

#### **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-
- 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.

CE

**IP65** 











**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.





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.



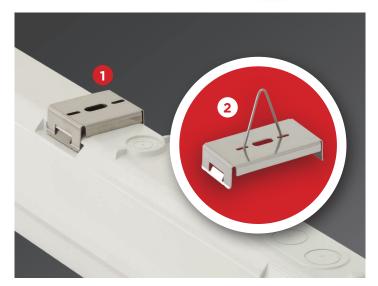




The gear tray is made of white powder coated steel sheet according to **Zhaga** standards. On request customisation possible.







### 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 Version with motion sensor





# **Technical data (extract)**

\* EPREL data base is available at https://eprel.ec.europa.eu/screen/product/lightsources/xxxxxxx (where the xxxxxxx have to be substituted by the reference number given in the last coloumn)

Products with 5 years warranty	Power (W)	Lum. total luminous flux emitted (Im)		Lum. efficacy (lm/W)		CCT (Kelvin)	CRI	Lifetime L70B50 (Ta=35°C)	Lifetime L80B10 (Ta=35°C)	A (mm)	B (mm)	Weight (kg)	EEI	Light source* (reference)
warranty		PMMA	PC	PMMA	PC			(1u=35 C)	(14-55-6)					(iciciciice)
Lumnium EU 130	with Os	ram dri	ver											
746 2ft (600mm)	24	3300	3000	137	125	4000	>80	>72 000 h	>50 000 h	669	415	0,9	D	1059419
746 4ft (1200mm)	25	3400	3200	136	130	4000	>80	>72 000 h	>50 000 h	1277	800	2,2	D	802364
746 5ft (1500mm)	30	4200	4000	140	133	4000	>80	>72 000 h	>50 000 h	1577	1100	2,5	D	734821
746 4ft (1200mm)	38	5100	4900	134	129	4000	>80	>72 000 h	>50 000 h	1277	800	2,2	D	734862
746 5ft (1500mm)	51	7000	6600	137	129	4000	>80	>72 000 h	>50 000 h	1577	1100	2,5	D	734813
Lumnium EU PRO 160 with Osram driver														
746 4ft (1200mm)	22	3300	3200	150	145	4000	>80	>72 000 h	>50 000 h	1277	800	2,2	С	803878
746 5ft (1500mm)	27	4200	4000	155	148	4000	>80	>72 000 h	>50 000 h	1577	1100	2,5	С	734800
746 4ft (1200mm)	31	4800	4600	155	148	4000	>80	>72 000 h	>50 000 h	1277	800	2,2	С	803933
746 5ft (1500mm)	41	6500	6200	158	151	4000	>80	>72 000 h	>50 000 h	1577	1100	2,5	С	734760
Lumnium EU PRO	140 HF	with P	hilips d	river										
746 4ft (2x1200mm)**	58	8000	7500	138	129	4000	>80	>72 000 h	>50 000 h	1277	800	2,65	D	734708
746 5ft (2x1500mm)**	73	10200	9600	140	131	4000	>80	>72 000 h	>50 000 h	1577	1100	3	D	734742
Osram Basic Line	ar G3													
746 4ft (1200mm)	23	2900	2800	124	119	4000	>80	>50 000 h	>50 000 h	1277	800	1,8	D	892186
746 5ft (1500mm)	28	3700	3500	132	126	4000	>80	>50 000 h	>50 000 h	1577	1100	2,2	D	892176 892186
746 4ft (1200mm)	28	3900	3700	140	134	4000	>80	>50 000 h	>45 000 h	1277	800	2	D	892188
746 5ft (1500mm)	35	4700	4500	136	130	4000	>80	>50 000 h	>50 000 h	1577	1100	2,2	D	892178 892188
746 4ft (2x1200mm)**	39	5300	5000	135	127	4000	>80	>50 000 h	>43 000 h	1277	800	2,5	D	892188
746 5ft (2x1500mm)**	47	6800	6400	144	136	4000	>80	>50 000 h	>43 000 h	1577	1100	2,7	D	892178 892188
Philips Fortimo LED Strip LV5														
746 2ft (600 mm)	15	2100	2000	138	131	4000	>80	>72 000 h	>50 000 h	669	415	1,7	С	778312
746 4ft (1200mm)	31	4500	4300	143	136	4000	>80	>72 000 h	>50 000 h	1277	800	2,2	С	778351
746 5ft (1500mm)	38	5400	5200	142	136	4000	>80	>72 000 h	>50 000 h	1577	1100	2,5	С	778365
746 5ft (2x1500mm)**	49	6900	6500	140	128	4000	>80	>72 000 h	>50 000 h	1577	1100	2,7	С	778365
Philips Fortimo LED Strip HV6														
746 4ft (2x1200mm)**	56	8300	7800	150	141	4000	>80	>100 000 h	>64 000 h	1277	800	2,65	С	893529
746 5ft (2x1500mm)**	70	10500	9900	150	141	4000	>80	>100 000 h	>64 000 h	1577	1100	3	С	893525 893529
746 4ft (2x1200mm)**	66	10000	9400	153	144	4000	>80	>100 000 h	>64 000 h	1277	800	2,65	С	893537
746 5ft (2x1500mm)**	83	12700	12000	153	145	4000	>80	>100 000 h	>64 000 h	1577	1100	3	С	893533 893537

<sup>\*\*</sup> The LED strips are placed in one line in a twin (wider) housing.

## Further options:



























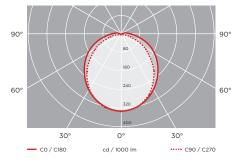


# Schematic drawing with main dimensions

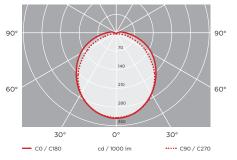


## **Photometric curves:**

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

