUSH DIM (cod. PD).

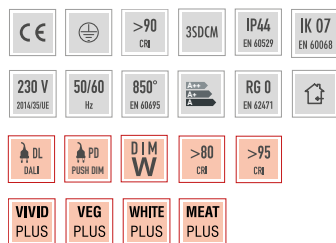
Extruded aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Metallized polycarbonate louvers wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Suspension mounting system (complete with cable 2 mt length and ceiling rose) or ceiling mounting system. Built-in electronic driver ON/OFF. On request: dimmable DALI (code DL) PUSH DIM function (code PD) to be requested.

Corps et dissipateur en aluminium extrudé, corps avec traitement époxy. Optique en polycarbonate métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Système de fixation en suspension (complet avec un câble de 2m et rosace) ou montage au plafond. Alimentation électronique ON/OFF intégrée. Sur demande: dimmable DALI (réf. DL). Spécifier la fonction PUSH DIM (réf. PD).

Cuerpo de aluminio extruido recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Sistema de fijación en suspensión (con 2m de cable y roseta incluidos) o montaje en techo. Alimentación electrónica ON/OFF integrada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour				
<b>VIKY 55 200</b>												
1100	9	≤ 122	250	<b>HRVK21</b>	WW: 2700 W:3000 X:3500 N:4000	SP: fascio spot spot beam ST: fascio stretto narrow beam MD: fascio medio medium beam LA: fascio largo wide beam	-: ON/OFF DL: DALI	Standard: ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava Su richiesta / On request: ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica				
1550	13	≤ 119	350	<b>HRVK22</b>								
<b>VIKY 55 300</b>												
1100	9	≤ 122	250	<b>HRVK31</b>								
1550	13	≤ 119	350	<b>HRVK32</b>								
1850	16	≤ 116	450	<b>HRVK33</b>								
<b>VIKY 55 400</b>												
1100	9	≤ 122	250	<b>HRVK41</b>								
1550	13	≤ 119	350	<b>HRVK42</b>								
1850	16	≤ 116	450	<b>HRVK43</b>								
<b>VIKY 55 500</b>												
1100	9	≤ 122	250	<b>HRVK51</b>								
1550	13	≤ 119	350	<b>HRVK52</b>								
1850	16	≤ 116	450	<b>HRVK53</b>								

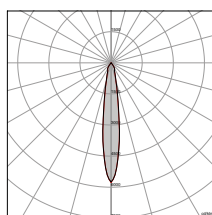


A richiesta | On request

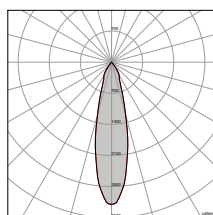
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

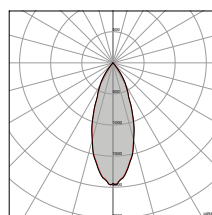
Ottica SP 15°



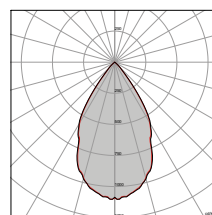
Ottica ST 25°



Ottica MD 40°

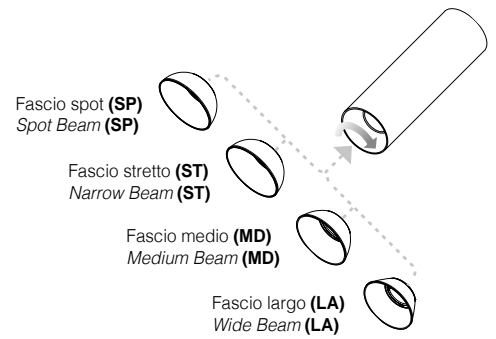
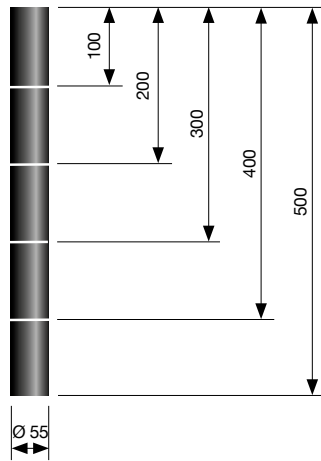


Ottica LA 60°



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	0.7	1	1.1
2	0.5	2	0.9	2	1.5	2	2.3
3	1.7	3	1.3	3	2.2	3	3.5
4	1.0	4	1.8	4	2.9	4	4.6
5	1.2	5	2.2	5	3.6	5	5.8





Nota/Note  
 Ottiche intercambiabili senza ausilio di utensili  
 Exchangeable optics without using of tools

# TUBÌ S

FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Sospensione tubolare decorativa Ø 55.  
 Decorative tubular suspension Ø 55.  
 Suspension tubulaire décorative Ø55.  
 Suspensión decorativa tubular Ø55.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a sospensione (completo di cavo L. 2 mt e rosone) o a plafone. Alimentazione elettronica integrata ON/OFF. A richiesta: dimmerabile DALI (cod. DL) specificare se con funzione PUSH DIM (cod. PD). \* Tubi S100 DALI alimentazione remota.

Extruded aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Suspension mounting system (complete with cable 2 mt length and ceiling rose) or ceiling mounting system. Built-in electronic driver ON/OFF. On request: dimmable DALI (code DL) PUSH DIM function (code PD) to be requested. \* Tubi S100 DALI alimentation a distance.

Corps en aluminium extrudé avec traitement époxy. Dissipateur en aluminium extrudé. Optique en polycarbonate métallisé à faisceau large (réf. LA) moyen (réf. MD) faisceau étroit (réf. ST) faisceau spot (réf. SP). Source lumineuse LED. Emission directe. Système de fixation en suspension (complet avec un câble de 2m et rosace) ou montage au plafond. Alimentation électronique ON/OFF intégrée. Sur demande: dimmable DALI (réf. DL). Spécifier la fonction PUSH DIM (réf. PD). \*TUBI S100 DALI alimentation à distance.

Cuerpo de aluminio extruido recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Sistema de fijación en suspensión (con 2m de cable y roseta incluidos) o montaje en techo. Alimentación electrónica ON/OFF integrada. A pedido: regulación DALI (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD). TUBI S100 DALI alimentación remota.

5Y WARRANTY 5% FAILURE RATE | 60.000 h LED LIFETIME L90B10 | 100.000 h LED LIFETIME L70B50 | RIPPLE FREE

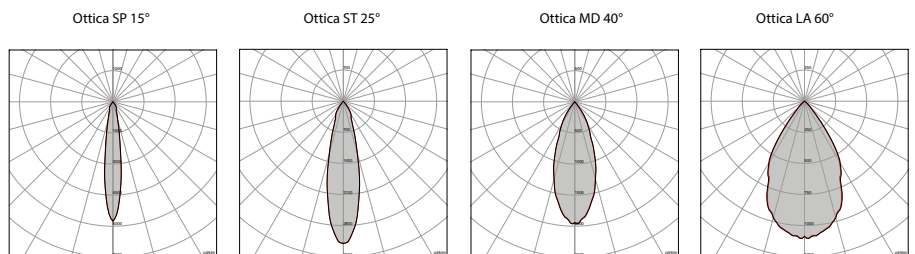
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour				
<b>TUBÌ S100*</b>												
1100	9	≤ 122	250	HRTS11	WW: 2700 W:3000 X:3500 N:4000	SP: fascio spot spot beam ST: fascio stretto narrow beam MD: fascio medio medium beam LA: fascio largo wide beam	-: ON/OFF DL: DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica				
1550	13	≤ 119	350	HRTS12								
<b>TUBÌ S200</b>												
1100	9	≤ 122	250	HRTS21								
1550	13	≤ 119	350	HRTS22								
<b>TUBÌ S300</b>												
1100	9	≤ 122	250	HRTS31								
1550	13	≤ 119	350	HRTS32								
1850	16	≤ 116	450	HRTS33								
<b>TUBÌ S400</b>												
1100	9	≤ 122	250	HRTS41								
1550	13	≤ 119	350	HRTS42								
1850	16	≤ 116	450	HRTS43								
<b>TUBÌ S500</b>												
1100	9	≤ 122	250	HRTS51								
1550	13	≤ 119	350	HRTS52								
1850	16	≤ 116	450	HRTS53								

CE | >90 CRI | 3SDCM | IP44 EN 60529 | IK 07 EN 60068  
 230 V 2014/50/EE | 50/60 Hz | 850° EN 60495 | FATED FREE | RG 0 EN 62471  
 DALI | PD PUSH DIM | DIM W | >80 CRI | >95 CRI  
 VIVID PLUS | VEG PLUS | WHITE PLUS | MEAT PLUS

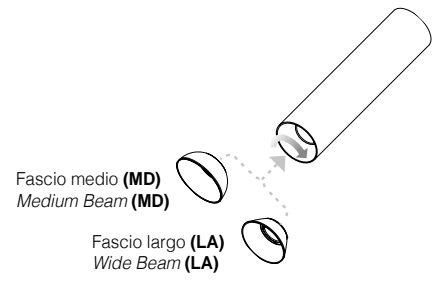
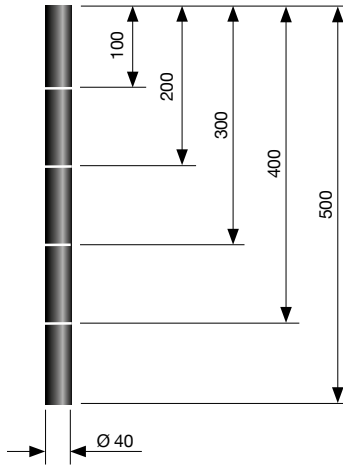
A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	0.7	1	1.1
2	0.5	2	0.9	2	1.5	2	2.3
3	1.7	3	1.3	3	2.2	3	3.5
4	1.0	4	1.8	4	2.9	4	4.6
5	1.2	5	2.2	5	3.6	5	5.8



Nota/Note  
Ottiche intercambiabili senza ausilio di utensili  
Exchangeable optics without using of tools

# TUBÌ MICRO

FASCIO/BEAM/FAISCEAU/HAZ MD | LA

Sospensione tubolare decorativa Ø 40.  
Decorative tubular suspension Ø 40.  
Suspension tubulaire décorative Ø40.  
Suspensión decorativa tubular Ø40.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a sospensione (completo di cavo L. 2 mt e rosone) o a plafone. Alimentazione elettronica integrata ON/OFF (per S100 alimentazione remota). A richiesta: dimmerabile DALI (cod. DL) specificare se con funzione PUSH DIM (cod. PD) alimentazione remota.

Extruded aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD). LED light source. Direct light emission. Suspension mounting system (complete with cable 2 mt length and ceiling rose) or ceiling mounting system. Built-in electronic driver ON/OFF (Remote driver only for S100). On request: dimmable DALI (code DL) PUSH DIM function (code PD) to be requested, remote power supply.

Corps en aluminium extrudé avec traitement époxy. Dissipateur en aluminium extrudé. Optique en polycarbonate métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD). Source lumineuse LED. Emission directe. Système de fixation en suspension (complet avec un câble de 2m et rosace) ou montage au plafond. Alimentation électronique ON/OFF intégrée (pour alimentation à distance S100). Sur demande: dimmable DALI (réf. DL) spécifier la fonction PUSH DIM (réf. PD) alimentation à distance.

Cuerpo de aluminio extruido recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD). Fuente de iluminación LED. Emisión directa. Sistema de fijación en suspensión (con 2m de cable y roseta) o montaje en techo. Alimentación electrónica ON/OFF integrada (alimentación remota para S100). A pedido: regulación DALI (cód. DL). Especificar si se requiere con la función PUSH DIM (cód. PD) alimentación remota.

5Y WARRANTY 5% FAILURE RATE | 60.000 h LED LIFETIME L90B10 | 100.000 h LED LIFETIME L70B50 | RIPPLE FREE

Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
<b>TUBI M S100</b> 620	6,5	≤ 96	180	<b>HRTMS1</b>	<b>WW: 2700</b> <b>W:3000</b> <b>N:4000</b>	<b>MD:</b> fascio medio medium beam <b>LA:</b> fascio largo wide beam	<b>-:</b> ON/OFF <b>DL:</b> DALI	<b>Standard:</b> <ul style="list-style-type: none"> <li>● <b>WI:</b> White Irazu</li> <li>● <b>BLL:</b> Black Lava</li> </ul> <b>Su richiesta /On request:</b> <ul style="list-style-type: none"> <li>● <b>SB:</b> Silver Bombalai</li> <li>● <b>BL:</b> Bronze Lario</li> <li>● <b>RR:</b> Rust Rame</li> <li>● <b>BF:</b> Beige Futura</li> <li>● <b>GK:</b> Gold Karkar</li> <li>● <b>BT:</b> Blue Telica</li> </ul>
<b>TUBI M S200</b> 620	6,5	≤ 96	180	<b>HRTMS2</b>				
<b>TUBI M S300</b> 620	6,5	≤ 96	180	<b>HRTMS3</b>				
<b>TUBI M S400</b> 620	6,5	≤ 96	180	<b>HRTMS4</b>				
<b>TUBI M S500</b> 620	6,5	≤ 96	180	<b>HRTMS5</b>				

CE | >90 CRI | 3SDCM | IP44 | IK 07 | 230 V | 50/60 Hz | 850° | DALI | RG 0 | EN 62471 | DL DALI | PD PUSH DIM

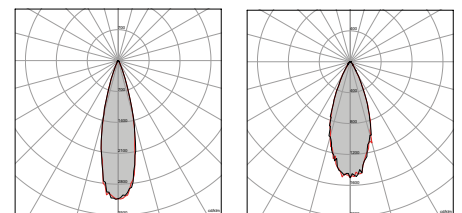
A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

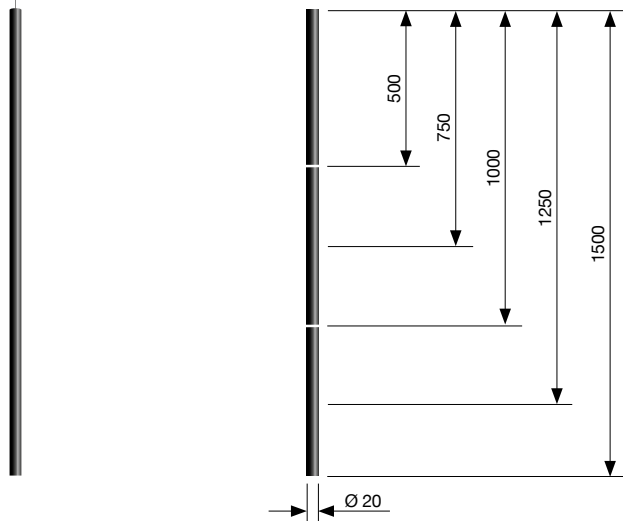
Ottica MD 24°

Ottica LA 36°



H (m)	Ø (m)	H (m)	Ø (m)
1	0.4	1	0.7
2	0.8	2	1.4
3	1.3	3	2.1
4	1.7	4	2.7
5	2.1	5	3.4





# DECOR MINI

FASCIO/BEAM/FAISCEAU/HAZ MD

Sospensione tubolare decorativa Ø 20.  
Decorative tubular suspension Ø 20.  
Suspension tubulaire décorative Ø20.  
Suspensión decorativa tubular Ø20.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Dissipatore in alluminio estruso. Ottica in policarbonato lenticolare fascio medio (cod. MD). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a sospensione (completo di cavo L. 2 mt e rosone). Alimentazione 24 Vcc elettronica esterna ON/OFF. Alimentatore non incluso, da ordinare separatamente. A richiesta: dimmerabile 24 Vcc esterna DALI (cod. DL) specificare se con funzione PUSH DIM (cod. PD).

Extruded aluminium body painted with epoxy powders after phosphating. Extruded aluminium heatsink. Lenticular polycarbonate louver medium beam (code MD). LED light source. Direct light emission. Suspension mounting system (complete with cable 2m length and ceiling rose). External electronic driver ON/OFF 24 Vcc. Driver not included, to be ordered separately. On request: external dimmable DALI 24 Vcc (code DL) PUSH DIM function (code PD) to be requested.

Corps en aluminium extrudé avec traitement époxy. Dissipateur en aluminium extrudé. Optique lenticulaire en polycarbonate à faisceau moyen (réf. MD). Source lumineuse LED. Emission directe. Système de fixation en suspension (complet avec 2m de câble et rosace) ou fixation au plafond. Alimentation électronique ON/OFF 24 Vcc externe. Sur demande: Dimmable DALI 24Vcc externe (réf. DL). Spécifier la fonction PUSH DIM (réf. PD).

Cuerpo de aluminio extruido recubierto con polvo epoxi previamente fosfatado. Disipador de aluminio extruido. Óptica lenticular de policarbonato de haz medio (cód. MD). Fuente de iluminación LED. Emisión directa. Sistema de fijación en suspensión (con 2m de cable y roseta) o montaje em techo. Alimentación electrónica 24V ON/OFF externa. A pedido: regulación DALI 24V externa (cód. DL). Especificar si se requiere con función PUSH DIM (cód. PD).

5Y WARRANTY 5% FAILURE RATE
60.000 h LED LIFETIME L90B10
100.000 h LED LIFETIME L70B50
 RIPPLE FREE

Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
<b>DECOR M50</b> 220	2,1	≤ 104	24	<b>HRDM1</b>	<b>WW: 2700</b> <b>W:3000</b> <b>N:4000</b>	<b>MD:</b> fascio medio medium beam	-: ON/OFF <b>DL:</b> DALI	<b>Standard:</b> ● <b>WL:</b> White Irazu ● <b>BLL:</b> Black Lava  <b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
<b>DECOR M75</b> 220	2,1	≤ 104	24	<b>HRDM2</b>				
<b>DECOR M100</b> 220	2,1	≤ 104	24	<b>HRDM3</b>				
<b>DECOR M125</b> 220	2,1	≤ 104	24	<b>HRDM4</b>				
<b>DECOR M150</b> 220	2,1	≤ 104	24	<b>HRDM5</b>				

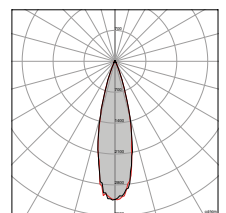
CE
III
>90 CRI
3SDCM
IP44 EN 60529
IK 07 EN 60068
24 V 2014/25/06 EN 60895
850°
RG 0 EN 62471
DL DALI
PD PUSH DIM

A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

Ottica MD 24°



H (m)	Ø (m)
1	0.4
2	0.8
3	1.3
4	1.7
5	2.1



SPECIALE ROSONI

SPECIAL ROSES

PATÈRES SPÉCIALES

ROSETAS ESPECIALES

A richiesta rosoni speciali con dimensione personalizzabile.

*On request special roses with customizable dimension.*

*Sur demande patères spéciales sur mesure.*

*Bajo pedido rosetas especiales con dimensiones personalizadas.*

## DECORATIVI A SOSPENSIONE

*DECORATIVE SUSPENSIONS*

*DÉCORATIF EN SUSPENSION*

*DECORATIVA DE SUSPENSIÓN*





ARCO



APPOGGIO 595x595 mm



ANELLO



SOLE



ONDA

REAL

TATI

OPO

OPO SLIM

LOFT

COCO LED

COCO LED LENS

BLEK

FOCO

BASKET

LULY SHOP

MACISTE

BOLERO

BOLERINO

PLATÒ

MAGGIOLINA

Sistema di apparecchi illuminotecnici LED a sospensione, plafone e binario.

*Suspension, ceiling and track LED lighting fittings system.*

*Luminaire LED en suspension, en saillie, sur rail.*

*Luminarias LED con montaje en suspensión, en techo, de carril.*

## **SOSPENSIONE PLAFONE BINARIO**

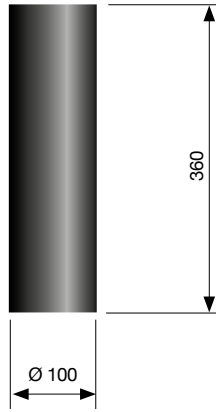
*SUSPENSION CEILING TRACK*

*SUSPENSION SAILLIE RAIL*

*SUSPENSIÓN TECHO CARRIL*







# REAL

## FASCIO/BEAM/FAISCEAU/HAZ LA

Sospensione decorativa.  
Decorative suspension.  
Suspension décorative.  
Suspensión decorativa.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Completa di cavo di sospensione L. 2 m e rosone. Dissipatore in alluminio estruso. Ottica in policarbonato opale. Sorgente luminosa LED. Emissione diretta e indiretta. Sistema di fissaggio a sospensione. Per installazione a binario: accessorio attacco a binario (cod. TK). Alimentazione elettronica integrata ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Extruded aluminium body painted with epoxy powders after phosphating. Complete with suspension cable 2 m length and ceiling rose. Extruded aluminium heatsink. Opal polycarbonate louver. LED light source. Direct and indirect light emission. Suspension mounting system. Track mounting system accessory (cod. TK). Built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium extrudé avec traitement époxy. Fourni avec un câble de suspension de 2m et rosace. Dissipateur en aluminium extrudé. Optique en polycarbonate opal. Source lumineuse LED. Emission directe et indirecte. Fixation en suspension (accessoire pour installation sur rail : réf. TK). Alimentation électronique ON/OFF intégrée. Sur demande: dimmable DALI (réf. DL).

