

HBA



HBA two bodies



HBA a body

KEY ADVANTAGES

- Latest-generation LED technology.
- Robust: IP44/ IP65.
- Colour temperature: 4,000 K.
- Access to driver via top panel.



4000K
Ra>80

230V-50Hz
L80B10 100.000 h.
Ta de 25°C

DESCRIPTION

The HBA series by Carandini is designed to provide solutions for industrial sites requiring efficient lighting that guarantees a combination of both quality light, and energy and maintenance savings.

It's a flexible solution to different project requirements, with excellent efficiency and colour rendering. And thanks to its compact, lightweight design, it's easy to mount and install

14.000lm - 25.000lm
32.000 - 50.000lm

-5° C a +35°C
25°C a + 35°C

115lm/W
Luminary

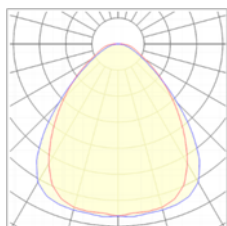
0,25% - 3,5%

5,5 Kg-6,5 Kg.
11 Kg- 12 Kg

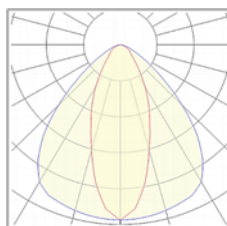
STANDARD COMPLIANCE

- Directiva Europea - 2004/108/CE
- Directiva Europea - 2006/95/CE
- EN 60598-1:2008
- EN 60598-2-22:1998+A2:2008

PHOTOMETRIC DISTRIBUTIONS



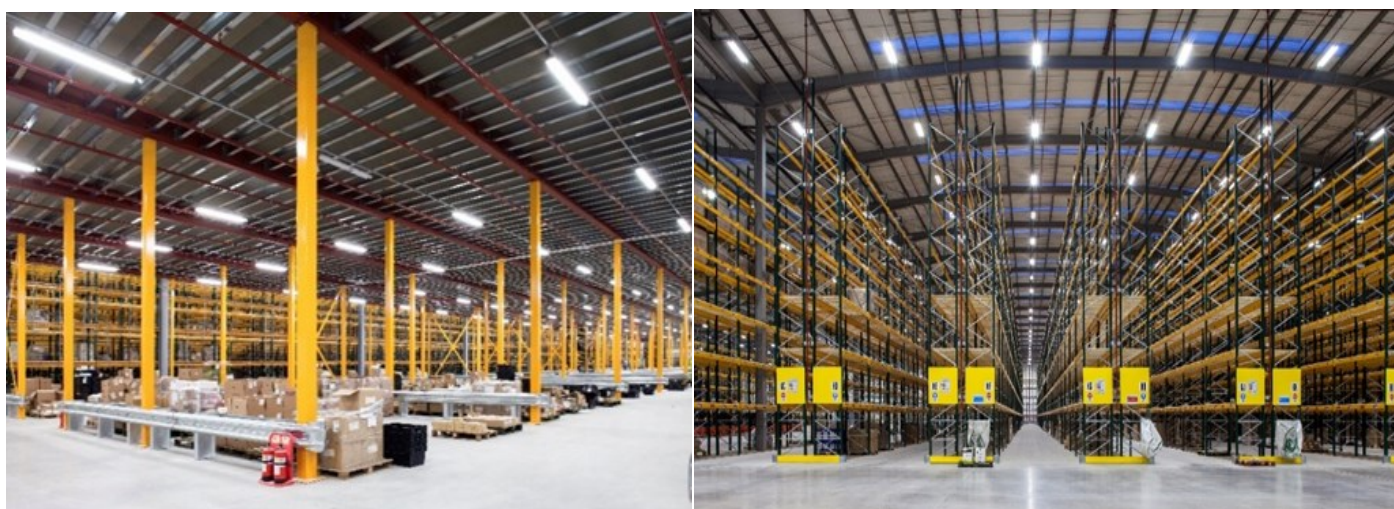
E1-Extensive distribution



R1-Intensive distribution

APPLICATIONS

Hypermarkets, Logistics centers, Open spaces of industrial buildings, Hallways and shelves.



CHARACTERISTICS HBA

GENERAL CHARACTERISTICS	
Materials	One-piece body in cast aluminum. Optics of PMMA (Polymethylmethacrylate).
Finish	RAL 9010 (910M) smooth matte white powder coating. Other colours subject to surcharge, please
Watertightness	As per EN 60529, luminaire is watertight to IP44. IP65 – Model with polycarbonate protection. IP65 models feature injected polymer beads on the inner surface of the top cover and front panel to guarantee the safety and ingress protection of internal components.
Impact protection grade	As per EN 62262, impact protection grade IK10. - IP44-IK06 model - IP65-IK10 model
Operating temperature	+ 5°C to + 35°C IP44 versions and emergency versions. -25°C to + 35°C IP65 versions.
Estimated life	L90B10 to 100,000h. Luminous maintenance values at 25°C are calculated by TM-21 based on LM-80 data and on-site luminaire tests. In accordance with IESNA TM-21-11. Calculated values represent time periods that exceed 6 times the total duration of the IESNA LM-80-08 test for the

ELECTRICAL CHARACTERISTICS	
Electrical class	class I
Input voltage	230V – 50Hz
Power factor	0.93
Electrical protection	The driver incorporates a 4 kV voltage surge protector.

