

LED

870-INSPIRE AIR

High-end dust and waterproof luminaires for outdoor with LED modules.

A professional solution especially for outdoor applications. 870-Inspire Air withstands the impact of adverse weather conditions.

YOUR MAIN BENEFITS:

Enhanced weather resistance (sunlight, rain, wind). Suitable for outdoor applications with errorfree functioning. Gear tray integrated into the diffuser. Quick installation even without disassembling the luminaire.



870-INSPIRE AIR

IP66

FIELD OF APPLICATION:

Thanks to the construction principles of the gasket, the closing system and the diffuser our fixtures ensure a high grade of protection (IP66) against dust, contamination and water permeation. In accordance with their IP grade they can be used widely to illuminate areas with dusty and humid environment.

Thanks to its enhanced weather resistance, **870-Inspire Air** is especially suitable for applications, where **errorfree functioning in outdoor conditions** is desired.

TECHNICAL DESCRIPTION AND BENEFITS:

■ **Housing:** Available flame retardant **GRP** - glass fibre reinforced polyester in light grey (RAL7035) colour. 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.

■ **Diffuser:** is available in injection moulded **opalised Acrylic PMMA** with unique non-aging properties, extremely high light permeability and well-balanced light dispersing. The diffusers are designed with respect to their optical characteristics and are UV resistant. Main advantages: **weather resistance** and extremely high light efficiency.

Further benefits:

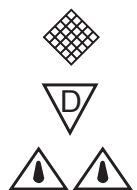
- **Extremely high light transmissivity (up to 90%)**
- **Homogenous, well-balanced light dispersing** (no shadows)
- Keeping the usual, well known features of the diffuser such as **chemical and heat resistance, mechanical features, UV stabilization** etc.
- **Universal width** (no single and twin) simplifies the light calculation

■ The **gasket** between the diffuser and housing is **Injected endless silicone** foam.

■ **Fixing the diffuser to the body:** With **stainless steel** clips.

■ **Gear tray** (reflector): **The gear tray is integrated into the diffuser** thus enabling a **cost-efficient and user-friendly installation** even **without disassembling** the luminaire. White powder coated steel sheet according to **Zhaga** standards or customized.

■ **Electrical components:** The adequate power supply is ensured through electronic driver.



Option:



Main technical options

Our new **opalised** diffuser made of UV-stabilized material achieves an **outstanding light transmissivity up to 90%**. This great light permeability offers **high efficacy (up to 160 lm/W)** emitted from the luminaire.



870-INSPIRE AIR

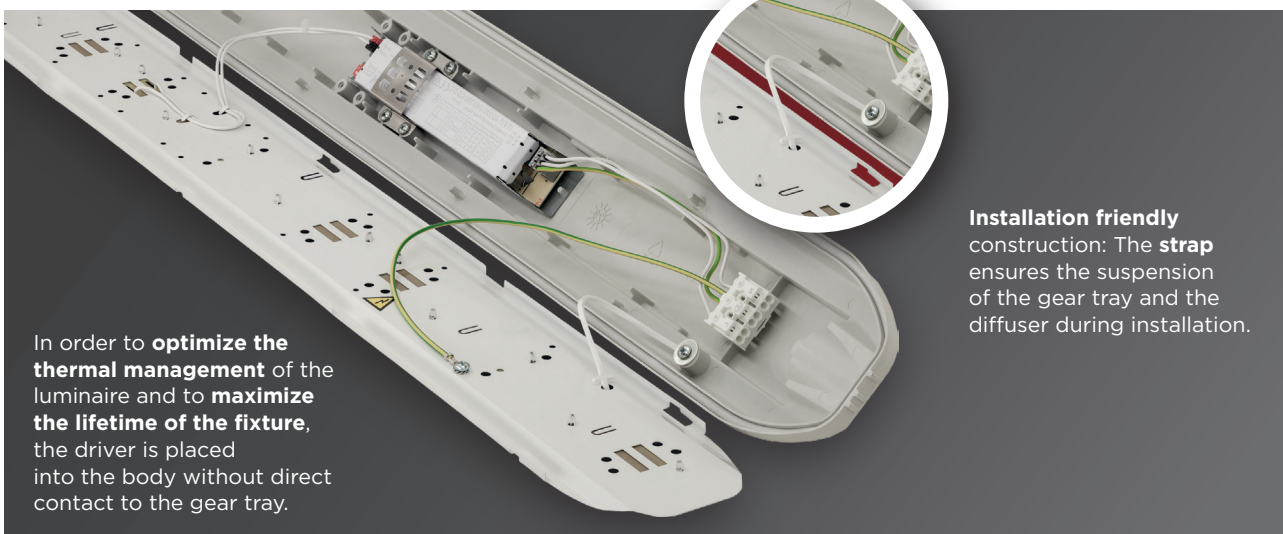


The **stainless steel clips** stay in their position during installation and can be released by bare hands.

