

870-INSPIRE NB

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

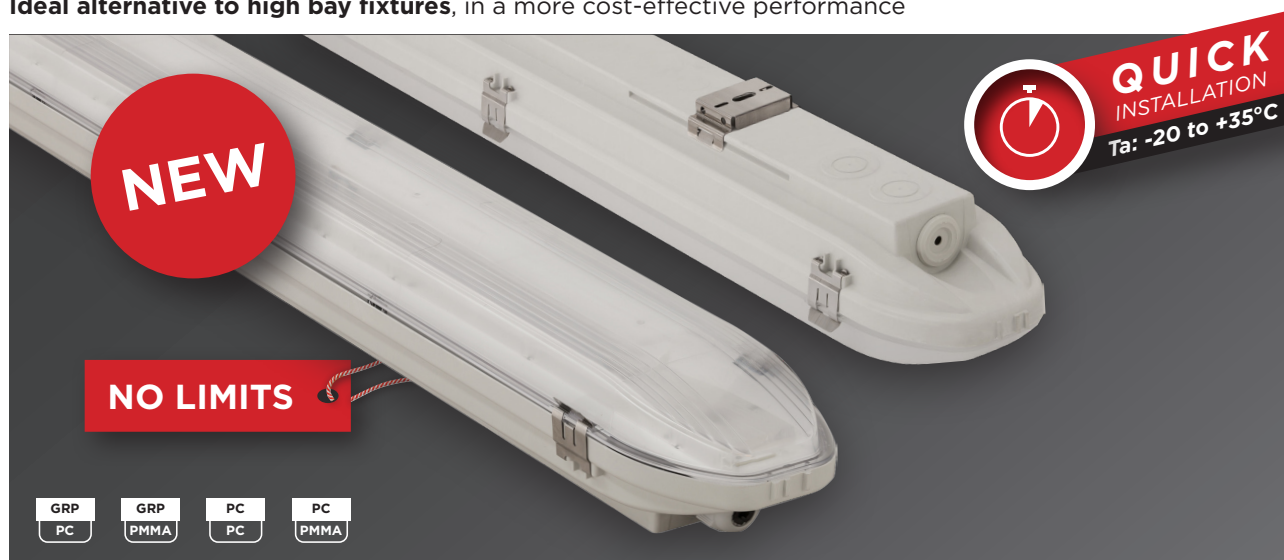
Synergy of art and technology. Perfect choice for high ceilings!

YOUR MAIN BENEFITS:

Narrow beam luminaire, suitable for high ceilings, with a 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 the gasket, the closing system and the 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 a venting plug or a 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. 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 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 a 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 endless silicone 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



LED

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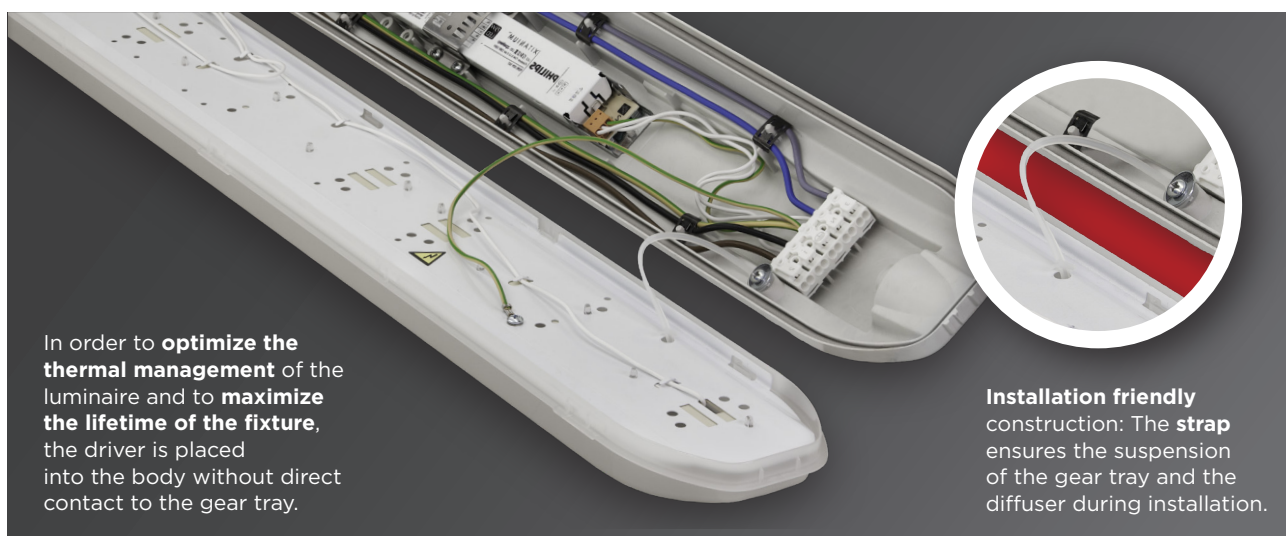
To protect the **LED board**, the **gear tray is integrated into the diffuser** thus enabling a **cost-efficient and user-friendly quick installation** even without disassembling the luminaire.