Cuerpo de aluminio extruido recubierto con polvo epoxi previamente fosfatado. Suministrado con 2m de cable de suspensión y roseta. Disipador de aluminio extruido. Óptica de policarbonato opal. Fuente de iluminación LED. Emisión directa e indirecta. Fijación en suspensión (accesorio para instalación en carril: cód. TK). Alimentación electrónica ON/OFF integrada. A pedido: regulación DALI (cód. DL).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1410 + 1330	11 + 11	≤ 128	450	HRRE1	WW: 2700 W:3000 X:3500 N:4000	LA: fascio largo wide beam	-: ON/OFF DL: DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica

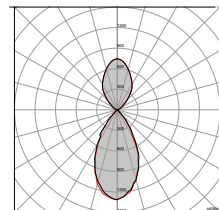


A richiesta | On request

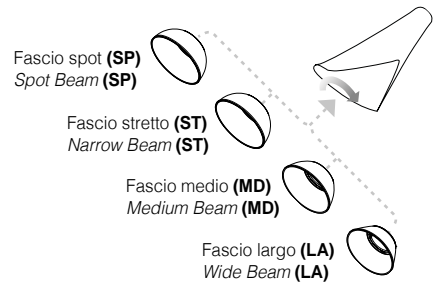
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

Ottica Diretta 53° / Indiretta 70°



H (m)	Ø (m)	H (m)	Ø (m)
1	1.0	5	7.0
2	2.0	4	5.6
3	2.8	3	4.2
4	4.0	2	2.8
5	5.0	1	1.4



Nota/Note  
 Ottiche intercambiabili senza ausilio di utensili  
 Exchangeable optics without using of tools

# TATI

FASCIO/BEAM/FAISCEAU/HAZ SP | ST | MD | LA

Sospensione decorativa con ottiche intercambiabili.  
 Decorative suspension with exchangeable optics.  
 Suspension décorative avec optiques échangeables.  
 Suspensión decorativa con ópticas intercambiables.

Corpo in lastra d'alluminio tornito verniciato con polveri epossidiche previa fosfatazione. Completa di cavo di sospensione L. 2 m e rosone. Dissipatore in alluminio estruso. Ottica in policarbonato metallizzato fascio largo (cod. LA) fascio medio (cod. MD) fascio stretto (cod. ST) fascio spot (cod. SP). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a sospensione. Per installazione a binario: accessorio attacco a binario (cod. TK). Alimentazione elettronica integrata ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Turned aluminium body painted with epoxy powders after phosphating. Complete with suspension cable 2 m length and ceiling rose. Extruded aluminium heatsink. Metallized polycarbonate louver wide beam (code LA) medium beam (code MD) narrow beam (code ST) spot beam (code SP). LED light source. Direct light emission. Suspension mounting system. Track mounting system accessory (code TK). Built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en tôle d'aluminium tournée avec traitement époxy. Fourni avec un câble de suspension de 2m et rosace. Dissipateur en aluminium extrudé. Optique en polycarbonate métallisé à faisceau large (réf. LA) faisceau moyen (réf. MD), faisceau étroit (réf. ST) faisceau spot (réf. SP), source lumineuse LED. Emission directe. Fixation en suspension (accessoire pour installation sur rail : réf. TK). Alimentation électronique ON/OFF intégrée. Sur demande: dimmable DALI (réf. DL).

Cuerpo de lámina de aluminio torneada con polvo epoxi previamente fosfatado. Con 2m de cable de suspensión y roseta incluidos. Disipador de aluminio extruido. Óptica de policarbonato metalizado de haz amplio (cód. LA) haz medio (cód. MD) haz estrecho (cód. ST) haz spot (cód. SP). Fuente de iluminación LED. Emisión directa. Fijación en suspensión (accesorio para instalación en carril: cód. TK). Alimentación electrónica integrada. A pedido: regulación DALI (cód. DL).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
890	7	≤ 127	200	HRTA1	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	<b>SP:</b> fascio spot spot beam <b>ST:</b> fascio stretto narrow beam <b>MD:</b> fascio medio medium beam <b>LA:</b> fascio largo wide beam	-: ON/OFF  <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
1100	9	≤ 122	250	HRTA2				
1350	11	≤ 121	300	HRTA3				

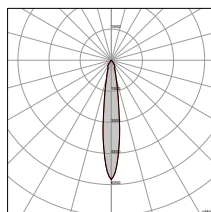


A richiesta | On request

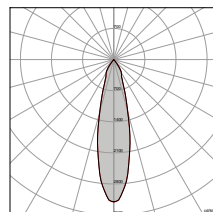
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

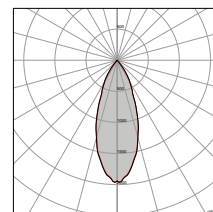
Ottica SP 15°



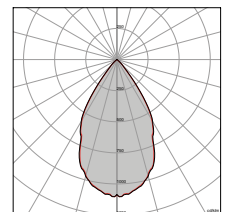
Ottica ST 25°



Ottica MD 40°



Ottica LA 60°



H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.3	1	0.4	1	0.7	1	1.1
2	0.5	2	0.9	2	1.5	2	2.3
3	1.7	3	1.3	3	2.2	3	3.5
4	1.0	4	1.8	4	2.9	4	4.6
5	1.2	5	2.2	5	3.6	5	5.8





# OPO

## SCHERMO OPALE / OPAL DIFFUSER

Sospensione decorativa.  
Decorative suspension.  
Suspension décorative.  
Suspensión decorativa.

Corpo in lastra d'alluminio tornito verniciato con polveri epossidiche previa fosfatazione. Completa di cavo di sospensione L. 2 m e rosone. Dissipatore in alluminio estruso. Ottica in policarbonato opale. Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a sospensione. Per installazione a binario: accessorio attacco a binario (cod. TK). Alimentazione elettronica integrata ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Turned aluminium body painted with epoxy powders after phosphating. Complete with suspension cable 2 mt length and ceiling rose. Extruded aluminium heatsink. Opal polycarbonate louver. LED light source. Direct light emission. Suspension mounting system. Track mounting system accessory (cod. TK). Built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en tôle d'aluminium tournée avec traitement époxy. Fourni avec un câble de suspension de 2m et rosace. Dissipateur en aluminium extrudé. Optique en polycarbonate opal. Source lumineuse LED. Emission directe. Fixation en suspension (accessoire pour installation sur rail : réf. TK). Alimentation électronique ON/OFF intégrée. Sur demande: dimmable DALI (réf. DL).

Cuerpo de lámina de aluminio torneada con polvo epoxi previamente fosfatado. Con 2m de cable de suspensión y roseta incluidos. Disipador de aluminio extruido. Óptica de policarbonato opal. Fuente de iluminación LED. Emisión directa. Fijación en suspensión (accesorio para instalación en carril: cód. TK). Alimentación electrónica integrada. A pedido: regulación DALI (cód. DL).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Schermo Diffuser	Alimentazione Power Supply	Colore Colour
890	7	≤ 127	200	<b>HROPO1</b>	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	Opale Opal	-: ON/OFF  <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava  <b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
1100	9	≤ 122	250	<b>HROPO2</b>				
1350	11	≤ 121	300	<b>HROPO3</b>				

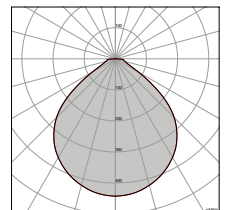


A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

Ottica LA 100°



H (m)	Ø (m)
1	2.4
2	4.8
3	7.2
4	9.5
5	12



# OPO SLIM

## SCHERMO OPALE / OPAL DIFFUSER

Sospensione decorativa.  
Decorative suspension.  
Suspension décorative.  
Suspensión decorativa.

Corpo in lastra d'alluminio tornito verniciato con polveri epossidiche previa fosfatazione. Completa di cavo di sospensione L. 2 m e rosone. Dissipatore in alluminio estruso. Ottica in policarbonato opale. Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a sospensione. Per installazione a binario: accessorio attacco a binario (cod. TK). Alimentazione elettronica integrata ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Turned aluminium body painted with epoxy powders after phosphating. Complete with suspension cable 2 m length and ceiling rose. Extruded aluminium heatsink. Opal polycarbonate louver. LED light source. Direct light emission. Suspension mounting system. Track mounting system accessory (cod. TK). Built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en tôle d'aluminium tournée avec traitement époxy. Fourni avec un câble de suspension de 2m et rosace. Dissipateur en aluminium extrudé. Optique en polycarbonate opal. Source lumineuse LED. Emission directe. Fixation en suspension (accessoire pour installation sur rail : réf. TK). Alimentation électronique ON/OFF intégrée. Sur demande: dimmable DALI (réf. DL).

Cuerpo de lámina de aluminio torneada con polvo epoxi previamente fosfatado. Con 2m de cable de suspensión y roseta incluidos. Disipador de aluminio extruido. Óptica de policarbonato opal. Fuente de iluminación LED. Emisión directa. Fijación en suspensión (accesorio para instalación en carril: cód. TK). Alimentación electrónica integrada. A pedido: regulación DALI (cód. DL).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Schermo Diffuser	Alimentazione Power Supply	Colore Colour
890	7	≤ 127	200	<b>HROPS1</b>	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	Opale Opal	-: ON/OFF  <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava  <b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
1100	9	≤ 122	250	<b>HROPS2</b>				
1350	11	≤ 121	300	<b>HROPS3</b>				

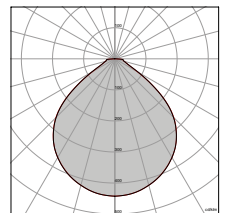


A richiesta | On request

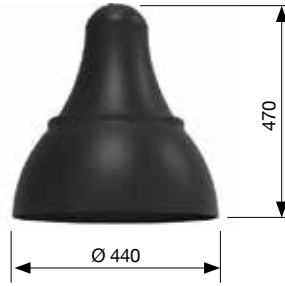
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

Ottica LA 100°



H (m)	Ø (m)
1	2.4
2	4.8
3	7.2
4	9.5
5	12



# LOFT

## SCHERMO OPALE / OPAL DIFFUSER

Sospensione decorativa.  
Decorative suspension.  
Suspension décorative.  
Suspensión decorativa.

Corpo in lastra d'alluminio tornito verniciato con polveri epossidiche previa fosfatazione. Completa di cavo di sospensione L. 2 m e rosone. Dissipatore in alluminio estruso. Ottica in policarbonato opale. Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a sospensione. Per installazione a binario: accessorio attacco a binario (cod. TK). Alimentazione elettronica integrata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Emergenza autonomia 1h/3h..

Turned aluminium body painted with epoxy powders after phosphating. Complete with suspension cable 2 m length and ceiling rose. Extruded aluminium heatsink. Opal polycarbonate louver. LED light source. Direct light emission. Suspension mounting system. Track mounting system accessory (cod. TK). Built-in electronic driver ON/OFF. On request: dimmable DALI (code DL). Emergency autonomy 1h/3h.

Corps en tôle d'aluminium tournée avec traitement époxy. Fourni avec un câble de suspension de 2 m. et rosace. Dissipateur en aluminium extrudé. Optique en polycarbonate opal. Source lumineuse LED. Emission directe. Fixation en suspension (accessoire pour installation sur rail: réf. TK). Alimentation électronique ON/OFF intégrée. Sur demande: dimmable DALI (réf. DL). Autonomie d'urgence 1h/3h.

Cuerpo de lámina de aluminio torneada con polvo epoxi previamente fosfatado. Con 2m de cable de suspensión y roseta incluidos. Disipador de aluminio extruido. Óptica de policarbonato opal. Fuente de iluminación LED. Emisión directa. Fijación en suspensión (accesorio para instalación en carril: cód. TK). Alimentación electrónica ON/OFF integrada. A pedido: regulación DALI (cód. DL). Autonomía de emergencia 1h/3h.

**5Y WARRANTY**  
5% FAILURE RATE

**60.000 h**  
LED LIFETIME L90B10

**100.000 h**  
LED LIFETIME L70B50

**RIPPLE FREE**

Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
1465	11	≤ 131	250	<b>HRLO1</b>	<b>WW: 2700</b> <b>W:3000</b> <b>X:3500</b> <b>N:4000</b>	Opale Opal	-: ON/OFF  <b>DL: DALI</b>	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava
1975	16	≤ 123	350	<b>HRLO2</b>				<b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
2470	20	≤ 123	450	<b>HRLO3</b>				
2560	22	≤ 116	500	<b>HRLO4</b>				
3275	27	≤ 124	600	<b>HRLO5</b>				

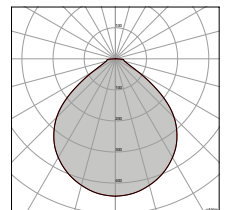
CE, ENEC, >90 CRI, 3SDCM, IP44, IK 07, 230 V, 50/60 Hz, 850°, DALI, RG 0, DALI, >80 CRI, >95 CRI, VIVID PLUS, VEG PLUS, WHITE PLUS, MEAT PLUS, EM, TK

A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

Ottica LA 100°



H (m)	Ø (m)
1	2.4
2	4.8
3	7.2
4	9.5
5	12







## COCO LED

Sospensione LED per l'illuminazione di aree commerciali e negozi.  
*LED fitting for lighting of commercial areas and showroom.*  
 Suspension LED pour l'éclairage de centres commerciaux et magasins.  
 Luminaria de suspensión LED para iluminación de centros comerciales y tiendas.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Completo di cavo di sospensione L. 2 m e rosone. Riflettore in alluminio tornito anodizzato. Vetro di chiusura sabbato. Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a sospensione. Per installazione a binario: accessorio attacco a binario (cod. TK). Alimentazione elettronica integrata ON/OFF. A richiesta dimmerabile DALI (cod. DL). Emergenza autonomia 1h/3h.

*Extruded aluminium body painted with epoxy powders after phosphating. Complete with suspension cable 2 m length and ceiling rose. Anodized turned aluminium reflector. Sandblasted closing glass. LED light source. Direct light emission. Suspension mounting system. Track mounting system accessory (cod. TK). Built-in electronic driver ON/OFF. On request: dimmable DALI (code DL). Emergency autonomy 1h/3h.*

*Corps en aluminium extrudé peint avec des poudres époxy après phosphatation. Vendu avec patère et câble de suspension L. 2 m. Réflecteur en aluminium anodisé. Verre de fermeture sablé. Source de lumière LED. Émission directe. Système de fixation en suspension. Pour l'installation du rail : accessoire de connexion pour rail (code TK). Alimentation électronique intégrée ON/OFF. Sur demande dimmable DALI (réf. DL). Autonomie secours 1h/3h.*

*Cuerpo de aluminio extruido barnizado con polvo epoxi previamente fosfatado. Cable de suspensión de 2 m y roseta incluidos. Reflector de aluminio torneado y anodizado. Vidro de cierre arenado. Fuente de iluminación LED. Emisión directa. Sistema de fijación en suspensión. Instalación para carril: adaptador (código TK). Alimentación electrónica integrada ON/OFF. Bajo pedido: regulable DALI (código DL). Grupo de emergencia de 1h o 3h.*



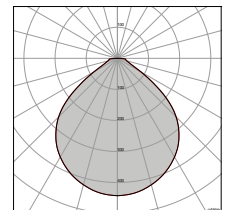
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Schermo Diffuser	Alimentazione Power Supply	Colore Colour
4400	40	≤ 110	250	<b>HRCC1</b>	<b>W:3000 N:4000</b>	vetro sabbato sandblasted glass	-: ON/OFF  <b>DL: DALI</b>	<b>Standard:</b>
5950	58,5	≤ 102	350	<b>HRCC2</b>				● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava
7700	77,5	≤ 99	450	<b>HRCC3</b>				<b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica



A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%



H (m)	Ø (m)
1	2.4
2	4.8
3	7.2
4	9.5
5	12



## COCO LED LENS

Sospensione LED per l'illuminazione di aree commerciali e negozi.  
 LED fitting for lighting of commercial areas and showroom.  
 Suspension LED pour l'éclairage de centres commerciaux et magasins.  
 Luminaria de suspensión LED para iluminación de centros comerciales y tiendas.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Completo di cavo di sospensione L. 2 m e rosone. Dissipatore in alluminio estruso. Diffusore e schermo di chiusura in policarbonato opale rigato. Sorgente luminosa LED. Emissione diffusa. Sistema di fissaggio a sospensione. Per installazione a binario: accessorio attacco a binario (cod. TK). Alimentazione elettronica integrata ON/OFF. A richiesta dimmerabile DALI (cod. DL). Emergenza autonomia 1h/3h.

Extruded aluminium body painted with epoxy powders after phosphating. Complete with suspension cable 2 mt length and ceiling rose. Extruded aluminium heatsink. Opal ribbed polycarbonate diffuser and closing screen. LED light source. Diffuse light emission. Suspension mounting system. Track mounting system accessory (cod. TK). Built-in electronic driver ON/OFF. On request: dimmable DALI (code DL). Emergency autonomy 1h/3h.

Corps en aluminium extrudé peint avec des poudres époxy après phosphatation. Vendu avec patère et câble de suspension L. 2 m. Diffuseur et écran de fermeture en polycarbonate opale rainuré. Dissipateur en aluminium extrusé. Source de lumière LED. Émission diffuse. Système de fixation de suspension. Pour l'installation du rail: accessoire de connexion rail (réf. TK). Alimentation électronique intégrée ON/OFF. Sur demande dimmable DALI (réf. DL). Autonomie secours 1h/3h.

Cuerpo de aluminio extruido barnizado con polvo epoxi previamente fosfatado. Cable de suspensión de 2 m y roseta incluidos. Difusor y cierre de policarbonato opal rayado. Disipador de aluminio extruido. Fuente de iluminación LED. Emisión difundida. Sistema de fijación en suspensión. Instalación para carril: adaptador (código TK). Alimentación electrónica integrada ON/OFF. Bajo pedido: regulable DALI (código DL). Grupo de emergencia de 1h o 3h.



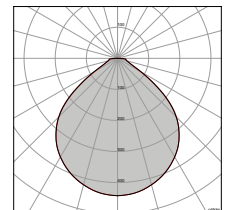
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Schermo Diffuser	Alimentazione Power Supply	Colore Colour
1465	11	≤ 131	250	<b>HRCCL1</b>	<b>W:3000 N:4000</b>	opale rigato ribbed opal	-: ON/OFF  <b>DL: DALI</b>	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
1975	16	≤ 123	350	<b>HRCCL2</b>				
2470	20	≤ 123	450	<b>HRCCL3</b>				



A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%



H (m)	Ø (m)
1	2.4
2	4.8
3	7.2
4	9.5
5	12







## BLEK

Sospensione decorativa.  
Decorative suspension.  
Suspension décorative.  
Suspensión decorativa.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Completa di cavo di sospensione L. 2 m e rosone. Riflettore prismaticizzato in alluminio tornito verniciato. Ottica in policarbonato opale. Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a sospensione. Per installazione a binario: accessorio attacco a binario (cod. TK). Alimentazione elettronica integrata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Emergenza autonomia 1h/3h.

Extruded aluminium body painted with epoxy powders after phosphating. Complete with suspension cable 2 m length and ceiling rose. Painted turned aluminium reflector. Opal polycarbonate louver. LED light source. Direct light emission. Suspension mounting system. Track mounting system accessory (cod. TK). Built-in electronic driver ON/OFF. On request: dimmable DALI (code DL). Emergency autonomy 1h/3h.

Corps en tôle d'aluminium tournée avec traitement époxy. Fourni avec un câble de suspension de 2m. et rosace. Réflecteur prismatique en aluminium tourné peint. Optique en polycarbonate opal. Source lumineuse LED. Emission directe. Fixation en suspension (accessoire pour installation sur rail : réf. TK). Alimentation électronique ON/OFF intégrée. Sur demande: dimmable DALI (réf. DL). Autonomie d'urgence 1h/3h.

Cuerpo de lámina de aluminio torneada con polvo epoxi previamente fosfatado. Con 2m de cable de suspensión y roseta incluidos. Reflector prismático de aluminio torneado pintado. Óptica de policarbonato opal. Fuente de iluminación LED. Emisión directa. Fijación en suspensión (accesorio para instalación en carril: cód. TK). Alimentación electrónica ON/OFF integrada. A pedido: regulación DALI (cód. DL). Autonomía de emergencia 1h/3h.



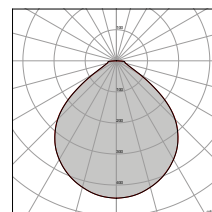
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Schermo Diffuser	Alimentazione Power Supply	Colore Colour
1465	11	≤ 131	250	HRBL1	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	opale opal	-: ON/OFF  DL: DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BL:</b> Black Lava <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
1975	16	≤ 123	350	HRBL2				
2470	20	≤ 123	450	HRBL3				
2560	22	≤ 116	500	HRBL4				
3275	27	≤ 124	600	HRBL5				



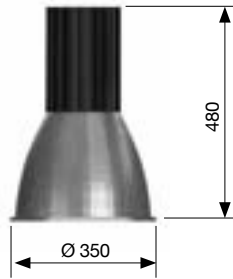
A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%



H (m)	Ø (m)
1	2.4
2	4.8
3	7.2
4	9.5
5	12



# FOCO

Sospensione decorativa.  
Decorative suspension.  
Suspension décorative.  
Suspensión decorativa.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Completa di cavo di sospensione L. 2 m e rosone. Riflettore prismaticizzato in alluminio tornito anodizzato. Ottica in policarbonato opale. Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a sospensione. Per installazione a binario: accessorio attacco a binario (cod. TK). Alimentazione elettronica integrata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Emergenza autonomia 1h/3h.

