

LED

CE



870-INSPIRE AIR

IP66



Option:



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.



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 silicone-based** endless 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 with the electronic driver.

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.



LED

870-INSPIRE AIR

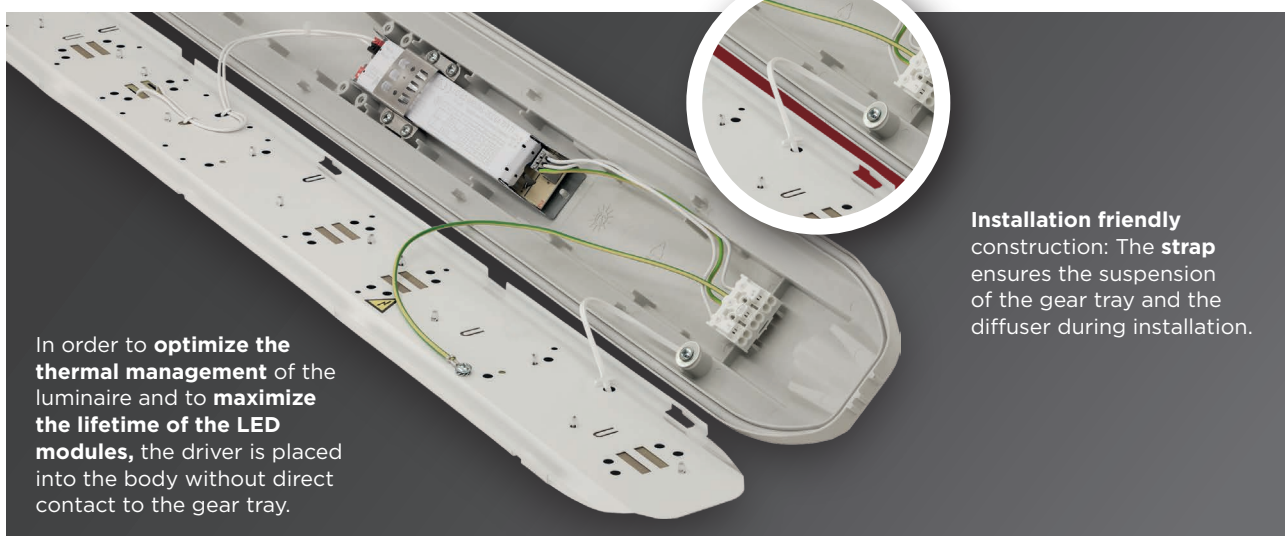


The **stainless steel clips** stay in their position during installation and can be released by bare hands.

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.

