

# SORAA® PREMIUM 2 LED MR16 3000K 12VAC 10W



Narrow Flood and Flood



Narrow Spot and Spot



RoHS

<b>OUTPUT</b>	1880-8250 CBCP, 510-600 Lumens
<b>BEAM</b>	10°, 20°, 25°, 36°
<b>COLOR</b>	CCT: 2700K CRI>80, R9>0
<b>APPLICATION</b>	Halogen replacement for non-enclosed indoor applications

## PERFORMANCE

CBCP matches standard halogen lamps  
Single light source  
Single crisp shadow  
Dimmable to 20%  
Power Factor: 0.93  
12V (10.8 min, 13.2 max)

## COLOR

CCT: 3000K  
CRI>80, R9>0  
White point accuracy within 3 SDCM  
Rich saturated color rendering  
Excellent color stability

## OPTIMIZED FORM

ANSI standard MR16 form factor:  
1.96" (50mm) W x 1.86" (47.6mm) H  
Compatible with standard fixtures  
Weight: 40g  
Proprietary fanless aluminum design  
provides superior thermal dissipation

## HIGHLY COMPATIBLE

Works with magnetic and electronic  
transformers and dimmers (see complete  
list at [www.soraa.com](http://www.soraa.com))  
UL and CUL listed for use with 12VAC NEC  
Class 1 and Class 2 systems

## SPECIFICATIONS\*

Reference Number	Product Code	Beam	Field	CBCP	Watts	Halogen Equivalent	Lumens
MR16-65-B01-12-830-10	00265	10°	20°	8250	10	65w	510 (52.6 lm/W)
MR16-65-B01-12-830-20	00232	20°	38°	3800	11.5	65w	600 (52.6 lm/W)
MR16-75-B01-12-830-25	00241	25°	42°	3440	11.5	75w	600 (52.6 lm/W)
MR16-75-B01-12-830-36	00249	36°	60°	1880	11.5	75w	600 (52.6 lm/W)

\*at stable warm operating conditions (25°C ambient)

## LONG LIFE, LOW MAINTENANCE

Lifetime of 25,000 hours, L70  
Three year warranty

## ENERGY EFFICIENT

Saves over 75-80% of energy compared to  
standard halogen lamps  
Typical payback of one year or less

## INTENDED USE AND APPLICATIONS

LED retrofit lamp to replace 12VAC  
halogen MR16 lamps in recessed  
downlights, track lighting, and other  
indoor applications. Not for use with glass  
lenses or fully sealed fixtures

Not for use in non-ventilated fixtures less  
than 3"L x 3"W x 3"H.

Not for use in Emergency Fixtures or Exit  
Signs

Operating Temperature: Minimum -40°C  
(ambient); Typical: 80-110°C (base);  
Maximum: 125°C (base)

Soraa lamps are designed to safely shut  
down due to conditions in any thermal  
environment not conducive to minimum  
airflow or proper ventilation

## CERTIFICATIONS

UL, CUL for 12VAC NEC Class 1 and Class  
2 systems, FCC 47 CFR Part 15 and Part 18  
(EMI), RoHS, CE, C-tick

12VAC



3000K

CRI  
>80



DIM



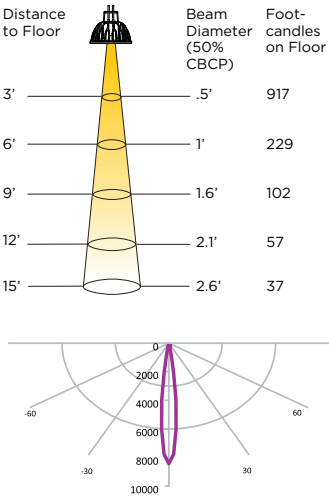
Form Factor | Base | Voltage | CRI | CCT | Beam  
MR16 - 75 - B01 - 12 - 830 - 25

The diagram at left shows how to read the  
different components of the reference num-  
ber. Base type B01 refers to the GU 5.3 base.

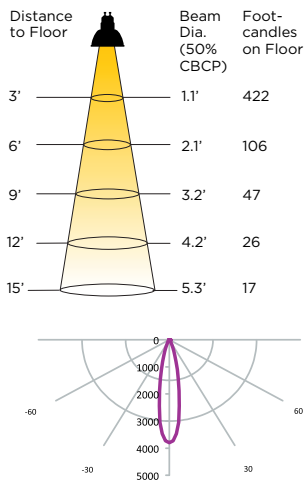
SORAA PREMIUM 2 MR16 LED 3000K 12VAC

PHOTOMETRICS

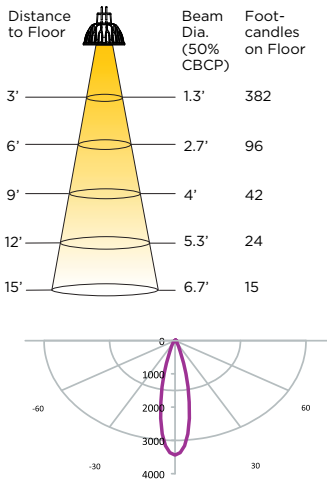
Narrow Spot - 10°



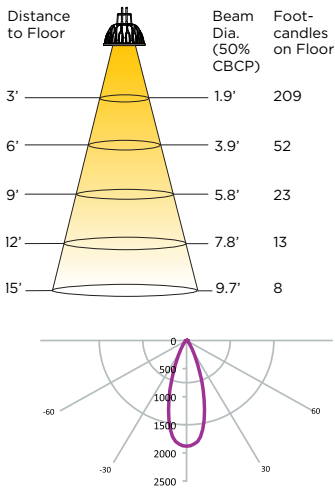
Narrow Flood 20°



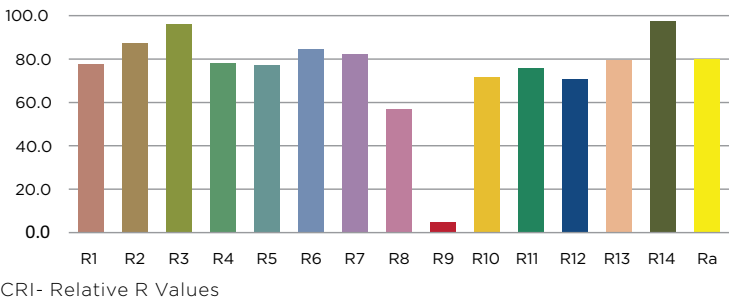
Narrow Flood -25°



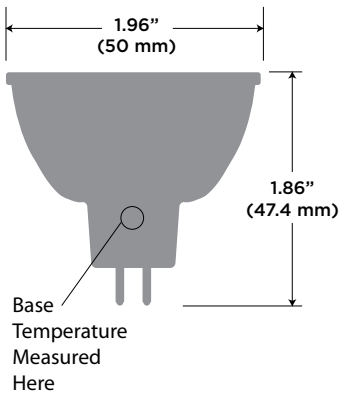
Flood -36° Degree



COLOR RENDERING



DIMENSIONS



SAFETY NOTE ON HEAT

Soraa's unique LED technology allows its lamps to operate effectively and efficiently at higher temperatures than other LED lamps, resulting in more light output per diode. Although Soraa's lamps operate at cooler temperatures than halogen lamps, it is recommended that gloves be worn when handling bare lamps that have been energized.

TRANSFORMER/DIMMER COMPATIBILITY

Dimmable to 20% or lower, depending on dimmer. Complete transformer and dimmer compatibility information at [www.soraa.com](http://www.soraa.com).

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