

LED

775-PC LED

Industrial dust- and waterproof luminaires



CE



YOUR MAIN BENEFITS:

A professional luminaire for wide usage, that fulfills the strongest quality requirements. Especially for applications, where high impact resistance (IK-rate) is required. Available in IP 65 or IP66

775-PC LED



IP65



FIELD OF APPLICATION:

Due to the construction principles of gasket, closing system and diffuser our fixtures ensure a high grade of protection (IP 65 or IP66) against dust, contamination and water permeation. In accordance with their IP-grade they can be used widely to illuminate spaces with dusty, humid environment. Thanks to its **enhanced impact resistance**, 775-PC LED is especially suitable for applications, where **high IK-rate** 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)** (on request 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 of IK 10.

- The **diffuser** s available in the following versions:
Injection moulded polycarbonate (**PC**), **opal**, with extremely high light permeability and well-balanced light dispersing.
As option injection moulded acrylic (PMMA) diffuser in opal version is available.

The diffusers are designed with respect to their optical characteristics and 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 highly resistant clips made of polyamide or with stainless steel clips. Anti-vandal stainless steel clips available on request.

- **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.



Option:

IP66

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 **opalized** material, specially developed for LED applications. This ensures among others a well-balanced light distribution and the **elimination of glaring**. Moreover the diffuser made of injection moulded polycarbonate (PC) excels at highest **impact resistance of IK 10**.



775-PC LED

The special "antivandal" stainless steel clips for non-SELV (HV) solutions can be released with an additional tool only.

Fixing the diffuser to the body: With plastic clips

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.



775-PC LED

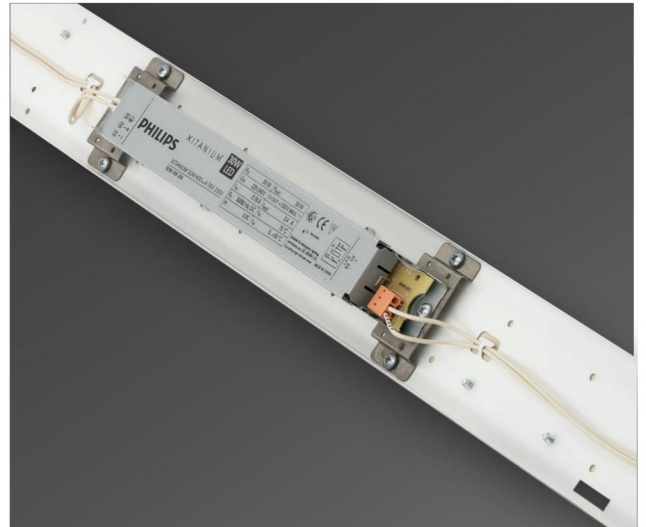
In order to ensure **maximum chemical and weather resistance, silicon-based gasket** with enhanced resistance is optionally available.



775-PC LED with motion sensor



Further options and accessories: 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).



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.

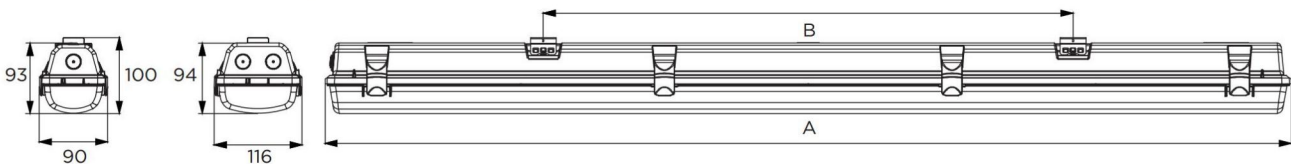


Technical Data

Type	Power (W)	LED luminous flux (lm)	luminaire total luminous flux (lm)	luminous efficacy (lm/w)	colour temp (Kelvin)	CRI	lifetime <small>L70B50 @ Ta=35°C</small>
Philips Fortimo LED Strip LV3							
775 1x600 mm	16	2200	1930	118	4000	>80	>50.000 h
775 1x1200mm	30	4400	4050	128	4000	>80	>50.000 h
775 1x1500mm	39	5500	4850	124	4000	>80	>50.000 h
775 2x1500mm*	50	6600	6100	123	4000	>80	>50.000 h
Philips Fortimo LED Line HV2							
775 2x1200mm*	54	8000	7400	137	4000	>80	>50.000 h
775 2x1500mm*	66,5	10000	9180	138	4000	>80	>50.000 h
Osram PrevaLED Slim 2							
775 1x600 mm	17,5	2100	1950	113	4000	>80	>50.000 h
775 1x1200mm	36	4200	3850	108	4000	>80	>50.000 h
775 1x1500mm	40	4800	4400	110	4000	>80	>50.000 h
Osram PrevaLED Value 2							
775 1x600 mm	22	2600	2400	108	4000	>80	50.000 h
775 1x1200mm	39	4800	4500	115	4000	>80	50.000 h
775 1x1500mm	45	5700	5250	116	4000	>80	50.000 h
775 2x1500mm*	52	6700	6200	120	4000	>80	50.000 h
Philips Certaflex HV2							
775 1x1200mm	28	3400	2880	104	4000	>80	>30.000 h
775 1x1500mm	37	4130	3800	104	4000	>80	>30.000 h

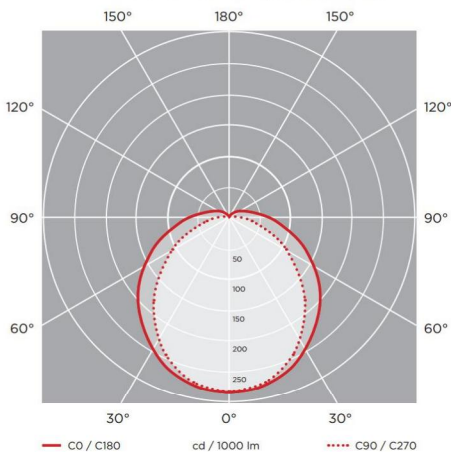
* The LED strips are placed in one line in a twin (wider) housing.

Schematic drawing with main dimensions

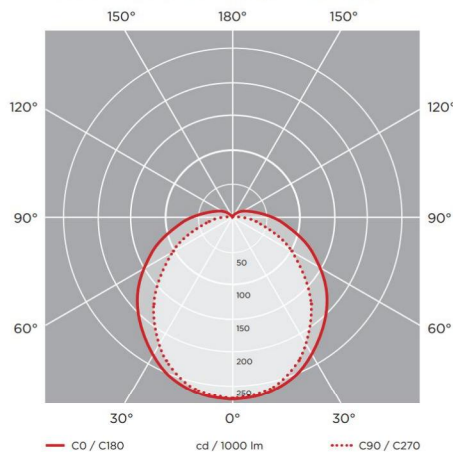


Photometric curves:

775-PC LED 39 W (PrevaLED)



775-PC LED 32 W (Fortimo)



Further options:

- emergency kit
- through wiring
- dimmable driver
- protection class II
- IP 66
- halogen-free wiring
- automatic terminal block