

LED

# 872-ENTRY NB

Industrial dust and waterproof luminaires with LED modules and with narrow beam optics

**Trend-setting lighting in IP66 (option in IP67), quick installation. Specially developed for LED applications.**

## YOUR MAIN BENEFITS:

**Narrow beam luminaire, suitable for high ceilings, with a transparent diffuser and narrow beam optics. Alternative to high bay fixtures, in a more cost-effective performance.**

CE

872-ENTRY NB



IP66



Option:

IP67



1F

3F

PC  
850°C

## FIELD OF APPLICATION:

Thanks to the construction principles of the gasket, the closing system and the diffuser our LED fixtures ensure a high grade of protection (IP66) against dust, contamination and water permeation. (Optionally available in IP67). In accordance with their IP rating they can be widely used to illuminate spaces with dusty and humid environment. When using outdoors, the fittings should be protected against direct sunlight and adverse weather conditions. Under 0°C the application of venting cable gland is necessary, as well as the silicone gasket is recommended.

## TECHNICAL DESCRIPTION AND BENEFITS:

- **Housing available:** in flame retardant **glass fibre reinforced polyester**, in light grey (RAL7035) colour (on request suitable for 850°C glow wire test, too). The glass fibre reinforced polyester has a very good temperature resistance and mechanical stability. Furthermore, it is a good electrical insulator resisting the impacts of several chemicals and weather conditions. Its stability of size and shape at changing temperatures is excellent.
  - **Or in PC** - injection moulded **Polycarbonate** in light grey (RAL7035) colour (suitable for 850°C glow wire test, too). Polycarbonate has high mechanical strength and high heat and shock resistance

- **Diffuser: Available in PC** - injection moulded **transparent Polycarbonate** (high mechanical strength and high heat and shock resistance) or **in Acrylic** - injection moulded **transparent PMMA** (unique non-aging properties, high chemical resistance).

### Further benefits:

- **Extremely high lighting efficiency** through high **light permeability, unique on the market**, up to 90%
- An **excellent light uniformity** through **well-balanced light dispersing** (no shadows)
- **Elimination of the dazzling effect** (no glare)
- **Keeping the usual, well known features of the diffuser** such as chemical and heat resistance, mechanical features, **UV stabilization** etc.
- **Universal width** (no single and twin) and slim **shape simplifies the light calculation.**
- The **gasket** between the diffuser and housing is available in two versions:
  - **Injected silicone-based endless foam**
  - **Non-aging PU (polyurethane) endless foam**
- **Fixing the diffuser to the body:** With tamper-proof (vandal-proof) stainless steel clips.
- **Gear tray (reflector):** White powder coated steel sheet according to **Zhaga** standards or customised.
- **Electrical components:** The adequate power supply is ensured with the electronic driver, that is built into the luminaire.

## Main technical options

Our **transparent** diffuser achieves an **outstanding light transmissivity of up to 93%**. With this great light permeability, it is **an excellent choice for luminaires equipped with LED-modules**.



Narrow beam optics



In order to optimise the thermal management of the luminaire we avoid the direct contact of the gear tray and driver, thus increasing the lifetime of the modules and driver.

With 872-Entry NB - depending on customer requirements - we can reach different levels of luminous flux (lumen). Details see: Technical data.

The gear tray is made of white powder coated steel sheet according to **Zhaga** standards. On request customisation possible.

