775-PC LED

Industrial dust and waterproof luminaires

Equipped with **LED modules**. 775-PC LED is available in the following sizes: 1x1200 mm (1x36W), 1x1500 mm (1x58W), 2x1200 mm (2x36W), 2x1500 mm (2x58W)

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).

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 environments. Thanks to its **enhanced impact resistance**, 775-PC LED 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** s 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**.

- 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, endless foam** with enhanced resistance. Non-aging **PU (polyurethane)** foam is optionally available.

- **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.

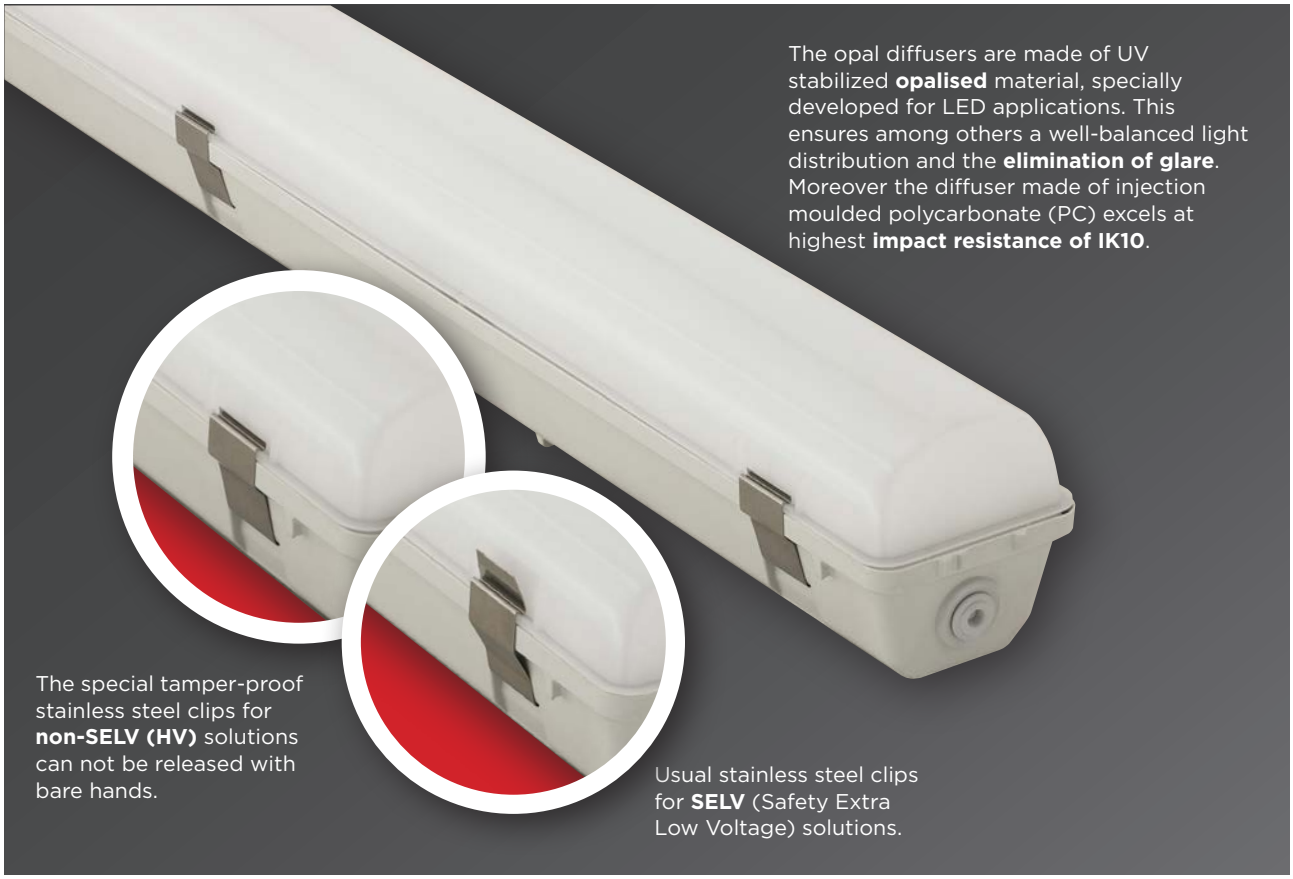
IP65

Option:

