

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

SELEZIONE RETAIL

Made in Italy  
orgogliosi di esserlo





GRUPPO  **RAINA**

L'unione fa la luce.

S E L E Z I O N E   R E T A I L



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*TRACK PROJECTORS*

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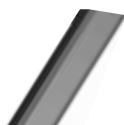


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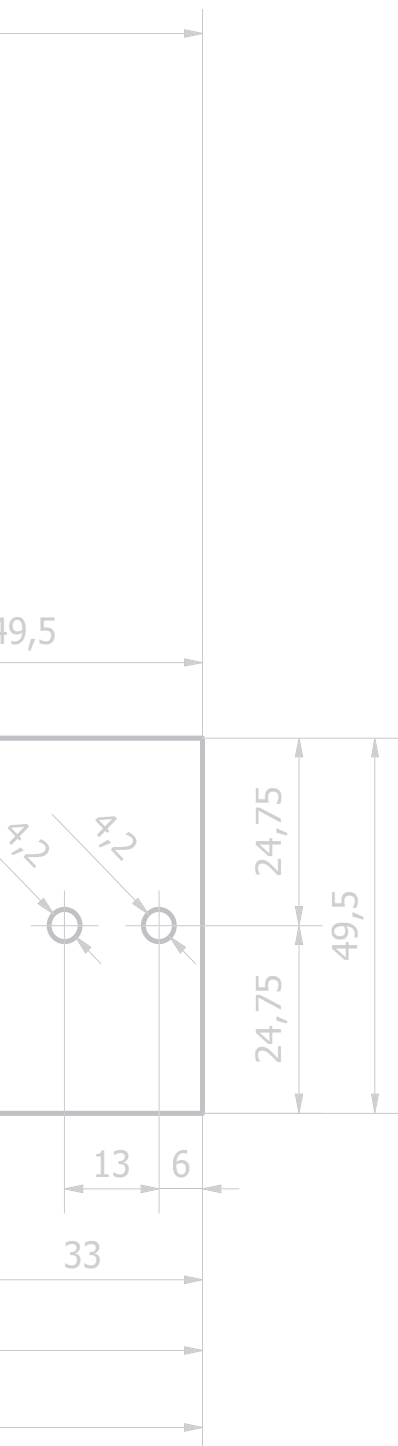


MADE IN ITALY

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.*





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".*



**BLL (standard)**

**BT (on request)**

**SB (on request)**

**GK (on request)**

**WI (standard)**

Selezione colori  
*Colours selection*

**BF (on request)**

**RR (on request)**

**BL (on request)**



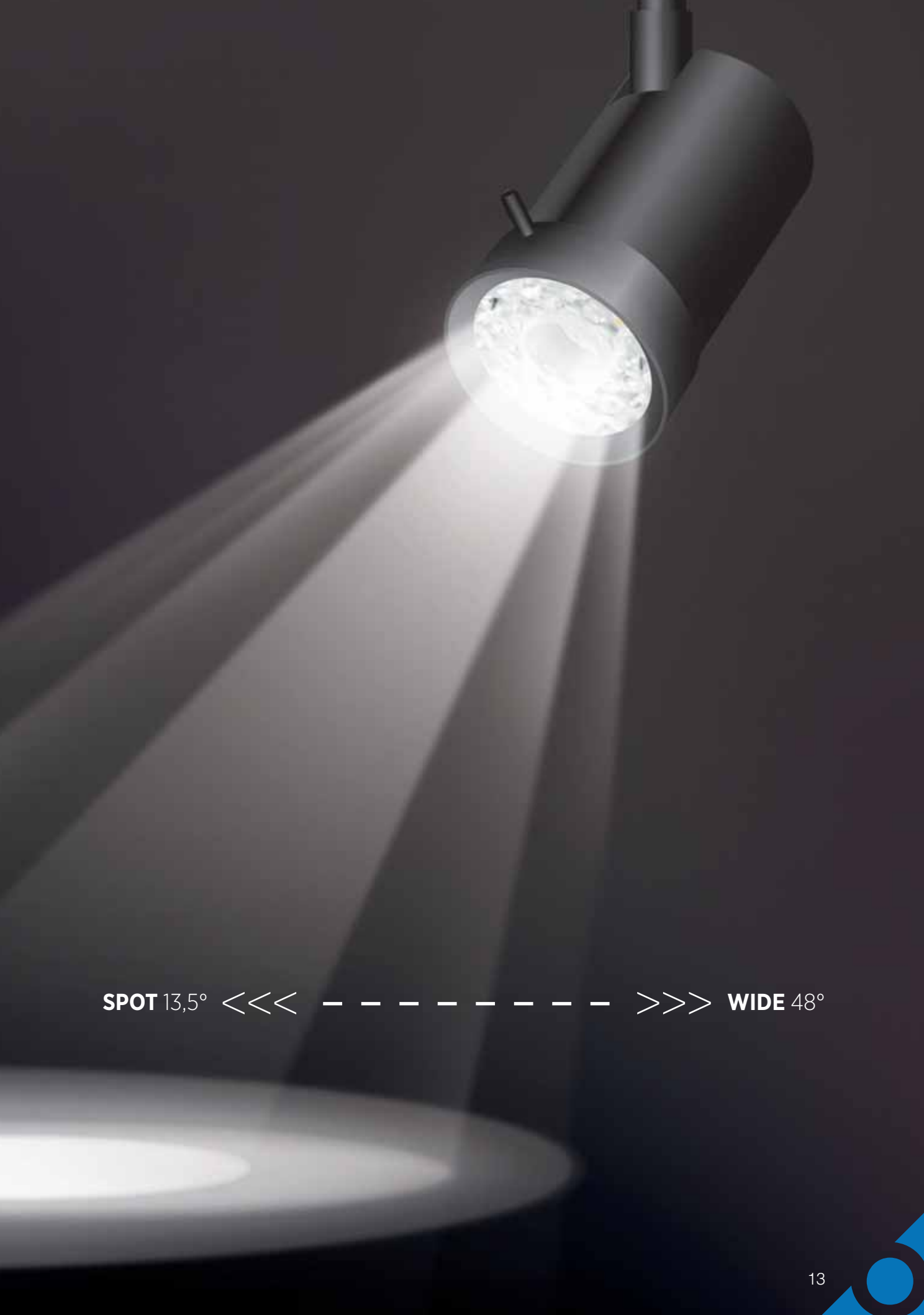
## TREDICI48

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.*

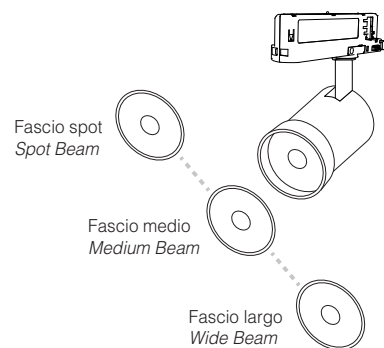
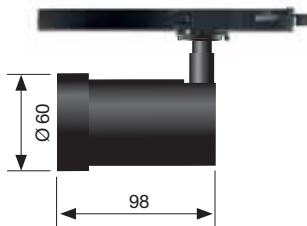


**PROIETTORI A BINARIO**  
*TRACK PROJECTORS*



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





# TREDICI48

## FASCIO REGOLABILE/ADJUSTABLE BEAM

Proiettore LED a binario orientabile con fascio regolabile.  
Adjustable track-mounted LED projector with adjustable beam.

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 CAE. 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 CAE. On request: dimmable DALI (code DL).



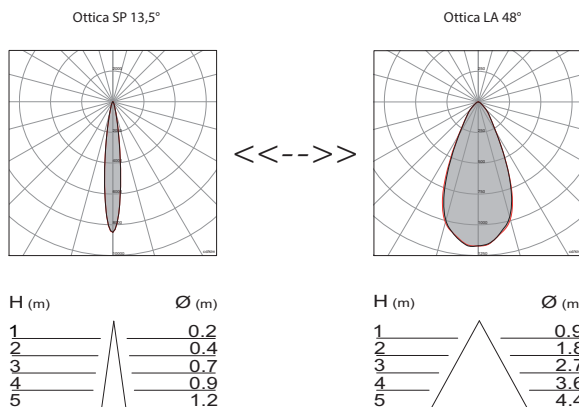
Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
1100	9	≤ 122	250	<b>HRTR481</b>	Regolabile da 13,5° a 48°  Adjustable from 13,5° to 48°	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	-: CAE elettronica electronic  <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> White Irazzo ● <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	<b>HRTR482</b>				
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%

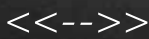
Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%



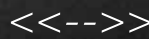




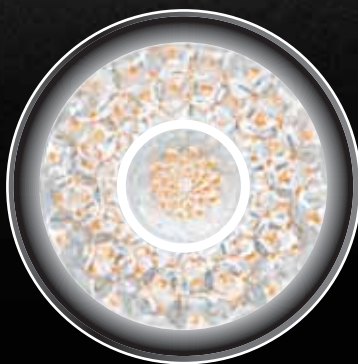
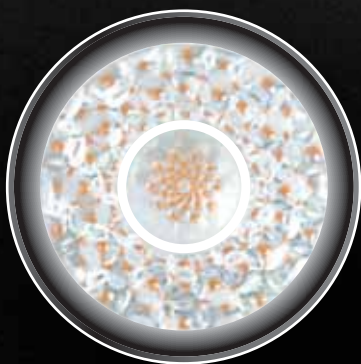
13,5°  
**FASCIO SPOT**  
*SPOT BEAM*



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



48°  
**FASCIO LARGO**  
*WIDE BEAM*





BEBA S

LERICA S

MUSE 80 S/3

MUSE 80 S/10

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.*

**PROIETTORI A BINARIO**  
*TRACK PROJECTORS*





CONOSCERE IL  
MARCHIO E PRIMA O FERO  
PIA UN PRINCIPIO DI VITA  
PRESENTI E FUTURA

DE LA  
PRECEDE

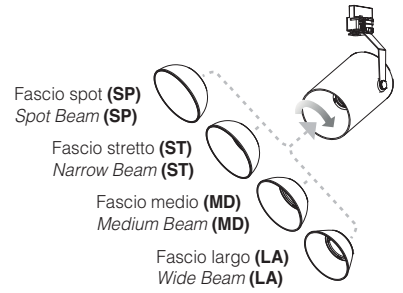
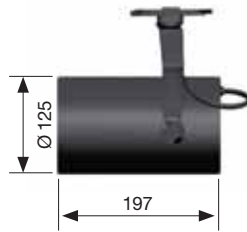
SKYLINE VIEW:  
LOGGE  
ANTIBILI  
COVERTE



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







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

# BEBA S

FASCIO/BEAM SP | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.

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 CAE. 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 CAE. On request: dimmable DALI (code DL).

**5Y WARRANTY**  
5% FAILURE RATE

**60.000 h**  
LED LIFETIME L90B10

**100.000 h**  
LED LIFETIME L70B50

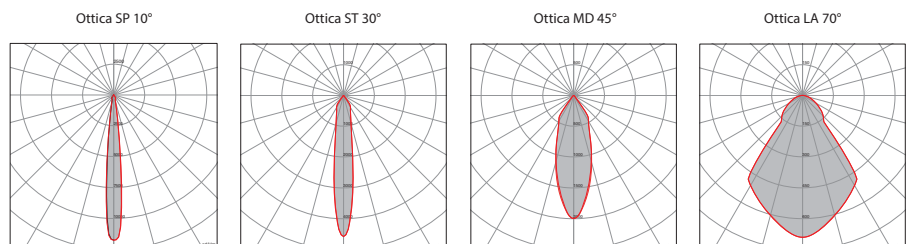
Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
2950	26	≤ 114	700	<b>HRBAS1</b>	<b>SP:</b> fascio spot spot beam	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	-: CAE elettronica electronic  <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> White 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
3350	30	≤ 112	800	<b>HRBAS2</b>	<b>ST:</b> fascio stretto narrow beam			
3800	34	≤ 111	900	<b>HRBAS3</b>	<b>MD:</b> fascio medio medium beam			
4240	40	≤ 106	1050	<b>HRBAS4</b>	<b>LA:</b> fascio largo wide beam			
4480	39	≤ 115	1050	<b>HRBAS5</b>				

CE  >90 CRI  3SDCM  IP44 EN 60529  IK 07 EN 60068  230 V 2014/250/E  50/60 Hz  850° EN 60959  RG 0 EN 62471   DL DALI  DIM W  >80 CRI  >95 CRI  VIVID PLUS  VEG PLUS  WHITE PLUS  MEAT PLUS

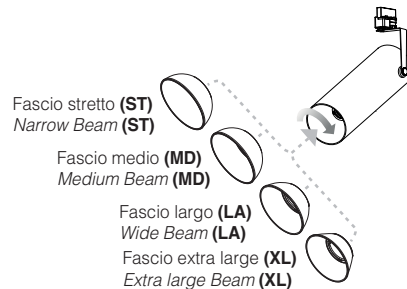
A richiesta | On request

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)	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 | ST | MD | LA | XL

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED floodlight, exchangeable optics.

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 CAE. 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 CAE. On request: dimmable DALI (code DL).

**5Y WARRANTY**  
5% FAILURE RATE

**60.000 h**  
LED LIFE TIME L70B10

**100.000 h**  
LED LIFE TIME L70B50

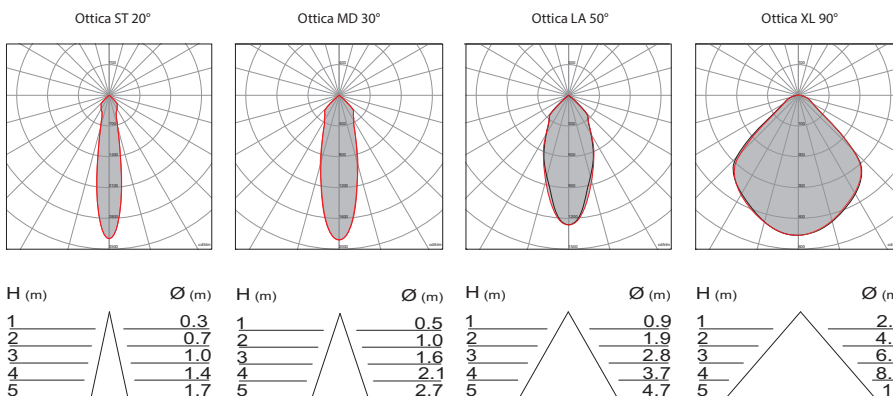
Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
2150	18	≤ 120	500	<b>HRLAS1</b>	<b>ST:</b> fascio stretto narrow beam	<b>WW:</b> 2700 <b>X:</b> 3500 <b>N:</b> 4000	-: CAE elettronica electronic  <b>DL:</b> DALI	<b>Standard:</b> ● <b>W1:</b> White Irazu ● <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
2950	26	≤ 114	700	<b>HRLAS2</b>	<b>MD:</b> fascio medio medium beam			
3350	30	≤ 112	800	<b>HRLAS3</b>	<b>LA:</b> fascio largo wide beam <b>XL:</b> fascio extra large extra large beam			

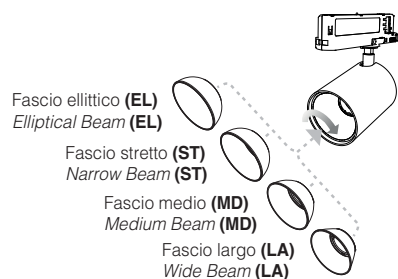
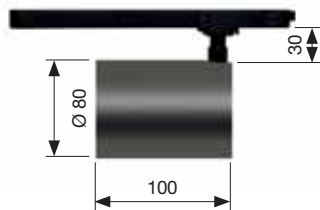
CE DL DIM W >90 CRI 3SDCM IP44 EN 60529 IK 07 EN 60068 230 V 2014/25/UE 50/60 Hz 850° EN 60695 RG 0 EN 62471 DL DALI >80 CRI >95 CRI VIVID PLUS VEG PLUS WHITE PLUS MEAT PLUS

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%





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

# MUSE 80 S/3

FASCIO/BEAM EL | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.

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 CAE. 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 CAE. On request: dimmable DALI (code DL).

**5Y WARRANTY**  
5% FAILURE RATE

**60.000 h**  
LED LIFETIME L90B10

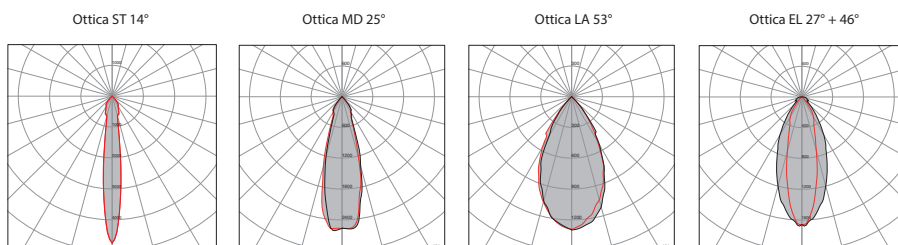
**100.000 h**  
LED LIFETIME L70B50

Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
2150	18	≤ 120	500	<b>HRM8S31</b>	<b>EL:</b> fascio ellittico elliptical beam	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	-: CAE elettronica electronic  <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
2950	26	≤ 114	700	<b>HRM8S32</b>	<b>ST:</b> fascio stretto narrow beam			
3350	30	≤ 112	800	<b>HRM8S33</b>	<b>MD:</b> fascio medio medium beam <b>LA:</b> fascio largo wide beam			

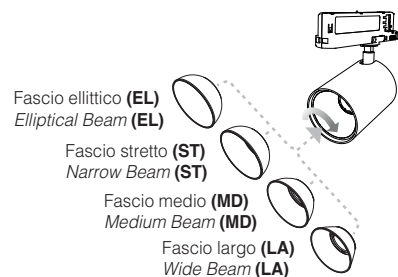
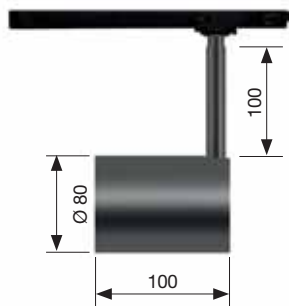
A richiesta | On request

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	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/10

FASCIO/BEAM EL | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.

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 CAE. 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 CAE. On request: dimmable DALI (code DL).



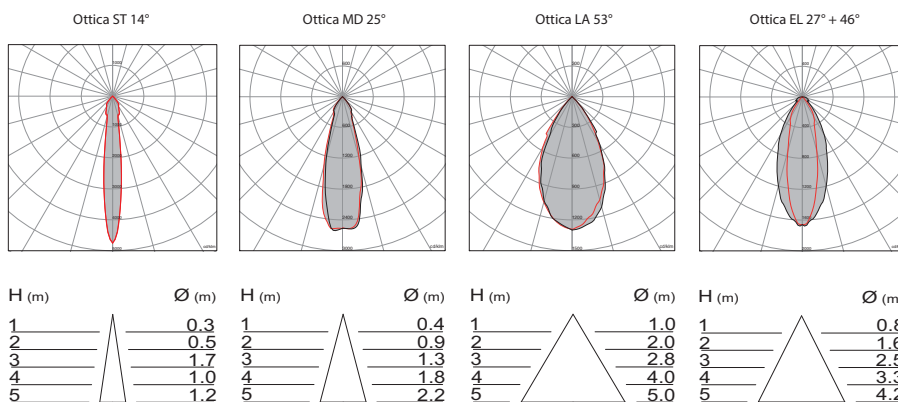
Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
2150	18	≤ 120	500	HRM8S11	EL: fascio ellittico elliptical beam	WW: 2700 W:3000 X:3500 N:4000	-: CAE elettronica electronic  DL: DALI	<b>Standard:</b> ● WI: White Irazu ● BLL: Black Lava <b>Su richiesta /On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

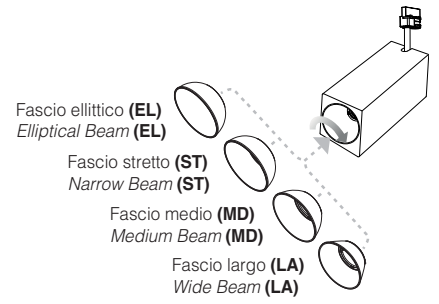


A richiesta | On request

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%





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

# VALE S

FASCIO/BEAM EL | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.