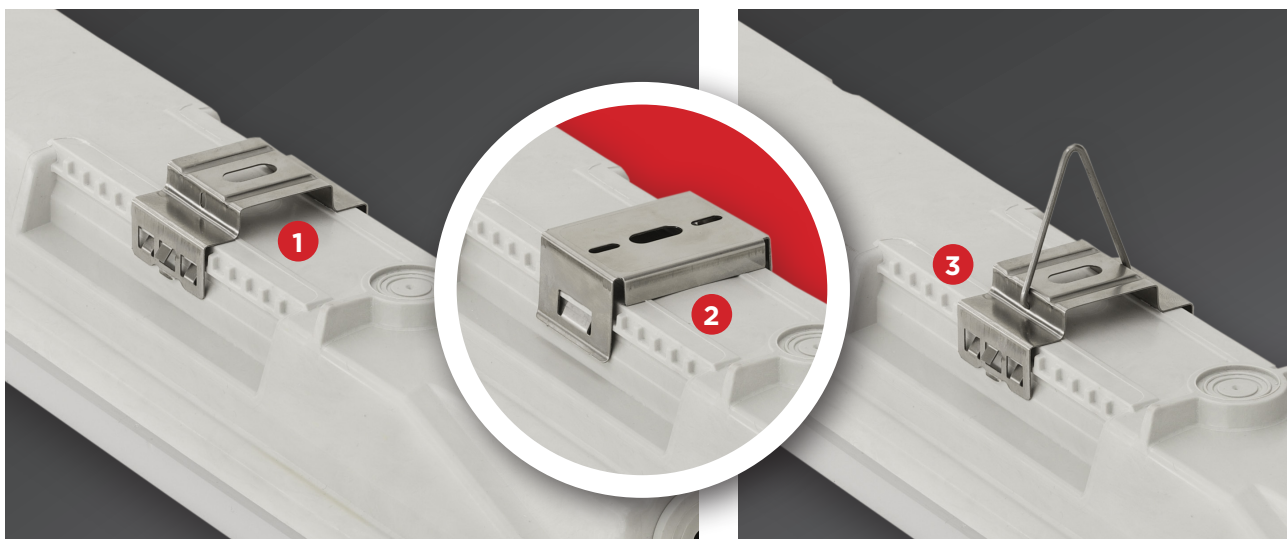
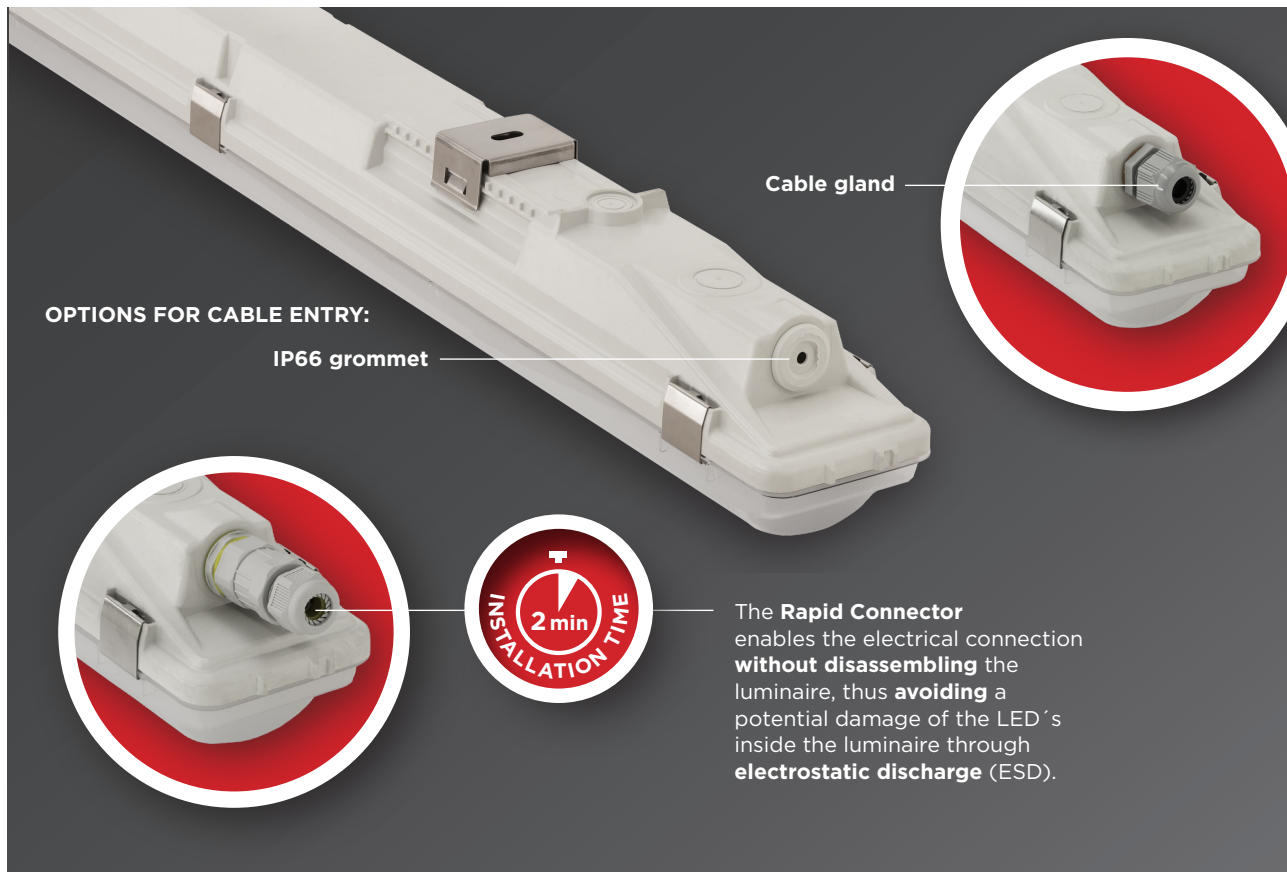


The special **tamper-proof stainless steel clips** cannot be released with bare hands.

