

PEX



KEY ADVANTAGES

- Designed for explosive environments. (2.22)
- Mounting brackets included.
- Up to 127lm/ W.
- Sturdiness: IP66 + IK08
- LED technology ensuring high-quality lighting and energy reduction.
- Lifetime L80B50 75,000 h at Ta 25°C.
- Mounted on the ceiling or suspended.
- Tool-free access.



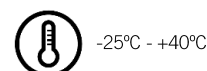
DESCRIPTION

PEX LED is Carandini's LED waterproof luminaire designed for explosive environments. It is a dust- and humidity-proof luminaire with high impact resistance, which make it ideal as a solution for industrial environments, logistics centres, warehouses, corridors and other similar areas.

Moreover, it incorporates some versions prepared to be mounted in environments with extreme temperatures, such as cold stores.



4,000K
CRI>80



STANDARDS / CERTIFICATES

- CE
- RoHS
- UNE-EN 60079-0:2013
- UNE-EN 60079-15:2010
- UNE-EN 60079-31:2014
- Security marking against explosions:
Gas: IIC, IIB, IIA Dust: IIIC, IIIB, IIIA
- Hazardous areas: 2.22

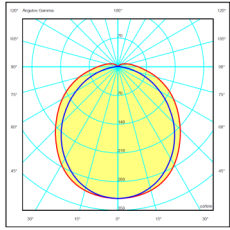
*Test reports from independent ENAC accredited laboratories or equivalent

Measurements taken at an ISO 17025 approved laboratory.
Meets the minimum CEI - IDAE requirements

220 - 240V
50-60 Hz
L80B50 75,000h
Ta 25°C

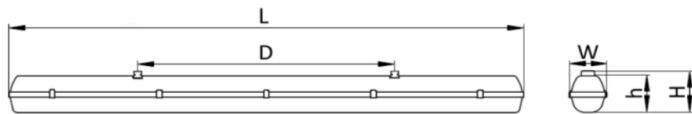
PHOTOMETRIC CONFIGURATIONS

Photometric configuration available for use in various environments where this type of luminaire might be installed, meaning it can be adapted to fit all require-



IS80

DIMENSIONS



SIZE	L (mm)	W (mm)	H (mm)	D (mm)	h
N	662	96 146	100	350	100
S	1272	96 146		700	
M	1572	96 146		940	

APPLICATIONS

Industrial. Designed for the lighting of hazardous areas where there is an explosive environment for a short period.



CLASSIFICATION OF ATEX ZONES

GASES, VAPOURS OR MISTS	DUST	DEFINITION
ZONE 0	ZONE 20	<u>Permanently</u> present explosive atmosphere or for a <u>prolonged period</u> of time, or frequently
ZONE 1	ZONE 21	Working area in which it is likely, <u>under normal conditions</u> of exploitation, the <u>occasional</u> formation of an explosive atmosphere
ZONE 2	ZONE 22	Working area in which it is NOT likely , under normal conditions of exploitation, the formation of an explosive atmosphere in which, if it is formed, it only remains for short periods of time

PEX LED CHARACTERISTICS

GENERAL CHARACTERISTICS	
Materials and finishing	Optic system: shock-resistant opal polycarbonate diffuser Body: polycarbonate, with stainless steel clips Colour: light grey Security marking against explosions: II 3G Ex nA IIC T6 Gc; II 3D Ex tD IIIC T85 C IP66 Dc. Explosion group: Gas: IIC, IIB, IIA Dust: IIIC, IIIB, IIIA. Hazardous areas: 2, 22
Exterior nuts and bolts	Stainless steel (AISI304).
General ingress protec-	IP66 (EN 60598-1 and EN 60529)
Degree of protection against impacts	IK08 (EN 62262)
Operating temperature	-25 to +40°C
Estimated life	L80B50 75,000h at Ta 25°C. Light maintenance values at TM-21 based on LM-80 data.

ELECTRICAL CHARACTERISTICS	
Electrical class	Class I
Input voltage	220 V - 240 V / 50 Hz - 60 Hz
Power factor	> 0.95
Harmonic distortion	< 10%
Control gear	ECG on/off
Integrated sensor	None
Connection	Terminal push-in, 3x2x2.5mm ²
Overvoltage protection	2kV

MAINTENANCE AND ASSEMBLY	
Installation and maintenance	On the ceiling or on the wall (mounting brackets included) or suspended (hooks included), Terminal push-in, 3x2x2.5mm ² . Cable diameter: Ø7-13 mm
Equipped weight	1.30Kg—1.80Kg—2.10Kg 2.60 Kg— 2.80Kg—3.30Kg

LIGHTING CHARACTERISTICS	
Real luminous flux	3,000 lm up to 7,000 lm (23W to 55W).
LED colour temperature	4,000K (Neutral White, nw).
Colour rendering index (CRI)	CRI>80.
LEDs	Different versions are provided with 1 LED strip. Wide beam light distribution.
Optics	Opal diffuser with high transmittance
Photometric configurations	IS80
Light distribution	Direct

MANAGEMENT AND CONTROL	
Equipment	1N: LED 1 level EM3: Emergency 3h S-EM: Without emergency

LOGISTICAL INFORMATION

Size N:

Total weight: 1.43 kg

Quantity included in package: 1

Packaging volume: 0.008747332m³

Quantity of pieces per pallet: 100

Size S:

Total weight: 3.08 kg

Quantity included in package: 1

Packaging volume: 0.024387792m³

Quantity of pieces per pallet: 40

Size M:

Total weight: 3.63kg

Quantity included in package: 1

Packaging volume: 0.030050592m³

Quantity of pieces per pallet: 40