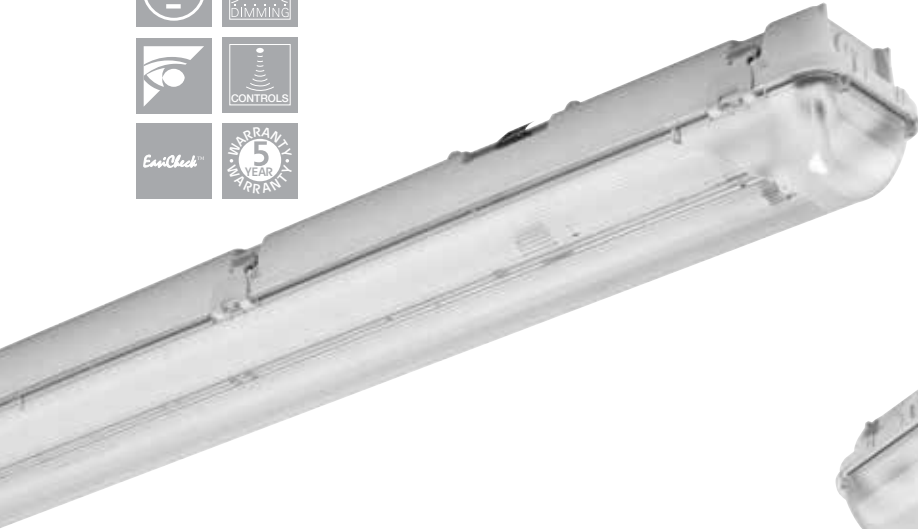


Tufflite TFW IP66





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The Tufflite TFW range is a versatile general purpose IP66 rated weatherproof luminaire. It is supplied with fast fit mounting clips as standard for ease of installation and available with high frequency control gear, T5 and T8 lamp options and integral emergency variants.

Stainless steel diffuser clips and through wiring kits are also available as separate accessories. The polycarbonate diffuser provides excellent impact resistance and married with the GRP (glass reinforced polymer) base and contemporary aesthetics, the TFW range provides a strong, fully enclosed luminaire designed for use in wet or dusty areas such as shower areas, plant rooms, under canopies, car parks, loading bays and sign lighting.

- IP66, dust tight and water jet proof for stay clean operation
- Vandal and heat resistant GRP (glass reinforced polymer) body, polycarbonate diffuser and polyamide 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 dimming options available

Materials

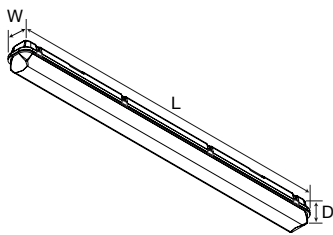
- Body - glass reinforced polyester (GRP) RAL7035
- Gasket - polyurethane
- Diffuser - UV stabilised, fire retardant prismatic polycarbonate
- Clips - fire retardant polyamide (501 stainless steel accessory kits available)
- Geartray - sheet steel, white finish

Installation Notes

- Ceiling fixing brackets supplied, removing the need to seal fixing holes
- 20mm cable entry knockouts 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 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

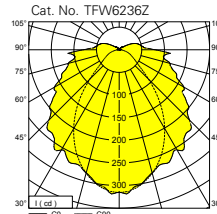
Options

- Stainless steel diffuser clips, available separately
- 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 polycarbonate prismatic light controller, secured by hinged latches and removable geartray retained by tool free clips, as Eaton's Tufflite TFW range, part no. _____

Photometric Data



LOR: 0.72
ULOR: 0.13
DLOR: 0.59
SHR nom: 1.5
SHR max: 1.66

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	35	41	46	49	54	58	61	64	66			
70 30 20	29	35	40	44	49	53	56	60	63			
70 10 20	25	30	36	40	45	49	53	57	60			
50 50 20	33	38	42	46	50	54	56	59	61			
50 30 20	28	33	38	41	46	50	52	56	59			
50 10 20	24	29	34	37	43	46	49	53	56			
30 50 20	31	35	39	42	47	49	52	54	56			
30 30 20	27	31	35	39	43	46	49	52	54			
30 10 20	23	28	32	35	40	44	46	50	52			
0 0 0	21	25	29	31	36	39	41	44	46			
BZ-class	6	6	6	6	6	6	6	6	6			

