

IN A NEW LIGHT
2018



REEFLITE

THE LIGHTING TECHNOLOGY PROFESSIONALS

***TECHNICAL PRODUCT
CATALOGUE 2018***

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GENERAL GUIDELINES TO LIGHTING LEVELS

INDUSTRIAL APPLICATIONS

AREAS - ACTIVITIES	TYPE OF WORK	RECOMMENDED LUX LEVEL	AREAS - ACTIVITIES	TYPE OF WORK	RECOMMENDED LUX LEVEL
General engineering	Rough work	160 lux	Outdoor areas	Mechanical loading	10 lux
General engineering	Medium work	400 lux	Outdoor areas	Manual loading	10 lux
General engineering	Fine work	800 lux	Outdoor areas	Service station forecourts	160 lux
General engineering	Very fine work	1600 lux	Warehousing	Inactive storage	20 lux
Inspection areas	Rough work	160 lux	Warehousing	Loading bays and large material storage	100 lux
Inspection areas	Medium work	320 lux	Warehousing		
Inspection areas	Sub assemblies	400 lux			Small material storage, packaging and despatch
Inspection areas	Fine work, electric & high precision mechanical	800 lux			
Offices	Entrances halls and reception areas	160 lux			
Offices	Conferences facilities, general offices, typing and filling	500 lux			
Offices	Computer and business machine operations	630 lux			
Offices	Drawing offices	800 lux			

GENERAL GUIDELINES TO LIGHTING LEVELS

SPORT FACILITIES

TYPE OF SPORTS	PRACTICE LEVEL	MINOR LEAGUE	MAJOR LEAGUE	PROV LEVEL
Bowls	20 lux	50 lux	100 lux	150 lux
Tennis	50 lux	100 lux	150 lux	250 lux
Football (Soccer)	50 lux	100 lux	250 lux	450 lux
Cricket outfield	50 lux	100 lux	250 lux	450 lux
Cricket pitch	100 lux	200 lux	400 lux	600 lux
Hockey	50 lux	100 lux	250 lux	350 lux
Swimming	50 lux	100 lux	150 lux	250 lux
Baseball	75 lux	75 lux	200 lux	500 lux
Basketball	75 lux	75 lux	200 lux	500 lux
Equestrian	100 lux	100 lux	200 lux	500 lux
Netball	75 lux	75 lux	200 lux	500 lux
Rugby	75 lux	75 lux	200 lux	500 lux
Volleyball	75 lux	75 lux	200 lux	500 lux
Athletics	50 lux	100 lux	200 lux	500 lux

ROADS

ROAD TYPE	LUX
Freeway	20 lux
Major arterial roads	10 lux
Arterial roads	10 lux
Minor arterial roads	5 lux
Minor suburban roads	2 lux

LUMINOUS FLUX OF DISCHARGE LAMPS

COMPACT FLUORESCENT

WATT	LUMEN OUTPUT
PL 9W	600
PL 13W	900
PL 18W	1200
PL 26W	1800
13W CFL	780
45W CFL	2900
85W CFL	5100
105W CFL	6000

FLUORESCENT LAMPS

WATT	LUMEN OUTPUT
18W	1 200
36W	2 850
58W	4 600

LUMINOUS FLUX OF DISCHARGE LAMPS



MERCURY VAPOUR

WATT	ELLIPTICAL (lm)
80W	3 800
125W	6 200
250W	12 700
400W	22 000
1000W	57 000

HIGH PRESSURE SODIUM

WATT	TUBULAR (lm)	ELLIPTICAL (lm)
70W	5 900	5 600
150W	14 500	14 000
250W	27 000	25 000
400W	48 000	47 000
1000W	130 000	128 000

MERCURY BLENDED

WATT	ELLIPTICAL (lm)
160W	3 100
250W	5 600
500W	14 000

METAL HALIDE

WATT	TUBULAR (lm)	ELLIPTICAL (lm)
70W	5 000	4 900
150W	11 500	10 500
250W	19 000	17 000
400W	35 000	33 000
1000W	80 000	
2000W - 8.8A(380V)	200 000	
2000W - 10.3A(380V)	187 000	

CORRECTED LINE CURRENT

HIGH PRESSURE SODIUM

WATT	STARTING AMPS	RUNNING AMPS	POWER FACTOR CORRECTION CAPACITOR
70W	0.72	0.45	10 μ F
150W	1.30	0.88	20 μ F
250W	2.10	1.42	30 μ F
400W	3.80	2.20	45 μ F
1000W	8.80	5.50	100 μ F

METAL HALIDE

WATT	STARTING AMPS	RUNNING AMPS	POWER FACTOR CORRECTION CAPACITOR
70W	0.72	0.45	10 μ F
100W	1.00	0.75	12 μ F
150W	1.70	0.82	20 μ F
250W	2.80	1.42	30 μ F
400W	3.80	2.20	45 μ F
1000W	9.60	5.20	90 μ F
2000W 8.8 (380V)	7.20	5.90	37 μ F
2000W 10.3 (380V)	8.20	6.80	60 μ F

CORRECTED LINE CURRENT

MERCURY VAPOUR

WATT	STARTING AMPS	RUNNING AMPS	POWER FACTOR CORRECTION CAPACITOR
80W	0.90	0.45	10 μ F
125W	1.35	0.68	10 μ F
250W	2.60	1.35	15 μ F
400W	4.20	2.10	20 μ F

