



DUST AND WATERPROOF
INDUSTRIAL LUMINAIRES

2021



IBV Hungária Lighting and Plastic Processing Kft. – member of IBV Holding in Germany – was founded in 1991 in Hungary, Kiskunfélegyháza, a town with significant industrial heritage. Thanks to its dynamic development, today our company **is one of the leading producers of dust and waterproof luminaires in Europe.**

One of our main activities is the production of IBV developed **industrial luminaires with a high IP rating for fluorescent tubes or equipped with LED**, in addition to manufacturing GRP-based (**glass fibre reinforced polyester**) products (kitchen sinks, electric cabinets and telecommunication equipment) designed in cooperation with our partners.

We have leading position on the international market of dust and waterproof luminaires. Our company has been recognized on the market as an **expert** in the field of plastic processing **producing excellent quality products** thanks to the vast experience acquired over 27 years. **More than 95% of our production volume is sold on international markets in more than 60 countries** of 5 continents.

Feedback from our partners on countless occasions confirms the **outstanding price/performance ratio** of our products we are able to offer thanks to two major factors: **German technology used in combination with professional know-how of Hungarian experts.**

The quality level of our products meets the requirements of **European standards (ENEC)** and the highest expectations of our customers. Our SAP integrated company management system gives framework to our activities, thus ensuring that we keep providing our customers with high-quality products. Our company's quality and environment management systems are certified and meet the requirements of the **ISO 9001** quality management system as well as the **ISO 14001** environment management system.

Briefly in figures:

Experience in lighting:	27 years
Product portfolio:	650 product variation
Luminaires sold:	2.2 million pieces/year
GRP processing:	5500 ton/year
Number of employees:	~500
Built-up area:	35,000 m ²

IBV Hungaria Introduction Movie



OUR COMPETENCIES

■ IBV Hungária Kft's quality management system guarantees that we deliver high-quality products with reliable operation. **Our products meet the European standards as well as the highest expectations of our customers.**

Since 2003 our manufacturing and supporting activities are regulated by the **ISO 9001 Quality Management System** and since 2013 also by the **ISO 14001 Environmental Management System**.



We can undertake a comprehensive quality inspection of our products during the sampling process as well as during production. **EMC** (electromagnetic compatibility), **IP** (ingress protection) and other product-specific tests are frequently run in our laboratory. Besides the basic dimensional measuring and impact resistance measuring we can inspect other product features through tests such as glow-wire, scratch resistance and components' water absorption.

Our products comply with the requirements set forth by the relevant European standards and therefore bear the **CE sign**. Furthermore, they are also certified by independent, accredited institutes and as such they also have the **ENEC sign**.

On today's market of luminaires a producer's success is determined by the quality of its products and whether they work safely and reliably. In the light of this, our production is driven by the principle of manufacturing good quality products, which is ensured by careful scrutiny and continuous improvement of our processes from purchase of components to delivery of our products. Our luminaires are equipped exclusively with good quality components and each single piece is tested using a 100% electricity test.

■ As one of Europe's largest **GRP (glass fibre reinforced polyester)** consumers, our company processes more than 5.000 tons of raw material annually. This makes us – after the automobile industry – the continent's largest consumer of GRP.

Thanks to our plant giving place to more than **40 pressing machines** (with a pressing force from 150t to 2000t), we are able to manufacture products of the size of a match-box to that of the size of a cabinet.

The GRP (called also SMC) is processed in high temperature and under great pressing force in the tool where it (after about 1.5-2 minutes) cures. As a result we get a product with perfect features.



Polyester belonging to the group of thermosetting plastics has great mechanical characteristics and its stability of size and shape at changing temperatures is excellent, far better than in case of other plastics (e.g. polycarbonate); additionally, it is also a good electrical insulator.

It is most widely used where there is a need for a component that is light yet and resistant such as in the automobile industry, aviation and ship industry and in the production of luminaires. Before pressing a special paint is applied on the surface of the mould – with PIMC technology – so we can manufacture wear- and chemical-resistant coloured-surface products that can even resist adverse weather conditions.



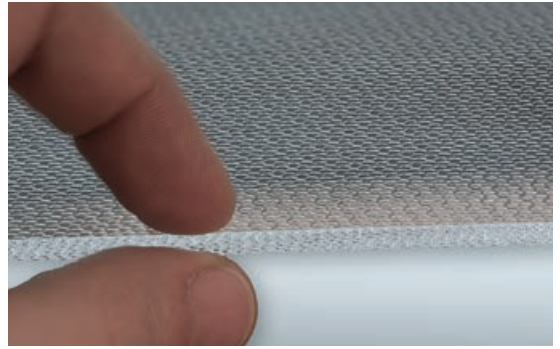
■ We extended our machinery portfolio with a brand new **Thermoset Injection Moulding (BMC)** machine with 200 To press force. On this BMC machine we are able to produce various products for the middle voltage and home appliances markets made of **Bulk Moulded Compound (BMC)** material.

■ With our three **injection moulding** machines (with a pressing force of 1.000 ton) we process several hundred tons of thermoplastics annually, such as **PC** (polycarbonate), **PMMA** (Polymethylmethacrylate), **SAN** (styrene acrylonitrile).

With these machines we produce UV resistant diffusers designed with respect to their optical characteristics. Our offer includes diffusers prepared with longitudinal prisms

We have vast experience in the production and handling of **transparent** as well as **opalised** thermoplastic polymers.

Apart from diffusers we can also extrude plain sheets as well as industrial curtains.



■ The **sealing** of our products is done through the use of a two-component **polyurethane foam** that is applied with the help of an automatized production line. This allows us to manufacture products with an IP rating of 54, 65, 66 or 67, according to the needs of our customers. Benefits of this technology include swift production and reliable quality. In addition to our three foaming machines, a fourth one has been recently installed where we use a **silicone-based sealing** material.



lacquer coat to enhance their aesthetic value as well as their ability to resist weather conditions.

■ The assembly of our luminaires takes place in our **assembly workshop** on highest level. The Kanban system ensures that all the necessary components are at disposal according to needs, thus contributing to an efficient assembly process. All of our assembled luminaires are **100% quality and functionality checked**.

■ We also carry out the painting of our products in our painting workshops. This is where the components most exposed to strain get a



■ Numerous European companies have transferred the production of their plastic products to us. We have assumed our partners' production successfully whether it be GRP or thermoplastics processing. Nothing expresses the trust of our partners placed in us better than the fact that such projects resulting from production transfers accounts for 30% of our revenue.

We have gained great **experience in the maintenance and repair of moulds** producing plastic components, thanks to the fact that we look after our own as well as our partners' moulds. Our mould shop has all the facilities necessary for

maintaining and repairing the moulds, which helps us to provide ongoing maintenance work of several hundred moulds.

It is our extensive know-how, experience and expert knowledge acquired over the years that help us orchestrate a complex transfer of production very often requiring significant technological development – from design through sampling process to the successful realization of the project – in a professional manner ensuring our partner that the production is in safe and competent hands.



CUSTOMISED LUMINAIRES

IBV's expertise in tooling, luminaire housing manufacture, diffuser technology and electronics means we have all the skills, knowledge and capability to develop customised products for our partners.

You may have specific requirements for:

- Lighting levels to achieve
- Alternative design life
- Varying input voltages
- Need in built-sensors
- Emergency lighting, or
- Options for advanced controls

IBV will be your partner in developing a specific lighting product and/or a product range with all test certificates and supporting documentation.

ADVANCED LIGHTING SOLUTIONS

The world is rapidly changing with the drive for energy efficiency and IBV is constantly innovating and adapting to meet these changes for our partners and customers.

Today, IBV offers bespoke and customised lighting solutions for both new build projects and retrofit lighting to:

- Adjust colour temperatures during the day
- Harvest daylight with auto dimming
- Auto test emergency lighting

IBV luminaires can be provided with control options to include:

- 0-10V dimming, DALI
- Wireless
- Networked, PoE etc.

The following Table presents a summary of options available today by luminaire type.

	Product family	Motion sensor	DALI	Daylight harvest	PoE	Wireless control	Extra long lifetime	Colour temperature changing	110 Volt	Strengthened ceiling brackets	5-pole Connectors	3-pole Connectors	Available with LED tubes	Class II protection	Through wiring	Emergency kit
Premium LED range	870-Inspire GRP	✓	✓	Q	Q	Q	Q	Q	Q	✓	✗	✓	✗	✓	✓	✓
	870-Inspire PC	✓	✓	Q	Q	Q	Q	Q	Q	✓	✗	✓	✗	✓	✓	✓
	870-Inspire NB	✓	✓	✗	✗	Q	Q	Q	Q	✓	✗	✓	✗	✓	✓	✓
	870-Inspire +/-	✓	✓	Q	Q	Q	✓	Q	✗	✓	✓	✓	✗	✓	✓	✗
	870-Inspire Air	✓	✓	Q	Q	Q	Q	Q	Q	✓	✓	✓	✗	✓	✓	✗
	870-Farmer	✗	✗	✗	✗	✗	✗	Q	✗	✓	✗	✗	✗	Q	✓	✗
	790-Xtrude	✗	Q	Q	Q	Q	Q	Q	✓	✓	Q	✓	✗	Q	✓	Q
	771-Favourite	✓	✓	Q	Q	Q	✓	Q	✓*	✓	✓	✓	✓	✓	✓	✓
	771-Farmer	✗	Q	✗	✗	✗	✗	Q	✗	✓	✗	✗	✗	Q	Q	✗
	771-Orient +50°C	✓	✓*	Q	Q	Q	✗	Q	Q	✓	✓	✓	✗	✓	Q	✗
	771-Extreme -30°C	✓	✓*	Q	Q	Q	✓	Q	✗	✓	✓	✓	✗	✓	✓	✗
	771-Ventila	✓	✓	Q	Q	Q	✗	Q	✓*	✓	✓	✓	✓*	✓	✓	✗
	775-PC	✓	✓	Q	Q	Q	✓	Q	✓*	✓	✓	✓	✓	✓	✓	✓
	746-Clever	✓	✓	Q	Q	Q	✓	Q	✓*	✓	✓	✓	✓	✓	✓	Q
Standard LED range	872-Entry GRP	✓	✓	✗	✗	✗	✓	Q	Q	✓	✓	✓	✗	Q	✓	✓
	872-Entry PC	✓	✓	✗	✗	✗	Q	Q	Q	✓	✗	✓	✗	Q	✓	✓
	872-Entry NB	Q	✓	Q	✗	Q	✓	Q	Q	✓	✓	✓	✗	Q	✓	✓
	792-XSlide	✗	✓	✗	✗	✗	Q	✗	Q	✓	✓	✓	✗	Q	✓	Q

✓ Available ✗ Not available Q On request

*The luminaires can be delivered after successful tests.

The marketing materials for the above, either printed or on-line, is ever changing. Therefore the overview below is just to highlight some of the main versions and devices, that can be combined/used with our luminaires. We would be pleased to develop your advanced lighting options upon your request.



**Motion sensor,
corridor function**



**Building lighting
control**



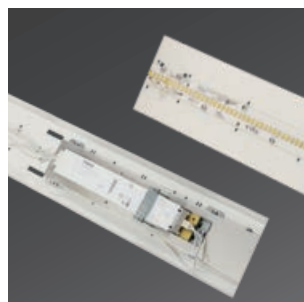
**Daylight
harvesting**



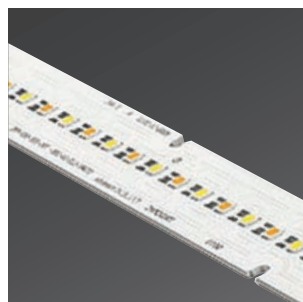
**Power over Ethernet
(PoE)
Smart Network**



**Wireless
communication**



**Extra long lifetime
(100,000 hours)**



**Changing of
correlated colour
temperature**



**Mains voltage
110V**



**Strengthened
mounting brackets**



**Special 5-pole
connectors enabling
quick (in-line)
installation**



**Special 3-pole
connectors enabling
quick (in-line)
installation**



**Available
with LED tubes**



**Quick
installation**



Class II protection



1F **Through
wiring**



Emergency lighting

LEGEND

Symbols concerning the application:



Luminaires with this symbol are double insulated (Class II protection)



Luminaires with this mark are suitable for direct installing on normal flammable building materials, according to DIN 4102 or similar materials, which have an ignition temperature of at least 200°



Luminaires bearing this symbol have limited surface temperature and are suitable for use in premises which are susceptible to dust and fibres.



Glow wire test 850°C



Protection level against external impact

Symbols concerning the built-in components:



Equipped with LED



Luminaires equipped with electronic control gear



Luminaires equipped with dimmable electronic control gear



Dimmable LED luminaires



1 phase through wiring



3 phase through wiring



Luminaires with emergency module

Symbols concerning IP protection:



- protected against splashing water



- protected against jet water



- protected against immersion (1m)

IP66

Protected against powerful water jets (heavy seas)



- dustproof



- dust-tight

RESISTANCE TO CHEMICALS

Since the aggressive agents in liquid or gas form can destroy the plastic parts of the lighting fixtures, increased attention must be paid to the selection of the proper materials. The following table will help in this selection. It contains the most frequently used chemicals. More information can be found on our website (www.ibv.hu).

CHEMICALS	PMMA diffuser	PC diffuser housing	GRP housing
ALCOHOLS			
Alcohol up to 30%	+++	+++	+++
Alcohol concentrate	○	○	○
Methanol	○	○	○
Glycerine	+++	++	+++
Glycol	+++	+++	+++
AQUEOUS SOLUTIONS			
Sea water	+++	+++	+++
Hydrogen Peroxide up to 40%	○	++	○
Hydrogen Peroxide over 40%	○	++	○
Metal salts and their aqueous solutions	+++	+++	+++
Salt solutions	+++	+++	+++
GASES			
Carbon dioxide	+++	+++	+++
Carbon monoxide	+++	+++	+++
HYDROCARBONS			
Benzene	○	○	○
Diesel oil	+++	++	+++
Petroleum Ether	+++	++	+++
Aliphatic Hydrocarbons	++	+++	++
Aromatic Hydrocarbons	○	○	++
OILS			
Aniline	○	○	○
Machine-tool oils	○	○	+++
Diesel oil	○	○	+++
Brake oil	○	○	○
Flammable acid oils	○	++	+++
Camphor oil	○	○	○
Lubricating oil	++	+++	+++
Silicone oil	+++	+++	+++
Paraffin oil	++	+++	+++
Saturated mineral oil	○	○	++

INORGANIC ACIDS

	PMMA diffuser	PC diffuser housing	GRP housing
Battery acid	+++	+++	+++
Bromic acid	○	○	○
Hydrochloric acid up to 20%	+++	+++	+++
Hydrochloric acid over 20%	+++	++	+++
Nitric acid up to 10%	+++	+++	+++
Nitric acid between 10% and 20%	++	++	++
Nitric acid over 20%	○	○	○
Sulphuric acid	+++	+++	+++
Sulphuric acid up to 50%	+++	+++	+++
Sulphuric acid up to 70%	++	++	+++
Sulphuric acid over 70%	○	○	○
Sulphurous acid up to 5%	++	○	++

ORGANIC ACIDS

	PMMA diffuser	PC diffuser housing	GRP housing
Acetic acid up to 5%	++	+++	+++
Acetic acid up to 30%	○	++	+++
Butyric acid	○	++	+++
Citric acid	++	+++	+++
Lactic acid	++	+++	+++

BASIC COMPOUNDS

	PMMA diffuser	PC diffuser housing	GRP housing
Ammonia 0,005% *	+++	○	+++
Milk of lime	+++	++	+++
Synthetic basic compounds	+++	++	+++
Sodium hydroxide up to 2%	+++	○	++
Sodium hydroxide up to 10%	+++	○	○

SOLVENTS

	PMMA diffuser	PC diffuser housing	GRP housing
Acetone	○	○	○
Ketone	○	○	○
Chlorofenol	○	○	○
Chloroform	○	○	○
Methylene Chloride	○	○	○
Dioxane	○	○	+++
Ether	○	○	++
Ethyl Acetate	○	○	○
Phenol	○	○	○
Methyl-ethyl ketone	○	○	○
Turpentine	++	++	+++
Pyridine	○	○	○
Carbon tetrachloride	○	○	+++
Xylene	○	○	○

Before selecting the product, please check the chemical environment for the lighting application. The above table refers to an ambient temperature of 25°C±10°C. The chemical resistance is only valid if there are no mechanical effects, which may cause surface deformation, elongation or evolution of capillary cracks.

Legend:

+++	resistant
++	limited resistance
○	not resistant

* Occupational Exposure Limit -
EC (2000)

It is recommended to consult the manufacturer before any product is selected for potentially chemically aggressive applications.

GENERAL CONDITIONS OF WARRANTY

Our products are continuously developing and hence we reserve the right to make technical modifications of the dimensions, technical data, weight and construction stated without prior written notice!

PRODUCT SEGMENTATION

LED products:

For our LED lighting products, we provide **5-3-2 years of warranty**, depending on the product as detailed below:

Premium LED products with 5 years warranty:

- Our **premium LED products** with injected **silicon-based** gasket (except for the 870-Inspire Air, 771-Ventila product families)
- **870-Farmer, 771-Farmer** product families - in case the customer has ordered the products with the extended 5-year warranty
- **Extruded luminaires** (790-Xtrude and 792-XSlide) - in case the customer has ordered the product with the extended 5-year warranty

Standard LED products with 3 years warranty:

- Our **standard LED products** with non-aging **polyurethane** gasket
- **870-Farmer, 771-Farmer** product families - in case the customer has ordered the products with the standard 3-year warranty
- **Extruded luminaires** (790-Xtrude and 792-XSlide) - in case the customer has ordered the products with the standard 3-year warranty

Our LED products with 2 years warranty:

We provide a **2-year warranty** on the **870-Inspire Air** and **771-Ventila** product families.

Remarks:

Regarding any other products not stated above and/or variations on a product – such as luminaires equipped with emergency battery kit or sensor – the above extended warranty period is not applicable.

In the case of versions other than the above, individual written contract with the client shall be applied.

*Date of implementation**: 01.09.2021 (*Note: The warranty period must always be checked on the basis of the document in force at the time of the despatch of the product.)

The luminaires presented in this catalogue
are available **as unassembled sets**
(without electrical components) **on request.**



LED

PREMIUM LED RANGE

CLASSIC CONSTRUCTION

870-INSPIRE GRP

✓ TOP-PREMIUM
QUALITY | **12**

870-INSPIRE PC

✓ IMPACT
RESISTANT | **16**

870-INSPIRE NB

✓ NARROW BEAM
FOR HIGH CEILINGS | **20**

870-INSPIRE +/-

✓ FOR EXTREME
HIGH AND LOW
TEMPERATURES | **24**

870-INSPIRE AIR

✓ FOR OUTDOOR
APPLICATION | **28**

870-FARMER

✓ CHEMICALLY
RESISTANT | **32**

771-FAVOURITE

✓ PROFESSIONAL
PREMIUM | **37**

771-ORIENT +50°C

✓ FOR HIGH
TEMPERATURES | **41**

771-EXTREME -30°C

✓ FOR LOW
TEMPERATURES | **45**

771-VENTILA

✓ FOR OUTDOOR
APPLICATION | **47**

771-FARMER

✓ CHEMICALLY
RESISTANT | **51**

775-PC

✓ IMPACT
RESISTANT | **54**

746-CLEVER

✓ HIGH LIGHT
TRANSMISSIVITY | **59**

EXTRUDED PROFILE

790-XTRUDE

✓ EXTRUDED,
PREMIUM QUALITY | **63**

CLASSIC CONSTRUCTION

872-ENTRY GRP

✓ PROFESSIONAL
STANDARD | **66**

872-ENTRY PC

✓ IMPACT
RESISTANT | **70**

872-ENTRY NB

✓ NARROW BEAM
FOR HIGH CEILINGS | **74**

RETROFIT LED 771-PRO LT

✓ FOR LED TUBES | **78**

RETROFIT LED 775-PRO LT

✓ FOR LED TUBES | **80**

RETROFIT LED 746-PRO LT

✓ FOR LED TUBES
WITHOUT GEAR TRAY | **82**

EXTRUDED PROFILE

792-XSLIDE

✓ EXTRUDED,
STANDARD QUALITY | **85**

STANDARD LED RANGE

LED

870-INSPIRE GRP

High-end dust and waterproof luminaires with LED modules.

Synergy of art and technology
Inspiring design in professional quality.

YOUR MAIN BENEFITS:

Gear tray integrated into the diffuser

Cost efficient and user-friendly **installation** even without disassembling the luminaire



870-INSPIRE GRP

IP66



Option:

IP67



1F

3F



850°C

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:** 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, 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.

■ **Diffuser: Available in PC** - injection moulded **opalised Polycarbonate** (high mechanical strength and high heat and shock resistance) **or in Acrylic** - injection moulded **opalised PMMA** (unique non-aging properties, high chemical resistance).

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



A the **original** diffuser design



B the **modified oval** variant

LED

870-INSPIRE GRP

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

Icons: Signal, Sun/Moon, Wi-Fi, PoE

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-Inspire GRP - depending on customer requirements - we can reach different levels of luminous flux from 2700 up to 14000 lumen with maximum **efficacy of 160 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:

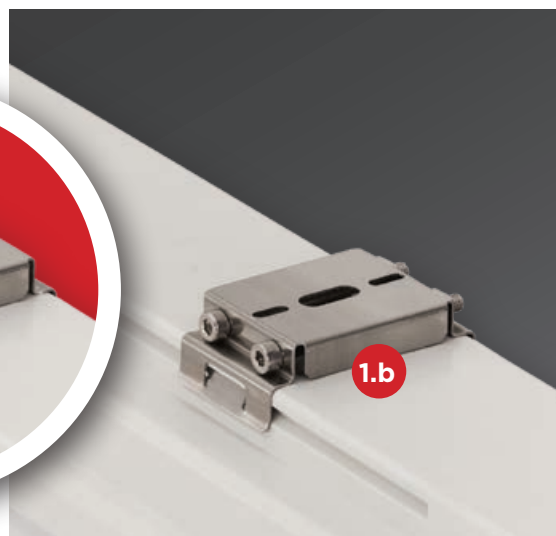
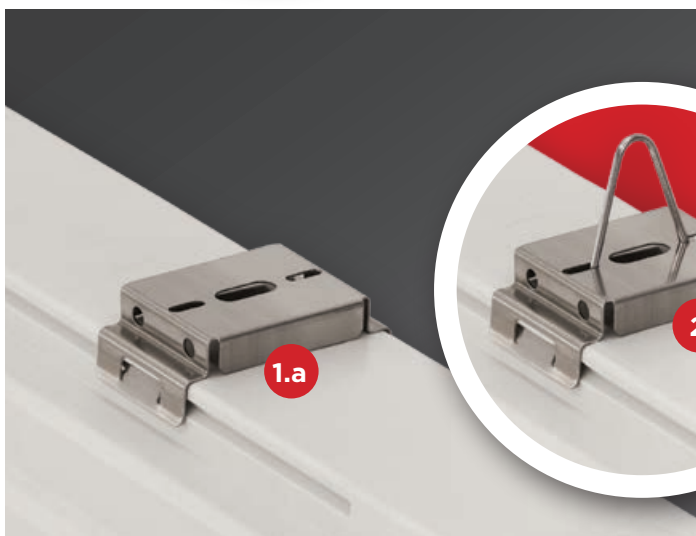
IP66 grommet



Cable gland



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



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)

PMMA Type	Power (W)	Warranty (years)	Luminare total luminous flux - emitted (lm)	Lum. efficacy (lm/W)	Correlated colour temp (Kelvin)	CRI	Lifetime L70B50 (Ta=45°C)	Lifetime L80B10 (Ta=45°C)	A (mm)	B (mm)	Weight (kg)
Lumnium EU 130 with Osram driver											
870 4ft (1200mm)	24	5 years	3400	142	4000	>80	> 72 000 h *	> 50 000 h *	1174	700 +/- 76	2
870 5ft (1500mm)	30	5 years	4300	143	4000	>80	> 72 000 h *	> 50 000 h *	1454	1000 +/- 76	2,2
870 4ft (1200mm)	37	5 years	5200	140	4000	>80	> 72 000 h *	> 50 000 h *	1174	700 +/- 76	2
870 5ft (1500mm)	51	5 years	7000	137	4000	>80	> 72 000 h *	> 50 000 h *	1454	1000 +/- 76	2,2

Lumnium EU PRO 160 with Osram driver											
870 4ft (1200mm)	22	5 years	3450	157	4000	>80	> 72 000 h	> 50 000 h	1174	700 +/- 76	2
870 5ft (1500mm)	27	5 years	4200	157	4000	>80	> 72 000 h	> 50 000 h	1454	1000 +/- 76	2,2
870 4ft (1200mm)	32	5 years	5000	158	4000	>80	> 72 000 h	> 50 000 h	1174	700 +/- 76	2
870 5ft (1500mm)	44	5 years	7000	160	4000	>80	> 72 000 h	> 50 000 h	1454	1000 +/- 76	2,2

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

with DIP Switch PMMA Type	Power (W)	Warranty (years)	Luminare total luminous flux - emitted (lm)	Lum. efficacy (lm/W)	Correlated colour temp (Kelvin)	CRI	Lifetime L70B50 (Ta=45°C)	Lifetime L80B10 (Ta=45°C)	A (mm)	B (mm)	Weight (kg)
Lumnium EU 160 with Osram driver											
870 4ft (1200mm)	19	5 years	3000	162	4000	>80	> 72 000 h	> 50 000 h	1185	700±78	2
	23		3700								
	27		4500								
	32		5200								
870 5ft (1500mm)	25	5 years	4100	163	4000	>80	> 72 000 h	> 50 000 h	1477	1000±78	2,2
	32		5200								
	38		6200								
	44		7200								

PMMA Type	Power (W)	Warranty (years)	Luminare total luminous flux - emitted (lm)	Lum. efficacy (lm/W)	Correlated colour temp (Kelvin)	CRI	Lifetime L70B50 (Ta=35°C)	Lifetime L80B10 (Ta=35°C)	A (mm)	B (mm)	Weight (kg)
Lumnium EU PRO 140 HF with Philips driver											
870 4ft (1200mm)	61	5 years	8300	136	4000	>80	> 72 000 h	> 50 000 h	1174	700 +/- 76	2
870 5ft (1500mm)	77	5 years	10400	135	4000	>80	> 72 000 h	> 50 000 h	1454	1000 +/- 76	2,2
Philips Fortimo HV6											
870 4ft (1200mm)	60	5 years	8800	146	4000	>80	> 100 000 h	> 64 000 h	1174	700 +/- 76	2
870 5ft (1500mm)	75	5 years	11000	146	4000	>80	> 100 000 h	> 64 000 h	1454	1000 +/- 76	2,2
Philips Fortimo HV6 HF 3klm/ft											
870 4ft (1200mm)	74	5 years	11300	152	4000	>80	> 100 000 h	> 64 000 h	1174	700 +/- 76	2
870 5ft (1500mm)	92	5 years	14000	152	4000	>80	> 100 000 h	> 64 000 h	1454	1000 +/- 76	2,2

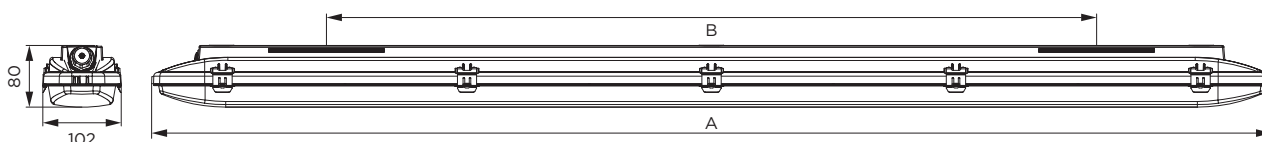
Further options:



On request:

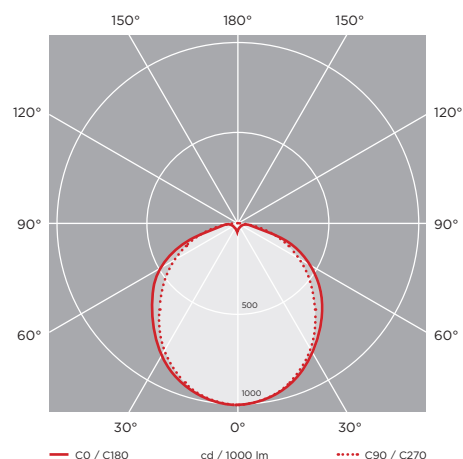


Schematic drawing with main dimensions

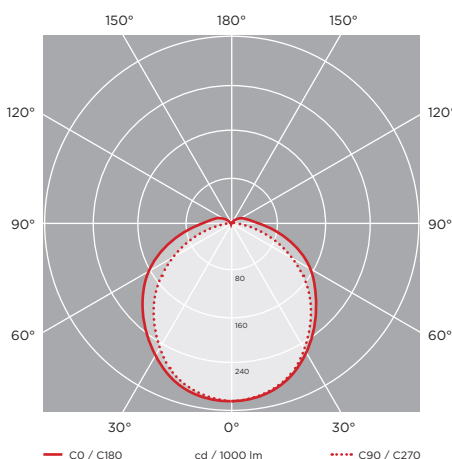


Photometric curves:

870-Inspire GRP, 4ft, Lumnium EU 130, 24W, 3400 lm



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



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

LED

870-INSPIRE PC

High-end dust and waterproof luminaires with LED modules.

Synergy of art and technology
Inspiring design in professional quality.

YOUR MAIN BENEFITS:

Gear tray integrated into the diffuser

Cost efficient and user-friendly **installation** even without disassembling the luminaire



870-INSPIRE PC

IP66



Option:

IP67



1F

3F



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 (Optionally available in IP67). In accordance with their IP rating they can be widely used to illuminate spaces with dusty and humid environments. Thanks to its **enhanced impact resistance**, 870-Inspire PC is especially suitable for applications, where a **high IK impact rating** is required. 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:** It is made of flame retardant **injection moulded Polycarbonate (PC)** in light grey (RAL7035) colour (suitable for 850°C glow wire test too). Polycarbonate has very high mechanical strength and allows us to reach an excellent shock resistance.

■ **Diffuser:** Available in **PC** - injection moulded **opalised Polycarbonate** (high mechanical strength and high heat and shock resistance). As option, injection moulded acrylic (PMMA) diffuser in opal version is available (not IK08).

