

"Finally, the BriLux™ upgraded Master series is a family of high power LED based MR11 lamp that is all right. Right looks, right design, right form factor, excellent performance!"

BriLux™ M2 series miniature lamps are designed to fit into standard, low voltage, MR11 fixtures and sockets, and project a 35° well-defined spot light. It is well suited for tracks, rails, cables and pendants in interior architectural, retail, exhibit, display and residential applications.

The lamp features standard MR11 bi-pin connectors and sleek unify pure aluminum housing with anodized silver finish. The BriLux M2 MR11 series is available in 2W power rating. They are also available in two distinct white Kelvin temperatures: 3500K and 6500K. Other colors are also available.

The M2 series utilizes the Brilliance Technologies' innovative heat management technology specifically developed for the high power (up to 3W power LED) solid state lighting devices. It uniquely allows heat to dissipate properly; making the product thermally stable for long hours of operation and last much longer than conventional LED based MR11.

BriLux[™] M2 series MR11 is equipped with optical grade polycarbonate lens that allows highest light transmission at 35° beam angle.



Features

- Light source: 3W Cree XRE LED
- . Source life: More than 40,000 hours
- Low heat, no UV or IR light radiation
- Full range of colors
- Homogeneous and well defined illumination
- Optimized heat sink with the right looks and sleek design
- 2W version can achieve directional light output equal to 15W halogen MR11 lamp yet consume 80% less power
- Reverse polarity protection
- Safety Standard: C € pending
- 1 year limited warranty (see page 3)
- Works with 12V AC/DC lighting systems

Typical Applications

- Spot lighting
- Show Case Lighting
- · Display Case Accent
- Artwork Lighting
- Mood Lighting
- Amusement Park Accent









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PRODUCT SPECIFICATIONS

LIGHT SOURCE 1X3W Cree XRE power LED
OPTICS Optical grade PC collimator

LENS DIAMETER 20 mm

BEAM ANGLE 35° (Wide Spot)
MIN BEAM DISTANCE 15cm (6 inches)

RENDERING INDEX (Ra) > 70 (for cool white color)

TOTAL LENGTH 34 mm (excluding pins)

WEIGHT 24g

HOUSING Machined pure aluminum with anodized silver finish, 35 mm diameter

BASE GX4.0

DIMMABILITY Not Dimmerble

ENVIRONMENTAL SPECIFICATIONS

TEMPERATURE RANGE Ambient: -20°C to 40°C; Surface of Lamp: 40°C to 50°C

HUMIDITY RANGE 0 to 95% non-condensing humidity

ELECTRICAL SPECIFICATIONS

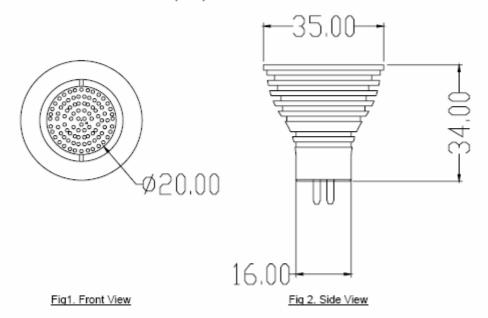
VOLTAGE REQUIREMENT 12V AC or 12V DC

POWER CONSUMPTION 2W

TRANSFORMER Low voltage magnectic or switching power supply to provide 12V AC or 12V DC

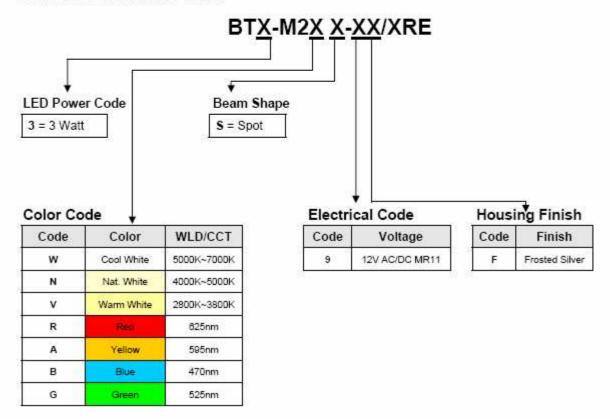
DO NOT CONNECT LAMP TO ELECTRONIC TRANSFORMER

