

# 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 (cool white) and yet uses as little as 25% 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	760 @ 700mA	50,000hrs +
<b>Neutral White</b>	Bridgelux Array	1	610 @ 700mA	50,000hrs +
<b>Warm White</b>	Bridgelux Array	1	550 @ 700mA	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	760 lm	680 lm	72 lm/W	64 lm/W
<b>Neutral White</b>	700mA	610 lm	540 lm	63 lm/W	55 lm/W
<b>Warm White</b>	700mA	550 lm	490 lm	57 lm/W	50 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>	700mA	230VAC	Constant Current	Flying Lead (2M)
<b>Warm White</b>	700mA	230VAC	Constant Current	Flying Lead (2M)

### OPERATING DETAILS

Model	Approx. Power Consumption	Ambient Temp. Range
<b>Cool White</b>	10.5W @ 700mA	-10 to +40 Degrees C
<b>Neutral White</b>	9.7W @ 700mA	-10 to +40 Degrees C
<b>Warm White</b>	9.7W @ 700mA	-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

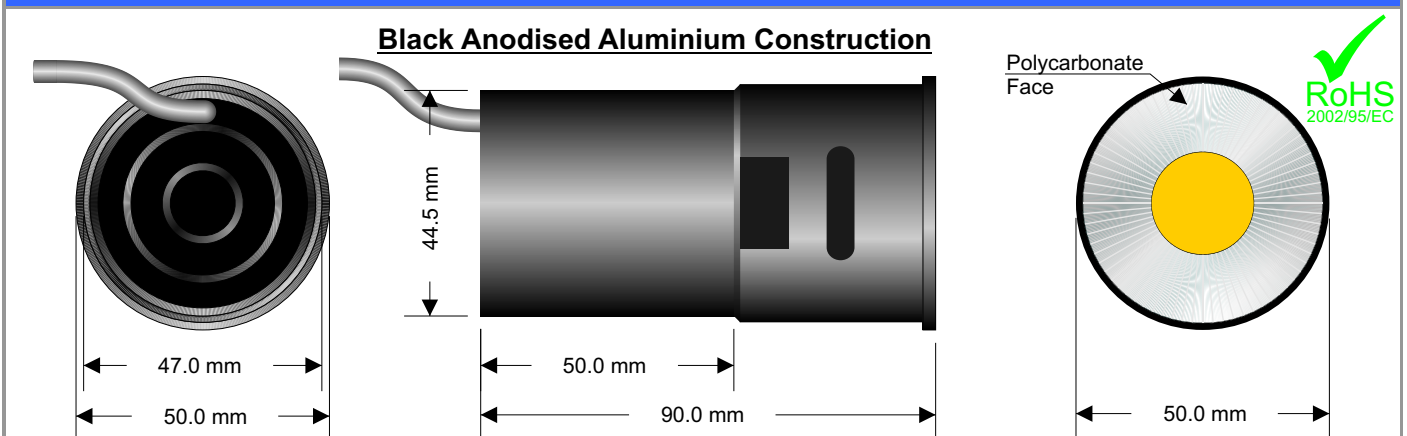
### COLOURS

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

### SUPPLIED DRIVER

Model
Driver supplied will be 700mA constant current (models may vary)

### PROFILE DIMENSIONS

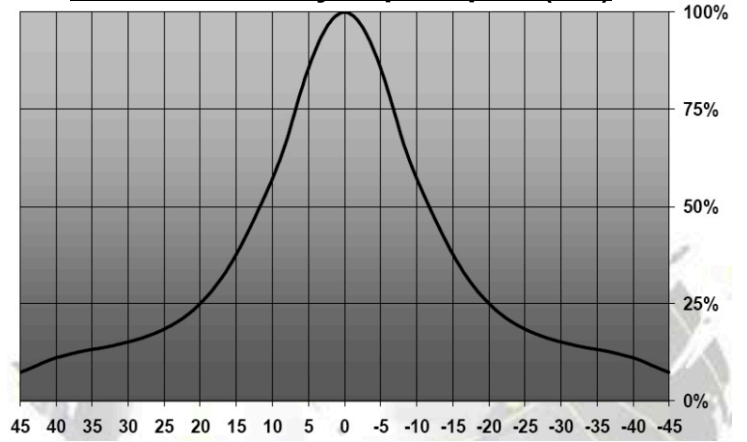


We reserve the right to make changes at any time in order to maintain the highest product quality.

**Spread Pattern - Spot Optic (24°)**



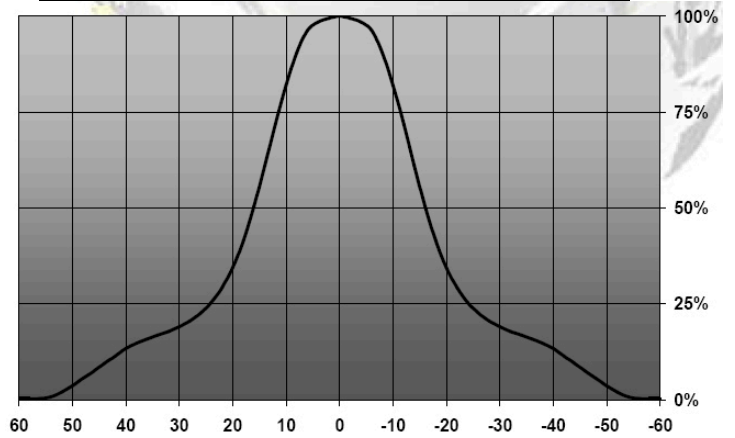
**Relative Intensity - Spot Optic (24°)**



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



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



**Spread Pattern - Wide Optic (50°)**



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

