

# MR16-800 Series

## High-Power LED MR16 Retrofit DownLight



### Features

- Compact LED Array and heatsink
- Powered by Bridgelux LEDs
- Extremely high lumen output
- Durable machined aluminium housing and heatsink
- Suitable Driver Supplied
- MR16 Retrofit
- Available in Cool White, Neutral White and Warm White

### Description

The MR16-800 is a brand new concept in white lighting. Designed to retrofit directly into a standard MR16 downlight fitting and supplied complete with its own drive unit, this has a comparable light output to a 50W dichroic downlight and yet uses as little as 20% of the electrical energy which not only saves you money in the long run but also helps to cut down on carbon emissions.

The unit is suitable for any indoor lighting project and is designed to easily fit into most MR16-style housings.

### LIGHTING PERFORMANCE

Model	Light Source	LED Qty	Lumen Output	Expected Lifetime
<b>Cool White</b>	Bridgelux Array	1	800 @ 700mA	50,000hrs +
<b>Neutral White</b>	Bridgelux Array	1	920 @ 1050mA	50,000hrs +
<b>Warm White</b>	Bridgelux Array	1	850 @ 1050mA	50,000hrs +

(Lumen output figures based on clear optic cover and heatsink temperature of 60°)

### EFFICACY (With Cover Options)

Model	Drive Current	Lumen Output		Lumens per Watt	
		Clear	Diffused	Clear	Diffused
<b>Cool White</b>	700mA	800 lm	720 lm	75 lm/W	68 lm/W
<b>Neutral White</b>	1050mA	920 lm	830 lm	61 lm/W	55 lm/W
<b>Warm White</b>	1050mA	850 lm	760 lm	57 lm/W	51 lm/W

### INPUT DATA

Model	Drive Current	Input Voltage	Power Supply	Input Connection
<b>Cool White</b>	700mA	230VAC	Constant Current	Flying Lead (2M)
<b>Neutral White</b>	1050mA	230VAC	Constant Current	Flying Lead (2M)
<b>Warm White</b>	1050mA	230VAC	Constant Current	Flying Lead (2M)

### OPERATING DETAILS

Model	Input Power	Ambient Temp. Range
<b>Cool White</b>	8.9W @ 700mA	-10 to +40 Degrees C
<b>Neutral White</b>	12.8W @ 1050mA	-10 to +40 Degrees C
<b>Warm White</b>	12.8W @ 1050mA	-10 to +40 Degrees C

### PHYSICAL DETAILS

Model	Mounting Type	Finish
<b>All Models</b>	Retrofit (MR16 Fitting Required)	Black Anodised

Unit may be used with either rear-mounting or front mounting MR16 fittings

### OPTICS

Model	Reflector Optics (half-divergence angle -FWHM)	Optic Cover
<b>All Models</b>	Spot (12°), Medium (16°), Wide (25°)	Clear, Diffused

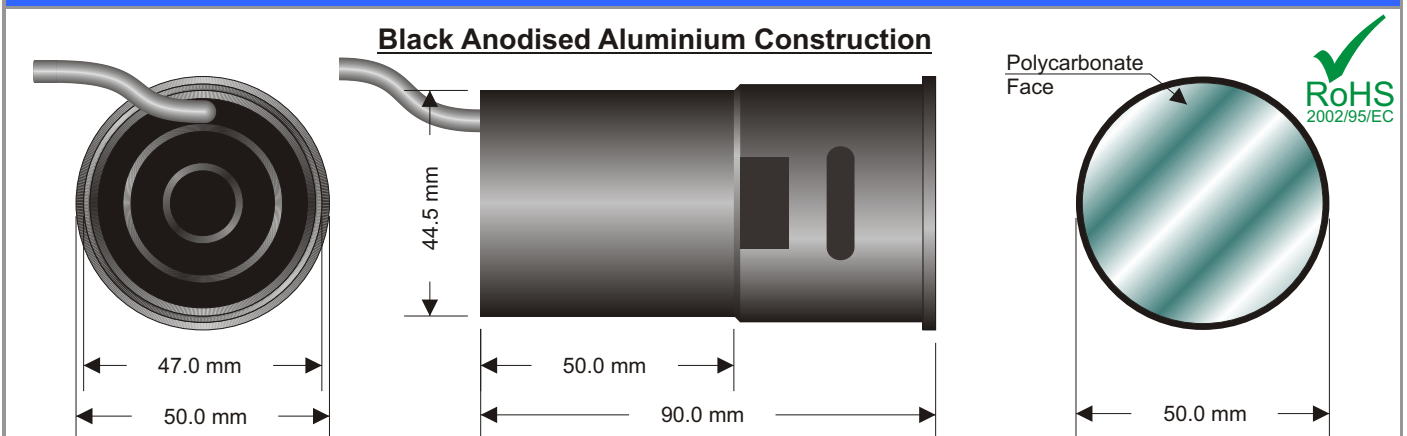
### COLOURS

Model	Single LED Colours
<b>Single-Colour</b>	Cool White (5600°K), Neutral White (4100°C), Warm White (3000°K)