Compatible with all optional accessories and smart solutions!



To protect the **LED board**, the **gear tray** is integrated into the diffuser thus enabling a **cost-efficient and user-friendly quick installation** even without disassembling the luminaire.



In order to **optimize the thermal management** of the luminaire and to **maximize the lifetime of the fixture**, the driver is placed into the body without direct contact to the gear tray.

Installation friendly construction: The **strap** ensures the suspension of the gear tray and the diffuser during installation.

The **gear tray**, made of white powder coated steel sheet according to **Zhaga** standards, is **integrated into the diffuser**. With **870-Inspire Air** - depending on customer requirements - we can reach different levels of luminous flux from 2700 **up to 14000 lumen** with maximum of **efficacy 163 lm/W**. For more details please see technical data.

The injected **silicone gasket** with enhanced resistance ensures **maximum** chemical and weather **resistance** even under tough conditions. This endless foam sealing ensures the high IP protection up to IP67.



OPTIONS FOR CABLE ENTRY:

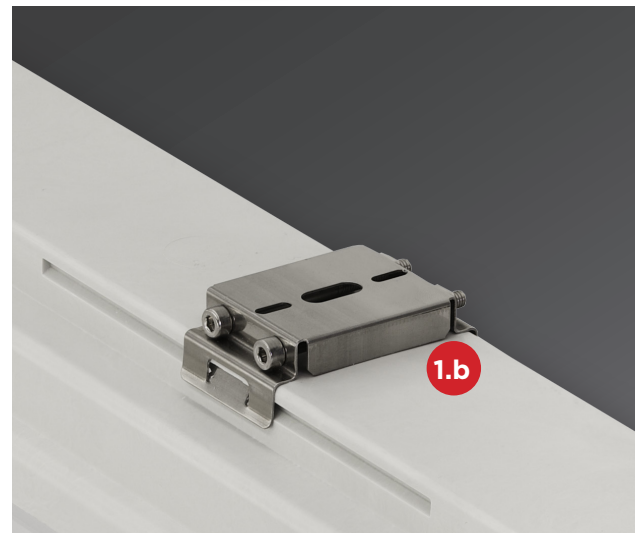
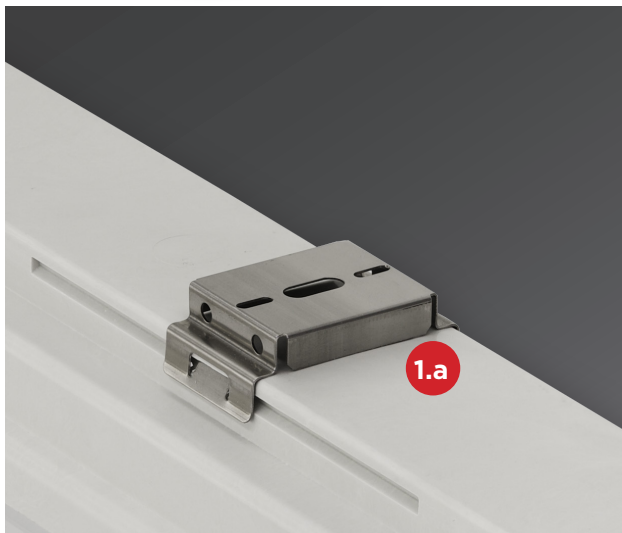
LESS THAN 2 min INSTALLATION TIME

Venting cable gland

Comes with **venting cable gland** in order to prevent the build-up of moisture inside the luminaire thus avoiding its damage.

The **Rapid Connector** enables the electrical connection **without disassembling** the luminaire.

The **venting plug** is a pressure equalizer instead of the venting cable gland in case of the application of a rapid connector



Ways of installing (options):
 With **strengthened** (0,6 mm) stainless steel mounting brackets.
 1.a They are easy-to-install onto the **ceiling or the wall** (in horizontal position).

1.b In case of vertical positioning, **special screws** keep the mounting brackets tight avoiding the luminaire from sliding.