The **transparent diffusers** are made of UV-stabilized material, specially **developed for LED** applications.

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The injected **silicone gasket** with enhanced resistance ensures **maximum** chemical and weather **resistance** even under tough conditions. Non-aging polyurethane foam is optionally available.



**Ways of installing** (options):

1. With **standard** (0,4 mm) stainless steel mounting brackets (easy-to-install) onto the **ceiling**.
2. With **strengthened** (0,6 mm) stainless steel mounting brackets. They are easy-to-install onto the **ceiling or the wall** (in horizontal position).
3. **Suspension** on chains, wire ropes etc. with stainless steel mounting brackets and **with hooks**.

**The mounting brackets can be positioned with lateral flexibility for easy installation.**



## Technical data (extract)

Products with a 3-year or optionally with a 5-year warranty	Power (W)	Luminaire total luminous flux - emitted (lm) PC or PMMA	Lum. efficacy (lm/W) PC or PMMA	CRI	Lifetime L70B50 (Ta=35°C)	Lifetime L80B10 (Ta=35°C)	A (mm)	B (mm)	Weight (kg)	EEL
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### Lumnium EU with a DIP switch driver (CCT: 4000K, on request other CCTs are available)

872 4ft (1200mm)	21/27/32/38	3400/4200/4900/5500	145	>80	> 72 000 h*	> 72 000 h*	1185	700±78	1,5	D
872 5ft (1500mm)	28/36/43/51	4600/5600/6400/7400	145	>80	> 72 000 h*	> 72 000 h*	1477	1000±78	1,8	D

### Lumnium EU PRO with a DIP switch driver (CCT: 4000K, on request other CCTs are available)

872 4ft (1200mm)	18/23/27/32	3200/3900/4600/5400	170	>80	> 102 000 h	> 102 000 h	1185	700±78	1,5	C
872 5ft (1500mm)	25/30/36/43	4300/5400/6400/7400	170	>80	> 102 000 h	> 102 000 h	1477	1000±78	1,8	C

\* The application of through-wiring may influence the Ta. Max.



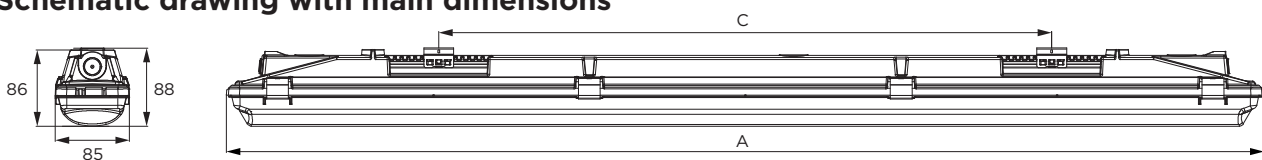
Further options:



On request:



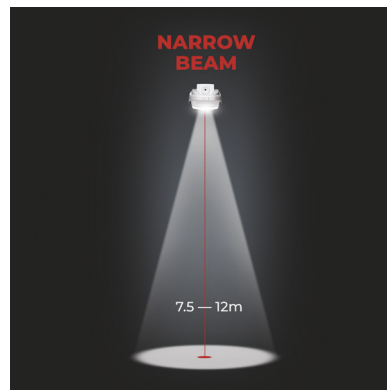
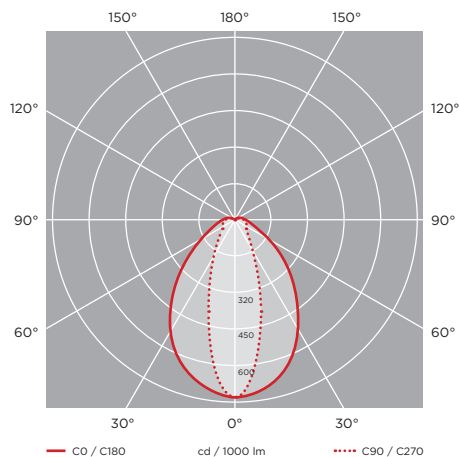
## Schematic drawing with main dimensions



## Photometric curves:

872-Entry NB, 5ft (1500mm), Lumnium EU, 50W, 7000lm, PMMA

With the use of transparent diffuser a 40° narrow beam radiation angle is achievable for high bay applications.



Luminaire customisation and the options of advanced controls are presented on page 5