See page 468 for design guide

Chemical Resistance

Chemical Agent	Body (Polyester)	Diffuser (Polycarbonate)
Acetic acid 10%	●	●
Acetone	○	X
Alcoholic beverages	●	●
Aluminium sulphate	●	●
Ammonia 5%	○	X
Aniline	○	X
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	X
Cement	●	●
Hydrochloric acid 1-5%	○	●
Chlorine liquids (vapours)	X	X
Chloroform	X	X
Chromic acid	X	○
Citric acid 20%	●	●
Copper sulphate	●	●
Diesel-naphtha oil	●	○
Ethyl alcohol 30%	●	●
Ethyl chloride	X	X
Ethyl ether	●	X
Food oils and fats	●	X
Formic acid 10%	○	●
Glycerine	●	●

Chemical Agent	Body (Polyester)	Diffuser (Polycarbonate)
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	●	X
Phenol	○	X
Potassium bromide	●	●
Potassium nitrate	●	●
Potassium permanganate	●	●
Sea climate	●	●
Silicon oils	●	●
Soda bleach 15%	●	X
Sodium chloride	●	●
Sodium hydroxide 5%	●	X
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)
TFW - GRP body and polycarbonate diffuser, for T5 lamps (not supplied)					
1 x 28W	High Frequency	TFW6128Z	2.7	EBTFW6128Z	4.1
2 x 28W	High Frequency	TFW6228Z	4.5	EBTFW6228Z	5.9
1 x 35W	High Frequency	TFW6135Z	3.6	EBTFW6135Z	5.0
2 x 35W	High Frequency	TFW6235Z	6.2	EBTFW6235Z	7.6
1 x 49W	High Frequency	TFW6149Z	3.6	EBTFW6149Z	5.0
2 x 49W	High Frequency	TFW6249Z	6.2	EBTFW6249Z	7.6
1 x 54W	High Frequency	TFW6154Z	2.7	EBTFW6154Z	4.1
2 x 54W	High Frequency	TFW6254Z	4.5	EBTFW6254Z	5.9
TFW - GRP body and polycarbonate diffuser, for T8 lamps (not supplied)					
1 x 18W	High Frequency	TFW6118Z	1.8	-	-
2 x 18W	High Frequency	TFW6218Z	2.1	-	-
1 x 36W	High Frequency	TFW6136Z	2.7	EBTFW6136Z	4.1
2 x 36W	High Frequency	TFW6236Z	4.5	EBTFW6236Z	5.9
1 x 58W	High Frequency	TFW6158Z	3.6	EBTFW6158Z	5.0
2 x 58W	High Frequency	TFW6258Z	6.2	EBTFW6258Z	7.6
1 x 70W	High Frequency	TFW6170Z	4.3	EBTFW6170Z	5.7
2 x 70W	High Frequency	TFW6270Z	7.9	EBTFW6270Z	9.3

For microwave sensor control prefix HF part number with **IM**, e.g. TFW6149Z becomes **IMTFW6149Z**

For microwave with corridor function prefix DD part number with **IM** eg TFW6149DD becomes **IMTFW6149DD**

For switching PIR sensor control prefix HF part number with **D**, e.g. TFW6149Z becomes **DTFW6149Z**

For PIR sensor with photocell function prefix RD part number with **D**, e.g. TFW6149RD becomes **DTFW6149RD**

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-tfw-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	TF6TWWKIT600	0.2
Through wire kit for 1200mm, 28/54/36W	TF6TWWKIT1200	0.4
Through wire kit for 1500mm, 35/49/58W	TF6TWWKIT1500	0.5
Through wire kit for 1800mm, 70W	TF6TWWKIT1800	0.6