

# SORAA® VIVID 2 LED MR16 3000K 12VAC 8-10W



Narrow Flood and Flood



Narrow Spot



reddot design award  
winner 2013



**RoHS**

**Soraa Inc.**  
6500 Kaiser Drive,  
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855 GO-SORAA  
855 467-6722  
www.soraa.com

**OUTPUT** 1100-4400 CBCP, 340-420 Lumens

**BEAM** 10°, 20°, 25°, 36°

**COLOR** CCT: 3000K CRI>95, R9>95

**APPLICATION** 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

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

## SPECIFICATIONS\*

Reference Number	Product Code	Beam	Field	CBCP	Watts	Halogen Equivalent**	Lumens
MR16-40-B01-12-930-10-2	00261	10°	20°	4400	8	40W	340 (43 lm/W)
MR16-50-B01-12-930-20-2	00221	20°	38°	2650	9.8	50W	420 (43 lm/W)
MR16-50-B01-12-930-25-2	00229	25°	42°	2400	9.8	50W	420 (43 lm/W)
MR16-50-B01-12-930-36-2	00273	36°	60°	1100	9.8	50W	420 (43 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 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 for use in outdoor sealed or unventilated fixtures, indoor sealed or unventilated fixtures, or applications with glass lenses

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



3000K

CRI >95

R9 >95



DIM



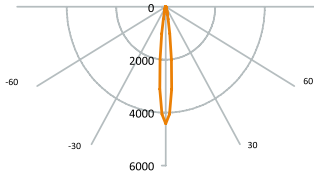
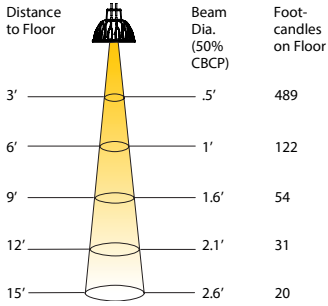
Form Factor — Base — Voltage — CRI — CCT — Beam  
MR16 - 50 - B01 - 12 - 930 - 25

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.

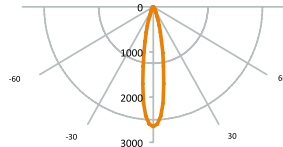
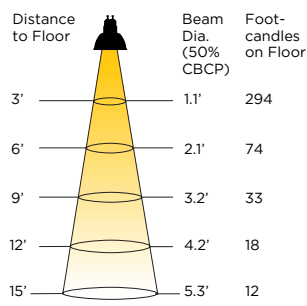
# SORAA VIVID 2 MR16 LED 3000K 12VAC 8-10W

## PHOTOMETRICS

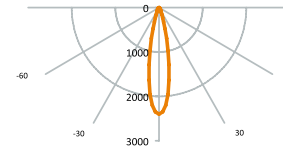
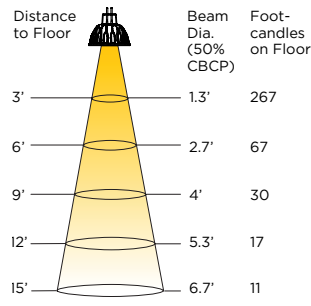
### Narrow Spot - 10°



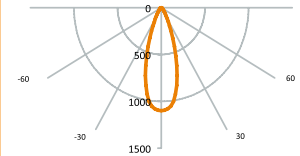
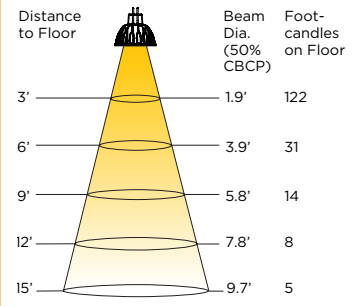
### Narrow Flood - 20°



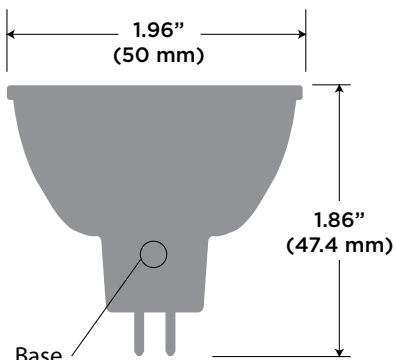
### Narrow Flood -25°



### Flood -36°



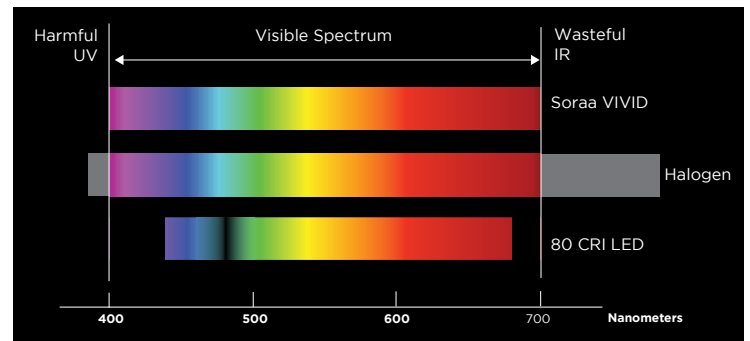
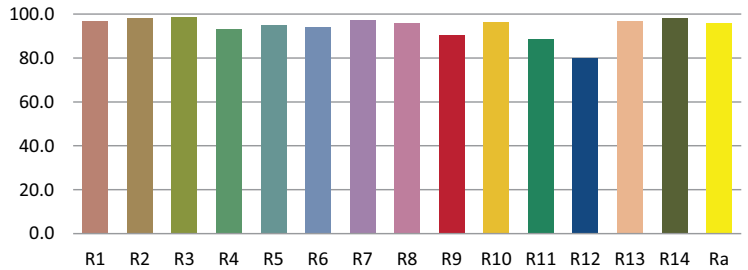
## DIMENSIONS



Base Temperature Measured Here

## 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).

Information and specifications subject to change. Rev H 5.17.13 D-110134

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