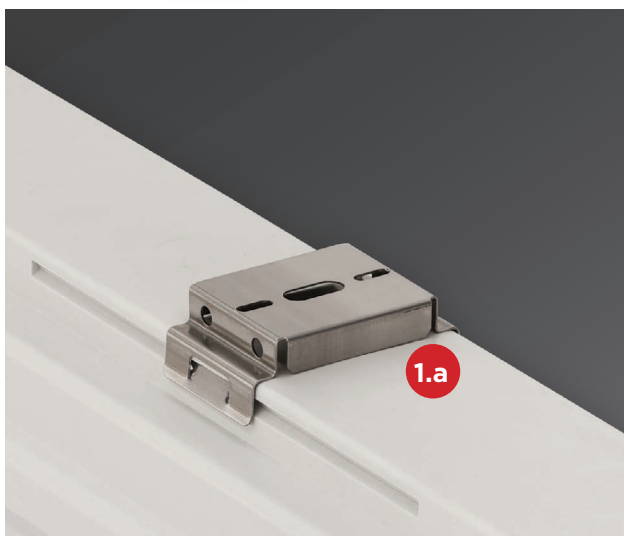
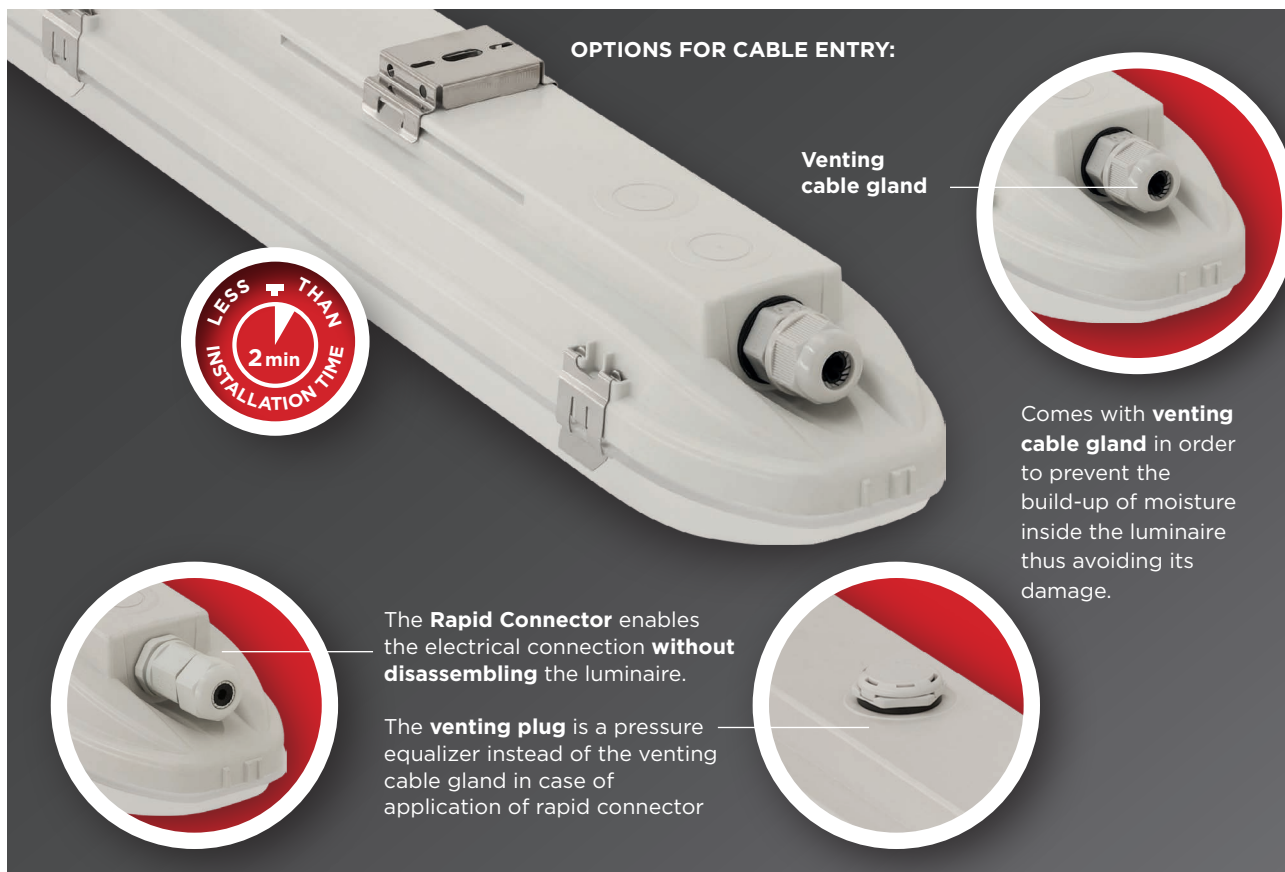


In order to **optimize the thermal management** of the luminaire and to **maximize the lifetime of the LED modules**, the driver is placed into the body without direct contact to the gear tray.

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 **efficacy up to 160 lm/W**. For more details please see technical data.

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



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)

The *EPREL database is available at <https://eprel.ec.europa.eu/screen/product/lightsources/xxxxxxx>
(where the xxxxxx has to be substituted by the reference number given in the last column)

Products with a 2-year warranty	Power (W)	Lum. total luminous flux emitted (lm)		Lum. efficacy (lm/W)		CCT (Kelvin)	CRI	Lifetime L80B10 (Ta=45°C)	Lifetime L90B10 (Ta=45°C)	A (mm)	B (mm)	Weight (kg)	EEI	Light source* (reference)
		PMMA	PC	PMMA	PC									

Lumnium EU 130 with Osram driver

870 4ft (1200mm)	24	3500	n.a.	145	n.a.	4000	>80	>72 000 h**	>34 000 h**	1174	700±76	2	D	802364
870 5ft (1500mm)	30	4500	n.a.	149	n.a.	4000	>80	>72 000 h**	>34 000 h**	1454	1000±76	2,2	D	734821
870 4ft (1200mm)	37	5200	n.a.	140	n.a.	4000	>80	>72 000 h**	>34 000 h**	1174	700±76	2	D	734862
870 5ft (1500mm)	51	7000	n.a.	137	n.a.	4000	>80	>72 000 h**	>34 000 h**	1454	1000±76	2,2	D	734813

