



# SORAA LED MR16 - GU10 BASE

## 9.5W

OUTPUT RANGE: VIVID SERIES	440-490 lumen; CRI-95, R9>90
OUTPUT RANGE: BRILLIANT SERIES	535-590 lumen; CRI-80
BEAM ANGLE RANGE	25°, 36°, 60°
COLOR TEMPERATURE RANGE	2700K, 3000K
APPLICATION	Halogen replacement for indoor applications

230V

GU-10

DIM

DAMP

DIM

IR

UV

Hg

WAVELENGTH

### POINT SOURCE OPTICS

Exceptional beam control with smooth uniform beams  
Single light source, single crisp shadow

### VP<sub>3</sub> VIVID COLOR AND VP<sub>3</sub> NATURAL WHITE

VIVID series provides accurate color rendering across the visible spectrum from 400nm to 700nm, CRI-95, R9>90

Accurate white rendering based on >70% excitation of Optical Brightening Agents with emission between 400nm & 440 nm

### ENERGY EFFICIENCY AND LONG LIFE

85% more energy efficient than standard halogen lamps

Typical payback of one year or less

Rated lifetime of 35,000 hours. Three year warranty

### CERTIFICATIONS

UL Class 2 and non-class 2, CUL, FCC 47 CFR Part 15 and Part 18 (EMI), RoHS

### HIGHLY COMPATIBLE

Geometrically compatible with standard fixtures

This lamp is not recommended for use in enclosed fixtures or for use with front glass cover.

Suitable for damp locations

Works with trailing edge and leading edge phase cut dimmers (see [www.soraa.com/resources](http://www.soraa.com/resources))

### INTENDED USE AND APPLICATIONS

Intended for use in MR16 compatible recessed downlights, track lighting and other indoor applications

Soraa lamps are designed to safely shut down in any thermal environment not conducive to minimum airflow or proper ventilation

### GENERAL SPECIFICATIONS

#### Form Factor

Width: 49.9mm (1.96")

Height: 53.5mm (2.10")

Weight: 61g

#### Operating Temperature

Minimum: -40°C (ambient)

Typical: 90°C - 95°C (base)

Maximum: 100°C (base)

#### Electrical

Wattage: 9.5W

Power factor: 0.80

Voltage: 230V +/- 1.2V

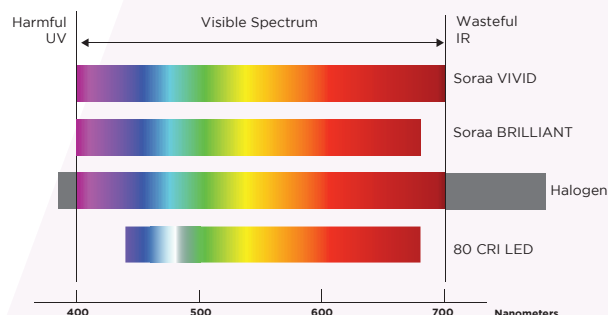
Dimmable to < 20%

Frequency: 50/60Hz

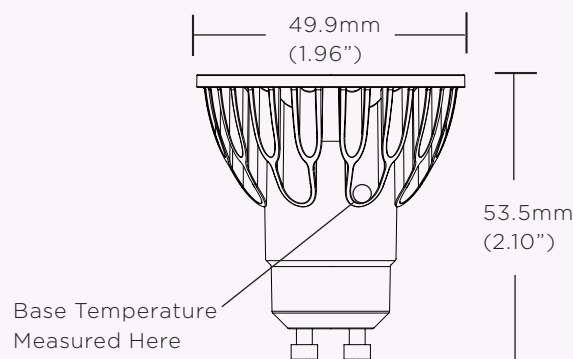
Flicker Index <0.12

Percent Flicker: 50%

### COLOR RENDERING



### DIMENSIONS



RoHS

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## BEAM DIAGRAM

Narrow Flood 25°			Flood 36°			Wide Flood 60°		
Beam Dia at 50% Intensity (m)	Field Dia at 10% Intensity (m)	Lux (% of Intensity)	Beam Dia at 50% Intensity (m)	Field Dia at 10% Intensity (m)	Lux (% of Intensity)	Beam Dia at 50% Intensity (m)	Field Dia at 10% Intensity (m)	Lux (% of Intensity)
0.4	0.7	100%	0.6	1.0	100%	1.2	1.8	100%
0.9	1.4	25%	1.3	2.0	25%	2.3	3.6	25%
1.3	2.1	11%	1.9	3.1	11%	3.5	5.4	11%
1.8	2.8	6%	2.6	4.1	6%	4.6	7.2	6%
2.2	3.4	4%	3.2	5.1	4%	5.8	9.0	4%

## SPECIFICATIONS BY PART NUMBER\*

Model Number	Product Code	CCT (K)	Beam Angle (°)	Field Angle (°)	Peak Intensity	Total Flux (Lm)	Efficacy (Lm/W)	90° Lumens	CRI/R9	White Point (McA)	**EEI
VIVID SERIES: 9.5W											
SM16GW-09-25D-927-03-S3	01969	2700	25	38	2570	465	49	440	95 / 95	3	A
SM16GW-09-36D-927-03-S3	01977	2700	36	54	1210	465	49	425	95 / 95	3	A
SM16GW-09-60D-927-03-S3	01985	2700	60	84	500	465	49	425	95 / 95	3	A
SM16GW-09-25D-930-03-S3	01973	3000	25	38	2700	490	52	465	95 / 95	3	A
SM16GW-09-36D-930-03-S3	01981	3000	36	54	1280	490	52	450	95 / 95	3	A
SM16GW-09-60D-930-03-S3	01989	3000	60	84	520	490	52	450	95 / 95	3	A
BRILLIANT SERIES: 9.5W											
SM16GW-09-25D-827-03-S3	01967	2700	25	38	3090	560	59	530	80 / >0	3	A
SM16GW-09-36D-827-03-S3	01975	2700	36	54	1460	560	59	515	80 / >0	3	A
SM16GW-09-60D-827-03-S3	01983	2700	60	84	600	560	59	515	80 / >0	3	A
SM16GW-09-25D-830-03-S3	01971	3000	25	38	3260	590	62	560	80 / >0	3	A
SM16GW-09-36D-830-03-S3	01979	3000	36	54	1540	590	62	540	80 / >0	3	A
SM16GW-09-60D-830-03-S3	01987	3000	60	84	630	590	62	540	80 / >0	3	A

\*Specifications are at stable warm operating conditions (25°C ambient)    \*\*Energy Efficiency Index

CCT = Correlated Color Temperature      CRI = Color Rendering Index (Ra-8)      White Point = White Point Accuracy in McA step

## SAFETY NOTE ON HEAT

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.

Information and specifications subject to change. SM16GW 9W Rev1 12.02.15

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