Extruded aluminium body painted with epoxy powders after phosphating. Complete with suspension cable 2 m length and ceiling rose. Anodized turned aluminium reflector. Opal polycarbonate louver. LED light source. Direct light emission. Suspension mounting system. Track mounting system accessory (cod. TK). Built-in electronic driver ON/OFF. On request: dimmable DALI (code DL). Emergency autonomy 1h/3h.

Corps en tôle d'aluminium tournée, avec traitement époxy. Fourni avec un câble de suspension de 2m. et rosace. Réflecteur prismatique en aluminium tourné et anodisé. Optique en polycarbonate opal. Source lumineuse LED. Emission directe. Fixation en suspension (accessoire pour installation sur rail : réf. TK). Alimentation électronique ON/OFF intégrée. Sur demande: dimmable DALI (réf. DL). Autonomie d'urgence 1h/3h.

Cuerpo de lámina de aluminio torneada con polvo epoxi previamente fosfatado. Con 2m de cable de suspensión y roseta incluidos. Reflector prismático de aluminio torneado y anodizado. Óptica de policarbonato opal. Fuente de iluminación LED. Emisión directa. Fijación en suspensión (accesorio para instalación en carril: cód. TK). Alimentación electrónica ON/OFF integrada. A pedido: regulación DALI (cód. DL). Autonomía de emergencia 1h/3h.



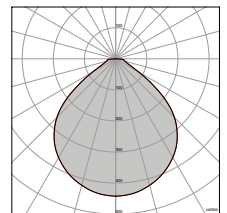
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Schermo Diffuser	Alimentazione Power Supply	Colore Colour
1465	11	≤ 131	250	HRFO1	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	opale opal	-: ON/OFF  DL: DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
1975	16	≤ 123	350	HRFO2				
2470	20	≤ 123	450	HRFO3				
2560	22	≤ 116	500	HRFO4				
3275	27	≤ 124	600	HRFO5				



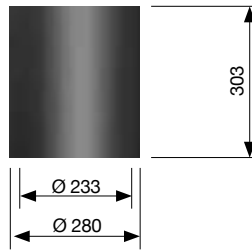
A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%



H (m)	Ø (m)
1	2.4
2	4.8
3	7.2
4	9.5
5	12



## BASKET

Sospensione decorativa.  
Decorative suspension.  
Suspension décorative.  
Suspensión decorativa.

Corpo in lastra d'alluminio tornito verniciato con polveri epossidiche previa fosfatazione. Completa di cavo di sospensione L. 2 m e rosone. Dissipatore in alluminio estruso. Ottica in policarbonato opale. Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a sospensione. Per installazione a binario: accessorio attacco a binario (cod. TK). Alimentazione elettronica integrata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Emergenza autonomia 1h/3h.

Turned aluminium body painted with epoxy powders after phosphating. Complete with suspension cable 2 m length and ceiling rose. Extruded aluminium heatsink. Opal polycarbonate louver. LED light source. Direct light emission. Suspension mounting system. Track mounting system accessory (cod. TK). Built-in electronic driver ON/OFF. On request: dimmable DALI (code DL). Emergency autonomy 1h/3h.

Corps en tôle d'aluminium tournée avec traitement époxy. Fourni avec un câble de suspension de 2m. et rosace. Dissipateur en aluminium extrudé. Optique en polycarbonate opal. Source lumineuse LED. Emission directe. Fixation en suspension (accessoire pour installation sur rail : réf. TK). Alimentation électronique ON/OFF intégrée. Sur demande: dimmable DALI (réf. DL). Autonomie d'urgence 1h/3h.

Cuerpo de lámina de aluminio torneada con polvo epoxi previamente fosfatado. Con 2m de cable de suspensión y roseta incluidos. Disipador de aluminio extruido. Óptica de policarbonato opal. Fuente de iluminación LED. Emisión directa. Fijación en suspensión (accesorio para instalación en carril: cód. TK). Alimentación electrónica ON/OFF integrada. A pedido: regulación DALI (cód. DL). Autonomía de emergencia 1h/3h.



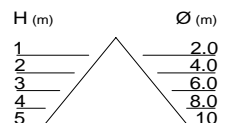
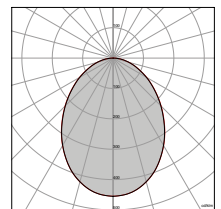
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Schermo Diffuser	Alimentazione Power Supply	Colore Colour
4820	42	≤ 114	350	<b>HRBK1</b>	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	opale opal	-: ON/OFF <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
6100	54	≤ 110	450	<b>HRBK2</b>				
8700	87	≤ 100	700	<b>HRBK3</b>				

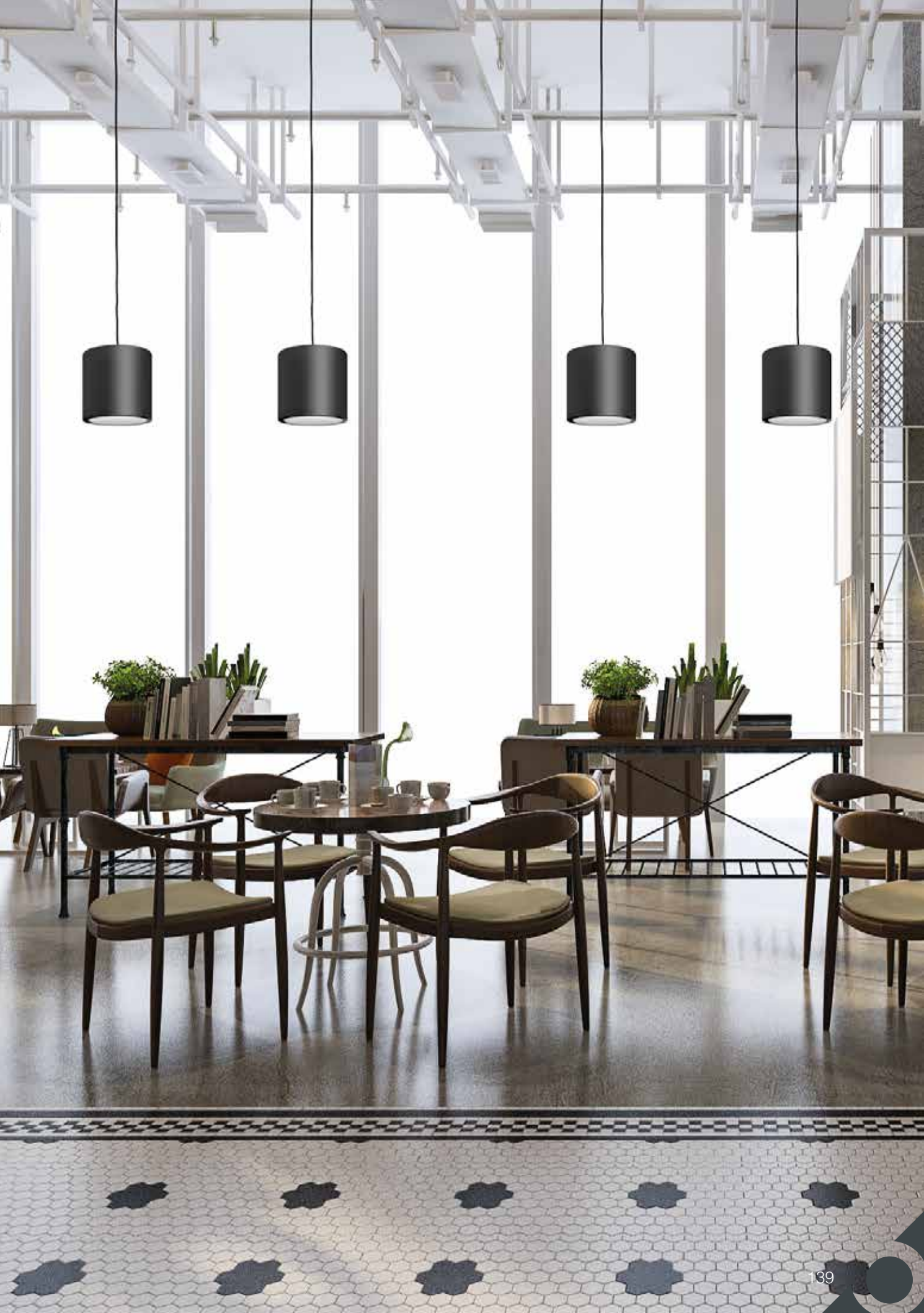


A richiesta | On request

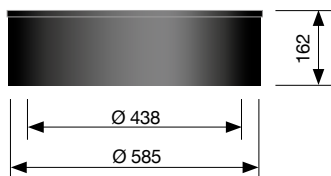
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%









## LULY SHOP

Apparecchio decorativo per installazione a sospensione.  
Decorative suspension lighting fitting.  
Appareil décoratif en suspension.  
Luminaria decorativa de suspensión.

Corpo in alluminio verniciato con polveri epossidiche previa fosfatazione. Completo di n. 3 cavi di sospensione L. 2 m e rosone d'alimentazione. Riflettore in alluminio tornito anodizzato. Ottica in vetro satinato. Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a sospensione. Staffa per installazione a plafone cod. HRLUSH-ST. Alimentazione elettronica integrata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Emergenza autonomia 1h/3h.

Extruded aluminium body painted with epoxy powders after phosphating. Complete with no. 3 suspension cables 2m length and power supply ceiling rose. Anodized turned aluminium reflector. Satin glass louver. LED light source. Direct light emission. Suspension mounting system. Ceiling installation bracket code HRLUSH-ST. Built-in electronic driver ON/OFF. On request: dimmable DALI (code DL). Emergency autonomy 1h/3h.

Corps en aluminium extrudé ave traitement époxy. Fourni avec 3 cable de suspension de 2m et rosace de alimentation. Réflecteur en aluminium tourné et anodisé. Optique en verre sablé. Source lumineuse LED. Émission directe. Système de fixation à suspension. Support pour installation au plafond réf. HRLUSH-ST. Alimentation électronique intégrée ON/OFF. Sur demande: dimmable DALI (réf. DL). Autonomie d'urgence 1h/3h.

Cuerpo de aluminio extruido con polvo epoxi previamente fosfatado. 3 cables de suspensión de 2 m y roseta incluidos. Difusor de aluminio torneado y anodizado. Óptica de vidrio esmerilado. Fuente de iluminación LED. Emisión difundida. Sistema de fijación en suspensión. Soporte para instalación en techo cod. HRLUSH-ST. Alimentación electrónica integrada ON/OFF. Bajo pedido: regulable DALI (código DL). Grupo de emergencia de 1h o 3h.



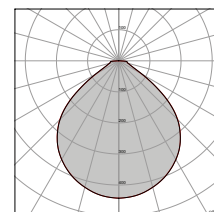
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Schermo Diffuser	Alimentazione Power Supply	Colore Colour
4400	40	≤ 110	250	<b>HRLS1</b>	<b>W:3000</b> <b>N:4000</b>	vetro satinato satin glass	-: ON/OFF  <b>DL:</b> DALI	<b>Standard:</b> <ul style="list-style-type: none"> <li>● <b>WI:</b> White Irazu</li> <li>● <b>BLL:</b> Black Lava</li> </ul> <b>Su richiesta / On request:</b> <ul style="list-style-type: none"> <li>● <b>SB:</b> Silver Bombalai</li> <li>● <b>BL:</b> Bronze Lario</li> <li>● <b>RR:</b> Rust Rame</li> <li>● <b>BF:</b> Beige Futura</li> <li>● <b>GK:</b> Gold Karkar</li> <li>● <b>BT:</b> Blue Telica</li> </ul>
5950	58,5	≤ 102	350	<b>HRLS2</b>				
7700	77,5	≤ 99	450	<b>HRLS3</b>				



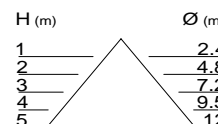
A richiesta | On request

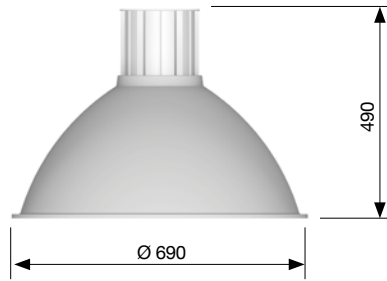
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%



Accessorio / Accessory  
Staffa per installazione a plafone codice HRLUSH-ST  
Ceiling installation bracket code HRLUSH-ST





## MACISTE

Apparecchio decorativo per installazione a sospensione.  
Decorative suspension lighting fitting.  
Appareil décoratif en suspension.  
Luminaria decorativa de suspensión.

Corpo in alluminio verniciato con polveri epossidiche previa fosfatazione. Completo di cavo di sospensione L. 2 m e rosone d'alimentazione. Riflettore in alluminio tornito anodizzato. Ottica in vetro satinato. Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a sospensione. Alimentazione elettronica integrata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Emergenza autonomia 1h/3h.

Extruded aluminium body painted with epoxy powders after phosphating. Complete with suspension cable 2m length and power supply ceiling rose. Anodized turned aluminium reflector. Satin glass louver. LED light source. Direct light emission. Suspension mounting system. Ceiling installation bracket code LUSH-ST. Built-in electronic driver ON/OFF. On request: dimmable DALI (code DL). Emergency autonomy 1h/3h.

Corps en aluminium extrudé ave traitement époxy. Fourni avec cable de suspension de 2m et rosace de alimentation. Réflecteur en aluminium tourné et anodisé. Optique en verre sablé. Source lumineuse LED. Émission directe. Système de fixation à suspension. Support pour installation au plafond réf. LUSH-ST. Alimentation électronique intégrée ON/OFF. Sur demande: dimmable DALI (réf. DL). Autonomie d'urgence 1h/3h.

Cuerpo de aluminio extruido con polvo epoxi previamente fosfatado. Cable de suspensión de 2 m y roseta incluidos. Difusor de aluminio torneado y anodizado. Óptica de vidrio esmerilado. Fuente de iluminación LED. Emisión difundida. Sistema de fijación en suspensión. Soporte para instalación en techo cód. LUSH-ST. Alimentación electrónica integrada ON/OFF. Bajo pedido: regulable DALI (código DL). Grupo de emergencia de 1h o 3h.



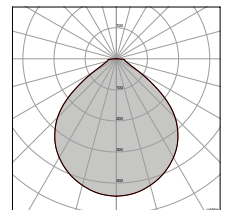
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Schermo Diffuser	Alimentazione Power Supply	Colore Colour
1465	11	≤ 131	250	<b>HRMAC1</b>	<b>W:3000</b> <b>N:4000</b>	vetro satinato satin glass	-: ON/OFF  <b>DL:</b> DALI	<b>Standard:</b> <ul style="list-style-type: none"> <li>● <b>W1:</b> White Irazu</li> <li>● <b>BLL:</b> Black Lava</li> </ul> <b>Su richiesta / On request:</b> <ul style="list-style-type: none"> <li>● <b>SB:</b> Silver Bombalai</li> <li>● <b>BL:</b> Bronze Lario</li> <li>● <b>RR:</b> Rust Rame</li> <li>● <b>BF:</b> Beige Futura</li> <li>● <b>GK:</b> Gold Karkar</li> <li>● <b>BT:</b> Blue Telica</li> </ul>
1975	16	≤ 123	350	<b>HRMAC2</b>				
2470	20	≤ 123	450	<b>HRMAC3</b>				
2560	22	≤ 116	500	<b>HRMAC4</b>				



A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

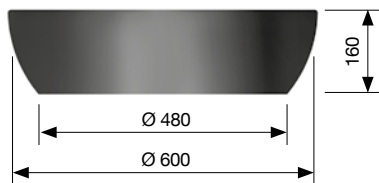


H (m)	Ø (m)
1	2.4
2	4.8
3	7.2
4	9.5
5	12









## BOLERO SHOP

Apparecchio decorativo per installazione a sospensione.  
Decorative suspension lighting fitting.  
Appareil décoratif en suspension.  
Luminaria decorativa de suspensión.

Corpo in alluminio verniciato con polveri epossidiche previa fosfatazione. Completo di n. 3 cavi di sospensione L. 2 m e rosone d'alimentazione. Riflettore in alluminio tornito anodizzato. Ottica in vetro satinato. Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a sospensione. Staffa per installazione a plafone cod. HRLUSH-ST. Alimentazione elettronica integrata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Emergenza autonomia 1h/3h.

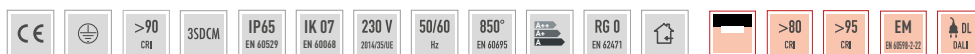
Extruded aluminium body painted with epoxy powders after phosphating. Complete with no. 3 suspension cables 2m length and power supply ceiling rose. Anodized turned aluminium reflector. Satin glass louver. LED light source. Direct light emission. Suspension mounting system. Ceiling installation bracket code HRLUSH-ST. Built-in electronic driver ON/OFF. On request: dimmable DALI (code DL). Emergency autonomy 1h/3h.

Corps en aluminium extrudé ave traitement époxy. Fourni avec 3 cable de suspension de 2m et rosace de alimentation. Réflecteur en aluminium tourné et anodisé. Optique en verre sablé. Source lumineuse LED. Émission directe. Système de fixation à suspension. Support pour installation au plafond réf. HRLUSH-ST. Alimentation électronique intégrée ON/OFF. Sur demande: dimmable DALI (réf. DL). Autonomie d'urgence 1h/3h.

Cuerpo de aluminio extruido con polvo epoxi previamente fosfatado. 3 cables de suspensión de 2 m y roseta incluidos. Difusor de aluminio torneado y anodizado. Óptica de vidrio esmerilado. Fuente de iluminación LED. Emisión difundida. Sistema de fijación en suspensión. Soporte para instalación en techo cód. HRLUSH-ST. Alimentación electrónica integrada ON/OFF. Bajo pedido: regulable DALI (código DL). Grupo de emergencia de 1h o 3h.



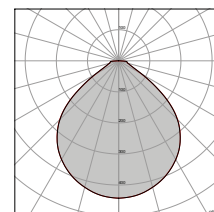
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Schermo Diffuser	Alimentazione Power Supply	Colore Colour
4400	40	≤ 110	250	<b>HRBS1</b>	<b>WW: 2700</b> <b>W:3000</b> <b>X:3500</b> <b>N:4000</b>	vetro satinato satin glass	-: ON/OFF  <b>DL: DALI</b>	<b>Standard:</b> ● <b>WL:</b> White Irazu ● <b>BL:</b> Black Lava <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
5950	58,5	≤ 102	350	<b>HRBS2</b>				
7700	77,5	≤ 99	450	<b>HRBS3</b>				



A richiesta | On request

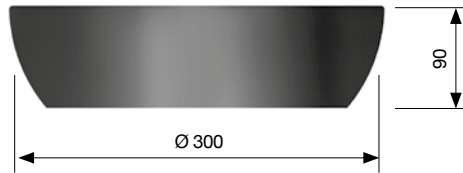
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%



Accessorio / Accessory  
Staffa per installazione a plafone codice HRLUSH-ST  
Ceiling installation bracket code HRLUSH-ST

H (m)	Ø (m)
1	2.4
2	4.8
3	7.2
4	9.5
5	12



# BOLERINO

Apparecchio decorativo per installazione a sospensione.  
 Decorative suspension lighting fitting.  
 Appareil décoratif en suspension.  
 Luminaria decorativa de suspensión.

Corpo in alluminio verniciato con polveri epossidiche previa fosfatazione. Completo di cavo di sospensione L. 2 m e rosone d'alimentazione. Schermo di chiusura in policarbonato opale. Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a sospensione. A richiesta installazione a plafone con staffe codice HRBLN-ST. Alimentazione elettronica integrata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Emergenza autonomia 1h/3h.

Extruded aluminium body painted with epoxy powders after phosphating. Complete with suspension cable 2m length and power supply ceiling rose. Opal polycarbonate closing diffuser. LED light source. Direct light emission. Suspension mounting system. Ceiling installation bracket code HRBLN-ST. Built-in electronic driver ON/OFF. On request: dimmable DALI (code DL). Emergency autonomy 1h/3h.

Corps en aluminium extrudé ave traitement époxy. Fourni avec cable de suspension de 2m et rosace de alimentation. Ecran de fermeture en polycarbonate opal. Source lumineuse LED. Émission directe. Système de fixation à suspension. Support pour installation au plafond réf. HRBLN-ST. Alimentation électronique intégrée ON/OFF. Sur demande: dimmable DALI (réf. DL). Autonomie d'urgence 1h/3h.

Cuerpo de aluminio extruido con polvo epoxi previamente fosfatado. Cable de suspensión de 2 m y roseta incluidos. Difusor de cierre de policarbonato opal. Fuente de iluminación LED. Emisión difundida. Sistema de fijación en suspensión. Soporte para instalación en techo cód. HRBLN-ST. Alimentación electrónica integrada ON/OFF. Bajo pedido: regulable DALI (código DL). Grupo de emergencia de 1h o 3h.



