



Direct Drop-In Replacement of Halogen Lamps up to 50 Watts in MR16 Fixtures — GU5.3 BiPin Base

Consumes Less than 8 Watts – Up to 90% Power Savings — 2700K, 3000K or 6000K White — Medium Beam

FEATURES

- **Lamp Warranty:** 3 Years
- **Consumes Little Power:** Less than 8 Watts, Replaces Halogen Lamps up to 50 Watts
- **Dimmable** with Standard Lamp Dimmers – Compatible with Most LED Phase-Control Dimmers
- **Long Lifespan:** White LED Lumen Maintenance >70% at 50,000 Hours of Operation (*Rated average life based on engineering testing and probability analysis*)
- **Safety Assurance:** UL/cUL Listed (AE956F-09-6xx-385)
- **Clear Prismatic Lens:** UV-Stabilized PMMA
- **Sturdy Construction:** Polycarbonate Base, Aluminum Alloy Heatsink
- **Easy Installation:** Using Existing MR16 Fixtures with GU5.3 2-Pin Base
- **Highest-Grade LEDs:** Uses Cree Premium Lighting-Class LEDs
- **High CRI** Enhances All Colors
- **Wide Operating Temp. Range:** ~-4°F to ~+104°F ~-20°C to ~+40°C

SPECIFICATIONS

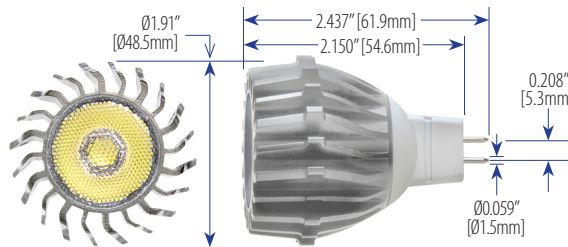
SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

PART NUMBER	MR16-6W-XxW-003M
Input Voltage	12V AC/DC [Tested @ 12VAC]
Ambient Humidity	90%
Ambient Operating Temperature Range	~-4°F to ~+104°F ~-20°C to ~+40°C
Lens	UV-Stabilized PMMA / Clear Prismatic
Heatsink	Aluminum Alloy / Silver Color
Base Type	GU5.3 BiPin
Dimensions	L 2.44" x D Ø1.91" x (L 62mm x D Ø48mm)
Weight	0.1375 lbs / 2.2 oz / 62.4g



BENEFITS

- **Major Energy Cost Savings:** Over 90% Compared to Halogens
- **Solid-State:** High-Shock & High-Vibration Resistant
- **Eco-Friendly:** No Lead, No Mercury Content
- **No Hazardous Emissions:** No UV or IR Radiation; No RF Interference
- **Constant Light Output:** Even Lighting, Non-Halation
- **Low Maintenance:** Lowers Costs by Reducing Re-lamp Frequency
- **Cool Operation:** Doesn't Get Hot to the Touch



APPLICATIONS

- Track Lighting
- Spot and Display Lighting
- Architectural Lighting
- Cabinet / Kiosk Lighting
- Art Gallery and Museum Spot Lighting

Ideal for Use with Alternate or Renewable Energy Resources – Solar & Wind Power

White LED technology is patent protected in the United States. LEDtronics white LED products are covered under these patents.

CAUTION:

Recommended for use with 50-60Hz AC magnetic transformers or regulated DC power supplies/drivers only. Not recommended for use with high-frequency electronic AC transformers, as this usage will either create non-functional lighting, or if functionality occurs initially, then internal MR16 LED bulb damage may result in premature product failures. Use of high-frequency transformers will void the warranty.

This lamp is intended for use in open luminaires (fixtures) ONLY.

PART NUMBER	INPUT VOLTAGE	ENERGY USED	INPUT CURRENT	POWER FACTOR	EFFICACY	TOTAL LUMENS	MAXIMUM CANDELA	CRI	COLOR TEMPERATURE	EMITTED COLOR	VIEWING ANGLE *
(Tested @ 12VAC) HALOGEN WHITE (*Full Beam Width @ 50% Intensity)											
MR16-6W-XHW-003M	12V AC/DC	7.4 Watts	0.785 A	0.79	44 lm/W	328 lm	949 cd	80	2700K~2900K	Halogen White	28°
WARM WHITE											
MR16-6W-XIW-003M	12V AC/DC	7.3 Watts	0.755 A	0.80	57 lm/W	419 lm	1106 cd	80	2800K~3300K	Warm White	30°
PURE WHITE											
MR16-6W-XPW-003M	12V AC/DC	7.5 Watts	0.779 A	0.80	66 lm/W	497 lm	1514 cd	75	5000K~6000K	Pure White	30°

