

# SORAA® VIVID 2 LED MR16 4000K 12V 8-10W



Narrow Spot



Narrow Flood, Flood, Wide Flood



RoHS

<b>OUTPUT</b>	1140-5040 CBCP, 340-430 Lumens
<b>BEAM</b>	10°, 25°, 36°
<b>COLOR</b>	CCT: 4000K CRI 95, R9 >90
<b>APPLICATION</b>	Halogen replacement for enclosed indoor and outdoor applications

## PERFORMANCE

CBCP matches standard halogen lamps  
Single light source  
Single crisp shadow  
Dimmable to 20%  
Power Factor: 0.90  
12V (10.8 min, 13.2max)

## COLOR AND WHITENESS

CCT: 4000K  
CRI 95, R9 >90  
White point accuracy within 4 step SDCM  
Rich saturated color rendering  
Excellent color stability

## OPTIMIZED FORM

ANSI Standard MR16 form factor:  
1.96" (50mm) W x 1.86" (47.4 mm) H  
Works in all 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 12VNEC Class 1 and Class 2 systems

## SPECIFICATIONS\*

Reference Number	Product Code	Beam	Field	CBCP	Watts	Halogen Equivalent**	Lumens	Lm/W
MR16-40-B01-12-940-10	00733	10°	20°	5040	8.0	40W	340	43
MR16-50-B01-12-940-25	00735	25°	42°	2400	9.8	50W	430	44
MR16-50-B01-12-940-36	00737	36°	60°	1140	9.8	50W	430	44

\*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

80% more energy compared to standard halogen lamps  
Typical payback of one year or less

## INTENDED USE AND APPLICATIONS

LED retrofit lamp to replace 12V halogen MR16 lamps in recessed downlights, track lighting, and other indoor and outdoor applications. Suitable for enclosed fixtures  
North America: This product can be incorporated into emergency lighting fixtures qualified UL 924.

Outside of North America: This product can be incorporated into emergency lighting fixtures qualified to IEC/EN 60598-2-22.

Operating Temperature - Minimum: -40°C (ambient), Typical: 80-110°C (base), Maximum: 120°C (base)

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

## CERTIFICATIONS

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

12VAC



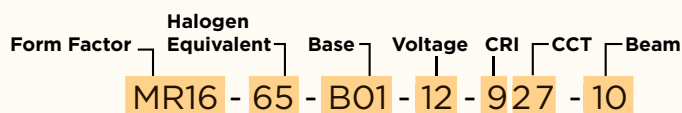
4000K

CRI >95

R9 >90



DIM

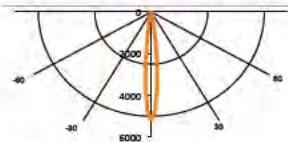


The diagram at left shows how to read the different components of the reference number. Base type B01 refers to the GU5.3 base.

PHOTOMETRICS

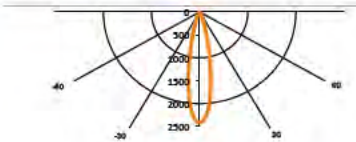
Narrow Spot - 10°

Distance to Floor	Beam Diameter (50% CBCP)	Foot Candles on Floor
3'	.5'	560
6'	1'	140
9'	1.6'	62
12'	2.1'	35
15'	2.6'	22



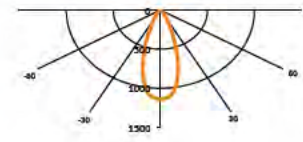
Narrow Flood - 25°

Distance to Floor	Beam Diameter (50% CBCP)	Foot Candles on Floor
3'	1.3'	267
6'	2.7'	67
9'	4'	30
12'	5.3'	17
15'	6.7'	11



Flood - 36°

Distance to Floor	Beam Diameter (50% CBCP)	Foot Candles on Floor
3'	1.9'	127
6'	3.9'	32
9'	5.8'	14
12'	7.8'	8
15'	9.7'	5

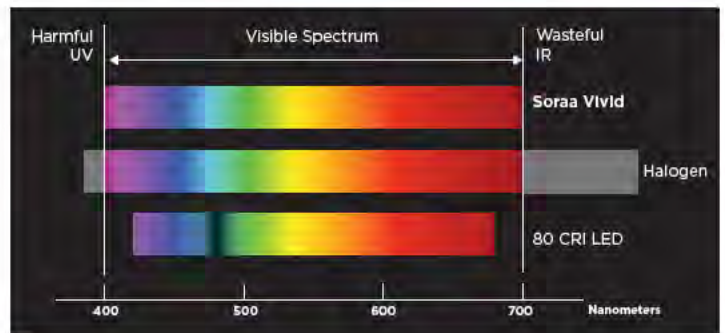
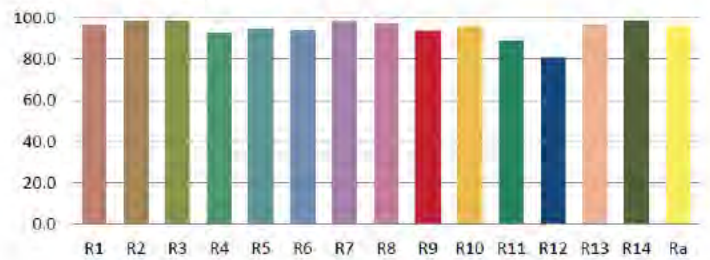


DIMENSIONS



COLOR RENDERING

CRI- Relative R Values



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, or allow lamps to cool down for approximately ten minutes before handling with bare hands.

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).

Information and specifications subject to change. Rev A 1.19.14