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

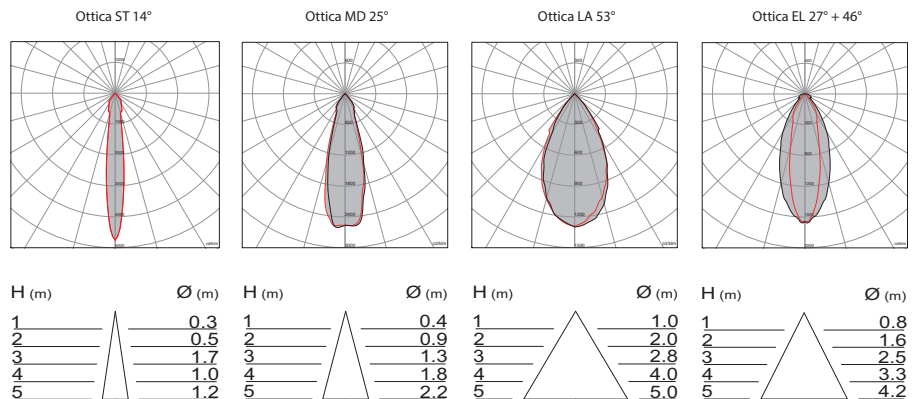
Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
2150	18	≤ 120	500	HRVAS1	EL: fascio ellittico elliptical beam	WW: 2700 W: 3000 X: 3500 N: 4000	-: CAE elettronica electronic  DL: DALI	<b>Standard:</b> ● WI: White Irazu ● BLL: Black Lava <b>Su richiesta /On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

CE
±
>90  
CRI
3SDCM
IP44  
EN 48529
IK 07  
EN 60068
230 V  
2014/25/EU
50/60  
Hz
850°  
EN 60495
RG 0  
EN 62471
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%









BEBA I

LERICA I

MUSE 80 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 projector for retail with built-in driver in the body. Lighting performance definitely higher compared the others LED fixtures in the market nowadays.*



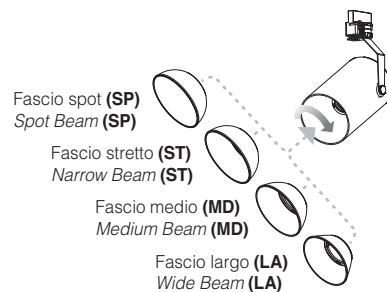
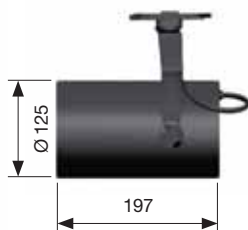
**PROIETTORI A BINARIO**  
*TRACK PROJECTORS*



NOVO PROGETTO STRAORDINARIO

*finito*





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

# BEBA I

FASCIO/BEAM SP | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.

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 CAE. 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 CAE. On request: dimmable DALI (code DL).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
2550	22	≤ 116	600	HRBAI1	SP: fascio spot spot beam	WW: 2700 W:3000 X:3500 N:4000	-: CAE elettronica electronic  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	HRBAI2	ST: fascio stretto narrow beam			
3350	30	≤ 112	800	HRBAI3	MD: fascio medio medium beam LA: fascio largo wide beam			

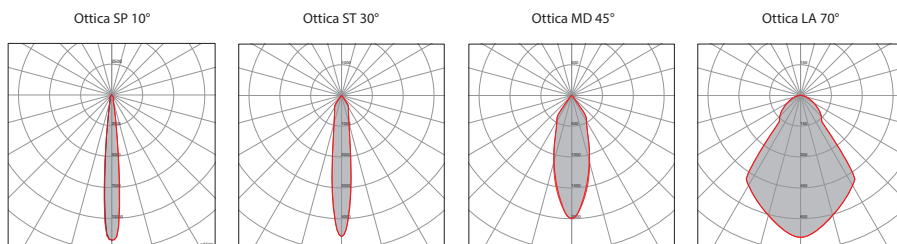


A richiesta | On request

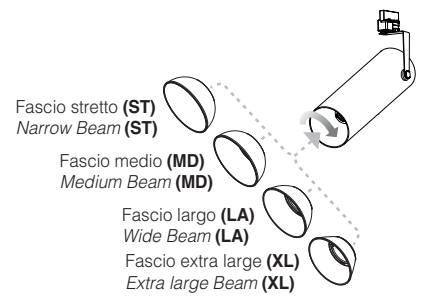
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

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	0.2	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 | ST | MD | LA | XL

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.

**5Y WARRANTY**  
5% FAILURE RATE

**60.000 h**  
LED LIFETIME L90B10

**100.000 h**  
LED LIFETIME L70B50

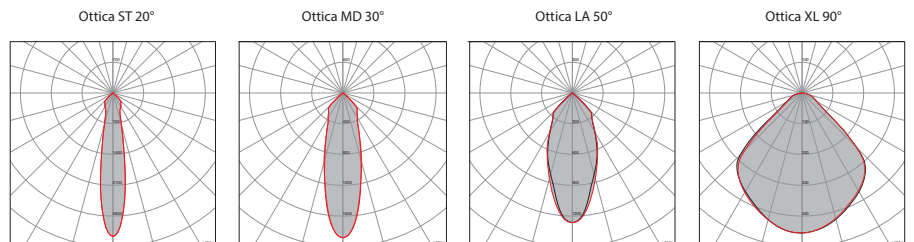
Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
2150	18	≤ 120	500	<b>HRLAI1</b>	<b>ST:</b> fascio stretto narrow beam	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	-: CAE elettronica electronic  <b>DL:</b> DALI	<b>Standard:</b>
2950	26	≤ 114	700	<b>HRLAI2</b>	<b>MD:</b> fascio medio medium beam			● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava
3350	30	≤ 112	800	<b>HRLAI3</b>	<b>LA:</b> fascio largo wide beam			<b>Su richiesta /On request:</b>
					<b>XL:</b> fascio extra large extra large beam			● <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

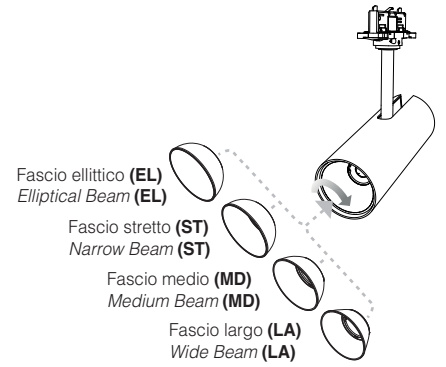
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

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%

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 EL | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
Adjustable track-mounted LED projector, exchangeable optics.



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 CAE. 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 CAE. On request: dimmable DALI (code DL).

Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
2150	18	≤ 120	500	HRM8I1	<b>EL:</b> fascio ellittico elliptical beam	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	-: CAE elettronica electronic  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	HRM8I2	<b>ST:</b> fascio stretto narrow beam			
2950	26	≤ 112	700	HRM8I3	<b>MD:</b> fascio medio medium beam  <b>LA:</b> fascio largo wide beam			

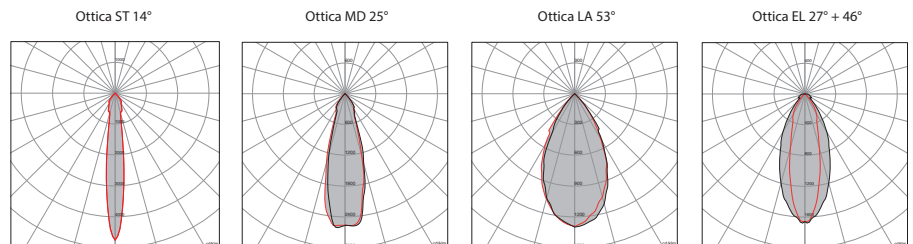


A richiesta | On request

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%

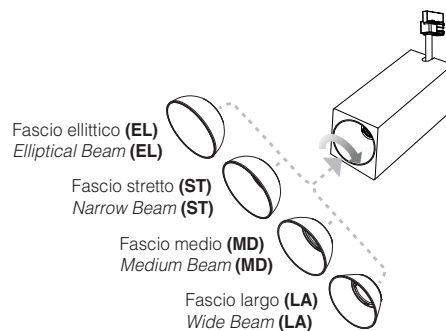
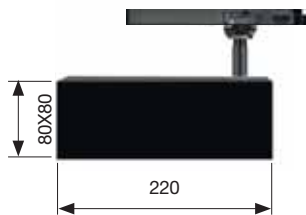
Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

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





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

# VALE I

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

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.

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 CAE. 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 CAE. On request: dimmable DALI (code DL).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
2150	18	≤ 120	500	HRVAI1	EL: fascio ellittico elliptical beam ST: fascio stretto narrow beam	WW: 2700 W:3000 X:3500 N:4000	-: CAE elettronica electronic 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
2550	22	≤ 114	600	HRVAI2	MD: fascio medio medium beam			
2950	26	≤ 112	700	HRVAI3	LA: fascio largo wide beam			

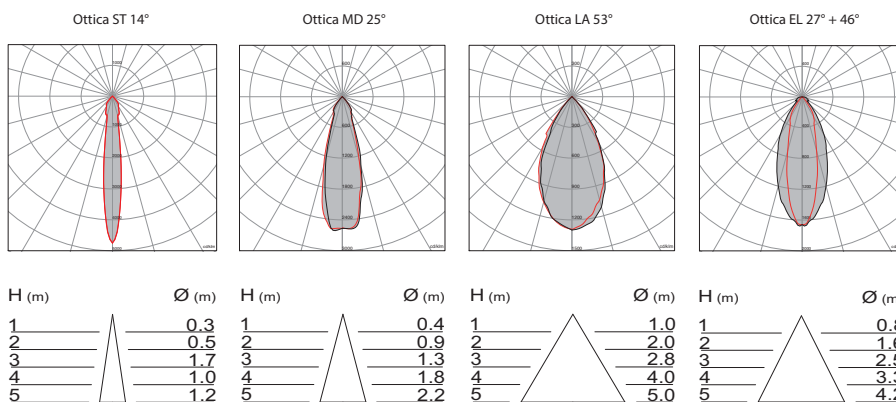


A richiesta | On request

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





MUSE 50 S/10

MUSE 50 S/3

MUSE 50 I

MUSE 54 PS/10

MUSE 54 PS/3

MUSE 55 S/10

MUSE 55 S/3

MUSE 55 LENS S/10

MUSE 55 LENS S/3

MUSE 55 LENS IN

MUSE 55 LENS UP



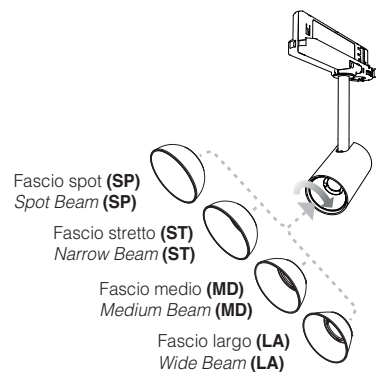
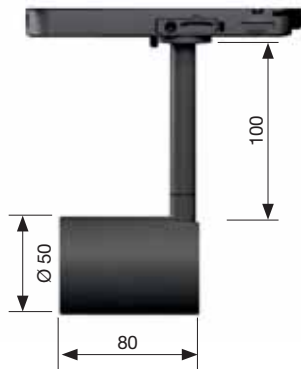
Proiettori LED per il retail.  
Performance illuminotecniche nettamente  
superiori all'attuale generazione di lampade LED.

*LED lighting for retail.  
Lighting performance definitely higher  
compared to the others LED fixtures in the  
market nowadays.*

**PROIETTORI A BINARIO**  
*TRACK PROJECTORS*







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

# MUSE 50 S/10

FASCIO/BEAM SP | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.

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 CAE. 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 CAE. On request: dimmable DALI (code DL).



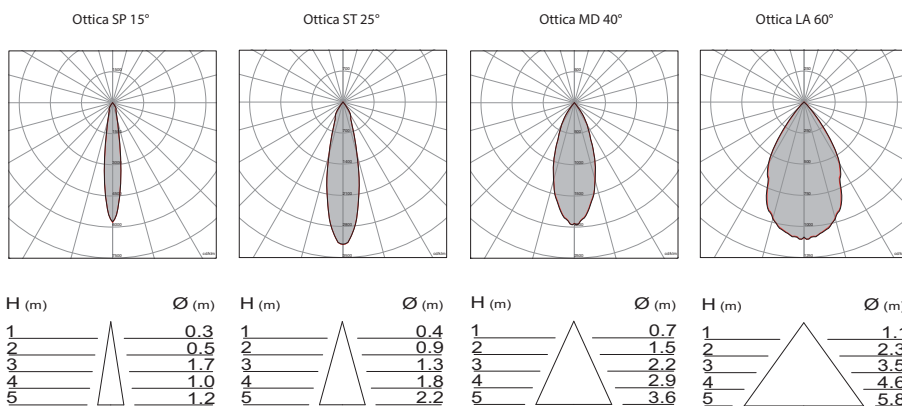
Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
890	7	≤ 127	200	HRM5S11	<b>SP:</b> fascio spot spot beam	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	-: CAE elettronica electronic  <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <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	HRM5S12	<b>ST:</b> fascio stretto narrow beam			
1550	13	≤ 119	350	HRM5S13	<b>MD:</b> fascio medio medium beam			
2150	18,5	≤ 116	500	HRM5S14	<b>LA:</b> fascio largo wide beam			

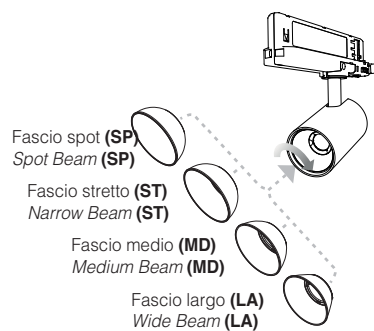
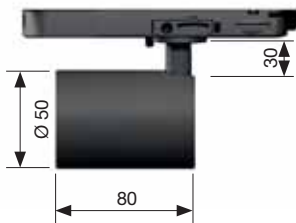


A richiesta | On request

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%





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

# MUSE 50 S/3

FASCIO/BEAM SP | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.

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 CAE. 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 CAE. On request: dimmable DALI (code DL).

**5Y WARRANTY**  
5% FAILURE RATE

**60.000 h**  
LED LIFETIME L90B10

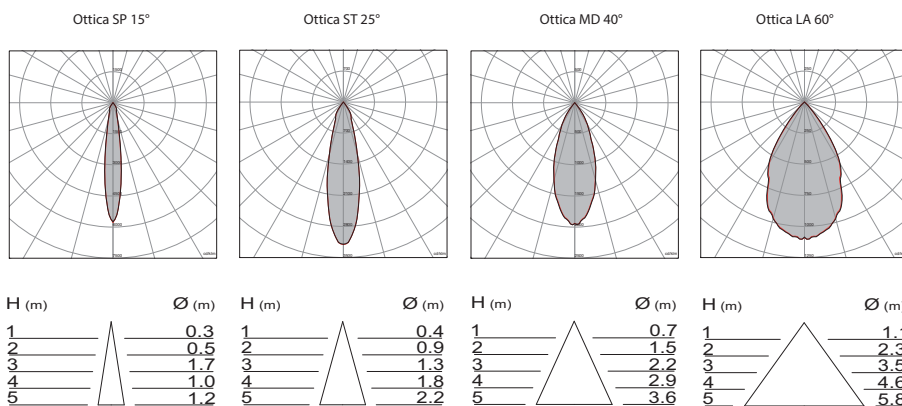
**100.000 h**  
LED LIFETIME L70B50

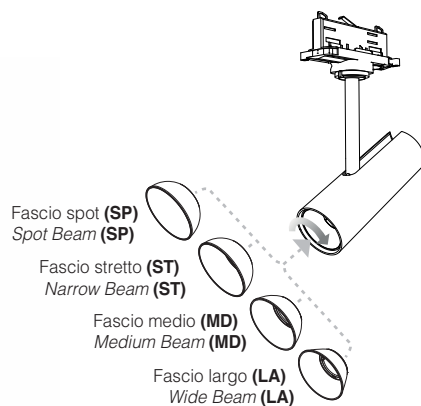
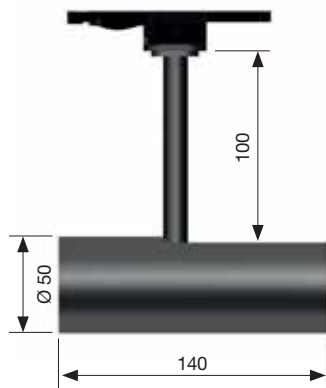
Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
890	7	≤ 127	200	<b>HRM5S31</b>	<b>SP:</b> fascio spot spot beam	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	--: CAE elettronica electronic  <b>DL:</b> DALI	<b>Standard:</b> ● <b>W1:</b> White 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>HRM5S32</b>	<b>ST:</b> fascio stretto narrow beam			
1550	13	≤ 119	350	<b>HRM5S33</b>	<b>MD:</b> fascio medio medium beam			
2150	18,5	≤ 116	500	<b>HRM5S34</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%





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

# MUSE 50 I

FASCIO/BEAM SP | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.

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 CAE. 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 CAE. On request: dimmable DALI (code DL).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
890	7	≤ 127	200	HRM5I1	SP: fascio spot spot beam	WW: 2700 W:3000 X:3500 N:4000	-: CAE elettronica electronic  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	HRM5I2	ST: fascio stretto narrow beam			
1550	13	≤ 119	350	HRM5I3	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

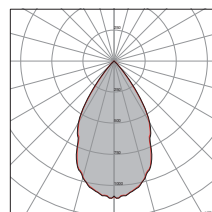
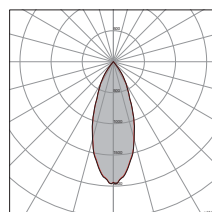
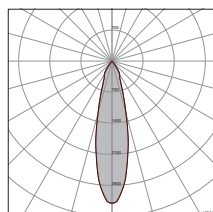
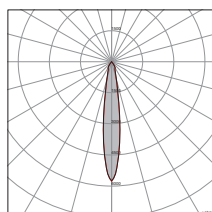


Ottica SP 15°

Ottica ST 25°

Ottica MD 40°

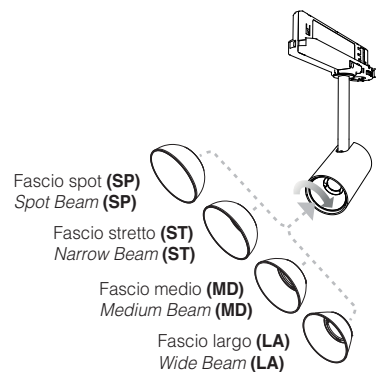
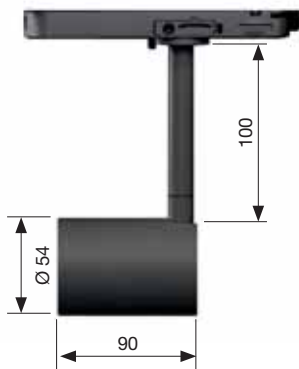
Ottica LA 60°



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/10

FASCIO/BEAM SP | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
Adjustable track-mounted LED projector, exchangeable optics.

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 CAE. 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 CAE. On request: dimmable DALI (code DL).



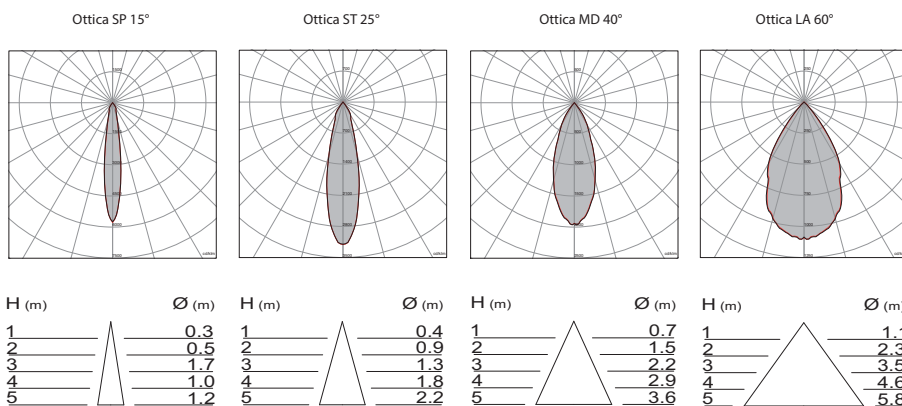
Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
1100	9	≤ 122	250	HRM5P11	SP: fascio spot spot beam	WW: 2700 W:3000 X:3500 N:4000	-: CAE elettronica electronic  DL: DALI	<b>Standard:</b> ● WI: White Irazzu ● BLL: Black Lava <b>Su richiesta /On request:</b> ● 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			
2950	26	≤ 114	700	HRM5P14	LA: fascio largo wide beam			

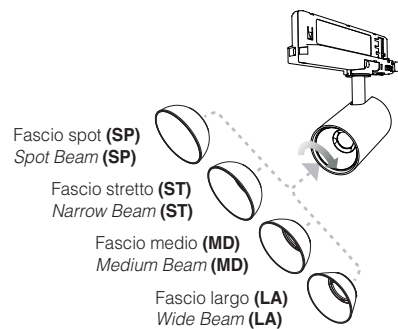
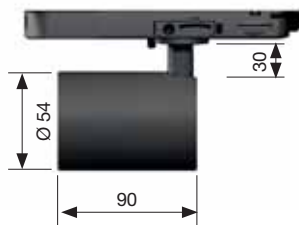


A richiesta | On request

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%





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

# MUSE 54 PS/3

FASCIO/BEAM SP | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
 Adjustable track-mounted LED projector, exchangeable optics.

Corpo in estruso d'alluminio lavorato dal pieno con funzione di dissipatore 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 CAE. 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 CAE. On request: dimmable DALI (code DL).