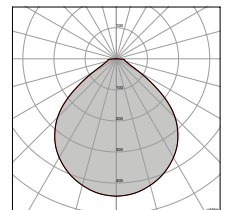
Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Schermo Diffuser	Alimentazione Power Supply	Colore Colour
1500	16	≤ 94	250	HRBLN1	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	opale opal	-: ON/OFF  DL: DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BL:</b> Black Lava <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
2140	23	≤ 94	350	HRBLN2				
2780	30	≤ 93	450	HRBLN3				
3630	39	≤ 93	500	HRBLN4				



A richiesta | On request

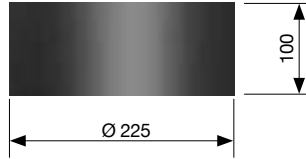
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%



H (m)	Ø (m)
1	2.4
2	4.8
3	7.2
4	9.5
5	12





# PLATÒ

## FASCIO/BEAM/FAISCEAU/HAZ LA

Plafoniera decorativa, attacco plafone o binario  
 Decorative LED fitting for ceiling or track mounting.  
 Appareil décoratif LED pour fixation en saillie ou sur rail.  
 Luminaria LED decorativa para montaje en techo o de carril.

Corpo e riflettore in un unico pezzo in alluminio verniciato con polveri epossidiche previa fosfatazione. Schermo di chiusura in policarbonato opale. Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a plafone. Per installazione a binario: accessorio attacco a binario (cod. TK). Alimentazione elettronica integrata ON/OFF. A richiesta: dimmerabile DALI (cod. DL). Emergenza autonomia 1h/3h.

*One piece body and reflector painted with epoxy powders after phosphating. Opal polycarbonate closing diffuser. LED light source. Direct light emission. Ceiling mounting system. Track mounting system accessory (cod. TK). Built-in electronic driver ON/OFF. On request: dimmable DALI (code DL). Emergency autonomy 1h/3h.*

*Corps et réflecteur, une seule pièce, en aluminium avec traitement époxy. Ecran de fermeture en polycarbonate opal. Source lumineuse LED. Emission directe. Système de fixation au plafond (accessoire pour installation sur rail : réf. TK). Alimentation électronique ON/OFF intégrée. Sur demande: dimmable DALI (réf. DL). Autonomie d'urgence 1h/3h.*

*Caracasa con reflector de aluminio recubierto con polvo epoxi previamente fosfatado. Difusor de cierre de policarbonato opal. Fuente de iluminación LED. Emisión directa. Montaje en techo (accessorio para instalación en carril: cód. TK). Alimentación electrónica ON/OFF integrada. A pedido: regulación DALI (cód. DL). Autonomía de emergencia 1h/3h.*



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Schermo Diffuser	Alimentazione Power Supply	Colore Colour
1465	11	≤ 131	250	HRPL1	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	opale opal	-: ON/OFF  <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava  <b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
1975	16	≤ 123	350	HRPL2				
2470	20	≤ 123	450	HRPL3				
2560	22	≤ 116	500	HRPL4				

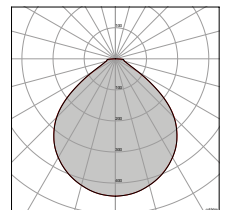


A richiesta | On request

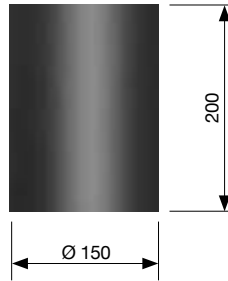
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

Ottica LA 100°



H (m)	Ø (m)
1	2.4
2	4.8
3	7.2
4	9.5
5	12



# MAGGIOLINA

## FASCIO/BEAM/FAISCEAU/HAZ LA

Plafoniera decorativa, attacco plafone o binario  
 Decorative LED fitting for ceiling or track mounting.  
 Appareil décoratif LED pour fixation en saillie ou sur rail.  
 Luminaria LED decorativa para montaje en techo o de carril.

Corpo e riflettore in un unico pezzo in alluminio verniciato con polveri epossidiche previa fosfatazione. Schermo di chiusura in policarbonato opale. Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a plafone. Per installazione a binario: accessorio attacco a binario (cod. TK). Alimentazione elettronica integrata ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

One piece body and reflector painted with epoxy powders after phosphating. Opal polycarbonate closing diffuser. LED light source. Direct light emission. Ceiling mounting system. Track mounting system accessory (cod. TK). Built-in electronic driver ON/OFF. On request: dimmable DALI (code)

Corps et réflecteur, une seule pièce, en aluminium avec traitement époxy. Ecran de fermeture en polycarbonate opal. Source lumineuse LED. Emission directe. Système de fixation au plafond (accessoire pour installation sur rail : réf. TK). Alimentation électronique ON/OFF intégrée. Sur demande: dimmable DALI (réf. DL).

Caracasa con reflector de aluminio recubierto con polvo epoxi previamente fosfatado. Difusor de cierre de policarbonato opal. Fuente de iluminación LED. Emisión directa. Montaje en techo (accessorio para instalación en carril: cód. TK). Alimentación electrónica ON/OFF integrada. A pedido: regulación DALI (cód. DL).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Schermo Diffuser	Alimentazione Power Supply	Colore Colour
1465	11	≤ 131	250	<b>HRMAG1</b>	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	opale opal	-: ON/OFF  <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta /On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
1975	16	≤ 123	350	<b>HRMAG2</b>				
2470	20	≤ 123	450	<b>HRMAG3</b>				
2560	22	≤ 116	500	<b>HRMAG4</b>				

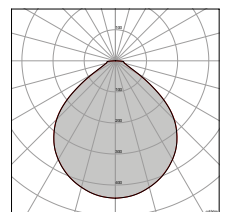


A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

Ottica LA 100°



H (m)	Ø (m)
1	2.4
2	4.8
3	7.2
4	9.5
5	12

SOO L

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SOO STAND

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MINI DECK

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LUMA A

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LUMA P

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LUMA I

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**SISTEMI 24 VOLT**

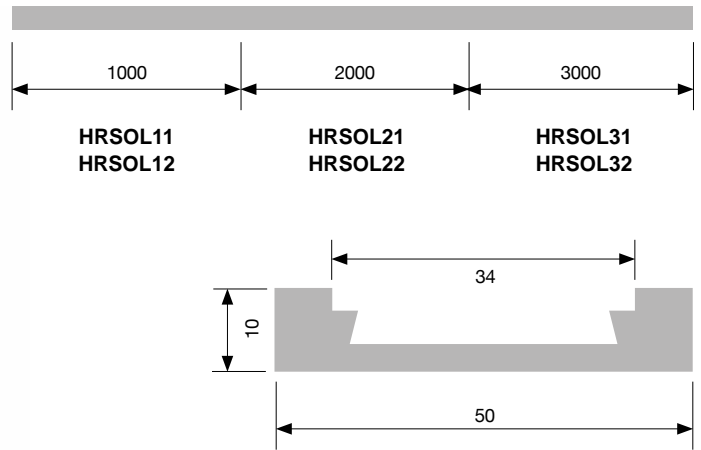
*SYSTEM 24 VOLT*  
*SYSTÈME LED 24 VOLT*  
*SISTEMA LED 24 VOLT*











# SOO L

## SCHERMO/DIFFUSER OP | MP

Sistema LED lineare 24 Volt.  
LED linear system 24 Volt.  
Système LED linéaire 24 Volt.  
Sistema LED lineal de 24V.

Corpo in estruso di alluminio verniciato con polveri epossidiche previa fosfatazione. Ottica microprismata trasparente (codice MP), opale (codice OP). Fornito completo di cavo di alimentazione lunghezza 2 m, uscita cavo dalla testata. Sorgente luminosa LED. Emissione diretta. Fissaggio a plafone o incasso a mezzo viti. Alimentazione 24 volt esterna ON/OFF. Alimentatore non incluso, da ordinare separatamente. A richiesta dimmerabile DALI.

Extruded aluminium body painted with epoxy powder after phosphating. Microprismatic polycarbonate louver (code MP) opal (code OP). Complete with power supply cable 2 mt. length, cable exit from endcap. LED light source. Direct light emission. Ceiling mounting system or recessed with screws. Separate electronic driver 24 Volt ON/OFF. Driver not included, to be ordered separately. On request: dimmable DALI (code DL).

Corps en aluminium extrudé peint avec des poudres époxy après phosphatation. Optique microprismée transparente (réf. MP), opale (réf. OP). Vendu avec câble d'alimentation long. 2 m, sortie de câble à l'extrémité sur le côté de l'appareil. Source de lumière LED. Émission directe. Fixation au plafond ou encastrée avec vis. Alimentation déportée 24 v ON/OFF. Driver non inclus, à commander séparément. Sur demande dimmable DALI (réf. DL).

Cuerpo de aluminio extruido barnizado con polvo epoxi previamente fosfatado. Óptica microprismata transparente (código MP), opal (código OP). Cable de alimentación de 2m incluido, salida del cable lateral. Fuente de iluminación LED. Emisión directa. Fijación de techo o empotrada mediante tornillos. Fuente de alimentación de 24V externa ON/OFF. Balasto no incluido (a pedir por separado). Bajo pedido: regulable DALI (código DL).



Lumen	Watt	Lumen Watt Out	Volt	Code Code	K	Schermo Diffuser	Alimentazione Power Supply	Colore Colour
2350	19	≤ 123	24	HRSOL11	WW: 2700 W:3000 X:3500 N:4000	OP: opale opal MP: microprismatico microprismatic	24 Volt da ordinare separatamente to be ordered separately	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta / On request:</b> ● <b>SB:</b> Silver Bombalai ● <b>BL:</b> Bronze Lario ● <b>RR:</b> Rust Rame ● <b>BF:</b> Beige Futura ● <b>GK:</b> Gold Karkar ● <b>BT:</b> Blue Telica
4700	38	≤ 123	24	HRSOL21				
7050	57	≤ 123	24	HRSOL31				
4700	38	≤ 123	24	HRSOL12				
9400	76	≤ 123	24	HRSOL22				
14100	114	≤ 123	24	HRSOL32				



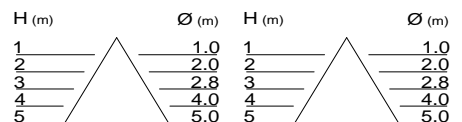
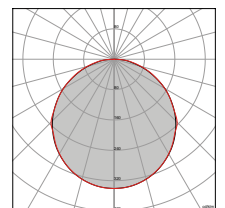
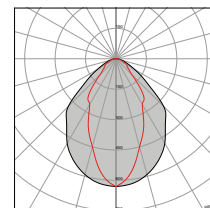
A richiesta | On request

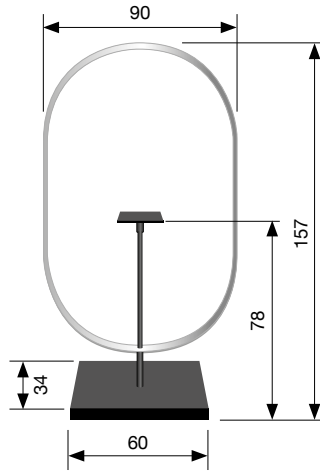
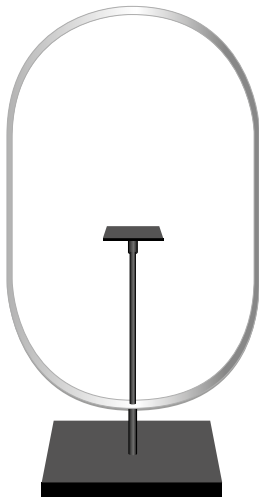
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

Ottica MP 50°

Ottica OP 112°





## SOO STAND

Espositore decorativo con illuminazione integrata.  
Decorative stand with built-in light.  
Présentoir décoratif avec éclairage intégré.  
Expositor decorativo con iluminación integrada.

Corpo in estruso di alluminio, base d'appoggio porta componenti e piano espositivo in lamiera d'acciaio pressopiegata, verniciati con polveri epossidiche previa fosfatazione. Schermo in policarbonato microprismato trasparente (cod. MP) o opale (cod. OP). Completo di cavo di alimentazione lunghezza 2m nero, senza spina e senza interruttore. Sorgente luminosa LED a 24V. Emissione interna diffusa. Alimentazione elettronica integrata ON/OFF. A richiesta: dimmerabile DALI (cod. DL).

Extruded aluminium body, component holder support base and display surface of bent steel sheet, painted with epoxy powders after phosphating. Transparent microprismatic polycarbonate diffuser (code MP) or opal (code OP). Complete with power supply cable 2 mt. length, without plug and switch. LED light source 24V. Diffuse internal emission. Built-in electronic driver ON/OFF. On request: dimmable DALI (code DL).

Corps en aluminium extrudé, base de support pour les composants et surface d'exposition en tôle d'acier pliée à la presse, peint avec des poudres époxy après phosphatation. Écran en polycarbonate microprismé transparent (réf. MP) ou opale (réf. OP). Livré avec cordon d'alimentation noir de 2 m de longueur, sans prise ni interrupteur. Source de lumière LED 24V. Émission interne diffuse. Alimentation électronique intégrée ON/OFF. Sur demande : DIMMABLE DALI (réf. DL).

Cuerpo de aluminio extruido, base de apoyo porta componentes y plano expositivos de chapa de acero plegada a presión, barnizados con polvo epoxi previamente fosfatado. Difusor de policarbonato microprismato transparente (código MP) u opal (código OP). Cable de alimentación de 2m negro incluido, sin enchufe y sin interruptor. Fuente de iluminación LED de 24V. Emisión interna difundida. Alimentación electrónica integrada ON/OFF. Bajo pedido: regulable DALI (código DL).



Lumen	Watt Watt Out	Lumen	Codice Code	K	Schermo Diffuser	Alimentazione Power Supply	Colore Colour
9400	76	≤ 123	HR SOS1	WW: 2700 W: 3000 X: 3500 N: 4000	MP: Microprismato Microprismatic  OP: Opale Opal	-: ON/OFF  DL: DALI	<b>Standard:</b> ● WI: White Irazu ● BLL: Black Lava <b>Su richiesta /On request:</b> ● SB: Silver Bombalai ● BL: Bronze Lario ● RR: Rust Rame ● BF: Beige Futura ● GK: Gold Karkar ● BT: Blue Telica



A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

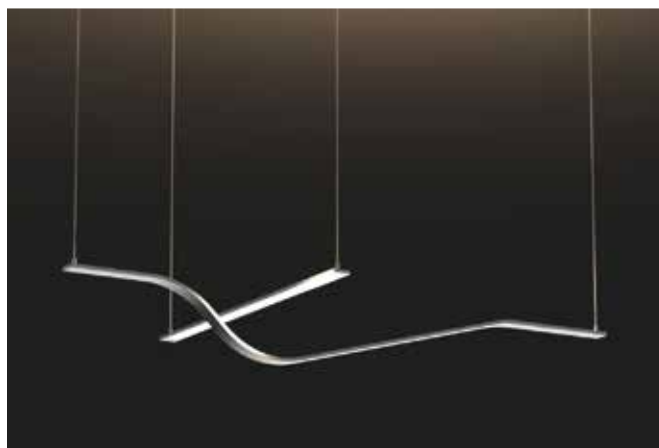


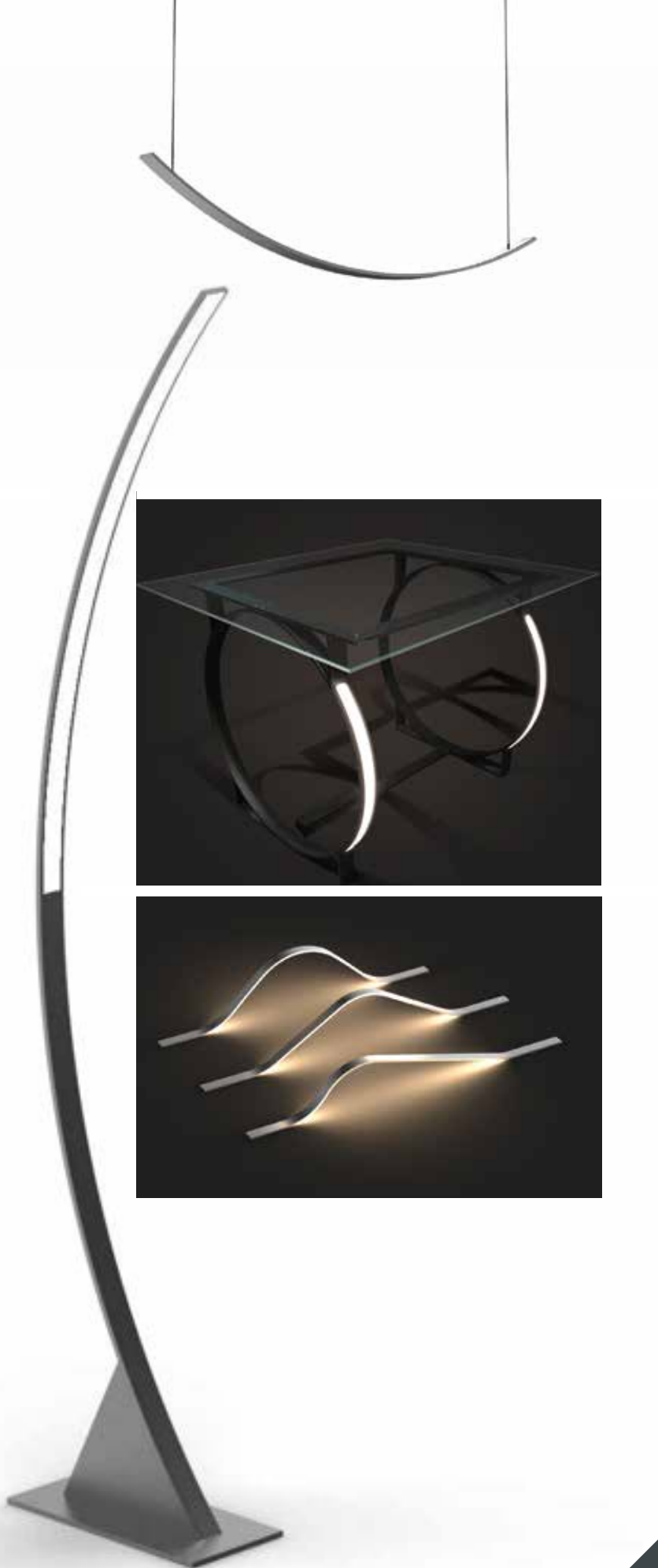
# Il mondo Soo.

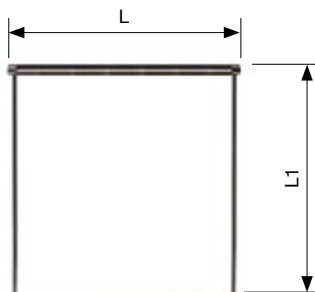
*The Soo world.*

*Le monde Soo.*

*El mundo Soo.*







## MINI DECK

Illuminazione per vetrina espositiva.

Lighting for display case.

Eclairage pour vitrine.

Iluminación para vitrina de exposición.

Corpo e supporto in alluminio estruso. Terminali di chiusura in alluminio tornito. Finiture e misure customizzabili a richiesta. Schermo di chiusura in policarbonato trasparente, a richiesta opale (cod. OP). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a incasso su superficie piana spessore 1 - 33 mm. Alimentazione remota 24 Volt da ordinare separatamente (pag. 169). A richiesta: dimmerabile DALI (cod. DL).

Extruded aluminum body and stand. Turned aluminum endcaps. On request customizable dimensions and finishes. Transparent polycarbonate closing diffuser, on request opal (code OP). LED light source. Direct light emission. Recessed fixing system on flat surface thickness 1 - 33 mm. Remote power supply 24 Volt to be ordered separately (see page 169). On request: dimmable DALI (code DL).

Corps et support en aluminium extrudé. Embouts terminaux en aluminium usiné. Finitions et dimensions personnalisables sur demande. Ecran de fermeture en polycarbonate transparent, opale sur demande (réf. OP). Source de lumière LED. Emission directe. Système de fixation encastré sur surface plane H. 1 - 33 mm. Alimentation déportée 24 Volt à commander séparément voir (pag. 169). Sur demande : Dimmable DALI (réf. DL).

Cuerpo y soporte de aluminio extruido. Terminales de aluminio torneado. Acabados y medidas personalizables bajo pedido. Difusor de policarbonato transparente, bajo pedido Opal (cód. OP). Fuente de iluminación LED. Emisión directa. Empotrable en superficie plana espesor 1 - 33 mm. Alimentación remota 24V (a pedir por separado p. 169). Bajo pedido: regulable DALI (cód. DL).