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



A the **original** diffuser design



B the **modified oval** variant

LED

870-INSPIRE PC

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

Icons: Signal, Sun/Moon, Wi-Fi, PoE

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-Inspire PC - depending on customer requirements - we can reach different levels of luminous flux from 3000 up to **12900 lumen** with maximum **efficacy of 152 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:

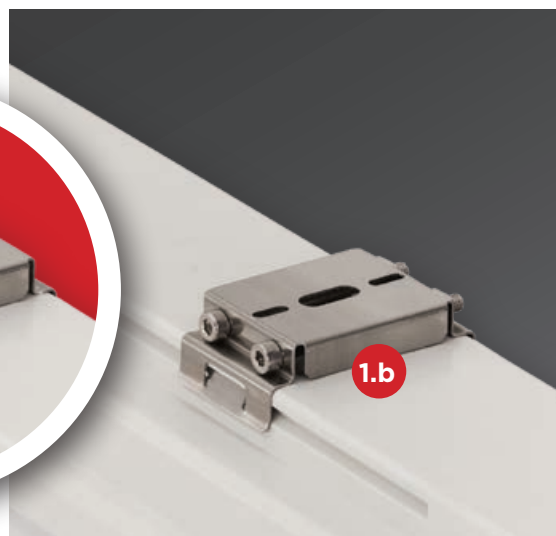
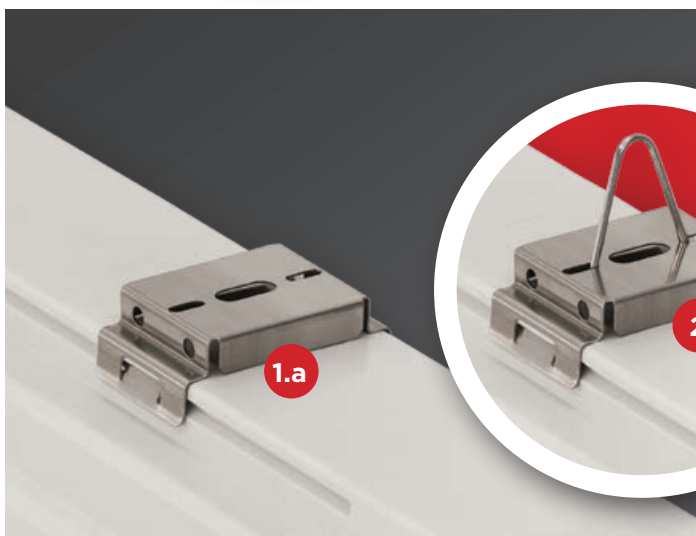
IP66 grommet



Cable gland



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



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)

PC Type	Power (W)	Warranty (years)	Luminare total luminous flux - emitted (lm)	Lum. efficacy (lm/W)	Correlated colour temp (Kelvin)	CRI	Lifetime L70B50 (Ta=45°C)	Lifetime L80B10 (Ta=45°C)	A (mm)	B (mm)	Weight (kg)
Lumnium EU 130 with Osram driver											
870 2ft (600mm)	24	5 years	3000	125	4000	>80	> 72 000 h *	> 50 000 h *	615	300 +/- 25	0,9
870 4ft (1200mm)	24	5 years	3150	131	4000	>80	> 72 000 h *	> 50 000 h *	1174	700 +/- 76	2
870 5ft (1500mm)	30	5 years	4000	133	4000	>80	> 72 000 h *	> 50 000 h *	1454	1000 +/- 76	2,2
870 4ft (1200mm)	37	5 years	4800	130	4000	>80	> 72 000 h *	> 50 000 h *	1174	700 +/- 76	2
870 5ft (1500mm)	51	5 years	6500	128	4000	>80	> 72 000 h *	> 50 000 h *	1454	1000 +/- 76	2,2

Lumnium EU PRO 160 with Osram driver

870 4ft (1200mm)	22	5 years	3200	145	4000	>80	> 72 000 h	> 50 000 h	1174	700 +/- 76	2
870 5ft (1500mm)	27	5 years	3900	144	4000	>80	> 72 000 h	> 50 000 h	1454	1000 +/- 76	2,2
870 4ft (1200mm)	32	5 years	4600	144	4000	>80	> 72 000 h	> 50 000 h	1174	700 +/- 76	2
870 5ft (1500mm)	44	5 years	6400	146	4000	>80	> 72 000 h	> 50 000 h	1454	1000 +/- 76	2,2

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

with DIP Switch PC Type	Power (W)	Warranty (years)	Luminare total luminous flux - emitted (lm)	Lum. efficacy (lm/W)	Correlated colour temp (Kelvin)	CRI	Lifetime L70B50 (Ta=45°C)	Lifetime L80B10 (Ta=45°C)	A (mm)	B (mm)	Weight (kg)
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Lumnium EU 160 with Osram driver

870 4ft (1200mm)	19	5 years	3000	150	4000	>80	> 72 000 h	> 50 000 h	1185	700±78	2
	23		3700								
	27		4500								
	32		5200								
870 5ft (1500mm)	25	5 years	4100	152	4000	>80	> 72 000 h	> 50 000 h	1477	1000±78	2,2
	32		5200								
	38		6200								
	44		7200								

PC Type	Power (W)	Warranty (years)	Luminare total luminous flux - emitted (lm)	Lum. efficacy (lm/W)	Correlated colour temp (Kelvin)	CRI	Lifetime L70B50 (Ta=35°C)	Lifetime L80B10 (Ta=35°C)	A (mm)	B (mm)	Weight (kg)
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Lumnium EU PRO 140 HF with Philips driver

870 4ft (1200mm)	61	5 years	7700	126	4000	>80	> 72 000 h	> 50 000 h	1174	700 +/- 76	2
870 5ft (1500mm)	77	5 years	9600	125	4000	>80	> 72 000 h	> 50 000 h	1454	1000 +/- 76	2,2

Philips Fortimo HV6

870 4ft (1200mm)	60	5 years	8100	136	4000	>80	> 100 000 h	> 64 000 h	1174	700 +/- 76	2
870 5ft (1500mm)	75	5 years	10100	134	4000	>80	> 100 000 h	> 64 000 h	1454	1000 +/- 76	2,2

Philips Fortimo HV6 HF 3klm/ft

870 4ft (1200mm)	74	5 years	10500	142	4000	>80	> 100 000 h	> 64 000 h	1174	700 +/- 76	2
870 5ft (1500mm)	92	5 years	12900	141	4000	>80	> 100 000 h	> 64 000 h	1454	1000 +/- 76	2,2

Further options:



On request:

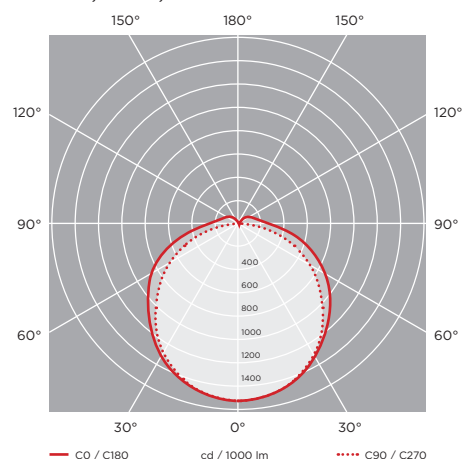


Schematic drawing with main dimensions

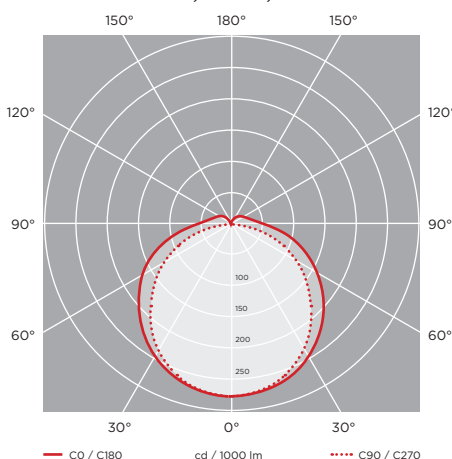


Photometric curves:

870-Inspire PC, opal PC, 4ft, Lumnium EU 130, 24W, 3150 lm



870-Inspire PC, opal PC, 5ft, Lumnium EU PRO 140 HF, 77W, 9600lm



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

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



LED

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.



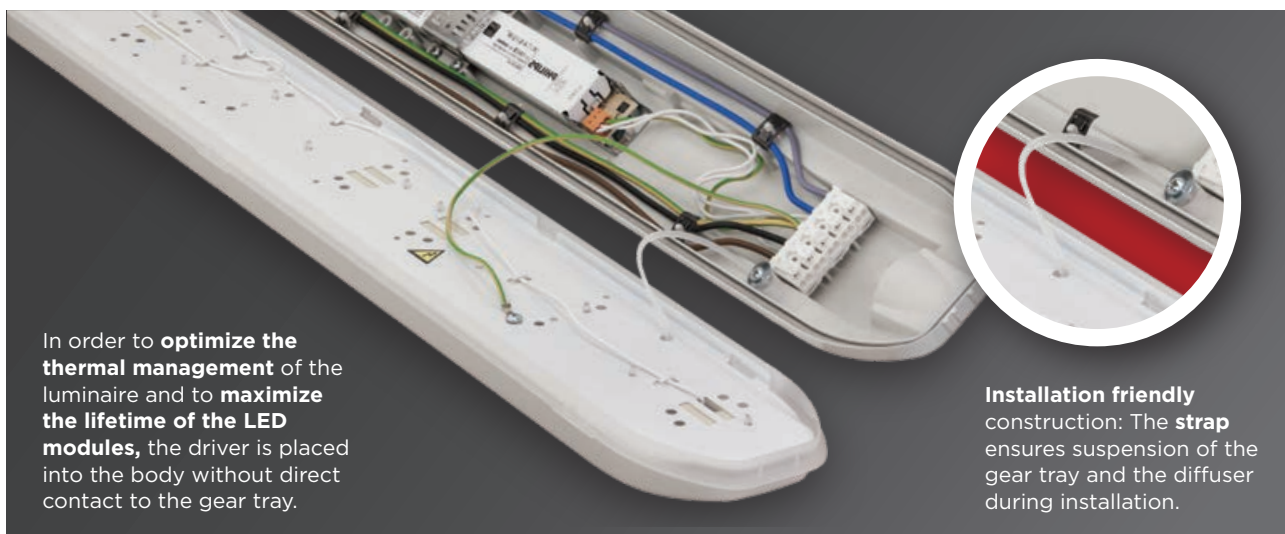
The **stainless steel clips** stay in their position during installation and can be released by bare hands.



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:

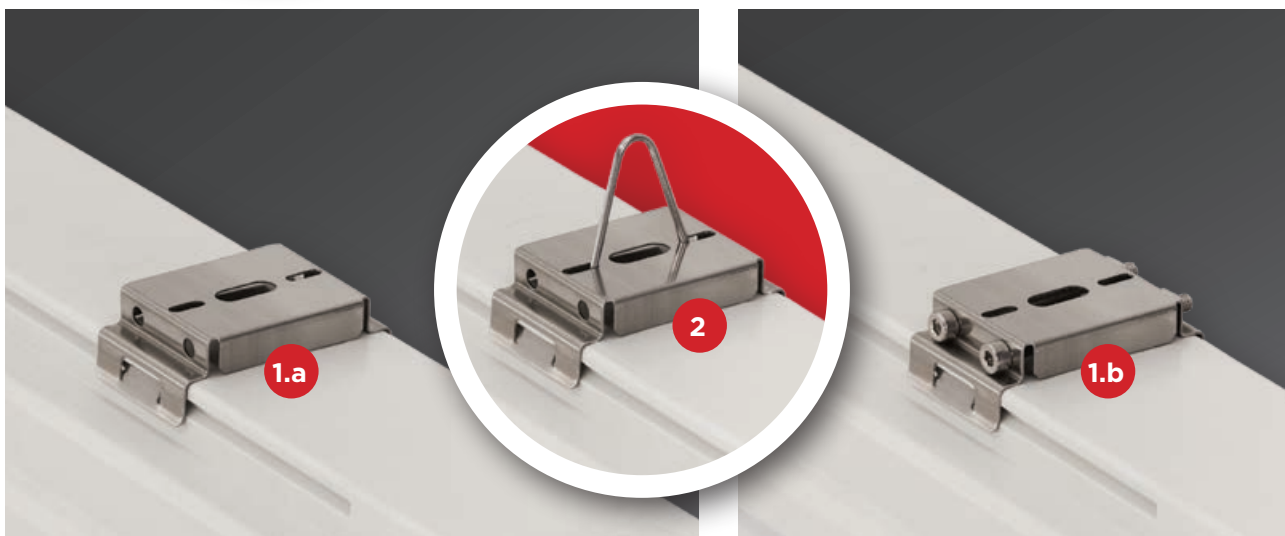
IP66 grommet



Cable gland



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



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)

PMMA Type	Power (W)	Warranty (years)	Luminare total luminous flux - emitted (lm)	Lum. efficacy (lm/W)	Correlated colour temp (Kelvin)	CRI	Lifetime L70B50 (Ta=35°C)	Lifetime L80B10 (Ta=35°C)	A (mm)	B (mm)	Weight (kg)
Lumnum EU 130 with Osram driver											
870 4ft (1200mm)	37	5 years	5400	146	4000	>80	> 72 000 h *	> 50 000 h *	1174	700 +/- 76	2
870 5ft (1500mm)	51	5 years	7300	143	4000	>80	> 72 000 h *	> 50 000 h *	1454	1000 +/- 76	2,2
Lumnum EU PRO 160 with Osram driver											
870 4ft (1200mm)	32	5 years	5200	163	4000	>80	> 72 000 h	> 50 000 h	1174	700 +/- 76	2
870 5ft (1500mm)	44	5 years	7300	166	4000	>80	> 72 000 h	> 50 000 h	1454	1000 +/- 76	2,2
Lumnum EU PRO 140 HF with Philips driver											
870 4ft (1200mm)	61	5 years	8600	141	4000	>80	> 72 000 h	> 50 000 h	1174	700 +/- 76	2
870 5ft (1500mm)	77	5 years	10900	142	4000	>80	> 72 000 h	> 50 000 h	1454	1000 +/- 76	2,2
Philips Fortimo HV6											
870 4ft (1200mm)	60	5 years	9100	152	4000	>80	> 100 000 h	> 64 000 h	1174	700 +/- 76	2
870 5ft (1500mm)	75	5 years	11400	152	4000	>80	> 100 000 h	> 64 000 h	1454	1000 +/- 76	2,2
870 4ft (1200mm)	74	5 years	11500	155	4000	>80	> 100 000 h	> 64 000 h	1174	700 +/- 76	2
870 5ft (1500mm)	92	5 years	14500	158	4000	>80	> 100 000 h	> 64 000 h	1454	1000 +/- 76	2,2

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

with DIP Switch PMMA Type	Power (W)	Warranty (years)	Luminare total luminous flux - emitted (lm)	Lum. efficacy (lm/W)	Correlated colour temp (Kelvin)	CRI	Lifetime L70B50 (Ta=35°C)	Lifetime L80B10 (Ta=35°C)	A (mm)	B (mm)	Weight (kg)
Lumnum EU 160 with Osram driver											
870 4ft (1200mm)	19	5 years	3100	165	4000	>80	> 72 000 h	> 50 000 h	1185	700±78	2
	23		3800								
	27		4700								
	32		5200								
870 5ft (1500mm)	25	5 years	4200	165	4000	>80	> 72 000 h	> 50 000 h	1477	1000±78	2,2
	32		5400								
	38		6400								
	44		7500								

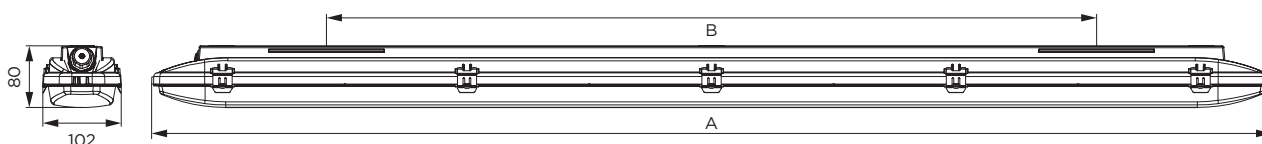
Further options:



On request:



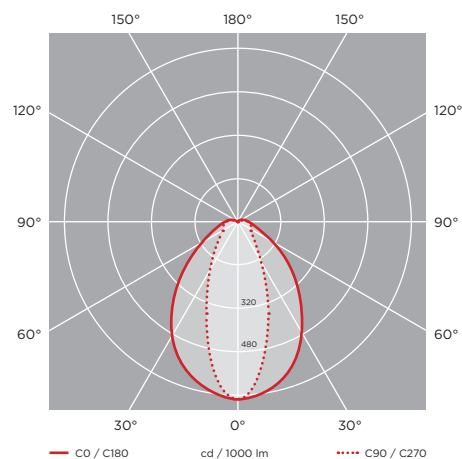
Schematic drawing with main dimensions



Photometric curves:

870-Inspire NB, 5ft, 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

870-INSPIRE +/-

High-end dust and waterproof luminaires with LED modules.

Professional quality suitable for wide application

2-in-1: Error-free functioning at extreme ambient temperature

YOUR MAIN BENEFITS:

A professional luminaire adapted for **extremely high and extremely low** ambient temperatures. (Ta: -30 to +50 °C) for wide usage, that fulfils the strongest quality requirements.



870-INSPIRE +/-



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. Thanks to its **enhanced temperature resistance**, 870-Inspire +/- is especially suitable for applications, where **error-free functioning at high and low ambient temperature** is desired (industrial plants, cold stores, in countries with subtropic climate...etc.)

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:** Available with PC or GRP body, in light grey (RAL7035) colour.

In case of PC: It is made of flame retardant **injection moulded polycarbonate (PC)** - suitable for 850°C glow wire test too-, the Polycarbonate has very high mechanical strength and allows us to reach an excellent shock resistance. In case of GRP: It is made of flame retardant **GRP - glass fibre reinforced polyester** - on request suitable for 850°C glow wire test too-, 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.

- **Diffuser:** Available in PC - injection moulded **opalised polycarbonate** (high mechanical strength and high heat and shock resistance). Thanks to its **enhanced impact resistance**, 870-Inspire +/- is especially suitable for applications, where a **high IK impact rating** at extreme ambient temperature is required.

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, 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 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 141 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

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

Icons: Person, Sun/Moon, Wi-Fi, PoE

870-INSPIRE +/-

Extra-long (double) lifetime of the driver, high luminous flux even at extreme ambient temperatures are your benefits.

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

In order to optimise the thermal management of the luminaire at high ambient temperatures, the driver is fixed to the gear tray with a **heat sink plate**. Thus heat sensitive LED components function properly **up to Ta +50 °C**.

The **gear tray**, made of white powder coated steel sheet according to **Zhaga** standards, is **integrated into the diffuser**. With 870-Inspire +/- - depending on customer requirements - we can reach different levels of luminous flux **up to 9800 lumen** with maximum **efficacy of 141 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 IP66.



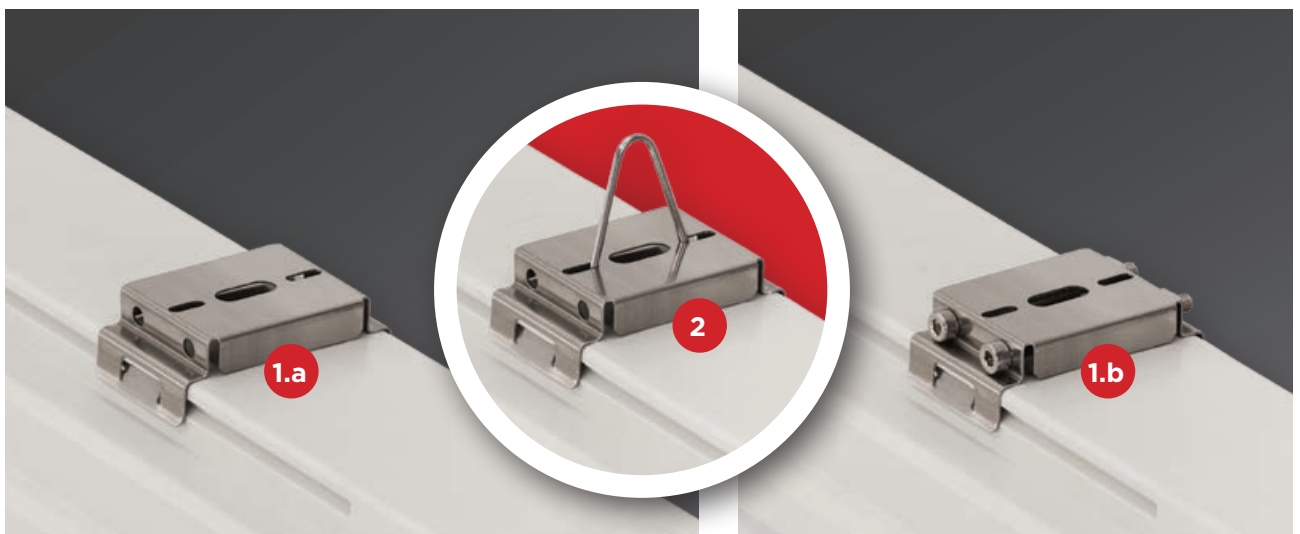
OPTIONS FOR CABLE ENTRY:

In case of **standard version** a **venting cable gland** is applied



The **Rapid Connector** enables the electrical connection **without disassembling** the luminaire. In case of throughwiring version, with the usage of **rapid connectors on the two ends**, a **venting plug** is applied.

Thanks to the **venting cable gland** or the **venting plug** the **condensation of the humidity** inside the luminaire can be **avoided**.



Ways of installing (options):

1. 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)

PC Type	Power (W)	Warranty (years)	Luminare total luminous flux - emitted (lm)	Lum. efficacy (lm/W)	Correlated colour temp (Kelvin)	CRI	Lifetime L70B50 (Ta=50°C)	Lifetime L80B10 (Ta=50°C)	A (mm)	B (mm)	Weight (kg)
870 Philips Fortimo HV6 HF with Philips driver											
870 4ft (1200mm)	59	5 years	8200	138	4000	>80	>100 000 h*	>64 000 h*	1174	700 +/- 76	2
870 5ft (1500mm)	70	5 years	9800	141	4000	>80	>100 000 h*	>64 000 h*	1454	1000 +/- 76	2,2



870-INSPIRE +/-

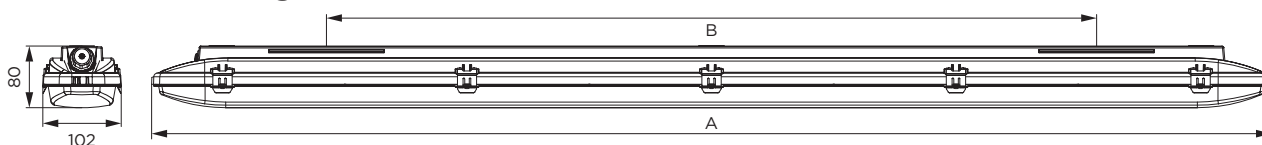
Further options:



On request:

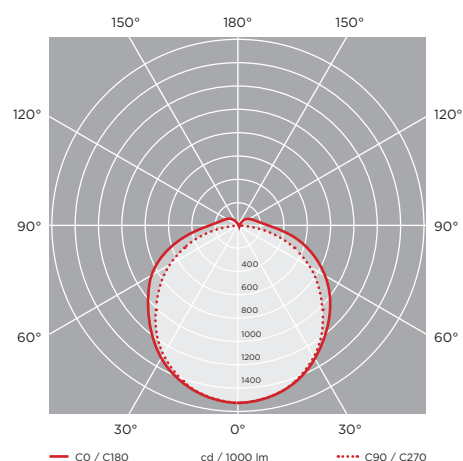


Schematic drawing with main dimensions

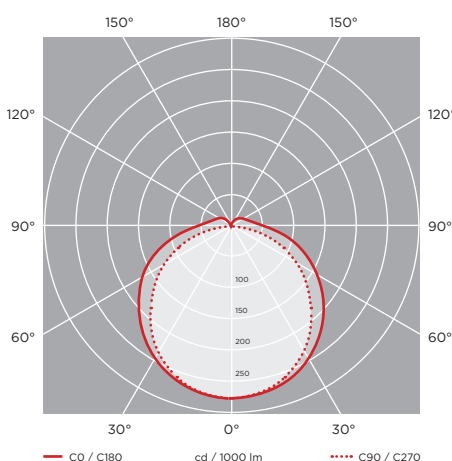


Photometric curves:

870-Inspire +/-, opal PC, 4ft,
Philips Fortimo HV6 HF, 59W, 8200 lm



870-Inspire +/-, opal PC, 5ft,
Philips Fortimo HV6 HF, 70W, 9800 lm



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

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:

Due to the construction principles of gasket, closing system and 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. 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.
 - **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 through 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. Feel free to choose from our two types of slightly different diffuser designs.



A the **original** diffuser design



B the **modified oval** variant

LED

870-INSPIRE AIR

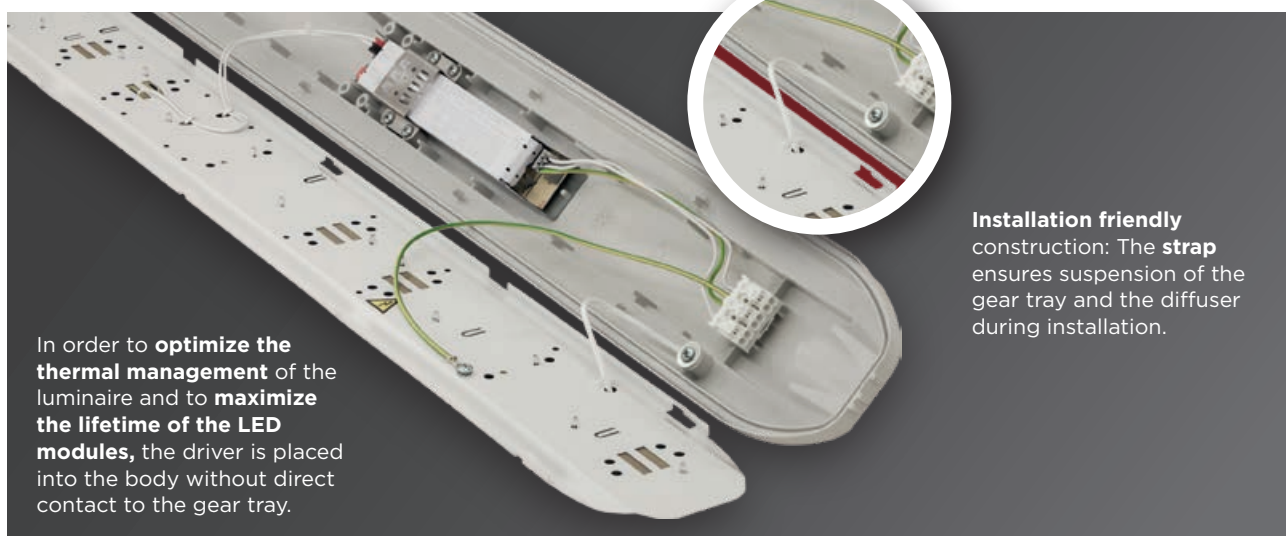


The **stainless steel clips** stay in their position during installation and can be released by bare hands.

Compatible with all optional accessories and smart solutions!



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.

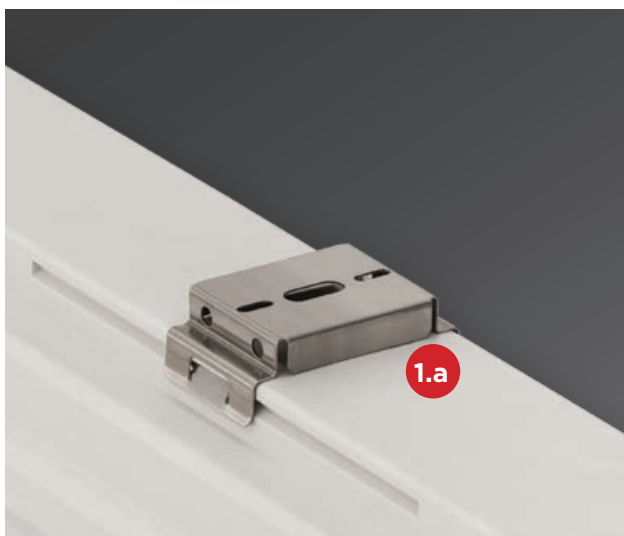
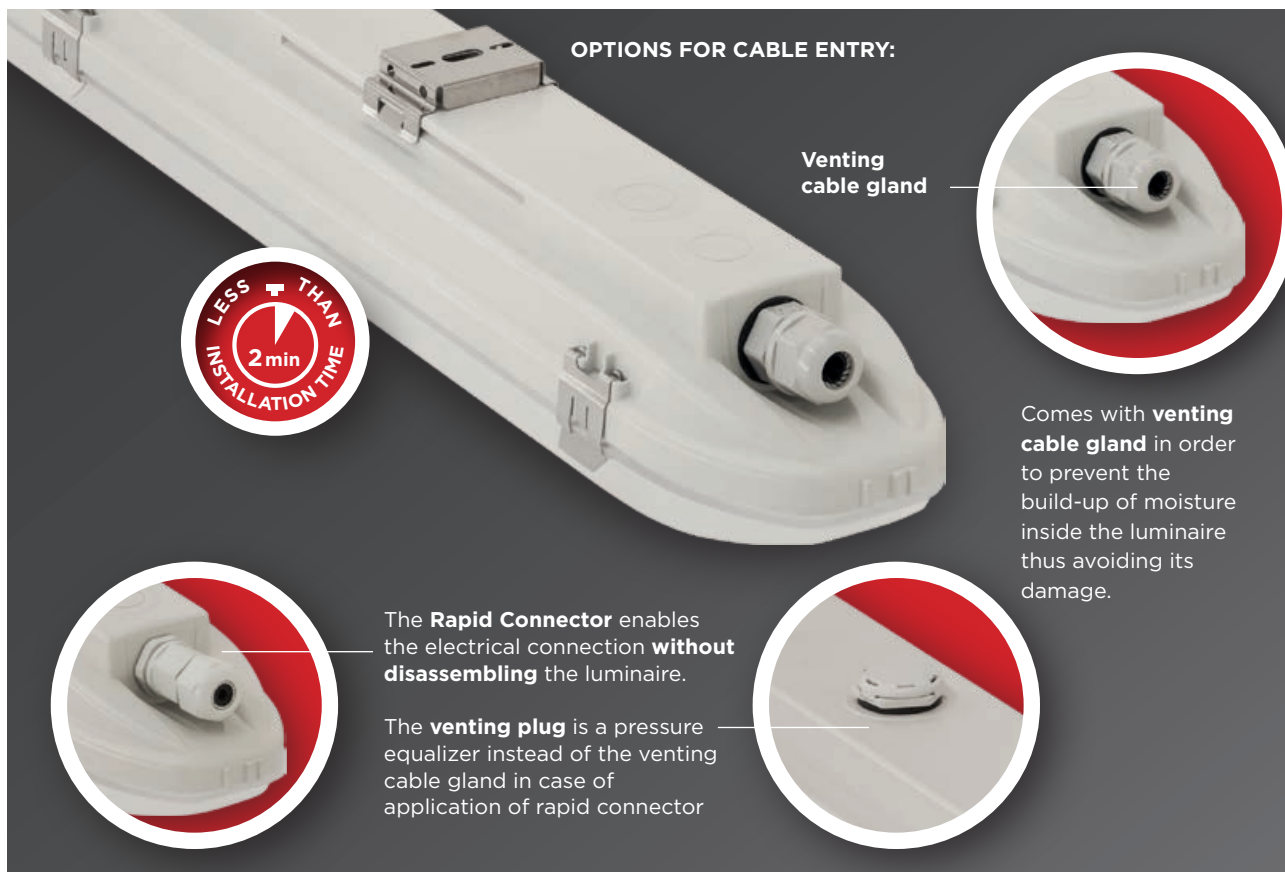


In order to **optimize the thermal management** of the luminaire and to **maximize the lifetime of the LED modules**, the driver is placed into the body without direct contact to the gear tray.

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 Air** - depending on customer requirements - we can reach different levels of luminous flux from 2700 **up to 14500 lumen** with maximum **efficacy up to 160 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 IP66.



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)

PMMA Type	Power (W)	Warranty (years)	Luminare total luminous flux - emitted (lm)	Lum. efficacy (lm/W)	Correlated colour temp (Kelvin)	CRI	Lifetime L70B50 (Ta=45°C)	Lifetime L80B10 (Ta=45°C)	A (mm)	B (mm)	Weight (kg)
Lumnium EU 130 with Osram driver											
870 4ft (1200mm)	24	2 years	3400	142	4000	>80	> 72 000 h *	> 50 000 h *	1174	700 +/- 76	2
870 5ft (1500mm)	30	2 years	4300	143	4000	>80	> 72 000 h *	> 50 000 h *	1454	1000 +/- 76	2,2
870 4ft (1200mm)	37	2 years	5200	140	4000	>80	> 72 000 h *	> 50 000 h *	1174	700 +/- 76	2
870 5ft (1500mm)	51	2 years	7000	137	4000	>80	> 72 000 h *	> 50 000 h *	1454	1000 +/- 76	2,2

Lumnium EU PRO 160 with Osram driver

870 4ft (1200mm)	22	2 years	3450	157	4000	>80	> 72 000 h	> 50 000 h	1174	700 +/- 76	2
870 5ft (1500mm)	27	2 years	4200	157	4000	>80	> 72 000 h	> 50 000 h	1454	1000 +/- 76	2,2
870 4ft (1200mm)	32	2 years	5000	158	4000	>80	> 72 000 h	> 50 000 h	1174	700 +/- 76	2
870 5ft (1500mm)	44	2 years	7000	160	4000	>80	> 72 000 h	> 50 000 h	1454	1000 +/- 76	2,2

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

with DIP Switch PMMA Type	Power (W)	Warranty (years)	Luminare total luminous flux - emitted (lm)	Lum. efficacy (lm/W)	Correlated colour temp (Kelvin)	CRI	Lifetime L70B50 (Ta=45°C)	Lifetime L80B10 (Ta=45°C)	A (mm)	B (mm)	Weight (kg)
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Lumnium EU 160 with Osram driver

870 4ft (1200mm)	19	2 years	3000	162	4000	>80	> 72 000 h	> 50 000 h	1185	700±78	2
	23		3700								
	27		4500								
	32		5200								
870 5ft (1500mm)	25	2 years	4100	163	4000	>80	> 72 000 h	> 50 000 h	1477	1000±78	2,2
	32		5200								
	38		6200								
	44		7200								

PMMA Type	Power (W)	Warranty (years)	Luminare total luminous flux - emitted (lm)	Lum. efficacy (lm/W)	Correlated colour temp (Kelvin)	CRI	Lifetime L70B50 (Ta=35°C)	Lifetime L80B10 (Ta=35°C)	A (mm)	B (mm)	Weight (kg)
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Lumnium EU PRO 140 HF with Philips driver

870 4ft (1200mm)	61	2 years	8300	136	4000	>80	> 72 000 h	> 50 000 h	1174	700 +/- 76	2
870 5ft (1500mm)	77	2 years	10400	135	4000	>80	> 72 000 h	> 50 000 h	1454	1000 +/- 76	2,2

Philips Fortimo HV6

870 4ft (1200mm)	60	2 years	8800	146	4000	>80	> 100 000 h	> 64 000 h	1174	700 +/- 76	2
870 5ft (1500mm)	75	2 years	11000	146	4000	>80	> 100 000 h	> 64 000 h	1454	1000 +/- 76	2,2

Philips Fortimo HV6 HF 3klm/ft

870 4ft (1200mm)	74	2 years	11300	152	4000	>80	> 100 000 h	> 64 000 h	1174	700 +/- 76	2
870 5ft (1500mm)	92	2 years	14000	152	4000	>80	> 100 000 h	> 64 000 h	1454	1000 +/- 76	2,2

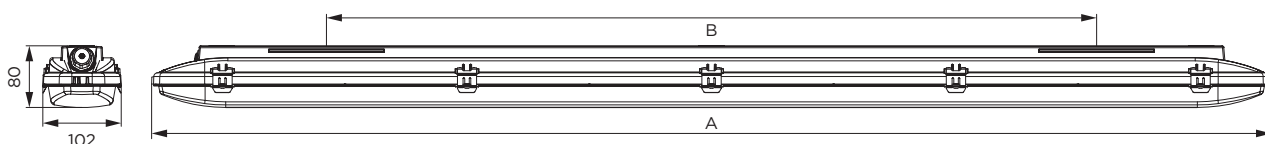
Further options:



On request:

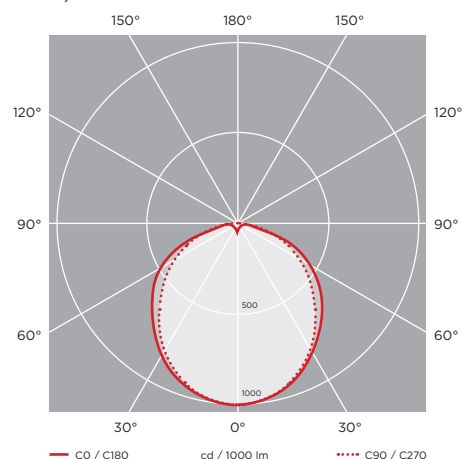


Schematic drawing with main dimensions

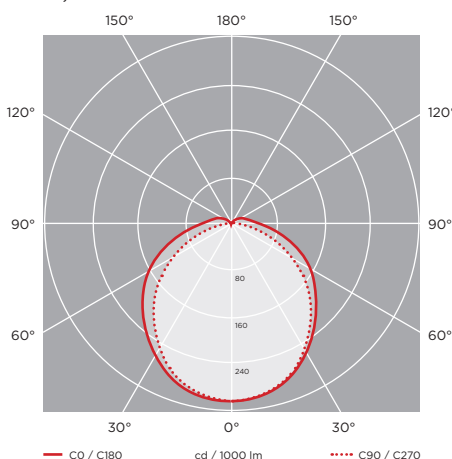


Photometric curves:

870-Inspire Air, 4ft, Lumnium EU 130, 24W, 3400 lm



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



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

870-FARMER

High-end dust and waterproof luminaires with LED modules.

