

# SORAA® VIVID 2

## LED MR16 3000K 12VAC 10-12W



Narrow Flood and Flood



Narrow Spot and Spot



red dot design award  
winner 2013



RoHS

<b>OUTPUT</b>	1440-6500 CBCP, 380-440 Lumens
<b>BEAM</b>	10°, 20°, 25°, 36°
<b>COLOR</b>	CCT: 2700K CRI>95, R9>95
<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: 0.93  
12V (10.8 min, 13.2 max)

### COLOR

CCT: 3000K  
CRI>95, R9>95  
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
MR16-50-B01-12-930-10	00269	10°	20°	6500	10	50w	380 (38.6 lm/W)
MR16-50-B01-12-930-20	00237	20°	38°	2850	11.5	65w	440 (38.6 lm/W)
MR16-65-B01-12-930-25	00245	25°	42°	2620	11.5	65w	440 (38.6 lm/W)
MR16-65-B01-12-930-36	00253	36°	60°	1440	11.5	65w	440 (38.6 lm/W)

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

### 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: -40°C - 25°C  
ambient, 80-100°C (125°C max ) 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  
>95

R9  
>95



DIM



Form Factor Base Voltage CRI CCT Beam

MR16 - 65 - B01 - 12 - 930 - 25

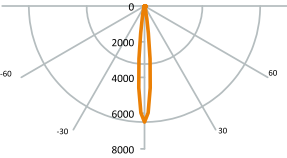
The diagram at left shows how to read the  
different components of the reference number.  
Base type B01 refers to the GU 5.3 base.

SORAA VIVID 2 MR16 LED 3000K 12VAC 10-12W

PHOTOMETRICS

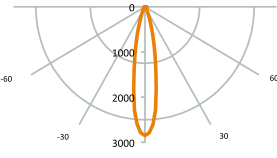
Narrow Spot - 10°

Distance to Floor	Beam Diameter (50% CBCP)	Foot-candles on Floor
3'	.5'	722
6'	1'	181
9'	1.6'	80
12'	2.1'	54
15'	2.6'	29



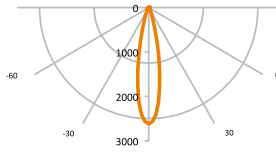
Narrow Flood - 20°

Distance to Floor	Beam Dia. (50% CBCP)	Foot-candles on Floor
3'	1.1'	317
6'	2.1'	79
9'	3.2'	35
12'	4.2'	20
15'	5.3'	13



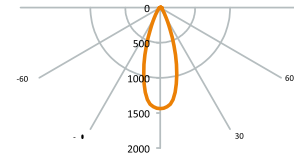
Narrow Flood - 25°

Distance to Floor	Beam Dia. (50% CBCP)	Foot-candles on Floor
3'	1.3'	291
5'	2.7'	73
3'	4'	32
2'	5.3'	18
5'	6.7'	12

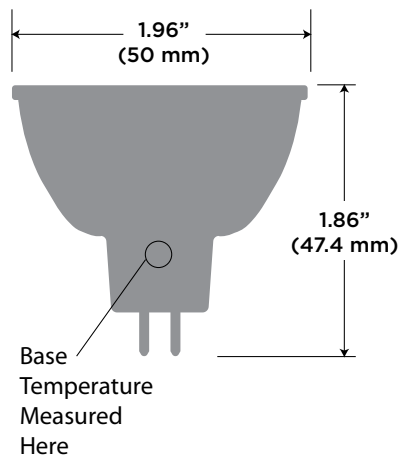


Flood - 36° Degree

Distance to Floor	Beam Dia. (50% CBCP)	Foot-candles on Floor
3'	1.9'	160
6'	3.9'	40
9'	5.8'	18
12'	7.8'	10
15'	9.7'	6

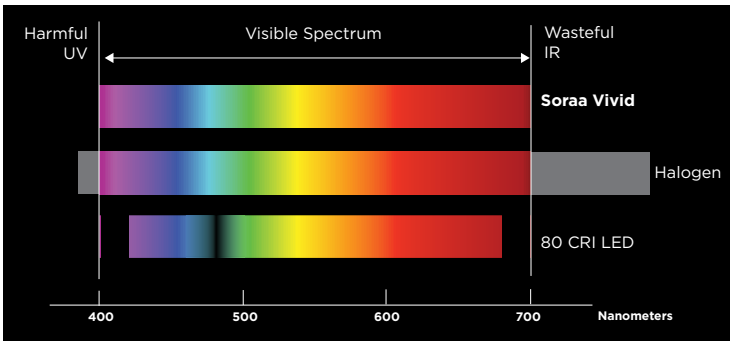
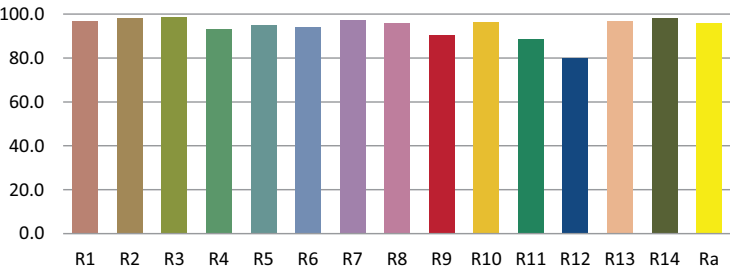


DIMENSIONS



COLOR RENDERING

CRI- Relative R Values



SORAA HIGHLY CONFIDENTIAL

As consideration for receiving the initial release of the SORAA Data Sheet, Company acknowledges and agrees not to use any confidential information associated with the SORAA Data Sheet provided to Company by SORAA for its own use or for any purpose other than to evaluate, carry out discussions concerning, and the undertaking of, a mutually beneficial relationship ("Relationship") between SORAA and Company. Company shall not disclose or permit disclosure of any Confidential Information of SORAA to third parties or to employees of the Company, other than directors, officers, employees, or consultants, of the Company who are strictly required to have the confidential information in order to carry out the discussions regarding and the evaluation of the Relationship. Company strictly agrees that it shall take reasonable measures to protect the secrecy of and avoid disclosure or use of confidential information of SORAA in order to prevent it from falling into the public domain or the possession of persons other than those persons authorized under this Agreement to have any such information.

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).