

SORAA® VIVID 2 LED MR16 2700K 12VAC 10-12W



Narrow Flood and Flood



Narrow Spot



reddot design award
winner 2013



RoHS

Soraa Inc.
6500 Kaiser Drive,
Fremont, CA 94555
855 GO-SORAA
855 467-6722
www.soraa.com

OUTPUT	1200-5700 CBCP, 360-430 Lumens
BEAM	10°, 20°, 25°, 36°
COLOR	CCT: 2700K CRI>95, R9>95
APPLICATION	Halogen replacement for indoor 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: 2700K
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)
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-B01-12-927-10	00271	10°	20°	5700	10	50W	360 (36.5 lm/W)
MR16-65-B01-12-927-20	00277	20°	38°	2800	11.5	65W	430 (38 lm/W)
MR16-65-B01-12-927-25	00247	25°	42°	2540	11.5	65W	430 (38 lm/W)
MR16-65-B01-12-927-36	00255	36°	60°	1200	11.5	65W	430 (38 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 in recessed
downlights, track lighting, and other
indoor applications

Not recommended for use in fixtures
with glass lenses, fully sealed fixtures, or
unventilated fixtures less than 3"L x 3"W
x 3"H

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

Form Factor | Base | Voltage | CRI | CCT | Beam
MR16 - 65 - B01 - 12 - 927 - 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



2700K

CRI
>95

R9
>95



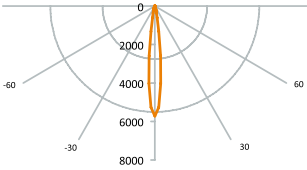
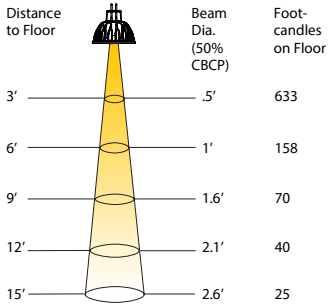
DIM



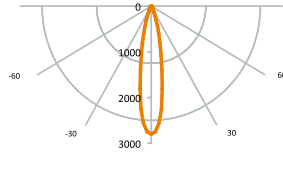
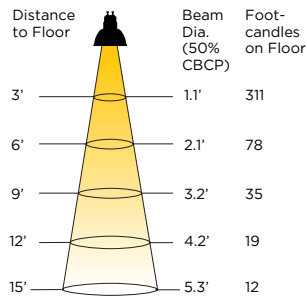
SORAA VIVID 2 MR16 LED 2700K 12VAC 10-12W

PHOTOMETRICS

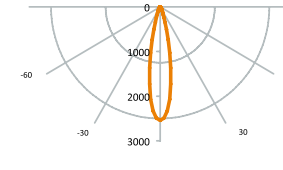
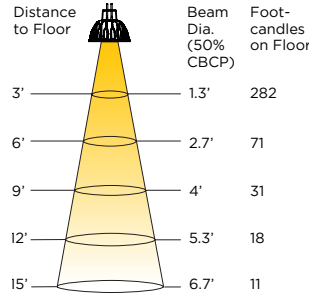
Narrow Spot - 10°



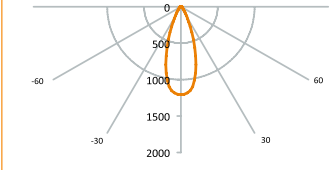
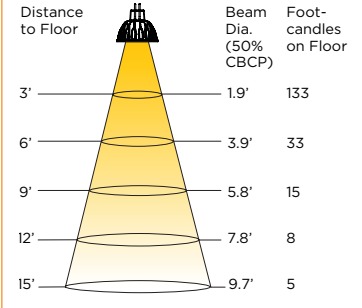
Narrow Flood - 20°



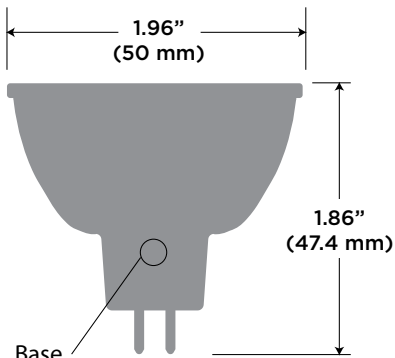
Narrow Flood -25°



Flood -36°



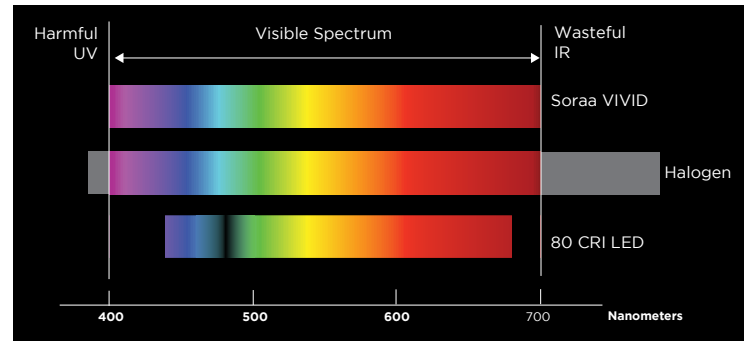
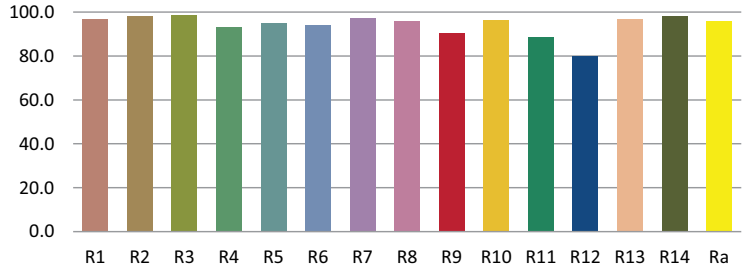
DIMENSIONS



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.

Information and specifications subject to change. Rev H 5.17.13 D-110131

Soraa Inc. 6500 Kaiser Drive, Fremont, CA 94555
855 GO-SORAA / 855 467-6722 www.soraa.com