



SORAA VIVID™

Soraa VIVID lamps offer beautiful and accurate color and white rendering across the entire visible spectrum, mimicking the natural range of sunlight to deliver unmatched quality of light for color critical applications.

POINT SOURCE OPTICS™

Point Source Optics deliver exceptional beam quality with crisp shadows, perfect uniformity and precisely controlled beam distributions from 10° to 60°.

SORAA VIVID COLOR™

Soraa VIVID lamps utilize full spectrum light to provide industry-leading color rendition of CRI/95, R9/95, Rf/90, Rg/100 for precise color reproduction.

SORAA NATURAL WHITE™

Soraa VIVID lamps are engineered to deliver outstanding whiteness rendering for true-to-life whites, which matches or exceeds incandescent sources at 2700K and 3000K.

FLICKER

Soraa lamps demonstrate imperceptible levels of flicker in both dimmed and undimmed states.

ENERGY EFFICIENCY

85% more energy efficient than standard halogen lamps, with typical payback of one year or less.

GENERAL SPECIFICATIONS

Form Factor

Width: 49.9mm (1.96")

Height: 53.5mm (2.10")

Weight: 61g

Operating Temperature

Minimum: -40°C (ambient)

Typical: 85°C - 95°C (base)

Maximum: 100°C (base)

Output

390 - 455 lumen

Beam Angle

10°, 25°, 36°, 60°

Color Temperature

2700K, 3000K, 4000K

Color Metrics

CIE Metrics: CRI 95, R9 95
TM30 Metrics: Rf 90, Rg 100
Whiteness Index: Rw 100

Applications

Hotels & Hospitality
Galleries & Museums
High-End Retail



ACCESSORIES

Narrow spot compatible with the Soraa SNAP System™.

THERMAL COMPATIBILITY

Suitable for use in fully enclosed fixtures, subject to the maximum heatsink temperature limits stated in this data sheet. Designed to safely turn down in high temperature environments to protect LED and components.

ELECTRICAL COMPATIBILITY

Works with trailing edge and leading edge phase cut dimmers. Check individual lamp website pages for compatibility data. For more information visit: www.soraa.com.

INTENDED USE & LOCATION RATING

Intended for use in MR16 GU10 compatible recessed downlights, track lighting and other indoor applications. Suitable for damp locations, not rated for use in wet locations.

LIFETIME & WARRANTY

Rated lifetime to L70: 35,000hrs

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

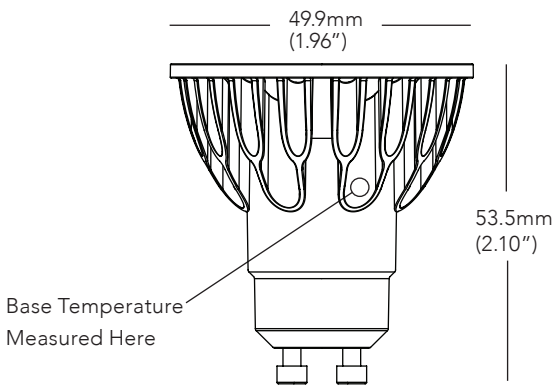
For warranty information visit: www.soraa.com/resources/legal



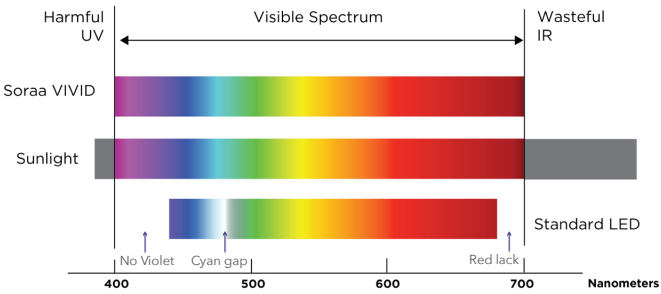
RoHS



DIMENSIONS

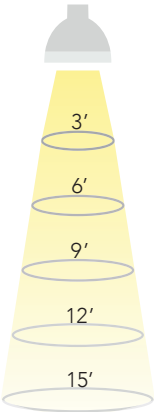


COLOR RENDERING



10 DEGREE BEAM

Beam Dia at 50% CBCP (ft)	Field Dia at 10% CBCP (ft)	Foot-candles (% of CBCP)
0.5	1.1	11.1%
1.0	2.1	2.8%
1.6	3.2	1.2%
2.1	4.2	0.7%
2.6	5.3	0.4%

