

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



Narrow Flood and Flood



Narrow Spot



reddot design award winner 2013



RoHS



Soraa Inc.
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855 467-6722
www.soraa.com

OUTPUT 1140-5180 CBCP, 350-440 Lumens

BEAM 10°, 20°, 25°, 36°

COLOR CCT: 5000K CRI>95, R9>95

APPLICATION 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)

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
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

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 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 to UL 924.

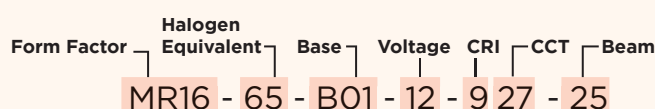
Outside of North America: This product can be incorporated into emergency lighting fixtures qualified to IEC/EN 60598-2-22

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 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



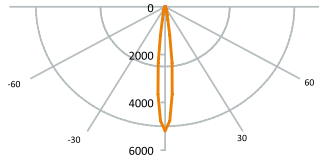
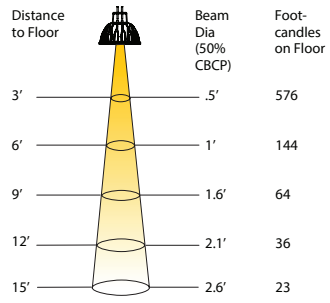
The diagram at left shows how to read the different components of the reference number. Base type B01 refers to the GU 5.3 base.



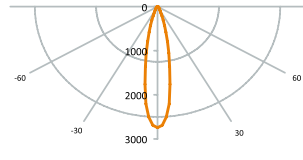
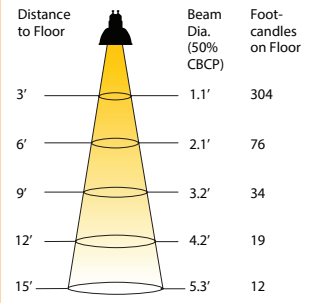
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PHOTOMETRICS

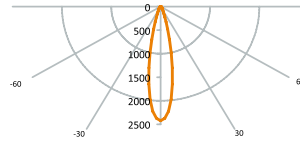
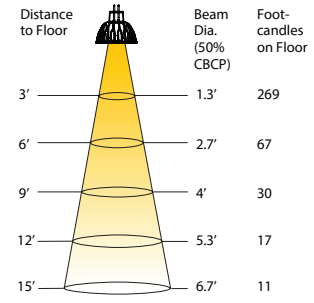
Narrow Spot - 10°



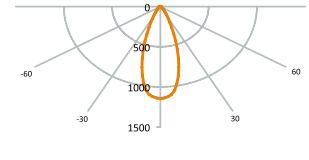
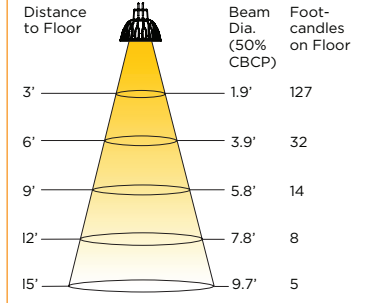
Narrow Flood - 20°



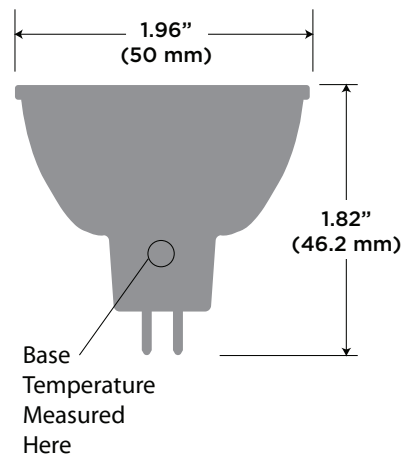
Narrow Flood -25°



Flood -36°

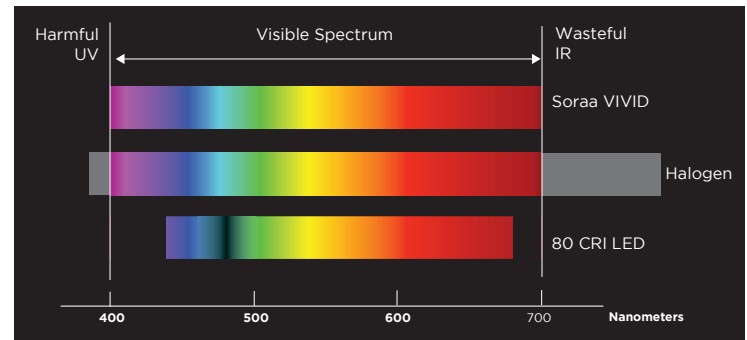
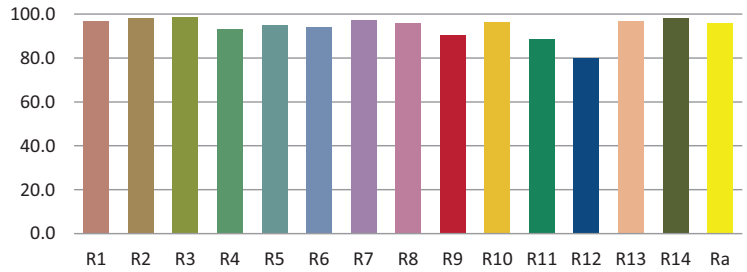


DIMENSIONS



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.

Information and specifications subject to change. Rev O 10.22.13 D-110148

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