Synergy of art and technology.

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.



870-FARMER



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, as well as the silicone gasket is recommended.

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, 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.

■ **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:** **silicon-based endless foam** with enhanced resistance.

■ **Fixing the diffuser to the body:** with highly resistant **tamper-proof clips made of stainless steel.**

■ **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 90%**. This great light permeability offers **high efficacy (up to 160 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

870-FARMER

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.

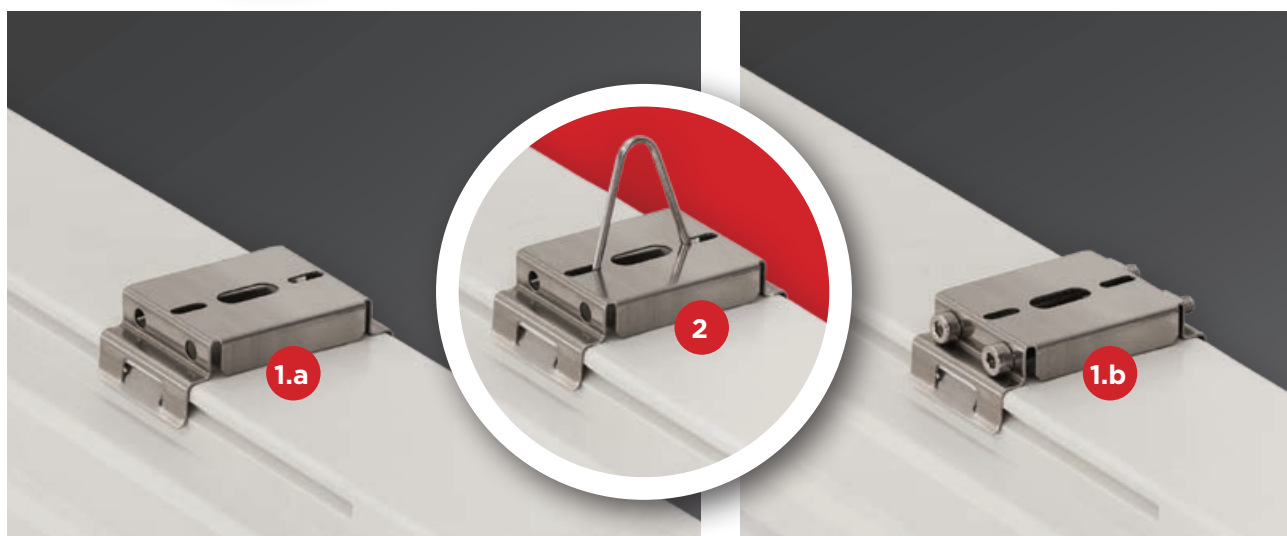
In order to **optimize the thermal management** of the luminaire and to **maximize the lifetime of the LED modules**, the driver is placed into the body without direct contact to the gear tray.

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 154 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 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, **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)

PMMA Type	Power (W)	Warranty (Years)	Luminare total luminous flux - emitted (lm)	Lum. efficacy (lm/W)	Correlated colour temp (Kelvin)	CRI	Lifetime L70B50 (Ta=35°C)	Lifetime L80B10 (Ta=35°C)	A (mm)	C (mm)	Weight (kg)
Lumnium3 Farmer HV											
870 4ft (1200mm)	23	3 years	3800	164	4000	>80	>50.000 h	>50.000 h	1277	700	2
870 5ft (1500mm)	33	3 years	5000	152	4000	>80	>50.000 h	>50.000 h	1577	1000	2,2
870 5ft (1500mm)	43	3 years	6600	154	4000	>80	>50.000 h	>40.000 h	1577	1000	2,2
Lumnium5 Farmer HV											
870 4ft (1200mm)	23	5 years	3800	164	4000	>80	>50.000 h	>50.000 h	1277	700	2
870 5ft (1500mm)	33	5 years	5000	152	4000	>80	>50.000 h	>50.000 h	1577	1000	2,2
870 5ft (1500mm)	43	5 years	6600	154	4000	>80	>50.000 h	>40.000 h	1577	1000	2,2

Other colour temperatures available on request

LED

870-FARMER

Further options:



On request:

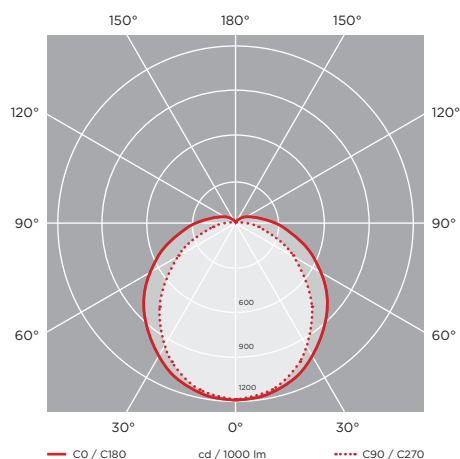


Schematic drawing with main dimensions

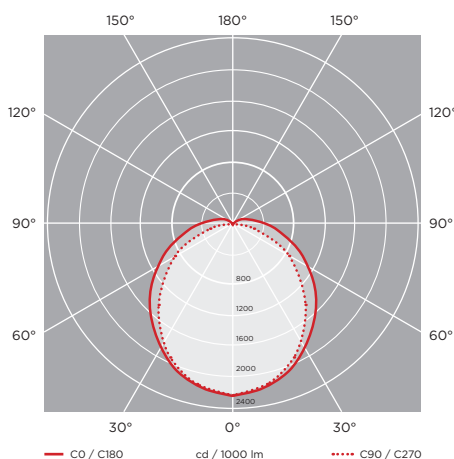


Photometric curves:

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 page 5



771-FAVOURITE

Industrial dust and waterproof luminaires with LED modules

Now with a new, opalised diffuser with unique light transmissivity!
Specially developed for LED applications



FIELD OF APPLICATION:

Thanks to the construction principles of gasket, closing system and diffuser our LED fixtures ensure a high grade of protection (IP65, IP66 or IP67) against dust, contamination and water permeation. In accordance with their IP grade they can be widely used to illuminate spaces with dusty and humid environment.

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

TECHNICAL DESCRIPTION AND BENEFITS:

- **Housing:** It is made of flame retardant 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.
- **Diffuser:** Our LED luminaires with **opal** diffuser offer you:
 - **extremely high light efficiency** through high **light permeability, unique on the market**, (up to 93% light transmissivity)
 - an **excellent light uniformity** through **well-balanced light dispersing** (no shadows)
 - **elimination of the dazzling effect** (no glare)
 - **aesthetical appearance (no dots of the single LEDs)**
 - **keeping the usual, well-known features of the diffuser** such as chemical and heat resistance, mechanical features, **UV stabilization** etc.

Available in PC - injection moulded **Polycarbonate** (high mechanical strength and high heat and shock resistance) **or in Acrylic** - injection moulded **PMMA** (unique non-aging properties, high chemical resistance).

- 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 highly resistant clips made of **stainless steel** (standard or tamper-proof).
- **Gear tray (reflector):** White powder coated steel sheet according to **Zhaga** standards or customised.
- **Electrical components:** The adequate power supply is ensured through electronic driver, that is built into the luminaire.

Main technical options

Our opal diffuser has an **outstanding light transmissivity** up to **93%**. With this great light permeability, it is an **excellent choice for luminaires equipped with LED modules**.



Usual stainless steel clips for **SELV** (Safety Extra Low Voltage) solutions.

The opal diffusers are made of UV stabilized **opalised** material, specially developed for LED applications. This ensures among others a well-balanced light distribution and the **elimination of glare**.

The special tamper-proof stainless steel clips for **non-SELV (HV)** solutions can not be released with bare hands.



With 771-Favourite - depending on customer requirements - we can reach different levels of luminous flux (lumen) as well as luminous efficacy (lm/Watt). Details see: Technical data.



In order to optimise the thermal management of the luminaire we avoid the direct contact of the gear tray and driver, thus increasing the lifetime of the modules and driver.



LED Version with motion sensor



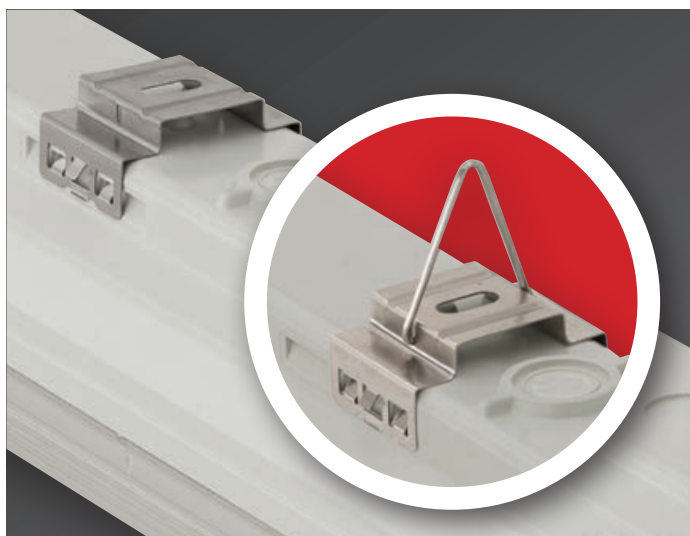
The gear tray is made of white powder coated steel sheet according to **Zhaga** standards. On request customisation possible.



Option: The **Rapid Connector** enables the electrical connection **without disassembling** the luminaire, thus **avoiding** a potential damage of the LED's inside the luminaire through **electrostatic discharge (ESD)**.

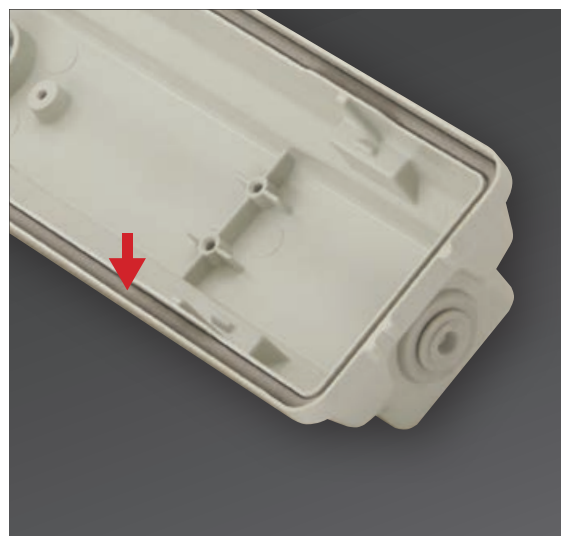


Light sources suffer from degradation in light output over time. The **CLO feature enables LED solutions to deliver constant lumen output through the life of the light engine.**



Ways of installing:

1. With stainless steel suspension brackets (easy-to-install) onto the ceiling.
2. Suspension on chains with stainless steel suspension brackets mounted with hooks.



In order to ensure **maximum heat**, chemical and weather **resistance** even under tough conditions, the **gasket** between the diffuser and housing is made of **silicon-based** foam with enhanced resistance.

Technical data (extract)

PMMA Type	Power (W)	Warranty (years)	Luminaire total luminous flux - emitted (lm)	Lum. efficacy (lm/W)	Correlated colour temp (Kelvin)	CRI	Lifetime L70B50 (Ta=35°C)	Lifetime L80B10 (Ta=35°C)	A (mm)	C (mm)	Weight (kg)
Lumnium EU 130 SO with Osram driver											
771 2ft (600mm)	24	5 years	3300	137	4000	>80	>72.000 h	> 50.000 h	669	360	1,3
771 4ft (1200mm)	25	5 years	3400	136	4000	>80	>72.000 h	> 50.000 h	1277	700	2,2
771 5ft (1500mm)	30	5 years	4200	140	4000	>80	>72.000 h	> 50.000 h	1577	1000	2,5
771 4ft (1200mm)	38	5 years	5100	134	4000	>80	>72.000 h	> 50.000 h	1277	700	2,2
771 5ft (1500mm)	51	5 years	7000	137	4000	>80	>72.000 h	> 50.000 h	1577	1000	2,5
Lumnium EU PRO 160 SO with Osram driver											
771 4ft (1200mm)	22	5 years	3300	150	4000	>80	>72.000 h	> 50.000 h	1277	700	2,2
771 5ft (1500mm)	27	5 years	4200	155	4000	>80	>72.000 h	> 50.000 h	1577	1000	2,5
771 4ft (1200mm)	31	5 years	4800	155	4000	>80	>72.000 h	> 50.000 h	1277	700	2,2
771 5ft (1500mm)	41	5 years	6500	158	4000	>80	>72.000 h	> 50.000 h	1577	1000	2,5
Lumnium EU PRO 140 HF with Philips driver											
771 4ft (2x1200mm)*	58	5 years	8000	138	4000	>80	>72.000 h	> 50.000 h	1277	700	2,65
771 5ft (2x1500mm)*	73	5 years	10200	140	4000	>80	>72.000 h	> 50.000 h	1577	1000	3
Osram Basic Linear G3											
771 2ft (600mm)	21	5 years	2400	119	4000	>80	>50.000 h	>41.000 h	669	360	1,3
771 4ft (1200mm)	23	5 years	2900	124	4000	>80	>50.000 h	>50.000 h	1277	700	1,8
771 5ft (1500mm)	28	5 years	3700	132	4000	>80	>50.000 h	>50.000 h	1577	1000	2,2
771 4ft (1200mm)	28	5 years	3900	140	4000	>80	>50.000 h	>45.000 h	1277	700	2
771 5ft (1500mm)	35	5 years	4700	136	4000	>80	>50.000 h	>50.000 h	1577	1000	2,2
771 4ft (2x1200mm)*	39	5 years	5300	135	4000	>80	>50.000 h	>43.000 h	1277	700	2,5
771 5ft (2x1500mm)*	47	5 years	6800	144	4000	>80	>50.000 h	>43.000 h	1577	1000	2,7
Philips Fortimo LED Strip LV5											
771 2ft (600mm)	15	5 years	2100	138	4000	>80	>72.000 h	> 50.000 h	669	360	1,7
771 4ft (1200mm)	31	5 years	4500	143	4000	>80	>72.000 h	> 50.000 h	1277	700	2,2
771 5ft (1500mm)	38	5 years	5400	142	4000	>80	>72.000 h	> 50.000 h	1577	1000	2,5
771 5ft (2x1500mm)*	49	5 years	6900	140	4000	>80	>72.000 h	> 50.000 h	1577	1000	2,7
Philips Fortimo LED Strip HV6											
771 4ft (2x1200mm)*	56	5 years	8300	150	4000	>80	>100.000 h	> 64.000 h	1277	700	2,65
771 5ft (2x1500mm)*	70	5 years	10500	150	4000	>80	>100.000 h	> 64.000 h	1577	1000	3
771 4ft (2x1200mm)*	66	5 years	10000	153	4000	>80	>100.000 h	> 64.000 h	1277	700	2,65
771 5ft (2x1500mm)*	83	5 years	12700	153	4000	>80	>100.000 h	> 64.000 h	1577	1000	3

* The LED strips are placed in one line in a twin (wider) housing.

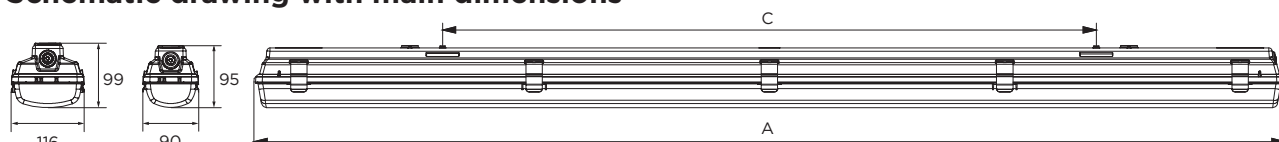
Further options:



On request:

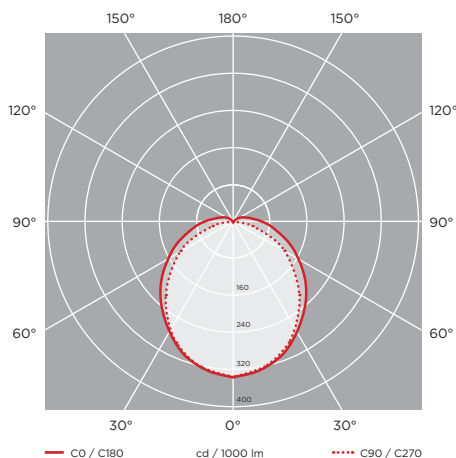


Schematic drawing with main dimensions



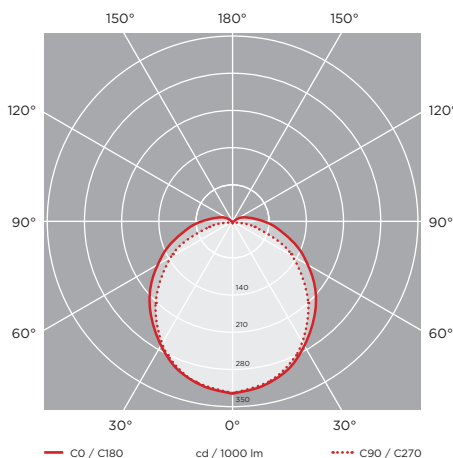
Photometric curves:

771-Favourite, 5ft (2x1500mm),
Osram Basic Linear G3, 47W, 6800lm, PMMA



Photometric curves:

771-Favourite, 5ft (2x1500mm),
Philips Fortimo LED Strip HV6, 70W, 10500lm, PMMA



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

771-ORIENT +50°C

Industrial dust and waterproof luminaires with LED modules

771-Orient is available in the following sizes: 1200mm, 1500mm. Available in IP65

YOUR MAIN BENEFITS:

A professional luminaire for wide usage, that fulfils the strongest quality requirements. Especially for applications where **high heat resistance (up to Ta +50 °C)** is required.



FIELD OF APPLICATION:

Due to the construction principles of gasket, closing system and diffuser our fixtures ensure a high grade of protection (IP65) against dust, contamination and water permeation. In accordance with their IP grade they can be used widely to illuminate spaces with dusty and humid environment. Thanks to its **enhanced heat resistance**, 771-Orient is especially suitable for applications, where **error-free functioning at higher ambient temperature** is desired.

When using outdoors, the fittings should be protected against direct sunlight and adverse weather conditions.

TECHNICAL DESCRIPTION AND BENEFITS:

- **Housing:** It is made of flame retardant glass fibre reinforced polyester (on request suitable for 850°C glow wire test too), in light grey (RAL7035) colour. This material 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.
- The **diffuser** is available in injection moulded **opal polycarbonate (PC)** with extremely high light permeability and well-balanced light dispersing. Main advantages: High mechanical strength and high heat and shock resistance and excellent transparency.

The diffusers are designed with respect to their optical characteristics and are **UV resistant**.

- In order to ensure maximum heat, chemical and weather resistance even under tough conditions, the gasket between the diffuser and housing is made of **silicon-based foam** with enhanced resistance.
- **Fixing the diffuser to the body:** with highly resistant stainless steel clips
- **Gear tray (reflector):** White powder coated steel sheet according to Zhaga standards or customised.
- **Electrical components:** in accordance with the requested specification suitable for LED technology, details see under technical data.

LED

CE

771-ORIENT +50 °C

IP65



Option:



Main technical options

Our new opal diffuser has an **outstanding light transmissivity of more than 90%**. With this great light permeability, it is an **excellent choice for luminaires equipped with LED modules**.



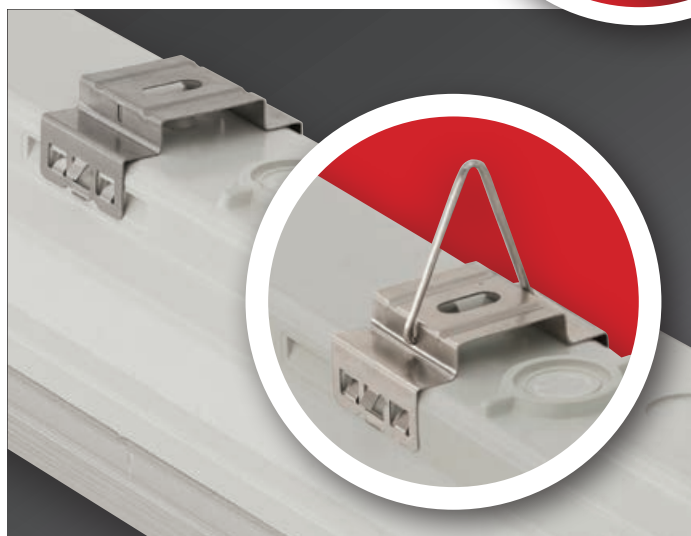
771-ORIENT +50 °C



Fixing of the diffuser to the body: With highly resistant stainless steel clips. Optionally tamper-proof clips available on request.

The opal diffusers are made of UV stabilized **opalised** material, specially developed for LED applications. This ensures among others a well-balanced light distribution and the **elimination of glare**.

Moreover the diffuser made of injection moulded polycarbonate (PC) excels at highest **impact resistance of IK10**.



Ways of installing:

1. With stainless steel suspension brackets (easy-to-install) onto the ceiling.
2. Suspension on chains with stainless steel suspension brackets mounted with hooks.



Depending on customer requirements we can reach different levels of luminous flux (lumen) and high luminous efficacy (lm/Watt) of our LED luminaires. Details see attached overview.



The gear tray is made of white powder coated steel sheet according to **Zhaga** standards. On request customisation possible.



Option: The **Rapid Connector** enables the electrical connection **without disassembling** the luminaire, thus **avoiding** a potential damage of the LED's inside the luminaire through **electrostatic discharge** (ESD).



771-ORIENT +50 °C



In order to optimise the thermal management of the luminaire at high ambient temperatures, the driver is fixated to the gear tray with a heat sink plate. Thus heat sensitive LED components function properly up to $T_a +50^{\circ}\text{C}$.



In order to ensure **maximum heat**, chemical and weather **resistance** even under tough conditions, the **gasket** between the diffuser and housing is made of **silicon-based** foam with enhanced resistance.

Technical data (extract)

PC Type	Power (W)	Warranty (years)	Luminare total luminous flux - emitted (lm)	Lum. efficacy (lm/W)	Correlated colour temp (Kelvin)	CRI	Lifetime L70B50 (Ta=50°C)	Lifetime L80B10 (Ta=50°C)	A (mm)	C (mm)	Weight (kg)
Philips Fortimo LED Strip LV											
771 4ft (1200mm)	26	5 years	3400	132	4000	>80	>70.000 h	>50.000 h	1277	700	2,2
771 5ft (1500mm)	31	5 years	4200	135	4000	>80	>70.000 h	>50.000 h	1577	1000	2,5
771 5ft (2x1500mm)*	39	5 years	5 200	134	4000	>80	>70.000 h	>50.000 h	1577	1000	2,7
Philips Fortimo LED Strip HV6											
771 4ft (2x1200mm)*	59	5 years	8 100	137	4000	>80	>50.000 h	>50.000 h	1277	700	2,65
771 5ft (2x1500mm)*	70	5 years	9 900	141	4000	>80	>50.000 h	>50.000 h	1577	1000	3

* The LED strips are placed in one line in a twin (wider) housing.

Other colour temperatures available on request

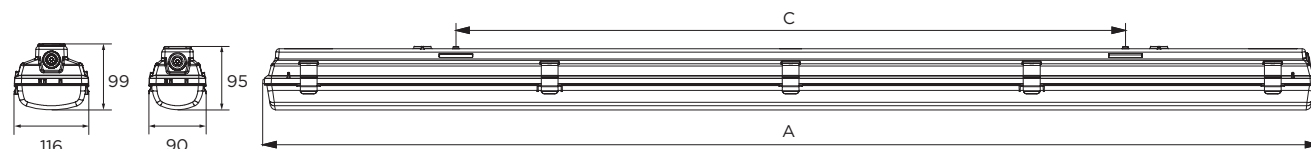
Further options:



On request:

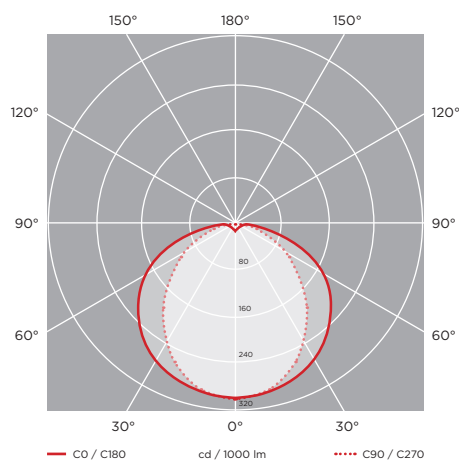


Schematic drawing with main dimensions

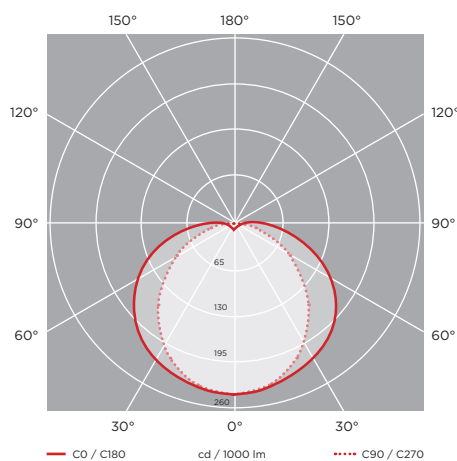


Photometric curves:

771-Orient +50°C 4ft 1200mm, Philips Fortimo LED Strip LV5, 26W, 3400lm, PC



771-Orient +50°C 5ft (2x1500mm)*, Philips Fortimo LED Strip HV6, 70W, 9900lm, PC



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

771-EXTREME -30°C

Industrial dust and waterproof luminaires with LED modules for ambient temperature down to Ta -30 °C

With a new, opalised diffuser with unique light transmissivity! Specially developed for LED applications

YOUR MAIN BENEFITS:

The shape of 771-Favourite adapted for **extremely low (-30°C)** ambient temperatures.



FIELD OF APPLICATION:

Thanks to the construction principles of gasket, closing system and diffuser our LED fixtures ensure a high grade of protection (IP65, IP66) against dust, contamination and water permeation even at extremely low ambient temperature. In accordance with their IP grade they can be widely used to illuminate spaces with dusty, humid environment down to Ta -30 °C.

TECHNICAL DESCRIPTION AND BENEFITS:

- **Diffuser:** Our LED luminaires with opal diffuser offer you:
 - very good light efficiency through high light permeability, (up to 90% light transmissivity)
 - the usual, well-known features of the diffuser such as chemical and heat resistance, mechanical features, UV stabilization etc.Available in PC - injection moulded **Polycarbonate**.
Main advantages: high mechanical strength and high heat and shock resistance
- **Housing:** It is made of flame retardant 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.
- In order to ensure maximum temperature, chemical and weather resistance even under tough conditions, the **gasket** between the diffuser and housing is made of **silicon-based** foam with enhanced durability.
- **Fixing of the diffuser to the body:** with highly resistant stainless steel clips (standard or tamper-proof version).
- **Gear tray (reflector):** White powder coated steel sheet according to **Zhaga** standards or customised.
- **Electrical components:** in accordance with the requested specification suitable for LED technology, details see under technical data.

LED

CE

771-EXTREME -30°C

IP65



Option:

IP66



Main technical options



In order to ensure maximum heat, chemical and weather resistance even under tough conditions, the gasket between the diffuser and housing is made of silicon-based foam with enhanced durability.



Quick installation with stainless steel suspension brackets.



Comes with venting cable gland in order to prevent the build-up of moisture inside the luminaire thus avoiding its damage.

The opal diffusers are made of UV stabilized **opalised** material, specially developed for LED applications. This ensures among others a well-balanced light distribution and the elimination of glare.



Technical data (extract)

PC Type	Power (W)	Warranty (years)	Luminare total luminous flux - emitted (lm)	Lum. efficacy (lm/W)	Correlated colour temp (Kelvin)	CRI	Lifetime L70B50 (Ta=-30°C)	Lifetime L80B10 (Ta=-30°C)	A (mm)	C (mm)	Weight (kg)
Philips Fortimo LED Strip HV6											
771 4ft (2x1200mm)*	55	5 years	7800	141	4000	>80	>50.000 h	>50.000 h	1277	700	2,65
771 5ft (2x1500mm)*	70	5 years	9900	141	4000	>80	>50.000 h	>50.000 h	1577	1000	3

* The LED strips are placed in one line in a twin (wider) housing.

Other colour temperatures available on request

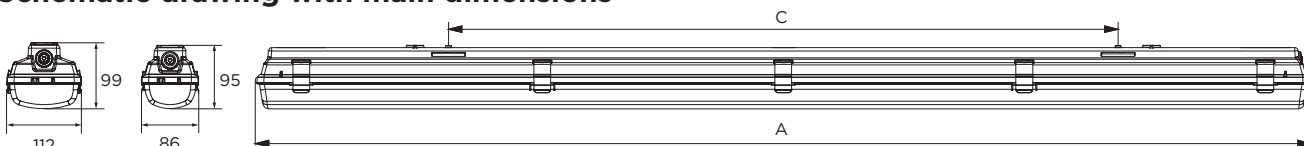
Further options:



On request:

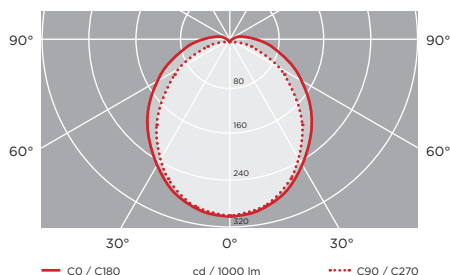


Schematic drawing with main dimensions

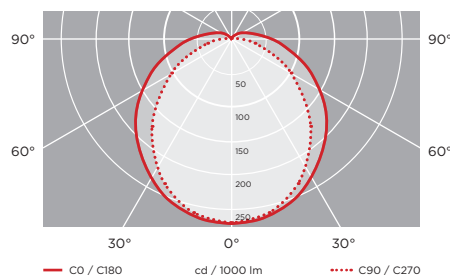


Photometric curves:

771-Extreme -30°C 2x1200mm 56W
Philips Fortimo LED PC HV5



771-Extreme -30°C 2x1500mm 73W
Philips Fortimo LED PC HV5



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

771-VENTILA

Industrial dust and waterproof luminaires with LED modules

771-Ventila is available in the following sizes: 1x600mm, 1x1200mm, 1x1500mm, 2x600mm, 2x1200mm, 2x1500mm

YOUR MAIN BENEFITS:

A professional solution especially **for outdoor applications**. 771-Ventila withstands the impact of adverse weather conditions (sunlight, rain, wind etc.). Ta = -20 to +35°C

Full range available in IP65 or IP66.



FIELD OF APPLICATION:

Due to the construction principles of gasket, closing system and diffuser our fixtures ensure a high grade of protection (IP65, 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**, 771-Ventila is especially suitable for applications, where **error-free functioning in outdoor conditions** is desired.

TECHNICAL DESCRIPTION AND BENEFITS:

- **Housing:** It is made of flame retardant glass fibre reinforced polyester (on request suitable for 850°C glow wire test too), in light grey (RAL7035) colour. This material 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.
- The **diffuser** is available in injection moulded **opal acrylic (PMMA)** with extremely high light permeability and well-balanced light dispersing.
Main advantages: **weather resistance** and extremely high light efficiency.
- The diffusers are designed with respect to their optical characteristics and are **UV resistant**.
- In order to ensure **maximum heat**, chemical and weather **resistance** even under tough conditions, the **gasket** between the diffuser and housing is made of **silicon-based foam** with enhanced durability.
- **Fixing of the diffuser to the body:** with highly resistant stainless steel clips (standard or tamper-proof version).
- **Gear tray** (reflector): White powder coated steel sheet according to **Zhaga** standards or customised.
- **Electrical components:** in accordance with the requested specification suitable for LED technology, details see under technical data.

LED

CE

771-VENTILA

IP65



Option:

IP66



Main technical options

Our opal diffuser has an **outstanding light transmissivity of more than 93%**. With this great light permeability, it is an **excellent choice for luminaires equipped with LED modules**.



The opal diffusers are made of UV stabilized **opalised** material, specially developed for LED applications. This ensures among others a well-balanced light distribution and the **elimination of glare**.

Fixing of the diffuser to the body: With highly resistant stainless steel clips. Optionally tamper-proof clips available on request.



The gear tray is made of white powder coated steel sheet according to **Zhaga** standards. On request customisation possible.

