



The Tufflite TFC range is manufactured with a robust glass reinforced polyester base and an acrylic controller fastened with lockable 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. The latest version now utilises an injection moulded controller which allows for the material thickness to be increased in the most vulnerable areas improving the already durable construction of this high IP rated luminaire. Both luminaire ends are pre-drilled to 20mm diameter to aid installation and sealing plugs are supplied if not utilised. For ease of maintenance the gear cover is removable and is held in position with tool free clips. 3 hour emergency versions are available as standard.

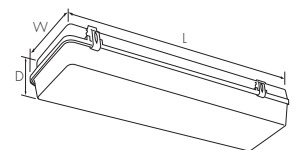
- IP65, dust tight and water jet proof
- Polycarbonate free corrosion proof construction
- GRP body with injection moulded acrylic diffuser
- Stainless steel clips with locking feature as standard
- Deep poured gasket seal for consistent and reliable seal
- Supplied less lamp

## Catalogue Numbers

Lamp Rating	Switch Start		High Frequency		DSI Digital Dim	
	Standard Cat. No.	Emergency Cat. No.	Standard Cat. No.	Emergency Cat. No.	Standard Cat. No.	Emergency Cat. No.
GRP body and Acrylic diffuser - for T8 lamps (not supplied)						
1 x 18W	TFC118S	-	TFC118Z	-	-	-
2 x 18W	TFC218S	-	TFC218Z	-	-	-
1 x 36W	TFC136S	EBTFC136S	TFC136Z	EBTFC136Z	TFC136S	EBTFC136S
2 x 36W	TFC236S	EBTFC236S	TFC236Z	EBTFC236Z	TFC236S	EBTFC236S
1 x 58W	TFC158S	EBTFC158S	TFC158Z	EBTFC158Z	TFC158S	EBTFC158S
2 x 58W	TFC258S	EBTFC258S	TFC258Z	EBTFC258Z	TFC258S	EBTFC258S
1 x 70W	TFC170S	EBTFC170S	TFC170Z	EBTFC170Z	-	-
2 x 70W	TFC270S	EBTFC270S	TFC270Z	EBTFC270Z	-	-
GRP body and Acrylic diffuser - for T5 lamps (not supplied)						
1 x 28W	-	-	TFC128Z	EBTFC128Z	TFC128RD	EBTFC128RD
2 x 28W	-	-	TFC228Z	EBTFC228Z	TFC228RD	EBTFC228RD
1 x 35W	-	-	TFC135Z	EBTFC135Z	TFC135RD	EBTFC135RD
2 x 35W	-	-	TFC235Z	EBTFC235Z	TFC235RD	EBTFC235RD
1 x 49W	-	-	TFC149Z	EBTFC149Z	TFC149RD	EBTFC149RD
2 x 49W	-	-	TFC249Z	EBTFC249Z	TFC249RD	EBTFC249RD
Suspension brackets						
Single luminaires	TFCSBS	Pair of fast fit suspension brackets - single lamp versions				
Twin luminaires	TFCSBT	Pair of fast fit suspension brackets - twin lamp versions				

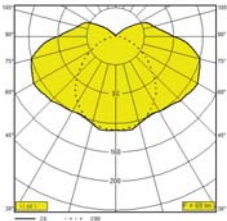
## Dimensions

Lamp Rating	L (mm)	W (mm)	D (mm)	Fixing centres	Switch Start (Kg)		High Frequency (Kg)		DSI Digital Dim (Kg)	
					Standard	Emergency	Standard	Emergency	Standard	Emergency
1 x 18W	666	100	108	230	1.9	-	1.8	-	-	-
1 x 28/36W	1276	100	108	836	2.8	4.2	2.7	4.1	3.3	4.7
1 x 35/49/58W	1576	100	108	1136	3.7	5.1	3.6	5.0	4.2	5.6
1 x 70W	1872	100	108	1390	4.4	5.9	4.3	5.0	4.2	5.6
2 x 18W	666	170	108	230	2.2	-	2.1	-	-	-
2 x 28/36W	1276	170	108	836	4.6	6.0	4.5	5.9	5.1	6.5
2 x 35/49/58W	1576	170	108	1136	6.3	7.7	6.2	7.6	6.8	8.2
2 x 70W	1872	170	108	1390	8.0	8.9	7.9	7.6	6.8	8.2



# Photometric Data & Fast Calculation Tables

Cat No. TFC158Z

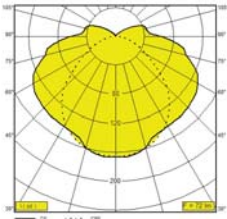


ULOR: 13.9%  
DLOR: 55.4%  
LOR: 69.3%  
SHR nom: 1.75:1  
SHR Max: 1.68:1

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	N/A	38	42	46	46	51	54	57	61	63
70	30	20	N/A	32	37	40	46	50	53	57	59	
70	10	20	N/A	28	32	36	41	46	49	53	57	
50	50	20	N/A	35	39	42	47	50	52	55	58	
50	30	20	N/A	30	34	37	42	46	49	52	55	
50	10	20	N/A	26	30	34	39	42	45	50	52	
30	50	20	N/A	32	36	39	43	46	48	51	53	
30	30	20	N/A	28	32	35	39	42	45	48	50	
30	10	20	N/A	25	28	32	36	40	42	46	48	
0	0	0	N/A	21	25	27	31	34	37	40	42	
BZ-class			1	6	6	6	6	6	6	6	6	