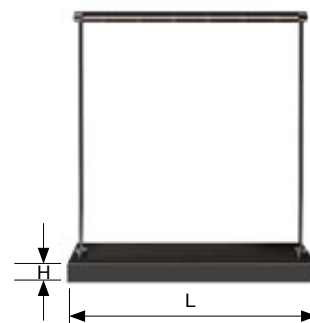
Lumen/m	Watt/m	Lumen Watt Out	Codice Code	L	L1	K	Schermo Diffuser	Alimentazione Power Supply	Colore Colour
2350	19	≤ 123	HRMD		A richiesta On request	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	-: Trasparente Transparent A richiesta On request <b>OP:</b> Opale Opal	<b>24 Volt</b> da ordinare separatamente to be ordered separately	<b>Standard:</b> <ul style="list-style-type: none"> <li>● <b>WI:</b> White Irazu</li> <li>● <b>BLL:</b> Black Lava</li> </ul> <b>Su richiesta / On request:</b> <ul style="list-style-type: none"> <li>● <b>SB:</b> Silver Bombalai</li> <li>● <b>BL:</b> Bronze Lario</li> <li>● <b>RR:</b> Rust Rame</li> <li>● <b>BF:</b> Beige Futura</li> <li>● <b>GK:</b> Gold Karkar</li> <li>● <b>BT:</b> Blue Telica</li> </ul>



A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

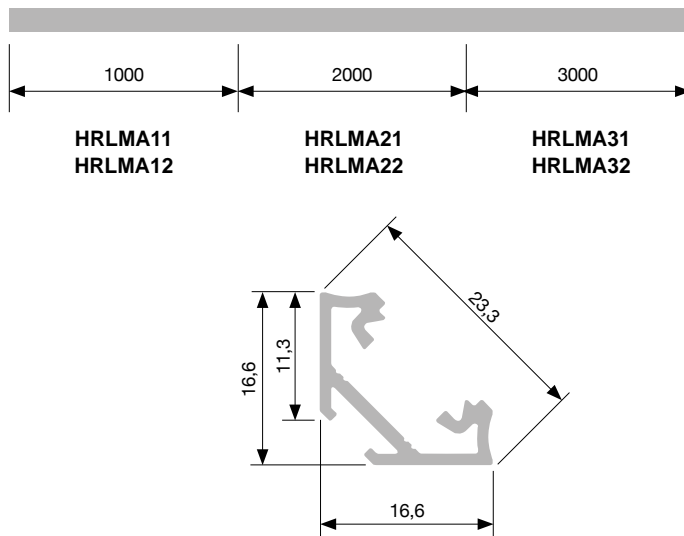


Accessorio base cablata  
 Accessory wired base









# LUMA A

## SCHERMO/DIFFUSER OP

Sistema LED lineare a plafone 24 Volt.  
 Ceiling LED linear system 24 Volt.  
 Système LED linéaire encastré 24 Volt.  
 Sistema LED angular de techo de 24V.

Corpo in estruso di alluminio anodizzato. Ottica opale (cod. OP). Fornito completo di cavo di alimentazione lunghezza 2 m, uscita cavo dalla testata. Accessori per installazione inclusi. Sorgente luminosa LED. Emissione diretta. Fissaggio a plafone, installazione angolare. Alimentazione 24 volt esterna ON/OFF. Alimentatore non incluso, da ordinare separatamente. A richiesta dimmerabile DALI (cod. DL).

Extruded anodized aluminum body. Opal polycarbonate optic (code OP). Complete with power supply cable 2 mt. length, cable exit from endcap. Installation accessories included. LED light source. Direct emission. Ceiling mounting system, corner installation. Separate electronic power supply 24 Volt ON/OFF. Driver not included, to be ordered separately. On request: dimmable DALI (code DL).

Corps en aluminium anodisé extrudé. Optique opale (réf. OP). Vendu avec câble d'alimentation long. 2 m, sortie de câble à l'extrémité sur le côté de l'appareil. Accessoires d'installation inclus. Source de lumière LED. Émission directe. Fixation en surface, installation d'angle. Alimentation déportée 24v ON/OFF. Driver non inclus, à commander séparément. Sur demande dimmable DALI (réf. DL).

Cuerpo de aluminio estruido anodizado. Óptica opal (código OP). cable de alimentación de 2m incluido, salida del cable lateral. Accesorios de instalación incluidos. Fuente de iluminación LED. Emisión directa. Fijación a techo. Instalación angular. Fuente de alimentación de 24V externa ON/OFF. Balasto no incluido (a pedir por separado). Bajo pedido: regulable DALI (código DL).

5Y WARRANTY  
5% FAILURE RATE
60.000 h  
LED LIFETIME L90B10
100.000 h  
LED LIFETIME L70B50
RIPPLE  
FREE

Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2350	20	≤ 118	24	<b>HRLMA11</b>	<b>WW: 2700</b> <b>W: 3000</b> <b>X: 3500</b> <b>N: 4000</b>	<b>OP:</b> opale opal	<b>24 Volt</b> da ordinare separatamente to be ordered separately	● Anodizzato Anodized
4700	40	≤ 118	24	<b>HRLMA21</b>				
7050	60	≤ 118	24	<b>HRLMA31</b>				
1600	14	≤ 115	24	<b>HRLMA12</b>				
3200	28	≤ 115	24	<b>HRLMA22</b>				
4800	42	≤ 115	24	<b>HRLMA32</b>				

CE
III
>90  
CRI
3SDCM
IP44  
EN 60529
IK 07  
EN 60068
24 V  
EN 60947
95°  
EN 60895
RG 0  
EN 62471

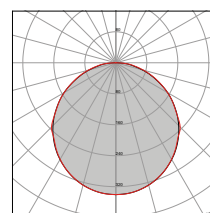
DL  
DALI
>80  
CRI
>95  
CRI

A richiesta | On request

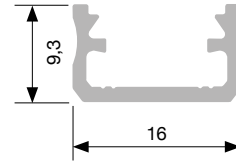
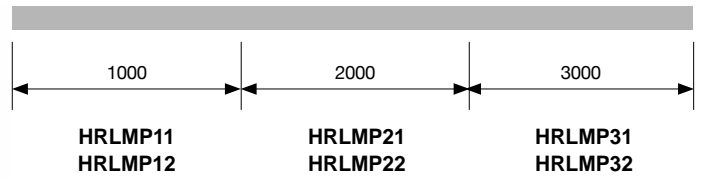
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

Ottica OP 112°



H (m)	Ø (m)
1	1.0
2	2.0
3	2.8
4	4.0
5	5.0



# LUMA P

## SCHERMO/DIFFUSER OP

Sistema LED lineare a plafone o incasso trimless 24 Volt.  
 Ceiling or trimless recessed LED linear system 24 Volt.  
 Système LED linéaire encastré sans cadre ou plafonnier 24v.  
 Sistema LED lineal de techo o empotrado trimless de 24V.

Corpo in estruso di alluminio anodizzato. Ottica opale (cod. OP). Fornito completo di cavo di alimentazione lunghezza 2 m, uscita cavo dalla testata. Accessori per installazione inclusi. Sorgente luminosa LED. Emissione diretta. Fissaggio a plafone. Alimentazione 24 volt esterna ON/OFF. Alimentatore non incluso, da ordinare separatamente. A richiesta dimmerabile DALI (cod. DL).

*Extruded anodized aluminum body. Opal polycarbonate optic (code OP). Complete with power supply cable 2 mt. length, cable exit from endcap. Installation accessories included. LED light source. Direct emission. Ceiling mounting system. Separate electronic power supply 24 Volt ON/OFF. Driver not included, to be ordered separately. On request: dimmable DALI (code DL).*

*Corps en aluminium anodisé extrudé. Optique opale (réf. OP). Vendu avec câble d'alimentation long. 2 m, sortie de câble à l'extrémité sur le côté de l'appareil. Accessoires d'installation inclus. Source de lumière LED. Émission directe. Fixation en surface. Alimentation déportée 24v ON/OFF. Driver non inclus, à commander séparément. Sur demande dimmable DALI (réf. DL).*

*Cuerpo de aluminio estruido anodizado. Óptica opal (código OP), cable de alimentación de 2m incluido, salida del cable lateral. Accesorios de instalación incluidos. Fuente de iluminación LED. Emisión directa. Fijación a techo. Fuente de alimentación de 24V externa ON/OFF. Balasto no incluido (a pedir por separado). Bajo pedido: regulable DALI (código DL).*

5Y WARRANTY  
5% FAILURE RATE
60.000 h  
LED LIFETIME L90B10
100.000 h  
LED LIFETIME L70B50
RIPPLE  
FREE

Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2350	20	≤ 118	24	HRLMP11	WW: 2700 W: 3000 X: 3500 N: 4000	OP: opale opal	24 Volt da ordinare separatamente to be ordered separately	● Anodizzato Anodized
4700	40	≤ 118	24	HRLMP21				
7050	60	≤ 118	24	HRLMP31				
1600	14	≤ 115	24	HRLMP12				
3200	28	≤ 115	24	HRLMP22				
4800	42	≤ 115	24	HRLMP32				

CE
III
>90  
CRI
3SDCM
IP44  
EN 60529
IK 07  
EN 60068
24 V  
2014/25/UE
950°  
EN 60895
RG 0  
EN 62471

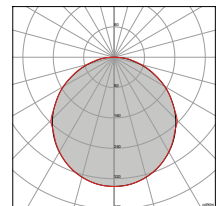
DL  
DALI
>80  
CRI
>95  
CRI

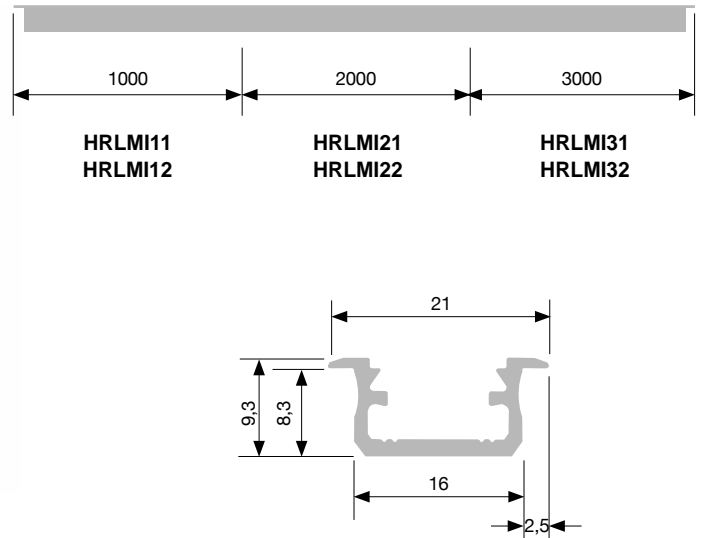
A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

Ottica OP 112°





# LUMA I

## SCHERMO/DIFFUSER OP

Sistema LED lineare a incasso 24 Volt.  
 Recessed LED linear system 24 Volt.  
 Système LED encastré linéaire 24v.  
 Sistema LED lineal empotrado de 24V.

Corpo in estruso di alluminio anodizzato. Ottica opale (cod. OP). Fornito completo di cavo di alimentazione lunghezza 2 m, uscita cavo dalla testata. Accessori per installazione inclusi. Sorgente luminosa LED. Emissione diretta. Fissaggio a plafone. Alimentazione 24 volt esterna ON/OFF. Alimentatore non incluso, da ordinare separatamente. A richiesta dimmerabile DALI (cod. DL).

Extruded anodized aluminum body. Opal polycarbonate optic (code OP). Complete with power supply cable 2 m. length, cable exit from endcap. Installation accessories included. LED light source. Direct emission. Ceiling mounting system. Separate electronic power supply 24 Volt ON/OFF. Driver not included, to be ordered separately. On request: dimmable DALI (code DL).

Corps en aluminium anodisé extrudé. Optique opale (réf. OP). Vendu avec câble d'alimentation long. 2 m, sortie de câble à l'extrémité sur le côté de l'appareil. Accessoires d'installation inclus. Source de lumière LED. Émission directe. Fixation en surface. Alimentation déportée 24v ON/OFF. Driver non inclus, à commander séparément. Sur demande dimmable DALI (réf. DL).

Cuerpo de aluminio estruido anodizado. Óptica opal (código OP). cable de alimentación de 2m incluido, salida del cable lateral. Accesorios de instalación incluidos. Fuente de iluminación LED. Emisión directa. Fijación a techo. Fuente de alimentación de 24V externa ON/OFF. Balasto no incluido (a pedir por separado). Bajo pedido: regulable DALI (código DL).

5Y WARRANTY  
5% FAILURE RATE
60.000 h  
LED LIFETIME L90B10
100.000 h  
LED LIFETIME L70B50
RIPPLE  
FREE

Lumen	Watt	Lumen Watt Out	mA	Codice Code	K	Fascio Beam	Alimentazione Power Supply	Colore Colour
2350	20	≤ 118	24	<b>HRLMI11</b>	<b>WW: 2700</b> <b>W:3000</b> <b>X:3500</b> <b>N:4000</b>	<b>OP:</b> opale opal	<b>24 Volt</b> da ordinare separatamente to be ordered separately	● Anodizzato Anodized
4700	40	≤ 118	24	<b>HRLMI21</b>				
7050	60	≤ 118	24	<b>HRLMI31</b>				
1600	14	≤ 115	24	<b>HRLMI12</b>				
3200	28	≤ 115	24	<b>HRLMI22</b>				
4800	42	≤ 115	24	<b>HRLMI32</b>				

CE
III
>90  
CRI
3SDCM
IP44  
EN 60529
IK 07  
EN 60068
24 V  
2014/2511E
850°  
EN 60895
RG 0  
EN 62471

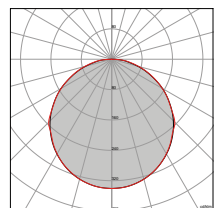
DL  
DALI
>80  
CRI
>95  
CRI

A richiesta | On request

Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

Ottica OP 112°



BINARIO DALI

*TRACK DALI*

*RAIL DALI*

*CARRIL DALI*

BINARIO INCASSO DALI

*RECESSED TRACK DALI*

*RAIL ENCASTRÉ DALI*

*EMPOTRABLES CARRIL DALI*

ALIMENTATORI

*DRIVERS*

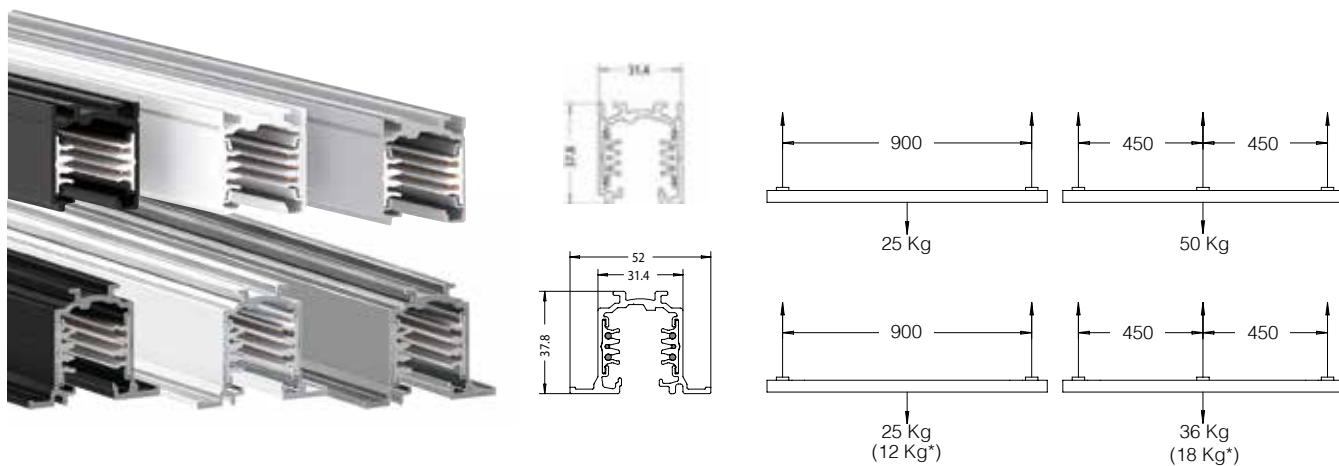
*ALIMENTATION*

*ALIMENTACIÓN*

**ACCESSORI**

*ACCESSORIES*  
*ACCESSOIRES*  
*ACCESORIOS*





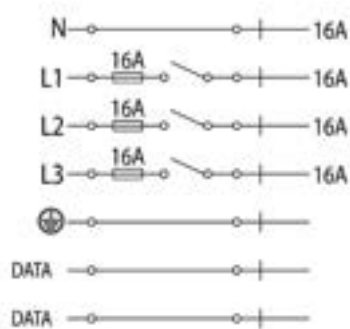
## BINARIO DALI STANDARD • STANDARD TRACK DALI BINARIO DALI INCASSO • RECESSED TRACK DALI

Binario elettrificato realizzato in profilo di alluminio a sezione quadrata. Per l'installazione del binario incasso vedi accessori alla pagina 168.  
*Electrified track manufactured in square profile extruded aluminium. For the installation of the recessed track see accessories on page 168.*  
*Rail électrifié réalisé en profil d'aluminium à section carrée. Pour l'installation du rail encastré voir accessoires page 168.*  
*Carril electrificado realizado de perfil de aluminio de sección cuadrada. Para la instalación del carril empotrado, ver accesorios página 168.*

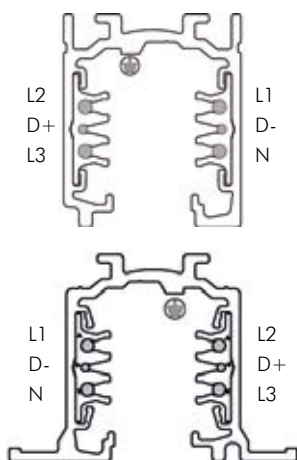
Lunghezza Lenght	Codice Code	Colore Colour
BINARIO STANDARD DALI • STANDARD TRACK DALI		
1000	HR7511/10	<ul style="list-style-type: none"> <li>● 31: Bianco   white RAL9016</li> <li>● 30: Nero   black RAL 9005</li> <li>● 42: Anodizzato   anodized</li> </ul>
2000	HR7511/20	
3000	HR7511/30	
BINARIO DALI INCASSO • RECESSED TRACK DALI		
1000	HR-9000-1	
2000	HR-9000-2	
3000	HR-9000-3	



### POSIZIONAMENTO DELL'ALIMENTAZIONE DEL CONDUTTORI DI TERRA. POSITION OF THE SUPPLY OF EARTH CONDUCTORS.















SCHEMA ELETTRICO TRIFASE A TENSIONE DI RETE 230/250V.  
THREE-PHASE ELECTRIC DIAGRAM FOR MAINS VOLTAGE 230/250V.



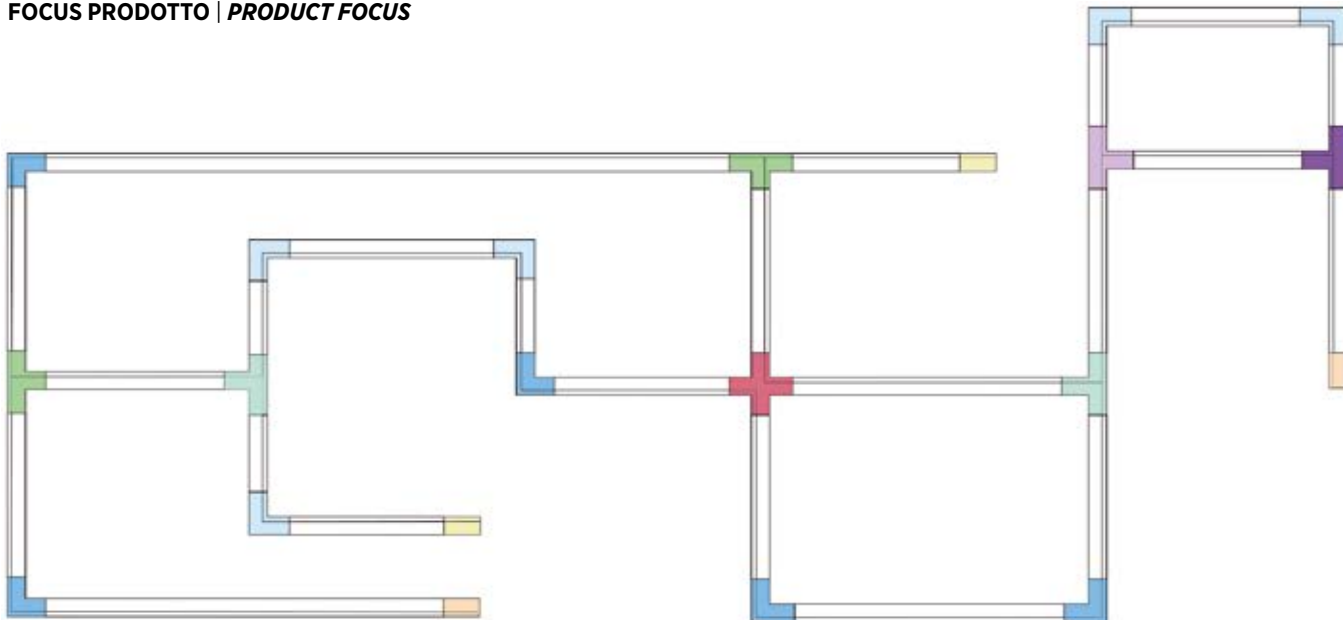
## ACCESSORI PER BINARIO STANDARD DALI.