Lumnium EU PRO 160 with Osram driver

870 4ft (1200mm)	22	3450	n.a.	157	n.a.	4000	>80	>50 000 h	>72 000 h	1174	700±76	2	C	803878
870 5ft (1500mm)	27	4200	n.a.	157	n.a.	4000	>80	>50 000 h	>72 000 h	1454	1000±76	2,2	C	734800
870 4ft (1200mm)	32	5000	n.a.	158	n.a.	4000	>80	>50 000 h	>72 000 h	1174	700±76	2	C	803933
870 5ft (1500mm)	44	7000	n.a.	160	n.a.	4000	>80	>50 000 h	>72 000 h	1454	1000±76	2,2	C	734760

Lumnium EU PRO 160 with Osram DIP Switch driver

870 4ft (1200mm)	19	3000	n.a.	162	n.a.	4000	>80	>102 000 h	>74 000 h	1185	700±78	2	C	803933
	23	3700												
	27	4500												
	32	5200												
870 5ft (1500mm)	25	4100	n.a.	163	n.a.	4000	>80	>102 000 h	>74 000 h	1477	1000±78	2,2	C	734760
	32	5200												
	38	6200												
	44	7200												

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

Products with a 2-year warranty	Power (W)	Lum. total luminous flux emitted (lm)		Lum. efficacy (lm/W)		CCT (Kelvin)	CRI	Lifetime L80B10 (Ta=35°C)	Lifetime L90B10 (Ta=35°C)	A (mm)	B (mm)	Weight (kg)	EEI	Light source* (reference)
		PMMA	PC	PMMA	PC									

Lumnium EU PRO 140 HF with Philips driver

870 4ft (1200mm)	61	8300	n.a.	136	n.a.	4000	>80	>72 000 h	>34 000 h	1174	700±76	2	D	734708
870 5ft (1500mm)	77	10400	n.a.	135	n.a.	4000	>80	>72 000 h	>34 000 h	1454	1000±76	2,2	D	734742

Philips Fortimo HV6

870 4ft (1200mm)	60	8800	n.a.	146	n.a.	4000	>80	>64 000 h	>50 000 h	1174	700±76	2	C	893529
870 5ft (1500mm)	75	11000	n.a.	146	n.a.	4000	>80	>64 000 h	>50 000 h	1454	1000±76	2,2	C	893525 893529

Philips Fortimo HV6 HF 3klm/ft

870 4ft (1200mm)	74	11300	n.a.	152	n.a.	4000	>80	>64 000 h	>50 000 h	1174	700±76	2	C	893537
870 5ft (1500mm)	92	14000	n.a.	152	n.a.	4000	>80	>64 000 h	>50 000 h	1454	1000±76	2,2	C	893533 893537

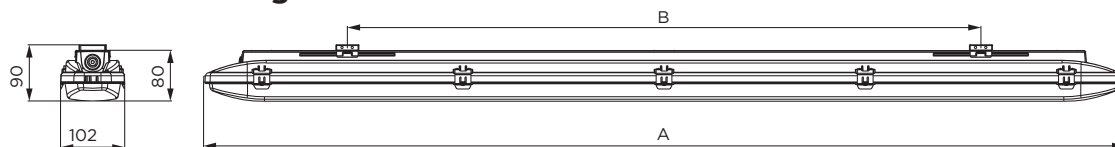
Further options:



On request:

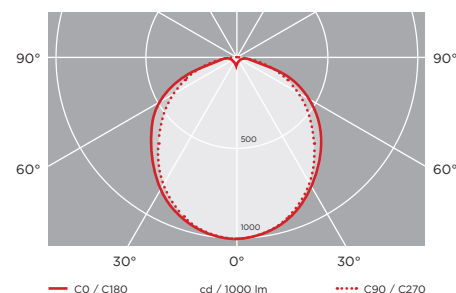


Schematic drawing with main dimensions

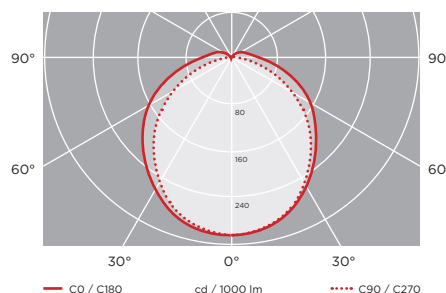


Photometric curves:

870-Inspire Air, 4ft, Lumnium EU 130, 24W, 3500lm, PMMA



870-Inspire Air, 5ft, Lumnium EU PRO 140 HF, 77W, 10400lm, PMMA



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