

870-FARMER

High-end dust and waterproof luminaires with LED modules.

Perfect choice for farming industry and chemically aggressive environment!

YOUR MAIN BENEFITS:

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



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IP66



Option:



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.

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. Glass fibre reinforced polyester has 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: silicone-based endless foam** with enhanced resistance.

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

■ **Gear tray** (reflector): white powder coated steel sheet according to **Zhaga** standards or customised.

■ **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. Feel free to choose from our two types of slightly different diffuser designs.



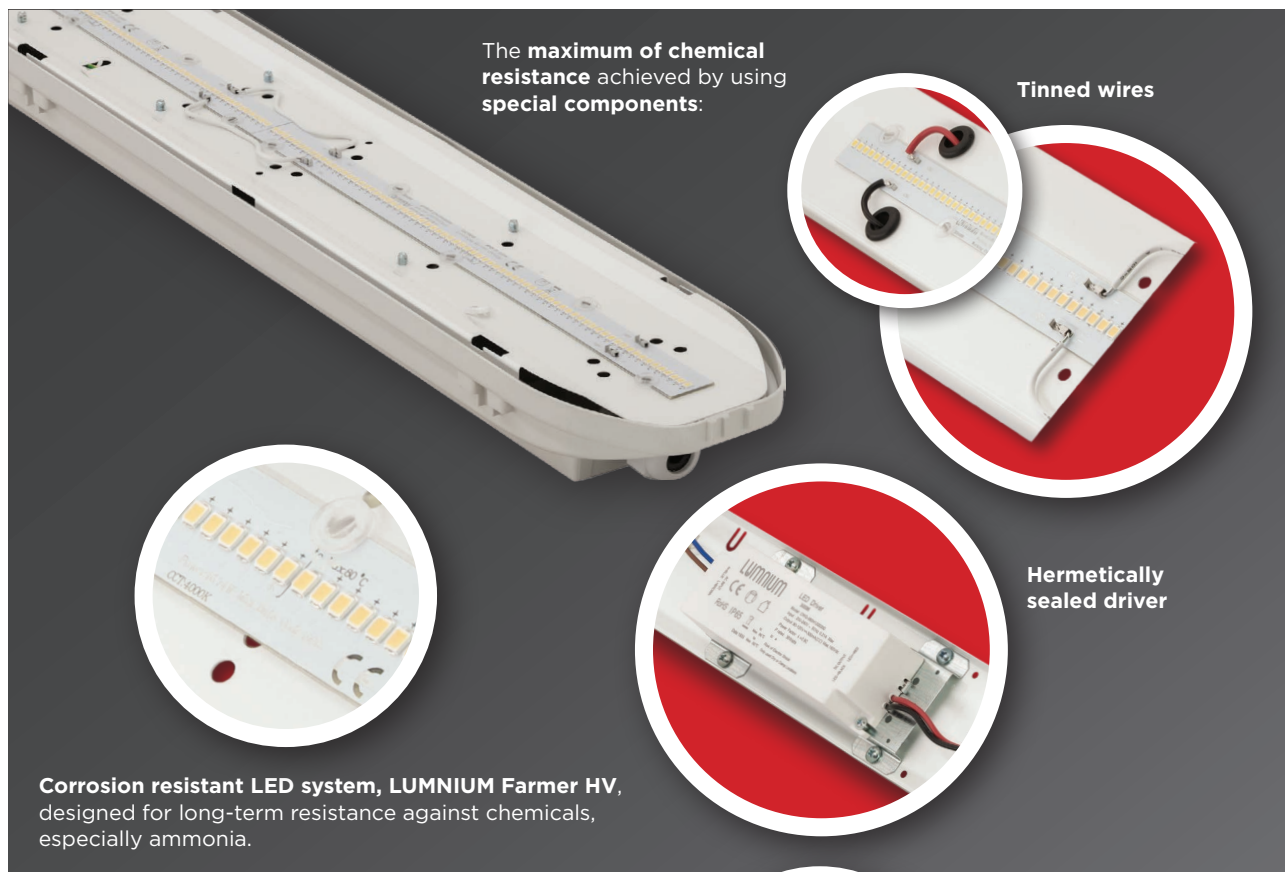
A the **original** diffuser design



B the **modified oval** variant

LED

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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 suspension of the gear tray and the diffuser during installation.