PRODUCT DIMENSIONS (mm)





PRODUCT ORDERING CODE



Wide Spot Model (35° Beam Angle)

ORDER CODE	Color	Wavelength or CCT (nm/K)	Operating Voltage (V)	LED Power (W)	Typical Luminous Flux (lm)	Typical Center Illuminance @ 1 m (Lux)	BEAM ANGLE
BT3-M2WS-9F/XRE	Cool White	5000K~7000K		1X3W	100 lm	26	35° ±2°
BT3-M2NS-9F/XRE	Nat. White	4000K~5000K	12V AC/DC		90 lm	290	
BT3-M2VS-9F/XRE	Warm White	2800K~3800K			75 lm	260	
BT3-M2RS-9F/XRE	Red	625 nm			60 lm		
BT3-M2AS-9F/XRE	Yellow	595 nm			60 lm	9.	
BT3-M2BS-9F/XRE	Blue	470 nm			25 lm		
BT3-M2GS-9F/XRE	Green	530 nm			75 lm		

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Typical Electrical Characteristics at T_a=25°C (For 3W Model)

Parameter	Symbol	Min	Тур	Max	Unit
Input Voltage (AC)	Vac	10	12	14	v
Input Voltage (DC)	V _{oc}	9	12	14	V
LED Forward Current	le .	=	500	37.0	mA
Estimated Life ^[8]	35	27	40,000	40	Hours
Optimized Body Temperature (3W LED)	(T/2)		50	58	ೀ೦

Note: Lamp is optimized for 12V AC input voltage

Illumination Characteristics(T_a=25°C)

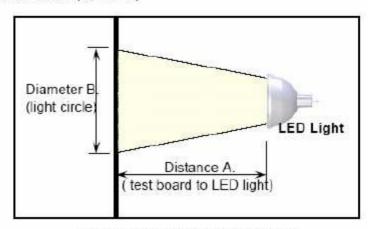


Fig 1. Set up for Illuminance Measurement

2W Wide Spot Model (35° Beam Angle)

Distance		3W Typical Illuminance Measured at Center of Beam (Lux)							
Dist A (cm)	Dia. B (cm)	Cool White	Nat. White	Warm White	Blue	Red	Yellov		
30	25								
50	40								
100	90		290	280					
150	140						26		
200	190								

Notes: Center beam lux is measured with Digital Lux Meter (Model TES-1334A)

Note: All LED MR11 lamps are burnt in for 72 hours before every order shipment



Optional Accessories

1) MR11 Connector without clip - Part No.:

Approval: VDE, UL

Rating: 125V 100W/250V 4A

Material: Porcelain

2) MR16 Connector with spring clip - Part No.:

Approval: VDE, UL

Rating: 125V 100W/250V 4A

Material: Porcelain





Optional Power Supply (Recommended for LED MR11 lamps)

1) 60W Ferro Magnetic Power Supply - Part No.: PS-60W-12

Specifications:

AC110V or AC220V 50/60 Hz Input:

Output Voltage: AC12V Output Current: 5A max Power: 60W max Weight: 1.2Kg

120X80X65 mm Casing Size:

Remarks: Other wattages is available, please inquire with our sales

associates

2) 60W Switching Power Supply - Part No.: SS-60W-12

Specifications:

Input: AC110V or AC220V 50/60 Hz

Output Voltage: DC12V Output Current: 5A max Power: 60W max Weight: 0.5Kg

Casing Size: 150X96X40 mm

Remarks: Other wattages is available, please inquire with our sales

associates

Installation Note:

3W MR11 - Maximum 15 lamps connection per power supply

