

# HBL GEN2



HBL L



HBL M

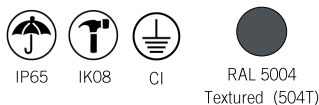


HBL S



## KEY ADVANTAGES

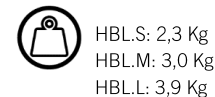
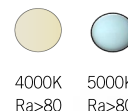
- Up to 3 sizes.
- LED luminaire for industrial areas or sports spaces.
- Latest-generation LED technology.
- Robust: IP65 e IK08.
- Energy Efficient: 150 lm/W.
- Installation using eyebolt.
- With 2 photometric distributions.
- Life span L80B10 50.000h (Ta) 25°C.
- Motion sensor.



## DESCRIPTION

The HBL GEN 2 Carandini luminaire is designed to provide solutions to industrial areas or sports venues that need efficient and uniform lighting, so as to guarantee safe and productive work spaces and competition areas.

Thanks to its compact and lightweight design, it facilitates assembly and installation operations, accelerates heat dissipation and reduces dust accumulation.



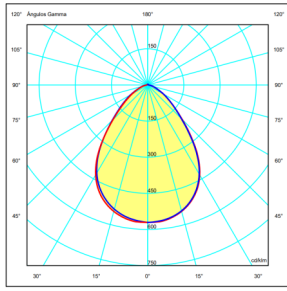
## STANDARD COMPLIANCE

- UNE EN 60598-1
- UNE EN 60598-2-1
- UNE EN 62031
- UNE EN 62384
- UNE 61347-2-13
- UNE EN 62471 e IEC/TR 6247-2
- UNE EN 55015
- UNE EN 61000-3-2
- UNE EN 61000-3-3
- UNE EN 61547
- EN 60598-2-2:1998+A2:2008

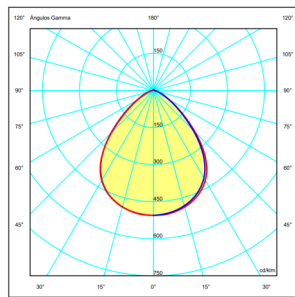
120-277V- 50/60HZ  
L80B10 50.000 h.  
Ta de 25°C

PHOTOMETRIC DISTRIBUTIONS

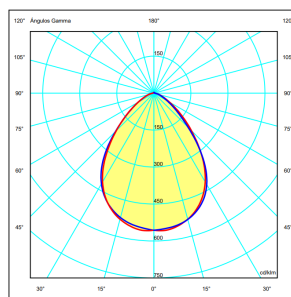
Each size has 2 photometric distributions used for the environments in which this type of luminaire is installed, allowing it to adapt to all needs:



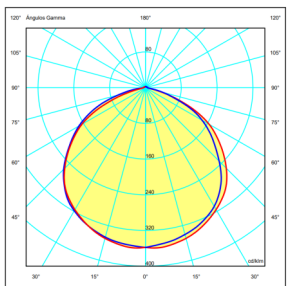
HBL.S. 90°



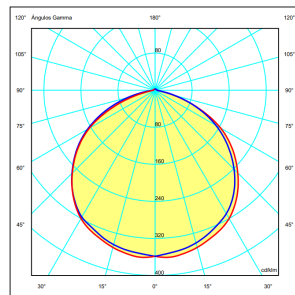
HBL.M 90°



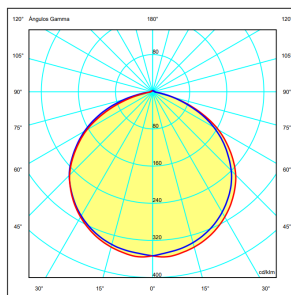
HBL.L 90°



HBL.S. 120°



HBL.M 120°



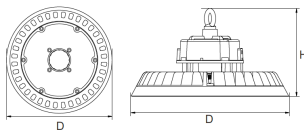
HBL.L 120°

\* La température 4000K va avec 90° et la température 5000K va avec 120°, sauf pour le 15.000lm qui peut aller avec les deux.