**5Y WARRANTY**  
5% FAILURE RATE

**60.000 h**  
LED LIFETIME L70B10

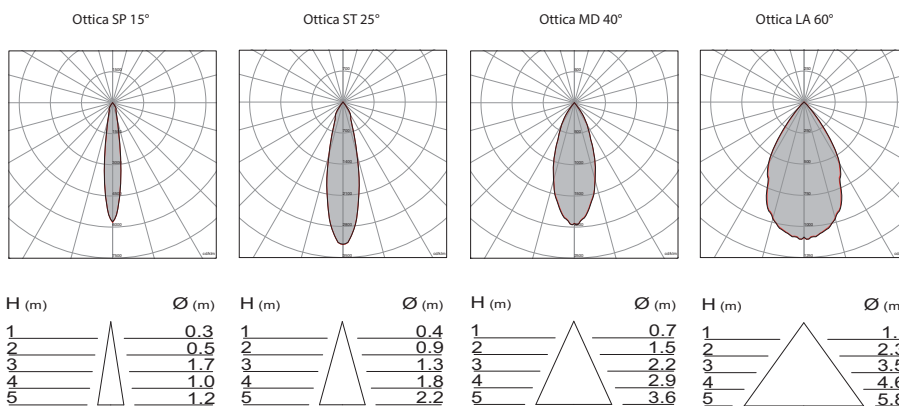
**100.000 h**  
LED LIFETIME L70B50

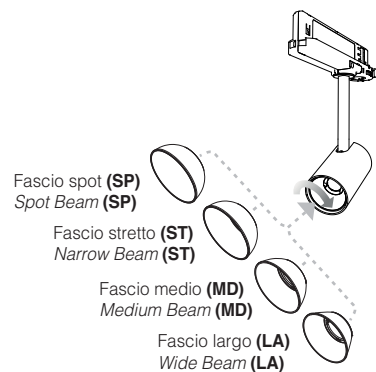
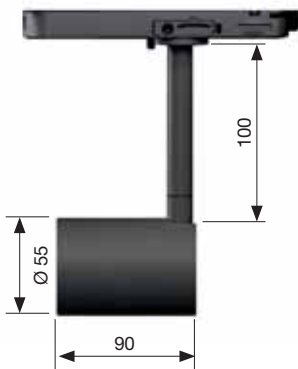
Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
1100	9	≤ 112	250	<b>HRM5P31</b>	<b>SP:</b> fascio spot spot beam	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	<b>-:</b> CAE elettronica electronic <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</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>HRM5P32</b>	<b>ST:</b> fascio stretto narrow beam			
2150	18,5	≤ 116	500	<b>HRM5P33</b>	<b>MD:</b> fascio medio medium beam			
2950	26	≤ 114	700	<b>HRM5P34</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%





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

# MUSE 55 S/10

FASCIO/BEAM SP | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
Adjustable track-mounted LED projector, exchangeable optics.

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 CAE. 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 CAE. On request: dimmable DALI (code DL).



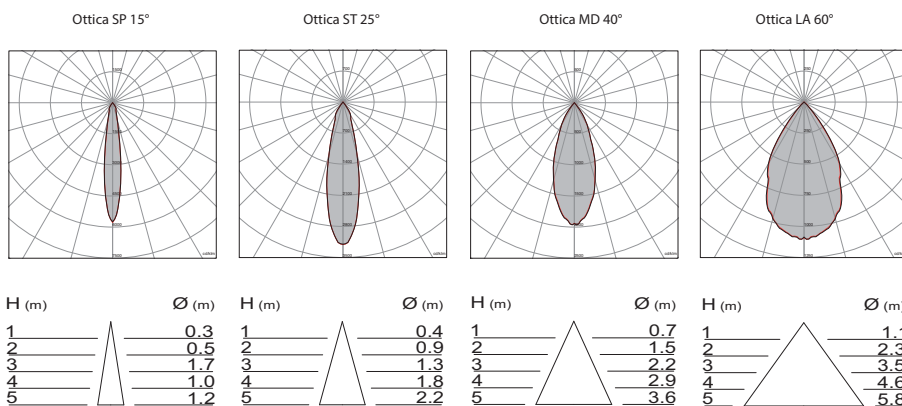
Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
1100	9	≤ 122	250	HRM6S11	SP: fascio spot spot beam	WW: 2700 W:3000 X:3500 N:4000	-: CAE elettronica electronic  DL: DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava  <b>Su richiesta /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	HRM6S12	ST: fascio stretto narrow beam			
2150	18,5	≤ 116	500	HRM6S13	MD: fascio medio medium beam LA: fascio largo wide beam			



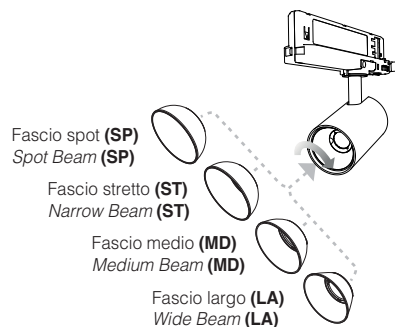
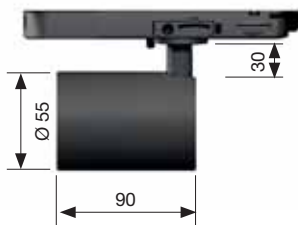
A richiesta | On request

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%







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

# MUSE 55 S/3

FASCIO/BEAM SP | ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
Adjustable track-mounted LED projector, exchangeable optics.

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) spot beam (cod. SP). Sorgente luminosa LED. Emissione diretta. Sistema di fissaggio a binario con alimentazione integrata nell'adattatore CAE. 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 CAE. On request: dimmable DALI (code DL).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
1100	9	≤ 122	250	<b>HRM6S31</b>	<b>SP:</b> fascio spot spot beam	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	-: CAE elettronica electronic  <b>DL:</b> 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>BR:</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>HRM6S32</b>	<b>ST:</b> fascio stretto narrow beam			
2150	18,5	≤ 116	500	<b>HRM6S33</b>	<b>MD:</b> fascio medio medium beam <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%

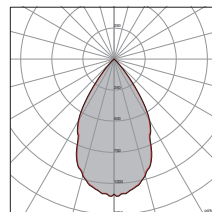
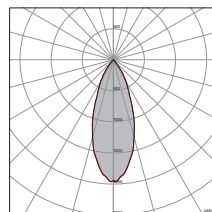
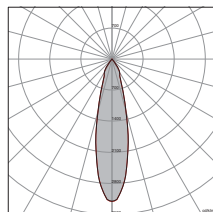
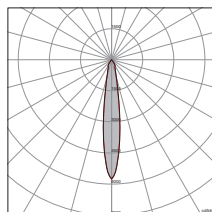
Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90.  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

Ottica SP 15°

Ottica ST 25°

Ottica MD 40°

Ottica LA 60°

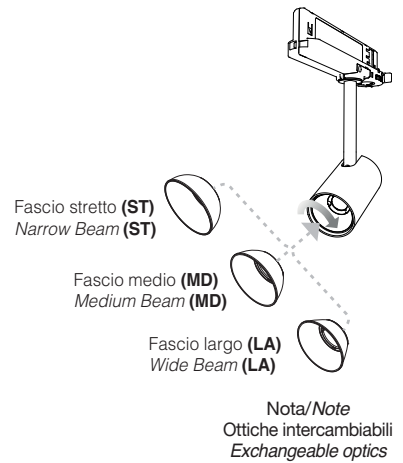
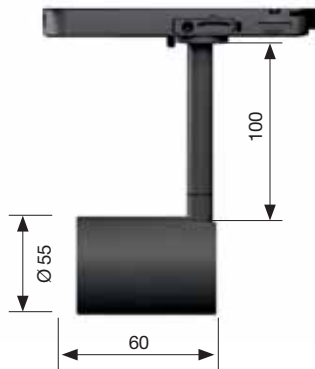


H (m)	Ø (m)
1	0.3
2	0.5
3	1.7
4	1.0
5	1.2

H (m)	Ø (m)
1	0.4
2	0.9
3	1.3
4	1.8
5	2.2

H (m)	Ø (m)
1	0.7
2	1.5
3	2.2
4	2.9
5	3.6

H (m)	Ø (m)
1	1.1
2	2.3
3	3.5
4	4.6
5	5.8



# MUSE 55 LENS S/10

FASCIO/BEAM ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
Adjustable track-mounted LED projector, exchangeable optics.

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 CAE. 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 CAE. On request: dimmable DALI (code DL).

**5Y WARRANTY**  
5% FAILURE RATE

**60.000 h**  
LED LIFETIME L90B10

**100.000 h**  
LED LIFETIME L70B50

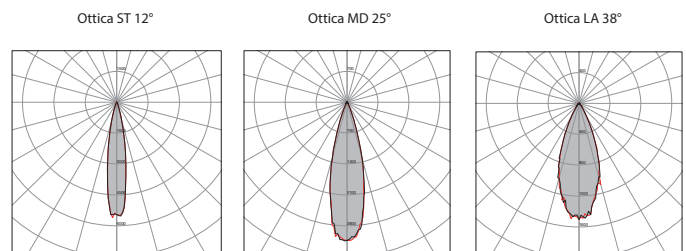
Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
1100	9	≤ 122	250	<b>HRM6L11</b>	<b>ST:</b> fascio stretto narrow beam	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	-.: CAE elettronica electronic <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> 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>HRM6L12</b>	<b>MD:</b> fascio medio medium beam			
2150	18,5	≤ 116	500	<b>HRM6L13</b>	<b>LA:</b> fascio largo wide beam			

CE
IP44
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

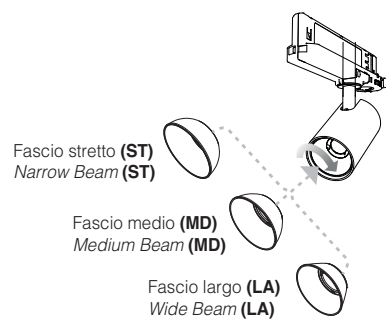
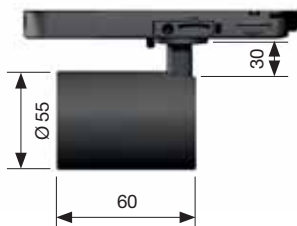
A richiesta | On request

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



Nota/Note  
Ottiche intercambiabili  
Exchangeable optics

# MUSE 55 LENS S/3

FASCIO/BEAM ST | MD | LA

Proiettore LED a binario orientabile con ottiche intercambiabili.  
Adjustable track-mounted LED projector, exchangeable optics.

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 CAE. 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 CAE. On request: dimmable DALI (code DL).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
1100	9	≤ 122	250	HRM6L31	<b>ST:</b> fascio stretto narrow beam	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	-: CAE elettronica electronic  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	HRM6L32	<b>MD:</b> fascio medio medium beam			
2150	18,5	≤ 116	500	HRM6L33	<b>LA:</b> fascio largo wide beam			



A richiesta | On request

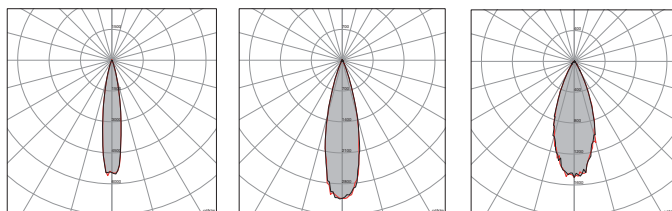
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90.  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

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%

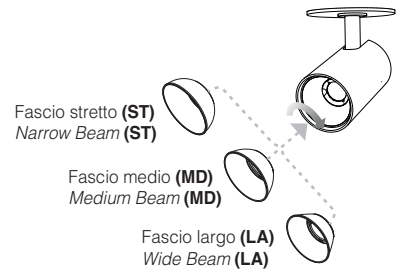
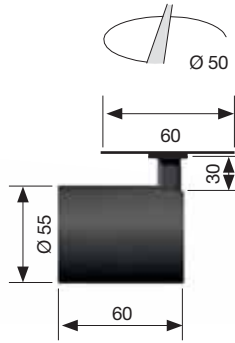
Ottica ST 12°

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 IN

FASCIO/BEAM ST | MD | LA

Proiettore LED orientabile con ottiche intercambiabili.  
Fissaggio in controsoffitto.  
Adjustable LED projector with exchangeable optics.  
False ceiling mounting system.

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 CAE. 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 CAE. On request: dimmable DALI (code DL).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
1100	9	≤ 122	250	HRM6LI1	<b>ST:</b> fascio stretto narrow beam	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	<b>--:</b> CAE elettronica electronic  <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			

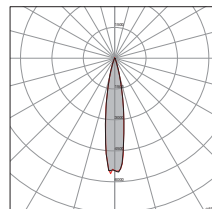


A richiesta | On request

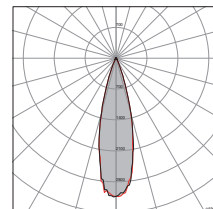
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

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%

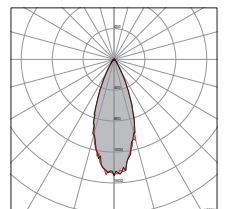
Ottica ST 12°



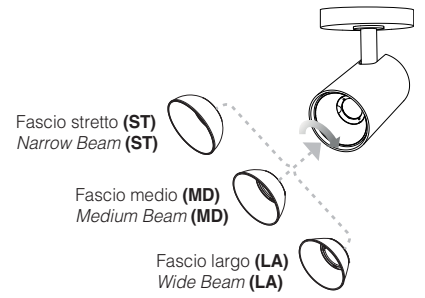
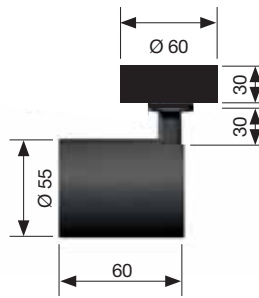
Ottica MD 25°



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 ST | MD | LA

Proiettore LED orientabile con ottiche intercambiabili.  
 Fissaggio a plafone.  
 Adjustable LED projector with exchangeable optics.  
 Ceiling mounting system.

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 CAE. 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 CAE. On request: dimmable DALI (code DL). External driver.

**5Y WARRANTY**  
5% FAILURE RATE

**60.000 h**  
LED LIFETIME L90B10

**100.000 h**  
LED LIFETIME L70B50

Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
1100	9	≤ 122	250	HRM6UP1	<b>ST:</b> fascio stretto narrow beam	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	<b>-:</b> CAE elettronica electronic <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	HRM6UP2	<b>MD:</b> fascio medio medium beam			
2150	18,5	≤ 116	500	HRM6UP3	<b>LA:</b> fascio largo wide beam			

A richiesta | On request

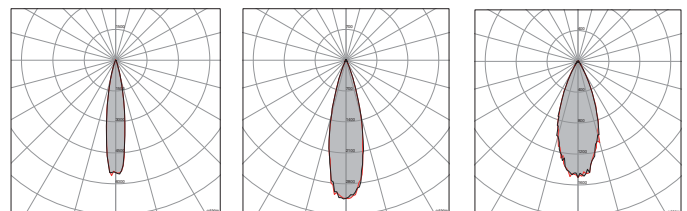
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

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



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.*

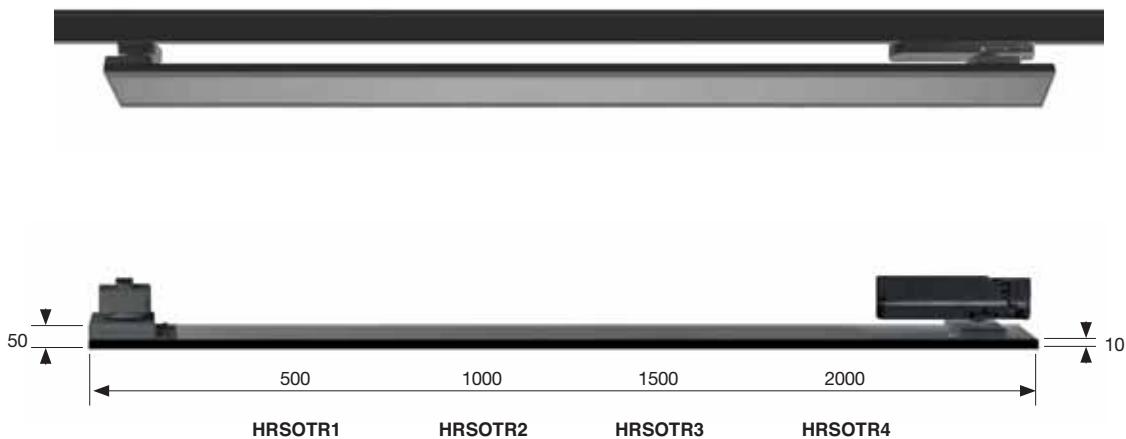
*Lighting performance clearly superior to the current generation of LED lighting fittings.*



**SISTEMA LINEARE A BINARIO**  
*TRACK LINEAR SYSTEM*







# SOO TRACK


SCHERMO/DIFFUSER OP | MP

Sistema lineare a binario.  
Track linear system

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 CAE. 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 CAE. On request: dimmable DALI (code DL).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	Schermo Diffuser	K	Alimentazione Power Supply	Colore Colour
1900	13	≤ 146	700	HRSOTR1	<b>OP:</b> opale opal  <b>MP:</b> microprismato microprismatic  	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	<b>-:</b> CAE elettronica electronic  <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				



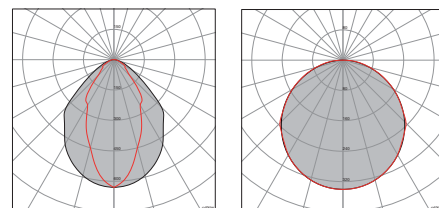
A richiesta | On request

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%

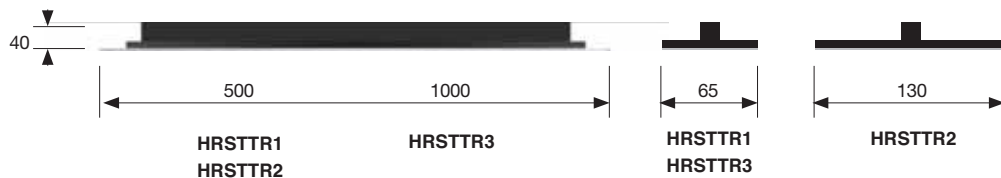
Ottica MP 50°

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 MD | LA | BT

Sistema lineare a binario.  
Track linear system

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 CAE. 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). LED light source. Direct light emission. Track mounting system (adapter included). Built-in electronic driver in the body CAE. On request: dimmable DALI (code DL).*



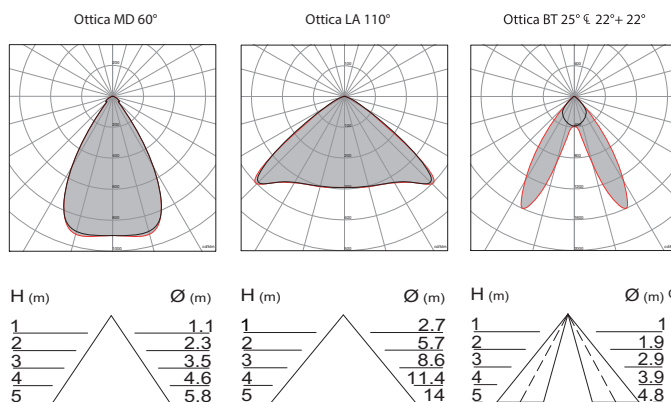
Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
3160	26,5	≤ 119	700	HRSTTR1	<b>MD:</b> fascio medio medium beam	WW: 2700 W:3000 X:3500 N:4000	-: CAE elettronica electronic  DL: DALI	<b>Standard:</b> ● <b>W1:</b> White Irazu ● <b>BLL:</b> Black Lava  <b>Su 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
6320	53	≤ 119	700	HRSTTR2	<b>LA:</b> fascio largo wide beam			
6320	53	≤ 119	700	HRSTTR3	<b>BT:</b> fascio doppio asimmetrico Asymmetric batwing beam			

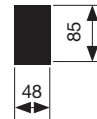
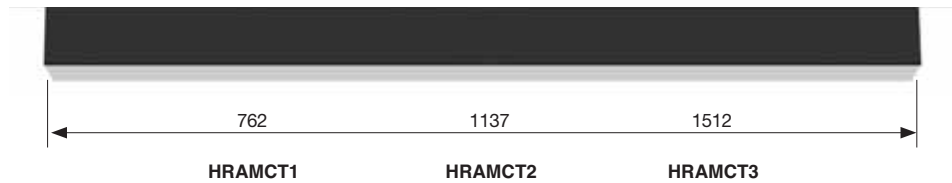
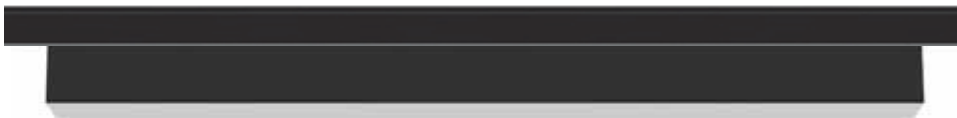


A richiesta | On request

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%





# MINI ALGEBRA TRACK


SCHERMO/DIFFUSER OP | MP

Sistema lineare a binario.  
Track linear system

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 nell'adattatore CAE. 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 with built-in electronic driver CAE. On request: dimmable DALI (code DL).*



Lumen	Watt	Lumen Watt Out	mA	Codice Code	Schermo Diffuser	K	Alimentazione Power Supply	Colore Colour
1540	18	≤ 110	500	<b>HRAMCT1</b>	OP: opale opal MP: microprismato microprismatic	<b>WW: 2700</b> <b>W: 3000</b> <b>X: 3500</b> <b>N: 4000</b>	-: CAE elettronica electronic  DL: DALI	<b>Standard:</b> <span style="color: grey;">●</span> <b>WI:</b> White Irazu <span style="color: black;">●</span> <b>BLL:</b> Black Lava <b>Su richiesta / On request:</b> <span style="color: grey;">●</span> <b>SB:</b> Silver Bombalai <span style="color: brown;">●</span> <b>BL:</b> Bronze Lario <span style="color: brown;">●</span> <b>RR:</b> Rust Rame <span style="color: gold;">●</span> <b>BF:</b> Beige Futura <span style="color: gold;">●</span> <b>GK:</b> Gold Karkar <span style="color: blue;">●</span> <b>BT:</b> Blue Telica
2310	27	≤ 110	700	<b>HRAMCT2</b>				
3080	28	≤ 110	800	<b>HRAMCT3</b>				