ACCESSORIES FOR STANDARD TRACK DALI.

	accessori accessories	codice code
	Adattatore meccanico 6A - carico meccanico 5 Kg. <i>Mechanical electrical adapter 6A - mechanical load 5 Kg.</i>	<b>7601-00</b>
	Adattatore meccanico. <i>Mechanical electrical adapter.</i>	<b>7625-00</b>
	Alimentazione destra. <i>Right power supply.</i>	<b>7652-10</b>
	Alimentazione sinistra. <i>Left power supply.</i>	<b>7652-11</b>
	Alimentazione centrale e giunto lineare. <i>Central connector and straight joint.</i>	<b>7653-10</b>
	Giunto L interno. <i>Interior L joint.</i>	<b>7655-10</b>
	Giunto L esterno. <i>Exterior L joint.</i>	<b>7655-11</b>
	Giunto T sinistro esterno. <i>Left outside T joint.</i>	<b>7656-10</b>
	Giunto T destro esterno. <i>Right outside T joint.</i>	<b>7656-12</b>
	Giunto T destro interno. <i>Right inside T joint.</i>	<b>7656-13</b>
	Giunto T sinistro interno. <i>Left inside T joint.</i>	<b>7656-11</b>
	Giunto X. <i>X joint.</i>	<b>7657-10</b>


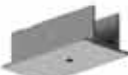






















	accessori accessories	codice code
	Giunto flessibile. <i>Flexible joint.</i>	<b>7658-10</b>
	Giunto lineare con contatti. <i>Electrical straight joint.</i>	<b>7604-10</b>
	Giunto lineare senza contatti. <i>Mechanical joint.</i>	<b>7654-10</b>
	Chiusura. <i>End cap.</i>	<b>7659-00</b>
	Copertura binario 1000 mm. <i>Track cover 1000 mm.</i>	<b>7624-00</b>
	Kit attacco soffitto. <i>Ceiling kit.</i>	<b>7607-00</b>
	Sospensione kit cavo acciaio 2000 mm (piattina 60). <i>Suspension kit with steel wire 2000 mm (plate 60).</i>	<b>7606-00</b>
	Sospensione kit cavo acciaio 2000 mm (piattina 120). <i>Suspension kit with steel wire 2000 mm (plate 120).</i>	<b>7606-05</b>
	Piattina 120 mm. <i>Plate 120 mm.</i>	<b>7606-04</b>
	Piattina 60 mm. <i>Plate 60 mm.</i>	<b>7606-02</b>
	Adattatore con trasformatore elettr. 50W con jack femmina. <i>Adapter with transformer 50W with female jack.</i>	<b>7601-11</b>

## FOCUS PRODOTTO | PRODUCT FOCUS

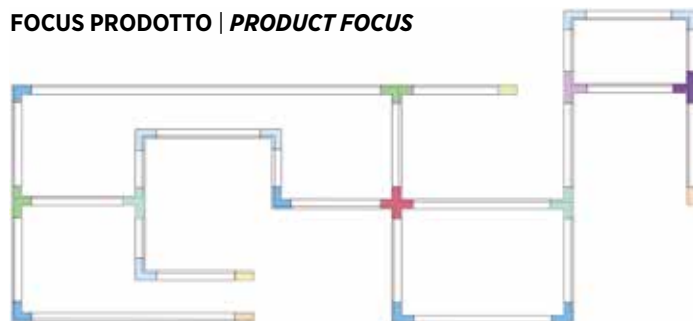




**ACCESSORI PER BINARIO INCASSO DALI.**  
*ACCESSORIES FOR RECESSED TRACK DALI.*

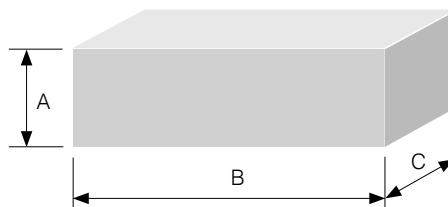
accessori accessories		codice code		accessori accessories		codice code
	Alimentazione destra. <i>Right power supply.</i>	7652-10	+		Copertura da controsoffitto per testata. <i>Recessed cover for end-feed.</i>	S-9001-R/6
	Alimentazione sinistra. <i>Left power supply.</i>	7652-11				
	Alimentazione centrale e giunto lineare. <i>Central connector and straight joint.</i>	7653-10	+		Copertura da controsoffitto per giunto diretto. <i>Recessed cover for middle feed.</i>	S-9010-R/6
	Giunto L interno. <i>Interior L joint.</i>	7655-10				
	Giunto L esterno. <i>Exterior L joint.</i>	7655-11	+		Copertura da controsoffitto per giunto a L. <i>Recessed cover for L-feed.</i>	S-9011-R/6
	Giunto T sinistro esterno. <i>Left outside T joint.</i>	7656-10				
	Giunto T destro esterno. <i>Right outside T joint.</i>	7656-12	+		Copertura da controsoffitto per giunto a T. <i>Recessed cover for T-feed.</i>	S-9013-R/6
	Giunto T destro interno. <i>Right inside T joint.</i>	7656-13				
	Giunto T sinistro interno. <i>Left inside T joint.</i>	7656-11				
	Giunto X. <i>X joint.</i>	7657-10	+		Copertura da controsoffitto per giunto a X. <i>Recessed cover for X-feed.</i>	S-9017-R/6
	Kit di sospensione per installazione con cartongesso da posare. <i>Suspension kit for installation with false ceiling to be laid</i>	7606-00 7606-05				
	Kit staffe (2 pezzi) per installazione con cartongesso già posato. <i>Kit 2 brackets for installation with false ceiling area by installed</i>	KT-9000-TR			Gancio. <i>Hook.</i>	S-9000/H-B
					Guarnizione per testata di alimentazione. <i>Gasket for end-feed.</i>	S-9000/115
	Tappo di protezione supplementare per asole binario. <i>Additional closure cap for track slot.</i>				Giunto lineare con contatti. <i>Electrical straight joint.</i>	7604-10
					Giunto lineare senza contatti. <i>Mechanical joint.</i>	7654-10
	Adattatore meccanico 6A - carico meccanico 5 Kg. <i>Mechanical electrical adapter 6A - mechanical load 5 Kg.</i>	7601-00			Guaina di protezione supplementare. <i>Additional cover strip for track.</i>	S-9000-GP
	Adattatore meccanico. <i>Mechanical electrical adapter.</i>	7625-00			Chiusura. <i>End cap.</i>	9004-R

**FOCUS PRODOTTO | PRODUCT FOCUS**



## ALIMENTATORI • DRIVER

### 230/24 VOLT



Volt	Watt	Codice Code	Dimensioni Dimension
<b>ALIMENTATORI CLASSE 1 • DRIVERS CLASS 1</b>			
230/24	25	<b>HRAL25</b>	A 92 x B 82 x C 30
230/24	35	<b>HRAL35</b>	A 92 x B 82 x C 30
230/24	50	<b>HRAL50</b>	A 92 x B 82 x C 30
230/24	75	<b>HRAL75</b>	A 99 x B 97 x C 30
230/24	100	<b>HRAL100</b>	A 129 x B 99 x C 30
230/24	150	<b>HRAL150</b>	A 159 x B 97 x C 30
<b>ALIMENTATORI CLASSE 2 • DRIVERS CLASS 2</b>			
230/24	30	<b>HR2AL30</b>	A 145 x B 40 x C 26,5
230/24	60	<b>HR2AL60</b>	A 200 x B 40 x C 31
230/24	120	<b>HR2AL120</b>	A 260 x B 40 x C 31
230/24	180	<b>HR2AL180</b>	A 300 x B 40 x C 31
<b>ALIMENTATORI CLASSE 2 DALI • DRIVERS CLASS 2 DALI</b>			
230/24	50	<b>HRDL50</b>	A 346 x B 32 x C 22
230/24	80	<b>HRDL80</b>	A 346 x B 32 x C 22
230/24	160	<b>HRDL160</b>	A 0300 x B 50 x C 35
<b>ALIMENTATORI CLASSE 2 IP • DRIVERS CLASS 2 IP</b>			
230/24	20	<b>HR2ALIP20</b>	A 178 x B 43 x C 25
230/24	40	<b>HR2ALIP40</b>	A 208 x B 43 x C 26
230/24	60	<b>HR2ALIP60</b>	A 208 x B 43 x C 26
230/24	100	<b>HR2ALIP100</b>	A 240 x B 50 x C 34
230/24	130	<b>HR2ALIP130</b>	A 220 x B 63 x C 37
230/24	250	<b>HR2ALIP250</b>	A 265 x B 68 x C 40

**GRUPPO RAINA**  
L'unione fa la luce.

**IDEALLUX®**

*Lookup*

**COLOMBO**

**ITALIANARETAIL**

**SOSPENSIONE / PLAFONE / INCASSO TRIMLESS / FILE CONTINUE**  
*SUSPENSION / CEILING / RECESSED TRIMLESS / CONTINUOUS LINE*



Algebra OP



Algebra Small

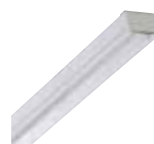


Algebra Micro OP

**SISTEMI CONTINUI**  
*CONTINUOUS LINE SYSTEM*

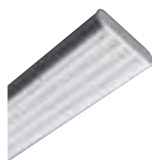


Bingo LED



Binlens System

**PLAFONIERE STAGNE AD ALTA PROTEZIONE MECCANICA**  
*HIGH PROTECTION MECHANICAL WATERPROOF FIXTURE*



Innova XL 1500  
Satinato/Satin



Innova XL  
INTENSIVE



Innova XL  
DARK



Innova PARK



ZITA  
Opale



ZITA 5P  
Opale

**REGLETTE LED "PROLUNGABILI"**  
*LED LIGHT BATTEN "EXTENDABLE"*



Dedica HF



Dedica ASL HF



Profili HF

**IDEALLUX®**

**SOSPENSIONE / PLAFONE / PARETE**  
*SUSPENSION / CEILING / WALL*



Flooting Led



Flat Line Led Dark  
Dir./ind.



Relax Led Spa



Relax Led



BB Teck



BB Led



Flat Smash Led



Gardena Led

**INCASSO**  
*RECESSED*



Alg Up OP



Alg Up Small



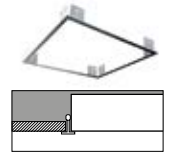
Alg Up Micro



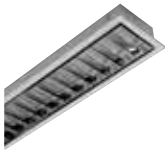
Controplus UGR



Controplus R



Telai/Frames



Controlled EB  
Dark



Controlled EB  
OPAL



Controlled SPA R



Compatta UGR

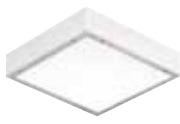


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Sottile Q

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L'unione fa la luce.

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Bolerino



Calea



Zoe M - Zoe



Talè M - Talè



Gina



Mali S-AM



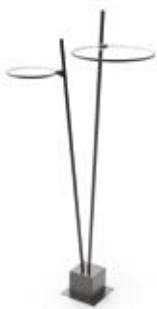
Leila



Bombeï M



Pla



Zero



Birba



Furba



Markus



Markus D



Markus P



Dominore



Calipso



Crocket



Madai



Iron

# CHIAVE DI LETTURA CATALOGO

## METHOD OF READING THE CATALOGUE

**1** Immagine prodotto. *Product image.*

**2** Dimensioni. *Dimensions.*

**3** Disegno fasci disponibili. *Draw of the available beams.*

**4** I simboli riportati indicano configurazioni disponibili su richiesta. *The symbols identify the available versions on request*

**5** Simbologia caratteristiche tecnico-costruttive vedi dettagli a pagine 175-176. *For the symbols of the technical details see on pages 175-176.*

**6** Fotometrie. *Photometries.*

**7** Informazioni generali. *General information.*

**8** LUMEN OUT: indica il flusso emesso dall'apparecchio in condizioni di lavoro misurate secondo le norme UNI EN 13032-1:2012 e UNI EN 13032-4:2015 operante in ambiente con temperatura pari a 25°C.

**9** WATT: è la potenza totale assorbita dalla rete elettrica dall'apparecchio di illuminazione. Il dato indicato è comprensivo dei consumi dell'alimentatore elettronico con apparecchio stabilizzato a regime termico operante in ambiente con temperatura pari a 25°C.

**10** LUMEN / WATT OUT: indica l'efficienza reale dell'apparecchio di illuminazione indicando il flusso in uscita per ogni Watt assorbito dalla rete elettrica. Tolleranza sui valori indicati +/- 10%.

**11** mA: Indica il valore di corrente utilizzata per alimentare il modulo LED.

**12** CODICE: è il codice del prodotto da utilizzare per comporre il codice d'ordine (vedi sezione "codice d'ordine").

**13** FASCIO: Indica l'apertura angolare del fascio luminoso.

**14** K: indica la temperatura di colore dei LED espressa in gradi Kelvin; utilizzare le lettere indicate per completare il codice prodotto; "N" per apparecchio equipaggiato con LED 4.000K (standard) oppure con "W" per apparecchio equipaggiato con LED 3.000K, "C" per apparecchio equipaggiato con LED 6.000K.

**15** ALIMENTAZIONE: identifica il tipo di cablaggio dell'apparecchio. La versione standard prevede alimentazione elettronica ON/OFF; cablaggi speciali dimmerabili sono identificati con: DL alimentatore DALI o PD alimentatore push-dim. La sigla relativa al tipo di alimentazione deve essere utilizzata per comporre il codice apparecchio, i codici che non contengono indicazioni relative al tipo di alimentazione saranno gestiti come standard, quindi ON/OFF.

**16** COLORE: è un codice alfabetico che identifica il colore del corpo dell'apparecchio di illuminazione, il colore è riportato in tabella; esempio: SB = Silver Bombalai, BL = Bronze Lario, ecc.

**12 CODICE BASE:** è il codice del prodotto da utilizzare per comporre il codice d'ordine. (Vedi sezione "codice d'ordine")

**CODICE BASE:** it is the article code to be used to compose the order code. (See section "order code")

**CODICE D'ORDINE | ORDER CODE**

**HRMCGR1SPNSB**

**HRMCGR1MDWWDLBL**

**MICRO GIRO 7 W 4.000K FASCIO/BEAM SP ON/OFF SB**

**MICRO GIRO 7 W 2.700K FASCIO/BEAM MEDIO DALI BL**

Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
890	7	≤ 127	200	HRMCGR1	SP: fascio spot spot beam	WW: 2700 W: 3000 X: 3500 N: 4000	-: ON/OFF elettronica	● SB: Silver Bombalai ● BL: Bronze Lario ● BR: Brat Barba ● BF: Beige Futuna ● W: White Irazu ● GK: Gold Kankar ● BT: Blue Telica ● BL: Black Lava
1100	9	≤ 122	250	HRMCGR2	ST: fascio stretto narrow beam			
1570	13	≤ 121	350	HRMCGR3	MD: fascio medio medium beam			
2150	18	≤ 120	500	HRMCGR4	LA: fascio largo wide beam			
2950	26	≤ 114	700	HRMCGR5				

- 8** LUMEN OUT: indica il flusso emesso dall'apparecchio in condizioni di lavoro misurate secondo le norme UNI EN 13032-1:2012 e UNI EN 13032-4:2015 operante in ambiente con temperatura pari a 25°C.
- 9** WATT: è la potenza totale assorbita dalla rete elettrica dall'apparecchio di illuminazione. Il dato indicato è comprensivo dei consumi dell'alimentatore elettronico con apparecchio stabilizzato a regime termico operante in ambiente con temperatura pari a 25°C.
- 10** LUMEN / WATT OUT: indica l'efficienza reale dell'apparecchio di illuminazione indicando il flusso in uscita per ogni Watt assorbito dalla rete elettrica. Tolleranza sui valori indicati +/- 10%.
- 11** mA: Indica il valore di corrente utilizzata per alimentare il modulo LED.
- 12** CODICE: è il codice del prodotto da utilizzare per comporre il codice d'ordine (vedi sezione "codice d'ordine").
- 13** FASCIO: Indica l'apertura angolare del fascio luminoso.
- 14** K: indica la temperatura di colore dei LED espressa in gradi Kelvin; utilizzare le lettere indicate per completare il codice prodotto; "N" per apparecchio equipaggiato con LED 4.000K (standard) oppure con "W" per apparecchio equipaggiato con LED 3.000K, "C" per apparecchio equipaggiato con LED 6.000K.
- 15** ALIMENTAZIONE: identifica il tipo di cablaggio dell'apparecchio. La versione standard prevede alimentazione elettronica ON/OFF; cablaggi speciali dimmerabili sono identificati con: DL alimentatore DALI o PD alimentatore push-dim. La sigla relativa al tipo di alimentazione deve essere utilizzata per comporre il codice apparecchio, i codici che non contengono indicazioni relative al tipo di alimentazione saranno gestiti come standard, quindi ON/OFF.
- 16** COLORE: è un codice alfabetico che identifica il colore del corpo dell'apparecchio di illuminazione, il colore è riportato in tabella; esempio: SB = Silver Bombalai, BL = Bronze Lario, ecc.

**LUMEN OUT:**  
this value identifies the out flux of the fitting at measured working conditions according to norms UNI EN 13032-1:2012 and UNI EN 13032-4:2015 operating in environments at 25°C temperature

**WATT:**  
it is the total power absorbed by power grid from the lighting fitting. The value includes the power consumption of the power supply with a thermally stabilized device operating in an environment at 25°C.

**LUMEN / WATT OUT:**  
this values identifies the real efficiency of the lighting fitting as it indicates the out flux for each Watt absorbed by power grid. Tolerance on indicated values +/- 10%.

**mA:**  
It is the value of the power used to apply the LED module.

**CODICE:**  
it is the article code to be used to compose the order code (see section "order code").

**BEAM:**  
Indicates the angular opening of the light beam.
























**K:**  
it identifies the colour temperature of the LEDS expressed in Kelvin degrees; use the indicated letter to complete the article code: "N" for the article equipped with LED 4.000K (standard version) or with "W" for the article equipped with LED 3.000K, "C" for the article equipped with LED 6.000K.

**POWER SUPPLY:**  
it identifies the colour temperature of the LEDS expressed in Kelvin degrees; use the indicated letter to complete the article code: "N" for the article equipped with LED 4.000K (standard version) or with "W" for the article equipped with LED 3.000K, "C" for the article equipped with LED 6.000K.

**COLOR:**  
it is a code alphabetical. It identifies the color of the lighting fitting body, the color is in the list;  
Example: SB Silver Bombalai, BL = Bronze Lario, ect.

## LEGGENDA

### KEY TO SYMBOLS

	Certifica che il prodotto è realizzato in ambito della Comunità Europea e ne rispetta le norme di sicurezza vigenti.	<i>It certifies that product has been realized respecting European Community security norms.</i>
	Classe di isolamento 1	<i>Isolation class 1</i>
	Classe di isolamento 2	<i>Isolation class 2</i>
	Classe di isolamento 3	<i>Isolation class 3</i>
	Apparecchio idoneo per l'utilizzo in ambienti interni	<i>Fitting suitable for internal environments use</i>
	Accessorio attacco a binario	<i>Track mounting system accessory</i>
	Base per fissaggio a parete	<i>Wall mounting base</i>
	indica le tensioni operative dell'apparecchio	<i>it identifies the operating voltage of the fitting</i>
	indica le tensioni operative dell'apparecchio	<i>it identifies the operating voltage of the fitting</i>
	indica le frequenze operative dell'apparecchio	<i>It identifies the operating frequencies of the fitting</i>
	Indica il valore massimo espresso con numero di ellissi di Mac Adam relativo alla selezione del CHIP LED.	<i>It identifies the maximum value relative the selection of the CHIP LED expressed with number Mac Adam of ellipses.</i>
	Indice di abbagliamento	<i>Glare index</i>
	Aspettativa di vita LED	<i>LED service Life</i>
	Vedi condizioni di vendita (vedi pag. 112)	<i>See general conditions (see page 112)</i>
	Efficienza energetica	<i>Energy efficiency</i>
	Possibilità di equipaggiamento con funzionalità "DALI" (accensione e dimmerazione comandati tramite controllo digitale DALI).	<i>DALI function available on request n(lighting and dimming controlled by DALI digital control).</i>
	Possibilità di equipaggiamento con funzionalità "PUSH-DIM" (Accensione e dimmerazione comandati tramite pulsante N.A.)	<i>PUSH-DIM function available on request (lighting and dimming controlled by n.o. button).</i>
	Possibilità di gestire la temperatura colore della luce variando la corrente di alimentazione (abbassando l'intensità luminosa si crea luce calda).	<i>Possibility to manage the light colour temperature through the modify of the power current (lowering the light intensity creates warm light).</i>
	LED con luce speciale per risaltare ed evidenziare oggetti con colori saturi; adatto per tessuti, oggettistica e tutte le applicazioni in cui il colore dell'oggetto deve essere evidenziato.	<i>Special LED light suitable to stand out and highlight the saturated colours; used for fabrics, objects and all the applications where the colour of the object must be highlighted.</i>
	LED con luce speciale per risaltare le tonalità dei prodotti vegetali; adatto per esposizioni di prodotti ortofrutticoli.	<i>Special LED light suitable to stand out the vegetable products; used for the exhibition of fruits and vegetables.</i>
	LED con luce speciale per risaltare le tonalità bianche; adatto per abiti, gioielli e tutti i prodotti dove è necessario evidenziare il colore bianco della superficie.	<i>Special LED light suitable to stand out the white tones; used for clothes and jewelry and all the products in which the white colours of the surface must be highlighted.</i>
	LED con luce speciale per risaltare le tonalità dei prodotti a base di carne; adatto a banchi frigo, macellerie, e tutti i casi in cui è necessario evidenziare il colore rosa/rosso delle merci esposte.	<i>Special LED light suitable to stand out the tones of the meat products; used for refrigerated counters, butchers, and when it's necessary to highlight the pink/red colour of the goods on display.</i>
	Assenza di flickering	<i>Flickering free</i>



# SIMBOLI ED ABBREVIAZIONI

## SYMBOLS AND ABBREVIATIONS



Seguito da una cifra indica il grado di resistenza all'urto dell'involucro esterno dell'apparecchio.