DIMENSIONS

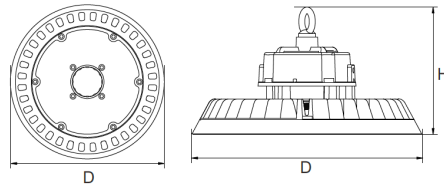
HBL.S

D 254 x H 150 mm



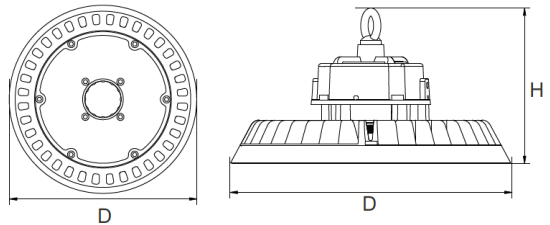
HBL.M

D 309 x H 156 mm



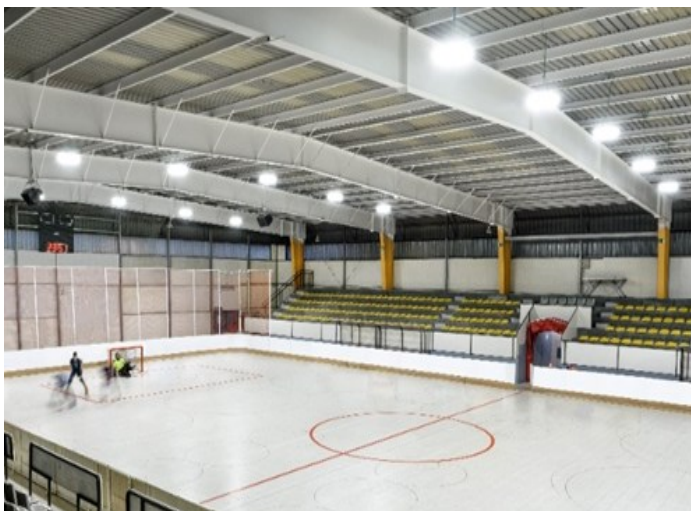
HBL.L

D 354 x H 161 mm



APPLICATIONS

Industrial areas, logistics warehouses, sports pavilions.



TECHNICAL CHARACTERISTICS HBL GEN2

GENERAL CHARACTERISTICS	
Bosy and mounts	Pressure die-cast aluminium
Eyebolt	Galvanised iron
Finished	Black Blue powder coating RAL 5004 Textured (504T).
Cable	1 Meter
General watertightness	As per EN 60529, luminaire is watertight to IP65.
Degree of protection against impacts	In accordance with EN 62262, impact protection class IK08.
Operating temperature	40°C a + 60°C
Estimated life	L80B10 50,000 h. Lumen maintenance values at 25°C are calculated by TM-21 based on LM-80 data and on-site luminaire tests. According to IESNA TM-21-11. Calculated values represent time periods exceeding 6 times the total duration of the IESNA LM-80-08 test for the driver under test.

ELECTRICAL CHARACTERISTICS	
Electrical specification	Class I
Voltage / Frequency	120-277V- 50/60HZ
Power factor	> 0,95
Sensor	Integrated presence sensor. (optional)
Overvoltage protection	6kV

MAINTENANCE AND ASSEMBLY	
Installation and maintenance	It incorporates two cables: one for voltage and one for dimming the luminaire. Both are prepared for on-site installation of the luminaire. To maintain the high efficiency of the luminaire, it is necessary to clean the lens surface from time to time. Use a pH-neutral soap with a cloth to clean and dry it.
Fixation	Eyebolt for installation by means of a cable or chain suspension point. (cable included) (chain not included).
Accessoires	Bracket size S and M. Bracket size L. Presence and light sensor. Sensor remote control (universal).
Weight	HBL.S: 2,3 Kg HBL.M: 3,0 Kg HBL.L: 3,9 Kg

LIGHT CHARACTERISTICS	
Light source	HBL.S: 15.000 lm HBL.M: 22.500 lm HBL.L: 30.000 lm
LED color temperature	4.000K (Neutral White, nw). 5000K (Neutral Cold, cw).
Index of chromatic reproduction (CRI)	CRI>80.
Photometric distributions	Optical distribution with 90 ° and 120°
LED Thermal control	Efficient heat dissipation by conduction and convection thanks to the design of the structure, which incorporates fins so that the heat dissipates correctly, thus increasing the life of the luminaire components.

MANAGEMENT AND CONTROL	
Equipment	AF: LED Regulable 0 - 10V/PWM. RD: LED Dimmable DALI Protocol, via gateway. (0-10V/PWM to DALI) Other equipment on request.

LOGISTICAL INFORMATION

**HBL 100 (S)**  
 Box size: 305 x 305 x 145 mm  
 Box weight: 2,3 kg.  
 Number of boxes: 66 units  
 American base: 1200 x 800 x 1670 mm  
 Stack height: 11 levels  
 Area occupied: 58,1%  
 Volume used: 54,5%  
 Total gross weight: 172 kg

**HBL 150 (M)**  
 Box size: 365 x 365 x 150 mm  
 Box weight: 3 kg.  
 Number of boxes: 66 units  
 American base: 1200 x 800 x 1800 mm  
 Stack height: 11 levels  
 Area occupied: 83,3%  
 Volume used: 80,8%  
 Total gross weight: 218 kg.

