

LED

870-FARMER

High-end dust and waterproof luminaires with LED modules.

Perfect choice for farming industry and chemically aggressive environments!

YOUR MAIN BENEFITS:

Corrosion resistant luminaire, designed for **long-term resistance** against chemicals, **especially ammonia**. Gear tray integrated into the diffuser, **user-friendly installation**.

CE

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IP66



Option:



1F

3F



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.

TECHNICAL DESCRIPTION AND BENEFITS:

■ **Housing:** It is made of 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.

■ **Diffuser: Available in Acrylic** - injection moulded **opalised PMMA** (unique non-aging properties, high chemical resistance).

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.**

■ **Gasket: Injected endless silicone foam** with enhanced resistance.

■ **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 module mounting positions according to **Zhaga** standards or customized.

■ **Electrical components:** The adequate power supply is ensured through a special **hermetically sealed electronic driver** - LUMNIUM Farmer HV.

Main technical options

Our new **opalised** diffuser made of UV-stabilized material achieves an **outstanding light transmissivity up to 93%**. This great light permeability offers **high efficacy (up to 164 lm/W)** emitted from the luminaire.




The **maximum of chemical resistance** achieved by using **special components**:

Tinned wires

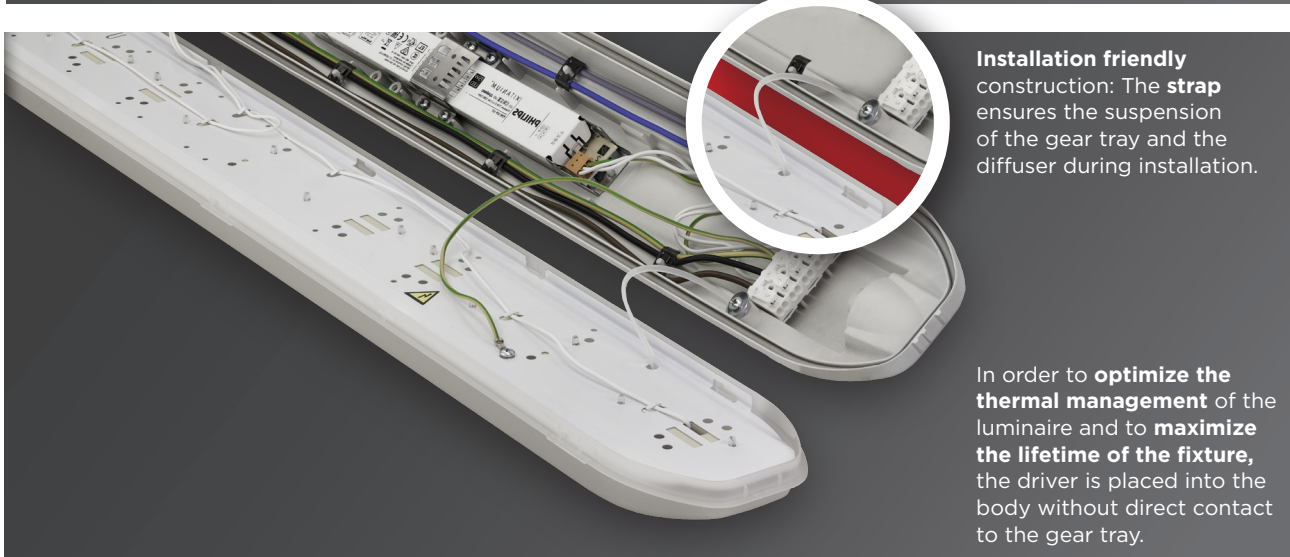
Hermetically sealed driver

Corrosion resistant LED system, LUMNIUM Farmer HV, designed for long-term resistance against chemicals, especially ammonia.



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

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.



