



Tufflite TFC IP66



The Tufflite TFC range is an IP66 rated luminaire, manufactured with a robust glass reinforced polyester base and an acrylic controller secured with stainless steel clips. This provides a polycarbonate free luminaire ideal for use in areas where corrosive chemicals may be present such as industrial plants, workshops, food factories and maintenance areas. It is supplied with fast fit mounting clips as standard for ease of installation and high frequency control gear, T5 and T8 lamp options and integral 3 hour maintained emergency variants. Through wiring kits are also available as separate accessories adding to the versatility of the range.

- IP66, dust tight and water jet proof for stay clean operation
- Vandal and heat resistant GRP body, acrylic diffuser and stainless steel clips
- Deep poured gasket seal for consistent and reliable sealing
- Prismatic diffuser for optimum light distribution and glare reduction
- Fast fit mounting clips avoid the need for drilling the housing on installation
- Microwave sensor option for greater lighting control
- IP65 rated PIR and photocell sensor options to maximise control and energy saving

Lamp and Control Gear Options

- 18W, 36W, 58W and 70W T8 fluorescent 
- 4000°K - G13 cap
- 28W, 35W (HE), 49W, 54W (HO) T5 fluorescent 
- 4000°K - G5 cap
- High frequency
- DALI options available

Materials

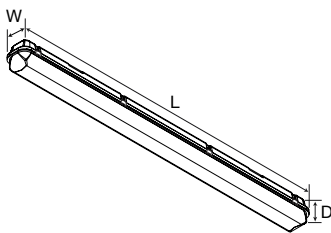
- Body - glass reinforced polyester (GRP), RAL 7035
- Gasket - polyurethane
- Diffuser - UV stabilised prismatic acrylic
- Clips - 501 stainless steel
- Geartray - sheet steel, white finish

Installation Notes

- Ceiling fixing brackets supplied, removing the need to seal fixing holes
- 20mm cable entry holes at each end, supplied complete with sealing plugs
- 3/4 screw terminal block
- Through wiring kits available
- Geartray hangs on body for ease of install, locates in position with tool free clips
- Simple to use stainless steel diffuser clips
- Supplied excluding lamps
- This luminaire is IP66 rated, this rating only applies when the luminaire is mounted observing the correct orientation and must not be positioned in direct sunlight.

In exterior applications it is recommended the luminaires are protected under a canopy or cover, the housing is not suitable for mounting with the base directly on a vertical surface in the horizontal orientation.

Dimensions



Lamp	L (mm)	W (mm)	D (mm)	Fixing Centres
1 x 18W	665	101	101	390
1 x 28/54/36W	1282	101	101	800
1 x 35/49/58W	1578	101	101	1100
1 x 70W	1839	101	101	1540
2 x 18W	665	145	101	390
2 x 28/54/36W	1282	145	101	800
2 x 35/49/58W	1578	145	101	1100
2 x 70W	1858	145	101	515 / 1545

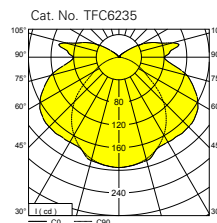
Options

- T5 and T8 single and twin lamp versions available
- Through wiring kits available for all lengths
- Fully integral emergency conversion, 3 hour duration
- Intellem self-test emergency versions available
- Suitable for use on defined escape routes
- Microwave sensor option ('IM' prefix)
- PIR and photocell option available ('D' prefix)
- DALI option available ('DD' suffix)

Specification

To specify state: Weatherproof luminaire, sealed to IP66, with GRP body and acrylic prismatic light controller, secured by hinged stainless steel latches and removable geartray retained by tool free clips, as Eaton's Tufflite TFC range, part no. _____

Photometric Data



LOR: 0.86
ULOR: 0.15
DLOR: 0.71

SHR nom: 1.50
SHR max: 1.73

Utilisation factors / TM5

Reflectances	Room Index											
	C	W	F	0.75	1.0	1.25	1.5	2.0	2.5	3.0	4.0	5.0
70 50 20	42	49	55	59	66	70	73	77	80			
70 30 20	35	42	48	53	59	64	68	73	76			
70 10 20	30	37	43	48	54	60	63	69	73			
50 50 20	39	45	51	55	61	64	67	71	74			
50 30 20	33	39	45	49	56	60	63	68	71			
50 10 20	29	35	41	45	51	56	59	64	68			
30 50 20	37	42	47	51	56	59	62	65	68			
30 30 20	32	37	42	46	52	56	59	63	65			
30 10 20	28	33	39	43	48	53	56	60	63			
0 0 0	25	29	34	38	43	47	49	53	56			
BZ-class	6	6	6	6	6	6	6	6	6			