TFC158Z										
E	Lph	1 x T8 / 5200 lm								
IN	IN	Room Size (m <sup>2</sup> )								
IX	M	20	30	40	50	70	80	90	100	
200	2.40	4	5	6	7	9	10	10	11	
	2.60	4	5	6	7	9	10	11	12	
	2.80	4	5	6	7	9	10	11	12	
300	2.40	6	7	9	10	13	14	15	17	
	2.60	6	7	9	10	13	15	16	17	
	2.80	6	8	9	11	14	15	16	18	
500	2.40	9	12	14	16	21	23	25	27	
	2.60	9	12	15	17	22	24	26	28	
	2.80	10	13	15	18	22	25	27	29	
Maintenance Factor: 0.8 (ref: 70/50/20)										

Cat No. TFC258Z



ULOR: 10.1%  
DLOR: 61.7%  
LOR: 71.8%  
SHR Nom: 1.5:1  
SHR max: 1.68:1

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	50	55	59	61	65	67
70	30	20	29	35	40	44	50	54	57	61	64
70	10	20	25	30	36	39	45	50	53	58	61
50	50	20	33	38	43	46	51	54	57	60	62
50	30	20	28	33	38	41	47	50	53	57	60
50	10	20	24	29	34	38	43	47	50	54	57
30	50	20	31	36	40	43	47	50	53	56	58
30	30	20	27	31	36	39	44	47	50	53	56
30	10	20	23	28	32	36	41	44	47	51	54
0	0	0	21	25	29	32	36	40	42	46	48
BZ-class			6	6	6	6	6	6	6	6	6

TFC258Z										
E	Lph	2 x T8 / 10400 lm								
IN	IN	Room Size (m <sup>2</sup> )								
IX	M	20	30	40	50	70	80	90	100	
200	2.40	2	2	3	3	4	5	5	5	
	2.60	2	3	3	3	4	5	5	5	
	2.80	2	3	3	4	4	5	5	6	
300	2.40	3	3	4	5	6	7	7	8	
	2.60	3	4	4	5	6	7	7	8	
	2.80	3	4	4	5	6	7	8	9	
500	2.40	4	5	6	7	10	11	12	13	
	2.60	4	6	7	8	10	11	12	13	
	2.80	5	6	7	8	10	11	12	13	
Maintenance Factor: 0.8 (ref: 70/50/20)										

## Chemical resistance table

Chemical Agent	Tufflite TFW (Polycarbonate)	Tufflite TFC (Acrylic)
Diesel-naphtha oil	-	✓
Mineral oils	X	✓
Food oils and fats	-	✓
Acetone	X	X
Acetic acid 10%	✓	✓
Arsenic acid 20%	✓	✓
Carbonic acid	X	X
Citric acid 20%	✓	✓
Chlorhydric acid 1-5%	✓	✓
Chromic acid	-	-
Formic acid 30%	X	-
Nitric acid 20%	-	-
Perchloric acid 10%	✓	✓
Sulphuric acid 30%	✓	✓
Silicon oils	✓	-
Bencylic alcohol	X	X
Ethyl alcohol	✓	X
Isopropyl alcohol	X	-
Ammonia 5%	X	✓
Aniline	-	X
Sugar	-	-
Sulphur	✓	✓
Alcoholic beverages	✓	✓
Bencine	X	X
Benzyl	X	X
Bromo	-	X
Potassium bromide	✓	✓
Caustic potash	X	✓
Cement	✓	✓
Sea climate	✓	✓
Chlorine liquid (vapours)	X	X

Chemical Agent	Tufflite TFW (Polycarbonate)	Tufflite TFC (Acrylic)
Chloroform	X	X
Calcium chloride	✓	✓
Iron chloride	-	✓
Ethyl chloride	X	X
Sodium chloride	✓	✓
Sulphuric chloride	✓	✓
Ethyl ether	X	✓
Phenol	X	X
Petrol	✓	✓
Glycerine	-	✓
Hexane	-	✓
Carbohydrates	X	-
Sodium hydroxide 5%	X	✓
Soda bleach	X	✓
Mercury	✓	✓
Methanol	X	X
Calcium nitrate	✓	✓
Potassium nitrate	✓	✓
Oxygen	✓	✓
Ozone	✓	✓
Potassium permanganate	✓	✓
Oil	-	-
Aluminium sulphate	✓	✓
Zinc sulphate	✓	✓
Copper sulphate	✓	✓
Magnesium sulphate	✓	✓
Sodium msulphate	✓	✓
Carbon tetrachloride	X	X
Toluene	X	X
Trochloroethylene	X	X
Iodine	X	✓

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