### SUPPLIED DRIVER

Model
Drivers supplied will be either 700mA or 1050mA constant current (models may vary)

### PROFILE DIMENSIONS

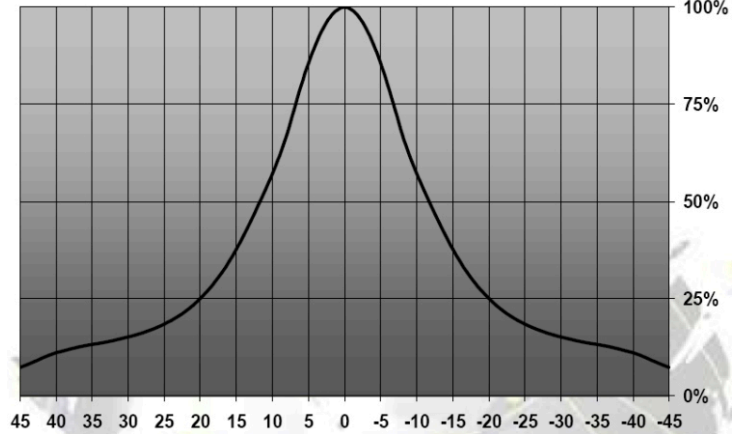


We reserve the right to make changes at any time in order to maintain the highest product quality.

**Spread Pattern - Spot Optic (24°)**



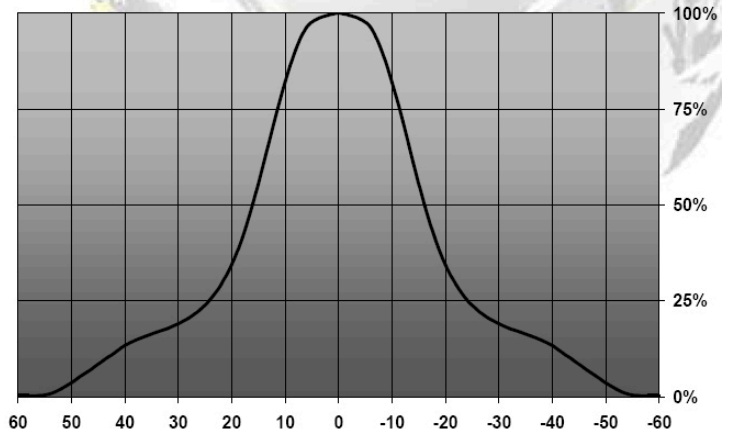
**Relative Intensity - Spot Optic (24°)**



**Spread Pattern - Medium Optic (32°)**



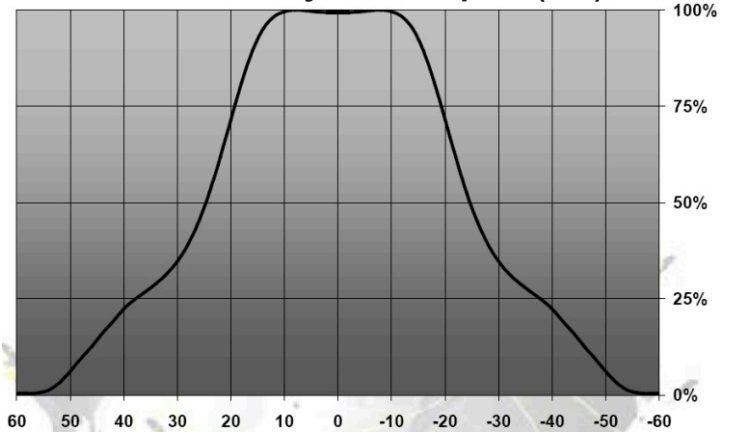
**Relative Intensity - Medium Optic (32°)**



**Spread Pattern - Wide Optic (50°)**



**Relative Intensity - Wide Optic (50°)**



**Photometric Lux Figures for Neutral White - 4100°K (1050mA Operating Current)**

DISTANCE	SPOT (24°)		MEDIUM (32°)		WIDE (50°)	
	Diameter	Illuminance	Diameter	Illuminance	Diameter	Illuminance
1 Metre	0.43 m	1460 lux	0.63 m	1320 lux	0.93 m	750 lux
2 Metres	0.85 m	370 lux	1.26 m	330 lux	1.87 m	190 lux
3 Metres	1.28 m	160 lux	1.89 m	150 lux	2.80 m	80 lux
4 Metres	1.70 m	90 lux	2.52 m	80 lux	3.73 m	50 lux

