



MR16-GU10 9W

2	APPLICATION	Not suitable for enclosed or lensed fixtures. Halogen replacement for indoor applications.			
	COLOR TEMPERATURE RANGE	2700K, 3000K			
	BEAM ANGLE RANGE	25°, 36°, 60°			
	OUTPUT RANGE: BRILLIANT SERIES	560 - 590 lumen			
	OUTPUT RANGE: VIVID SERIES	465 - 490 lumen			



POINT SOURCE OPTICS

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

VP, VIVID COLOR & VP, NATURAL WHITE

VIVID series provides accurate color rendering across the visible spectrum from 400nm to 700nm, with CRI/95, R9/95, Rf/90, Rg/100

Whiteness rendering matches or exceeds that of halogen and incandescent sources at 2700K and 3000K

ENERGY EFFICIENCY & LONG LIFE

85% more energy efficient than standard halogen lamps

Typical payback of one year or less

Rated lifetime of 35,000 hours. 3 year warranty

CERTIFICATIONS

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



GENERAL SPECIFICATIONS

Form Factor

Operating Temperature

Width: 49.9mm (1.96") Height: 53.5mm (2.10") Weight: 61g Minimum: -40°C (ambient) Typical: 90°C - 95°C (base) Maximum: 100°C (base)

Electrical

Wattage: 9W Power factor: 0.93 Voltage: 120V +/- 12V Frequency: 50/60Hz

Dimming and Flicker

Dimmable to <20% Flicker Index: <0.12 Percent Flicker: 40%

HIGHLY COMPATIBLE

Geometrically compatible with standard fixtures and suitable for damp locations

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)

INTENDED USE AND APPLICATIONS

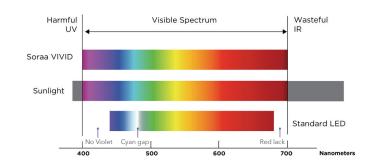
Intended for use in GU10 compatible recessed downlights, track lighting and other indoor and outdoor applications

Soraa lamps are designed to safely turn down in high temperature environments to protect LED and components. This lamp should not be used in fully enclosed or lensed fixtures

DIMENSIONS

49.9mm (1.96") 53.5mm (2.10") Base Temperature Measured Here

COLOR RENDERING



36 DEGREE BEAM

Beam Dia at 50% Field Dia at 10% Foot-candles CBCP (ft) CBCP (ft) (% of CBCP) 1.3 2.1 11.1% 2.7 4.1 2.8% 4.0 6.2 1.2% 9' 8.3 0.7% 12′ 5.3 15′ 0.4% 6.7 10.3

Beam Dia at 50% CBCP (ft)	Field Dia at 10% CBCP (ft)	Foot-candles (% of CBCP)
1.9	3.1	11.1%
3.9	6.1	2.8%
5.8	9.2	1.2%
7.8	12.2	0.7%
9.7	15.3	0.4%