MAINTENANCE AND ASSEMBLY	
Maintenance	Access to driver via top panel of luminaire. Top cover with 4 screws.
Fixation	It has 3 types of fixings: - 4G: Fixation suspended by cable with two anchoring points. Up to 40cm from the ceiling (recommended) - 3S: Fixation suspended by cable with two anchoring points. Up to 3m from the roof. - SM: Fixation on the surface.
Weight	Versions of 1 module (light sources from 14,000 to 25,000lm) 5.5 Kg / 6.5 Kg Emergency versión Versions of 2 modules (light sources from 32,000 to 50,000lm)

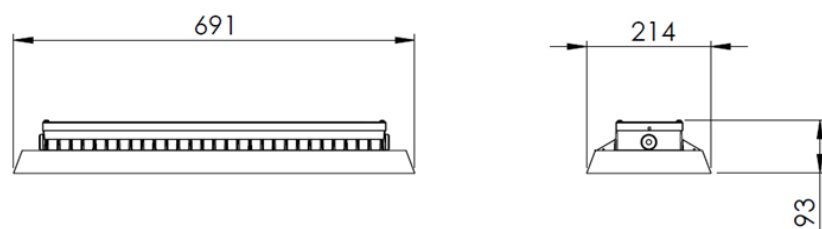
LIGHT CHARACTERISTICS	
Optical distribution	It has two optical distributions. E1: Extensive optical distribution. R1: Intensive optical distribution.
Light source	Luminaire designed for LED technology, with luminous flux range of 14,000 and 50,000 lm colour temperature of 4000 K (neutral white, nw) "RA" 80.
LED technology	Depending on the version, it incorporates 4 or 8 modules of 84 or 168 LEDs each to offer maximum light quality and excellent uniformity.
LED thermal control	Efficient heat dissipation by conduction and convection thanks to channels built into the one-piece body.

MANAGEMENT AND CONTROL	
Gear	LRD driver with Dali protocol regulation.
Emergency	EM3 models with built-in emergency kit. 3 hours' operation at 12% rated luminous flux.

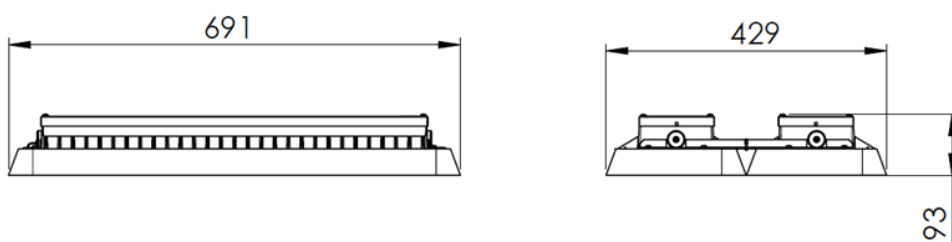
NOTA: Correct data on the date of printing. The company reserves the right to change the value at any time.

DIMENSIONS

HBA 1 body. Light sources from 14,000 to 25,000lm.



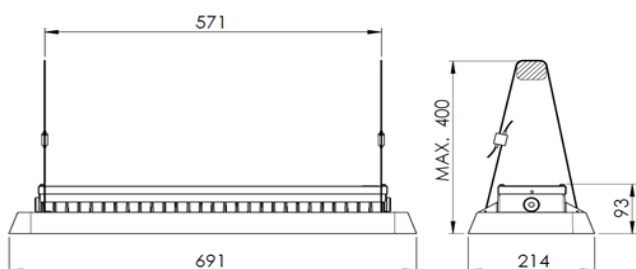
HBA 2 Bodies. Light sources from 32,000 to 50,000lm with extensive optical distribution E1.



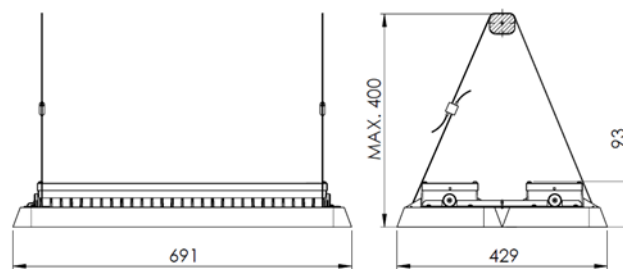
FIXATIONS

Fixation by suspension .4G

1 module version

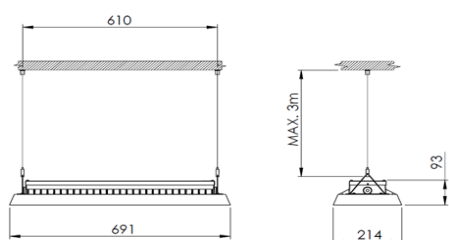


2 module version

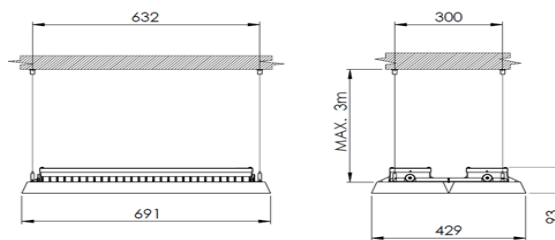


Fixation by suspension .3S

1 module version

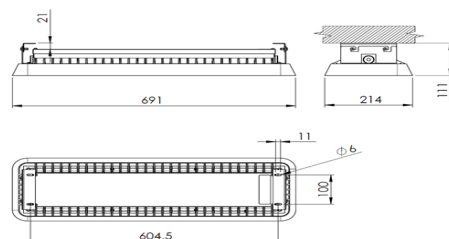


2 module version



Fixation on surface .SM

1 module version



2 module version

