

The BriLux<sup>™</sup> V2-SHARP utilized Sharp's new M2-SHARP series power LED in the MR16 base lamp that is capable of producing up to 160 lumens of warm white light with only 4 Watt of power, offering the highest lumens per watt spotlight in the industry.

With our "Cool Beam" thermal solutions, we are able to maximize the light output of our 4 Watt SHARP series spotlight while maintaining a very low heat sink temperature of about 65°C. The SHARP series features one piece of 3.6 Watt SHARP LED.

- Light source: 4 Watt SHARP Power LED
- More than 50,000 hours
- 40° Beam Angle Frosted Lens
- · Low heat, no UV or IR light radiation
- Homogeneous and well defined illumination
- Highest Luminous Efficacy: 50 Lm/Watt for Cool White color
- Optimized heat sink with the right looks and sleek design
- 4 Watt version can achieve directional light output equal to 50 Watt halogen lamp yet consuming 80% less power
- Reverse polarity protection
- Safety Standard: CE, KEMA and RoHS
- 12V AC/DC

## **Typical Applications**

- Landscape Accent/Spot lighting
- Architectural Lighting
- Display Case Accent
- Artwork Lighting
- Mood Lighting
- Amusement Park Accent

















### PRODUCT SPECIFICATIONS

**LIGHT SOURCE** 1 x 4 Watt SHARP Power LED

OPTICS Optical grade Frosted Lens Polycarbonate collimator

LENS DIAMETER 33 mm

BEAM ANGLE 40° (Wide Spot)

RENDERING INDEX (Ra) > 60 (cool white)

> 70 (warm white)

TOTAL LENGTH 49 mm (including pins)

WEIGHT 40g

**HOUSING** Aluminum with Anodized Silver Finish, 5 cm (2") diameter

BASE GX5.3 pins

DIMMABILITY Not Dimmable

## **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**

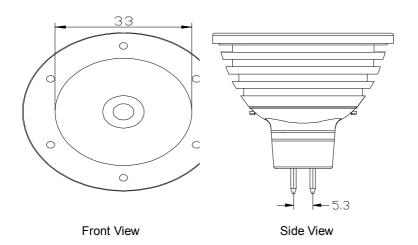
VOLTAGE REQUIREMENT 12V AC or 12V DC

**POWER CONSUMPTION** ≤ 4 Watt

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

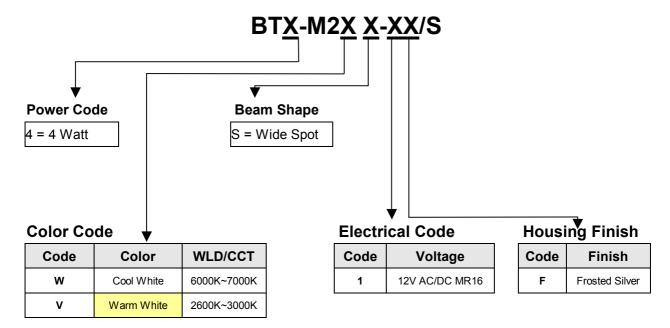
DO NOT CONNECT LAMP TO ELECTRONIC TRANSFORMER

## PRODUCT DIMENSIONS (mm)





## PRODUCT ORDERING CODE



## Wide Spot Model (40° Beam Angle)

ORDER CODE	Color	сст (к)	Operating Voltage (V)	LED Power (W)	Typical Luminous Flux (lm)	Typical Illuminance @ 1m (Lux)	BEAM ANGLE
BT3-M2WS-1F/S	Cool White	6000K~7000K	12V AC/DC	1X3,6W	180lm	500	40° ±2°
BT3-M2VS-1F/S	Warm White	2600K~3000K	12V AC/DC		180 lm	430	

# Typical Electrical Characteristics at T<sub>a</sub>=25°C (For 4 Watt Model)

Parameter	Symbol	Min	Тур	Max	Unit
Input Voltage (AC)	$V_{AC}$	10	12	14	V
Input Voltage (DC)	V <sub>DC</sub>	9	12	14	V
LED Forward Current	I <sub>F</sub>	_	330	_	mA
Estimated Life <sup>[6]</sup>		_	40,000	_	Hours
Optimized Body Temperature (4 Watt LED)	Т	_	57	60	°C

Note: Lamp is optimized for 12V DC input voltage



# Illumination Characteristics(T<sub>a</sub>=25°C)

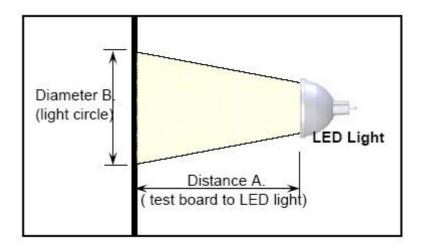


Fig 1. Set up for Illuminance Measurement

## 4 Watt Wide Spot Model (40° Beam Angle)

Distance		4 Watt Typical Illuminance Measured at Center of Beam (Lux)			
Dist A (cm)	Dia. B (cm)	Cool White	Warm White		
50	30		1800		
100	60	500	430		
150	90	180	180		
200	120		110		

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

Note: All LED MR16 lamps are burnt in for 72 hours before every order shipment

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Patents Pending Product
MR16M2-S-Rev. 1.0c
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