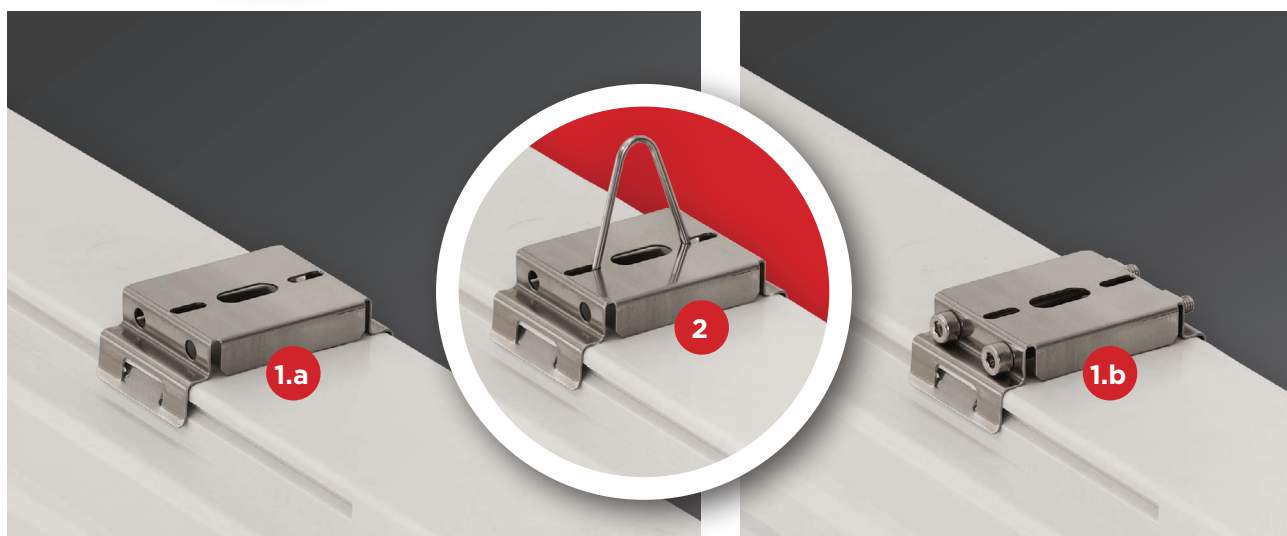
In order to **optimize the thermal management** of the luminaire and to **maximize the lifetime of the LED modules**, the driver is placed into the body without direct contact to the gear tray.

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.

The injected **silicone-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 IP66.



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, **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 database 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 column)

Products with 3 years or with extended 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									
Lumnium3 Farmer HV														
870 4ft (1200mm)	23	3800	n.a.	164	n.a.	4000	>80	50.000 h	50.000 h	1277	700	2	D	696329
870 5ft (1500mm)	33	5000	n.a.	152	n.a.	4000	>80	50.000 h	50.000 h	1577	1000	2,2	D	696329
870 5ft (1500mm)	43	6600	n.a.	154	n.a.	4000	>80	50.000 h	40.000 h	1577	1000	2,2	D	696329
Lumnium5 Farmer HV														
870 4ft (1200mm)	23	3800	n.a.	164	n.a.	4000	>80	50.000 h	50.000 h	1277	700	2	D	696329
870 5ft (1500mm)	33	5000	n.a.	152	n.a.	4000	>80	50.000 h	50.000 h	1577	1000	2,2	D	696329
870 5ft (1500mm)	43	6600	n.a.	154	n.a.	4000	>80	50.000 h	40.000 h	1577	1000	2,2	D	696329

Other colour temperatures available on request

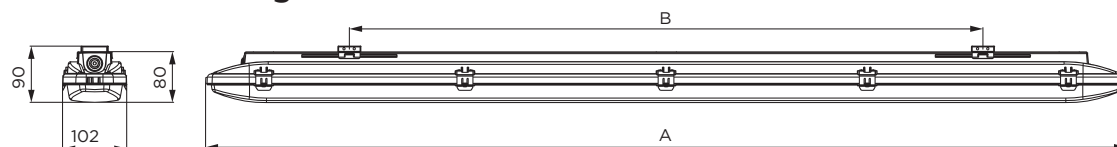
Further options:



On request:

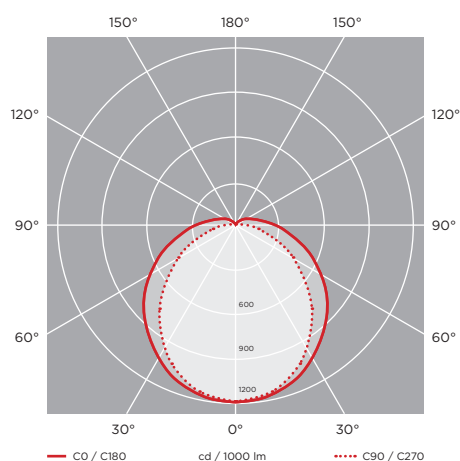


Schematic drawing with main dimensions

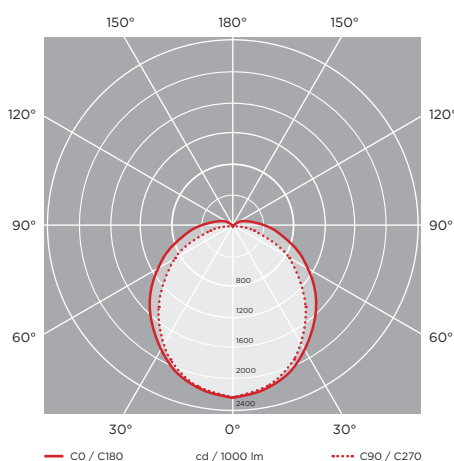


Photometric curves:

870-Farmer, 4ft, 1200m,
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
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