See page 468 for design guide

Chemical Resistance

Chemical Agent	Body (Polyester)	Diffuser (Acrylic)
Acetic acid 10%	●	●
Acetone	○	X
Alcoholic beverages	●	●
Aluminium sulphate	●	●
Ammonia 5%	○	●
Aniline	○	○
Arsenic acid 20%	○	●
Benzene	X	X
Bencylic alcohol	X	X
Bromine	X	X
Calcium chloride	●	●
Calcium nitrate	●	●
Carbon tetrachloride	X	X
Carbonic acid	●	X
Caustic potash 5%	X	●
Cement	●	●
Hydrochloric acid 1-5%	○	●
Chlorine liquids (vapours)	X	X
Chloroform	X	X
Chromic acid	X	○
Citric acid 20%	●	●
Copper sulphate	●	●
Diesel-naphta oil	●	●
Ethyl alcohol 30%	●	●
Ethyl chloride	X	X
Ethyl ether	●	X
Food oils and fats	●	●
Formic acid 10%	○	●
Glycerine	●	●

Chemical Agent	Body (Polyester)	Diffuser (Acrylic)
Hexane	○	●
Iodine	●	X
Iron chloride	●	●
Isopropyl alcohol	●	○
Lubricating oil	●	●
Magnesium sulphate	●	●
Methanol	●	X
Mineral oils	●	●
Nitric acid 20%	X	○
Oxygen	●	●
Ozone	●	●
Perchloric acid 10%	X	●
Petrol	●	●
Phenol	○	X
Potassium bromide	●	●
Potassium nitrate	●	●
Potassium permanganate	●	●
Sea climate	●	●
Silicon oils	●	○
Soda bleach 15%	●	●
Sodium chloride	●	●
Sodium hydroxide 5%	●	●
Sodium sulphate	●	●
Sugar	●	●
Sulphur	●	●
Sulphuric acid 30%	X	●
Toluene	X	X
Trichloroethylene	X	X
Zinc sulphate	●	●

● Resistant ○ Relatively Resistant X Non-Resistant

Catalogue Numbers

Lamp Rating	Gear Option	Cat No	Weight (kg)	Emergency Cat No	Weight (kg)
TFC - GRP body and acrylic diffuser, for T5 lamps (not supplied)					
1 x 28W	High Frequency	TFC6128Z	2.7	EBTFC6128Z	4.1
2 x 28W	High Frequency	TFC6228Z	4.5	EBTFC6228Z	5.9
1 x 35W	High Frequency	TFC6135Z	3.6	EBTFC6135Z	5.0
2 x 35W	High Frequency	TFC6235Z	6.2	EBTFC6235Z	7.6
1 x 49W	High Frequency	TFC6149Z	3.6	EBTFC6149Z	5.0
2 x 49W	High Frequency	TFC6249Z	6.2	EBTFC6249Z	7.6
1 x 54W	High Frequency	TFC6154Z	2.7	EBTFC6154Z	4.1
2 x 54W	High Frequency	TFC6254Z	4.5	EBTFC6254Z	5.9

TFC - GRP body and acrylic diffuser, for T8 lamps (not supplied)					
1 x 18W	High Frequency	TFC6118Z	1.8	-	-
2 x 18W	High Frequency	TFC6218Z	2.1	-	-
1 x 36W	High Frequency	TFC6136Z	2.7	EBTFC6136Z	4.1
2 x 36W	High Frequency	TFC6236Z	4.5	EBTFC6236Z	5.9
1 x 58W	High Frequency	TFC6158Z	3.6	EBTFC6158Z	5.0
2 x 58W	High Frequency	TFC6258Z	6.2	EBTFC6258Z	7.6
1 x 70W	High Frequency	TFC6170Z	4.3	EBTFC6170Z	5.7
2 x 70W	High Frequency	TFC6270Z	7.9	EBTFC6270Z	9.3

For microwave sensor control prefix FO part number with IM, e.g. TFC6149Z becomes IMTFC6149Z

For microwave with corridor function prefix DD part number with IM eg TFC6149DD becomes IMTFC6149ZDD

For switching PIR sensor control prefix FO part number with D, e.g. TFC6149Z becomes DTFC6149Z

For PIR sensor with photocell function prefix RD part number with D, e.g. TFC6149RD becomes DTFC6149RD

For more information on the installation requirements and product specifications, please visit our website: <https://uk.eaton.com/content/gb/en/products/product-catalog/tufflite-tfc-ip66-ip66-impact-resistant-industrial-lighting.html>

Accessories	Cat No	Weight (kg)
Stainless steel clip kit, 12 x steel clips	TF6SCKIT12	0.1
Plastic clip kit, 12 x plastic clips	TF6PCKIT12	0.2
Rear mounting bracket (pair)	TF6RMBKT2	0.5
Through wire kit for 600mm, 18W	TF6TWKIT600	0.2
Through wire kit for 1200mm, 28/54/36W	TF6TWKIT1200	0.4
Through wire kit for 1500mm, 35/49/58W	TF6TWKIT1500	0.5
Through wire kit for 1800mm, 70W	TF6TWKIT1800	0.6