IP66
IP67

Main technical options

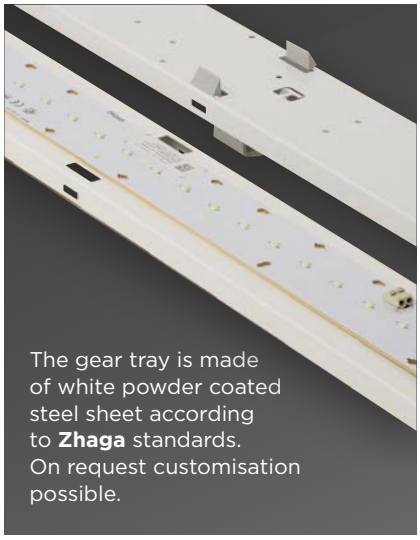
Our new opal diffuser has an **outstanding light transmissivity of more than 90%**. With this great light permeability, it is an **excellent choice for luminaires equipped with LED modules**.



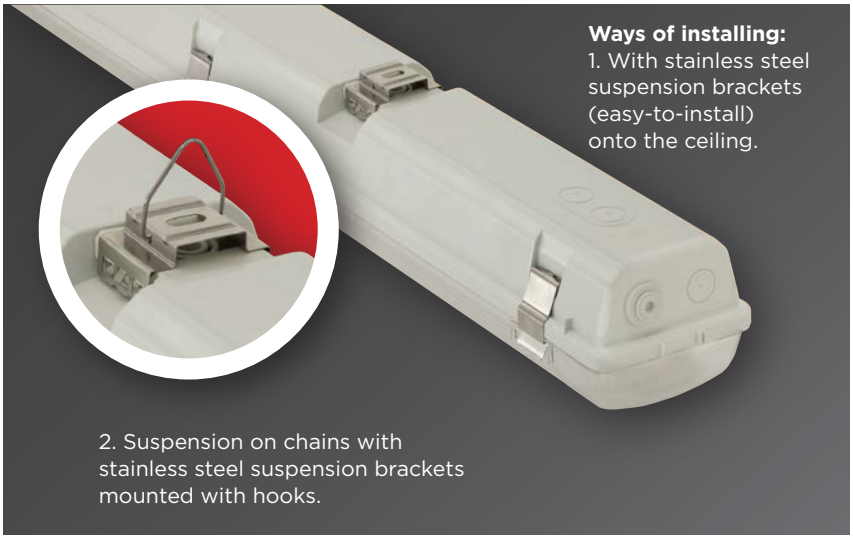
The opal diffusers are made of UV stabilized **opalised** material, specially developed for LED applications. This ensures among others a well-balanced light distribution and the **elimination of glare**. Moreover the diffuser made of injection moulded polycarbonate (PC) excels at highest **impact resistance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



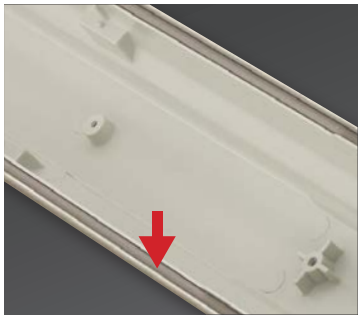
The gear tray is made of white powder coated steel sheet according to **Zhaga** standards. On request customisation possible.



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.

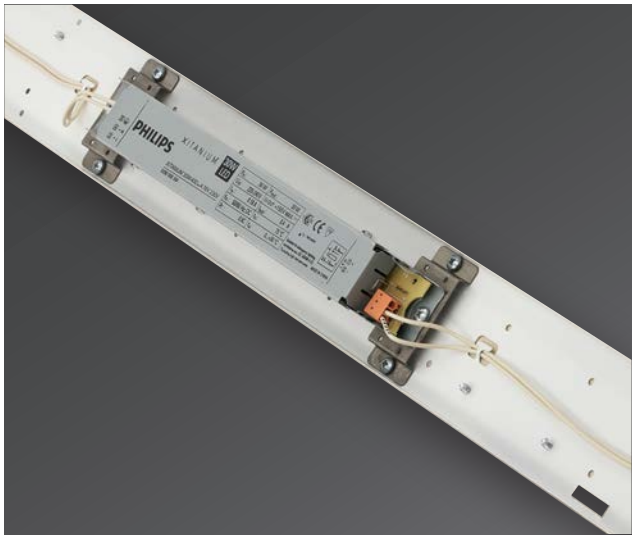
In order to ensure **maximum heat**, chemical and weather **resistance** even under tough conditions, the **gasket** between the diffuser and housing is made of **silicon-based** foam with enhanced resistance.