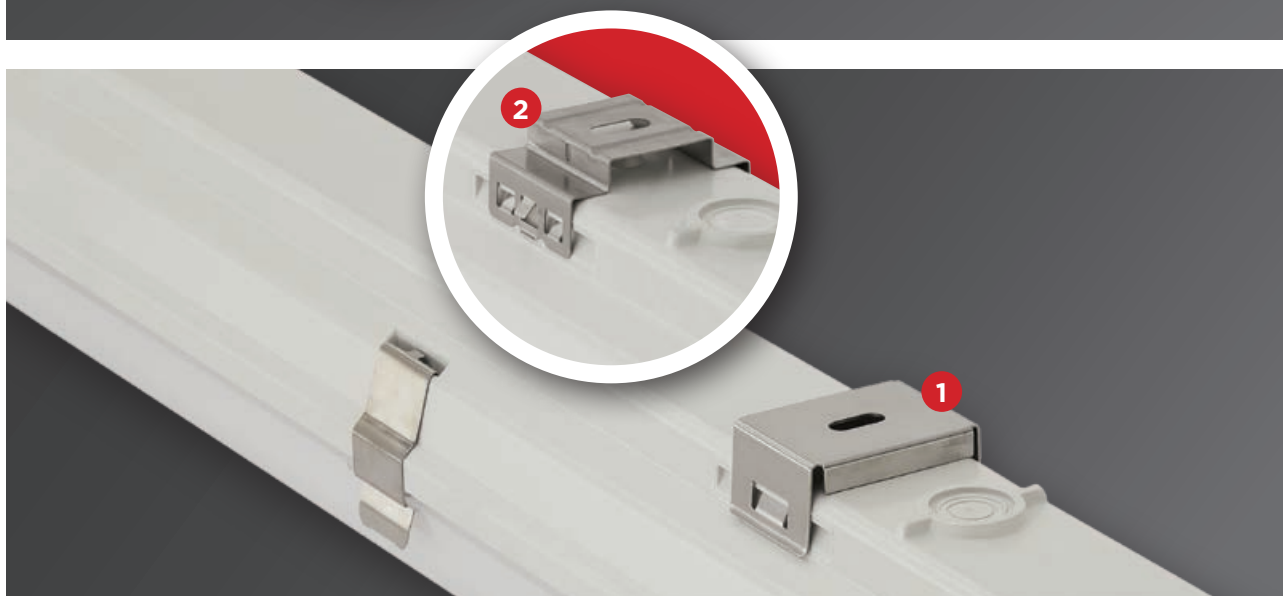


Depending on customer requirements we can reach different levels of luminous flux (lumen) and high luminous efficacy (lm/Watt) of our LED luminaires. Details see attached overview.

In order to ensure **maximum** heat, chemical and **weather resistance** even under tough conditions, the **gasket** between the diffuser and housing is made of **silicon-based** foam with enhanced durability.



Comes with **venting cable gland** in order to prevent the build-up of moisture inside the luminaire thus avoiding its damage.



Ways of installing:

1. In order to withstand the outdoor weather conditions (wind, storm), we recommend to use **strengthened** stainless steel suspension brackets. They are easy to install onto the **wall and ceiling**.
2. **Usual** suspension brackets, suitable for installation onto the **ceiling**, are available on request.

Technical data (extract)

PMMA Type	Power (W)	Warranty (years)	Luminare total luminous flux - emitted (lm)	Lum. efficacy (lm/W)	Correlated colour temp (Kelvin)	CRI	Lifetime L70B50 (Ta=35°C)	Lifetime L80B10 (Ta=35°C)	A (mm)	C (mm)	Weight (kg)
Lumnium EU 130 SO with Osram driver											
771 2ft (600mm)	24	2 years	3300	137	4000	>80	>72.000 h	>50.000 h	669	360	1,3
771 4ft (1200mm)	25	2 years	3400	136	4000	>80	>72.000 h	>50.000 h	1277	700	2,2
771 5ft (1500mm)	30	2 years	4200	140	4000	>80	>72.000 h	>50.000 h	1577	1000	2,5
771 4ft (1200mm)	38	2 years	5100	134	4000	>80	>72.000 h	>50.000 h	1277	700	2,2
771 5ft (1500mm)	51	2 years	7000	137	4000	>80	>72.000 h	>50.000 h	1577	1000	2,5

Lumnium EU PRO 160 SO with Osram driver											
771 4ft (1200mm)	22	2 years	3300	150	4000	>80	>72.000 h	>50.000 h	1277	700	2,2
771 5ft (1500mm)	27	2 years	4200	155	4000	>80	>72.000 h	>50.000 h	1577	1000	2,5
771 4ft (1200mm)	31	2 years	4800	155	4000	>80	>72.000 h	>50.000 h	1277	700	2,2
771 5ft (1500mm)	41	2 years	6500	158	4000	>80	>72.000 h	>50.000 h	1577	1000	2,5

Lumnium EU PRO 140 HF with Philips driver											
771 4ft (2x1200mm)*	58	2 years	8000	138	4000	>80	>72.000 h	>50.000 h	1277	700	2,65
771 5ft (2x1500mm)*	73	2 years	10200	140	4000	>80	>72.000 h	>50.000 h	1577	1000	3

Osram Basic Linear G3											
771 2ft (600mm)	21	2 years	2400	119	4000	>80	>50.000 h	>41.000 h	669	360	1,3
771 4ft (1200mm)	23	2 years	2900	124	4000	>80	>50.000 h	>50.000 h	1277	700	1,8
771 5ft (1500mm)	28	2 years	3700	132	4000	>80	>50.000 h	>50.000 h	1577	1000	2,2
771 4ft (1200mm)	28	2 years	3900	140	4000	>80	>50.000 h	>45.000 h	1277	700	2
771 5ft (1500mm)	35	2 years	4700	136	4000	>80	>50.000 h	>50.000 h	1577	1000	2,2
771 4ft (2x1200mm)*	39	2 years	5300	135	4000	>80	>50.000 h	>43.000 h	1277	700	2,5
771 5ft (2x1500mm)*	47	2 years	6800	144	4000	>80	>50.000 h	>43.000 h	1577	1000	2,7

Philips Fortimo LED Strip LV5											
771 2ft (600mm)	15	2 years	2100	138	4000	>80	>72.000 h	>50.000 h	699	360	1,7
771 4ft (1200mm)	31	2 years	4500	143	4000	>80	>72.000 h	>50.000 h	1277	700	2,2
771 5ft (1500mm)	39	2 years	5400	142	4000	>80	>72.000 h	>50.000 h	1577	1000	2,5
771 5ft (2x1500mm)*	49	2 years	6900	140	4000	>80	>72.000 h	>50.000 h	1577	1000	2,7

Philips Fortimo LED Strip HV6											
771 4ft (2x1200mm)*	56	2 years	8300	150	4000	>80	>100.000 h	>64.000 h	1277	700	2,65
771 5ft (2x1500mm)*	70	2 years	10500	150	4000	>80	>100.000 h	>64.000 h	1577	1000	3
771 4ft (2x1200mm)*	66	2 years	10000	153	4000	>80	>100.000 h	>64.000 h	1277	700	2,65
771 5ft (2x1500mm)*	83	2 years	12700	153	4000	>80	>100.000 h	>64.000 h	1577	1000	3

* The LED strips are placed in one line in a twin (wider) housing.

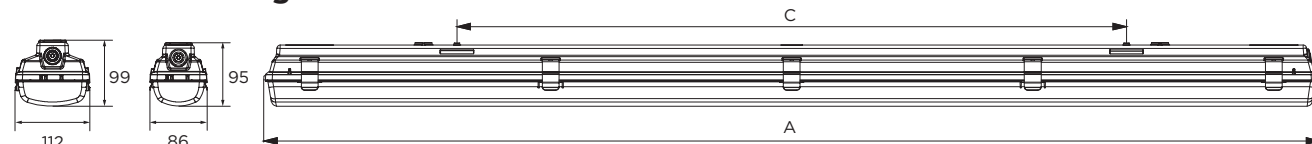
Further options:



On request:

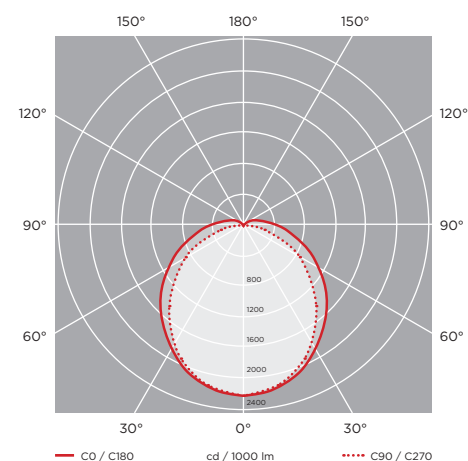


Schematic drawing with main dimensions

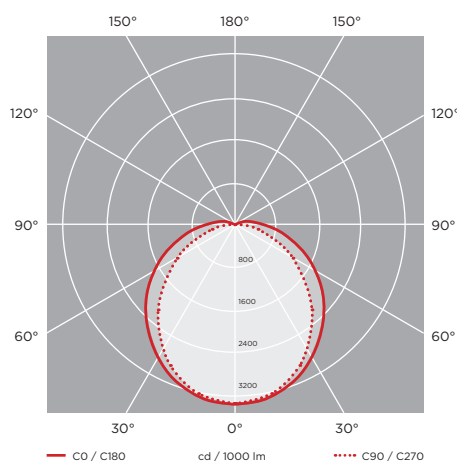


Photometric curves:

771-Ventila 5ft (2x1500mm)
Osram Basic Linear G3 47W 6800lm



771-Ventila 5ft (2x1500mm)
Philips Fortimo LED Strip HV6 70W 10500lm



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

771-FARMER

Industrial dust and waterproof luminaires with LED modules

Specially developed for farming industry and chemically aggressive environment!

YOUR MAIN BENEFITS:

Solution in high IP protection for **extremely harsh environment**. Heavily armed with special components for long-term **fight against chemicals**. Perfectly applicable in **agricultural industry**.



FIELD OF APPLICATION:

Thanks to the construction principles of gasket, closing system and diffuser our LED fixtures ensure a high grade of protection (IP 65, IP 66) against dust, contamination and water permeation. In accordance with their IP grade and high chemical resistance they are especially recommended for buildings where animals are kept and also for harsh environmental rooms.

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

TECHNICAL DESCRIPTION AND BENEFITS:

- **Housing:** It is made of flame retardant glass-fibre reinforced polyester, 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. Its stability of size and shape at changing temperatures is excellent.
- **Diffuser:** The diffuser is available in **injection moulded opal acrylic (PMMA)** with unique **non-aging** properties and **extremely high chemical resistance**.
- Our LED-luminaires with **opal** diffuser offer you:
 - **extremely high light transmissivity** (up to 93%) **unique on the market**
 - **homogenous, well-balanced light** (no shadows)
- **Gasket:** **silicon-based endless foam** with enhanced resistance
- **Fixing the diffuser to the body:** with highly resistant **tamper-proof clips made of stainless steel**
- **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**.

LED

CE

771-FARMER

IP65



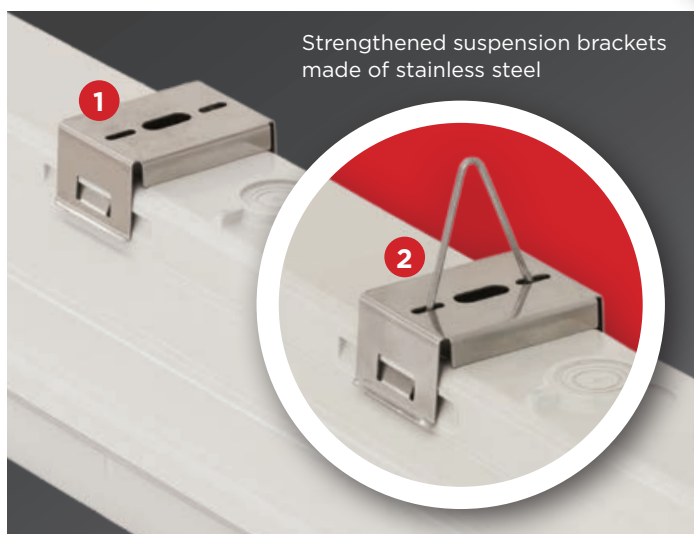
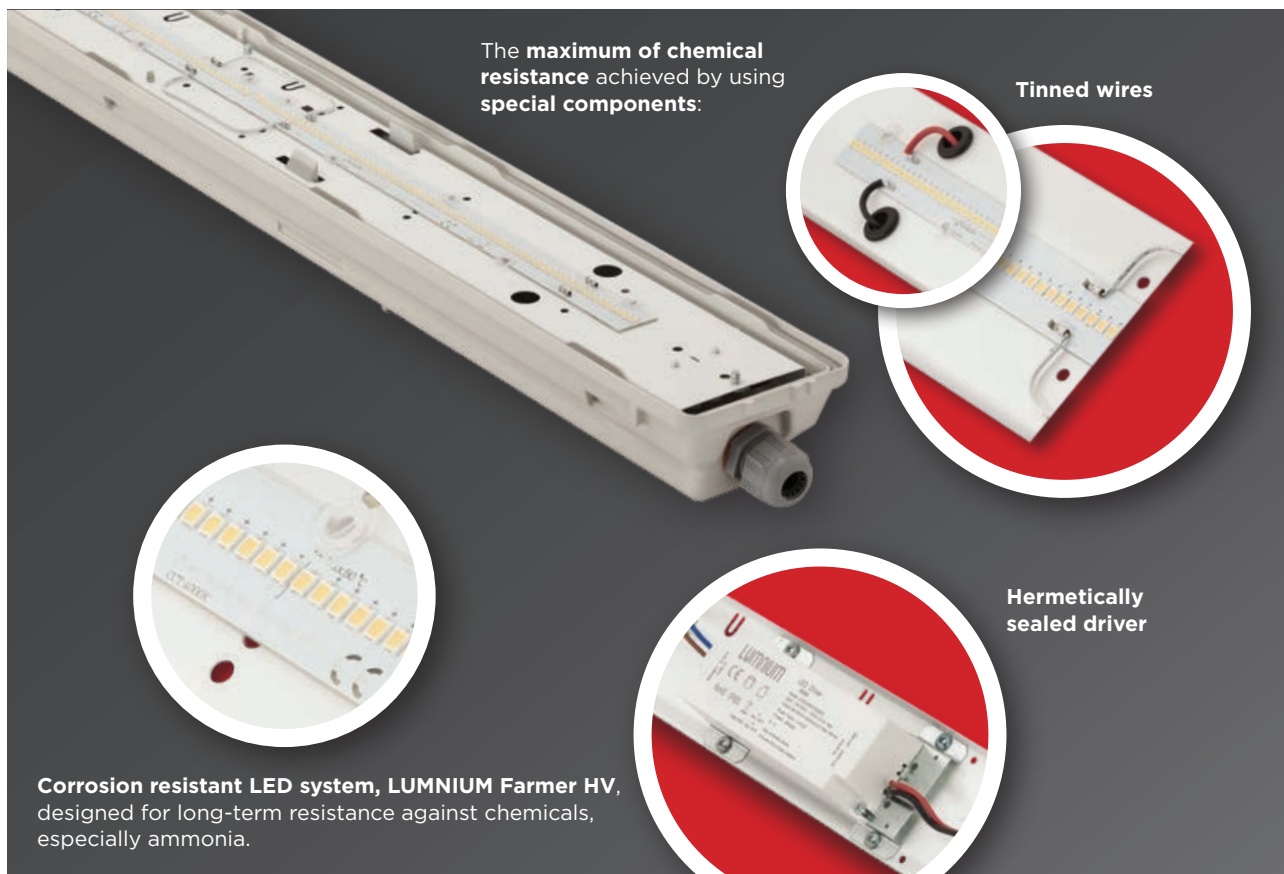
Option:

IP66



Main technical options

The opal diffuser has an **outstanding light transmissivity up to 93%**. Thanks to the wide beam angle, **homogenous illumination** even at low height of luminaire.



Ways of installing (options):

1. With stainless steel suspension brackets (easy-to-install) onto the ceiling.
2. Suspension on chains with stainless steel suspension brackets mounted with hooks.

Endless silicone foam as sealing with enhanced resistance and extreme durability

Technical data (extract)

PMMA Type	Power (W)	Warranty (Years)	Luminaire total luminous flux - emitted (lm)	Lum. efficacy (lm/W)	Correlated colour temp (Kelvin)	CRI	Lifetime L70B50 (Ta=35°C)	Lifetime L80B10 (Ta=35°C)	A (mm)	C (mm)	Weight (kg)
Lumnium3 Farmer HV											
771 2ft (600 mm)	14	3 years	1900	136	4000	>80	>50.000 h	>50.000 h	669	360	1,2
771 4ft (1200mm)	23	3 years	3800	164	4000	>80	>50.000 h	>50.000 h	1277	700	2
771 5ft (1500mm)	33	3 years	5000	152	4000	>80	>50.000 h	>50.000 h	1577	1000	2,2
771 5ft (2x1500mm)*	43	3 years	6600	154	4000	>80	>50.000 h	>40.000 h	1577	1000	2,2

Lumnium5 Farmer HV

771 2ft (600mm)	14	5 years	1900	136	4000	>80	>50.000 h	>50.000 h	669	360	1,2
771 4ft (1200mm)	23	5 years	3800	164	4000	>80	>50.000 h	>50.000 h	1277	700	2
771 5ft (1500mm)	33	5 years	5000	152	4000	>80	>50.000 h	>50.000 h	1577	1000	2,2
771 5ft (2x1500mm)*	43	5 years	6600	154	4000	>80	>50.000 h	>40.000 h	1577	1000	2,2

* The LED strips are placed in one line in a twin (wider) housing.

Other colour temperatures available on request

LED

771-FARMER

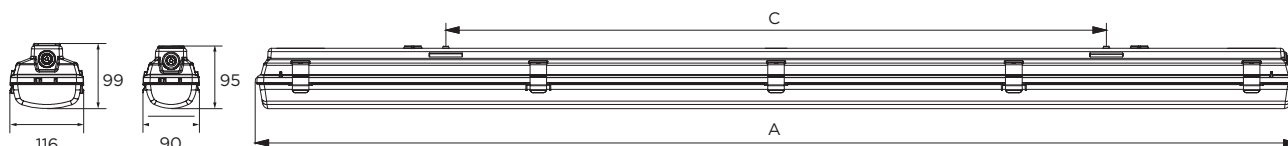
Further options:



On request:

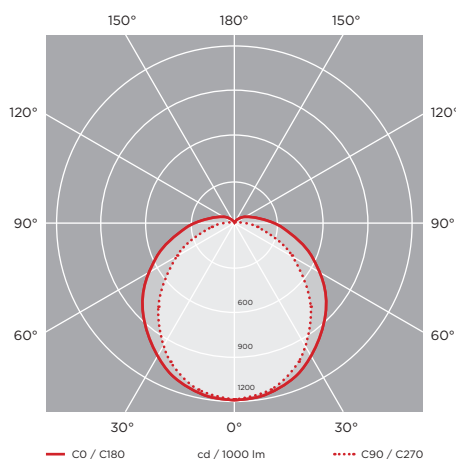


Schematic drawing with main dimensions

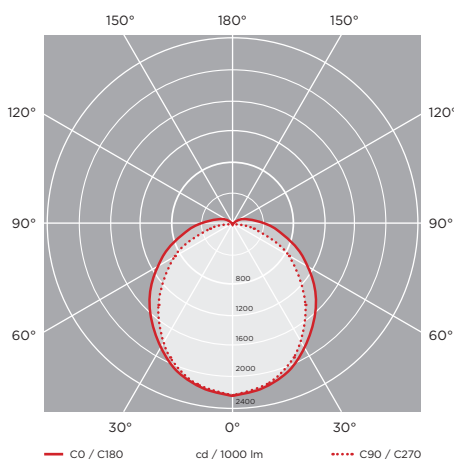


Photometric curves:

771-Farmer, 4ft, 1x1200m,
Lumnium Farmer HV, 23W, 3800lm,
PMMA



771-Farmer, 5ft, 2x1500mm,
Lumnium Farmer HV, 43W, 6600lm,
PMMA



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

775-PC

Industrial dust and waterproof luminaires

Equipped with **LED modules**. 775-PC is available in the following sizes: 2x600mm, 1x1200mm, 1x1500mm, 2x1200mm, 2x1500mm

YOUR MAIN BENEFITS:

A professional luminaire for wide usage, that fulfils the strongest quality requirements. Especially for applications, where **high impact resistance (IK rating)** is required. Available in IP65 (or optionally also IP66 or IP67).



775-PC



IP65



Option:

IP66

IP67



FIELD OF APPLICATION:

Due to the construction principles of gasket, closing system and diffuser our fixtures ensure a high grade of protection (IP65 or IP66) against dust, contamination and water permeation. (Optionally available in IP67). In accordance with their IP-grade they can be used widely to illuminate spaces with dusty and humid environment. Thanks to its **enhanced impact resistance**, 775-PC is especially suitable for applications, where **a high IK impact rating** is required.

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

TECHNICAL DESCRIPTION AND BENEFITS:

- **Housing:** It is made of 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.

- The **diffuser** is available in the following versions:
Injection moulded polycarbonate (**PC**), **opal**, with a shock resistance of IK10, with extremely high light permeability and well-balanced light dispersing.
As option injection moulded acrylic (PMMA) diffuser in opal version is available. (not IK10)

The diffusers are designed with respect to their optical characteristics and are **UV resistant**.

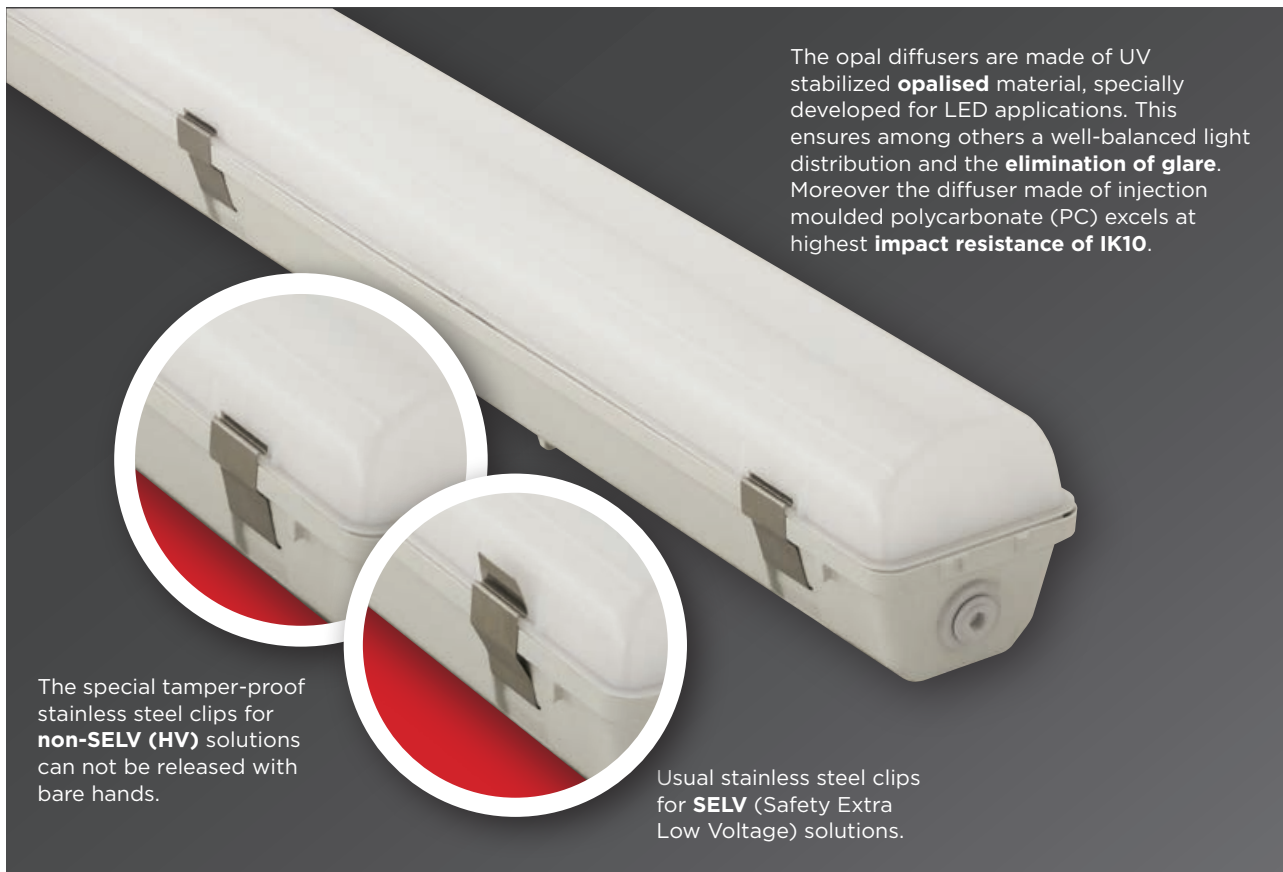
- The **gasket** between the diffuser and the housing is available in two versions:
 - **Injected silicone-based endless foam**
 - **Non-aging PU** (polyurethane) **endless foam**
- **Fixing of the diffuser to the body:** with highly resistant clips made of **stainless steel** (standard or tamper-proof).
- **Gear tray** (reflector): White powder coated steel sheet according to **Zhaga** standards or customised.
- **Electrical components:** in accordance with the requested specification suitable for LED technology, details see under technical data.

Main technical options

Our new opal diffuser has an **outstanding light transmissivity of more than 90%**. With this great light permeability, it is an **excellent choice for luminaires equipped with LED modules**.

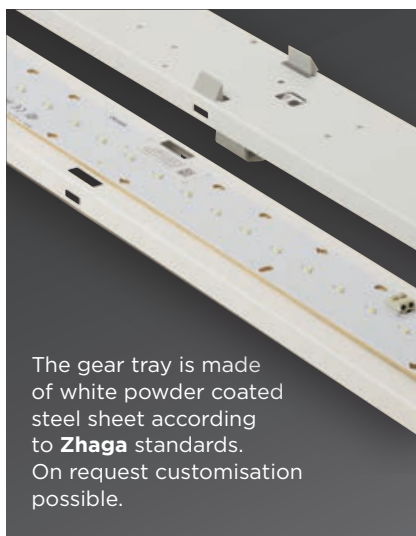


The opal diffusers are made of UV stabilized **opalised** material, specially developed for LED applications. This ensures among others a well-balanced light distribution and the **elimination of glare**. Moreover the diffuser made of injection moulded polycarbonate (PC) excels at highest **impact resistance of IK10**.



The special tamper-proof stainless steel clips for **non-SELV (HV)** solutions can not be released with bare hands.

Usual stainless steel clips for **SELV** (Safety Extra Low Voltage) solutions.



The gear tray is made of white powder coated steel sheet according to **Zhaga** standards. On request customisation possible.



Ways of installing:
1. With stainless steel suspension brackets (easy-to-install) onto the ceiling.

2. Suspension on chains with stainless steel suspension brackets mounted with hooks.

LED

775-PC

In order to ensure **maximum heat**, chemical and weather **resistance** even under tough conditions, the **gasket** between the diffuser and housing is made of **silicon-based** foam with enhanced resistance.



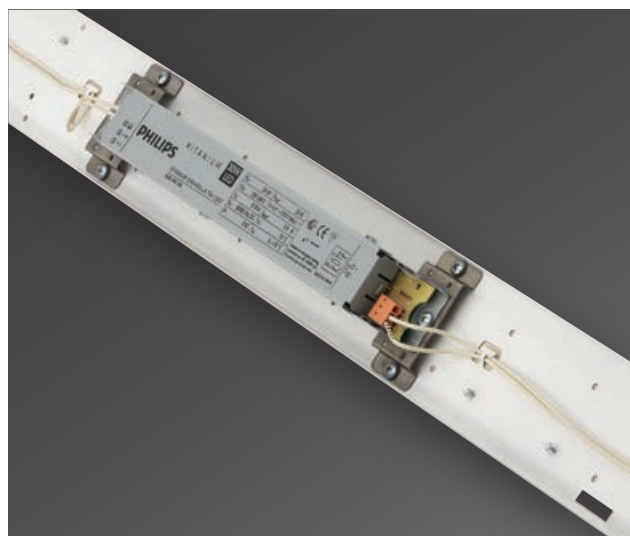
CLO

Light sources suffer from degradation in light output over time. **The CLO feature enables LED solutions to deliver constant lumen output through the life of the light engine.**

Further accessories:
1. cable gland
Different connectors enabling the electrical connection **without disassembling** the luminaire, thus **avoiding** a potential damage of the LED's inside the luminaire through **electrostatic discharge (ESD)**.
2. rapid connector
3. circular connector system



Depending on customer requirements we can reach different levels of luminous flux (lumen) as well as luminous efficacy (lm/Watt) of our LED luminaires. Details see attached overview.



In order to optimise the thermal management of the luminaire we avoid the direct contact of the gear tray and driver, thus increasing the lifetime of the modules and driver.

Technical data (extract)

PC Type	Power (W)	Warranty (Years)	Luminaire total luminous flux - emitted (lm)	Lum. efficacy (lm/w)	Colour temp. (K)	CRI	Lifetime L70B50 (Ta=35°C)	Lifetime L80B10 (Ta=35°C)	A (mm)	B (mm)	Weight (kg)
Lumium EU 130 SO with Osram driver											
775 2ft (2x600mm)*	24	5 years	3000	125	4000	>80	>72.000 h	>50.000 h	669	360	1,7
775 4ft (1200mm)	25	5 years	3200	130	4000	>80	>72.000 h	>50.000 h	1277	700	2,2
775 5ft (1500mm)	30	5 years	4000	133	4000	>80	>72.000 h	>50.000 h	1577	1000	2,5
775 4ft (1200mm)	38	5 years	4900	129	4000	>80	>72.000 h	>50.000 h	1277	700	2,2
775 5ft (1500mm)	51	5 years	6600	129	4000	>80	>72.000 h	>50.000 h	1577	1000	2,5

Lumium EU PRO 160 SO with Osram driver											
775 4ft (1200mm)	22	5 years	3200	145	4000	>80	>72.000 h	>50.000 h	1277	700	2,2
775 5ft (1500mm)	27	5 years	4000	148	4000	>80	>72.000 h	>50.000 h	1577	1000	2,5
775 4ft (1200mm)	31	5 years	4600	148	4000	>80	>72.000 h	>50.000 h	1277	700	2,2
775 5ft (1500mm)	41	5 years	6200	151	4000	>80	>72.000 h	>50.000 h	1577	1000	2,5

Lumium EU PRO 140 HF with Philips driver											
775 4ft (2x1200mm)*	58	5 years	7500	129	4000	>80	>72 000 h	>50.000 h	1277	700	2,65
775 5ft (2x1500mm)*	73	5 years	9600	131	4000	>80	>72 000 h	>50.000 h	1577	1000	3

Osram Basic Linear G3											
775 2ft (2x600mm)*	21	5 years	2300	112	4000	>80	>50.000 h	>41.000 h	669	360	1,3
775 4ft (1200mm)	23	5 years	2800	119	4000	>80	>50.000 h	>50.000 h	1277	700	1,8
775 5ft (1500mm)	28	5 years	3500	126	4000	>80	>50.000 h	>50.000 h	1577	1000	2,2
775 4ft (1200mm)	28	5 years	3700	134	4000	>80	>50.000 h	>45.000 h	1277	700	2
775 5ft (1500mm)	35	5 years	4500	130	4000	>80	>50.000 h	>50.000 h	1577	1000	2,2
775 4ft (2x1200mm)*	39	5 years	5000	127	4000	>80	>50.000 h	>43.000 h	1277	700	2,5
775 5ft (2x1500mm)*	47	5 years	6400	136	4000	>80	>50.000 h	>43.000 h	1577	1000	2,7

Philips Fortimo LED Strip LV5											
775 2ft (2x600mm)*	15	5 years	2000	131	4000	>80	>72.000 h	>50.000 h	669	360	1,7
775 4ft (1200mm)	31	5 years	4300	136	4000	>80	>72.000 h	>50.000 h	1277	700	2,2
775 5ft (1500mm)	38	5 years	5200	136	4000	>80	>72.000 h	>50.000 h	1577	1000	2,5
775 5ft (2x1500mm)*	49	5 years	6500	128	4000	>80	>72.000 h	>50.000 h	1577	1000	2,7

Philips Fortimo LED Strip HV6											
775 4ft (2x1200mm)*	56	5 years	7800	141	4000	>80	>100.000 h	>64.000 h	1277	700	2,65
775 5ft (2x1500mm)*	70	5 years	9900	141	4000	>80	>100.000 h	>64.000 h	1577	1000	3
775 4ft (2x1200mm)*	66	5 years	9400	144	4000	>80	>100.000 h	>64.000 h	1277	700	2,65
775 5ft (2x1500mm)*	83	5 years	12000	145	4000	>80	>100.000 h	>64.000 h	1577	1000	3

* The LED strips are placed in one line in a twin (wider) housing.

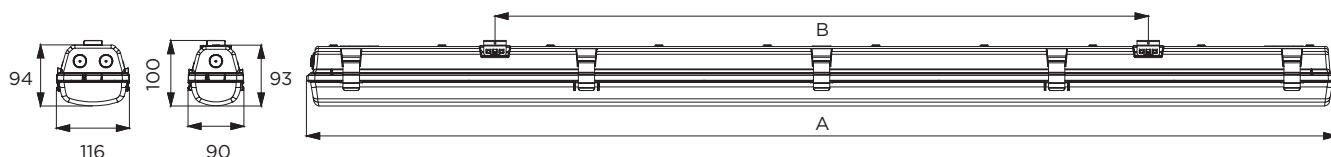
Other colour temperatures available on request

Further options:

On request:



Schematic drawing with main dimensions



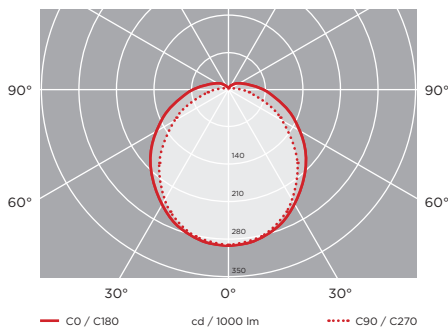
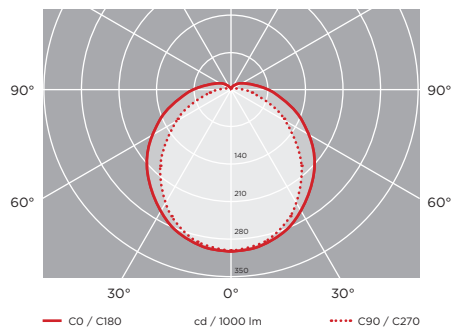
Photometric curves:

775-PC, 4ft (2x1200mm)

Osram Basic Linear G3, 39W, 5000lm, PC

775-PC, 4ft (2x1200mm)

Philips Fortimo LED Strip HV6, 55W, 7800lm, PC



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



746-CLEVER

Industrial dust and waterproof luminaires with LED modules

**Now with a new, opalised diffuser with unique light transmissivity!
Specially developed for LED applications**



FIELD OF APPLICATION:

Thanks to the construction principles of gasket, closing system and diffuser our LED fixtures ensure a high grade of protection (IP65 or IP66) against dust, contamination and water permeation. In accordance with their IP grade they can be widely used to illuminate spaces with dusty and humid environment.