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

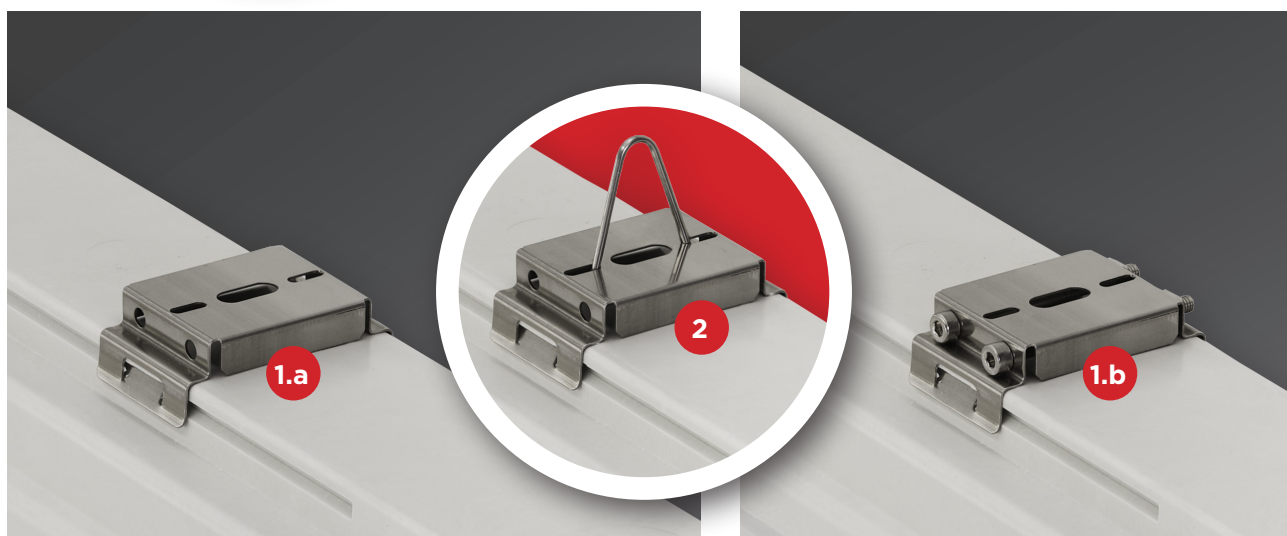


In order to **optimize the thermal management** of the luminaire and to **maximize the lifetime of the fixture**, the driver is placed into the body without direct contact to the gear tray.

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 NB - depending on customer requirements - we can reach different levels of luminous flux **up to 10400 lumen** and a maximum **efficacy of 165 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.



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, 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)

Products 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
Lumnum EU with a DIP switch driver (CCT: 4000K, on request other CCTs are available)										
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	C
Lumnum EU PRO with a DIP switch driver (CCT: 4000K, on request other CCTs are available)										
870 4ft (1200mm)	18/23/27/32	3100/3800/4500/5300	165	>80	> 102 000 h	> 102 000 h	1174	700 +/- 76	2	D
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
Lumnum EU HF (CCT: 4000K, on request other CCTs are available)										
870 4ft (1200mm)	61	8600	165	>80	> 72 000 h	> 72 000 h	1174	700 +/- 76	2	D
870 5ft (1500mm)	77	10800	170	>80	> 72 000 h	> 72 000 h	1454	980 +/- 76	2,2	C
Philips Fortimo HV6 HF 3klm/ft (CCT: 4000K, on request other CCTs are available)										
870 4ft (1200mm)	74	11600	157	>80	> 100 000 h	> 64 000 h	1174	700 +/- 76	2	D
870 5ft (1500mm)	92	14500	157	>80	> 100 000 h	> 64 000 h	1454	980 +/- 76	2,2	C

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



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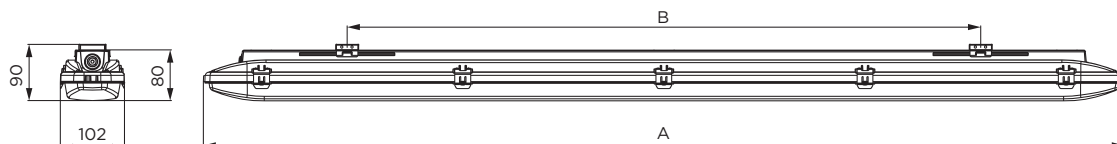
Further options:



On request:



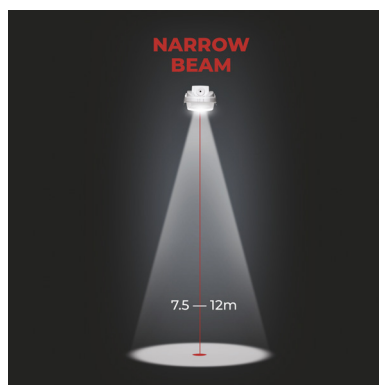
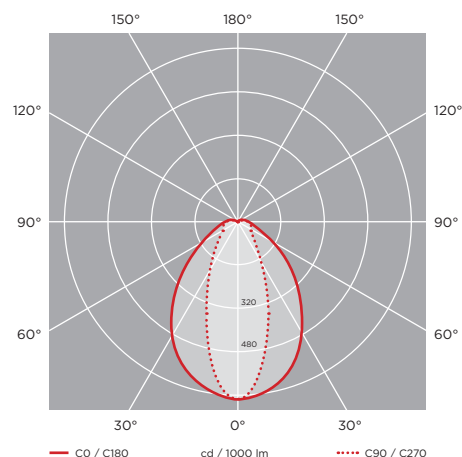
Schematic drawing with main dimensions



Photometric curves:

870-Inspire NB, 5ft (1500mm),
Philips Fortimo HV6 HF, 92W, 14500lm,
PMMA

With the use of a transparent diffuser
a 40° narrow beam radiation angle is
can be achieved in case of high bay applications.



Luminaire
customisation
and the options
of advanced
controls are
presented on
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