

# SORAA® PREMIUM 2

## LED MR16 2700K 12VAC 10-12W



Narrow Flood and Flood



Narrow Spot



**RoHS**

<b>OUTPUT</b>	1550-7500 CBCP, 490-590 Lumens
<b>BEAM</b>	10°, 20°, 25°, 36°
<b>COLOR</b>	CCT: 2700K CRI>80, R9>0
<b>APPLICATION</b>	Halogen replacement for 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: 2700K  
 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-B01-12-827-10	00267	10°	20°	7500	10	65W	490 (49 lm/W)
MR16-75-B01-12-827-20	00235	20°	38°	3700	11.5	75W	590 (51.5 lm/W)
MR16-75-B01-12-827-25	00243	25°	42°	3360	11.5	75W	590 (51.5 lm/W)
MR16-75-B01-12-827-36	00251	36°	60°	1550	11.5	75W	590 (51.5 lm/W)

\* at stable operating conditions in well ventilated fixtures (25°C ambient) \*\*Energy Star Minimum

### LONG LIFE, LOW MAINTENANCE

Life of 35,000 hours  
 Three year warranty

### ENERGY EFFICIENT

Saves over 85% 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 recommended for use in fixtures  
 with glass lenses, fully sealed fixtures, or  
 unventilated 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: 120°C (base)  
 Soraa lamps are designed to safely turn  
 down 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

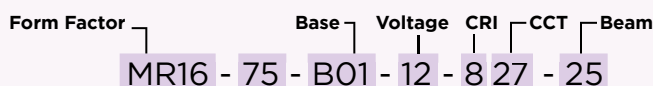


2700K

CRI  
>80



DIM

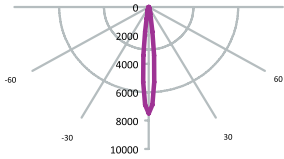
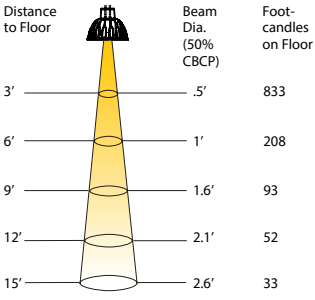


The diagram at left shows how to read the  
 different components of the reference num-  
 ber. Base type B01 refers to the GU 5.3 base.

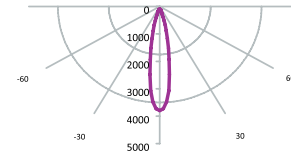
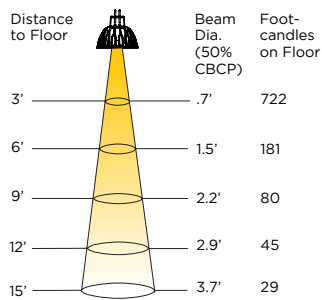
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## PHOTOMETRICS

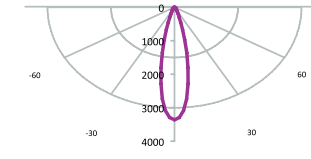
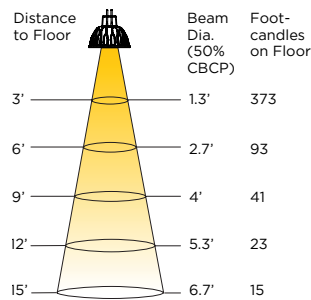
### Narrow Spot - 10°



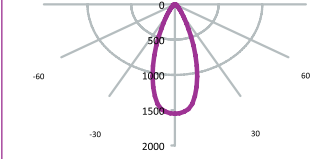
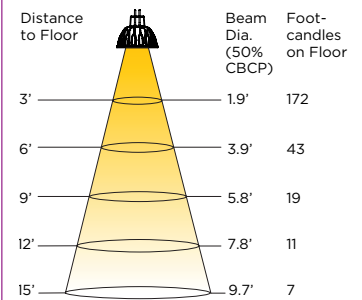
### Narrow Flood- 20°



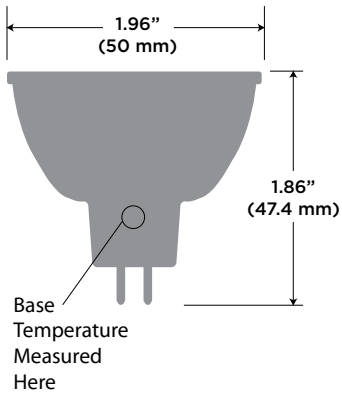
### Narrow Flood -25°



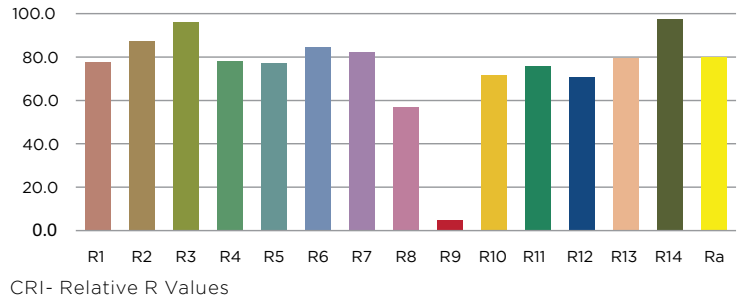
### Flood -36°



## DIMENSIONS



## COLOR RENDERING



## 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 available at [www.soraa.com](http://www.soraa.com).