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

TECHNICAL DESCRIPTION AND BENEFITS:

■ **Diffuser:** Our LED luminaires with **opal** diffuser offer you:

- **extremely high light efficiency** through high **light permeability, unique on the market**, (up to 93% light transmissivity)
- an **excellent light uniformity** through **well-balanced light dispersing** (no shadows)
- **elimination of the dazzling effect** (no glare)
- **aesthetical appearance (no dots of the single LEDs)**
- **keeping the usual, well-known features of the diffuser** such as chemical and heat resistance, mechanical features, **UV stabilization** etc.

Available in PC - injection moulded **Polycarbonate** (high mechanical strength and high heat and shock resistance) **or in Acrylic** - injection moulded **PMMA** (unique non-aging properties, high chemical resistance).

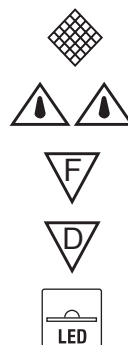
- **Housing:** It is made of flame retardant glass fibre reinforced polyester, in light grey (RAL7035) colour. Glass fibre reinforced polyester has very good temperature resistance, mechanical stability, furthermore it is a good electrical insulator, it resists the impacts of several chemicals and the impacts of weather conditions. Its stability of size and shape at changing temperatures is excellent.
- 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 highly resistant clips made of **stainless steel** (standard or tamper-proof).
- **Gear tray (reflector):** White powder coated steel sheet according to **Zhaga** standards or customised.
- **Electrical components:** The adequate power supply is ensured through electronic driver, that is built into the luminaire.

LED

CE

746-CLEVER

IP65



Option:

IP66



Main technical options

Our opal diffuser has an **outstanding light transmissivity** of up to **93%**. With this great light permeability, it is an **excellent choice for luminaires equipped with LED modules**.



Usual stainless steel clips for **SELV** (Safety Extra Low Voltage) solutions.

The opal diffusers are made of UV stabilized **opalised** material, specially developed for LED applications. This ensures among others a well-balanced light distribution and the **elimination of glare**.

The special tamper-proof stainless steel clips for **non-SELV (HV)** solutions can not be released with bare hands.



With 746-Clever - depending on customer requirements - we can reach different levels of luminous flux (lumen) as well as luminous efficacy (lm/Watt). Details see attached overview.



In order to optimise the thermal management of the luminaire we avoid the direct contact of the gear tray and driver, thus increasing the lifetime of the modules and driver.

In order to ensure **maximum heat, chemical and weather resistance** even under tough conditions, the **gasket** between the diffuser and housing is made of **silicon-based** foam with enhanced resistance.



The gear tray is made of white powder coated steel sheet according to **Zhaga** standards. On request customisation possible.

Further accessories:

1. cable gland
- Different connectors enabling the electrical connection **without disassembling** the luminaire, thus **avoiding** a potential damage of the LED's inside the luminaire through **electrostatic discharge (ESD)**.
2. rapid connector
3. circular connector system

1

3

3

2

1

2

Ways of installing:

1. With stainless steel suspension brackets (easy-to-install) onto the ceiling.
2. Suspension on chains with stainless steel suspension brackets mounted with hooks.

LED Version with motion sensor

Technical data (extract)

PMMA Type	Power (W)	Warranty (Years)	Luminare total luminous flux - emitted (lm)	Lum. efficacy (lm/w)	Correlated colour temp (Kelvin)	CRI	Lifetime L70B50 (Ta=35°C)	Lifetime L70B50 (Ta=35°C)	A (mm)	B (mm)	Weight (kg)
Lumnium EU 130 SO with Osram driver											
746 2ft (600mm)	24	5 years	3300	137	4000	>80	>72.000 h	> 50.000 h	669	415	1,7
746 4ft (1200mm)	25	5 years	3400	136	4000	>80	>72.000 h	> 50.000 h	1277	800	2
746 5ft (1500mm)	30	5 years	4200	140	4000	>80	>72.000 h	> 50.000 h	1577	1100	2,5
746 4ft (1200mm)	38	5 years	5100	134	4000	>80	>72.000 h	> 50.000 h	1277	800	2,2
746 5ft (1500mm)	51	5 years	7000	137	4000	>80	>72.000 h	> 50.000 h	1577	1100	2,5
Lumnium EU PRO 160 SO with Osram driver											
746 4ft (1200mm)	22	5 years	3300	150	4000	>80	>72.000 h	> 50.000 h	1277	800	2,2
746 5ft (1500mm)	27	5 years	4200	155	4000	>80	>72.000 h	> 50.000 h	1577	1100	2,5
746 4ft (1200mm)	31	5 years	4800	155	4000	>80	>72.000 h	> 50.000 h	1277	800	2,2
746 5ft (1500mm)	41	5 years	6500	158	4000	>80	>72.000 h	> 50.000 h	1577	1100	2,5
Lumnium EU PRO 140 HF with Philips driver											
746 4ft (2x1200mm)*	58	5 years	8000	138	4000	>80	>72.000 h	> 50.000 h	1277	800	2,65
746 5ft (2x1500mm)*	73	5 years	10200	140	4000	>80	>72.000 h	> 50.000 h	1577	1100	3
Osram Basic Linear G3											
746 4ft (1200mm)	23	5 years	2900	124	4000	>80	>50.000 h	>50.000 h	1277	800	1,8
746 5ft (1500mm)	28	5 years	3700	132	4000	>80	>50.000 h	>50.000 h	1577	1100	2,2
746 4ft (1200mm)	28	5 years	3900	140	4000	>80	>50.000 h	>45.000 h	1277	800	2
746 5ft (1500mm)	35	5 years	4700	136	4000	>80	>50.000 h	>50.000 h	1577	1100	2,2
746 4ft (2x1200mm)*	39	5 years	5300	135	4000	>80	>50.000 h	>43.000 h	1277	800	2,5
746 5ft (2x1500mm)*	47	5 years	6800	144	4000	>80	>50.000 h	>43.000 h	1577	1100	2,7
Philips Fortimo LED Strip LV5											
746 2 ft (600 mm)	15	5 years	2100	138	4000	>80	>72.000 h	> 50.000 h	669	415	1,7
746 4ft (1200mm)	31	5 years	4500	143	4000	>80	>72.000 h	> 50.000 h	1277	800	2,2
746 5ft (1500mm)	38	5 years	5400	142	4000	>80	>72.000 h	> 50.000 h	1577	1100	2,5
746 5ft (2x1500mm)*	49	5 years	6900	140	4000	>80	>72.000 h	> 50.000 h	1577	1100	2,7
Philips Fortimo LED Strip HV6											
746 4ft (2x1200mm)*	56	5 years	8300	150	4000	>80	>100.000 h	> 64.000 h	1277	800	2,65
746 5ft (2x1500mm)*	70	5 years	10500	150	4000	>80	>100.000 h	> 64.000 h	1577	1100	3
746 4ft (2x1200mm)*	66	5 years	10000	153	4000	>80	>100.000 h	> 64.000 h	1277	800	2,65
746 5ft (2x1500mm)*	83	5 years	12700	153	4000	>80	>100.000 h	> 64.000 h	1577	1100	3

* The LED strips are placed in one line in a twin (wider) housing.

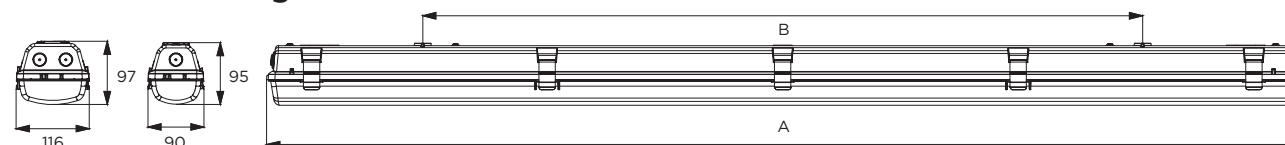
Other colour temperatures available on request

Further options:

On request:

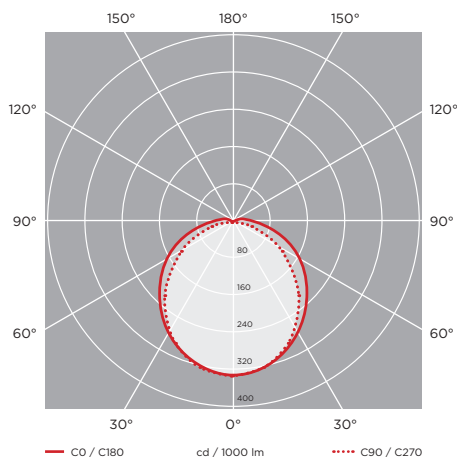


Schematic drawing with main dimensions

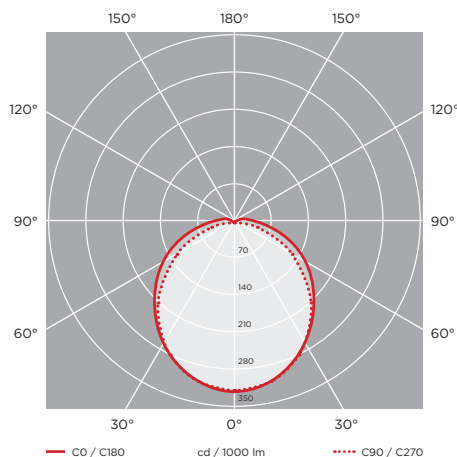


Photometric curves:

746-Clever, 4ft (2x1200mm),
Osram Basic Linear G3,
39W, 5300lm, PMMA



746-Clever, 4ft (2x1200mm),
Philips Fortimo LED Strip HV6,
55W, 8300lm, PMMA



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

790-XTRUDE

Industrial dust and waterproof luminaires with LED modules

Unique appearance with easier, quick installation!

Extruded profile with outstanding light transmissivity! Specially developed for LED applications.

YOUR MAIN BENEFITS:

Quick installation, length perfectly adapted to the size of the LED modules



FIELD OF APPLICATION:

Thanks to the construction principles of gasket, end caps and the extruded profile our LED fixtures ensure a high grade of protection (IP 65) against dust, contamination and water permeation. In accordance with their IP grade they can be widely used to illuminate spaces with dusty, humid environment.

When using outdoors, the fittings should be protected against direct sunlight and adverse weather conditions.

TECHNICAL DESCRIPTION AND BENEFITS:

- **Housing:** Made of **Polycarbonate (PC)** by **co-extrusion**. The housing is made in light grey (RAL7035) colour. The diffusing (upper) part is opalised. Thanks to the used raw material the whole fitting shows very high mechanical strength and **high heat and shock resistance (IK08)**.
- The **co-extruded opal** diffuser offers you:
 - **extremely high light transmissivity** (up to 90%) **unique on the market**
 - **homogenous, well-balanced light dispersing** (no shadows)
 - **elimination of the dazzling effect** (no glare)
 - **unique appearance and clean impression (no clips, no dots** of the single LED´s)
 - **keeping the usual, well-known features of the diffuser** such as chemical and heat resistance, mechanical features, **UV stabilization** etc.
- **End caps:** Made of extremely resistant polyamide and glued to the housing.
- **Gear tray** (reflector): White powder coated steel sheet according to **Zhaga** standards or customized.
- **Electrical components:** The adequate power supply is ensured through electronic driver, that is built into the luminaire.

CE

790-XTRUDE

IP65



Option:



Main technical options

The gear tray is made of white powder coated steel sheet according to **Zhaga** standards.



The diffusing part of the profile is made of UV stabilized **opalised** material, specially developed for LED applications. This ensures among others a well-balanced light distribution and the **elimination of glare**.

The **pull-out (sliding) tray accelerates** the electrical connection easily **without disassembling** the luminaire.

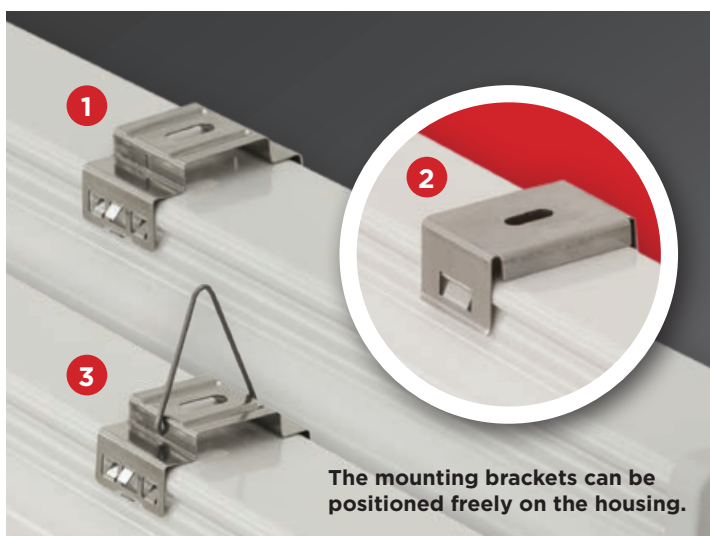
IP 65 protection is ensured by adhesive that is placed into the seal channel and it secures the end caps to the body.

The glued end caps are locked up hermetically by a bayonet mechanism. After opening it, the connector tray is accessible.

1,5 min
INSTALLATION TIME



In option:
The 790-Xtrude product is available with **transparent housing** and **asymmetric beam optics** as **790-Xtrude AB version**.



Ways of installing:

1. With stainless steel mounting brackets (easy-to-install) onto the ceiling.
2. With **strengthened** stainless steel mounting brackets. They are easy to install onto the wall or ceiling.
3. **Suspension on chains or rope** with stainless steel suspension brackets mounted with **hooks**.

Technical data (extract)

PC Type	Power (W)	Warranty (years)	Luminaire total luminous flux - emitted (lm)	Lum. efficacy (lm/W)	Correlated colour temp (Kelvin)	CRI	Lifetime L70B50 (Ta=35°C)	Lifetime L80B10 (Ta=35°C)	A (mm)	B (mm)	Weight (kg)
Lumnium EU 130 SO with Osram driver											
790 2ft (600mm)	25	5 years	3400	136	4000	>80	>72 000 h	>50 000 h	648	350	0,8
790 4ft (1200mm)	25	5 years	3400	136	4000	>80	>72 000 h	>50 000 h	1208	600	1,2
790 5ft (1500mm)	31	5 years	4200	135	4000	>80	>72 000 h	>50 000 h	1488	850	1,3
790 4ft (1200mm)	38	5 years	5100	134	4000	>80	>72 000 h	>50 000 h	1208	600	1,6
790 5ft (1500mm)	51	5 years	6800	133	4000	>80	>72 000 h	>50 000 h	1488	850	1,7
Lumnium EU PRO 160 SO with Osram driver											
790 4ft (1200mm)	22	5 years	3300	150	4000	>80	>72 000 h	>50 000 h	1208	600	1,2
790 5ft (1500mm)	27	5 years	4100	151	4000	>80	>72 000 h	>50 000 h	1480	850	1,3
790 4ft (1200mm)	31	5 years	4800	154	4000	>80	>72 000 h	>50 000 h	1208	600	1,6
790 5ft (1500mm)	41	5 years	6400	156	4000	>80	>72 000 h	>50 000 h	1480	850	1,7
Lumnium EU PRO 140 HF with Philips driver											
790 4ft (1200mm)	61	5 years	8100	132	4000	>80	>72.000 h	>50.000 h	1208	600	1,6
790 5ft (1500mm)	77	5 years	10000	130	4000	>80	>72.000 h	>50.000 h	1480	850	1,7
Osram Basic Linear G3											
790 2ft (600mm)	21	5 years	2600	116	4000	>80	>50 000 h	>41 000 h	648	350	0,9
790 4ft (1200mm)	23	5 years	2900	126	4000	>80	>50 000 h	>50 000 h	1208	600	1,45
790 5ft (1500mm)	28	5 years	3800	138	4000	>80	>50 000 h	>50 000 h	1488	850	1,72
790 4ft (1200mm)	28	5 years	3600	130	4000	>80	>50 000 h	>45 000 h	1208	600	1,45
790 5ft (1500mm)	35	5 years	4900	142	4000	>80	>50 000 h	>50 000 h	1488	850	1,72
790 4ft (1200mm)	38	5 years	5000	130	4000	>80	>50 000 h	>43 000 h	1208	600	1,45
790 5ft (1500mm)	47	5 years	6600	141	4000	>80	>50 000 h	>43 000 h	1488	850	1,72
Philips Fortimo LED Strip HV6											
790 4ft (1200mm)	56	5 years	8200	143	4000	>80	>100 000 h	>64 000	1208	600	1,6
790 5ft (1500mm)	70	5 years	10000	142	4000	>80	>100 000 h	>64 000	1488	850	1,7

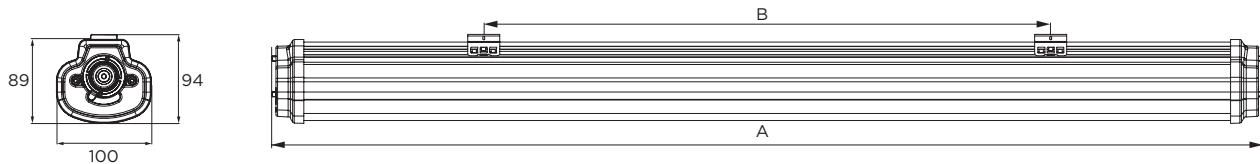
Further options:



On request:

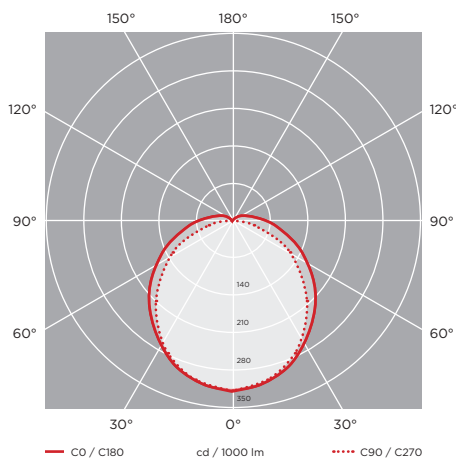


Schematic drawing with main dimensions

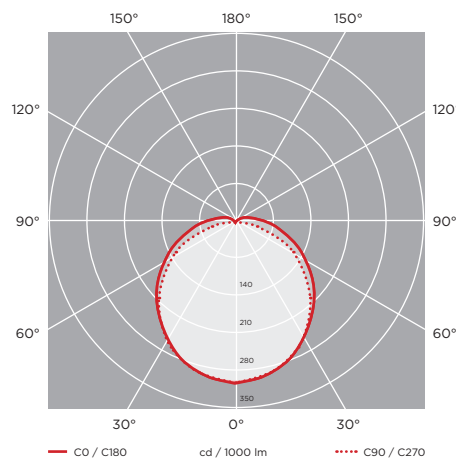


Photometric curves:

790-Xtrude, 4 ft (1200mm)
Osram Basic Linear G3, 28W, 3600lm, PC



790-Xtrude, 5 ft (1500mm),
Lumnium EU 130 SO, 51W, 6800lm, PC



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

872-ENTRY GRP

Industrial dust and waterproof luminaires with LED modules

Trend-setting lighting in IP66 (option in IP67), quick installation. Specially developed for LED applications.

YOUR MAIN BENEFITS:

Size perfectly **adapted to LED**, easy to install, **slim design**



872-ENTRY GRP

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. (Optionally available in IP67). In accordance with their IP rating they can be widely used to illuminate spaces with dusty and humid environment. When using outdoors, the fittings should be protected against direct sunlight and adverse weather conditions. Under 0°C the application of venting cable gland is necessary, as well as the silicone gasket is recommended.

TECHNICAL DESCRIPTION AND BENEFITS:

- **Housing:** - Available in flame retardant **glass fibre reinforced polyester**, in light grey (RAL7035) colour (on request suitable for 850°C glow wire test too). 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.
- **Diffuser:** Available in **PC** - injection moulded **opalised Polycarbonate** (high mechanical strength and high heat and shock resistance) or in **Acrylic** - injection moulded **opalised PMMA** (unique non-aging properties, high chemical resistance).

Further benefits:

- **Extremely high lighting efficiency** through high **light permeability, unique on the market**, up to 90%
- An **excellent light uniformity** through **well-balanced light dispersing** (no shadows)
- **Elimination of the dazzling effect** (no glare)
- **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) and slim **shape 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 tamper-proof (vandal-proof) 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 electronic driver, that is built into the luminaire.

Main technical options

Our **opalised** diffuser achieves an **outstanding light transmissivity of up to 90%**. With this great light permeability, it is **an excellent choice for luminaires equipped with LED-modules**.

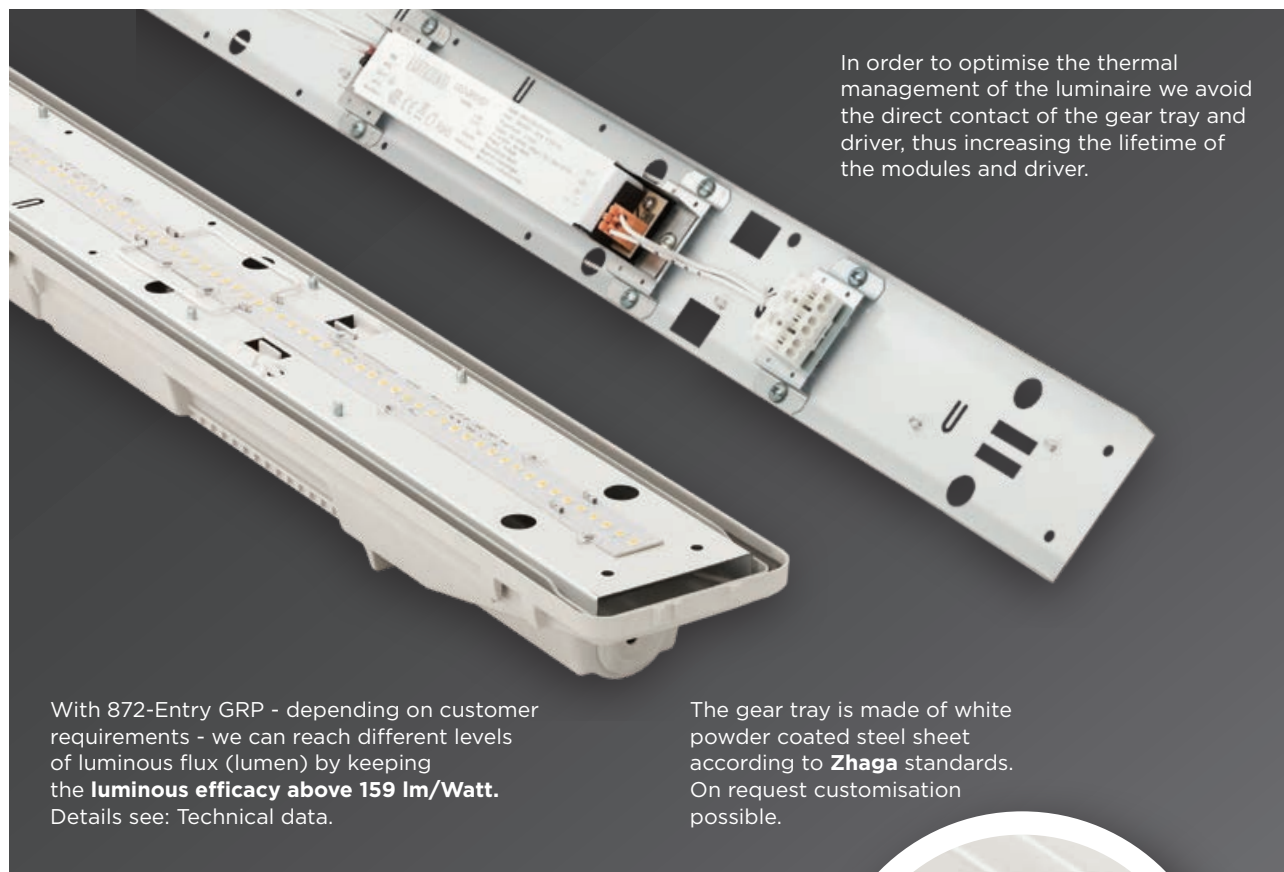


Compact design for LED



LED

872-ENTRY GRP



In order to optimise the thermal management of the luminaire we avoid the direct contact of the gear tray and driver, thus increasing the lifetime of the modules and driver.

With 872-Entry GRP - depending on customer requirements - we can reach different levels of luminous flux (lumen) by keeping the **luminous efficacy above 159 lm/Watt**. Details see: Technical data.

The gear tray is made of white powder coated steel sheet according to **Zhaga** standards. On request customisation possible.



The special **tamper-proof stainless steel clips** cannot be released with bare hands.

The **opal diffusers** are made of UV-stabilized material, specially **developed for LED** applications. This ensures among others a well-balanced light distribution and the **elimination of glare**.

The injected **silicon-based gasket** with enhanced resistance ensures **maximum** chemical and weather **resistance** even under tough conditions. Non-aging polyurethane foam is optionally available.



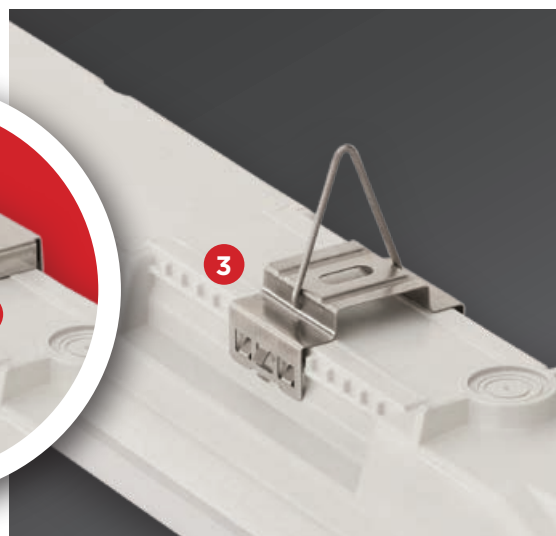
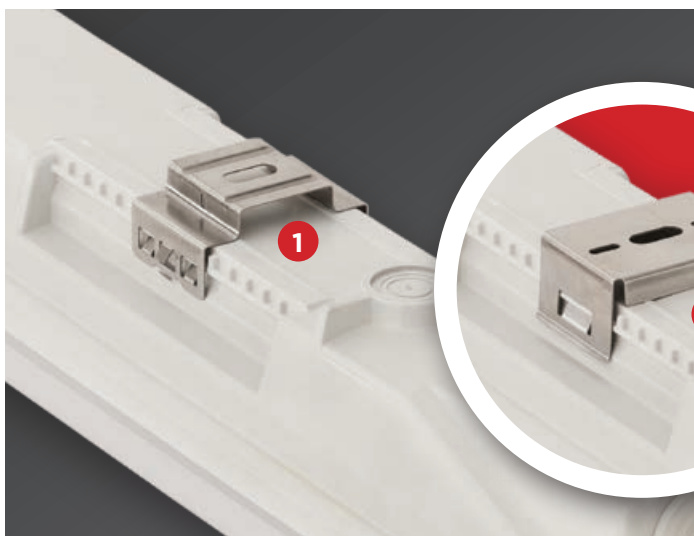
OPTIONS FOR CABLE ENTRY:

IP66 grommet

Cable gland



The **Rapid Connector** enables the electrical connection **without disassembling** the luminaire, thus **avoiding** a potential damage of the LED's inside the luminaire through **electrostatic discharge (ESD)**.



Ways of installing (options):

1. With **standard** (0,4 mm) stainless steel mounting brackets (easy-to-install) onto the **ceiling**.
2. With **strengthened** (0,6 mm) stainless steel mounting brackets. They are easy-to-install onto the **ceiling or the wall** (in horizontal position).

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

The mounting brackets can be positioned with **lateral flexibility** for easy installation.

Technical data (extract)

PMMA Type	Power (W)	Warranty (years)	Luminare total luminous flux - emitted (lm)	Lum. efficacy (lm/W)	Correlated colour temp (Kelvin)	CRI	Lifetime L70B50 (Ta=35°C)	Lifetime L80B10 (Ta=35°C)	A (mm)	B (mm)	Weight (kg)
Lumnium EU 130 with Osram driver											
872 2ft (600mm)	25	5 years	3200	128	4000	>80	> 72 000 h	> 50 000 h	605	238±23	0,9
872 4ft (1200mm)	25	5 years	3500	136	4000	>80	> 72 000 h	> 50 000 h	1185	700±78	1,5
872 5ft (1500mm)	30	5 years	4500	137	4000	>80	> 72 000 h	> 50 000 h	1477	1000±78	1,8
872 4ft (1200mm)	36	5 years	5300	136	4000	>80	> 72 000 h	> 50 000 h	1185	700±78	1,5
872 5ft (1500mm)	50	5 years	7000	137	4000	>80	> 72 000 h	> 50 000 h	1477	1000±78	1,8

Lumnium EU PRO 160 with Osram driver											
872 4ft (1200mm)	22	5 years	3500	159	4000	>80	> 72 000 h	> 50 000 h	1185	700±78	1,5
872 5ft (1500mm)	27	5 years	4400	163	4000	>80	> 72 000 h	> 50 000 h	1477	1000±78	1,8
872 4ft (1200mm)	31	5 years	5000	161	4000	>80	> 72 000 h	> 50 000 h	1185	700±78	1,5
872 5ft (1500mm)	41	5 years	6800	165	4000	>80	> 72 000 h	> 50 000 h	1477	1000±78	1,8

Osram Basic Linear G3											
872 2ft (600mm)	21	5 years	2600	125	4000	>80	50.000 h	41.000 h	605	238±23	0,9
872 4ft (1200mm)	23	5 years	3000	130	4000	>80	50.000 h	46.000 h	1185	700±78	1,5
872 5ft (1500mm)	28	5 years	3900	140	4000	>80	50.000 h	50.000 h	1477	1000±78	1,8
872 4ft (1200mm)	39	5 years	5400	140	4000	>80	50.000 h	41.000 h	1185	700±78	1,5
872 5ft (1500mm)	47	5 years	6900	145	4000	>80	50.000 h	41.000 h	1477	1000±78	1,8

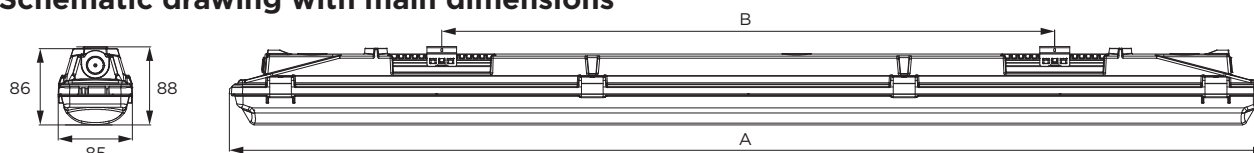
with DIP Switch PMMA Type	Power (W)	Warranty (years)	Luminare total luminous flux - emitted (lm)	Lum. efficacy (lm/W)	Correlated colour temp (Kelvin)	CRI	Lifetime L70B50 (Ta=35°C)	Lifetime L80B10 (Ta=35°C)	A (mm)	B (mm)	Weight (kg)
Lumnium EU 130 HO with Osram driver											
872 4ft (1200mm)	23	5 years	3400	136	4000	>80	> 72 000 h	> 50 000 h	1185	700±78	1,5
	28		4100								
	34		4800								
	39		5300								
872 5ft (1500mm)	30	5 years	4500	137	4000	>80	> 72 000 h	> 50 000 h	1477	1000±78	1,8
	37		5500								
	44		6400								
	51		7000								

Further options:

On request:

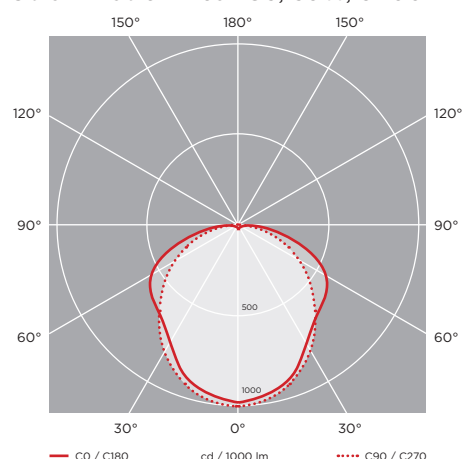


Schematic drawing with main dimensions

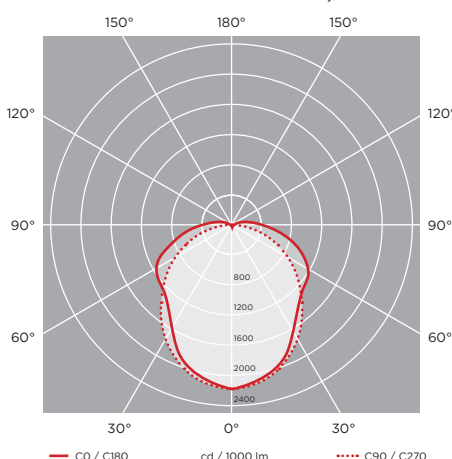


Photometric curves:

872-Entry GRP 4ft (1200mm) PMMA, Osram Basic Linear G3, 39W, 5400lm



872-Entry GRP 5ft (1500mm) PMMA, Lumnium EU PRO 160 41W, 6800lm



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

872-ENTRY PC

Industrial dust and waterproof luminaires with LED modules

Trend-setting lighting in IP66 (option in IP67), quick installation. Specially developed for LED applications.