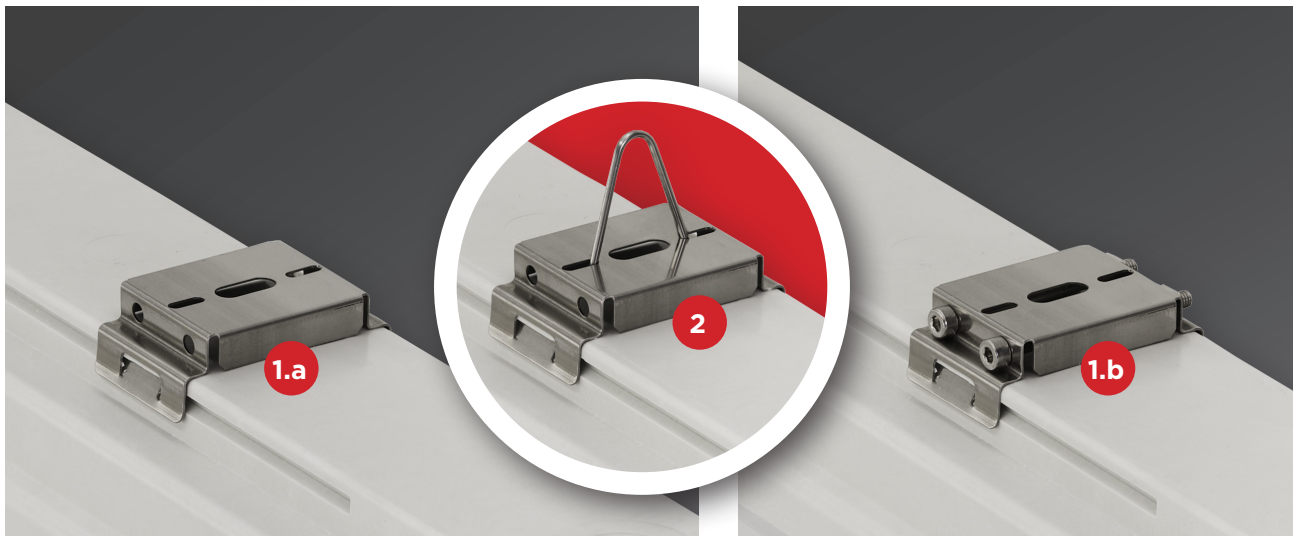
The **gear tray**, made of white powder coated steel sheet according to **Zhaga** standards, is **integrated into the diffuser**. With 870-Farmer - depending on customer requirements - we can reach different levels of luminous flux from 3800 **up to 6600 lumen** with maximum **efficacy of 164 lm/W**. For more details please see technical data.

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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.



HIGHLIGHTED BENEFITS:



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.

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 3-year warranty	Power (W)	Luminare 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)	EEI
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Lumnium3 Farmer HV (CCT: 4000K, on request other CCTs are available)

870 4ft (1200mm)	23	3800	164	>80	>72.000 h	>50.000 h	1174	700+/-76	2	D
870 5ft (1500mm)	33	5000	152	>80	>72.000 h	>50.000 h	1454	980+/-76	2,2	D
870 5ft (1500mm)	43	6600	154	>80	>72.000 h	>40.000 h	1454	980+/-76	2,2	D

Products with a 5-year warranty	Power (W)	Luminare 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)	EEI
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Lumnium5 Farmer HV (CCT: 4000K, on request other CCTs are available)

870 4ft (1200mm)	23	3800	164	>80	>72.000 h	>50.000 h	1174	700+/-76	2	D
870 5ft (1500mm)	33	5000	152	>80	>72.000 h	>50.000 h	1454	980+/-76	2,2	D
870 5ft (1500mm)	43	6600	154	>80	>72.000 h	>40.000 h	1454	980+/-76	2,2	D

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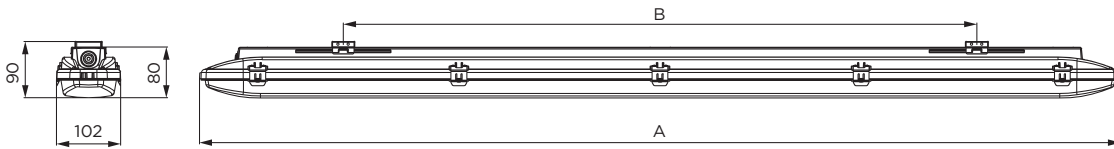
Further options:



On request:

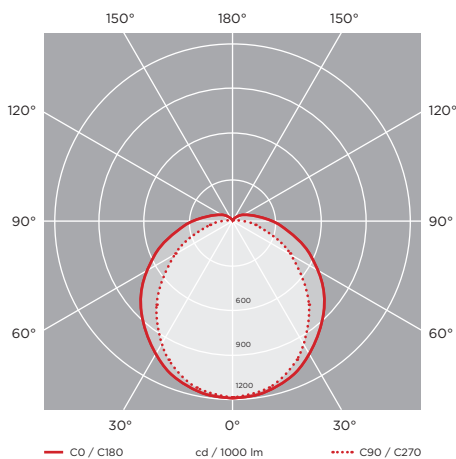


Schematic drawing with main dimensions

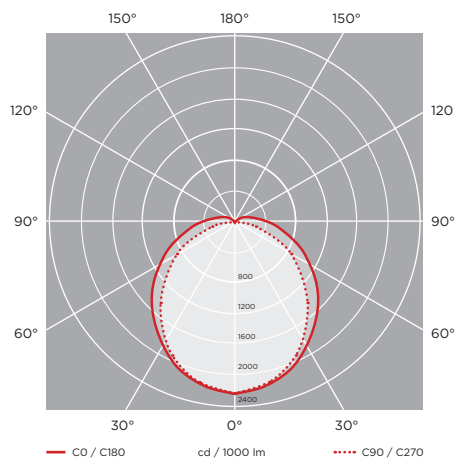


Photometric curves:

870-Farmer, 4ft (1200mm),
Lumnium Farmer HV, 23W, 3800lm,
PMMA



870-Farmer, 5ft (1500mm),
Lumnium Farmer HV, 43W, 6600lm,
PMMA



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