When followed by one number, it indicates degree of resistance of the outer shell of the fixture to the impact.

Codice   Code IK	IK00	IK01	IK02	IK03	IK04	IK05	IK06	IK07	IK08	IK09	IK10
Energia di impatto in Joule Impact energy in Joule	-	0,15	0,2	0,35	0,5	0,7	1	2	5	10	20



Indica il grado di protezione alle polveri ed all'acqua dell'apparecchio.

Indicated the protection degree of the fixture against dust and water.

PRIMA CIFRA FIRST NUMBER		SECONDA CIFRA SECOND NUMBER		LETTERA OPZIONALE AGGIUNTIVA ADDITIONAL OPTIONAL LETTER	
Livello	Definizione Definition	Livello	Definizione Definition	Livello	Definizione Definition
<b>IP0X</b>	Nessuna protezione al contatto e ingresso di oggetti. No protection against the contact and entering of objects.	<b>IPX0</b>	Non protetto. Not protected	<b>A</b>	Protetto contro l'accesso con il dorso della mano. Protected against access with the back of the hand.
<b>IP1X</b>	Qualsiasi grande superficie del corpo, come il dorso della mano, ma nessuna protezione contro il contatto intenzionale con una parte del corpo (50mm). Any big body surface, like the back of the hand, but no protection against intentional contact with a body part (50mm).	<b>IPX1</b>	Protetto da caduta verticale di gocce d'acqua. Protected against the vertical fall of water drops.	<b>B</b>	Protetto contro l'accesso con un dito. Protected against access with a finger.
<b>IP2X</b>	Protetto contro corpi solidi di dimensioni superiori a 12mm. Protected against solids over 12mm.	<b>IPX2</b>	Protetto da caduta di gocce d'acqua con inclinazione massima 15°. Protected against water drops with maximum inclination 15.	<b>C</b>	Protetto contro l'accesso con un attrezzo. Protected against access with a tool.
<b>IP3X</b>	Protetto contro corpi solidi di dimensioni superiori a 2,5mm. Protected against solids over 2,5mm.	<b>IPX3</b>	Protetto dalla pioggia. Protected against rain drops.	<b>D</b>	Protetto contro l'accesso con un filo. Protected against access with a wire.
<b>IP4X</b>	Protetto contro corpi solidi di dimensioni superiori a 1mm. Protected against solids over 1mm.	<b>IPX4</b>	Protetto da spruzzi. Protected against water splashes.		
<b>IP5X</b>	Protetto contro la polvere. Protected against dust.	<b>IPX5</b>	Protetto da getti d'acqua. Protected against water jets.		
<b>IP6X</b>	Totamente protetto contro la polvere. Entirely protected against dust.	<b>IPX6</b>	Protetto da ondate. Protected against waves.		
		<b>IPX7</b>	Protetto da immersione temporanea. Protected against temporary immersion.		
		<b>IPX8</b>	Protetto da immersione continua. Protected against continuous immersion.		



In accordo al par 6.1 della EN 62471: 2008 i gruppi di rischio (per luce blu) sono definiti come segue:

RG According to par. 6.1 of EN 62471: 2008 risk groups (for blue light) are defined as follows:

- **RG 0 Rischio Esente**  
Il concetto di base per la classificazione del gruppo Esente è che la lampada non provoca nessun rischio fotobiologico. Tale requisito è soddisfatto da qualsiasi lampada che non provochi un rischio retinico da luce blu (LB) entro 10.000 s (circa 2,8 h) di esposizione.
- **RG 1 Rischio Basso**  
Il concetto di base per tale classificazione è che la lampada non provoca rischio dovuto a normali limitazioni di funzionamento sull'esposizione. Tale requisito è soddisfatto da qualsiasi lampada che eccede i limiti del Gruppo Esente ma non provochi un rischio retinico da luce blu (LB) entro 100 s di esposizione.
- **RG 2 Rischio Moderato**  
Il concetto di base per la classificazione del Gruppo di Rischio 2 (Rischio Moderato) è che la lampada non provoca un rischio in seguito ad una reazione istintiva guardando sorgenti di luce molto luminose (o in seguito ad una sensazione di disagio termico). Tale requisito è soddisfatto da qualsiasi lampada che eccede i limiti del Gruppo di Rischio 1 (Rischio Basso) ma non provochi un rischio retinico da luce blu (LB) entro 0,25 s di esposizione (risposta avversiva).
- **RG 3 Rischio Elevato**  
Il concetto di base per tale classificazione è che la lampada può costituire un rischio anche in seguito a un'esposizione momentanea o breve. Le lampade che superano i limiti del Gruppo di Rischio 2 sono comprese nel Gruppo di Rischio 3 (Rischio Elevato).

- **RG 0 Exempt Risk Group**  
The basic concept for the classification of Exempt risk group is that the luminaire does not cause any photobiological risk. This requirement is met by any luminaire, which does not cause any retina risk from blue light (BL) within 10,000 s exposure (about 2,8 h).
- **RG 1 Low Risk Group**  
The basic concept for this classification is that the luminaire does not cause any risk due to normal operating limitations at the exposure. This requirement is met by any luminaire, which exceeds the limits of the Exempt Group, however, it does not cause any retina risk from blue light (BL) within 100 s exposure.
- **RG 2 Intermediate Risk Group**  
The basic concept for the Risk Group 2 classification (Intermediate Risk) is that the luminaire does not cause any risk as a result of gut reaction when looking at extremely bright light sources (or as a result of thermal feeling of discomfort). This requirement is met by any luminaire which exceeds the limits of the Risk Group 1 (Low Risk Group), however, it does not cause any retina risk from blue light (BL) within 0,25 s exposure (aversive response).
- **RG 3 High Risk**  
The basic concept for this classification is that the luminaire may cause a risk even as a result of a momentary or brief exposure. The luminaires, which exceed the limits of Risk Group 2 are included into Risk Group 3 (High Risk).



Il Ra (Rendering index) / CRI (Colour Rendering index) indica quanto naturali appaiano i colori degli oggetti da essa illuminati. Apparecchi con indice Ra>80 sono perfetti per l'illuminazione generale di interni ed offrono un ottimo comfort visivo. Per applicazioni dove è necessaria una maggiore definizione dei colori IDEALLUX propone soluzioni con Ra>90.

Ra (Rendering index)/ CRI (Colour Rendering index) indicates how natural the colours of the illuminated objects look. The fixtures with Ra>80 are perfect for internal illumination and offer an excellent visual comfort. For the applications, where a higher colour definition is required, IDEALLUX offers solutions with Ra>90.




Indica il grado di autoestinguenza delle materie plastiche secondo gli standard CEI 50-11. La prova consiste nel simulare le sollecitazioni termiche che possono essere prodotte dalle sorgenti di calore e di accensione in modo da valutare il pericolo di innesco incendio. La sorgente di calore è filo incandescente di Ø4 mm con temperature di prova: 650°C, 750°C, 850°C e 960°C. Il filo incandescente è applicato sull'involucro per 30 secondi e fiamma generata deve cessare entro 20 s dalla rimozione del filo; sotto l'involucro deve essere posizionata carta velina che non deve incendiarsi a contatto con eventuali gocce di materiale liquefatto.

It indicates the flammability degree of plastic materials according to CEI 50-11 standards. The test consists in simulating thermal stress which can be caused by heat and ignition sources in order to identify the risk of fire triggering. The heat source is a glow wire of diam. 4 mm with the test temperatures: 650°C, 750°C, 850°C and 960°C. The glow wire is applied onto the shell for 30 seconds and the generated flame has to stop within 20 s from wire removal; vellum paper should be put underneath the shell and it is not supposed to catch fire on coming in contact with any drops of liquefied material.



## SYMBOLES ET ABRÉVIATIONS SÍMBOLOS Y ABREVIATURAS

	Certifie que le produit est réalisé au sein de l'Union Européenne et dans le respect des normes de sécurités en vigueur	<i>Certifica que el producto es realizado en el ambito de la Comunidad Europea y respeta las normas de seguridad vigentes</i>
	Classe d'isolation 1	<i>Clase de aislamiento 1</i>
	Classe d'isolation 2	<i>Clase de aislamiento 2</i>
	Classe d'isolation 3	<i>Clase de aislamiento 3</i>
	Luminaire adapté pour une installation en intérieur	<i>Luminaria adecuada para uso en interiores</i>
	accessoire de fixation de rail	<i>accesorio de fijación de carril</i>
	Base pour fixation murale	<i>Base para fijación a pared</i>
	Indique les tensions de travail de l'appareil	<i>Indica las tensiones operativas de la luminaria</i>
	Indique les tensions de travail de l'appareil	<i>Indica las tensiones operativas de la luminaria</i>
	Indique les fréquences de travail de l'appareil	<i>Indica las frecuencias operativas de la luminaria.</i>
	Indique la valeur maximale concernant la sélection du chip led exprimée par la taille de l'ellipse MacAdam.	<i>Identifica el valor máximo relativo de la selección del CHIP LED indicado con el número de MacAdam de elipses.</i>
	Indice d'éblouissement	<i>Índice de deslumbramiento</i>
	Durée de vie LED	<i>Viad Util LED</i>
	Garantie. Plus de détails sur notre page Web.	<i>Garantía. más detalles en nuestra página web.</i>
	Classe de consommation d'énergie	<i>Clase de consumo de energia</i>
	Schéma di connexion pour appareil DALI	<i>Esquema de conexiòn luminaria DALI</i>
	Possibilité d'équipement avec fonction "PUSH-DIM" (allumage et dimmer commandés par la touche N. A).	<i>Posibilidad de equipamiento con función "PUSH-DIM" (encendido i regulación controlados co teca N.A.).</i>
	Possibilité de gérer la température de couleur de la lumière en faisant varier l'alimentation (baisser l'intensité lumineuse crée une lumière chaude)	<i>Capacidad para gestionar la temperatura de color de la luz variando la fuente de alimentación (al reducir la intensidad de la luz se crea una luz cálida)</i>
	LED avec lumière spéciale pour se démarquer et mettre en valeur les objets avec des couleurs saturées; convient aux tissus, objets et toutes applications où la couleur de l'objet doit être mise en valeur	<i>LED con luz especial para resaltar y resaltar objetos con colores saturados; Adecuado para tejidos, objetos y todas las aplicaciones donde se debe resaltar el color del objeto</i>
	LED avec lumière spéciale pour rehausser les nuances des produits végétaux; convient pour les étalages de fruits et légumes	<i>LED con luz especial para realzar las tonalidades de los productos vegetales; Apto para exhibiciones de frutas y verduras</i>
	LED avec lumière spéciale pour faire ressortir les tons blancs; convient pour les vêtements, les bijoux et tous les produits où il est nécessaire de mettre en valeur la couleur blanche de la surface	<i>LED con luz especial para resaltar los tonos blancos; Apto para ropa, bisutería y todos los productos donde sea necesario resaltar el color blanco de la superficie</i>
	LED avec lumière spéciale pour rehausser le ton des produits carnés; convient pour les comptoirs réfrigérés, les bouchers, et tous les cas où il est nécessaire de mettre en évidence la couleur rose/rouge des marchandises exposées.	<i>LED con luz especial para realzar el tono de los productos cárnicos; Apto para mostradores refrigerados, carnicerías y todos los casos en los que sea necesario resaltar el color rosa / rojo de la mercancía expuesta.</i>
	Absence vacillante	<i>Ausencia parpadeo</i>

# SYMBOLES ET ABRÉVIATIONS SÍMBOLOS Y ABREVIATURAS

IK ..  
EN 60068

Suivi d'un chiffre définit le degré de protection de l'emballage du produit contre les impacts mécaniques externes.

Seguido de un dígito indica el grado de resistencia al impacto de la cubierta externa de la luminaria.

Code IK Código	IK00	IK01	IK02	IK03	IK04	IK05	IK06	IK07	IK08	IK09	IK10
Énergie d'impact en Joule Energía de impacto en Joules	-	0,15	0,2	0,35	0,5	0,7	1	2	5	10	20

IP ..  
EN 60529

Indique le degré de protection de l'appareil contre les poussières et l'eau. Indica el grado de protección de la luminaria al polvo y al agua.

PREMIER CHIFFRE PRIMERA CIFRA		DEUXIÈME CHIFFRE SEGUNDA CIFRA		LETTRE OPTION AJOUTÉE LETRA OPCIONAL ADJUNTA	
Livello	Definizione Definition	Livello	Definizione Definition	Livello	Definizione Definition
<b>IPOX</b>	Aucune protection au contact et à l'entrée d'objets. Ninguna protección al contacto o ingreso de objetos.	<b>IPX0</b>	Non protégé. No protegido	<b>A</b>	Protégé contre l'accès avec le dos de la main. Protegido contra el encendido con el dorso de la mano.
<b>IP1X</b>	N'importe quelle grande superficie du corps, comme le dos de la main, mais aucune protection contre le contact intentionnel avec une partie du corps. (50 mm). Cualquier superficie grande del cuerpo, como el dorso de la mano, pero ninguna protección contra el contacto intencional con una parte del cuerpo (50 mm).	<b>IPX1</b>	Protégé contre la chute verticale de gouttes d'eau. Protegido de la caída vertical de gotas de agua.	<b>B</b>	Protégé contre l'accès avec un doigt. Protegido del encendido con un dedo.
<b>IP2X</b>	Protégé contre des corps solides de dimension supérieure à 12 mm. Protegido de cuerpos sólidos superiores a 12 mm.	<b>IPX2</b>	Protégé contre les chutes de gouttes d'eau ayant une inclinaison maximale de 15°. Protegido de caída de gotas de agua con inclinación máxima 15°.	<b>C</b>	Protégé contre l'accès avec un outil. Protegido contra el encendido con un instrumento.
<b>IP3X</b>	Protégé contre les corps solides ayant une dimension supérieure à 2,5 mm. Protegido de cuerpos sólidos superiores a 2,5 mm.	<b>IPX3</b>	Protégé contre la pluie. Protegido de la lluvia.	<b>D</b>	Protégé contre l'accès avec un fil. Protegido del encendido con cuerda o cable.
<b>IP4X</b>	Protégé contre les corps solides ayant une dimension supérieure à 1 mm. Protegido de cuerpos sólidos de dimensión superior a 1 mm.	<b>IPX4</b>	Protégé contre les jets. Protegido de salpicaduras.		
<b>IP5X</b>	Protégé contre la poussière. Protección del polvo.	<b>IPX5</b>	Protégé contre les jets d'eau. Protegido de chorros de agua.		
<b>IP6X</b>	Totalement protégé contre la poussière. Completamente protegido del polvo.	<b>IPX6</b>	Protégé contre les submersions. Protegido de olas.		
		<b>IPX7</b>	Protégé contre une immersion temporaire. Protegido de inmersión temporal.		
		<b>IPX8</b>	Protégé contre une immersion continue. Protegido de inmersión continua.		

RG ..  
EN 62471

RG En accord avec le paragraphe 6.1 de la norme EN 62471 : 2008 les groupes de risques (pour la lumière bleue) sont définies comme suit:

• **RG 0 Risque 0**

Le concept de base pour la classification du groupe risque 0 définit que la lampe ne provoque aucun risque photobiologique. Cette condition est remplie par toutes les lampes qui ne provoquent pas de risque rétinien, lié à la lumière bleue, (LB) compris dans les 10.000 s (environ 2,8 h) d'exposition.

• **RG 1 Risque faible**

Le concept de base adopté pour cette classification définit que la lampe ne provoque pas de risques dus aux limitations normales de fonctionnement sur l'exposition. Cette exigence est satisfaite par toute lampe qui excède les limitations du Gruppo Esente (Risque 0) mais ne provoque pas de risque rétinien lié à la lumière bleue (LB) compris dans les 100 s d'exposition.

• **RG 2 Risque modéré**

Le concept de base adopté pour la classification du Gruppo di Rischio 2 (Risque modéré) définit que la lampe ne provoque pas de risque après une réaction instinctive en regardant des sources de lumière très lumineuse (après sensation de désagrément thermique). Cette exigence est satisfaite par n'importe quelle lampe qui excède les limites du Gruppo di Rischio 1 (Risque faible) mais ne provoque pas un risque rétinien lié à la lumière bleue (LB) compris dans les 0,25 s d'exposition (réponse adverse).

• **RG 3 Risque élevé**

Le concept de base adopté pour la classification définit que la lampe peut constituer un risque même après une exposition momentanée ou brève. Les lampes qui dépassent les limites du Gruppo di Rischio (Risque élevé) sont incluses dans le Gruppo di Rischio 3 (Risque élevé).

RG En acuerdo al par 6.1 de la EN 62471:2008 los grupos de riesgo (por luz azul) son definidos como sigue:

• **RG 0 Riesgo Exento**

El concepto básico para la clasificación del grupo Exento es que la lámpara no cause ningún riesgo fotobiológico. Este requisito se cumple con cualquier lámpara que no provoque riesgo retiniano por luz azul (LB) hasta 10.000s (aproximadamente 2,8 h) de exposición.

• **RG 1 Riesgo Bajo**

El concepto básico de esta clasificación es que la lámpara no cause ningún riesgo a normales limitaciones de funcionamiento en exposición. Este requisito es cumplido por cualquier lámpara que supera los límites del Grupo de Riesgo 1 (Riesgo Bajo), pero no causa riesgo retiniano por luz azul (LB) hasta 100 s de exposición.

• **RG 2 Moderado**

El concepto básico para la clasificación del Grupo de Riesgo 2 (Riesgo Moderado) es que la lámpara no cause riesgo como resultado de una reacción instintiva mirando fuentes de luz muy luminosas (o luego de sensación de desequilibrio térmico). Este requisito es cumplido por cualquier lámpara que supera los límites del Grupo de Riesgo 1 (Riesgo Bajo), pero no causa riesgo retiniano por luz azul (LB) hasta 0,25 s exposición (respuesta adversa).

• **RG 3 Riesgo Elevado**

El concepto de base para esta clasificación es que la lámpara puede constituir riesgo aún luego de exposición breve o momentánea. Las lámparas que excedan los límites del Grupo de Riesgo 2 se incluyen en el Grupo de Riesgo 3 (Riesgo Elevado).

>90  
CRI

Il **Ra (Rendering index) / CRI (Colour Rendering index)** indique le rendement des couleurs des objets éclairés. Des appareils avec un indice Ra>80 sont parfaits pour l'illumination générale d'intérieur et offrent un confort visuel optimal. Pour des applications nécessitant une définition majeure des couleurs Ideallux propose des solutions avec un Ra>90.

Il **Ra (Rendering index) / CRI (Colour Rendering index)** indica cuánto naturales aparecen los colores de los objetos iluminados por tal. Dispositivos con índice Ra> 80 perfectos para iluminación general de interiores y proporcionan un excelente confort visual. Para aplicaciones donde se requiere una mayor definición de color IDEALLUX propone soluciones con Ra> 90.

850°  
EN 60598

Indique le degré d'auto-extinction des matières plastiques selon les standards **CEI 50-11**. Le Test consiste à simuler les sollicitations thermiques qui peuvent être produites par les sources de chaleur et d'allumage pour évaluer le danger d'amorcer un incendie. La source de chaleur est un fil incandescent de Ø4 mm avec une température d'essai de : 650°C, 750°C, 850°C et 960°C. Le fil incandescent est appliqué sur l'enveloppe pendant 30 secondes et la flamme provoquée doit cesser dans les 20 secondes après avoir enlevé le fil ; un papier vélin, qui ne doit pas s'enflammer au contact avec certains matériaux liquéfiés, doit être positionné sous l'enveloppe.

Indica el grado de auto extinción del material plástico según los estándares **estadounidense CEI 50-11**. La prueba consiste en simular la tensión térmica que puede producirse a partir de fuentes de calor y de ignición, a fin de evaluar el peligro de ignición o incendio. La fuente de calor es alambre incandescente Ø4 mm con temperaturas de prueba: 650° C, 750° C, 850° C y 960° C. El alambre incandescente se aplica a la cubierta por 30 segundos y la llama generada debe cesar antes de 20 s después de la extracción del alambre; debajo de la cubierta se coloca papel de seda que no debe encender en contacto con eventuales gotas material licuofactible.

# INDICE ANALITICO PRODOTTI E ACCESSORI

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# CONDIZIONI GENERALI DI VENDITA

## GENERAL SALES CONDITIONS

### 1. PREMESSE

Le forniture comprendono solo quanto espressamente specificato nella conferma di accettazione dell'ordine della ditta Venditrice e sono regolate dalle presenti condizioni generali, salvo deroghe risultanti da esplicito accordo scritto. Eventuali variazioni o comunicazioni durante il corso della fornitura non costituiscono invalidazione del contratto. I termini di consegna convenuti hanno valore indicativo e non tassativo. In qualunque momento l'esecuzione della fornitura potrà essere sospesa in caso di mutamento nelle condizioni patrimoniali del Committente ai sensi dell'Art. 1461 del Codice Civile.