YOUR MAIN BENEFITS:

Size perfectly **adapted to LED**, easy to install, **slim design**



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. (Optionally available in IP67). In accordance with their IP rating they can be widely used to illuminate spaces with dusty and humid environment. Thanks to its **enhanced impact resistance**, 872-Entry PC is especially suitable for applications, where a **high IK impact rating** is required.

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

TECHNICAL DESCRIPTION AND BENEFITS:

■ **Housing:** It is made of flame retardant **injection moulded Polycarbonate (PC)** in light grey (RAL7035) colour (suitable for 850°C glow wire test too). Polycarbonate has very high mechanical strength and allows us to reach an excellent shock resistance.

■ **Diffuser:** Available in **PC** - injection moulded **opalised Polycarbonate** (high mechanical strength and high heat and shock resistance). As option, injection moulded acrylic (PMMA) diffuser in opal version is available (not IK08).

Further benefits:

- **Extremely high lighting efficiency** through high **light permeability, unique on the market**, up to 90%
- An **excellent light uniformity** through **well-balanced light dispersing** (no shadows)
- **Elimination of the dazzling effect** (no glare)
- **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) and slim **shape 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 tamper-proof (vandal-proof) 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 electronic driver, that is built into the luminaire.

Main technical options

Our **opalised** diffuser achieves an **outstanding light transmissivity of up to 90%**. With this great light permeability, it is **an excellent choice for luminaires equipped with LED-modules**.

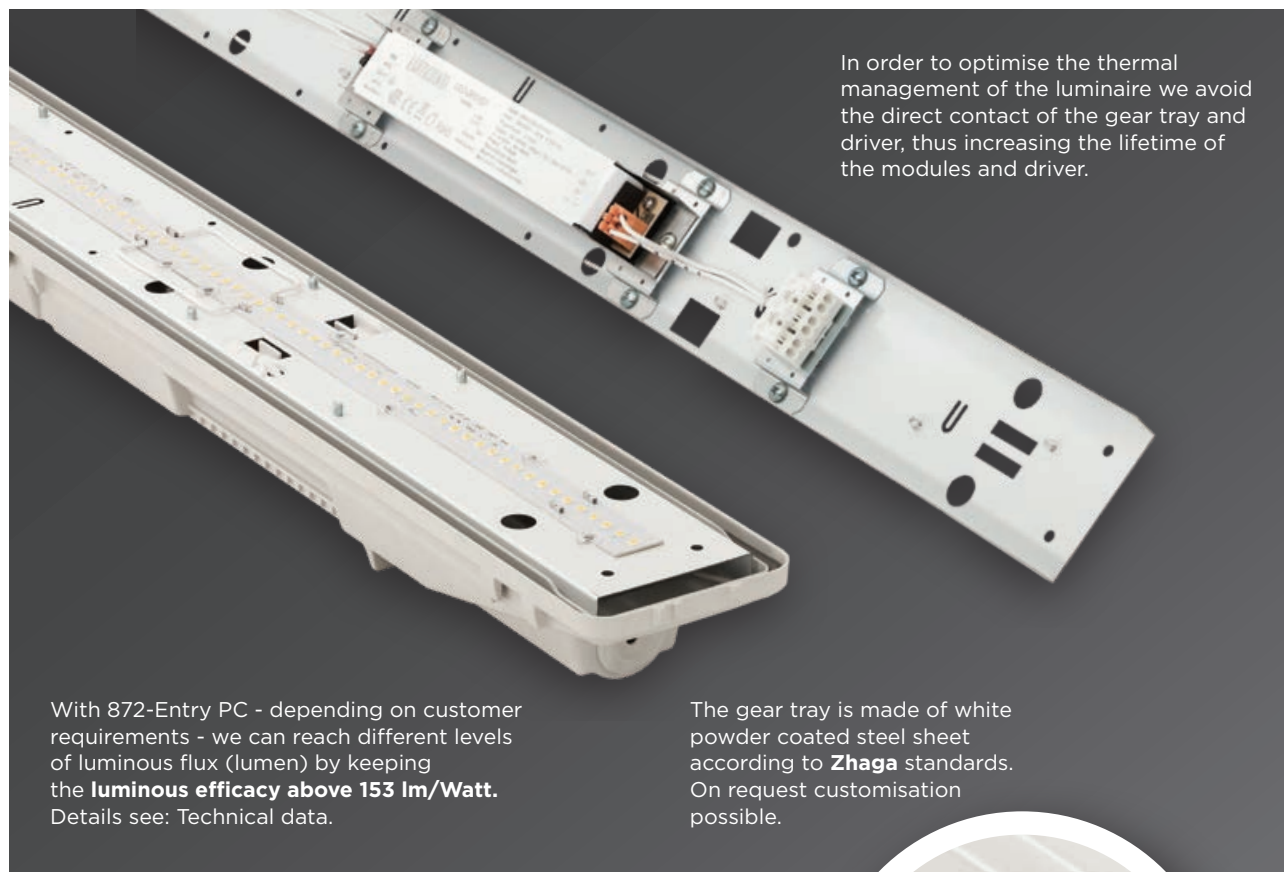


Compact design for LED



LED

872-ENTRY PC



In order to optimise the thermal management of the luminaire we avoid the direct contact of the gear tray and driver, thus increasing the lifetime of the modules and driver.

With 872-Entry PC - depending on customer requirements - we can reach different levels of luminous flux (lumen) by keeping the **luminous efficacy above 153 lm/Watt**. Details see: Technical data.

The gear tray is made of white powder coated steel sheet according to **Zhaga** standards. On request customisation possible.



The special **tamper-proof stainless steel clips** cannot be released with bare hands.

The **opal diffusers** are made of UV-stabilized material, specially **developed for LED** applications. This ensures among others a well-balanced light distribution and the **elimination of glare**.

The injected **silicon-based gasket** with enhanced resistance ensures **maximum** chemical and weather **resistance** even under tough conditions. Non-aging polyurethane foam is optionally available.



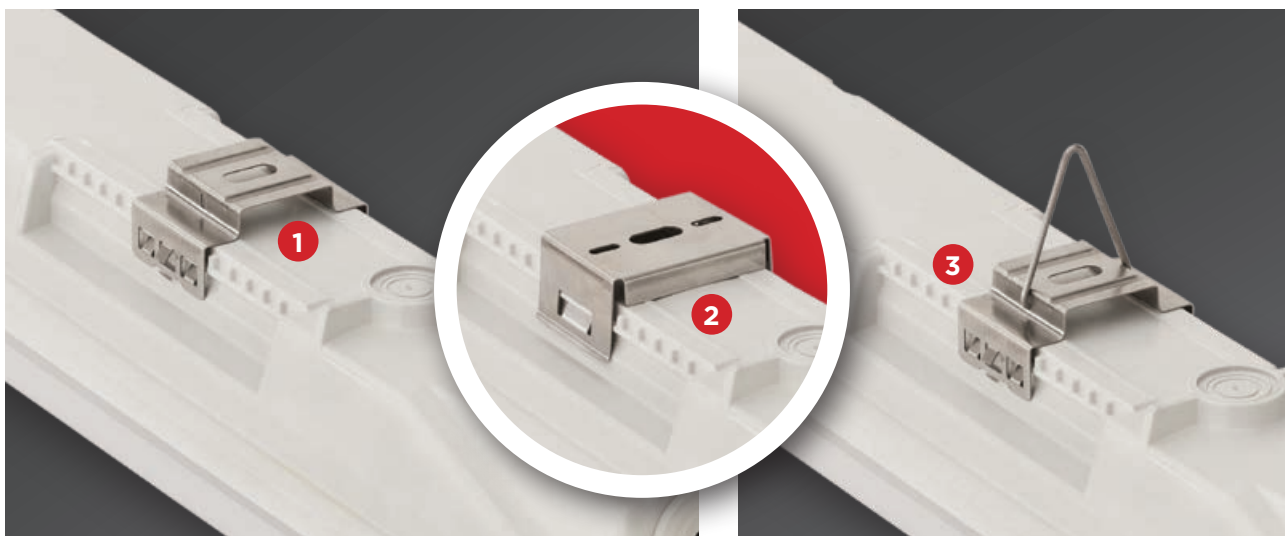
OPTIONS FOR CABLE ENTRY:

IP66 grommet

Cable gland



The **Rapid Connector** enables the electrical connection **without disassembling** the luminaire, thus **avoiding** a potential damage of the LED's inside the luminaire through **electrostatic discharge (ESD)**.



Ways of installing (options):

1. With **standard** (0,4 mm) stainless steel mounting brackets (easy-to-install) onto the **ceiling**.
2. With **strengthened** (0,6 mm) stainless steel mounting brackets. They are easy-to-install onto the **ceiling or the wall** (in horizontal position).
3. **Suspension** on chains, wire ropes etc. with stainless steel mounting brackets and **with hooks**.

The mounting brackets can be positioned with **lateral flexibility** for easy installation.

Technical data (extract)

PC Type	Power (W)	Warranty (years)	Luminare total luminous flux - emitted (lm)	Lum. efficacy (lm/W)	Correlated colour temp (Kelvin)	CRI	Lifetime L70B50 (Ta=35°C)	Lifetime L80B10 (Ta=35°C)	A (mm)	B (mm)	Weight (kg)
Lumnium EU 130 with Osram driver											
872 2ft (600mm)	25	5 years	3000	117	4000	>80	> 72 000 h	> 50 000 h	605	238±23	0,9
872 4ft (1200mm)	25	5 years	3300	126	4000	>80	> 72 000 h	> 50 000 h	1185	700±78	1,5
872 5ft (1500mm)	30	5 years	4200	127	4000	>80	> 72 000 h	> 50 000 h	1477	1000±78	1,8
872 4ft (1200mm)	36	5 years	4900	126	4000	>80	> 72 000 h	> 50 000 h	1185	700±78	1,5
872 5ft (1500mm)	50	5 years	6600	127	4000	>80	> 72 000 h	> 50 000 h	1477	1000±78	1,8

Lumnium EU PRO 160 with Osram driver											
872 4ft (1200mm)	22	5 years	3200	145	4000	>80	> 72 000 h	> 50 000 h	1185	700±78	1,5
872 5ft (1500mm)	27	5 years	4100	152	4000	>80	> 72 000 h	> 50 000 h	1477	1000±78	1,8
872 4ft (1200mm)	31	5 years	4600	148	4000	>80	> 72 000 h	> 50 000 h	1185	700±78	1,5
872 5ft (1500mm)	41	5 years	6300	153	4000	>80	> 72 000 h	> 50 000 h	1477	1000±78	1,8

Osram Basic Linear G3											
872 2ft (600mm)	21	5 years	2300	110	4000	>80	50.000 h	41.000 h	605	238±23	0,9
872 4ft (1200mm)	23	5 years	2700	120	4000	>80	50.000 h	46.000 h	1185	700±78	1,5
872 5ft (1500mm)	28	5 years	3600	130	4000	>80	50.000 h	50.000 h	1477	1000±78	1,8
872 4ft (1200mm)	39	5 years	5000	130	4000	>80	50.000 h	41.000 h	1185	700±78	1,5
872 5ft (1500mm)	47	5 years	6400	136	4000	>80	50.000 h	41.000 h	1477	1000±78	1,8

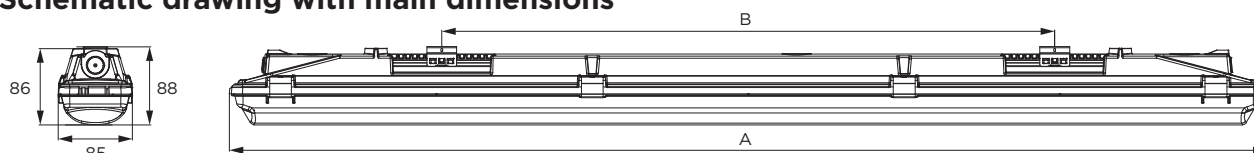
with DIP Switch PC Type	Power (W)	Warranty (years)	Luminare total luminous flux - emitted (lm)	Lum. efficacy (lm/W)	Correlated colour temp (Kelvin)	CRI	Lifetime L70B50 (Ta=35°C)	Lifetime L80B10 (Ta=35°C)	A (mm)	B (mm)	Weight (kg)
Lumnium EU 130 HO with Osram driver											
872 4ft (1200mm)	23	5 years	3100	126	4000	>80	> 72 000 h	> 50 000 h	1185	700±78	1,5
	28		3800								
	34		4400								
	39		4900								
872 5ft (1500mm)	30	5 years	4200	127	4000	>80	> 72 000 h	> 50 000 h	1477	1000±78	1,8
	37		5100								
	44		5900								
	51		6600								

Further options:

On request:

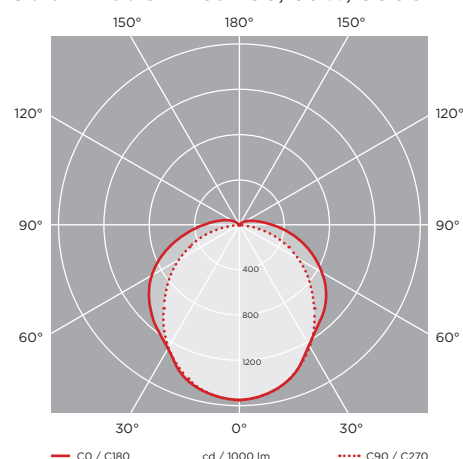


Schematic drawing with main dimensions

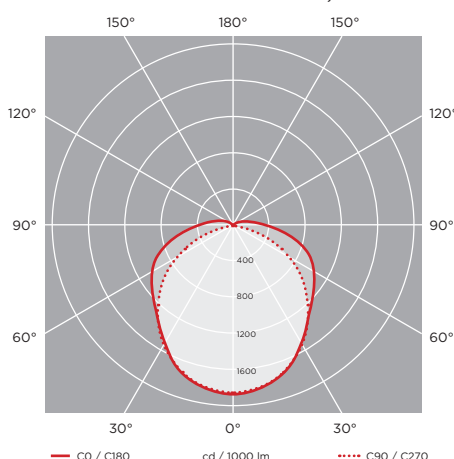


Photometric curves:

872-Entry PC 4ft (1200mm) PC,
Osram Basic Linear G3, 39W, 5000lm



872-Entry PC 5ft (1500mm) PC,
Lumnium EU PRO 160 41W, 6300lm



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

872-ENTRY NB

Industrial dust and waterproof luminaires with LED modules and with narrow beam optics

Trend-setting lighting in IP66 (option in IP67), quick installation. Specially developed for LED applications.

YOUR MAIN BENEFITS:

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



872-ENTRY 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. (Optionally available in IP67). In accordance with their IP rating they can be widely used to illuminate spaces with dusty and humid environment. When using outdoors, the fittings should be protected against direct sunlight and adverse weather conditions. Under 0°C the application of venting cable gland is necessary, as well as the silicone gasket is recommended.

TECHNICAL DESCRIPTION AND BENEFITS:

- **Housing:** - Available in flame retardant **glass fibre reinforced polyester**, in light grey (RAL7035) colour (on request suitable for 850°C glow wire test too). 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.
- Available in **PC** - injection moulded **Polycarbonate** in light grey (RAL7035) colour (suitable for 850°C glow wire test too). Polycarbonate has high mechanical strength and high heat and 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).

Further benefits:

- **Extremely high lighting efficiency** through high **light permeability, unique on the market**, up to 90%
- An **excellent light uniformity** through **well-balanced light dispersing** (no shadows)
- **Elimination of the dazzling effect** (no glare)
- **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) and slim **shape 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 tamper-proof (vandal-proof) 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 electronic driver, that is built into the luminaire.

Main technical options

Our **transparent** diffuser achieves an **outstanding light transmissivity of up to 90%**. With this great light permeability, it is **an excellent choice for luminaires equipped with LED-modules**.



Narrow beam optics



LED

872-ENTRY NB

In order to optimise the thermal management of the luminaire we avoid the direct contact of the gear tray and driver, thus increasing the lifetime of the modules and driver.



With 872-Entry NB - depending on customer requirements - we can reach different levels of luminous flux (lumen). Details see: Technical data.

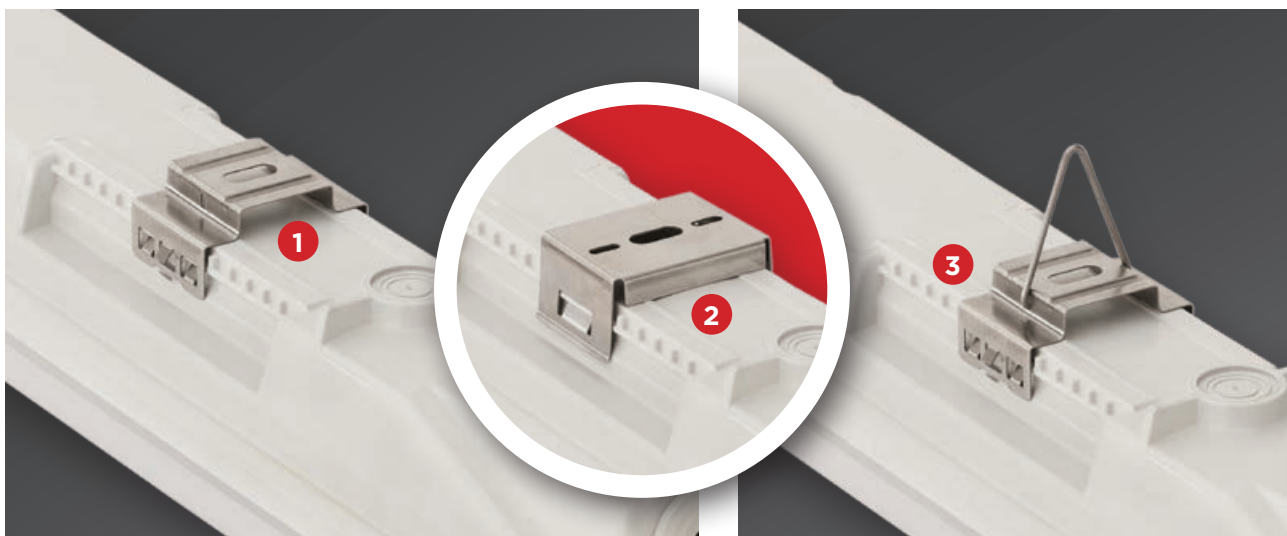
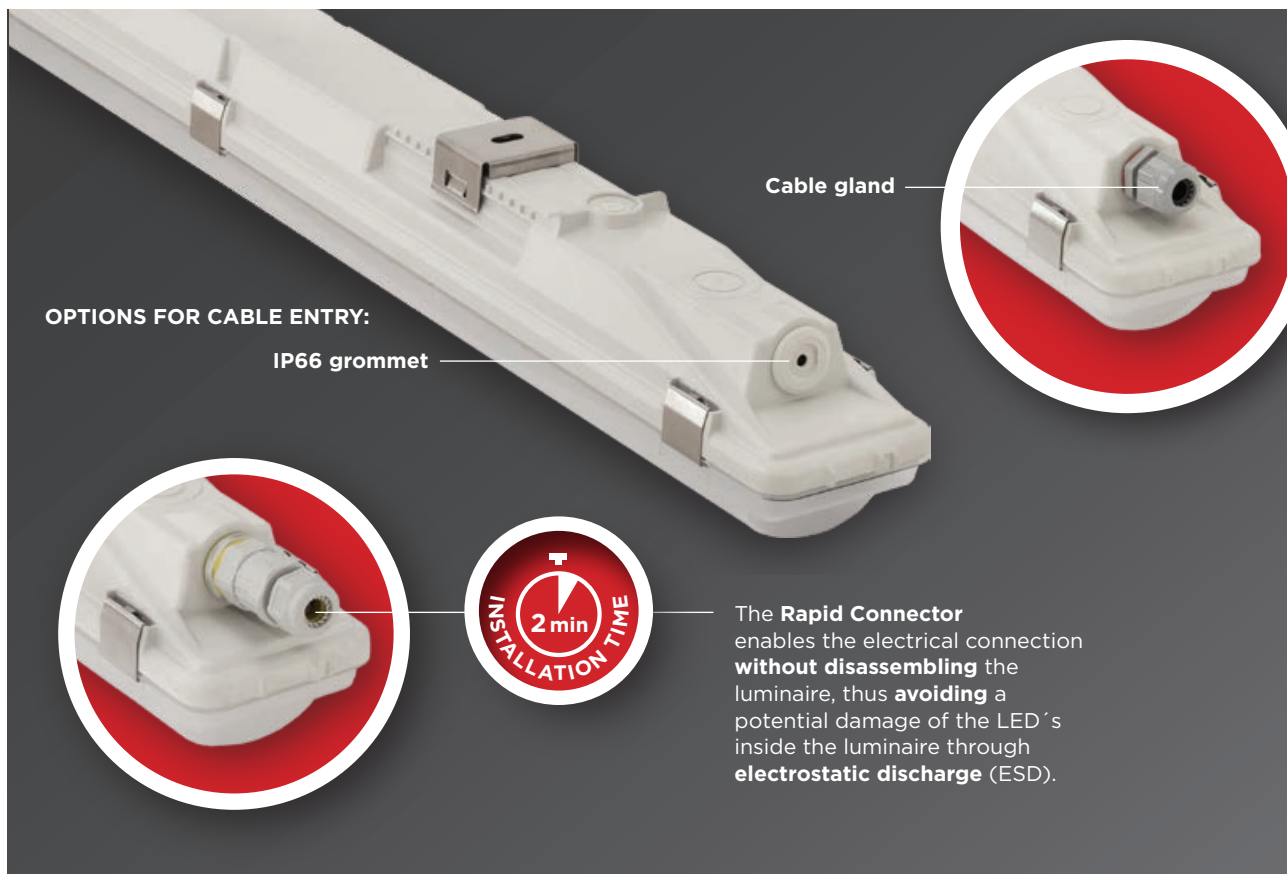
The gear tray is made of white powder coated steel sheet according to **Zhaga** standards. On request customisation possible.



The special **tamper-proof stainless steel clips** cannot be released with bare hands.

The **transparent diffusers** are made of UV-stabilized material, specially **developed for LED** applications. This ensures among others a well-balanced light distribution and the **elimination of glare**.

The injected **silicon-based gasket** with enhanced resistance ensures **maximum** chemical and weather **resistance** even under tough conditions. Non-aging polyurethane foam is optionally available.



Ways of installing (options):

1. With **standard** (0,4 mm) stainless steel mounting brackets (easy-to-install) onto the **ceiling**.
2. With **strengthened** (0,6 mm) stainless steel mounting brackets. They are easy-to-install onto the **ceiling or the wall** (in horizontal position).
3. **Suspension** on chains, wire ropes etc. with stainless steel mounting brackets and **with hooks**.

The mounting brackets can be positioned with **lateral flexibility** for easy installation.

Technical data (extract)

PMMA Type	Power (W)	Warranty (years)	Luminare total luminous flux - emitted (lm)	Lum. efficacy (lm/W)	Correlated colour temp (Kelvin)	CRI	Lifetime L70B50 (Ta=35°C)	Lifetime L80B10 (Ta=35°C)	A (mm)	B (mm)	Weight (kg)
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Lumnum EU 130 with Osram driver

872 4ft (1200mm)	36	5 years	5300	136	4000	>80	> 72 000 h	> 50 000 h	1185	700±78	1,5
872 5ft (1500mm)	50	5 years	7000	137	4000	>80	> 72 000 h	> 50 000 h	1477	1000±78	1,8

Lumnum EU PRO 160 with Osram driver

872 4ft (1200mm)	31	5 years	5000	161	4000	>80	> 72 000 h	> 50 000 h	1185	700±78	1,5
872 5ft (1500mm)	41	5 years	6800	165	4000	>80	> 72 000 h	> 50 000 h	1477	1000±78	1,8

Osram Basic Linear G3

872 4ft (1200mm)	39	5 years	5400	140	4000	>80	50.000 h	41.000 h	1185	700±78	1,5
872 5ft (1500mm)	47	5 years	6900	145	4000	>80	50.000 h	41.000 h	1477	1000±78	1,8

with DIP Switch PMMA Type	Power (W)	Warranty (years)	Luminare total luminous flux - emitted (lm)	Lum. efficacy (lm/W)	Correlated colour temp (Kelvin)	CRI	Lifetime L70B50 (Ta=35°C)	Lifetime L80B10 (Ta=35°C)	A (mm)	B (mm)	Weight (kg)
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Lumnum EU 130 HO with Osram driver

872 4ft (1200mm)	23	5 years	3400	136	4000	>80	> 72 000 h	> 50 000 h	1185	700±78	1,5
	28		4100								
	34		4800								
	39		5300								
872 5ft (1500mm)	30	5 years	4500	137	4000	>80	> 72 000 h	> 50 000 h	1477	1000±78	1,8
	37		5500								
	44		6400								
	51		7000								

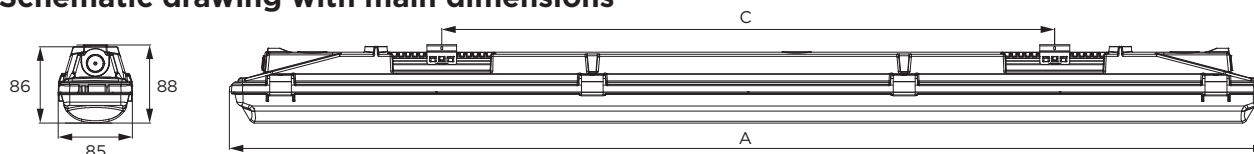
Further options:



On request:

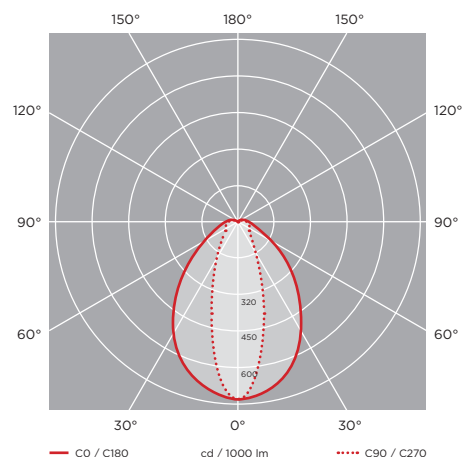


Schematic drawing with main dimensions



Photometric curves:

872-Entry NB, 5ft, Lumnum EU 130, 50W, 7000 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

LED

RETROFIT LED 771-PRO LT

Industrial dust and waterproof luminaires
With 1 and 2 LED tubes.

YOUR MAIN BENEFITS:

This product family has been **designed for energy efficient LED tubes**.
Full range available in IP65 and IP66.

CE

RETROFIT LED
771-PRO LT

FIELD OF APPLICATION:

Thanks to the construction principals of gasket, closing system and diffuser our fixtures ensure a high grade of protection (IP65, IP66) against dust, contamination and water permeation. In accordance with their IP grade they can be widely used to illuminate spaces with dusty and humid environment.

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

TECHNICAL DESCRIPTION AND BENEFITS:

■ **Housing:** It is made of flame retardant glass fibre reinforced polyester (**GRP**) – on request suitable for 850°C glow wire test too –, in light grey (RAL7035) colour. This material 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.

■ The **diffuser** is available in the following versions:

Injection moulded acrylic (PMMA):

transparent, with longitudinal prisms, designed with respect to their optical characteristics.

Main advantages of PMMA: very good transparency (better than the transparency of glass), unique nonaging properties, **high chemical** and **UV-resistance**.

Injection moulded polycarbonate (PC):

transparent, with longitudinal internal prisms, designed with respect to their optical characteristics.

Main advantages of PC: **high mechanical strength** and **high heat and shock resistance**.

■ **The gasket** between the diffuser and housing is made of non-aging PU (polyurethane) foam. Silicone-based foam with enhanced resistance is optionally available.

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

■ **Gear tray** (reflector): white powder coated steel sheet.

■ **Way of installing:** with stainless steel mounting brackets (easy-to-install) onto the wall or ceiling or suspended.

■ **Electrical components:** The adequate power supply is ensured through electronic driver, that is built in into the LED tube.

IP65



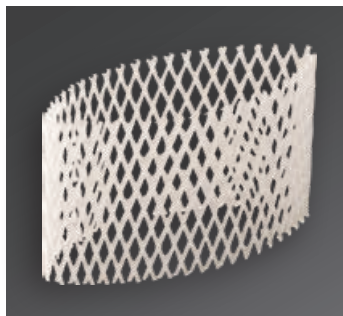
Option:

IP66



Main technical options

Optimised economical packaging with plastic net. On request traditional carton box or retail-box packaging is available.



LED



Retrofit LED 771-Pro LT has been designed for LED tubes.

The **transparent prismatic diffusers** are designed with respect to their optical characteristics and are UV resistant.



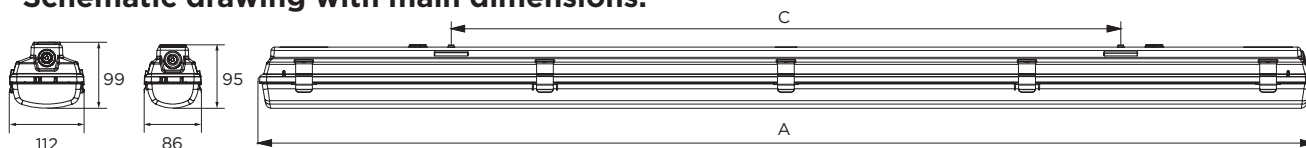
Fixing the diffuser to the body: with highly resistant stainless steel clips.

RETROFIT LED
771-PRO LT

Technical data (extract)

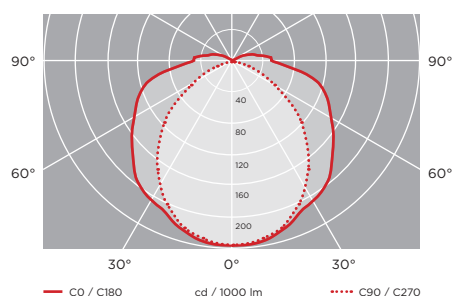
Type	Lampholder	Power (W)	Luminous flux (lm)	Dimensions A (mm)	C (mm)	Weight (kg)
771-Pro LT equipped with Retrofit LED tube (Philips Core Pro LED tube)						
771-Pro LT 1x600mm	T8/G13	1x8	680*	699	360	1,19
771-Pro LT 1x1200mm	T8/G13	1x14,5	1360*	1277	700	2,47
771-Pro LT 1x1500mm	T8/G13	1x20	1870*	1577	1000	2,57
771-Pro LT 2x600mm	T8/G13	2x8	1360*	699	360	2,31
771-Pro LT 2x1200mm	T8/G13	2x14,5	2720*	1277	700	3,35
771-Pro LT 2x1500mm	T8/G13	2x20	3740*	1577	1000	3,37

Schematic drawing with main dimensions:

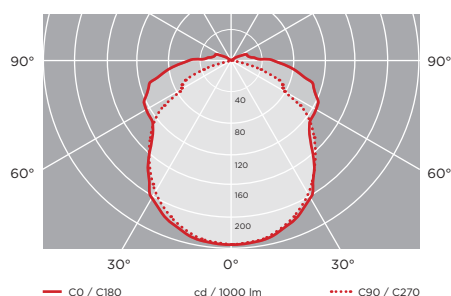


Photometric curves:

Retrofit LED 771-Pro LT
1x1200mm 1x14,5W (LED tube)



Retrofit LED 771-Pro LT
2x1500mm 2x20W (LED tube)



LED

RETROFIT LED 775-PRO LT

Industrial dust and waterproof luminaires
With 1 and 2 LED tubes.

YOUR MAIN BENEFITS:

This product family has been **designed for energy efficient LED tubes**.
Full range available in IP65 and IP66.

CE

RETROFIT LED
775-PRO LT

FIELD OF APPLICATION:

Thanks to the construction principals of gasket, closing system and diffuser our fixtures ensure a high grade of protection (IP65, IP66) against dust, contamination and water permeation. In accordance with their IP grade they can be widely used to illuminate spaces with dusty and humid environment.

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

TECHNICAL DESCRIPTION AND BENEFITS:

- **Housing:** It is made of flame retardant injection moulded polycarbonate (**PC**) – suitable for 850°C glow wire test too –, in light grey (RAL7035) colour. This material has very high mechanical strength and allows us to reach an excellent shock resistance.
- The **diffuser** is available in the following versions:
Injection moulded acrylic (PMMA):
 transparent, with longitudinal prisms, designed with respect to their optical characteristics.
 Main advantages of PMMA: very good transparency (better than the transparency of glass), unique nonaging properties, **high chemical** and **UV-resistance**.
Injection moulded polycarbonate (PC):
 transparent, with longitudinal internal prisms, designed with respect to their optical characteristics.
 Main advantages of PC: **high mechanical strength and high heat and shock resistance**.
- **The gasket** between the diffuser and housing is made of non-aging PU (polyurethane) foam. Silicone-based foam with enhanced resistance is optionally available.
- **Fixing the diffuser to the body:** with stainless steel clips.
- **Gear tray** (reflector): white powder coated steel sheet.
- **Way of installing:** with **stainless steel mounting brackets** (easy-to-install) onto the wall or ceiling or suspended.
- **Electrical components:** The adequate power supply is ensured through electronic driver, that is built in into the LED tube.

IP65



Option:

IP66



Main technical options

Optimised economical packaging with plastic net. On request traditional carton box or retail-box packaging is available.



LED



Retrofit LED 775-Pro LT has been designed for LED tubes.

The **transparent prismatic diffusers** are designed with respect to their optical characteristics and are UV resistant.



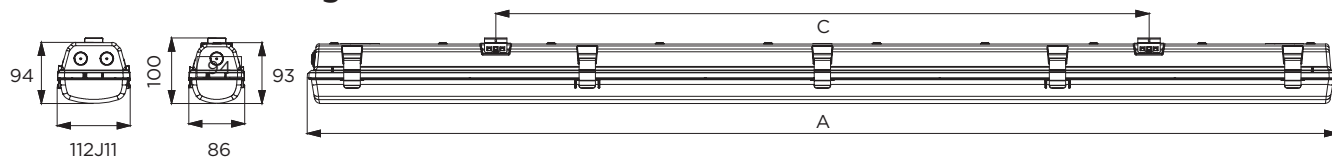
Fixing the diffuser to the body: with highly resistant stainless steel clips.