FLUORESCENTS

WATT	STARTING AMPS	RUNNING AMPS	POWER FACTOR CORRECTION CAPACITOR
1 X 18W	0.17	0.13	4 μ F
2 x 18W	0.29	0.22	4 μ F
1 x 36W	0.29	0.22	4 μ F
2 x 36W	0.58	0.44	8 μ F
1 x 58W	0.42	0.32	6 μ F
2 x 58W	0.84	0.64	12 μ F

CORRECTED LINE CURRENT

COMPACT FLUORESCENT

WATT	CORRECTED LINE CURRENT	POWER FACTOR CORRECTION CAPACITOR
1 X PL 9	0.06 A	2 μ F
2 x PL 9	0.12 A	4 μ F
1 x PL 13	0.08 A	2 μ F
2 x PL 13	0.16 A	4 μ F
1 x PL 18	0.11 A	2 μ F
2 x PL 18	0.22 A	4 μ F
1 x PL 26	0.15 A	3 μ F
2 x PL 26	0.30 A	6 μ F
1 x 16W 2D	0.10 A	2 μ F
2 x 16W 2D	0.16A	3 μ F

FLOODLIGHT INSTALLATION GUIDE

FITTING	LAMP & WATTAGES	MOUNTING HEIGHT	SPREAD IN DEGREES	DISTANCE AT MOUNTING HEIGHT FOR 1 LUX	LUMEN OUTPUT OF LAMPS
RL045	45W	4M	90°	9M	2 900
	23W	3M	90°	7M	1 400
	18W	3M	90°	6M	1 150
	14W	3M	90°	5.5M	780
RL737	70(i) HPS	5M	90°	14M	5 600 (E)
	80 MV	5M	90°	12M	3 800 (E)
	125 MV	5M	90°	16M	6 200 (E)
	2 x 26W	4M	90°	10M	3 600 (E)
RL717	150 HPS	6M	70°	22M	14 000 (T)
	150 MH	6M	70°	20M	12 500 (E)
	150 HPS (wide beam)	6M	90°	20M	14 000 (T)
	150 MH (wide beam)	6M	90°	18M	12 500 (E)
RL303	250 MV	7M	90°	24M	12 700 (E)
	400 MV	8M	90°	32M	22 000 (E)
	85 CFL	5M	90°	14M	5 100 (4-U)
	105 CFL	5M	90°	16M	6 000 (4-U)

FLOODLIGHT INSTALLATION GUIDE

FITTING	LAMP & WATTAGES	MOUNTING HEIGHT	SPREAD IN DEGREES	DISTANCE AT MOUNTING HEIGHT FOR 1 LUX	LUMEN OUTPUT OF LAMPS
RL101	250 MH	8M	60°	50M	19 000 (T)
	400 MH	10M	60°	75M	35 000 (T)
	250 HPS	8M	60°	55M	27 000 (T)
	400 HPS	10M	60	90M	48 000 (T)
	250 MH (wide beam)	8M	90°	40M	19 000 (T)
	400 MH (wide beam)	10M	90°	60M	35 000 (T)
	250 HPS (wide beam)	8M	90°	50M	27 000 (T)
	400 HPS (wide beam)	10M	90°	68M	48 000 (T)
RL1000	1000 HPS	20M	60°	130M	130 000 (T)
	1000 MH	20M	60°	115M	80 000 (T)
	1000 HPS (wide beam)	20M	90°	100M	130 000 (T)
	1000 MH (wide beam)	20M	90°	90M	80 000 (T)
CF	150 MH	6M	90°	18M	12 500 (E)
	250 MH	7M	90°	25M	19 000 (T)
	400 MH	10M	90°	40M	35 000 (T)
	150 HPS	6M	90°	22M	14 000 (T)
	250 HPS	7M	90°	30M	27 000 (T)
	400 HPS	10M	90°	56M	48 000 (T)
	250 MV	7M	90°	20M	12 700 (E)
	400 MV	8M	90°	30M	22 000 (E)

BOX DIMENSIONS



FITTINGS	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)
RL045	332 mm	213 mm	170 mm
RL045 CFL/C with lamp	332 mm	213 mm	260 mm
RL1000	580 mm	450 mm	600mm
RL101	485 mm	295 mm	635mm
RL254 CG	228 mm	190 mm	279mm
RL254 ECONO	453 mm	450 mm	635mm
RL254 SUPER	545 mm	545 mm	633mm
RL303	490 mm	438 mm	270mm
RL303 CFL	437 mm	279 mm	317mm
RL223	260 mm	120 mm	268mm
RL606	353mm	178 mm	616mm

FITTINGS	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)
RL707	362 mm	330 mm	265mm
RL737	268 mm	249 mm	210mm
RL808	324 mm	324 mm	350mm
Round Bulkhead	245 mm	116 mm	245mm
Luna Bulkhead	282 mm	63 mm	282mm
UFO Bulkhead	282 mm	110 mm	282mm
Bollard Box	1225 mm	778 mm	300mm
CF	125 mm	440 mm	150mm
CF2000	640 mm	580 mm	330mm
CDB	360 mm	210 mm	240mm
CIB	460 mm	350 mm	250mm