SORAA
SIMPLY PERFECT LIGHT

MR16-GU10 9W

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

120V GU10 DIM IR UV

POINT SOURCE OPTICS

Exceptional beam control with smooth uniform beams

Single light source, single crisp shadow

VP_3 VIVID COLOR & VP_3 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 to L70: 35,000hrs

Warranty: 3yrs or 25,000hrs whichever comes first

Detailed warranty information available at soraa.com/resources/legal

CERTIFICATIONS

UL/CUL, FCC Title 47 Part 15B, RoHS

c UL us RoHS

HIGHLY COMPATIBLE

Geometrically compatible with standard fixtures and suitable for damp locations

Not suitable for enclosed, lensed, baffled, or deeply recessed fixtures

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 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

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: 9W

Power factor: 0.93

Voltage: 120V +/- 12V

Frequency: 50/60Hz

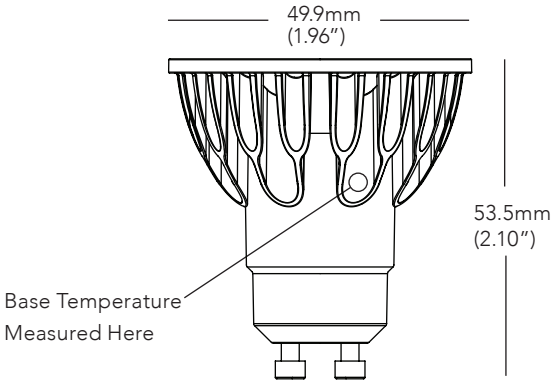
Dimming and Flicker

Dimmable to <20%

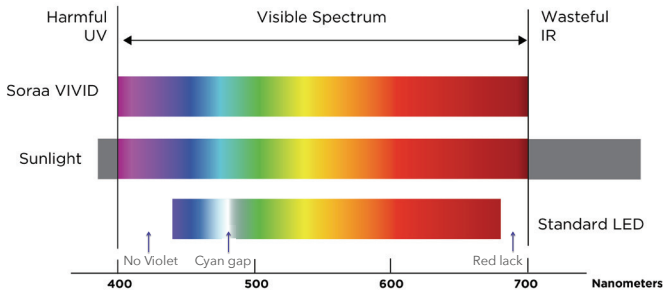
Flicker Index: <0.12

Percent Flicker: 40%

DIMENSIONS

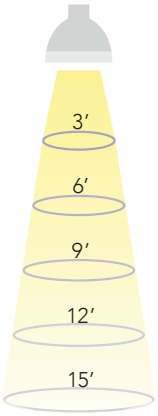


COLOR RENDERING



25 DEGREE BEAM

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

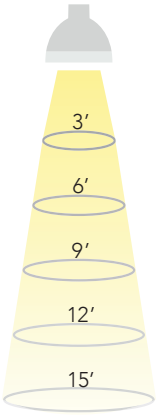


36 DEGREE BEAM

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

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



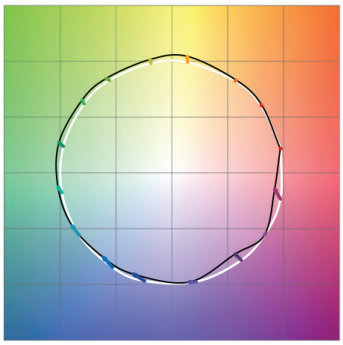