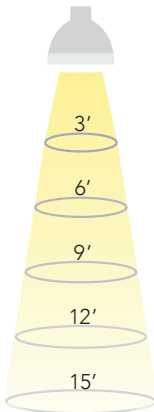


25 DEGREE BEAM

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 7.5W 120V

Model #	Product Code	CCT (K)	Beam Angle	Field Angle	CBCP (Cd)	Total Flux (Lm)	Efficacy (Lm/W)	McA	SNAP
VIVID SERIES									
SM16GA-07-10D-927-03	01111	2700	10	17	5710	390	52	3	YES
SM16GA-07-25D-927-03	01123	2700	25	38	2260	410	55	3	-
SM16GA-07-36D-927-03	01135	2700	36	54	1070	410	55	3	-
SM16GA-07-60D-927-03	01573	2700	60	84	420	410	55	3	-
SM16GA-07-10D-930-03	01115	3000	10	17	6000	410	55	3	YES
SM16GA-07-25D-930-03	01127	3000	25	38	2400	435	58	3	-
SM16GA-07-36D-930-03	01139	3000	36	54	1130	435	58	3	-
SM16GA-07-60D-930-03	01577	3000	60	84	440	435	58	3	-
SM16GA-07-10D-940-03	01117	4000	10	17	6290	430	58	4	YES
SM16GA-07-25D-940-03	01129	4000	25	38	2510	455	61	4	-
SM16GA-07-36D-940-03	01141	4000	36	54	1190	455	61	4	-
SM16GA-07-60D-940-03	01579	4000	60	84	460	455	61	4	-

CCT: Correlated Color Temperature McA: White Point Accuracy in McA step SNAP: SORAA SNAP System Compatible

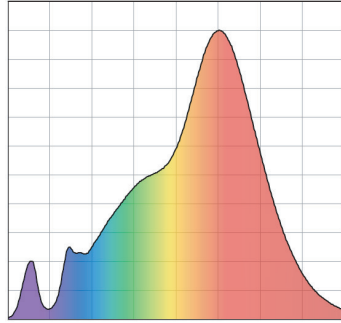
*Specifications are at stable warm operating conditions (25°C ambient)

CCT

SPECTRAL POWER
DISTRIBUTION

COLOR QUALITY METRICS

COLOR ACCURACY

VIVID
2700K

CRI: 95, R9: 95

CRI 95

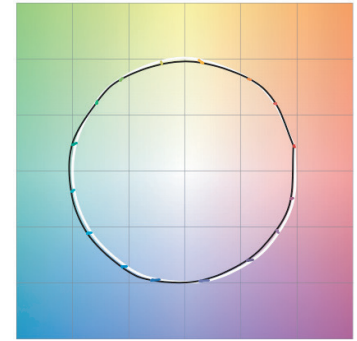
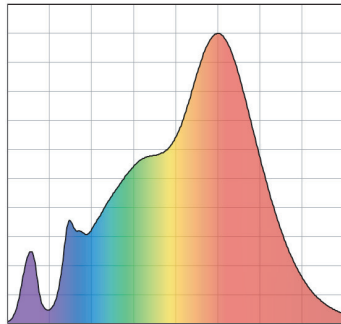
R9 95

Rf 95

Rg 100

Rf-h1 95

Rw 90

VIVID
3000K

CRI: 95, R9: 95

CRI 95

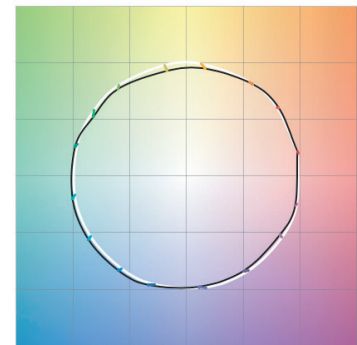
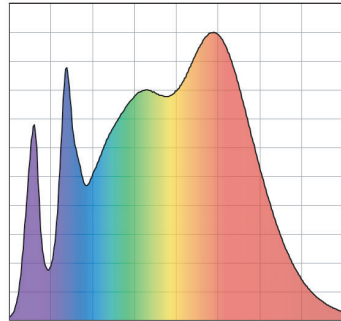
R9 95

Rf 95

Rg 100

Rf-h1 95

Rw 90

VIVID
4000K

CRI: 95, R9: 95

CRI 95

R9 95

Rf 98

Rg 100

Rf-h1 100

Rw 100