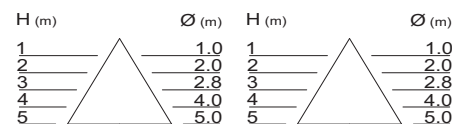
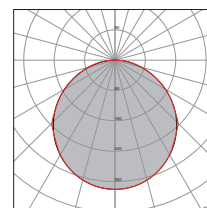
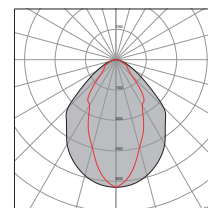
A richiesta | On request

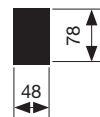
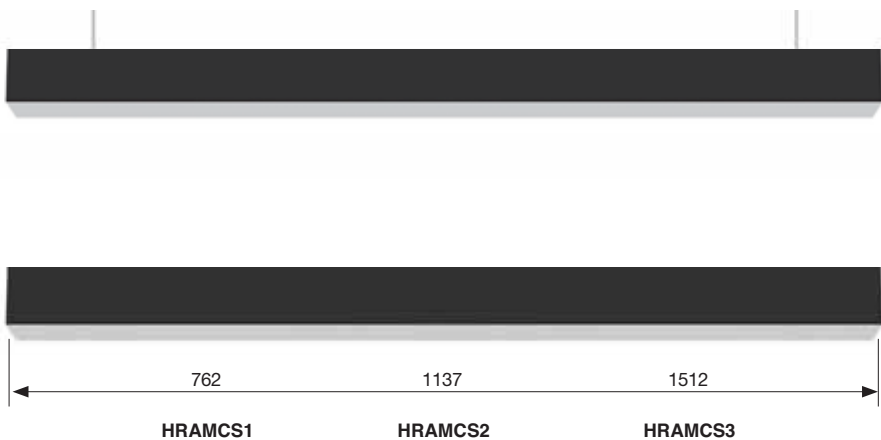
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90.  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

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 OP | MP

Apparecchio LED a sospensione/plafone  
Suspension/ceiling LED lighting fixture

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 CAE. 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 CAE. On request: dimmable DALI (code DL). Emergency autonomy 1h/3h.*



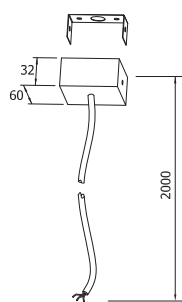
Lumen	Watt	Lumen Watt Out	mA	Codice Code	Schermo Diffuser	K	Alimentazione Power Supply	Colore Colour
1540	14	≤ 110	500	<b>HRAMCS1</b>	<b>OP:</b> opale opal	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	-. CAE elettronica electronic	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BL:</b> 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
2310	21	≤ 110	700	<b>HRAMCS2</b>	<b>MP:</b> microprismato microprismatic		<b>DL:</b> DALI	
3080	28	≤ 110	800	<b>HRAMCS3</b>				



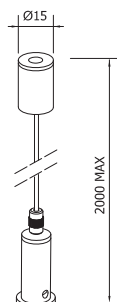
A richiesta | On request

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%



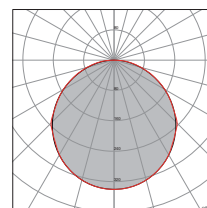
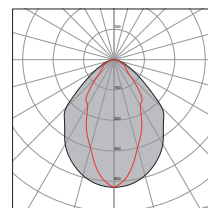
Kit rosone elettrificato completo di cavo trasparente L=2000 mm 3x0,75 mm<sup>2</sup>, per soluzioni CAE  
**Codice KT10206**  
5x0,75 mm<sup>2</sup>, per soluzioni DALI  
**Codice KT10206/D**  
  
Electrified ceiling rose complete with transparent cable L=2000 mm 3x0,75 mm<sup>2</sup>, for CAE version  
**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  
**Code KT10420**

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



ZETA MAXI

ZETA IN

ZETA

ZETA LENS

ZETA MINI

UNO

UNO LENS

RUMBA

SII

ENNE

SPECCHIO

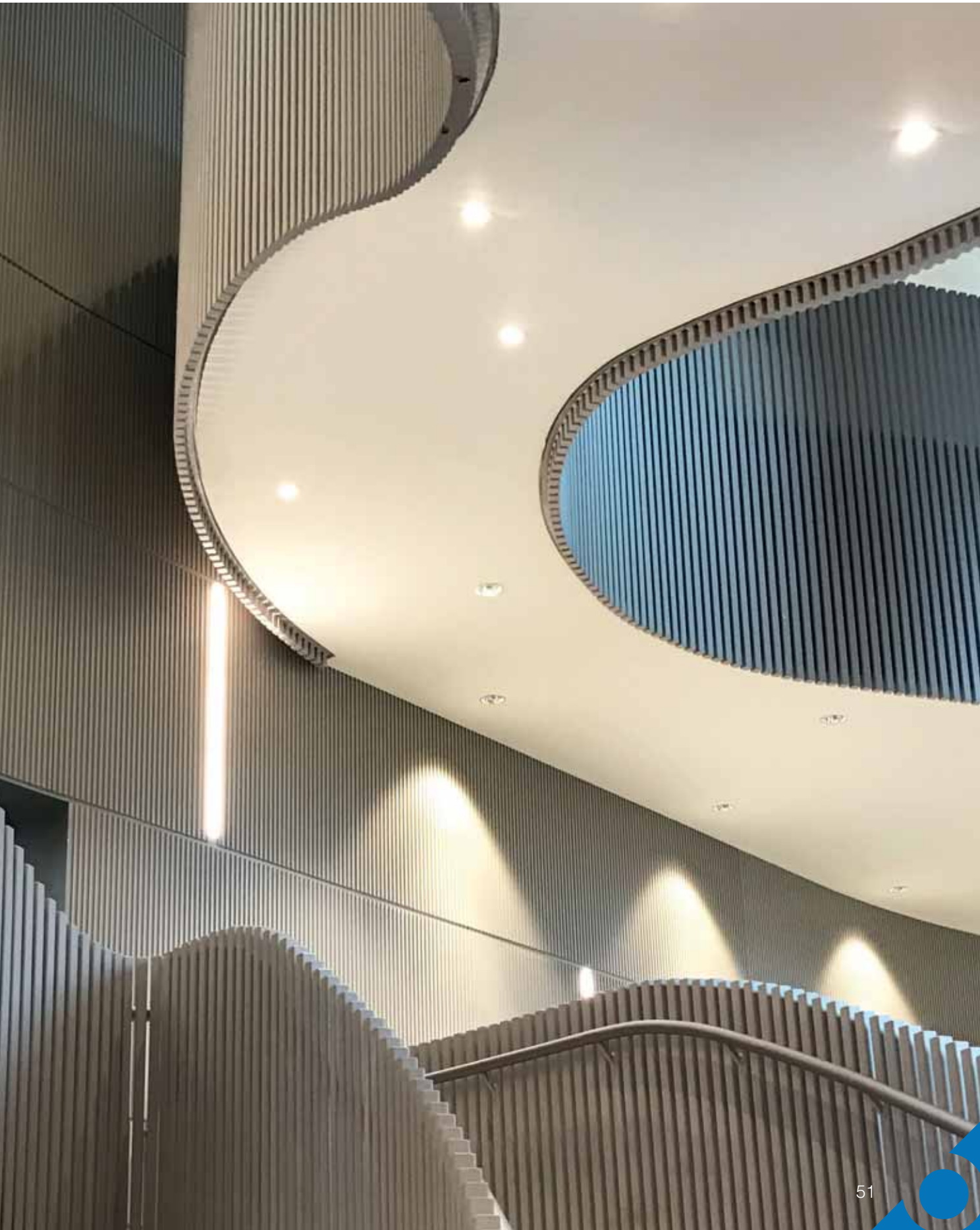
CENTOTTANTA

Apparecchi LED da incasso per il retail.

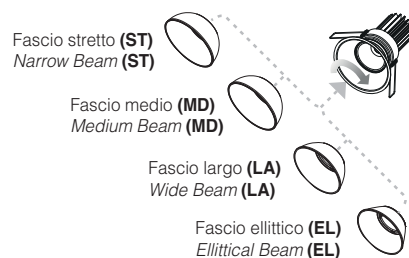
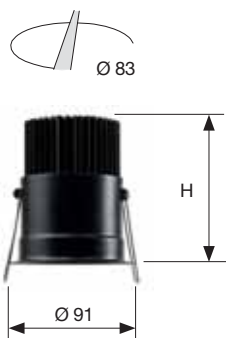
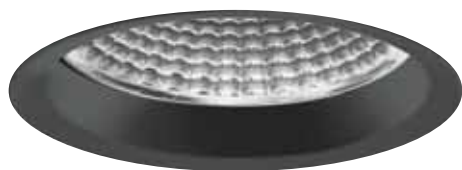
*Recessed LED downlights for retail.*

**INCASSI DOWNLIGHT**  
*RECESSED DOWNLIGHTS*









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 ST | MD | LA | EL

Apparecchio LED da incasso con ottiche intercambiabili.  
 Recessed LED downlight with exchangeable optics.

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 CAE. 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 CAE. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.



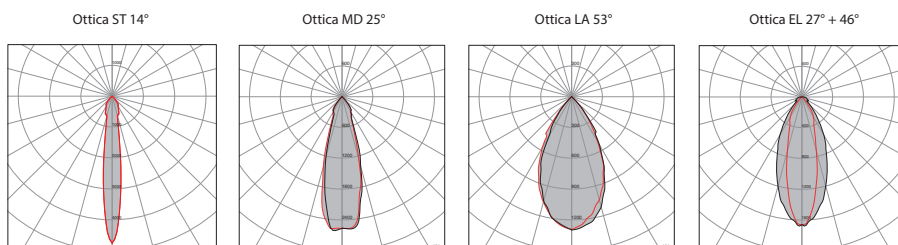
Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
1570	13	≤ 121	350	HRZMX1	<b>ST:</b> fascio stretto narrow beam	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	<b>-:</b> CAE elettronica electronic <b>DL:</b> DALI <b>PD:</b> PUSH DIM	<b>Standard:</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
2150	18	≤ 120	500	HRZMX2	<b>MD:</b> fascio medio medium beam			
2550	22	≤ 116	600	HRZMX3	<b>LA:</b> fascio largo wide beam			
2950	26	≤ 114	700	HRZMX4	<b>EL:</b> fascio ellittico elliptical beam			
3350	30	≤ 112	800	HRZMX5				



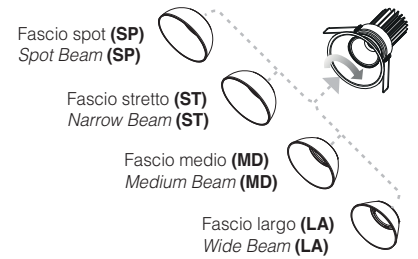
A richiesta | On request

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 SP | ST | MD | LA

Apparecchio LED da incasso con ottiche intercambiabili.  
Recessed LED downlight with exchangeable optics.



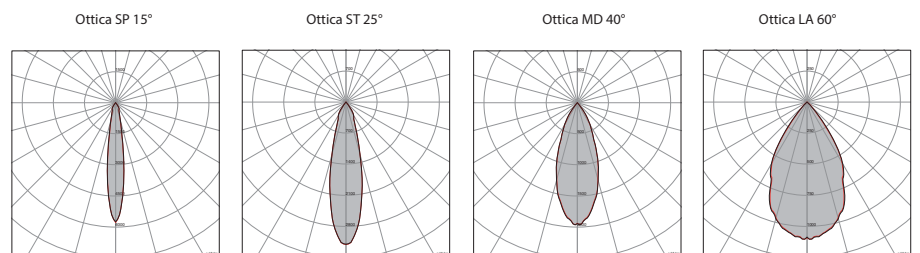
Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
890	7	≤ 127	200	HRZI1	<b>SP:</b> fascio spot spot beam	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	-: CAE elettronica electronic  <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <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	HRZI2	<b>ST:</b> fascio stretto narrow beam			
1570	13	≤ 121	350	HRZI3	<b>MD:</b> fascio medio medium beam			
2150	18	≤ 120	500	HRZI4	<b>LA:</b> fascio largo wide beam			



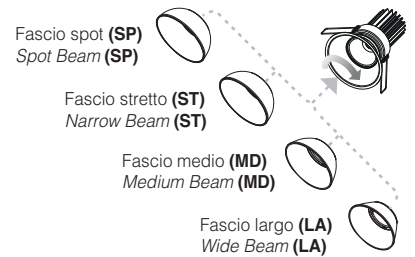
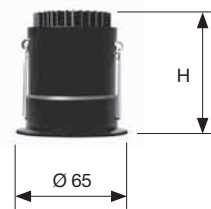
A richiesta | On request

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 senza ausilio di utensili  
 Exchangeable optics without using of tools

H 75 = 200 mA  
 H 75 = 250 mA  
 H 105 = 350 mA  
 H 135 = 500 mA

# ZETA

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

Apparecchio LED da incasso con ottiche intercambiabili.  
 Recessed LED downlight with exchangeable optics.

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 CAE. 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 CAE. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD).

**5Y WARRANTY**  
5% FAILURE RATE

**60.000 h**  
LED LIFETIME L90B10

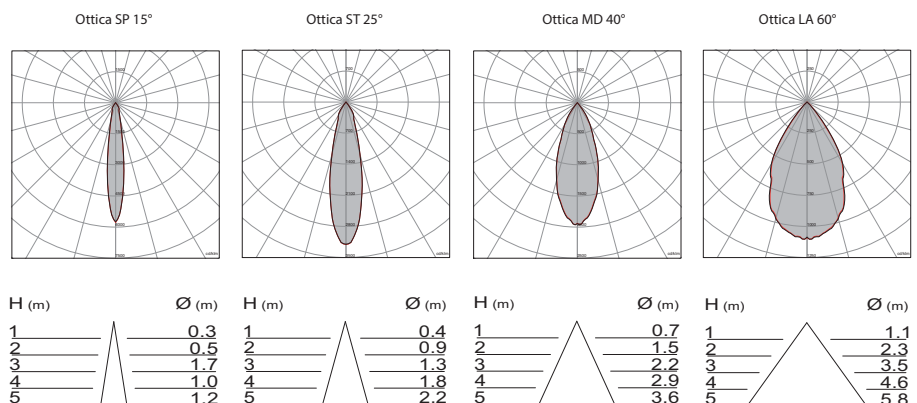
**100.000 h**  
LED LIFETIME L70B50

Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
890	7	≤ 127	200	HRZ1	<b>SP:</b> fascio spot spot beam	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	-: CAE elettronica electronic  <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
1100	9	≤ 122	250	HRZ2	<b>ST:</b> fascio stretto narrow beam			
1570	13	≤ 129	350	HRZ3	<b>MD:</b> fascio medio medium beam			
2150	18	≤ 120	500	HRZ4	<b>LA:</b> fascio largo wide beam			

A richiesta | On request

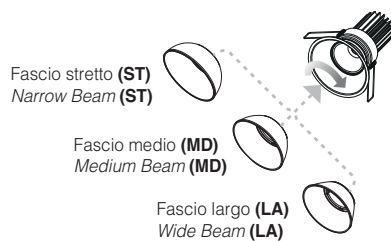
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

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 75 = 200 mA  
 H 75 = 250 mA  
 H 105 = 350 mA  
 H 135 = 500 mA



Nota/Note  
 Ottiche intercambiabili  
 Exchangeable optics

# ZETA LENS

FASCIO/BEAM ST | MD | LA

Apparecchio LED da incasso con ottiche intercambiabili.  
 Recessed LED downlight with exchangeable optics.

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 CAE. 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 CAE. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
890	7	≤ 127	200	HRZL1	<b>ST:</b> fascio stretto narrow beam	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	-.: CAE elettronica electronic  <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			
2150	18	≤ 120	500	HRZL4				



A richiesta | On request

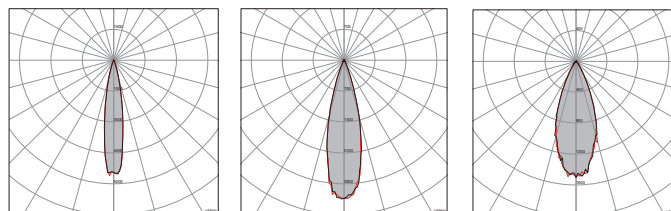
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

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%

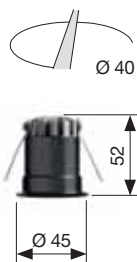
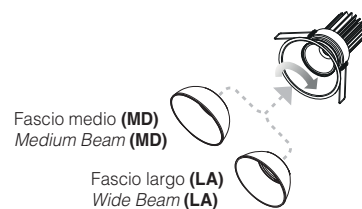
Ottica ST 12°

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

## FASCIO/BEAM MD | LA

Apparecchio LED da incasso.  
Recessed LED downlight.

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). Sorgente luminosa LED. Emissione diretta. Fissaggio ad incasso mediante molle. Alimentazione elettronica separata CAE. 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). LED light source. Direct light emission. Recessed fixing system with springs. Separate electronic driver CAE. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD).*



Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
620	6,5	≤ 96	180	HRZMI1	<b>MD:</b> fascio medio medium beam  <b>LA:</b> fascio largo wide beam	<b>WW:</b> 2700 <b>W:</b> 3000 <b>N:</b> 4000	<b>--:</b> CAE elettronica electronic  <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>



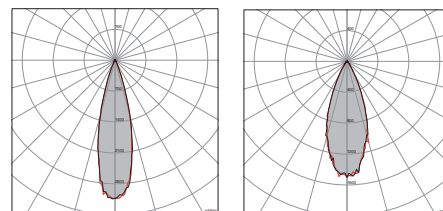
A richiesta | On request

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%

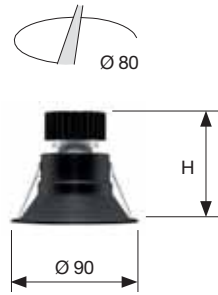
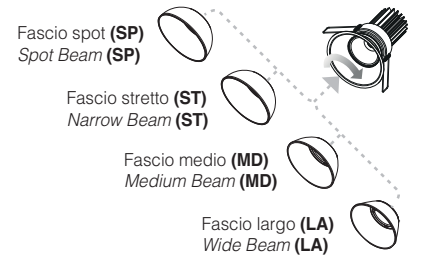
Ottica MD 24°

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





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 SP | ST | MD | LA

Apparecchio LED da incasso con ottiche intercambiabili.  
 Recessed LED downlight exchangeable optics.

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 CAE. 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 CAE. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

**5Y WARRANTY**  
5% FAILURE RATE

**60.000 h**  
LED LIFETIME L90B10

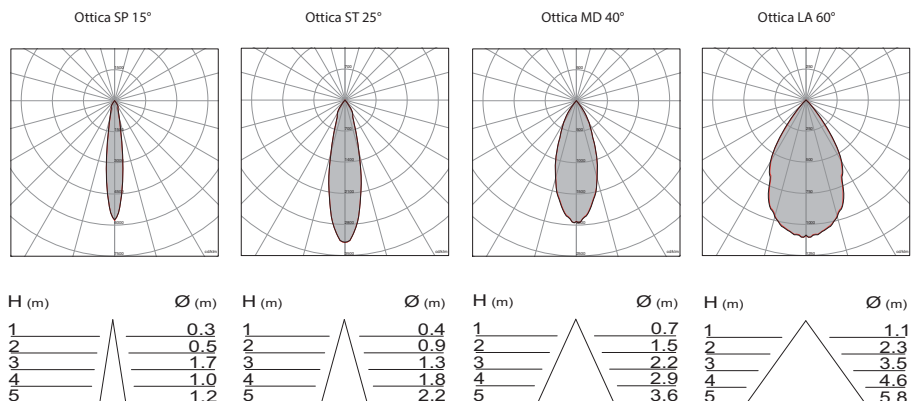
**100.000 h**  
LED LIFETIME L70B50

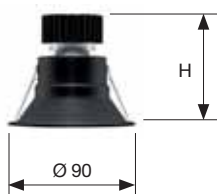
Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
890	7	≤ 127	200	<b>HRUN1</b>	<b>SP:</b> fascio spot spot beam	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	<b>-:</b> CAE elettronica electronic <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> 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
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

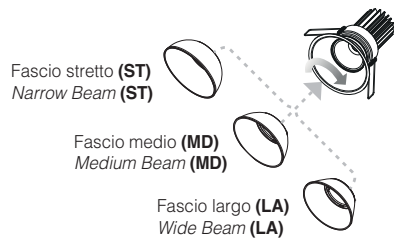
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

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



Nota/Note  
 Ottiche intercambiabili  
 Exchangeable optics

# UNO LENS

FASCIO/BEAM ST | MD | LA

Proiettore LED da incasso con ottiche intercambiabili.  
 Recessed LED downlight exchangeable optics.

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 CAE. 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 CAE. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.



Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
890	7	≤ 127	200	HRUNL1	<b>ST:</b> fascio stretto narrow beam	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	-: CAE elettronica electronic <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	<b>MD:</b> fascio medio medium beam			
1550	13	≤ 119	350	HRUNL3	<b>LA:</b> fascio largo wide beam			
2150	18	≤ 120	500	HRUNL4				



A richiesta | On request

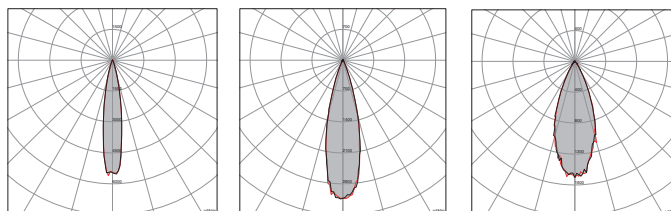
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90.  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

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%

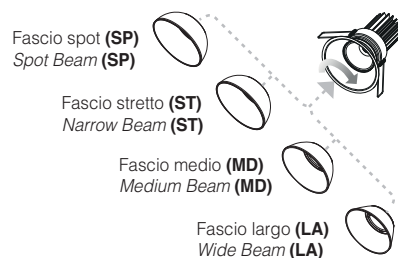
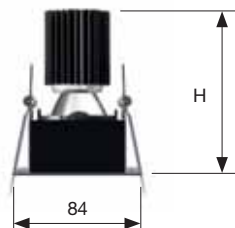
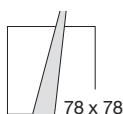
Ottica ST 12°

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 85 = 200 mA  
 H 85 = 250 mA  
 H 115 = 350 mA  
 H 145 = 500 mA

# RUMBA

FASCIO/BEAM SP | ST | MD | LA

Apparecchio LED da incasso con ottiche intercambiabili.  
 Recessed LED downlight exchangeable optics.

Corpo in lamiera pressopiegata 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 CAE. A richiesta: dimmerabile DALI (cod. DL). Specificare se con funzione Push Dim (cod. PD). Emergenza autonomia 1h/3h.

Bent 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 CAE. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.



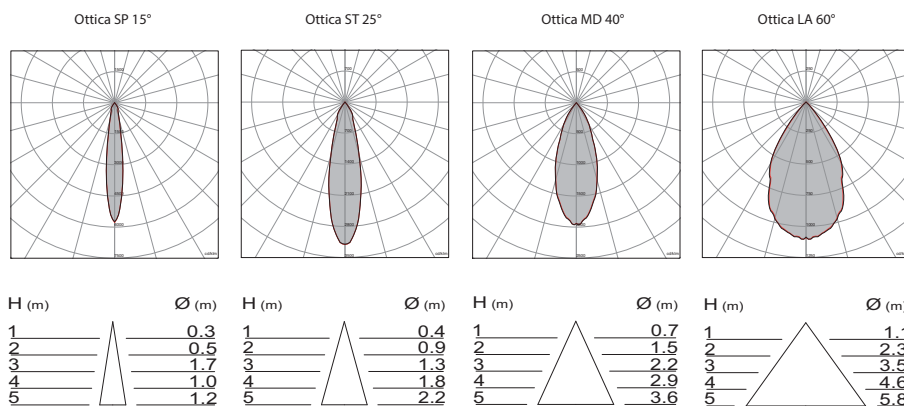
Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
890	7	≤ 127	200	HRRU1	<b>SP:</b> fascio spot spot beam	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	-: CAE elettronica electronic  <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <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	HRRU2	<b>ST:</b> fascio stretto narrow beam			
1550	13	≤ 119	350	HRRU3	<b>MD:</b> fascio medio medium beam			
2150	18	≤ 120	500	HRRU4	<b>LA:</b> fascio largo wide beam			

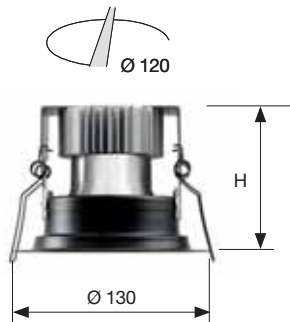
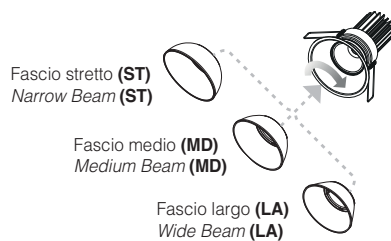


A richiesta | On request

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%





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 ST | MD | LA

Apparecchio LED da incasso con ottiche intercambiabili.  
Recessed LED downlight exchangeable optics.

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 CAE. 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 CAE. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.



Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
2150	18	≤ 120	500	<b>HRSI1</b>	<b>ST:</b> fascio stretto narrow beam	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	--: CAE elettronica electronic <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>HRSI2</b>	<b>MD:</b> fascio medio medium beam			
2950	26	≤ 114	700	<b>HRSI3</b>	<b>LA:</b> fascio largo wide beam			
3350	30	≤ 112	800	<b>HRSI4</b>				



A richiesta | On request

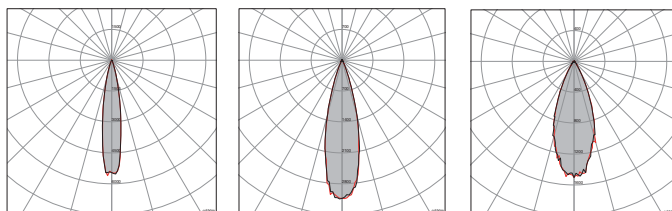
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

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%

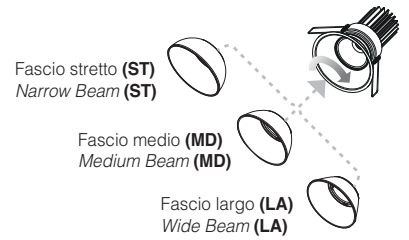
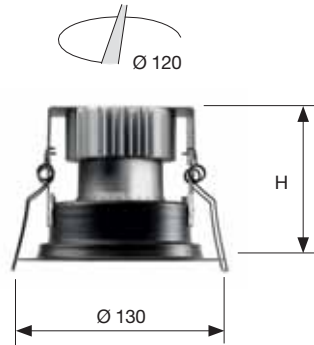
Ottica ST 12°

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

# ENNE

## FASCIO/BEAM ST | MD | LA

Apparecchio LED da incasso con ottiche intercambiabili.  
Recessed LED downlight exchangeable optics.

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 CAE. 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 CAE. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.



Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
2150	18	≤ 120	500	<b>HREN1</b>	<b>ST:</b> fascio stretto narrow beam	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	-.: CAE elettronica electronic <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>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

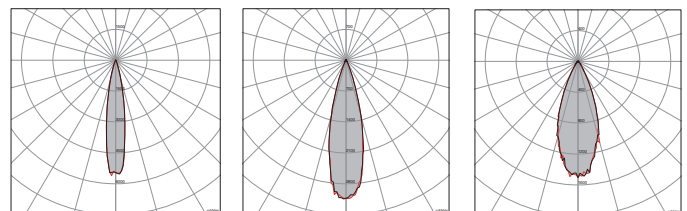
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

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°

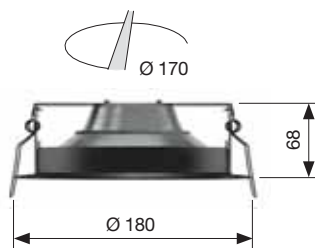
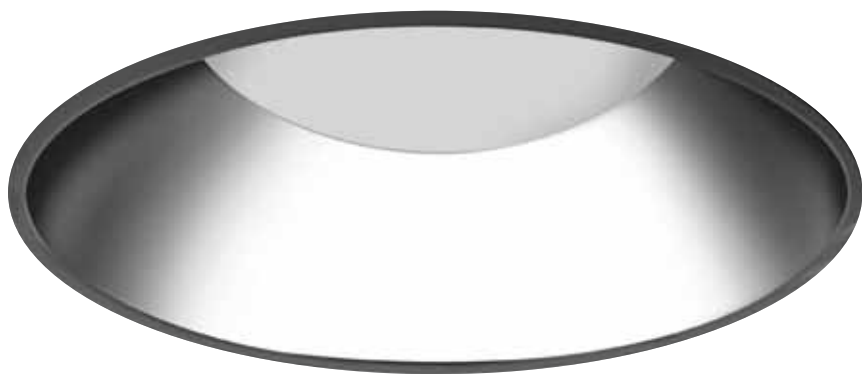
Ottica MD 25°

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 LA

Apparecchio LED da incasso con ottica speculare.  
Recessed LED downlight with specular optics.

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 CAE. 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 CAE. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.



Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
2150	18	≤ 120	500	HRSP1	LA: fascio largo wide beam	WW: 2700 W:3000 X:3500 N:4000	-: CAE elettronica electronic  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	HRSP2				
2950	26	≤ 114	700	HRSP3				

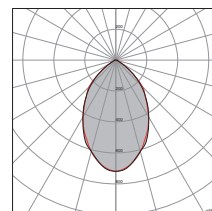


A richiesta | On request

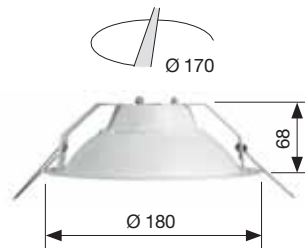
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90.  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

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 LA

Apparecchio LED da incasso.  
Recessed LED downlight.

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 CAE. 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 CAE. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.



Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
2150	18	≤ 120	500	<b>HR1801</b>	<b>LA:</b> fascio largo wide beam	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	-: CAE elettronica electronic  <b>DL:</b> DALI	<b>Standard:</b>
2550	22	≤ 116	<b>HR1802</b>	● <b>W1:</b> White Irazu ● <b>BLL:</b> Black Lava				
2950	26	≤ 114	<b>HR1803</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

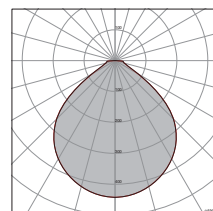


A richiesta | On request

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%

Ottica LA 100°



H (m)	Ø (m)
1	2.4
2	4.8
3	7.2
4	9.5
5	12



MICRO GIRO

MICRO GIRO LENS

MINIAUTOMA

MINIAUTOMA LENS

SII ORIENT LENS

ENNE ORIENT LENS

MINI GIRO LENS

ROLLER LENS

Apparecchi LED da incasso orientabili.

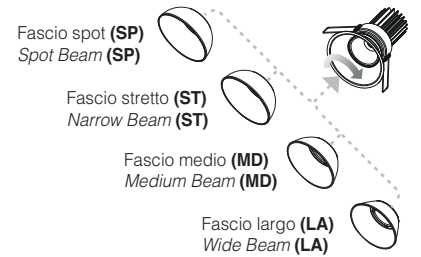
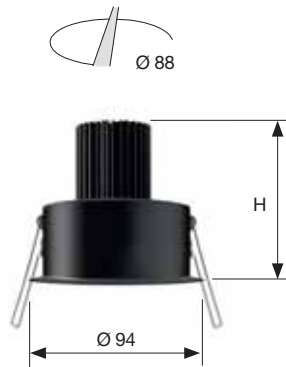
*LED adjustable recessed downlights.*

**INCASSI ORIENTABILI**  
*ADJUSTABLE RECESSED*









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 SP | ST | MD | LA

Apparecchio LED da incasso orientabile  
 Adjustable recessed LED downlight.

**5Y WARRANTY**  
 5% FAILURE RATE

**60.000 h**  
 LED LIFETIME L90B10

**100.000 h**  
 LED LIFETIME L70B50

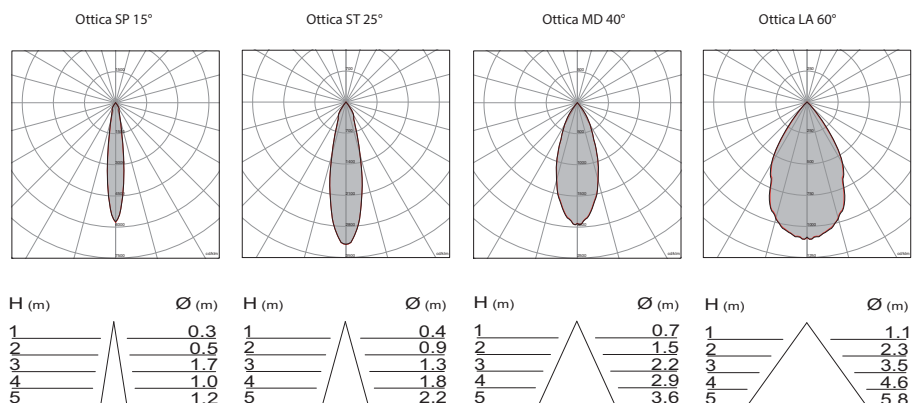
Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
890	7	≤ 127	200	<b>HRMCGR1</b>	<b>SP:</b> fascio spot spot beam	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	-: CAE elettronica electronic  <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> White 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
1100	9	≤ 122	250	<b>HRMCGR2</b>	<b>ST:</b> fascio stretto narrow beam			
1570	13	≤ 121	350	<b>HRMCGR3</b>	<b>MD:</b> fascio medio medium beam			
2150	18	≤ 120	500	<b>HRMCGR4</b>	<b>LA:</b> fascio largo wide beam			
2950	26	≤ 114	700	<b>HRMCGR5</b>				

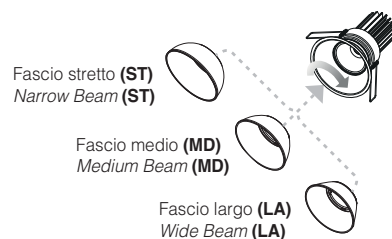


A richiesta | On request

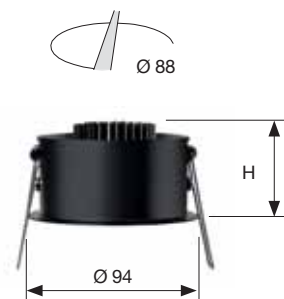
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

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%





Nota/Note  
 Ottiche intercambiabili  
 Exchangeable optics



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°

# MICRO GIRO LENS

FASCIO/BEAM ST | MD | LA

Apparecchio LED da incasso orientabile  
 Adjustable recessed LED downlight.



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 CAE. 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 CAE. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
890	7	≤ 127	200	HRMCGL1	<b>ST:</b> fascio stretto narrow beam  <b>MD:</b> fascio medio medium beam  <b>LA:</b> fascio largo wide beam	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	-: CAE elettronica electronic  <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	HRMCGL2				
1570	13	≤ 121	350	HRMCGL3				
2150	18	≤ 120	500	HRMCGL4				
2950	26	≤ 114	700	HRMCGL5				

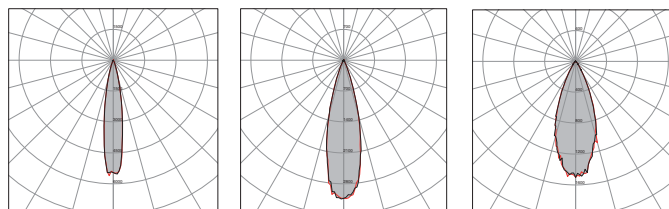


A richiesta | On request

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%

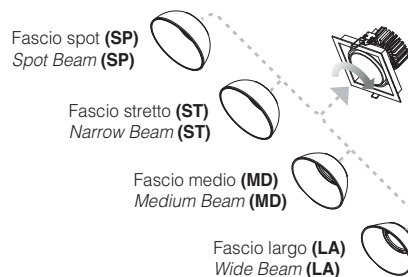
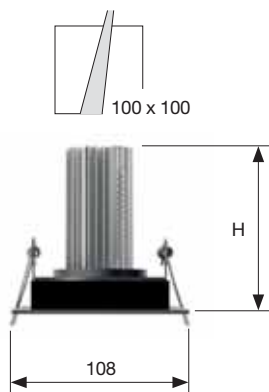
Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90;  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

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 SP | ST | MD | LA

Apparecchio LED da incasso orientabile  
 Adjustable recessed LED downlight.

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 CAE. 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 CAE. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.



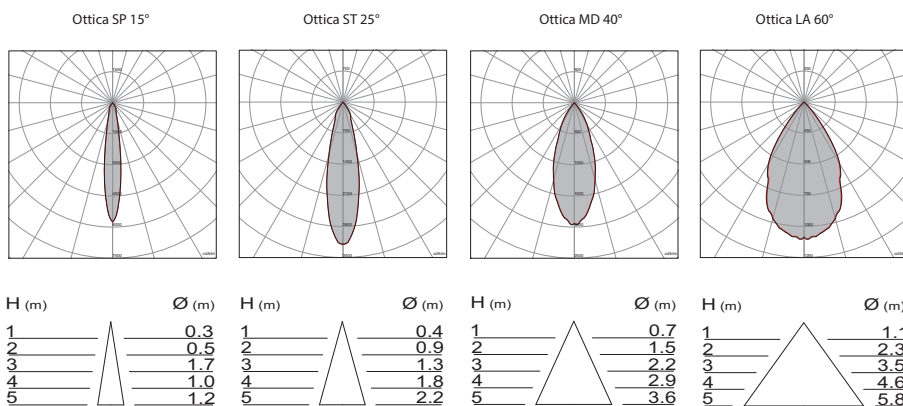
Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
890	7	≤ 127	200	<b>HRMA1</b>	<b>SP:</b> fascio spot spot beam	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	<b>--:</b> CAE elettronica electronic  <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> 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
1100	9	≤ 122	250	<b>HRMA2</b>	<b>ST:</b> fascio stretto narrow beam			
1570	13	≤ 121	350	<b>HRMA3</b>	<b>MD:</b> fascio medio medium beam			
2150	18	≤ 120	500	<b>HRMA4</b>	<b>LA:</b> fascio largo wide beam			

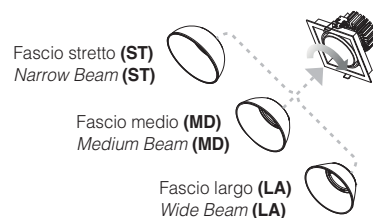
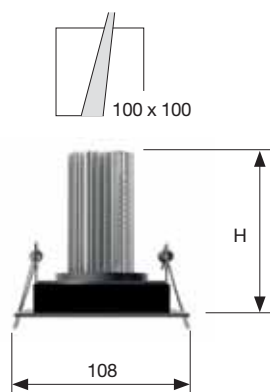


A richiesta | On request

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%





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 ST | MD | LA

Apparecchio LED da incasso orientabile  
 Adjustable recessed LED downlight.



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 CAE. 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 CAE. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
890	7	≤ 127	200	<b>HRMAL1</b>	<b>ST:</b> fascio stretto narrow beam	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	<b>--:</b> CAE elettronica electronic <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>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

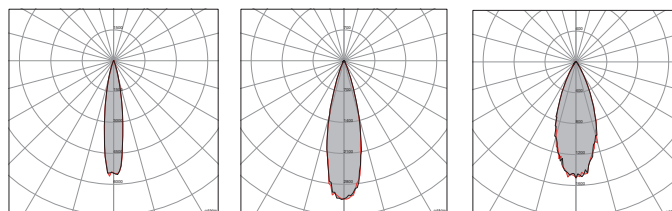
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

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%

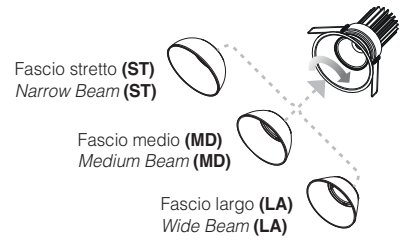
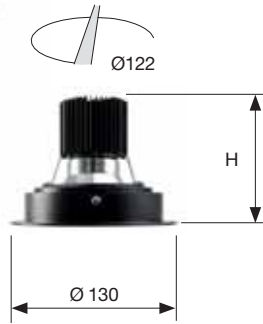
Ottica ST 12°

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

Orientabilità  
Adjustability  
Asse X / Axis X 45°

# SII ORIENT LENS

FASCIO/BEAM ST | MD | LA

Apparecchio LED da incasso orientabile  
Adjustable recessed LED downlight.

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 CAE. 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 CAE. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.



Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
2150	18	≤ 120	500	HRSIOL1	ST: fascio stretto narrow beam	WW: 2700	-: CAE elettronica electronic  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	HRSIOL2	MD: fascio medio medium beam	W:3000		
2950	26	≤ 114	700	HRSIOL3	LA: fascio largo wide beam	X:3500		
3350	30	≤ 112	800	HRSIOL4		N:4000		



A richiesta | On request

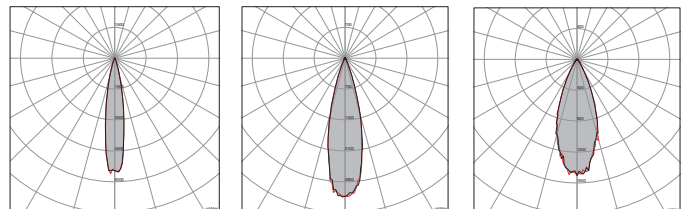
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90.  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

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%

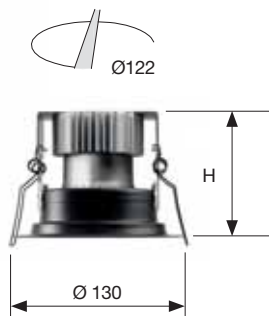
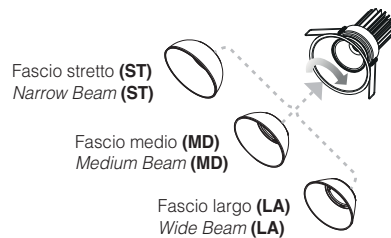
Ottica ST 12°

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

Nota/Note  
 Ottiche intercambiabili  
 Exchangeable optics

Orientabilità  
 Adjustability  
 Asse X / Axis X 45°

# ENNE ORIENT LENS

FASCIO/BEAM ST | MD | LA

Apparecchio LED da incasso orientabile  
 Adjustable recessed downlight.