775-PC LED
with motion sensor

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 optimize 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)

Type	Power (W)	Warranty (Years)	Luminare total luminous flux - emitted (lm)	Luminous efficacy (lm/w)	Correlated colour temp (Kelvin)	CRI	Lifetime L70B50 (Ta=35°C)	A (mm)	B (mm)	Weight (kg)
Philips Fortimo LED Strip LV4										
775 1x1200mm	31	5 years	3800	120	4000	>80	>70.000 h	1277	700	2,08
775 1x1500mm	39	5 years	4700	120	4000	>80	>70.000 h	1577	1000	2,39
775 2x1500mm*	52	5 years	5900	114	4000	>80	>70.000 h	1577	1000	3,07
Philips Fortimo LED Srip HV5										
775 2x1200mm*	59	5 years	7700	130	4000	>80	>70.000 h	1277	700	2,68
775 2x1500mm*	73	5 years	9600	130	4000	>80	>70.000 h	1577	1000	3,04
Osram Basic Linear G2										
775 1x1200mm	24	5 years	2700	114	4000	>80	>60.000 h	1277	700	1,92
775 1x1500mm	33	5 years	4100	124	4000	>80	>60.000 h	1577	1000	2,43
775 1x1200mm	32	5 years	3900	122	4000	>80	>60.000 h	1277	700	1,92
775 1x1500mm	40	5 years	4900	122	4000	>80	>60.000 h	1577	1000	2,43
775 2x1200mm*	51	5 years	5500	107	4000	>80	>60.000 h	1277	700	2,76
775 2x1500mm*	59	5 years	6500	110	4000	>80	>60.000 h	1577	1000	3,12

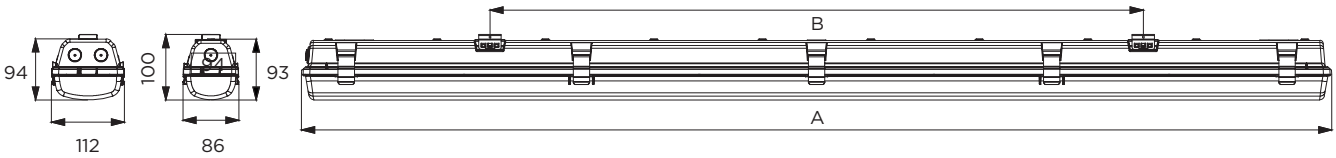
* The LED strips are placed in one line in a twin (wider) housing.

Other colour temperatures available on request

Further options:

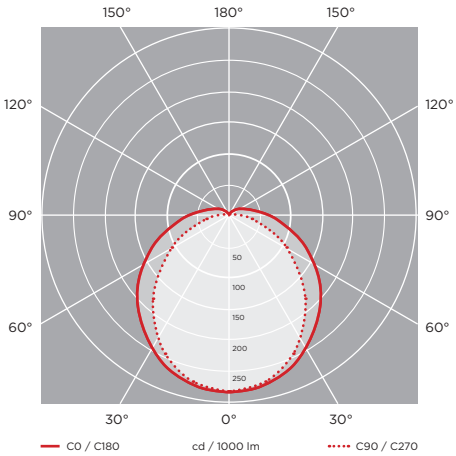
On request:

Schematic drawing with main dimensions

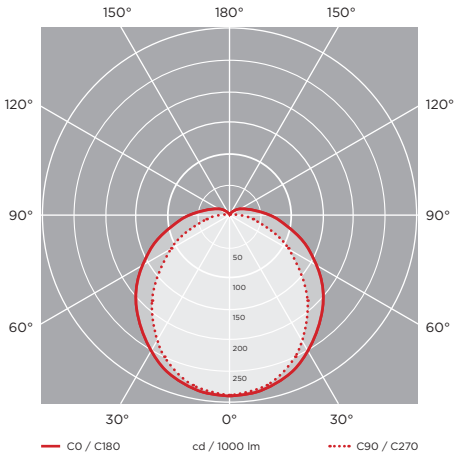


Photometric curves:

775-PC LED
1x1200mm 31W (Fortimo LV)



775-PC LED
2x1500mm 73W (Fortimo HV)



Luminaire customisation and the options of advanced controls are presented on page 7