60 DEGREE BEAM

25 DEGREE BEAM

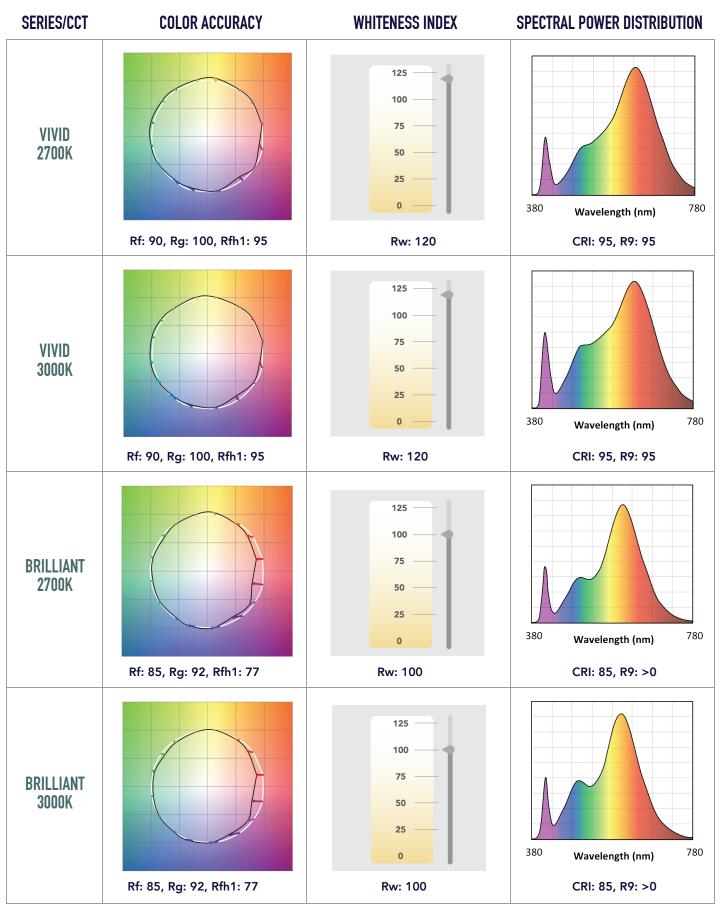
Beam Dia at 50% CBCP (ft)	Field Dia at 10% CBCP (ft)	Foot-candles (% of CBCP)	
3.5	5.4	11.1%	3'
6.9	10.8	2.8%	6'
10.4	16.2	1.2%	9'
13.9	21.6	0.7%	12'
17.3	27.0	0.4%	15′

Note: Footcandles may be calculated by multiplying the CBCP of the desired model number by the percentage in the tables above

SPECIFICATIONS BY MODEL NUMBER* SORAA LED MR16-GU10 9W

Model #	Product Code	CCT (K)	Beam Angle	Field Angle	CBCP (Cd)	Halogen Equivalent	Total Flux (Lm)	Efficacy (Lm/W)	McA	Energy Star	SNAP
VIVID SERIES											
SM16GA-09-25D-927-03	02489	2700	25	38	2570	65	465	52	3	-	-
SM16GA-09-36D-927-03	02497	2700	36	54	1210	65	465	52	3	-	-
SM16GA-09-60D-927-03	02505	2700	60	84	500	65	465	52	3	-	-
SM16GA-09-25D-930-03	02493	3000	25	38	2700	65	490	54	3	-	-
SM16GA-09-36D-930-03	02501	3000	36	54	1280	65	490	54	3	-	-
SM16GA-09-60D-930-03	02509	3000	60	84	520	65	490	54	3	-	-
BRILLIANT SERIES											
SM16GA-09-25D-827-03	02487	2700	25	38	3090	75	560	62	3	-	-
SM16GA-09-36D-827-03	02495	2700	36	54	1460	75	560	62	3	-	-
SM16GA-09-60D-827-03	02503	2700	60	84	600	75	560	62	3	-	-
SM16GA-09-25D-830-03	02491	3000	25	38	3260	75	590	66	3	-	-
SM16GA-09-36D-830-03	02499	3000	36	54	1540	75	590	66	3	-	-
SM16GA-09-60D-830-03	02507	3000	60	84	630	75	590	66	3	-	-

CCT: Correlated Color Temperature **McA**: White Point Accuracy in McA step **SNAP:** SORAA SNAP System Compatible *Specifications are at stable warm operating conditions (25°C ambient)



Rf: TM-30 metric measuring color fidelity (whether colors are similar to those under natural light). Rf is a more accurate version of the CRI Ra. Rf is 100 for natural light. Rg: TM-30 metric measuring color gamut (whether colors are more saturated than under natural light). Rg is 100 for natural light.

Rfh1: TM-30 metric measuring color fidelity for red tones. Rfh1 is a more accurate version of the CRI R9. Rfh1 is 100 for natural light.

Rw: Soraa-developed metric to measure white fidelity. Rw measures the magnitude of excitation of whitening agents within whites. Rw is about 100 for natural light.