**HBL 200 (L)**  
 Box size: 410 x 410 x 155 mm  
 Box weight: 3,9 kg.  
 Number of boxes: 40 units  
 American base: 1200 x 1000 x 1700 mm  
 Stack height: 11 levels  
 Area occupied: 56%  
 Volume used: 51,1%  
 Total gross weight: 176 kg.

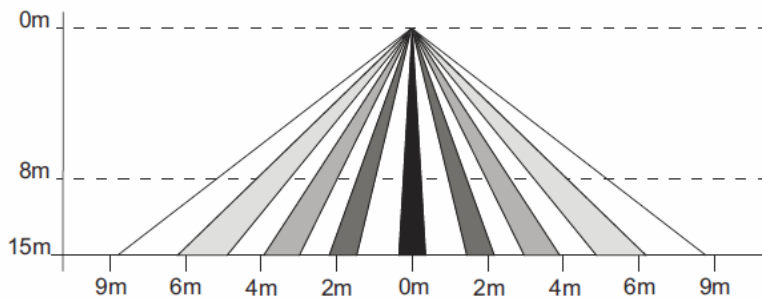
PRESENCE AND LIGHTING SENSOR

With the connection sensor and different function options, such as PIR sensor, wave sensor, Zigbee+ sensor, etc., our HBL series is the ideal solution to reduce stock, speed up stock turnover, save cost and offer more options to the end user. It not only reduces purchasing cost, but also increases customers' competitive advantage.

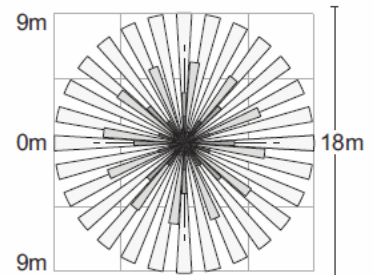


COVER

Cover lateral view



Cover superior view



## DEMONSTRATION

Target time: 10min  
 Set point on: 50lux  
 Set point off: 300lux  
 Standby level: 50%.  
 Standby time: 30mins  
 Background level: 10%.  
 Background time: +∞

### Target time

Refers to the period of time the luminaire remains at 100% illumination after no motion is detected.

### Waiting time

Refers to the period of time the luminaire remains at a low light level before switching off completely in the prolonged absence of people.

### Waiting level

The low light level you wish to have after the maintenance time in the prolonged absence of people.



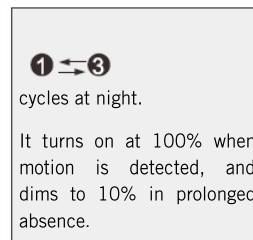
The light comes on at 100% when motion is detected.



The light dims to 50% of the standby level after the standby time.

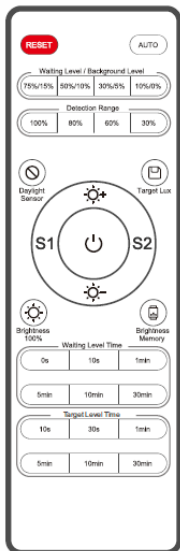


The light remains at a low dimming level of 10% at night.



When the daylight level exceeds the off to light set point, the light will be switched off even when the space is occupied.

## RE - PROGRAMMABLE



The HBL GEN2 series can be fixed up to 15 metres in height, so if you want to adjust the level, performance and sensitivity, it is not a simple task, hence an option of a remote control capable of such operations is provided.

## DALI TRANSFORMER AT 0-10V/PWM.

LF-SCD010C is a non-isolated signal converter, transforming the DALI signal to PWM signal. It conforms to the DALI protocol IEC 62386-101, 102, 103, 207. Its input voltage ranges from 10Vdc to 22.5Vdc. One converter can control one LED driver with strong output PWM signal. It flexibly fits in many different DALI lighting system designs.

### Feature

- Output PWM dimming signal; compatible with PWM dimmable driver; high performance, high reliability
- Dimming range 10%-100% (dim to off)
- DALI dimming function; The logarithmic dimming mode and linear dimming mode can be selected via DALI interface.
- IP67 rating; waterproof casing
- Warranty: 5 yrs (Please refer to the warranty description.)