### 2. PREZZI

I prezzi si intendono Franco Fabbrica della ditta Venditrice. Essi non comprendono prestazioni ed oneri non menzionati. Gli imballaggi sono inclusi nel prezzo, salvo diversa pattuizione scritta.

### 3. VARIABILITA' PREZZI

I prezzi indicati nel contratto sono stati calcolati in base ai costi dei materiali e della manodopera alla data del contratto stesso, in base alle relative tabelle dell'ANIE. Il sistema di calcolo delle variazioni di qualsiasi entità in più o in meno, che dovessero verificarsi su detti costi durante il periodo dell'esecuzione della vendita, verrà effettuato in base alle clausole di variabilità prezzi vigenti per apparecchi di illuminazione pubblicato dall'ANIE.

### 4. MODALITA' DI PAGAMENTO

Si riconoscono solo i pagamenti fatti direttamente al nostro domicilio o a persone da noi autorizzate.

### 5. RISERVA DI PROPRIETA'

La ditta Venditrice conserva la proprietà sui materiali fino a totale pagamento di essi, ma i rischi sono assunti dal compratore sin dalla consegna. Qualunque atto del Committente che, salvo esplicito consenso scritto della Ditta Venditrice, involga pregiudizio al diritto della Ditta Venditrice alla rivendita del materiale, sarà sottoposto alle sanzioni di legge.

### 6. CONSEGNA

Il termine di consegna indicato non impegna la Ditta Venditrice, la quale non è tenuta a corrispondere indennizzi di sorta per eventuali danni diretti ed indiretti dovuti a ritardi di consegna o ad interruzione o a risoluzione parziale o totale della fornitura. Il termine di consegna decorre dalla data della conferma d'ordine e in ogni caso non ha inizio prima del ricevimento della rata di pagamento all'ordine quando essa sia stata concordata. Esso si intende di diritto adeguatamente prorogato se i pagamenti non vengono effettuati puntualmente, se il Committente manca di fornire in tempo utile quanto stabilito nel contratto o se comunque insorgano cause indipendenti dalla Ditta Venditrice, ivi compresi eventuali ritardi di subfornitori.

### 7. RESO MERCE

La merce può essere resa esclusivamente previa autorizzazione della Ditta Venditrice e con un deprezzamento minimo del 30%

### 8. TRASPORTO

La merce viaggia rischio e pericolo del Committente comprese le eventuali rotture anche se spedita in porto franco. Trascorsi 8 giorni dal ricevimento non si accettano reclami. Gli ordini saranno evasi secondo la disponibilità e le spedizioni potranno essere fatte anche parzialmente.

### 9. DATI TECNICI

I materiali forniti, salvo diverse particolari prescrizioni da concordarsi per iscritto, corrispondono alle vigenti norme del CEI - Comitato Elettrotecnico Italiano, ove queste siano applicabili. La ditta Venditrice si riserva di apportare in qualunque momento ai propri prodotti quelle modifiche che ritenesse tecnicamente convenienti. I disegni dalle Ditta Venditrice sono di sua proprietà e non possono dal Committente essere consegnati a terzi né prodotti senza autorizzazione scritta.

### 10. GARANZIA

Ideallux garantisce i suoi prodotti per 24 mesi dalla data di fabbricazione indicata sul prodotto. La garanzia copre tutti i difetti di fabbricazione siano essi di natura meccanica o elettronica. Non sono inclusi in garanzia tutti i danni causati dalla movimentazione e/o utilizzo errato e non conforme a quanto riportato sulle istruzioni d'uso. La garanzia decade nel caso in cui i prodotti vengano manomessi e/o modificati. Il prodotto difettoso per cui è richiesto l'intervento in garanzia, può essere riparato o sostituito con un articolo complementare sia nuovo che ricondizionato ad insindacabile giudizio di Ideallux. I prodotti che riportano il marchio "5 years warranty" sono coperti da 5 anni di garanzia considerando 14h/giorno per 365 giorni solari annuali, nel rispetto del lifetime indicato sulla scheda prodotto. I reclami per interventi in garanzia entro i 5 anni dalla data di fabbricazione (ad esclusione di quelli ricevuti entro i termini legislativi sopra indicati) saranno soggetti ad approvazione di Ideallux. Guasti che rientrano nella difettosità fisiologica dichiarata e comunque entro il 5% del totale degli articoli installati non sono coperti dalla garanzia 5 anni. Termini e condizioni generali di garanzia sono disponibili e possono essere richiesti presso la sede Ideallux.

### 11. CONTROVERSIE

I contratti, anche se stipulati con cittadini esteri o per materiali forniti all'estero, sono regolati dalla vigente legislatura italiana. Foro competente è soltanto quello avente giurisdizione nella sede legale della Ditta Venditrice anche in deroga agli art. 32 e seguenti del Codice di Procedura Civile, esclusa per il Committente la possibilità di adire l'Autorità Giudiziaria di altro luogo anche in via di garanzia o di connessione di causa, ma salva la facoltà alla Ditta Venditrice di esperire, in qualità di attrice, un'azione nel luogo di residenza, in Italia o all'estero, del Committente. Le eventuali contestazioni non dispensano il Committente dall'osservare le condizioni di pagamento pattuite e non implicano alcun prolungamento dei termini convenuti. Le spese di contratto, la sua registrazione e l'eventuale trascrizione sono a carico del Committente.

### 1. INTRODUCTION

*The supplies include only what is expressly specified in the order acceptance confirmation of the Vending Company and are governed by these general conditions, save for provisions resulting from an explicit written agreement. Any changes or notifications during the supply do not constitute the invalidation of the contract. The agreed delivery terms are merely indicative and are not binding. The execution of the supply may be suspended at any time due to changes to the financial conditions of the Buyer in accordance with the Art. 1461 of the Italian Civil Code.*

### 2. PRICES

*The prices are Ex-works of the Vending Company and do not include services at charges that have not been mentioned. The packages are included in price. The package cannot be returned, save for a different written agreement.*

### 3. CHANGES IN PRICES

*The prices shown in the contract were calculated based on the costs of the materials and of the labor on the date of the contract based on the related ANIE tables. The calculation system of any kind of changes, whether more or less, that may arise to said costs during the period of execution of the sale will be carried out based on the clauses of the changes of prices in force for lighting equipment published by ANIE.*

### 4. PAYMENT

*We recognize as valid payment only the ones made directly to our address or to our authorized people.*

### 5. RETENTION OF TITLE

*The Vending Company keeps the ownership of materials until paid in full, but the risks are assumed by the Buyer upon delivery. Any action of the Buyer, that results in prejudice to the right of the Vending Company to resell the material, will be subjected to legal sanctions, save for the explicit written consent of the Vending Company.*

### 6. DELIVERY

*The delivery period shown does not bind the Vending Company, which is not bound to pay indemnities arising from any direct or indirect damage due to delivery delays, downtime or the partial or total return of the supply. The delivery period is effective from the date of the order confirmation and in any case does not begin prior to having received the payment instalment for the agreed amount. This term is adequately extended by right if the payments are not made punctually, if the Buyer fails to supply what is set out in the contract in useful time or if causes nonetheless arise regardless of the Vending Company, therein including any delays of sub-contractors.*

### 7. RETURN OF GOODS

*The goods may only be returned upon the authorization of the Vending Company and with a depreciation of 30%.*

### 8. TRANSPORT

*The goods travel at Customer's risks and danger, even in case of damage in fall of delivery terms Free destination.*

### 9. TECHNICAL DATA

*Save for special prescriptions to be agreed in writing, the materials supplied correspond to the standards in force of the CEI (Italian Electrical and Technical Council), where applicable. The Vending Company reserves the right to change its products at any time where deemed technically convenient. The designs of the Vending Company are its own property and may not be given by the Buyer to third parties without written authorization.*

### 10. WARRANTY

*IDEALLUX guarantees its products for 24 months from the date of production indicated on the item. The warranty covers all manufacturing defects whether they are of a mechanical or electronic nature. All damage caused by handling and/or incorrect use, or use not in accordance with the instructions indicated in the operating instructions are not covered by this warranty. The warranty will expire if the products are tampered with and/or modified. The defective product requiring warranty intervention can be repaired or replaced with a similar article both new and reconditioned at the discretion of Ideallux. The products with mark "5 years warranty" are covered by 5 years warranty considering 14 h/day for 365 solar annual days, respecting the lifetime indicated in the product data sheet. Claims for warranty work within 5 years from the date of manufacture (except those received within the above mentioned legislative terms) will be subject to Ideallux approval. Faults that fall within the declared physiological defect and in any case within 5% of the total installed items will not be covered by the 5 years warranty. Warranty general terms and conditions are available and can be requested at Ideallux offices.*

### 11. DISPUTES

*Even if stipulated with foreign citizens or for materials supplied abroad, the contracts are governed by the Italian legislation in force. The only competent court is the one having jurisdiction in the registered office of the Vending Company, also in provision of Art. 32 and ff. of the Italian Code of Civil Procedure, apart from the Buyer's possibility of applying to the Judicial Authority of another place also as a guarantee or related cause, but save for the right of the Vending Company to carry out an action in the place of residence of the Buyer in Italy or abroad as the plaintiff. Any disputes do not waive the Buyer from observing the agreed payment conditions and do not imply any extension of the agreed terms. The costs of the contract, its registration and transcription are at the expense of the Buyer.*

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# CONDITIONS GÉNÉRALES DE VENTE

## CONDICIONES GENERALES DE VENTA

### 1. GÉNÉRALITÉS

Les fournitures comprennent exclusivement les indications expressément spécifiées dans la confirmation d'acceptation de la commande par le vendeur et sont réglementées par les conditions générales présentes, sauf en cas de dérogations résultant d'accord écrit explicite. Des variations éventuelles ou des communications durant le déroulement de la fourniture ne constituent pas d'invalidation du contrat. Les termes de livraison convenus ont une valeur indicative et non impérative. À tout moment, l'exécution de la fourniture pourra être suspendue en cas de changement dans les conditions patrimoniale du Client aux termes de l'article 1461 du Code Civil.

### 2. PRIX

Les prix sont départ usine du vendeur, ils ne comprennent pas les charges pour prestations non mentionnées. Les emballages ne sont pas à retourner, sauf en cas de convention contraire écrite.

### 3. VARIATIONS DES PRIX

Les prix indiqués dans le contrat ont été calculés en fonctions des couts des matériaux et de la main d'œuvre à la date du contrat, en fonction des tableaux de l'ANIE correspondants. Le système de calcul des variations de toute entité en plus ou en moins qui aurait lieu sur ces coûts durant la période de l'exécution de la vente, sera effectué en fonction des clauses de variation des prix en vigueur pour les appareils d'éclairage publiés par l'ANIE.

### 4. MODALITÉS DE PAIEMENT

Les paiements pourront être effectués uniquement au domicile du vendeur ou à des personnes autorisées.

### 5. RÉSERVE DE PROPRIÉTÉ

Le Vendeur conserve la propriété sur les matériels jusqu'au paiement total de ceux-ci mais les risques sont assumés par l'acheteur dès la livraison. Tout acte du Client, sauf en cas de consentement écrit explicite du vendeur, qui porterait préjudice au droit du Vendeur en cas de revente du matériel sera soumis à des sanctions légales.

### 6. LIVRAISON

Le délai de livraison indiqué n'engage pas le Vendeur et ne pourra pas donner droit à des indemnités d'aucune sorte pour d'éventuels dommages directs et indirects dus à des retards de livraison ou à une interruption ou à une résolution partielle ou totale de la fourniture. Le délai de livraison prend effet à partir de la date de confirmation de commande et dans tous les cas ne commence pas avant la réception du paiement accord par acompte de la commande. Sa prorogation est légalement valable : en cas de paiements qui ne seraient pas effectués ponctuellement, si le Client ne fournit pas en temps utile ce qui est établi sur le contrat ou si des causes indépendantes de la volonté du Vendeur surviennent, y compris des retards éventuels des sous-traitants.

### 7. RENDU DE MARCHANDISE

La marchandise peut être vendue exclusivement avec l'accord du vendeur et avec une dépréciation de 30 %.

### 8. TRANSPORT

La marchandise voyage aux risques et périls du Client y compris les éventuelles ruptures même si l'expédition est franco destination. Le Vendeur n'acceptera pas de réclamations au-delà du délai de 8 jours à partir de la date de réception. Les commandes seront expédiées selon les disponibilités et les expéditions pourront être effectuées même partiellement.

### 9. DONNÉES TECHNIQUES

Les matériaux fournis, sauf en cas de prescriptions particulières à accorder par écrit, correspondent aux normes en vigueur du CEI - Comité Electrotechnique Italien là où elles sont applicables. Le vendeur se réserve le droit d'apporter toute modification qu'il retient techniquement appropriée à tout moment aux propres produits. Les dessins des Vendeurs sont de sa propriété et le Client ne peut pas les livrer à des tiers, ni les produire sans autorisation écrite.

### 10. GARANTIE

Ideallux garantit tous ses produits pendant 24 mois à partir de la date de fabrication indiquée sur le produit. La garantie couvre tous les défauts de fabrication de nature mécanique ou électronique. Tous les dommages causés par la manutention et/ou l'utilisation incorrecte et non conforme aux indications figurant sur les instructions d'utilisation sont exclus de la garantie. La garantie n'est pas valable en cas d'endommagement et/ou modification des produits. Le produit défectueux pour lequel on demande une intervention sous garantie, peut être réparé ou remplacé par un article complémentaire neuf ou reconditionné selon les critères de jugement, sans appel, de Ideallux. Les produits portant la mention "5 years warranty" sont couverts par une garantie de 5 ans considérant 14 heures/jour pour 365 jours, dans le respect de la Durée de vie (lifetime) indiquée sur la fiche technique du produit. Les réclamations pour des interventions garanties durant les 5 années à partir de la date de fabrication (à l'exclusion de celles reçues dans les délais législatifs indiqués ci-dessus) seront soumises à l'approbation de Ideallux. Les pannes faisant partie d'un défaut physiologique déclaré et à hauteur de 5 % du total des articles installés ne sont pas couverts par la garantie de 5 ans. Les termes et conditions générales de garantie sont disponibles et peuvent être demandés au siège de Ideallux.

### 11. CONTROVERSES

Les contrats, même stipulés avec des citoyens étrangers ou pour des matériaux fournis à l'étranger, sont réglementés par la législation italienne en vigueur. Le tribunal compétent est exclusivement celui de la juridiction du siège légal du Vendeur même en cas de dérogation aux art. 32 et art. suivants du Code de Procédure Civile, le client n'ayant pas la possibilité de recourir aux voies légales d'un autre lieu même à titre de garantie ou de connectivité. Le Vendeur a la faculté d'avoir recours, en qualité d'acteur, à une action en justice sur le lieu de résidence du Client, en Italie ou à l'étranger. Les contestations éventuelles ne dispensent pas le client d'observer les conditions de paiement accordées et n'impliquent aucunement le prolongement des termes convenus. Les frais de contrat, son enregistrement et sa transcription éventuelle sont à la charge du Client.

### 1. PREMISAS

Los suministros incluyen solamente lo expresamente especificado al confirmar la aceptación del pedido de la Compañía Vendedora y son regulados por las presentes condiciones generales, salvo excepción resultante de un explícito acuerdo por escrito. Posibles variaciones o comunicaciones durante el transcurso del suministro no constituyen la invalidación del contrato. Los plazos de entrega convenidos tienen valor indicativo y no perentorio. En cualquier momento la ejecución del suministro podrá ser suspendida en caso de modificación de las condiciones patrimoniales del Cliente a efectos del Art. 1461 del Código Civil italiano.

### 2. PRECIOS

Los precios se suponen Franco Fábrica de la Compañía Vendedora. Los mismos no incluyen prestaciones ni cargos no mencionados. Los embalajes se consideran incluidos en el precio, salvo acuerdo contrario por escrito.

### 3. VARIACIÓN DE PRECIOS

Los precios indicados en el contrato han sido calculados según los costes del material y de la mano de obra a la fecha del contrato mismo, según el índice correspondiente de la ANIE (Asociación industrial italiana del sector eléctrico y electrónico). El cálculo del as variaciones de cualquier índole, que pudieren verificarse sobre dichos costes durante el periodo de ejecución de la venta, se efectuará según las cláusulas de variación de los precios vigentes para luminarias publicado por la ANIE.

### 4. FORMA DE PAGO

Se reconocen solamente los pagos efectuados directamente a nuestro domicilio o a nuestro personal autorizado.

### 5. RESERVA DE DOMINIO

La Compañía Vendedora mantiene la propiedad sobre los materiales hasta el pago total de estos, pero los riesgos son asumidos por parte del comprador desde el momento de la entrega. Cualquier acto del Cliente que, salvo explícito consentimiento por escrito de la compañía vendedora, afecte el derecho del Vendedor a la reventa del material, estará sujeto a las sanciones establecidas por la ley.

### 6. ENTREGA

El plazo de entrega indicado no compromete a la empresa Vendedora, la cual no está obligada a pagar indemnizaciones de ningún tipo por eventuales daños directos o indirectos como consecuencia de retrasos en la entrega o interrupción o terminación parcial o total del suministro de productos. El plazo de entrega corre desde la fecha de confirmación del pedido y en todo caso no comienza hasta la recepción de la cuota de pago en el plazo acordado. Dicho plazo se considerará automáticamente prorrogado si los pagos no se efectúan puntualmente, si el Cliente no proporciona a tiempo lo establecido en el contrato o si de todos modos surgen causas independientes de la empresa Vendedora, incluidas demoras por parte de subcontratistas.

### 7. DEVOLUCIÓN

La mercadería se puede devolver exclusivamente previa autorización de la empresa Vendedora y con una depreciación mínima del 30%.

### 8. TRANSPORTE

La mercadería viaja a riesgo y responsabilidad del Cliente incluidas las posibles roturas incluso cuando fuese enviada con porte pagado. Transcurridos ocho días de la recepción no se aceptan reclamos. Los pedidos serán despachados según la disponibilidad y los envíos pueden realizarse parcialmente.

### 9. DATOS TÉCNICOS

Los materiales suministrados, a menos que se acuerde lo contrario por escrito, corresponden a las normas vigentes del CEI - Comité Electrotécnico Italiano, donde estas sean aplicables. La empresa Vendedora se reserva el derecho de aportar en cualquier momento a sus productos aquellas modificaciones que considere técnicamente convenientes. Los diseños de la empresa Vendedora son de su absoluta propiedad y no pueden ser entregados por el Cliente a terceros ni reproducidos sin previa autorización escrita.

### 10. GARANTÍA

Ideallux garantiza sus productos por 24 meses a partir de la fecha de fabricación indicada en el producto. La garantía cubre todo defecto de fabricación sea el mismo de índole mecánica o electrónica. No están incluidos en la garantía los daños causados por manipulación y/o uso incorrectos o no conforme a lo escrito en las instrucciones de uso. La garantía queda sin efecto en el caso en que los productos fuesen alterados y/o modificados. El producto defectuoso por el cual se solicita la intervención de la garantía, puede ser reparado o sustituido con un artículo complementario nuevo o recondicionado a criterio indiscutible de Ideallux. Los productos que llevan la marca "5 years warranty" están cubiertos por 5 años de garantía considerando 14h/día por 365 días anuales, respetando la vida útil indicada en la ficha del producto. Los reclamos para aplicación de la garantía dentro de los 5 años de la fecha de fabricación (excepto aquellos recibidos antes de los términos legislativos ya indicados) serán sometidos a la aprobación de Ideallux. Aquellos defectuosos que se consideren dentro de la defectuosidad fisiológicamente declarada y en todo caso dentro del 5% del total de los artículos instalados no están cubiertos por la garantía de 5 años. Los plazos y las condiciones generales de garantía están disponibles y pueden ser requeridos a la sede de Ideallux.

### 11. CONTROVERSIAS

Los contratos, incluso cuando fueren celebrados con ciudadanos extranjeros o para materiales vendidos al exterior, son regulados por la legislación italiana vigente. El Foro competente será exclusivamente el que tenga jurisdicción en la sede legal de la empresa Vendedora no obstante lo dispuesto por el Art. 32 y siguientes del Código de Procedimiento Civil italiano, excluida para el Cliente la posibilidad de recurrir a la Autoridad Judicial de otro lugar, incluso como garantía o en relación con la causa, pero sin perjuicio de la facultad de la empresa Vendedora de interponer una acción al Cliente, en calidad de demandante, en el lugar de residencia, en Italia o al exterior. Las eventuales disputas no eximirán al Cliente de respetar las condiciones de pago pactadas y no implican ninguna prolongación de los plazos convenidos. Los gastos de contrato, su registro y la eventual transcripción quedan a cargo del Cliente.

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**GRUPPO RAINA**  
ITALIANA RETAIL



**GRUPPO RAINA**  
ITALIANARETAIL

Via Casinghino, 11  
27024 Cilavegna (PV) | Italy

Tel. +39 0381 969814  
Fax +39 0381 669709

[grupporaina@ideallux.it](mailto:grupporaina@ideallux.it)  
[www.grupporaina.it](http://www.grupporaina.it)