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 CAE. 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 CAE. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

**5Y WARRANTY**  
5% FAILURE RATE

**60.000 h**  
LED LIFETIME L90B10

**100.000 h**  
LED LIFETIME L70B50

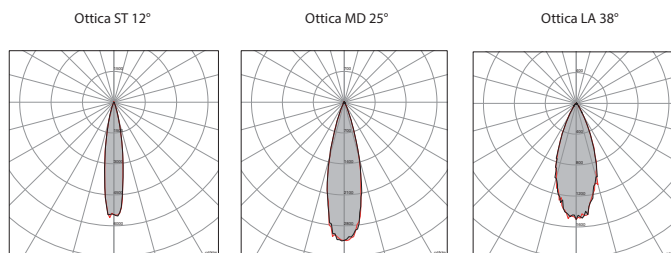
Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
2150	18	≤ 120	500	<b>HRENOL1</b>	<b>ST:</b> fascio stretto narrow beam	<b>WW:</b> 2700	<b>-:</b> CAE elettronica electronic	<b>Standard:</b> ● <b>W1:</b> White Irazu ● <b>BLL:</b> Black Lava
2550	22	≤ 116	600	<b>HRENOL2</b>	<b>MD:</b> fascio medio medium beam	<b>W:</b> 3000 <b>X:</b> 3500	<b>DL:</b> DALI	<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>HRENOL3</b>	<b>LA:</b> fascio largo wide beam	<b>N:</b> 4000		
3350	30	≤ 112	800	<b>HRENOL4</b>				

CE
EMC
>90 CRI
3SDCM
IP44 EN 60529
IK 07 EN 60068
230 V 2014/35/EU
50/60 Hz
850° EN 60895
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

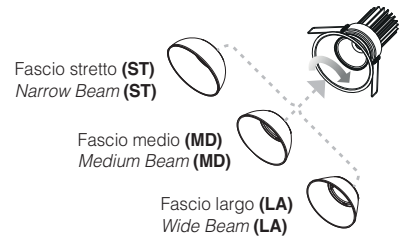
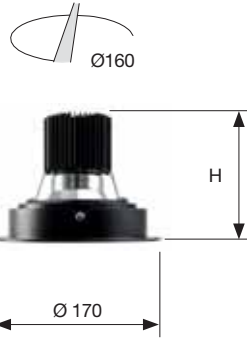
A richiesta | On request

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%



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 ST | MD | LA

Apparecchio LED da incasso orientabile  
Adjustable recessed LED downlight.



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 CAE. 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 CAE. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
2150	18	≤ 120	500	<b>HRMGRL1</b>	<b>ST:</b> fascio stretto narrow beam	<b>WW:</b> 2700	-: CAE elettronica electronic  <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>HRMGRL2</b>	<b>MD:</b> fascio medio medium beam	<b>W:</b> 3000 <b>X:</b> 3500		
2950	26	≤ 114	700	<b>HRMGRL3</b>	<b>LA:</b> fascio largo wide beam	<b>N:</b> 4000		
3350	30	≤ 112	800	<b>HRMGRL4</b>				



A richiesta | On request

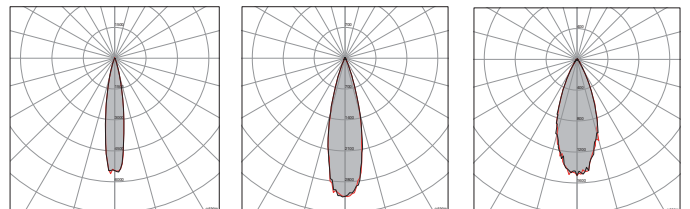
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

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°

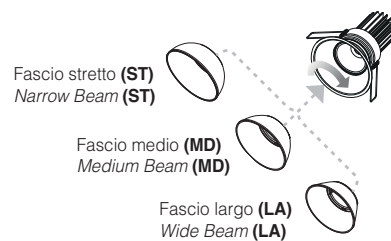
Ottica MD 25°

Ottica LA 38°

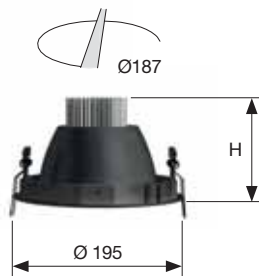


H (m)	Ø (m)	H (m)	Ø (m)	H (m)	Ø (m)
1	0.2	1	0.4	1	0.7
2	0.4	2	0.8	2	1.4
3	0.6	3	1.3	3	2.1
4	0.8	4	1.7	4	2.7
5	1.0	5	2.1	5	3.4





Nota/Note  
 Ottiche intercambiabili  
 Exchangeable optics



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

330°  
 Orientabilità  
 Adjustability  
 Asse X / Axis X 45°

# ROLLER LENS

FASCIO/BEAM ST | MD | LA

Apparecchio LED da incasso orientabile  
 Adjustable recessed LED downlight.

**5Y WARRANTY**  
5% FAILURE RATE

**60.000 h**  
LED LIFETIME L70B10

**100.000 h**  
LED LIFETIME L70B50

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 CAE. 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 CAE. On request: dimmable DALI (code DL). Push Dim function to be specified (code PD). Emergency autonomy 1h/3h.

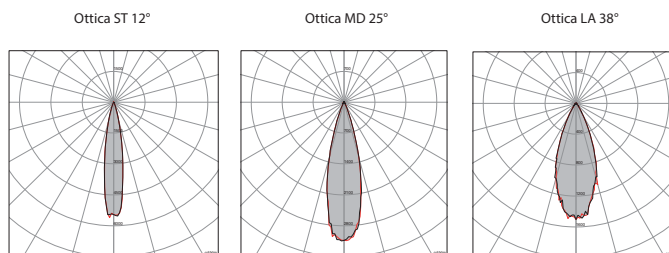
Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
2150	18	≤ 120	500	HRLL1	<b>ST:</b> fascio stretto narrow beam	<b>WW:</b> 2700	-: CAE elettronica electronic  <b>DL:</b> DALI	<b>Standard:</b> ● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava <b>Su richiesta /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	HRLL2	<b>MD:</b> fascio medio medium beam	<b>W:</b> 3000		
2950	26	≤ 114	700	HRLL3	<b>LA:</b> fascio largo wide beam	<b>X:</b> 3500		
3350	30	≤ 112	800	HRLL4		<b>N:</b> 4000		

CE  >90 CRI  3SDCM  IP44 EN 60529  IK 07 EN 60068  230 V 2014/26/UE  50/60 Hz  850° EN 60695  R6 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)
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





VIKY 55

TUBÌ S

TUBÌ MICRO

DECOR MINI

Apparecchi decorativi per installazione a sospensione.

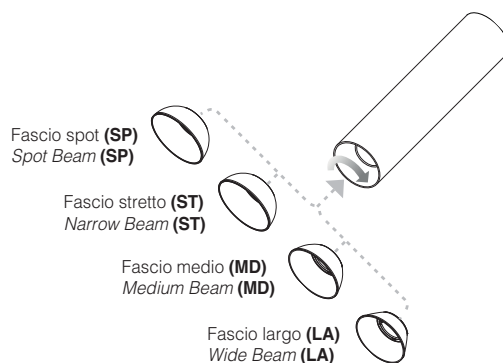
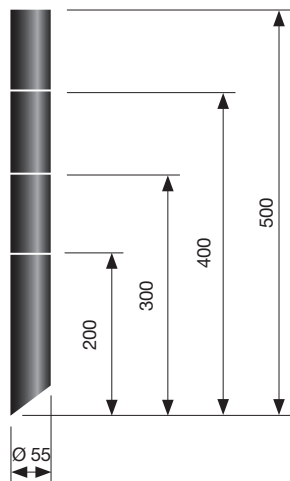
*Decorative suspensions lighting fittings.*

**DECORATIVI A SOSPENSIONE**  
*DECORATIVE SUSPENSIONS*









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

# VIKY 55

FASCIO/BEAM SP | ST | MD | LA

Sospensione tubolare decorativa Ø 55  
 taglio inclinato..  
 Decorative tubular suspension Ø 55 inclined cut.

**5Y WARRANTY**  
5% FAILURE RATE

**60.000 h**  
LED LIFETIME L90B10

**100.000 h**  
LED LIFETIME L70B50

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 CAE. 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 CAE. On request: dimmable DALI (code DL) PUSH DIM function (code PD) to be requested.

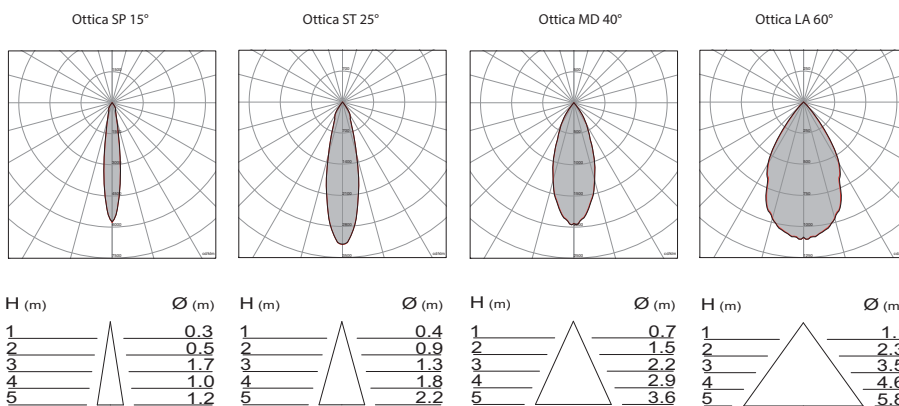
Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour	
<b>VIKY 55 200</b>									
1100	9	≤ 122	250	<b>HRVK21</b>					
1550	13	≤ 119	350	<b>HRVK22</b>					
<b>VIKY 55 300</b>									
1100	9	≤ 122	250	<b>HRVK31</b>	<b>SP:</b> fascio spot spot beam	<b>WW: 2700</b> <b>W:3000</b> <b>X:3500</b> <b>N:4000</b>	<b>-:</b> CAE elettronica electronic  <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>HRVK32</b>	<b>ST:</b> fascio stretto narrow beam				
1850	16	≤ 116	450	<b>HRVK33</b>					
<b>VIKY 55 400</b>									
1100	9	≤ 122	250	<b>HRVK41</b>	<b>MD:</b> fascio medio medium beam				
1550	13	≤ 119	350	<b>HRVK42</b>					
1850	16	≤ 116	450	<b>HRVK43</b>	<b>LA:</b> fascio largo wide beam				
<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>					

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

A richiesta | On request

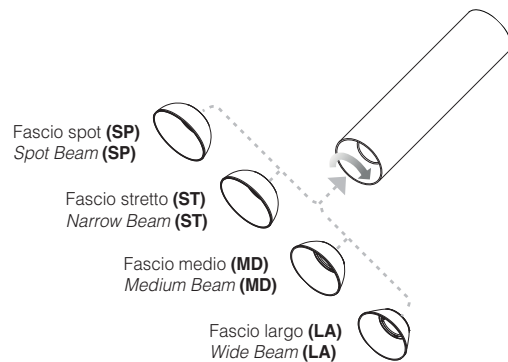
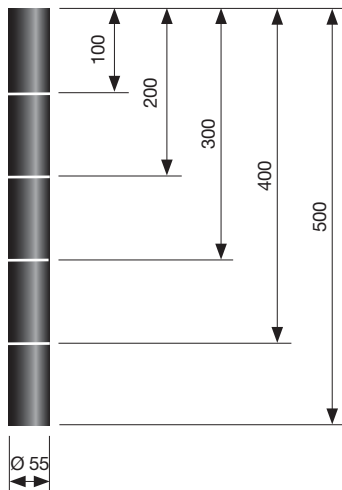
Temperatura ambiente min. - max: -10°+40° C.  
 Lumen: flusso totale in uscita con 3000K CRI90;  
 Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
 Watt: potenza di sistema  
 Tolleranza ± 10%

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 S

FASCIO/BEAM SP | ST | MD | LA

Sospensione tubolare decorativa Ø 55.  
Decorative tubular suspension Ø 55.

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 CAE. 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 lenght and ceiling rose) or ceiling mounting system. Built-in electronic driver CAE. On request: dimmable DALI (code DL) PUSH DIM function (code PD) to be requested. \* Tubi S100 DALI remote power supply.

**5Y WARRANTY**  
5% FAILURE RATE

**60.000 h**  
LED LIFETIME L90B10

**100.000 h**  
LED LIFETIME L70B50

Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
<b>TUBÌ S100*</b>								
1100	9	≤ 122	250	<b>HRTS11</b>				
1550	13	≤ 119	350	<b>HRTS12</b>				
<b>TUBÌ S200</b>								
1100	9	≤ 122	250	<b>HRTS21</b>				
1550	13	≤ 119	350	<b>HRTS22</b>				
<b>TUBÌ S300</b>								
1100	9	≤ 122	250	<b>HRTS31</b>	<b>SP:</b> fascio spot spot beam	<b>WW: 2700</b> <b>W:3000</b> <b>X:3500</b> <b>N:4000</b>	<b>--:</b> CAE elettronica electronic	<b>DL:</b> DALI
1550	13	≤ 119	350	<b>HRTS32</b>	<b>ST:</b> fascio stretto narrow beam			
1850	16	≤ 116	450	<b>HRTS33</b>	<b>MD:</b> fascio medio medium beam			
<b>TUBÌ S400</b>								
1100	9	≤ 122	250	<b>HRTS41</b>	<b>LA:</b> fascio largo wide beam			
1550	13	≤ 119	350	<b>HRTS42</b>				
1850	16	≤ 116	450	<b>HRTS43</b>				
<b>TUBÌ S500</b>								
1100	9	≤ 122	250	<b>HRTS51</b>				
1550	13	≤ 119	350	<b>HRTS52</b>				
1850	16	≤ 116	450	<b>HRTS53</b>				

**Standard:**

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

**Su richiesta / On request:**

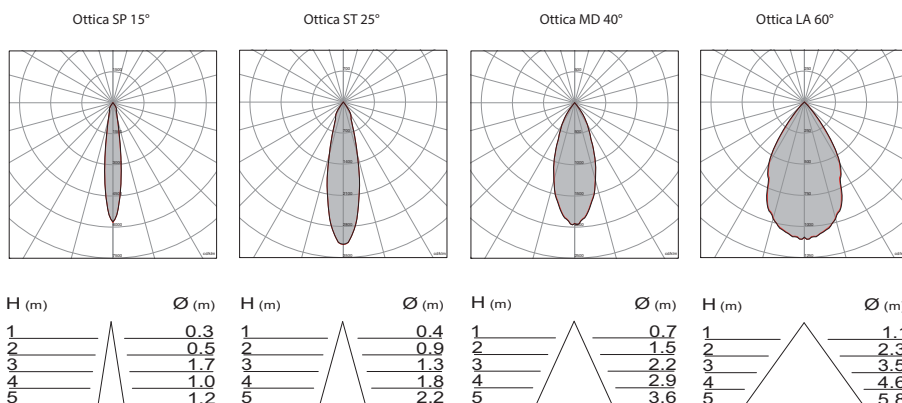
- **SB:** Silver Bombalai
- **BL:** Bronze Lario
- **RR:** Rust Rame
- **BF:** Beige Futura
- **GK:** Gold Karkar
- **BT:** Blue Telica

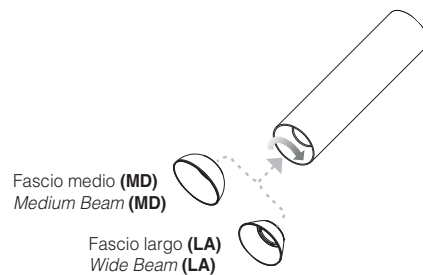
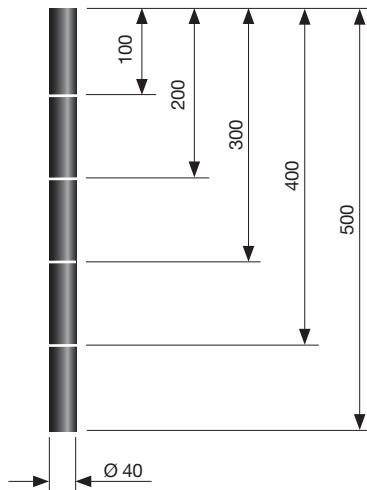
CE, >90 CRI, 3SDCM, IP44 EN 60529, IK 07 EN 60068, 230 V 201425UE, 50/60 Hz, 850° EN 60955, RG 0 EN 62471, DALI, PD, DIM W, >80 CRI, >95 CRI, VIVID PLUS, VEG PLUS, WHITE PLUS, MEAT PLUS

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%





# TUBÌ MICRO

## FASCIO/BEAM MD | LA

Sospensione tubolare decorativa Ø 40.  
Decorative tubular suspension Ø 40.

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 CAE (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 CAE (Remote driver only for S100). On request: dimmable DALI (code DL) PUSH DIM function (code PD) to be requested, remote power supply.

**5Y WARRANTY**  
5% FAILURE RATE

**60.000 h**  
LED LIFETIME L70B10

**100.000 h**  
LED LIFETIME L70B50

Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
<b>TUBÌ M S100</b> 620	6,5	≤ 96	180	<b>HRTMS1</b>	<b>MD:</b> fascio medio medium beam  <b>LA:</b> fascio largo wide beam	<b>WW:</b> 2700 <b>W:</b> 3000 <b>N:</b> 4000	<b>-:</b> CAE elettronica electronic  <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>TUBÌ M S200</b> 620	6,5	≤ 96	180	<b>HRTMS2</b>				
<b>TUBÌ M S300</b> 620	6,5	≤ 96	180	<b>HRTMS3</b>				
<b>TUBÌ M S400</b> 620	6,5	≤ 96	180	<b>HRTMS4</b>				
<b>TUBÌ M S500</b> 620	6,5	≤ 96	180	<b>HRTMS5</b>				



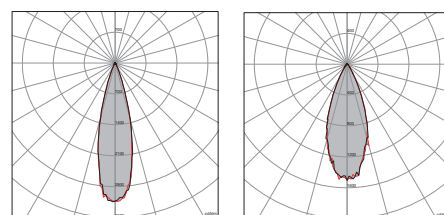
A richiesta | On request

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%

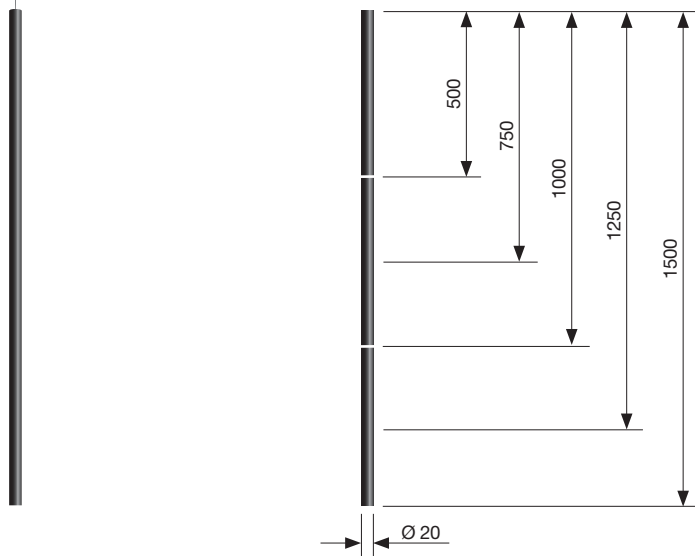
Ottica MD 24°

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 MD

Sospensione tubolare decorativa Ø 20.  
Decorative tubular suspension Ø 20.



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 CAE. 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 CAE 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.*

Lumen	Watt	Lumen Watt Out	Vcc	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
<b>DECOR M50</b> 220	2,1	≤ 104	24	<b>HRDM1</b>	<b>MD:</b> fascio medio medium beam	<b>WW:</b> 2700 <b>W:</b> 3000 <b>N:</b> 4000	-: CAE elettronica electronic  <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
<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>				

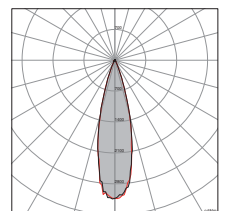


A richiesta | On request

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







REAL

TATI

LOFT

BASKET

BLEK

FOCO

PLATÒ

MAGGIOLINA

Sistema di apparecchi illuminotecnici  
LED a sospensione, plafone e binario.  
*Suspension, ceiling and track LED lighting  
fittings system.*



**SOSPENSIONE PLAFONE  
BINARIO**

*SUSPENSION CEILING TRACK*



McCafe

**La Tradizione**

- Espresso
- Caffè macchiato
- Cappuccino
- Latte
- Caffè ristretto
- Caffè macchiato
- Il caffè
- Chocolato
- Macchiato

**Le Specialità Invernali**

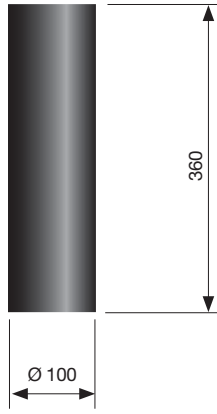
- Thermomix
- Chocolato
- Cappuccino
- Cappuccino di latte

**Le Specialità Invernali**

- Thermomix € 1,70
- Chocolato € 2,40
- Cappuccino € 1,50
- Cappuccino di latte € 1,70

La più dolce delle pause.