**RETROFIT LED
775-PRO LT**

Technical data (extract)

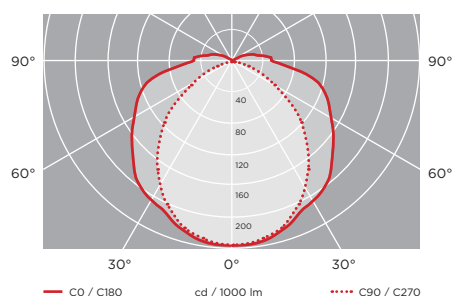
Type	Lampholder	Power (W)	Luminous flux (lm)	Dimensions A (mm)	C (mm)	Weight (kg)
775-Pro LT equipped with Retrofit LED tube (Philips Core Pro LED tube)						
775-Pro LT 1x600mm	T8/G13	1x8	680*	699	360	1,19
775-Pro LT 1x1200mm	T8/G13	1x14,5	1360*	1277	700	2,47
775-Pro LT 1x1500mm	T8/G13	1x20	1870*	1577	1000	2,57
775-Pro LT 2x600mm	T8/G13	2x8	1360*	699	360	2,31
775-Pro LT 2x1200mm	T8/G13	2x14,5	2720*	1277	700	3,35
775-Pro LT 2x1500mm	T8/G13	2x20	3740*	1577	1000	3,37

Schematic drawing with main dimensions:

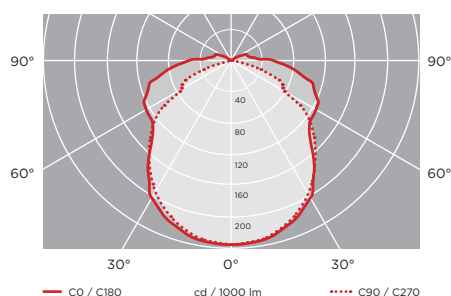


Photometric curves:

Retrofit LED 775-Pro LT
1x1200mm 1x14,5W (LED tube)



Retrofit LED 775-Pro LT
2x1500mm 2x20W (LED tube)



LED

RETROFIT LED 746-PRO LT

Industrial dust and waterproof luminaires
With 1 and 2 LED tubes.

YOUR MAIN BENEFITS:

This product family has been **designed for energy efficient LED tubes**.

Full range available in IP65 and IP66.

Thanks to its special construction this model offers you an additional price advantage: It can be used **without any gear tray**.

CE

RETROFIT LED
746-PRO LT

IP65



FIELD OF APPLICATION:

Thanks to the construction principals of gasket, closing system and diffuser our fixtures ensure a high grade of protection (IP65, IP66) against dust, contamination and water permeation. In accordance with their IP grade they can be widely used to illuminate spaces with dusty and humid environment.

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

TECHNICAL DESCRIPTION AND BENEFITS:

■ **Housing:** It is made of flame retardant glass fibre reinforced polyester (**GRP**) – on request suitable for 850°C glow wire test too –, in light grey (RAL7035) colour. This material 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.

■ The **diffuser** is available in the following versions:

Injection moulded acrylic (PMMA):

transparent, with longitudinal prisms, designed with respect to their optical characteristics.

Main advantages of PMMA: very good transparency (better than the transparency of glass), unique nonaging properties, **high chemical** and **UV-resistance**.

Injection moulded polycarbonate (PC):

transparent, with longitudinal internal prisms, designed with respect to their optical characteristics.

Main advantages of PC: **high mechanical strength** and **high heat and shock resistance**.

■ **The gasket** between the diffuser and housing is made of non-aging PU (polyurethane) foam. Silicone-based foam with enhanced resistance is optionally available.

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

■ **Gear tray** (reflector): **No gear tray needed.** The electrical components are mounted directly into the housing. As option white powder coated steel sheet gear tray is available.

■ **Way of installing:** direct (with screws) or with stainless steel mounting brackets (easy-to-install) onto the wall or ceiling or suspended.

■ **Electrical components:** The adequate power supply is ensured through electronic driver, that is built in into the LED tube.

Option:

IP66



Main technical options

Optimised economical packaging with plastic net. On request traditional carton box or retail-box packaging is available.



LED



Retrofit LED 746-Pro LT has been designed for LED tubes. Thanks to its special construction this model offers you an additional price advantage: The application of a gear tray can be omitted without any negative impact on the efficiency and luminous flux, as the surface needed for light reflection is ensured by the LED tube itself.

The **transparent prismatic diffusers** are designed with respect to their optical characteristics and are UV resistant.



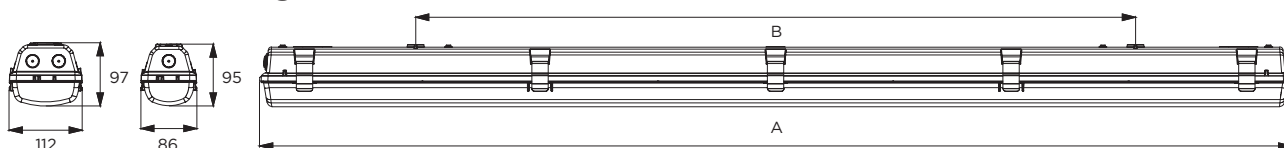
Fixing the diffuser to the body: with highly resistant stainless steel clips.

**RETROFIT LED
746-PRO LT**

Technical data (extract)

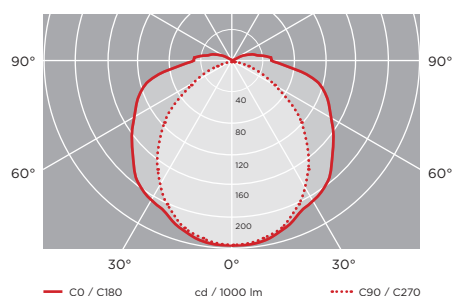
Type	Lampholder	Power (W)	Luminous flux (lm)	Dimensions A (mm)	B (mm)	Weight (kg)
746-Pro LT equipped with Retrofit LED tube (Philips Core Pro LED tube)						
746-Pro LT 1x600mm	T8/G13	1x8	680*	699	435	1,19
746-Pro LT 1x1200mm	T8/G13	1x14,5	1360*	1277	800	2,47
746-Pro LT 1x1500mm	T8/G13	1x20	1870*	1577	1100	2,57
746-Pro LT 2x600mm	T8/G13	2x8	1360*	699	435	2,31
746-Pro LT 2x1200mm	T8/G13	2x14,5	2720*	1277	800	3,35
746-Pro LT 2x1500mm	T8/G13	2x20	3740*	1577	1100	3,37

Schematic drawing with main dimensions:

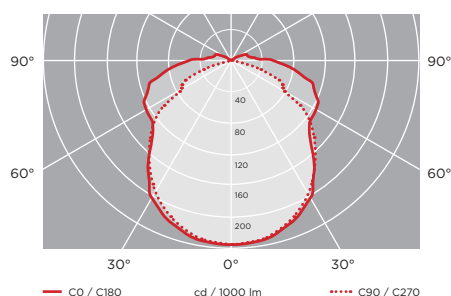


Photometric curves:

Retrofit LED 746-Pro LT
1x1200mm 1x14,5W (LED tube)



Retrofit LED 746-Pro LT
2x1500mm 2x20W (LED tube)





792-XSLIDE

Industrial dust and waterproof luminaires with LED modules

YOUR MAIN BENEFITS:

Comfortable and **quick installation** without disassembling the luminaire

Extruded profile with **outstanding light transmissivity**

Slender design and clean impression, specially developed for LED applications

Glued end caps with **pull-out (sliding) tray** for easy connection

Economical and **cost-efficient**



CE

792-XSLIDE

FIELD OF APPLICATION:

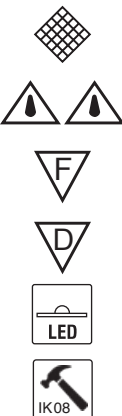
Thanks to the construction principles of gasket, end caps and the extruded profile our LED fixtures ensure a high grade of protection (IP 65) against dust, contamination and water permeation. In accordance with their IP grade they can be widely used to illuminate spaces with dusty, humid environment.

When using outdoors, the fittings should be protected against direct sunlight and adverse weather conditions.

TECHNICAL DESCRIPTION AND BENEFITS:

- **Housing:** Made of **Polycarbonate (PC)** by **co-extrusion**. The housing is made in light grey (RAL7035) colour. The diffusing (upper) part is opalised. Thanks to the used raw material the whole fitting shows very high mechanical strength and **high heat and shock resistance (IK08)**.
- The **co-extruded opal** diffuser offers you:
 - **extremely high light transmissivity** (up to 90%) **unique on the market**
 - **homogenous, well-balanced light dispersing** (no shadows)
 - **elimination of the dazzling effect** (no glare)
 - **unique appearance** and **clean impression** (**no clips, no dots** of the single LED's)
 - **keeping the usual, well-known features of the diffuser** such as chemical and heat resistance, mechanical features, **UV stabilization** etc.
- **End caps:** Made of extremely resistant polyamide and glued to the housing.
- **Gear tray** (reflector): White powder coated steel sheet according to **Zhaga** standards or customized.
- **Electrical components:** The adequate power supply is ensured through electronic driver, that is built into the luminaire.

IP65



Option:

IP66

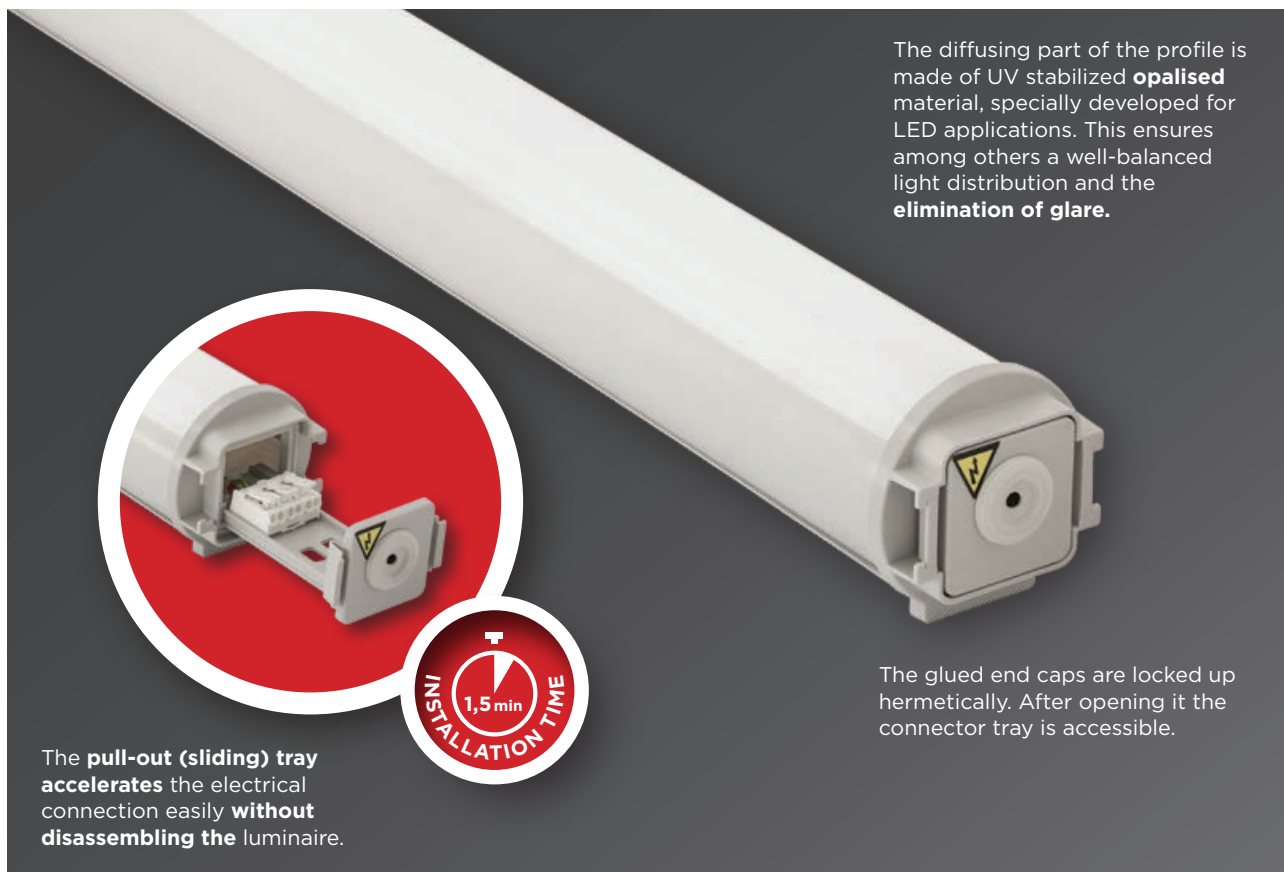


Main technical options

The gear tray is made of white powder coated steel sheet according to **Zhaga** standards.



The diffusing part of the profile is made of UV stabilized **opalised** material, specially developed for LED applications. This ensures among others a well-balanced light distribution and the **elimination of glare**.



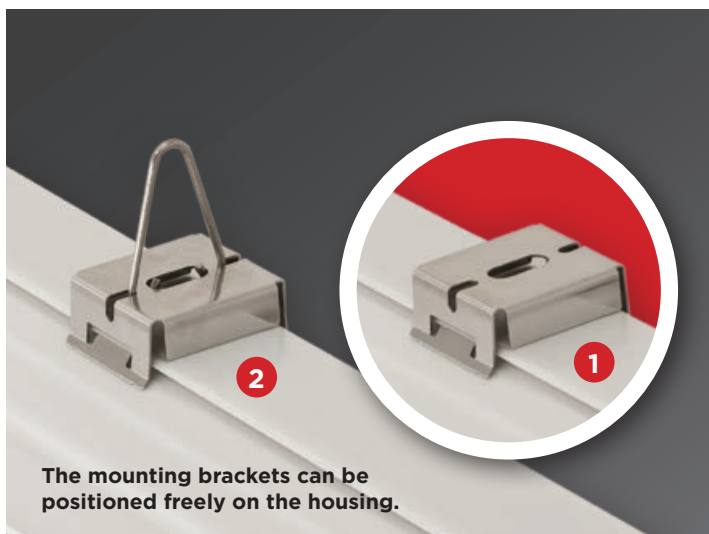
The **pull-out (sliding) tray** **accelerates** the electrical connection easily **without disassembling the luminaire**.



The glued end caps are locked up hermetically. After opening it the connector tray is accessible.



IP 65 protection is ensured by adhesive that secures the end caps to the body.



The mounting brackets can be positioned freely on the housing.

Ways of installing:

1. With **strengthened** stainless steel mounting brackets. They are easy to install onto the wall or ceiling.
2. **Suspension on chains or rope** with stainless steel suspension brackets mounted with **hooks**.

Technical data (extract)



PC Type	Power (W)	Warranty (years)	Luminaire total luminous flux - emitted (lm)	Lum. efficacy (lm/W)	Correlated colour temp (Kelvin)	CRI	Lifetime L70B50 (Ta=35°C)	Lifetime L80B10 (Ta=35°C)	A (mm)	B (mm)	Weight (kg)
Lumnium EU 130 SO with Osram driver											
792 2ft (600mm)	24	5 years	3000	125	4000	>80	>72 000 h	>50 000 h	610	230	0,91
792 4ft (1200mm)	25	5 years	3200	128	4000	>80	>72 000 h	>50 000 h	1180	860	1,49
792 5ft (1500mm)	30	5 years	4000	133	4000	>80	>72 000 h	>50 000 h	1480	1160	1,79
792 4ft (1200mm)	38	5 years	4900	128	4000	>80	>72 000 h	>50 000 h	1180	860	1,49
792 5ft (1500mm)	50	5 years	6500	130	4000	>80	>72 000 h	>50 000 h	1480	1160	1,79
Lumnium EU PRO 160 SO with Osram driver											
792 4ft (1200mm)	22	5 years	3200	145	4000	>80	>72 000 h	>50 000 h	1180	860	1,49
792 5ft (1500mm)	27	5 years	4000	148	4000	>80	>72 000 h	>50 000 h	1480	1160	1,79
792 4ft (1200mm)	31	5 years	4700	151	4000	>80	>72 000 h	>50 000 h	1180	860	1,49
792 5ft (1500mm)	41	5 years	6400	156	4000	>80	>72 000 h	>50 000 h	1480	1160	1,79
Osram Basic Linear G3											
792 2ft (600mm)	21	5 years	2500	119	4000	>80	>50 000 h	>43 000 h	610	230	0,9
792 4ft (1200mm)	23	5 years	3000	131	4000	>80	>50 000 h	>50 000 h	1180	860	1,45
792 5ft (1500mm)	28	5 years	3800	138	4000	>80	>50 000 h	>50 000 h	1480	1160	1,72
792 4ft (1200mm)	39	5 years	5300	136	4000	>80	>50 000 h	>41 000 h	1180	860	1,45
792 5ft (1500mm)	47	5 years	6400	135	4000	>80	>50 000 h	>41 000 h	1480	1160	1,72

792-XSLIDE

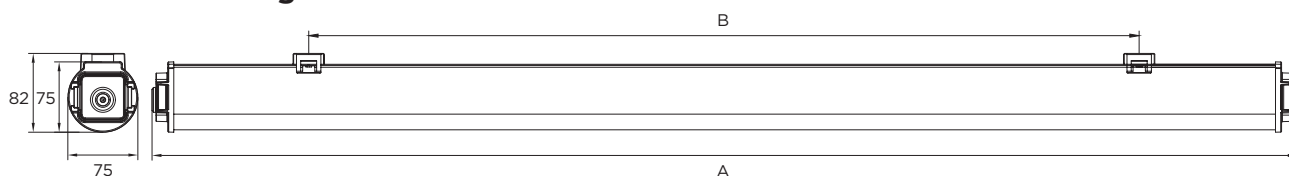
Further options:



On request:



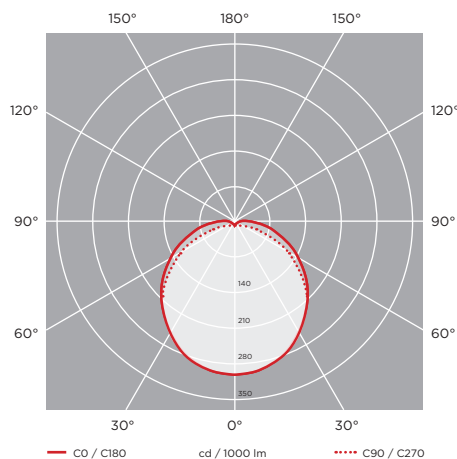
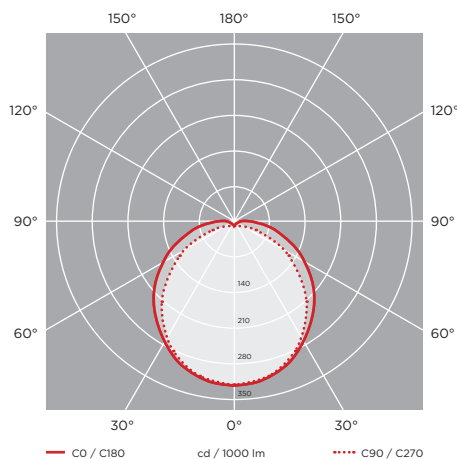
Schematic drawing with main dimensions



Photometric curves:

792-XSlide 4ft (1200mm)
Osram Basic Linear G3, 39W, 5300lm, PC

792-XSlide 5ft (1500mm)
Lumnium EU 130 HO, 51W, 6800lm, PC



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



T8/T5

T8/T5 RANGE

CLASSIC CONSTRUCTION

771-FAVOURITE

✓ STANDARD

| 90

771-ORIENT

✓ FOR HIGH
TEMPERATURES

| 95

771-VENTILA

✓ FOR OUTDOOR
APPLICATION

| 98

775-PC LINE

✓ IMPACT RESISTANT

| 102

746-CLEVER

✓ COST EFFICIENT

| 105

T8/T5 LUMINAIRES PORTFOLIO

771-FAVOURITE

Industrial dust and waterproof luminaires

With 1 and 2 fluorescent tubes for T5 or T8 lamps



YOUR MAIN BENEFITS:

A professional luminaire for wide usage, that fulfils the strongest quality requirements. Best price performance ratio. Best sold model.

Full range available in T8, T5, IP65, IP66 or IP67

771-FAVOURITE



IP65



Option:

IP66

IP67



FIELD OF APPLICATION:

Due to the construction principals of gasket, closing system and diffuser our fixtures ensure a high grade of protection (IP65, IP66 or IP67) against dust, contamination and water permeation. In accordance with their IP grade they can be used widely to illuminate spaces with dusty and humid environment.

When using outdoors, the fittings should be protected against direct sunlight and adverse weather conditions.

TECHNICAL DESCRIPTION AND BENEFITS:

■ **Housing:** It is made of flame retardant glass fibre reinforced polyester (on request suitable for 850°C glow wire test too), in light grey (RAL7035) colour. This material 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.

■ The diffuser is available in the following versions:

Injection moulded polycarbonate (PC)

Main advantages: High mechanical strength and heat and shock resistance and excellent transparency.

Injection moulded acrylic (PMMA)

Main advantages: Very good transparency (better than the transparency of glass), unique non-aging properties and chemical resistance.

Both diffusers are made with optically designed longitudinal, internal prisms and are **UV resistant**.

■ **The gasket** between the diffuser and housing is made of non-aging PU (polyurethane) foam. As option gasket with enhanced resistance is available.

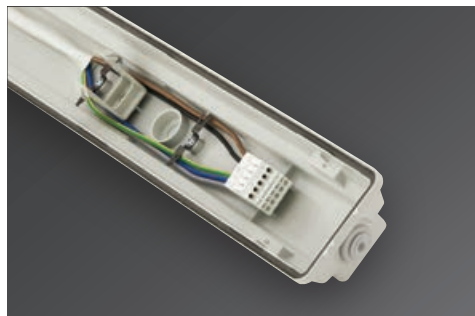
■ **Fixing the diffuser to the body:** with stainless steel clips

■ **Gear tray (reflector):** White powder coated steel sheet.
As an option glossy aluminium reflector is possible.

■ **Electrical components:** in accordance with the requested specification: LED-tube, low power factor, high power factor or electronic control gear.

Main technical options

Option:
Through wiring



Ways of installing:

1. Direct (with screws) onto the wall or ceiling.
2. With stainless steel suspension brackets (easy-to-install) onto the ceiling.
3. Suspension on chains with stainless steel suspension brackets mounted with hooks.

Depending on installation options several possibilities for cable entry.

IP67 protected (PC diffuser, cable gland, stainless steel clips and suspension brackets).



The suspension of the diffuser is possible with special stainless steel clips. (On request)

Option: To accelerate on-site installation rapid connectors can be ordered, which makes possible the electrical connection without disassembling the luminaire, and ensuring the same IP grade (IP65).

771-FAVOURITE



771-Favourite equipped with a new opalised diffuser with unique light transmissivity specially developed for LED applications. More information see in LED part of the catalogue.



Diffuser: Injection moulded polycarbonate (PC) or Acrylic (PMMA). Both diffusers are made with optically designed longitudinal internal prisms and are UV resistant.

Fixing the diffuser to the body: With secure, stainless steel clips. Cable entry through grommets or through cable glands.



Gear tray (reflector): white powder coated steel sheet, which is fixed to the body by flexible gear tray retaining clips. Therefore it is easy to remove and suspend it during installation.



Universal gear tray for both, T8 as well as T5 version

Further options:

- LED tubes
- emergency kit
- aluminium reflector
- dimmable ballast
- Class II protection
- IP66
- halogen-free wiring

Technical data (extract)

Type	Tube/Lampholder	Power (W)	Warranty (years)	Dimensions A (mm)	B (mm)	C (mm)	Weight (kg)
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With electronic control gear for T8 fluorescent tubes

771 118 EVG	T8/G13	1 x 18	2 years	669	460	360	1,67
771 136 EVG	T8/G13	1 x 36	2 years	1 277	800	700	2,12
771 158 EVG	T8/G13	1 x 58	2 years	1 577	1 100	1 000	2,38
771 218 EVG	T8/G13	2 x 18	2 years	669	460	360	2,24
771 236 EVG	T8/G13	2 x 36	2 years	1 277	800	700	2,66
771 258 EVG	T8/G13	2 x 58	2 years	1 577	1 100	1 000	2,96

With electronic control gear for T5 HE class fluorescent tubes

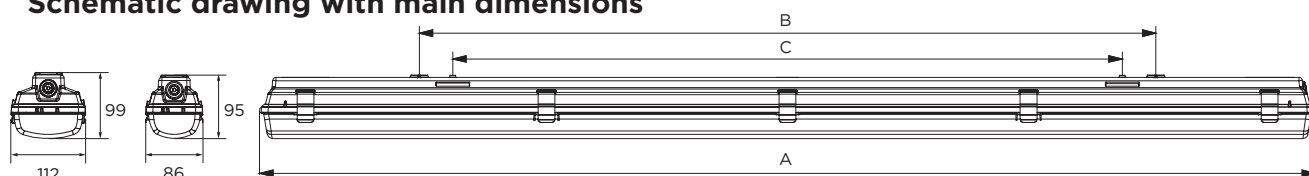
771 114 EVG	T5/G5	1 x 14	2 years	669	460	360	1,71
771 128 EVG	T5/G5	1 x 28	2 years	1 277	800	700	2,16
771 135 EVG	T5/G5	1 x 35	2 years	1 577	1 100	1 000	2,39
771 214 EVG	T5/G5	2 x 14	2 years	669	460	360	2,25
771 228 EVG	T5/G5	2 x 28	2 years	1 277	800	700	2,52
771 235 EVG	T5/G5	2 x 35	2 years	1 577	1 100	1 000	2,77

With electronic control gear for T5 HO fluorescent tubes

771 124 EVG	T5/G5	1 x 24	2 years	669	460	360	1,63
771 154 EVG	T5/G5	1 x 54	2 years	1 277	800	700	2,16
771 149 EVG	T5/G5	1 x 49	2 years	1 577	1 100	1 000	2,53
771 180 EVG	T5/G5	1 x 80	2 years	1 577	1 100	1 000	2,58
771 224 EVG	T5/G5	2 x 24	2 years	669	460	360	2,23
771 254 EVG	T5/G5	2 x 54	2 years	1 277	800	700	2,52
771 249 EVG	T5/G5	2 x 49	2 years	1 577	1 100	1 000	2,77
771 280 EVG	T5/G5	2 x 80	2 years	1 577	1 100	1 000	2,84

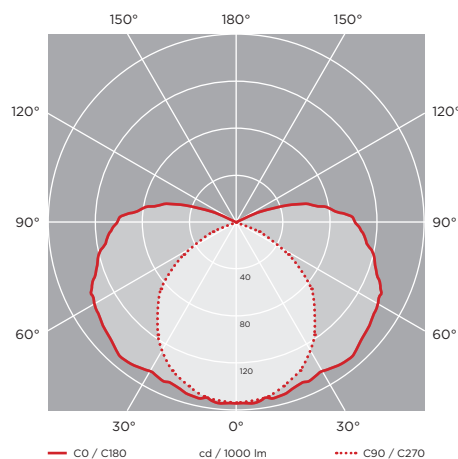
771-FAVOURITE

Schematic drawing with main dimensions

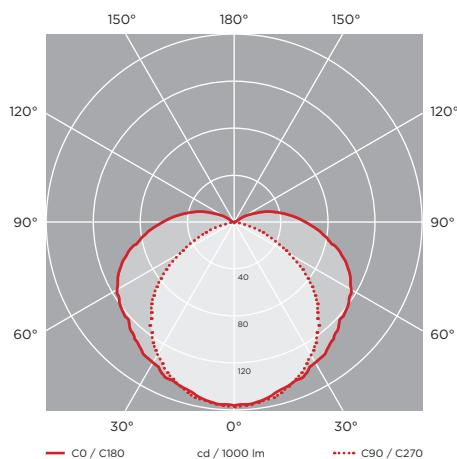


Photometric curves:

771-Favourite 1x58W



771-Favourite 2x58W





771-ORIENT

Industrial dust and waterproof luminaires

With 1 and 2 fluorescent tubes for T8 or T5 lamps

YOUR MAIN BENEFITS:

A professional luminaire for wide usage, that fulfils the strongest quality requirements. Especially for applications, where **high heat resistance** (up to $T_a +50\text{ }^{\circ}\text{C}$) is required. Available in IP65 or IP66



FIELD OF APPLICATION:

Field of application: Due to the construction principles of gasket, closing system and diffuser our fixtures ensure a high grade of protection (IP65, IP66) against dust, contamination and water permeation. In accordance with their IP rating they can be used widely to illuminate spaces with dusty and humid environment.

Thanks to its **enhanced heat resistance**, 771-Orient is especially suitable for applications, where **error-free functioning at higher ambient temperature** is desired.

When using outdoors, the fittings should be protected against direct sunlight and adverse weather conditions.

TECHNICAL DESCRIPTION AND BENEFITS:

- **Housing:** It is made of flame retardant glass fibre reinforced polyester (on request suitable for 850°C glow wire test too), in light grey (RAL7035) colour. This material 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.
- The **diffuser** is available in injection moulded polycarbonate (PC).
Main advantages: High mechanical strength and high heat and shock resistance and excellent transparency.
The diffusers are designed with respect to their optical characteristics and are UV resistant.
- In order to ensure **maximum heat**, chemical and weather **resistance** even under tough conditions, the **gasket** between the diffuser and housing is made of **silicon-based foam** with enhanced resistance. Non-aging PU (polyurethane) foam is optionally available.
- **Fixing the diffuser to the body:** with highly resistant stainless steel clips
- **Gear tray** (reflector): White powder coated steel sheet. As an option glossy aluminium reflector is possible.
- **Electrical components:** electronic control gear.

CE

771-ORIENT

IP65



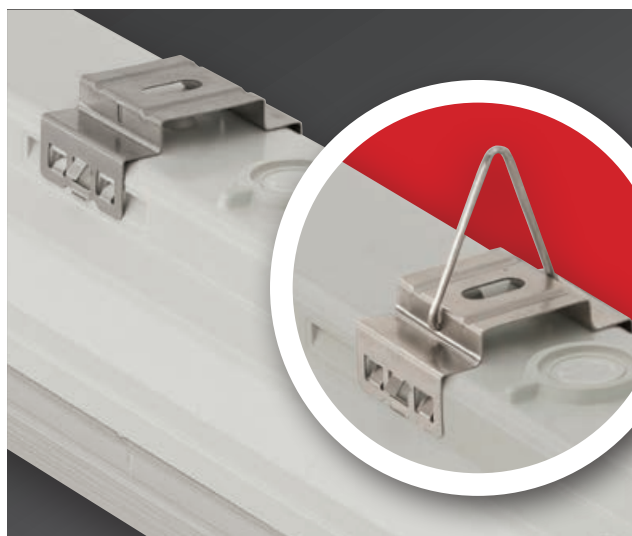
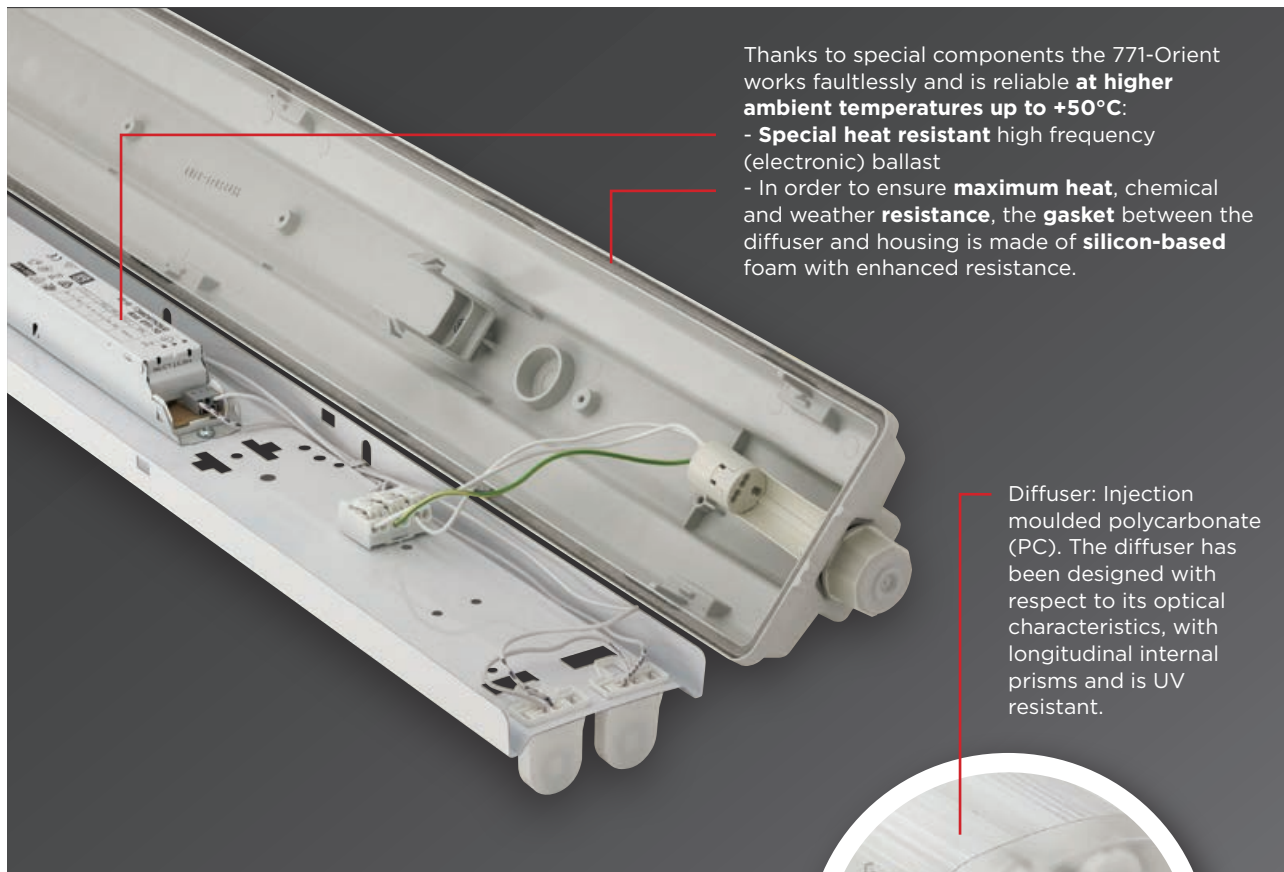
Option:

IP66



Main technical options

Gear tray (reflector): white powder coated steel sheet, which is fixed to the body by flexible gear tray retaining clips. Therefore it is easy to remove and suspend it during installation.



