



# 870-INSPIRE NB

High-end dust and waterproof luminaires with LED modules and with narrow beam optics.

**Synergy of art and technology. Perfect choice for high ceilings!**

### YOUR MAIN BENEFITS:

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



870-INSPIRE NB



IP66



Option:

IP67



### FIELD OF APPLICATION:

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

When using outdoors, the fittings should be protected against direct sunlight and adverse weather conditions. Under 0°C the application of venting plug or venting cable gland is necessary, as well as the silicone gasket is recommended.

### TECHNICAL DESCRIPTION AND BENEFITS:

■ **Housing:** Available in flame retardant **GRP** - glass fibre reinforced polyester (on request suitable for 850°C glow wire test too), in light grey (RAL7035) colour. Glass fibre reinforced polyester has very good temperature resistance, mechanical stability, furthermore it is a good electrical insulator, it resists the impacts of several chemicals and the impacts of weather conditions. Its stability of size and shape at changing temperatures is excellent.

**Or also available in** flame retardant **injection moulded polycarbonate (PC)** (suitable for 850°C glow wire test), in light grey (RAL7035) colour. This material has very high mechanical strength and allows us to reach an excellent 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). With the use of transparent diffuser a 40° narrow beam radiation angle is achievable for high bay applications.

#### Further benefits:

- **Extremely high light transmissivity (up to 93%)**
- **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 the housing is available in two versions:

- **Injected silicone-based endless foam**
- **Non-aging PU** (polyurethane) **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, the LED modul mounting positions according to Zhaga standards or customized.

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

## Main technical options

Our **transparent** diffuser made of UV-stabilized material achieves an **outstanding light transmissivity up to 93%**. This great light permeability offers **high efficacy (up to 157 lm/W)** emitted from the luminaire.



Narrow beam optics



**870-INSPIRE NB**

In the interest of **LED board protection** the **gear tray is integrated into the diffuser** thus enabling a **cost efficient and user-friendly quick installation** even without disassembling the luminaire.

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

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 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 NB - depending on customer requirements - we can reach different levels of luminous flux **up to 14500 lumen** with maximum **efficacy of 157 lm/W**. Details see: Technical data.

The injected **silicon-based 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:**

IP66 grommet

LESS THAN 2 min INSTALLATION TIME

Cable gland

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

**Ways of installing (options):**

1.a

2

1.b

- 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, **position fixing screws** keep the mounting brackets tight avoiding the luminaire from sliding.

2. **Suspension** on chains, wire ropes etc. with stainless steel mounting brackets and **with hooks**.

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

## Technical data (extract)

\* EPREL data base is available at <https://eprel.ec.europa.eu/screen/product/lightsources/xxxxxxx> (where the xxxxxx have to be substituted by the reference number given in the last coloumn)

Products with 5 years warranty	Power (W)	Lum. total luminous flux emitted (lm)		Lum. efficacy (lm/W)		CCT (Kelvin)	CRI	Lifetime L70B50 (Ta=35°C)	Lifetime L80B10 (Ta=35°C)	A (mm)	B (mm)	Weight (kg)	EEI	Light source* (reference)
		PMMA	PC	PMMA	PC									
<b>Lumnium EU 130 with Osram driver</b>														
870 4ft (1200mm)	37	5400	5000	146	135	4000	>80	>72 000 h**	>50 000 h**	1174	700±76	2	D	734862
870 5ft (1500mm)	51	7300	6800	143	133	4000	>80	>72 000 h**	>50 000 h**	1454	1000±76	2,2	D	734813
<b>Lumnium EU PRO 160 with Osram driver</b>														
870 4ft (1200mm)	32	5200	4800	163	150	4000	>80	>72 000 h	>50 000 h	1174	700±76	2	C	803933
870 5ft (1500mm)	44	7300	6800	166	155	4000	>80	>72 000 h	>50 000 h	1454	1000±76	2,2	C	734760
<b>Lumnium EU PRO 140 HF with Philips driver</b>														
870 4ft (1200mm)	61	8600	8000	141	131	4000	>80	>72 000 h	>50 000 h	1174	700±76	2	D	734708
870 5ft (1500mm)	77	10900	10100	142	131	4000	>80	>72 000 h	>50 000 h	1454	1000±76	2,2	D	734742
<b>Philips Fortimo HV6 HF</b>														
870 4ft (1200mm)	60	9100	8400	152	140	4000	>80	>100 000 h	>64 000 h	1174	700±76	2	C	893529
870 5ft (1500mm)	75	11400	10600	152	141	4000	>80	>100 000 h	>64 000 h	1454	1000±76	2,2	C	893525 893529
870 4ft (1200mm)	74	11500	10700	155	145	4000	>80	>100 000 h	>64 000 h	1174	700±76	2	C	893537
870 5ft (1500mm)	92	14500	13500	158	147	4000	>80	>100 000 h	>64 000 h	1454	1000±76	2,2	C	893533 893537
<b>Lumnium EU 160 with Osram DIP Switch driver</b>														
870 4ft (1200mm)	19	3100	2900	165	150	4000	>80	>72 000 h	>50 000 h	1185	700±78	2	C	803933
	23	3800	3500											
	27	4700	4400											
	32	5200	4800											
870 5ft (1500mm)	25	4200	3900	165	159	4000	>80	>72 000 h	>50 000 h	1477	1000±78	2,2	C	734760
	32	5400	5000											
	38	6400	5900											
	44	7500	7000											

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

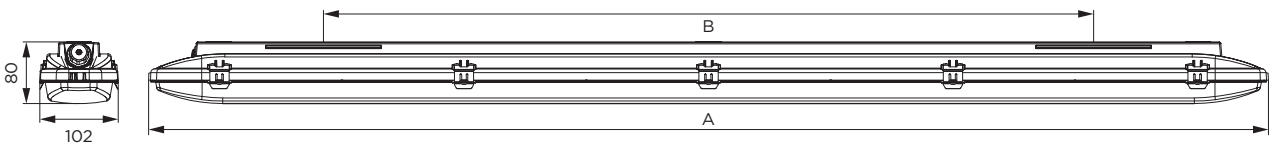
Further options:



On request:



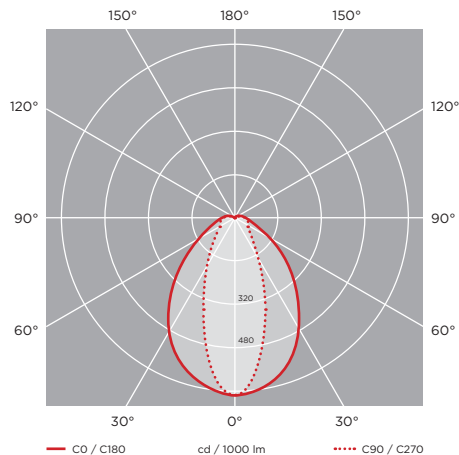
## Schematic drawing with main dimensions



## Photometric curves:

870-Inspire NB, 5ft, PMMA, Philips Fortimo, HV6HF, 92W, 14 500 lm

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