McCafe  
Caffè macchiato  
Cappuccino



# REAL

## FASCIO/BEAM LA

Sospensione decorativa.  
Decorative suspension.



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 CAE. 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 lenght 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 CAE. On request: dimmable DALI (code DL). Emergency autonomy 1h/3h.*

Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
1410 + 1330	11 + 11	≤ 128	450	HRRE1	LA: fascio largo wide beam	WW: 2700 W:3000 X:3500 N:4000	-: CAE elettronica electronic  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 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

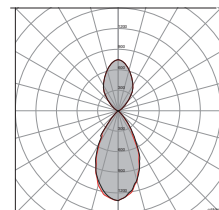


A richiesta | On request

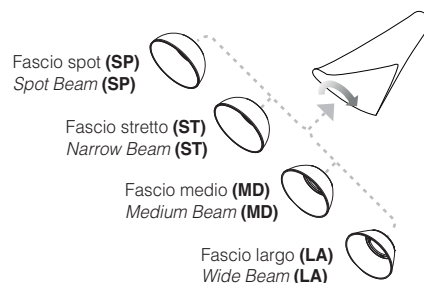
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

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 SP | ST | MD | LA

Sospensione decorativa con ottiche intercambiabili.  
 Decorative suspension with exchangeable optics.

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 CAE. 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. 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 (cod. TK). Built-in electronic driver CAE. On request: dimmable DALI (code DL).



Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
890	7	≤ 127	200	<b>HRTA1</b>	<b>SP:</b> fascio spot spot beam	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	-: CAE elettronica electronic  <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>HRTA2</b>	<b>ST:</b> fascio stretto narrow beam			
1350	11	≤ 121	300	<b>HRTA3</b>	<b>MD:</b> fascio medio medium beam			
					<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%

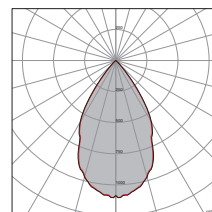
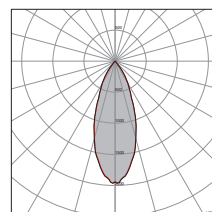
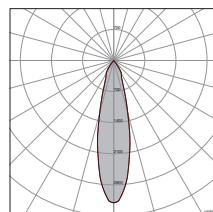
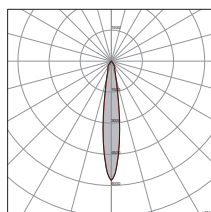
Min and Max room temperature: -10°+40° C.  
 Lumen: total output flux with 3000K CRI90.  
 Flux variation with CRI85 + 8%, with CRI95 - 8%.  
 Watt: system power  
 Tolerance ± 10%

Ottica SP 15°

Ottica ST 25°

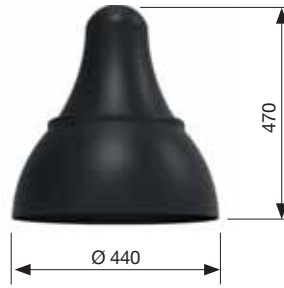
Ottica MD 40°

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





# LOFT

## FASCIO/BEAM LA

Sospensione decorativa.  
Decorative suspension.

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 CAE. A richiesta: dimmerabile DALI (cod. DL). Emergenza autonomia 1h/3h..

*Turned aluminium body painted with epoxy powders after phosphating. Complete with suspension cable 2 mt lenght 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 CAE. On request: dimmable DALI (code DL). Emergency autonomy 1h/3h.*

<b>5Y WARRANTY</b> 5% FAILURE RATE	<b>60.000 h</b> LED LIFETIME L70810	<b>100.000 h</b> LED LIFETIME L70850
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Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
1465	11	≤ 131	250	<b>HRLO1</b>	<b>LA:</b> fascio largo wide beam	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	-: CAE elettronica electronic  <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>HRLO2</b>				
2470	20	≤ 123	450	<b>HRLO3</b>				
2560	22	≤ 116	500	<b>HRLO4</b>				
3275	27	≤ 124	600	<b>HRLO5</b>				

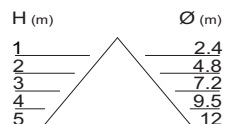
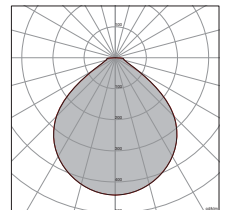
CE	⊕	>90 CRI	3SDCM	IP44 EN 60529	IK 07 EN 60068	230 V 2014/25/EU	50/60 Hz	850° EN 60895	ARM EN 62471	RG 0 EN 62471	🏠	DL DALI	DIM W	>80 CRI	>95 CRI	VIVID PLUS	VEG PLUS	WHITE PLUS	MEAT PLUS	EM	TK
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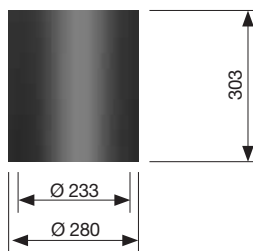
A richiesta | On request

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°





# BASKET

## FASCIO/BEAM LA

Sospensione decorativa.  
Decorative suspension.

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 CAE. A richiesta: dimmerabile DALI (cod. DL). Emergenza autonomia 1h/3h.

*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 CAE. On request: dimmable DALI (code DL). Emergency autonomy 1h/3h.*



Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
4820	42	≤ 114	350	<b>HRBK1</b>	<b>LA:</b> fascio largo wide beam	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	-: CAE elettronica electronic  <b>DL:</b> DALI	<b>Standard:</b>
6100	54	≤ 110	450	<b>HRBK2</b>				● <b>WI:</b> White Irazu ● <b>BLL:</b> Black Lava
8700	87	≤ 100	700	<b>HRBK3</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

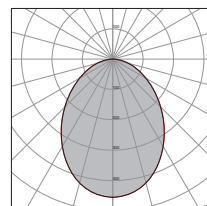


A richiesta | On request

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%

Ottica LA 90°



H (m)	Ø (m)
1	2.0
2	4.0
3	6.0
4	8.0
5	10



# BLEK

## FASCIO/BEAM LA

Sospensione decorativa.  
Decorative suspension.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Completa di cavo di sospensione L. 2 m e rosone. Riflettore prismatizzato 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 CAE. 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 lenght 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 CAE. On request: dimmable DALI (code DL). Emergency autonomy 1h/3h.*



Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
1465	11	≤ 131	250	HRBL1	LA: fascio largo wide beam	WW: 2700 W:3000 X:3500 N:4000	-: CAE elettronica electronic  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	HRBL2				
2470	20	≤ 123	450	HRBL3				
2560	22	≤ 116	500	HRBL4				
3275	27	≤ 124	600	HRBL5				

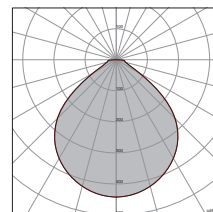


A richiesta | On request

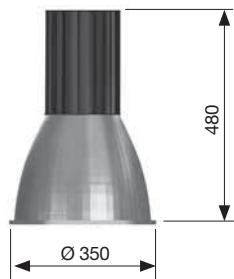
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

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%

Ottica LA 100°



H (m)	Ø (m)
1	2.4
2	4.8
3	7.2
4	9.5
5	12



# FOCO

## FASCIO/BEAM LA

Sospensione decorativa.  
Decorative suspension.

Corpo in estruso d'alluminio verniciato con polveri epossidiche previa fosfatazione. Completa di cavo di sospensione L. 2 m e rosone. Riflettore prismatizzato 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 CAE. 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. 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 CAE. On request: dimmable DALI (code DL). Emergency autonomy 1h/3h.*

<b>5Y WARRANTY</b> 5% FAILURE RATE	<b>60.000 h</b> LED LIFETIME L90B10	<b>100.000 h</b> LED LIFETIME L70B50
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Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
1465	11	≤ 131	250	<b>HRFO1</b>	<b>LA:</b> fascio largo wide beam	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	-: CAE elettronica electronic  <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>HRFO2</b>				
2470	20	≤ 123	450	<b>HRFO3</b>				
2560	22	≤ 116	500	<b>HRFO4</b>				
3275	27	≤ 124	600	<b>HRFO5</b>				

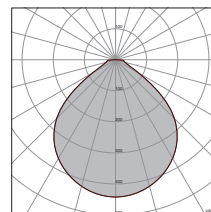


A richiesta | On request

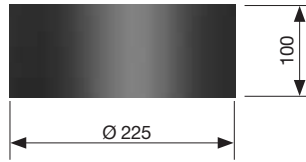
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90;  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

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



# PLATÒ

## FASCIO/BEAM LA

Plafoniera decorativa, attacco plafone o binario  
Decorative LED fitting for ceiling or track mounting.

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 CAE. 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 CAE. On request: dimmable DALI (code DL). Emergency autonomy 1h/3h.*



Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
1465	11	≤ 131	250	<b>HRPL1</b>	<b>LA:</b> fascio largo wide beam	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	-: CAE elettronica electronic  <b>DL:</b> DALI	<b>Standard:</b>
1975	16	≤ 123	350	<b>HRPL2</b>				● <b>WL:</b> White Irazu ● <b>BL:</b> Black Lava
2470	20	≤ 123	450	<b>HRPL3</b>				<b>Su richiesta / On request:</b>
2560	22	≤ 116	500	<b>HRPL4</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

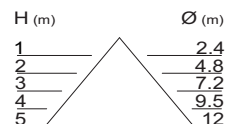
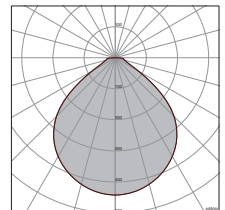


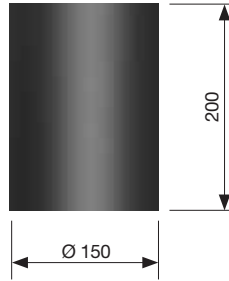
A richiesta | On request

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 LA 100°





# MAGGIOLINA

## FASCIO/BEAM LA

Plafoniera decorativa, attacco plafone o binario  
Decorative LED fitting for ceiling or track mounting.

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 CAE. 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 CAE. On request: dimmable DALI (code DL). Emergency autonomy 1h/3h.*

**5Y WARRANTY**  
5% FAILURE RATE

**60.000 h**  
LED LIFETIME L90B10

**100.000 h**  
LED LIFETIME L70B50

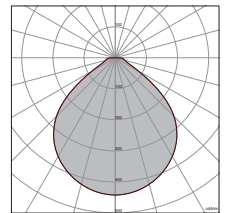
Lumen	Watt	Lumen Watt Out	mA	Codice Code	Fascio Beam	K	Alimentazione Power Supply	Colore Colour
1465	11	≤ 131	250	<b>HRMAG1</b>	<b>LA:</b> fascio largo wide beam	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	-: CAE elettronica electronic  <b>DL:</b> DALI	<b>Standard:</b>
1975	16	≤ 123	350	<b>HRMAG2</b>				● <b>WL:</b> White Irazu ● <b>BLL:</b> Black Lava
2470	20	≤ 123	450	<b>HRMAG3</b>				<b>Su richiesta / On request:</b>
2560	22	≤ 116	500	<b>HRMAG4</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 LA 100°



H (m)	Ø (m)
1	2.4
2	4.8
3	7.2
4	9.5
5	12



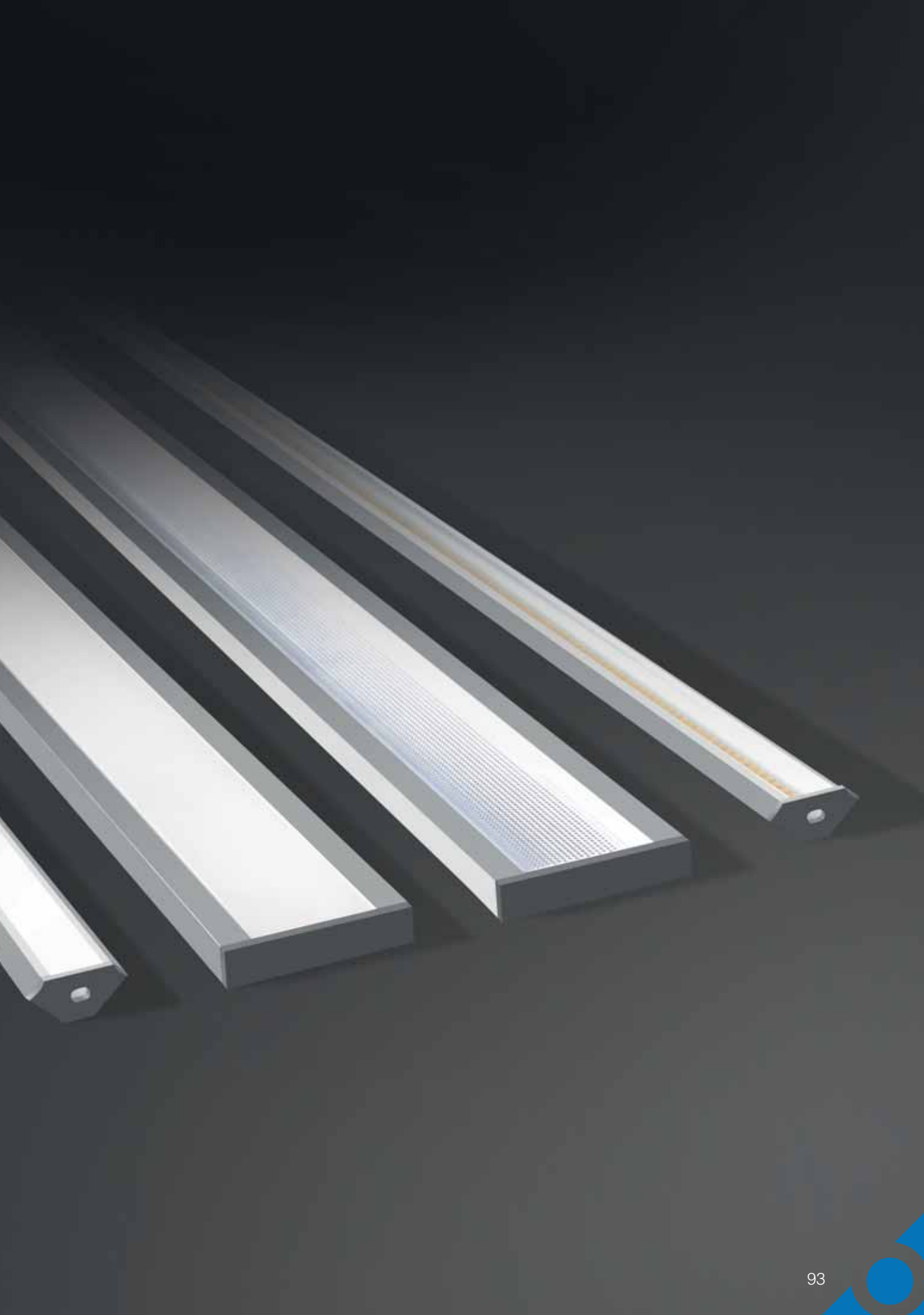
SOO L

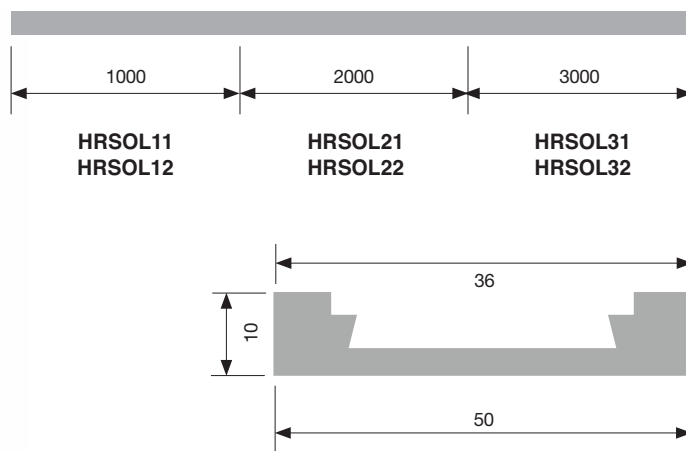
LUMA A

LUMA P

LUMA I

**SISTEMI LINEARI 24 VOLT**  
*LINEAR SYSTEM 24 VOLT*





# SOO L

## SCHERMO/DIFFUSER OP | MP

Sistema LED lineare 24 Volt.  
LED linear system 24 Volt.

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. Sorgente luminosa LED. Emissione diretta. Fissaggio a plafone o incasso a mezzo viti. Alimentazione 24 volt esterna CAE. 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 m. length. LED light source. Direct light emission. Ceiling mounting system or recessed with screws. Separate electronic driver 24 Volt CAE. Driver not included, to be ordered separately. On request: dimmable DALI (code DL).*



Lumen	Watt	Lumen Watt Out	Volt	Codice Code	Schermo Diffuser	K	Alimentazione Power Supply	Colore Colour
2350	19	≤ 123	24	<b>HRSOL11</b>	<b>OP:</b> opale opal  <b>MP:</b> microprismato microprismatic	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	<b>--:</b> CAE elettronica electronic  <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
4700	38	≤ 123	24	<b>HRSOL21</b>				
7050	57	≤ 123	24	<b>HRSOL31</b>				
4700	38	≤ 123	24	<b>HRSOL12</b>				
9400	76	≤ 123	24	<b>HRSOL22</b>				
14100	114	≤ 123	24	<b>HRSOL32</b>				



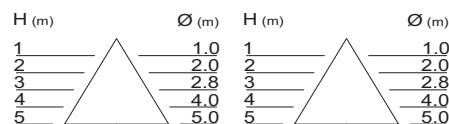
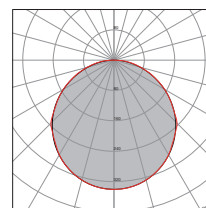
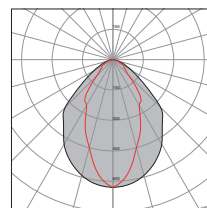
A richiesta | On request

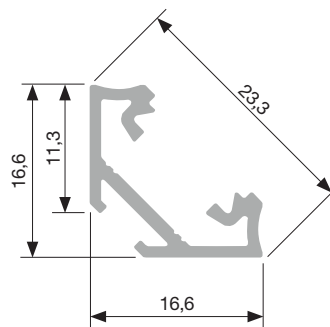
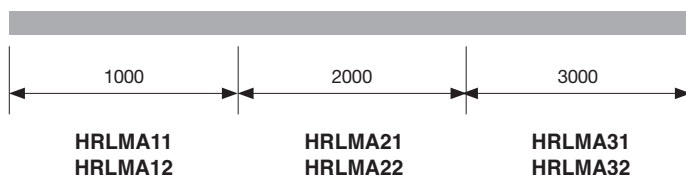
Temperatura ambiente min. - max: -10°+40° C.  
Lumen: flusso totale in uscita con 3000K CRI90.  
Variazione flusso con CRI85 + 8%, con CRI95 - 8%.  
Watt: potenza di sistema  
Tolleranza ± 10%

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°





# LUMA A

## SCHERMO/DIFFUSER OP

Sistema LED lineare a plafone 24 Volt.  
Ceiling LED linear system 24 Volt.

Corpo in estruso di alluminio anodizzato. Ottica opale (codice OP). Fornito completo di cavo di alimentazione lunghezza 2 m. Sorgente luminosa LED. Emissione diretta. Fissaggio a plafone, installazione angolare. Alimentazione 24 volt esterna CAE. Alimentatore non incluso, da ordinare separatamente. A richiesta dimmerabile DALI (cod. DL).

*Extruded anodized aluminum body. Opal polycarbonate louver. Complete with power supply cable 2 m. length. LED light source. Direct light emission. Angular ceiling mounting system. Separate electronic driver 24 Volt CAE. Driver not included, to be ordered separately. On request: dimmable DALI (code DL).*



Lumen	Watt	Lumen Watt Out	Volt	Codice Code	Schermo Diffuser	K	Alimentazione Power Supply	Colore Colour
2350	20	≤ 118	24	<b>HRLMA11</b>	<b>OP:</b> opale opal	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	-: CAE elettronica electronic  <b>DL:</b> DALI	● 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>				

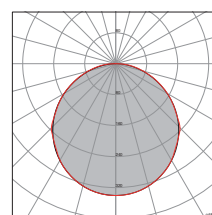


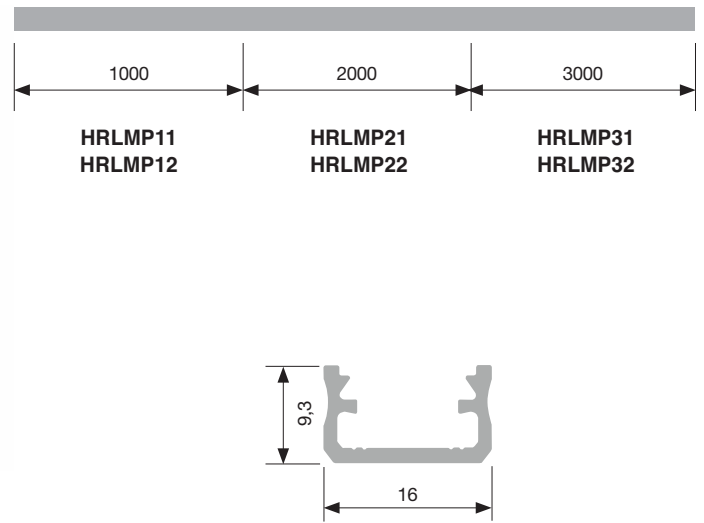
A richiesta | On request

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°





# LUMA P

## SCHERMO/DIFFUSER OP

Sistema LED lineare a plafone o incasso trimless 24 Volt.  
Ceiling or trimless recessed LED linear system 24 Volt.