Ways of installing:

1. Direct (with screws) onto the wall or ceiling.
2. With stainless steel suspension brackets (easy-to-install) onto the ceiling.
3. Suspension on chains with stainless steel suspension brackets mounted with hooks.

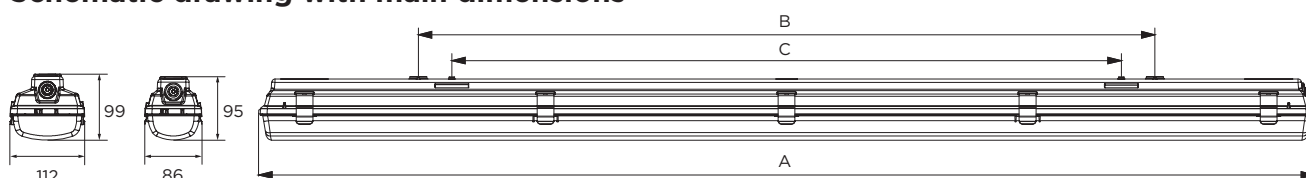
Fixing the diffuser to the body: With highly resistant stainless steel clips. Cable entry through grommets or through cable glands.

Technical data (extract)

Type	Tube/Lampholder	Power (W)	Warranty (years)	Dimensions A (mm)	B (mm)	C (mm)	Weight (kg)
With electronic control gear for T8 fluorescent tubes							
Orient 136 EVG	T8/G13	1 x 36	2 years	1 277	800	700	2,12
Orient 158 EVG	T8/G13	1 x 58	2 years	1 577	1 100	1 000	2,38
Orient 236 EVG	T8/G13	2 x 36	2 years	1 277	800	700	2,66
Orient 258 EVG	T8/G13	2 x 58	2 years	1 577	1 100	1 000	2,96
With electronic control gear for T5 HE class fluorescent tubes							
Orient 128 EVG	T5/G5	1 x 28	2 years	1 277	800	700	2,16
Orient 135 EVG	T5/G5	1 x 35	2 years	1 577	1 100	1 000	2,39
Orient 228 EVG	T5/G5	2 x 28	2 years	1 277	800	700	2,52
Orient 235 EVG	T5/G5	2 x 35	2 years	1 577	1 100	1 000	2,77

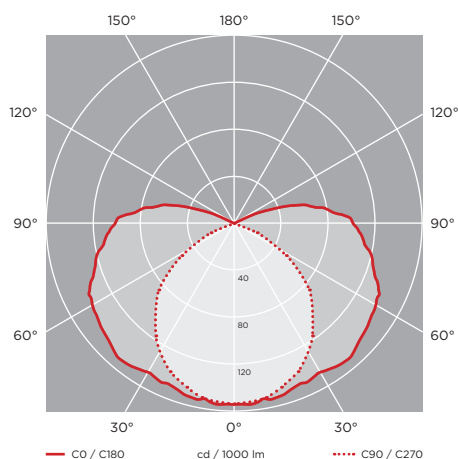
771-ORIENT

Schematic drawing with main dimensions

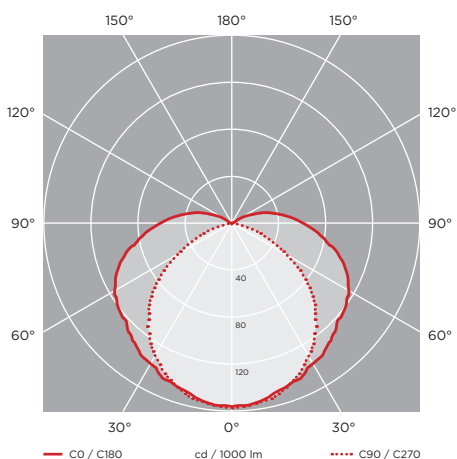


Photometric curves:

771-Orient 1x58W



771-Orient 2x58W



Further options:

- aluminium reflector
- dimmable ballast
- Class II protection
- IP66
- halogen-free wiring

771-VENTILA

Industrial dust and waterproof luminaires

With 1 or 2 fluorescent tubes in T8 or T5

YOUR MAIN BENEFITS:

A professional solution especially **for outdoor applications**. 771-Ventila withstands the impact of adverse weather conditions (sunlight, rain, wind etc.).

Ta = -20 to +25°C

Full range available in IP65 or IP66.



771-VENTILA



IP65



Option:

IP66



FIELD OF APPLICATION:

Due to the construction principles of gasket, closing system and diffuser our fixtures ensure a high grade of protection (IP65, IP66) against dust, contamination and water permeation. In accordance with their IP rating they can be used widely to illuminate areas with dusty and humid environment.

Thanks to its **enhanced weather resistance**, 771-Ventila is especially suitable for applications, where **error-free functioning in outdoor conditions** is desired.

TECHNICAL DESCRIPTION AND BENEFITS:

- **Housing:** It is made of flame retardant glass fibre reinforced polyester (on request suitable for 850°C glow wire test too), in light grey (RAL7035) colour. This material 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.
- The **diffuser** is available in injection moulded **acrylic (PMMA)** with longitudinal internal prisms. Main advantages: extremely high transparency (better than the transparency of glass), unique non-aging properties and weather resistance.
- The diffusers are designed with respect to their optical characteristics and are **UV resistant**.
- In order to ensure **maximum** heat, chemical and weather **resistance** even under tough conditions, the **gasket** between the diffuser and housing is made of **silicon-based foam** with enhanced durability.
- **Fixing of the diffuser to the body:** with highly resistant stainless steel clips (standard or tamper-proof version).
- **Gear tray** (reflector): White powder coated steel sheet according to **Zhaga** standards or customised.
- **Electrical components:** in accordance with electronic control gear (T5, T8)
- Conditions for applications at negative temperatures:
 - cold resistant fluorescent tube, (e.g. Polar)
 - cold resistant starter.

Main technical options

In order to ensure **maximum** heat, chemical and **weather resistance** even under tough conditions, the **gasket** between the diffuser and housing is made of **silicon-based** foam with enhanced durability.



Diffuser: Injection moulded Acrylic (PMMA). The diffuser is made with optically designed longitudinal internal prisms and is UV resistant



Fixing of the diffuser to the body: With highly resistant stainless steel clips. Optionally tamper-proof clips available on request.



Gear tray (reflector): white powder coated steel sheet, which is fixed to the body by flexible gear tray retaining clips. Therefore it is easy to remove and suspend it during installation.

Universal gear tray for both, T8 as well as T5 version



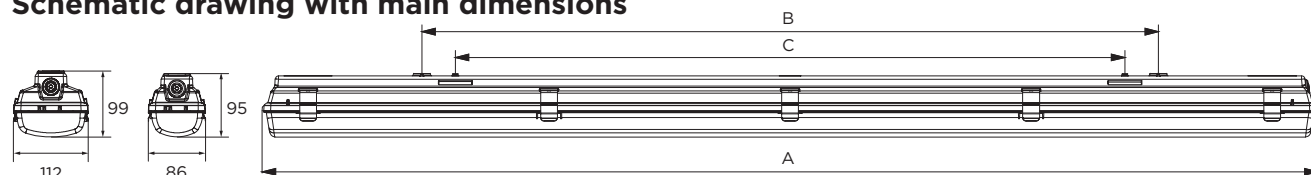
Ways of installing:

1. In order to withstand the outdoor weather conditions (wind, storm), we recommend to use **strengthened** stainless steel suspension brackets. They are easy to install onto the **wall and ceiling**.
2. **Usual** suspension brackets, suitable for installation onto the **ceiling**, are available on request.

Technical data (extract)

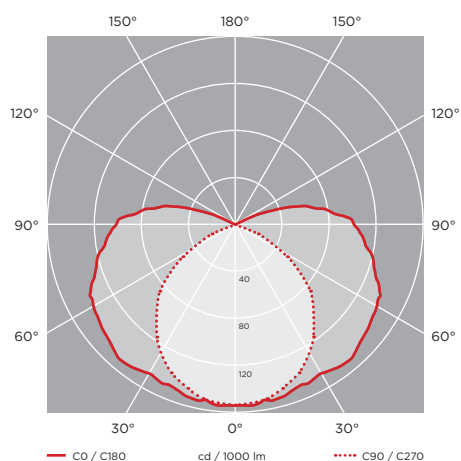
Type	Tube/Lampholder	Power (W)	Warranty (years)	Dimensions A (mm)	C (mm)	Weight (kg)
With electronic control gear for T8 fluorescent tubes						
771 Vent 118 EVG	T8/G13	1 x 18	2 years	669	360	1,67
771 Vent 136 EVG	T8/G13	1 x 36	2 years	1 277	700	2,12
771 Vent 158 EVG	T8/G13	1 x 58	2 years	1 577	1 000	2,38
771 Vent 218 EVG	T8/G13	2 x 18	2 years	669	360	2,24
771 Vent 236 EVG	T8/G13	2 x 36	2 years	1 277	700	2,66
771 Vent 258 EVG	T8/G13	2 x 58	2 years	1 577	1 000	2,96
With electronic control gear for T5 HE class fluorescent tubes						
771 Vent 114 EVG	T5/G5	1 x 14	2 years	669	360	1,71
771 Vent 128 EVG	T5/G5	1 x 28	2 years	1 277	700	2,16
771 Vent 135 EVG	T5/G5	1 x 35	2 years	1 577	1 000	2,39
771 Vent 214 EVG	T5/G5	2 x 14	2 years	669	360	2,25
771 Vent 228 EVG	T5/G5	2 x 28	2 years	1 277	700	2,52
771 Vent 235 EVG	T5/G5	2 x 35	2 years	1 577	1 000	2,77
With electronic control gear for T5 HO fluorescent tubes						
771 Vent 124 EVG	T5/G5	1 x 24	2 years	669	360	1,63
771 Vent 154 EVG	T5/G5	1 x 54	2 years	1 277	700	2,16
771 Vent 149 EVG	T5/G5	1 x 49	2 years	1 577	1 000	2,53
771 Vent 180 EVG	T5/G5	1 x 80	2 years	1 577	1 000	2,58
771 Vent 224 EVG	T5/G5	2 x 24	2 years	669	360	2,23
771 Vent 254 EVG	T5/G5	2 x 54	2 years	1 277	700	2,52
771 Vent 249 EVG	T5/G5	2 x 49	2 years	1 577	1 000	2,77
771 Vent 280 EVG	T5/G5	2 x 80	2 years	1 577	1 000	2,84

Schematic drawing with main dimensions

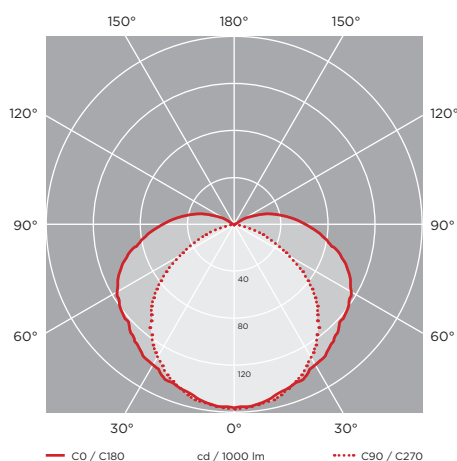


Photometric curves:

771-Ventila 1x58W



771-Ventila 2x58W



Further options:

- Class II protection
- halogen-free wiring
- motion detector
- through wiring
- DALI

775-PC LINE

Industrial dust and waterproof luminaires

With 1 and 2 fluorescent tubes for T5 or T8 lamps, in IP65 or IP66

775-PC Line is available in the following sizes:

1x36W (1x1200 mm), 1x58W (1x1500 mm), 2x36W (2x1200 mm), 2x58W (2x1500 mm)

YOUR MAIN BENEFITS:

A professional luminaire for wide usage, that fulfils the strongest quality requirements. Especially for applications, where **high impact resistance (IK rating)** is required.



775-PC LINE



IP65



FIELD OF APPLICATION:

Due to the construction principles of gasket, closing system and diffuser our fixtures ensure a high grade of protection (IP65 or IP66) against dust, contamination and water permeation. In accordance with their IP rating, they can be used widely to illuminate spaces with dusty and humid environment. Thanks to its **enhanced impact resistance**, 775-PC Line is especially suitable for applications where a high IK impact rating is required.

When using outdoors, the fittings should be protected against direct sunlight and adverse weather conditions.

TECHNICAL DESCRIPTION AND BENEFITS:

- **Housing** It is made of 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.

- The **diffuser** is available in the following versions:
Injection moulded polycarbonate (**PC**), **transparent**, with a shock resistance of IK10. The internal prisms are designed with respect to their optical characteristics.

As option injection moulded acrylic (PMMA) diffuser is available. (not IK10)
The diffusers are UV resistant.

- **The gasket** between the diffuser and housing is made of non-aging PU (polyurethane) foam. In order to ensure maximum chemical and weather resistance, silicon-based gasket with enhanced resistance is optionally available.
- **Fixing of the diffuser to the body:** with stainless steel clips.
- **Gear tray** (reflector): White powder coated steel sheet. As an option glossy aluminium reflector is possible.
- **Electrical components:** in accordance with the requested specification: LED-tube, low power factor, high power factor or electronic control gear.

Option:

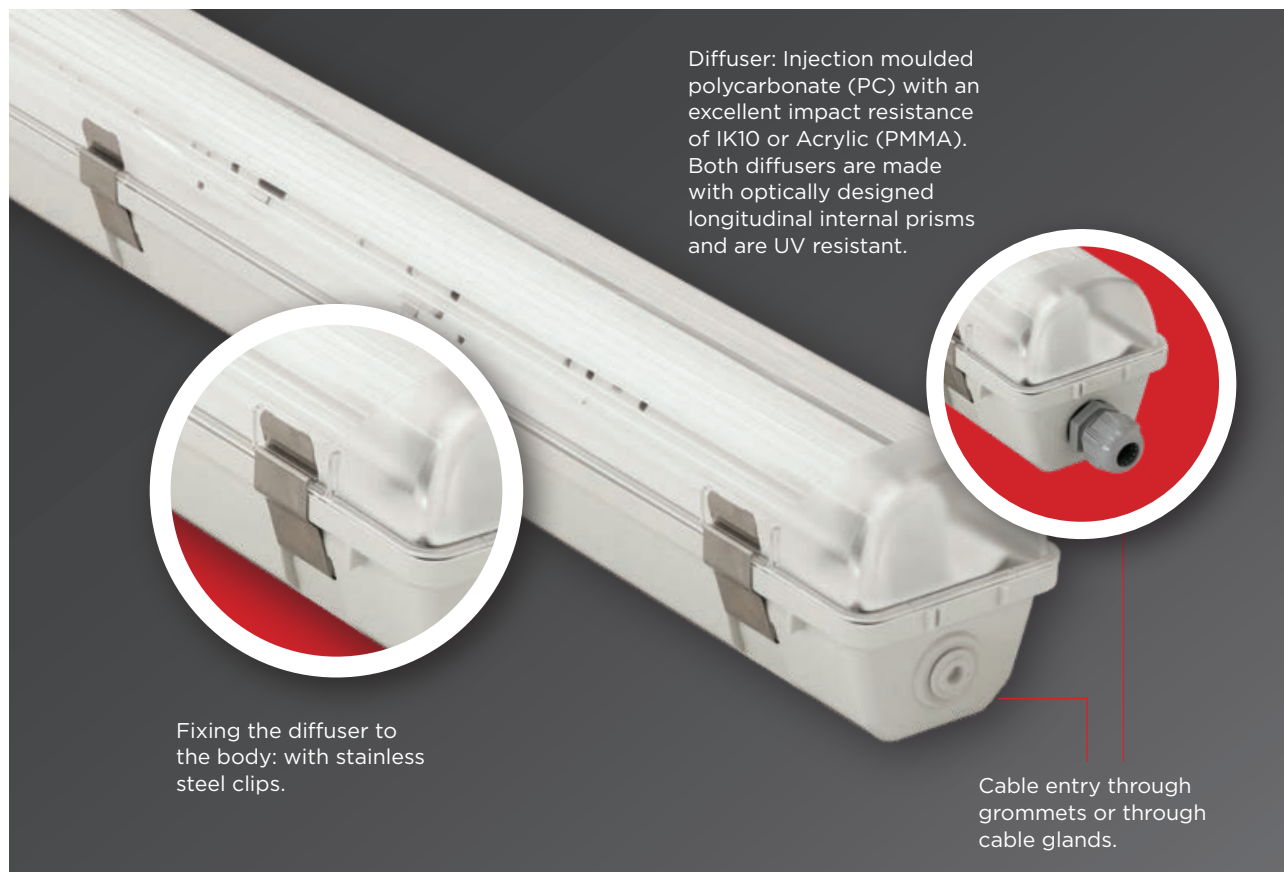
IP66

Main technical options

In order to ensure maximum chemical and weather resistance, **silicon-based gasket** with enhanced resistance is optionally available.



Universal gear tray for both, T8 as well as T5 version



Diffuser: Injection moulded polycarbonate (PC) with an excellent impact resistance of IK10 or Acrylic (PMMA). Both diffusers are made with optically designed longitudinal internal prisms and are UV resistant.



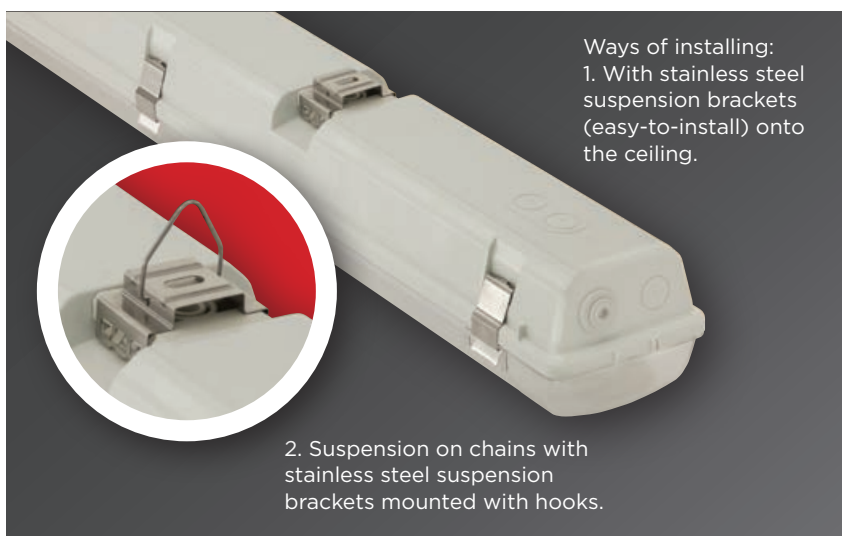
Fixing the diffuser to the body: with stainless steel clips.



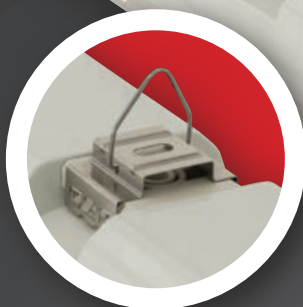
Cable entry through grommets or through cable glands.



Depending on installation options several possibilities for cable entry.



Ways of installing:
1. With stainless steel suspension brackets (easy-to-install) onto the ceiling.



2. Suspension on chains with stainless steel suspension brackets mounted with hooks.

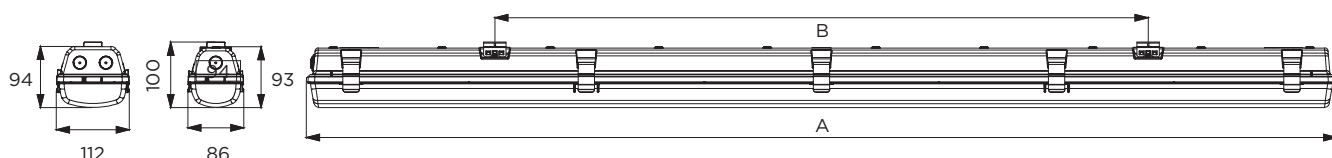
775-PC LINE



Technical data (extract)

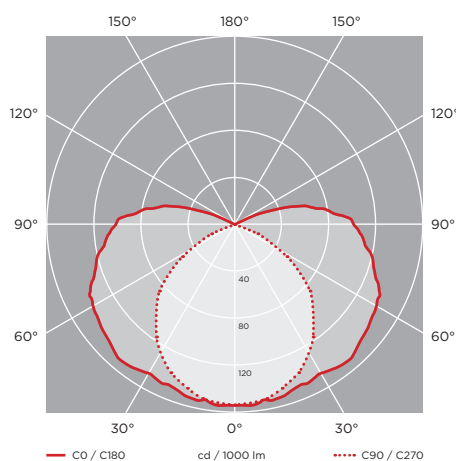
Type	Tube/Lampholder	Power (W)	Warranty (years)	Dimensions A (mm)	B (mm)	Weight (kg)
With electronic control gear for T8 fluorescent tubes						
775 136 EVG	T8/G13	1X36	2 years	1277	700	1,95
775 158 EVG	T8/G13	1X58	2 years	1577	1000	2,16
775 236 EVG	T8/G13	2X36	2 years	1277	700	2,48
775 258 EVG	T8/G13	2X58	2 years	1577	1000	2,72
With electronic control gear for T5 HE class fluorescent tubes						
775 128 EVG	T5/G5	1X28	2 years	1277	700	1,99
775 135 EVG	T5/G5	1X35	2 years	1577	1000	2,17
775 228 EVG	T5/G5	2X28	2 years	1277	700	2,34
775 235 EVG	T5/G5	2X35	2 years	1577	1000	2,53
With electronic control gear for T5 HO fluorescent tubes						
775 154 EVG	T5/G5	1X54	2 years	1277	700	1,99
775 149 EVG	T5/G5	1X49	2 years	1577	1000	2,31
775 254 EVG	T5/G5	2X54	2 years	1277	700	2,34
775 249 EVG	T5/G5	2X49	2 years	1577	1000	2,53

Schematic drawing with main dimensions

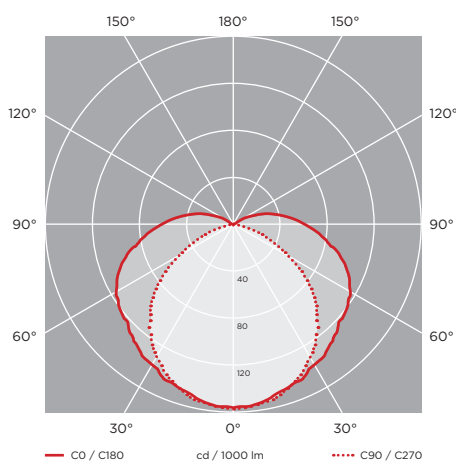


Photometric curves:

775-PC Line 1x58W



775-PC Line 2x58W



Further options:

- LED tubes
- emergency kit
- through wiring
- aluminium reflector
- dimmable ballast
- Class II protection
- IP66
- halogen-free wiring

746-CLEVER

Industrial dust and waterproof luminaires

In **basic** version (without gear tray) with 1 and 2 fluorescent tubes for **T8** lamps or with **LED tubes**.
In version with gear tray with 1 and 2 fluorescent tubes for **T5** or **T8** lamps

YOUR MAIN BENEFITS:

Beauty and functionality go hand in hand with reasonable price. Thanks to its special construction this model offers you an **additional price advantage**: It **can be used without any gear tray** (the electrical components are mounted onto the housing directly). A clever solution. Full **range available** in T8, T5, IP65



FIELD OF APPLICATION:

Thanks to the construction principles of gasket, closing system and diffuser our fixtures ensure a high grade of protection (IP65) against dust, contamination and water permeation. In accordance with their IP rating they can be widely used to illuminate spaces with dusty and humid environment. In order to reach the optimal cost-performance ratio **the basic version of 746-Clever has been developed without a gear tray**. The electrical components are mounted directly into the housing.

When using outdoors, the fittings should be protected against direct sunlight and adverse weather conditions.

TECHNICAL DESCRIPTION AND BENEFITS:

- **Housing:** It is made of flame retardant glass fibre reinforced polyester (on request suitable for 850°C glow wire test too), in light grey (RAL7035) colour. This material 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.
- The **diffuser** is available in the following versions:
Injection moulded acrylic (PMMA):
transparent, with longitudinal prisms, designed with respect to their optical characteristics.
Main advantages of PMMA: Very good transparency (better than the transparency of glass), unique nonaging properties, chemical and **UV-resistance**.
Injection moulded polycarbonate (PC):
transparent, with longitudinal internal prisms, designed with respect to their optical characteristics.
Main advantages of PC: High mechanical strength and high heat and shock resistance.
- **The gasket** between the diffuser and housing is made of non-aging PU (polyurethane) foam. As option gasket with enhanced resistance is available.
- **Fixing the diffuser to the body:** with stainless steel clips
- **Gear tray (reflector):** As option white powder coated steel sheet gear tray or glossy aluminium reflector.
- **Way of installing:** direct (with screws) onto the wall or ceiling or suspended.
- **Electrical components:** in basic version (without gear tray) low power factor. In case of construction with gear tray, in accordance with the requested specification: LED-tube, low power factor, high power factor or electronic control gear in T8 or T5.

CE

746-CLEVER

IP65



Option:

IP66



Main technical options

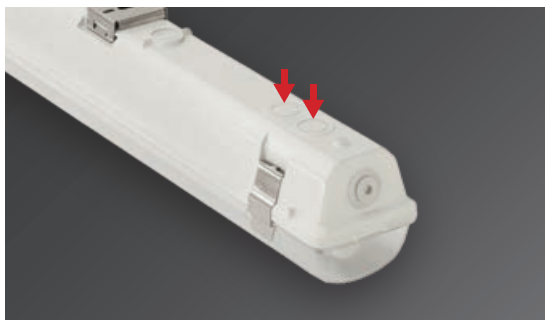
746-Clever can be used in two versions: **without** gear tray (basic) as well as **with** gear tray (enhanced)



Optimised economical packaging with plastic net. On request traditional single carton box or a large box option is available to package 4 luminaires.



746-Clever equipped with LED tubes

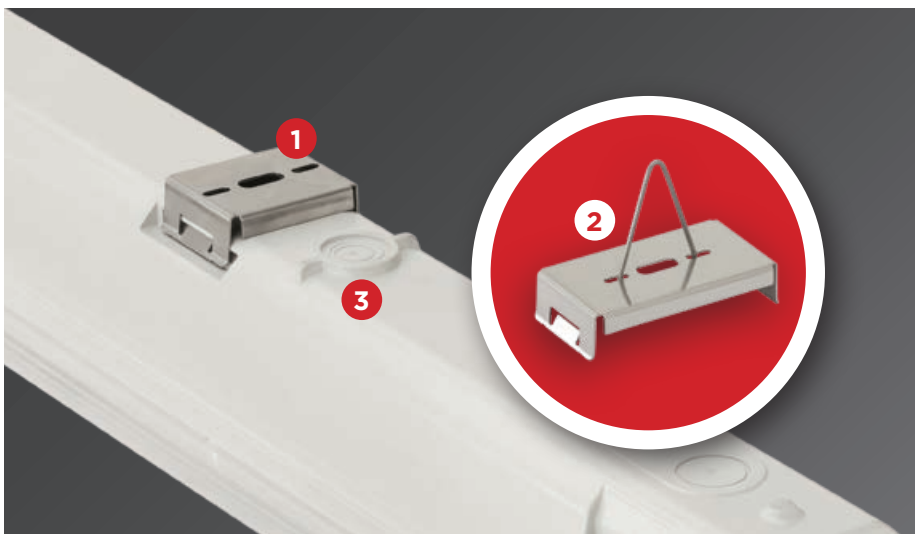


Several possibilities
for cable entry.



Transparent polycarbonate (PC) or Acrylic (PMMA) diffuser. Both are made with optically designed longitudinal internal prisms and are UV resistant.

Fixing the diffuser to the body:
stainless steel clips.



Further options:

- LED tubes
- emergency kit
- through wiring
- aluminium reflector
- dimmable ballast
- rapid connector
- halogen-free wiring

Ways of installing:

1. With stainless steel suspension brackets (easy-to-install) onto the ceiling.
2. Suspension on chains with stainless steel suspension brackets mounted with hooks.
3. Direct (with screws) onto the wall or ceiling.

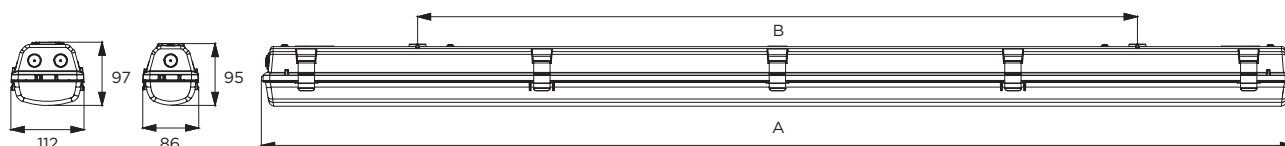
746-CLEVER



Technical data (extract)

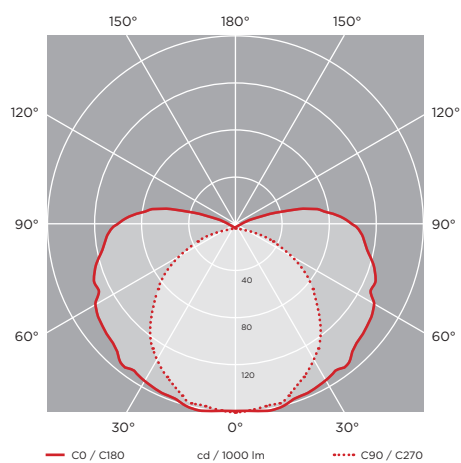
Type	Tube/Lampholder	Power (W)	Warranty (years)	Dimensions A (mm)	B (mm)	Weight (kg)
With electronic control gear for T8 fluorescent tubes, version without gear tray						
746 118 EVG	T8/G13	1 x 18	2 years	669	415	0,89
746 136 EVG	T8/G13	1 x 36	2 years	1 277	800	1,37
746 158 EVG	T8/G13	1 x 58	2 years	1 577	1 100	1,67
746 218 EVG	T8/G13	2 x 18	2 years	669	415	1,09
746 236 EVG	T8/G13	2 x 36	2 years	1 277	800	1,79
746 258 EVG	T8/G13	2 x 58	2 years	1 577	1 100	2,13

Schematic drawing with main dimensions

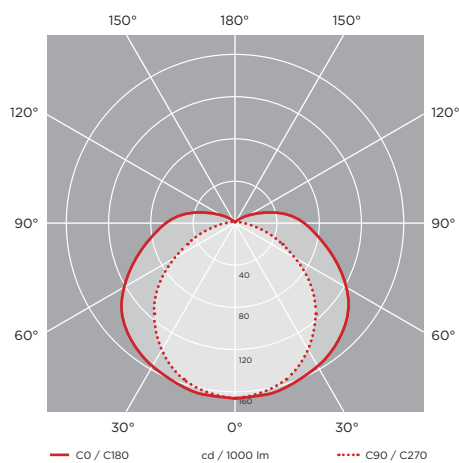


Photometric curves:

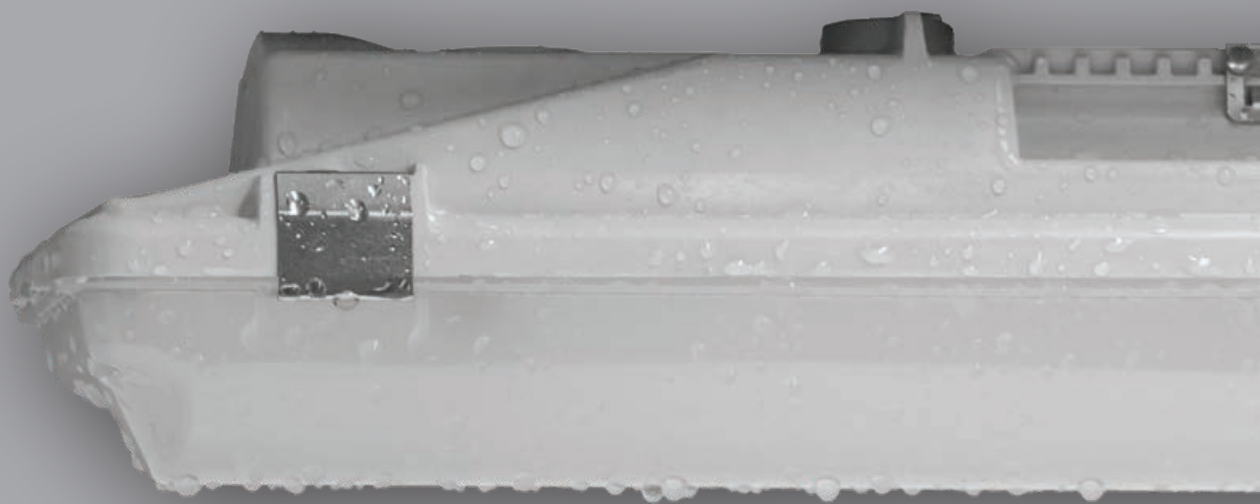
746-Clever 1x36W



746-Clever 2x36W



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