Easy installation: Adjustable distance of the mounting brackets (they can be positioned laterally on the housing)

Technical data (extract)

Products with a 2-year warranty	Power (W)	Luminaire total luminous flux - emitted (lm) PMMA	Lum. efficacy (lm/W) PMMA	CRI	Lifetime L70B50 (Ta=35°C)	Lifetime L80B10 (Ta=35°C)	A (mm)	B (mm)	Weight (kg)	EEL
Lumnium EU with a DIP switch driver (CCT: 4000K, on request other CCTs are available)										
870 4ft (1200mm)	21/25/29/35	3100/3800/4300/5000	143	>80	> 72 000 h*	> 72 000 h*	1174	700 +/- 76	2	D
870 5ft (1500mm)	24/31/37/44	3800/4700/5500/6300	143	>80	> 72 000 h*	> 72 000 h*	1454	980 +/- 76	2,2	D
870 4ft (1200mm)	21/27/32/38	3300/4100/4800/5400	143	>80	> 72 000 h*	> 72 000 h*	1174	700 +/- 76	2	D
870 5ft (1500mm)	28/36/43/51	4500/5500/6300/7300	143	>80	> 72 000 h*	> 72 000 h*	1454	980 +/- 76	2,2	D
Lumnium EU PRO with a DIP switch driver (CCT: 4000K, on request other CCTs are available)										
870 4ft (1200mm)	20/25/31/36	3400/4100/5000/5700	158	>80	> 102 000 h	> 102 000 h	1174	700 +/- 76	2	C
870 5ft (1500mm)	21/26/32/37	3500/4400/5200/6000	162	>80	> 102 000 h	> 102 000 h	1454	980 +/- 76	2,2	C
870 4ft (1200mm)	18/23/27/32	3100/3800/4500/5300	165	>80	> 102 000 h	> 102 000 h	1174	700 +/- 76	2	C
870 5ft (1500mm)	25/30/36/43	4200/5300/6300/7300	170	>80	> 102 000 h	> 102 000 h	1454	980 +/- 76	2,2	C
Lumnium EU HF (CCT: 4000K, on request other CCTs are available)										
870 4ft (1200mm)	61	8300	136	>80	> 72 000 h	> 72 000 h	1174	700 +/- 76	2	D
870 5ft (1500mm)	77	10400	136	>80	> 72 000 h	> 72 000 h	1454	980 +/- 76	2,2	D
Philips Fortimo HV6 HF 3klm/ft (CCT: 4000K, on request other CCTs are available)										
870 4ft (1200mm)	74	11300	152	>80	> 100 000 h	> 64 000 h	1174	700 +/- 76	2	C
870 5ft (1500mm)	92	14000	152	>80	> 100 000 h	> 64 000 h	1454	980 +/- 76	2,2	C

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



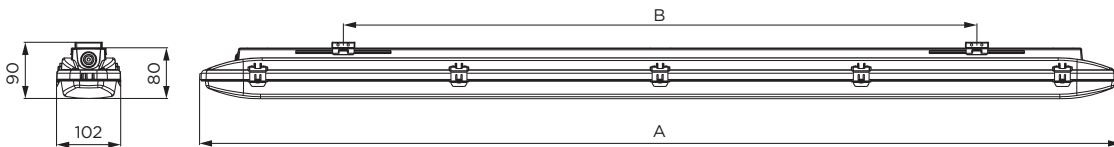
Further options:



On request:

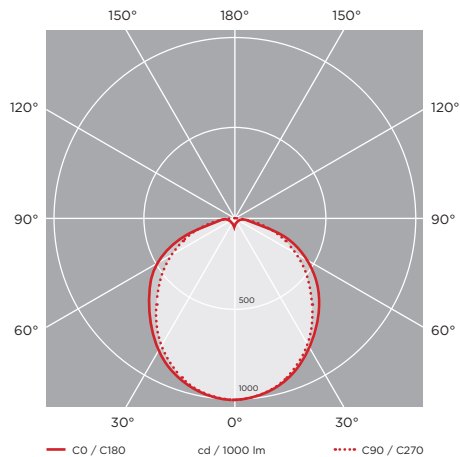


Schematic drawing with main dimensions

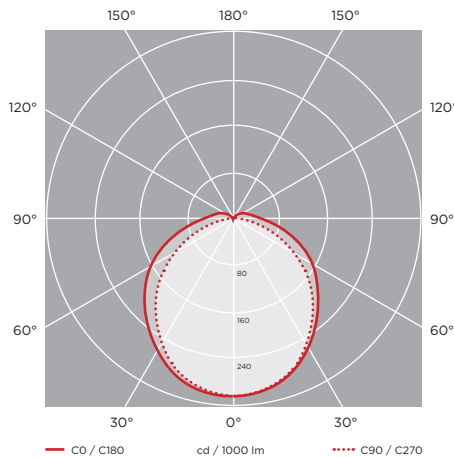


Photometric curves:

870-Inspire Air, 4ft (1200mm),
Lumnium EU, 24W, 3500lm, PMMA



870-Inspire Air, 5ft (1500mm),
Lumnium EU HF 77W, 10400lm, PMMA



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