

# SORAA® VIVID 2

## LED MR16 5000K 12V 8-10W



Narrow Flood and Flood



Narrow Spot



reddot design award  
winner 2013



RoHS

<b>OUTPUT</b>	1140-5180 CBCP, 350-440 Lumens
<b>BEAM</b>	10°, 20°, 25°, 36°
<b>COLOR</b>	CCT: 5000K CRI>95, R9>95
<b>APPLICATION</b>	Halogen replacement lamp 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, 13.2 max)

### COLOR

CCT: 5000K  
CRI>95, R9>95  
White point accuracy within 5 SDCM  
Rich saturated color rendering  
Excellent color stability

### OPTIMIZED FORM

ANSI standard MR16 form factor:  
1.96" (50 mm) W x 1.82" (46.2 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 12VAC NEC  
Class 1 and Class 2 systems

### LONG LIFE, LOW MAINTENANCE

Life of 35,000 hours. Three year warranty

### ENERGY EFFICIENT

80% more energy efficient than standard  
halogen lamps  
Typical payback of one year or less

### INTENDED USE AND APPLICATIONS

LED retrofit lamp to replace 12V halogen  
MR16 lamps for use in outdoor sealed or  
unventilated fixtures, indoor sealed or  
unventilated fixtures, or applications with  
glass lenses

North America: This product can be  
incorporated into emergency lighting  
fixtures qualified to 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 turn  
down in any thermal environment not  
conductive to minimum airflow or proper  
ventilation

### CERTIFICATIONS

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

### SPECIFICATIONS\*

Reference Number	Product Code	Beam	Field	CBCP	Watts	Halogen Equivalent**	Lumens
MR16-40-B01-12-950-10	0349	10°	20°	5180	8	40W	350 (44 lm/W)
MR16-50-B01-12-950-20	0343	20°	38°	2740	10	50W	440 (44 lm/W)
MR16-50-B01-12-950-25	0345	25°	42°	2420	10	50W	440 (44 lm/W)
MR16-50-B01-12-950-36	0347	36°	60°	1140	10	50W	440 (44 lm/W)

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

Form Factor	Halogen Equivalent	Base	Voltage	CRI	CCT	Beam
MR16	65	B01	12	9	27	25

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

12VAC



5000K

CRI  
>95

R9  
>95



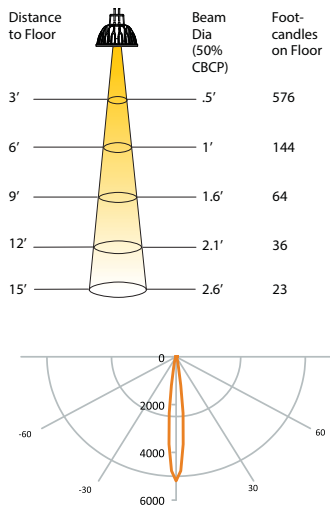
DIM



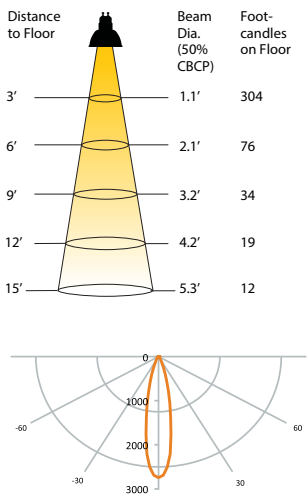
SORAA VIVID 2 MR16 LED 5000K 12V 8-10W

PHOTOMETRICS

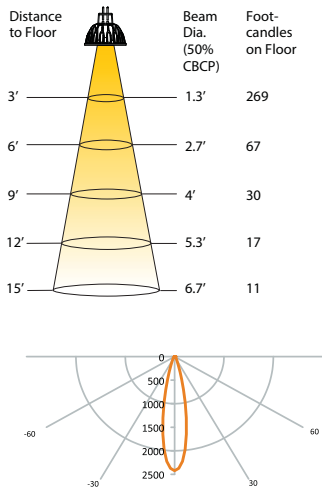
Narrow Spot - 10°



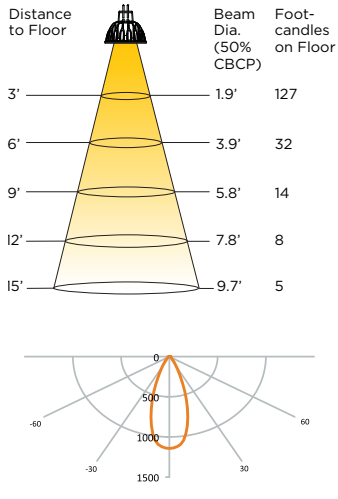
Narrow Flood - 20°



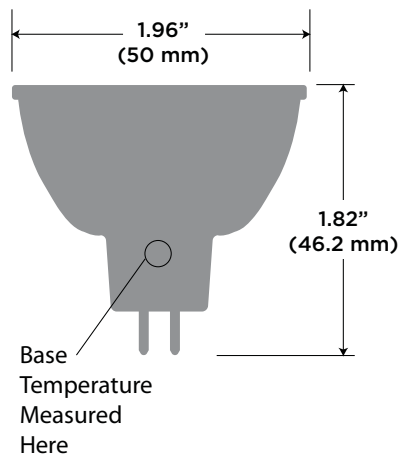
Narrow Flood -25°



Flood -36°

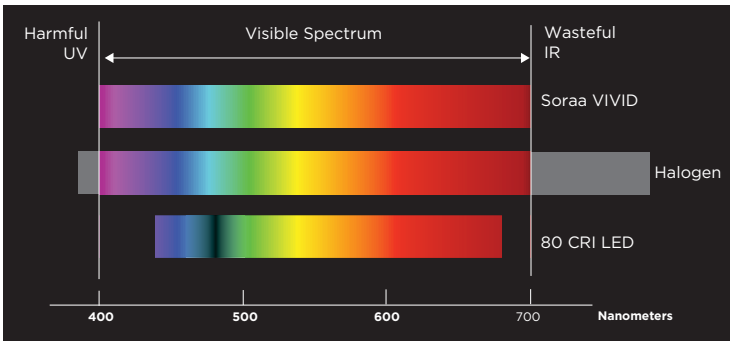
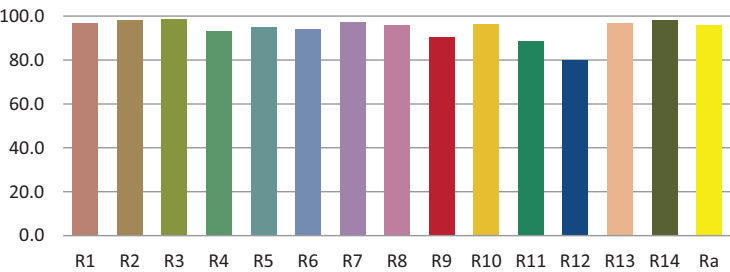


DIMENSIONS



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.

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).