MR16-Style 7-Watt 12V AC/DC White LED Bi-pin Light Bulbs

MR16-6W-XHW-003M

Luminaire Photometric Report

Filename: MR16-6W-XHW-003M @12VAC

Manufacturer: LEDTRONICS

Luminaire: CLEAR PRISMATIC LENS, 12VAC, 7.4W

Luminaire Cat: MR16-6W-XHW-003M

Lamp: LUMEN RATING: 328.3Lms

Lamp Output: 1 lamp(s), rated lamp lumens: 328.3

Max Candela: 949.0 at Horizontal: 0, Vertical: 0

Luminous Opening: Point

Test: 3-19-12

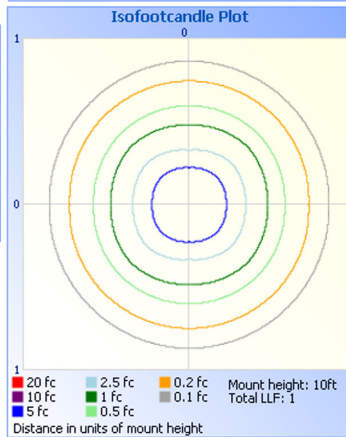
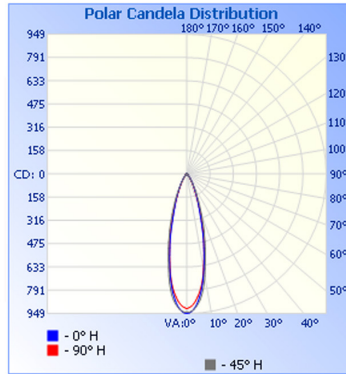
Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	273.3	83.2%	83.2%
0-40	303.2	92.3%	92.3%
0-60	320.7	97.7%	97.7%
60-90	7.6	2.3%	2.3%
0-90	328.3	100%	100%
90-180	0	0%	0%
0-180	328.3	100%	100%

Total Efficiency: 100%

Illuminance at a Distance		Beam Width	
Center Beam FC			
1.7R	341.64 fc	0.8ft	0.8ft
3.3R	85.41 fc	1.7ft	1.7ft
5.0R	37.96 fc	2.5ft	2.5ft
6.7R	21.35 fc	3.3ft	3.3ft
8.3R	13.67 fc	4.1ft	4.2ft
10.0R	9.49 fc	5.0ft	5.0ft

Vert. Spread: 27.9° Horiz. Spread: 28.2°



MR16-6W-XIW-003M

Luminaire Photometric Report

Filename: MR16-6W-XIW-003M @12VAC

Manufacturer: LEDTRONICS

Luminaire: CLEAR PRISMATIC LENS, 12VAC, 7.3W

Luminaire Cat: MR16-6W-XIW-003M

Lamp: LUMEN RATING: 418.6Lms

Lamp Output: 1 lamp(s), rated lamp lumens: 418.6

Max Candela: 1,106.0 at Horizontal: 45, Vertical: 0

Luminous Opening: Point

Test: 3-20-12

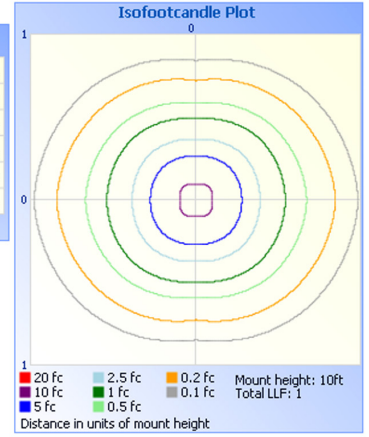
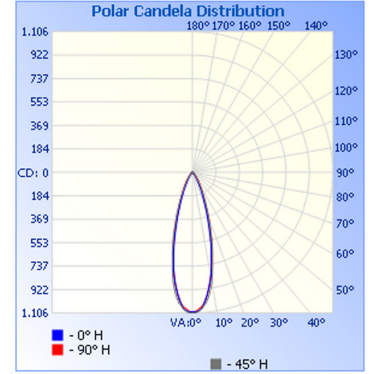
Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	346.0	82.7%	82.7%
0-40	386.3	92.3%	92.3%
0-60	410.0	97.9%	97.9%
60-90	8.6	2.1%	2.1%
0-90	418.6	100%	100%
90-180	0	0%	0%
0-180	418.6	100%	100%

Total Efficiency: 100%

Illuminance at a Distance		Beam Width	
Center Beam FC			
1.7R	395.28 fc	0.9ft	0.9ft
3.3R	98.82 fc	1.8ft	1.9ft
5.0R	43.92 fc	2.7ft	2.8ft
6.7R	24.71 fc	3.6ft	3.7ft
8.3R	15.81 fc	4.5ft	4.7ft
10.0R	10.98 fc	5.4ft	5.6ft

Vert. Spread: 30.0° Horiz. Spread: 31.2°



MR16-6W-XPW-003M

Luminaire Photometric Report

Filename: MR16-6W-XPW-003M @12VAC

Manufacturer: LEDTRONICS

Luminaire: CLEAR PRISMATIC LENS, 12VAC, 7.5W

Luminaire Cat: MR16-6W-XPW-003M

Lamp: LUMEN RATING: 496.8Lms

Lamp Output: 1 lamp(s), rated lamp lumens: 496.8

Max Candela: 1,514.0 at Horizontal: 90, Vertical: 0

Luminous Opening: Point

Test: 3-20-12

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	423.0	85.2%	85.2%
0-40	462.9	93.2%	93.2%
0-60	485.4	97.7%	97.7%
60-90	11.3	2.3%	2.3%
0-90	496.8	100%	100%
90-180	0	0%	0%
0-180	496.8	100%	100%

Total Efficiency: 100%

Illuminance at a Distance		Beam Width	
Center Beam FC			
1.7R	523.44 fc	0.8ft	0.9ft
3.3R	130.86 fc	1.6ft	1.8ft
5.0R	58.16 fc	2.4ft	2.7ft
6.7R	32.72 fc	3.2ft	3.6ft
8.3R	20.94 fc	4.1ft	4.5ft
10.0R	14.54 fc	4.9ft	5.4ft

Vert. Spread: 27.4° Horiz. Spread: 30.4°