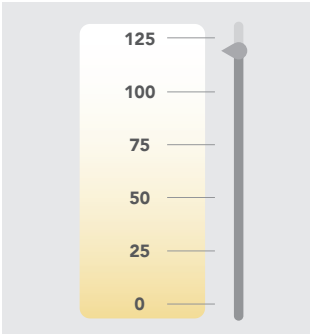
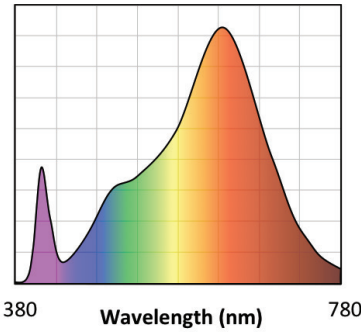
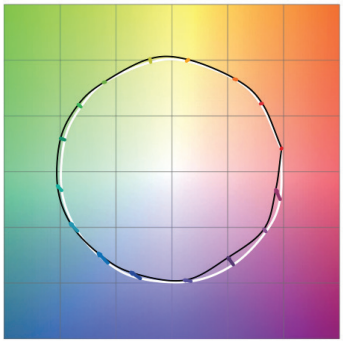
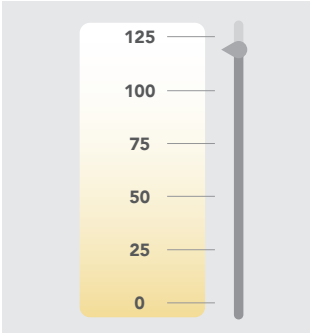
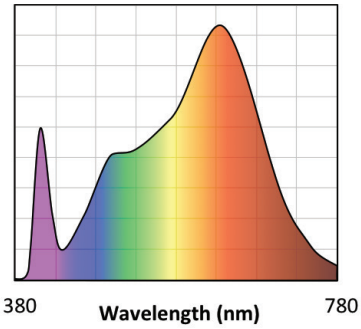
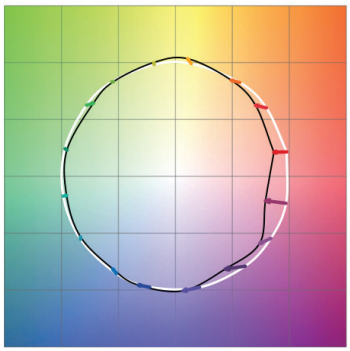
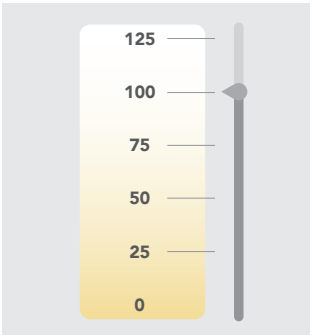
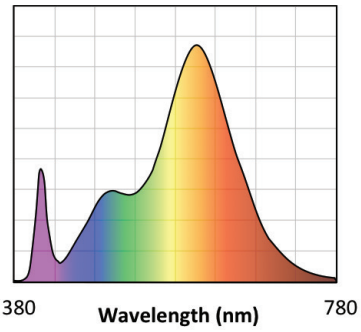
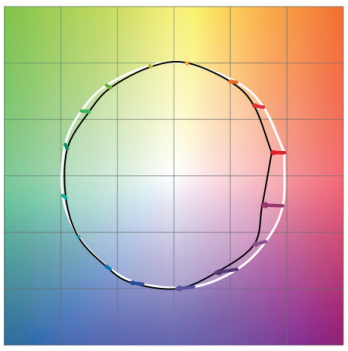
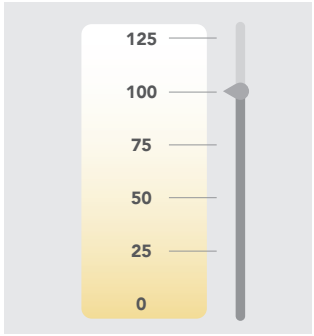
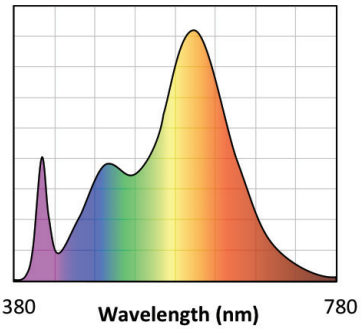
Note: Footcandles may be calculated by multiplying the CBCP of the desired model number by the percentage in the tables above

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	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	470	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	500	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	570	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	600	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)

SERIES/CCT	COLOR ACCURACY	WHITENESS INDEX	SPECTRAL POWER DISTRIBUTION
VIVID 2700K	 Rf: 90, Rg: 100, Rfh1: 95	 Rw: 120	 CRI: 95, R9: 95
VIVID 3000K	 Rf: 90, Rg: 100, Rfh1: 95	 Rw: 120	 CRI: 95, R9: 95
BRILLIANT 2700K	 Rf: 85, Rg: 92, Rfh1: 77	 Rw: 100	 CRI: 85, R9: >0
BRILLIANT 3000K	 Rf: 85, Rg: 92, Rfh1: 77	 Rw: 100	 CRI: 85, R9: >0

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.

Soraa Inc. 6500 Kaiser Drive, Suite 110, Fremont, CA 94555
855 GO-SORAA / 855 467-6722 | www.soraa.com