Corpo in estruso di alluminio anodizzato. Ottica opale (codice OP). Fornito completo di cavo di alimentazione lunghezza 2 m. Sorgente luminosa LED. Emissione diretta. Fissaggio a plafone o incasso trimless. Alimentazione 24 volt esterna CAE. Alimentatore non incluso, da ordinare separatamente. A richiesta dimmerabile DALI (cod. DL).

*Extruded anodized aluminum body. Opal polycarbonate louver. Complete with power supply cable 2 m. length. LED light source. Direct light emission. Ceiling mounting system or trimless recessed. Separate electronic driver 24 Volt CAE. Driver not included, to be ordered separately. On request: dimmable DALI (code DL).*



Lumen	Watt	Lumen Watt Out	Volt	Codice Code	Schermo Diffuser	K	Alimentazione Power Supply	Colore Colour
2350	20	≤ 118	24	<b>HRLMP11</b>	OP: opale opal	WW: 2700 W:3000 X:3500 N:4000	-: CAE elettronica electronic  DL: DALI	● Anodizzato Anodized
4700	40	≤ 118	24	<b>HRLMP21</b>				
7050	60	≤ 118	24	<b>HRLMP31</b>				
1600	14	≤ 115	24	<b>HRLMP12</b>				
3200	28	≤ 115	24	<b>HRLMP22</b>				
4800	42	≤ 115	24	<b>HRLMP32</b>				

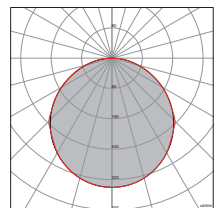


A richiesta / On request

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%

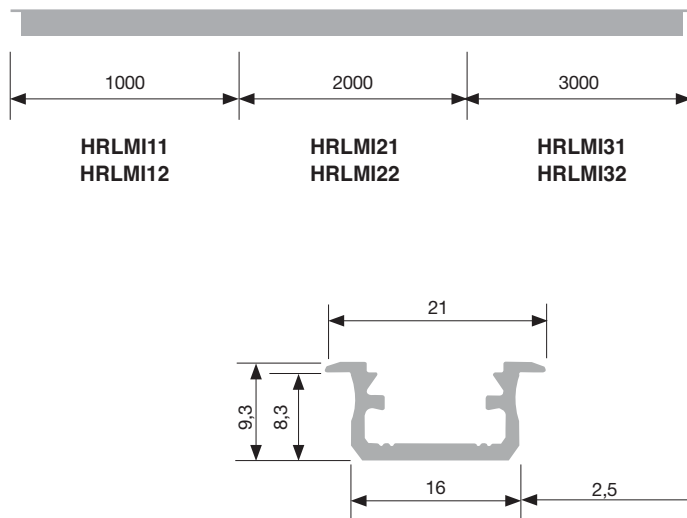
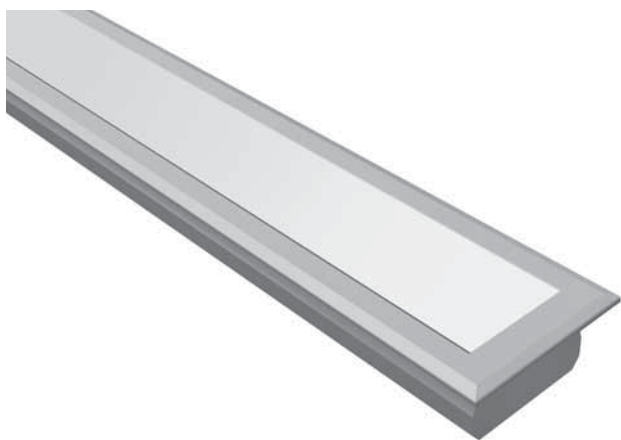
Min and Max room temperature: -10°+40° C.  
Lumen: total output flux with 3000K CRI90;  
Flux variation with CRI85 + 8%, with CRI95 - 8%.  
Watt: system power  
Tolerance ± 10%

Ottica OP 112°



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





# LUMA I

## SCHERMO/DIFFUSER OP

Sistema LED lineare a incasso 24 Volt.  
Recessed LED linear system 24 Volt.

Corpo in estruso di alluminio anodizzato. Ottica opale (codice OP). Fornito completo di cavo di alimentazione lunghezza 2 m. Sorgente luminosa LED. Emissione diretta. Fissaggio a incasso. Alimentazione 24 volt esterna CAE. Alimentatore non incluso, da ordinare separatamente. A richiesta dimmerabile DALI (cod. DL).

*Extruded anodized aluminum body. Opal polycarbonate louver. Complete with power supply cable 2 m. length. LED light source. Direct light emission. Recessed mounting system. Separate electronic driver 24 Volt CAE. Driver not included, to be ordered separately. On request: dimmable DALI (code DL).*



Lumen	Watt	Lumen Watt Out	Volt	Codice Code	Schermo Diffuser	K	Alimentazione Power Supply	Colore Colour
2350	20	≤ 118	24	<b>HRLMI11</b>	<b>OP:</b> opale opal	<b>WW:</b> 2700 <b>W:</b> 3000 <b>X:</b> 3500 <b>N:</b> 4000	-: CAE elettronica electronic  <b>DL:</b> DALI	● 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>				

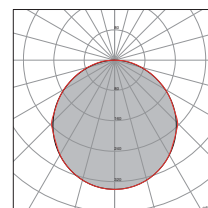


A richiesta | On request

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

**BINARIO DALI**

*TRACK DALI*

**BINARIO DALI INCASSO**

*RECESSED TRACK DALI*

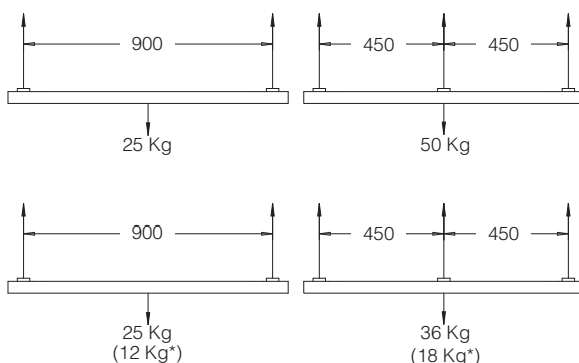
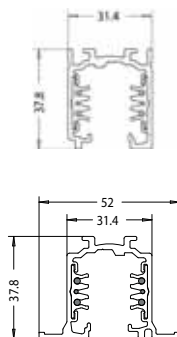
**ALIMENTATORI**

*DRIVERS*

**ACCESSORI**

*ACCESSORIES*





# BINARIO DALI • TRACK DALI

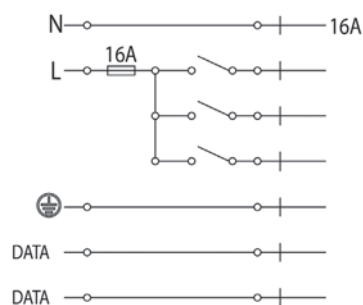
# BINARIO DALI INCASSO • RECESSED TRACK DALI

Binario elettrificato realizzato in profilo di alluminio a sezione quadrata.  
 Il binario si presenta con una linea semplice ma tecnica.  
*Electrified track manufactured in square profile extruded aluminium.*  
*Electrified track has a simple but highly technical shape.*

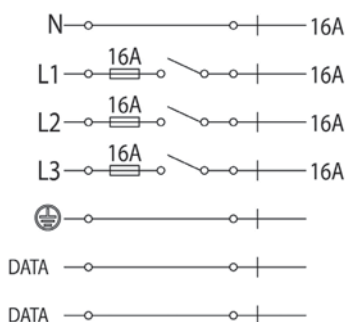
Lunghezza Length	Codice Code	Colore Colour
1000	HR7511/10	● 31: Bianco   white RAL9016 ● 30: Nero   black RAL 9005 ● 42: Anodizzato   anodized
2000	HR7511/20	
3000	HR7511/30	
1000	HR-9000-1	
2000	HR-9000-2	
3000	HR-9000-3	



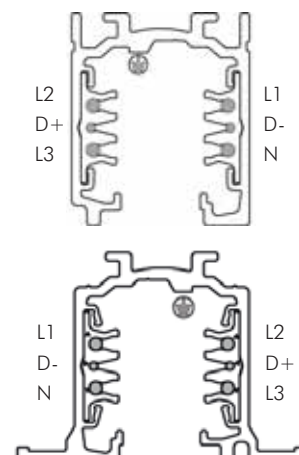
## POSIZIONAMENTO DELL'ALIMENTAZIONE DEI CONDUTTORI DI TERRA. POSITION OF THE SUPPLY OF EARTH CONDUCTORS.















SCHEMA ELETTRICO MONOFASE A TENSIONE DI RETE 230/250V.  
 ONE-PHASE ELECTRIC DIAGRAM FOR MAINS VOLTAGE 230/250V.



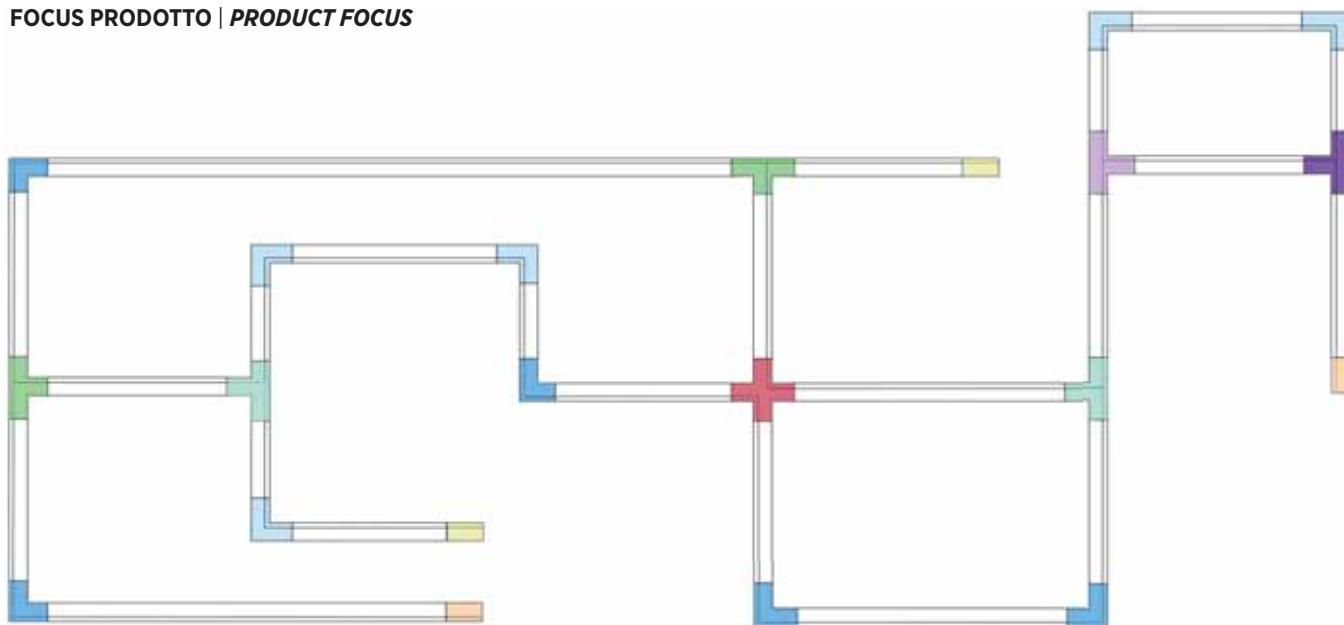
SCHEMA ELETTRICO TRIFASE A TENSIONE DI RETE 230/250V.  
 THREE-PHASE ELECTRIC DIAGRAM FOR MAINS VOLTAGE 230/250V.















	<b>accessori</b> <b>accessories</b>	<b>codice</b> <b>code</b>
	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>

	<b>accessori</b> <b>accessories</b>	<b>codice</b> <b>code</b>
	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

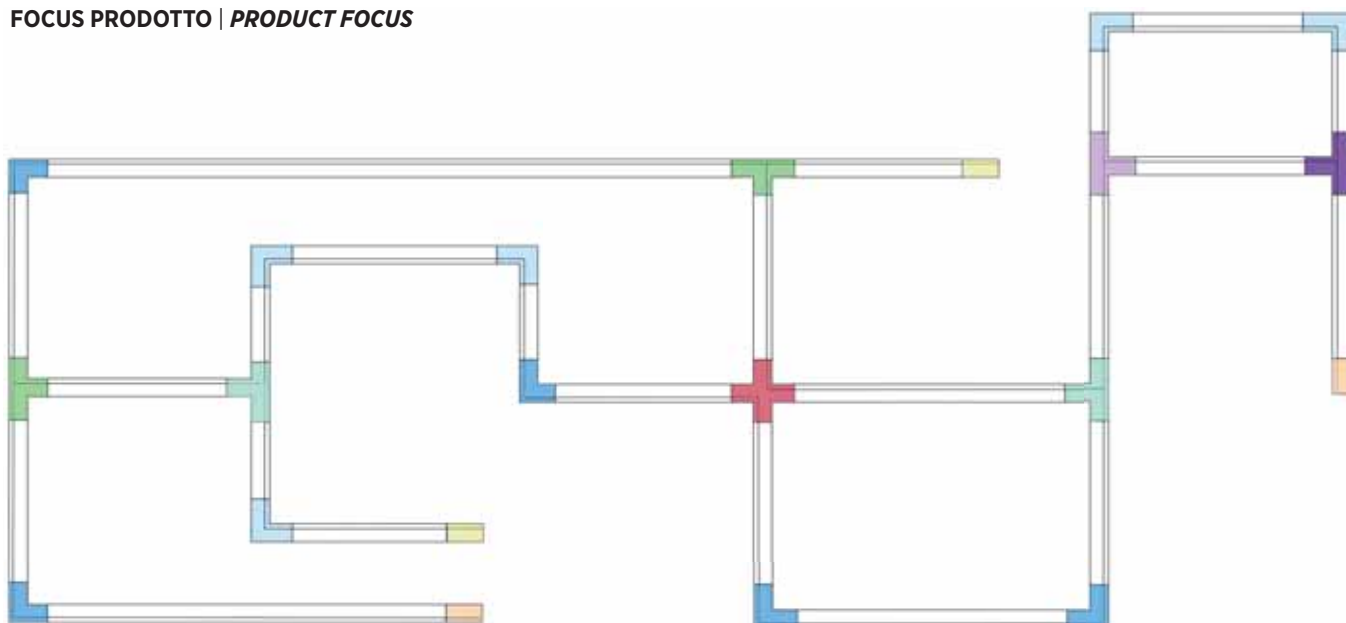




	<b>accessori</b> <b>accessories</b>	<b>codice</b> <b>code</b>
	Adattatore meccanico 6A - carico meccanico 5 Kg. <i>Mechanical electrical adapter 6A - mechanical load 5 Kg.</i>	<b>7601-00</b>
	Adattatore meccanico. <i>Mechanical electrical adapter.</i>	<b>7625-00</b>
	Alimentazione destra. <i>Right power 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>

	<b>accessori</b> <b>accessories</b>	<b>codice</b> <b>code</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>
	Guaina di protezione supplementare. <i>Additional cover strip for track.</i>	<b>S-9000-GP</b>
	Chiusura. <i>End cap.</i>	<b>9004-R</b>
	Copertura da controsoffitto per testata. <i>Recessed cover for end-feed.</i>	<b>S-9001-R/6</b>
	Copertura da controsoffitto per giunto diretto. <i>Recessed cover for middle feed.</i>	<b>S-9010-R/6</b>
	Copertura da controsoffitto per giunto a L. <i>Recessed cover for L-feed.</i>	<b>S-9011-R/6</b>
	Copertura da controsoffitto per giunto a T. <i>Recessed cover for T-feed.</i>	<b>S-9013-R/6</b>
	Copertura da controsoffitto per giunto a X. <i>Recessed cover for X-feed.</i>	<b>S-9017-R/6</b>
	Gancio. <i>Hook.</i>	<b>S-9000/H-B</b>
	Guarnizione per testata di alimentazione. <i>Gasket for end-feed.</i>	<b>S-9000/115</b>
	Tappo di protezione supplementare per asole binario. <i>Additional closure cap for track slot.</i>	<b>S-9000/TP</b>

## 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>HRLMP20</b>	A 178 x B 43 x C 25
230/24	40	<b>HRLMP40</b>	A 208 x B 43 x C 26
230/24	60	<b>HRLMP60</b>	A 208 x B 43 x C 26
230/24	100	<b>HRLMP14</b>	A 240 x B 50 x C 34
230/24	130	<b>HRLMP28</b>	A 220 x B 63 x C 37
230/24	250	<b>HRLMP42</b>	A 265 x B 68 x C 40

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

**IDEALLUX®**

*Lookup*

**COLOMBO**

**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

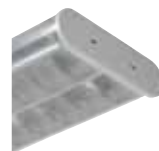
**PLAFONIERE STAGNE AD ALTA PROTEZIONE MECCANICA**  
*HIGH PROTECTION MECHANICAL WATERPROOF FIXTURE*



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



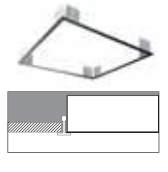
Alg Up Micro



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**

**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



Bombei 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 110-111.  
*For the symbols of the technical details see on pages 110-111.*

**6** Fotometrie.  
*Photometry.*

**7** Informazioni generali.  
*General information.*

**8** 5Y warranty

**9** 60.000 h

**10** 100.000 h

**11** 5Y warranty

**12** HRMCGR1

**13** SP: fascio spot

**14** ST: fascio stretto

**15** MD: fascio medio

**16** LA: fascio largo

**17** CAE

**18** DALI

**19** SB

**20** BL

**21** RR

**22** BF

**23** WT

**24** GK

**25** BT

**26** BLL

**27** EM

**28** HRMCGR2

**29** HRMCGR3

**30** HRMCGR4

**31** HRMCGR5

**32** SP

**33** ST

**34** MD

**35** LA

**36** CAE

**37** DALI

**38** SB

**39** BL

**40** RR

**41** BF

**42** WT

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**46** EM

**47** HRMCGR1

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**749** HRMCGR3

**750** HRMCGR4

**751** HRMCGR5

**752** SP

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# TABELLA CARATTERISTICHE PRODOTTO

## PRODUCT CHARACTERISTICS TABLE

### 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 CAE; 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 CAE.

### 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. Tollerance on indicated values +/- 10%.*

### mA

It is the value of the power used to apply the LED module.

### CODE:

*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 wiring type of the fitting. The standard version has a high frequency (CAE) power supply, special dimmable wirings are identified with: DL - power supply DALI and PD - push-dim power supply. The code relating the type of wiring must be used in the item name otherwise they will be treated as standard high frequency (CAE).*

### 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>
	Indica il grado di protezione degli involucri (vedi pag. 111)	<i>It shows protection degree of the envelopes (see page 111)</i>
	Grado di protezione contro gli impatti meccanici esterni (vedi pag. 111)	<i>Degree of Protection against external mechanical impact (see page 111)</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 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>

# SIMBOLI ED ABBREVIAZIONI

## SYMBOLS AND ABBREVIATIONS



Indica che il prodotto è conforme ai requisiti di sicurezza previsti dalle direttive applicabili previste dal regolamento nell'Unione Europea.

Indicates that the product conforms to safety requirements provided by the applied directives of the regulations in the European Union.



Apparecchio idoneo per l'installazione su mobili.

Fitting suitable for the installation in furniture.



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>IPOX</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>	Totalmente 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 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 According to par. 6.1 of EN 62471: 2008 risk groups (for blue light) are defined as follows:

#### • 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 statunitensi UL94. La prova consiste nel misurare il tempo in cui il provino di materiale plastico montato verticalmente di spessore specificato (3-6mm), continua a bruciare dopo che sia stato investito dalla fiamma di un Bunsen per 10 sec.

Il materiale è classificato VO quando la fiamma si estingue entro 10 secondi.

Il materiale è classificato V1 quando la fiamma si estingue entro 30 secondi senza gocciolamento.

Il materiale è classificato V2 quando la fiamma si estingue entro 30 secondi con gocciolamento.

It indicates the flammability degree of plastic materials according to the USA standards UL94. The test consists in measuring the time it takes a sample of plastic material of a specific thickness (3-6mm), which is vertically mounted, to burn after it has been hit by Bunsen flame for 10 sec.

The material is classified VO when the flame extinguishes within 10 seconds.

The material is classified V1 when the flame extinguishes within 30 seconds without dripping.

The material is classified V2 when the flame extinguishes within 30 seconds with dripping.



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 temperatura 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 vellina 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.



# 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 patenzione 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 od 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 della 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 Giudiziarica 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 if 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.*



# INDICE ANALITICO PRODOTTI

## ANALITICAL PRODUCTS INDEX

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