

MR16 E11 7.5W



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.

ENERGY EFFICIENCY

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

Output	390 - 455 lumen
Beam Angle	10°, 25°, 36°
Color Temperature	2700K, 3000K, 4000K
Applications	Halogen replacement for indoor & outdoor applications

















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 E11 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 (C)



GENERAL SPECIFICATIONS

Form Factor Operating Temperature Width: 49.9mm (1.96") Minimum: -40°C (ambient) Height: 63.2mm (2.48") Typical: 85°C - 95°C (base) Weight: 65g Maximum: 100°C (base)

Electrical Wattage: 7.5W

Power factor: 0.92

Voltage: 100V +/- 10V Frequency: 50/60Hz

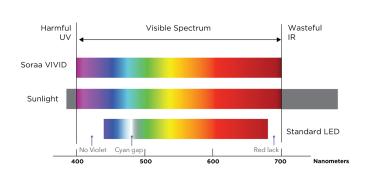
Dimming

Please reference our compatibility chart for dimmer and transformer information.

DIMENSIONS

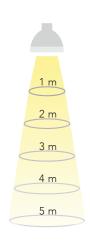
49.9mm (1.96") 63.2mm (2.48") Base Temperature Measured Here

COLOR RENDERING



10 DEGREE BEAM

Beam Dia at 50% Intensity (m)	Field Dia at 10% Intensity (m)	Lux (% of Intensity)			
0.2	0.4	100%			
0.3	0.7	25%			
0.5	1.1	11%			
0.7	1.4	6%			
0.9	1.8	4%			

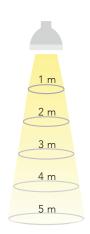


25 DEGREE BEAM

Beam Dia at 50% Intensity (m)	Field Dia at 10% Intensity (m)	Lux (% of Intensity)
0.4	0.7	100%
0.9	1.5	25%
1.3	2.2	11%
1.8	2.9	6%
2.2	3.6	4%

36 DEGREE BEAM

Beam Dia at 50% Intensity (m)	Field Dia at 10% Intensity (m)	Lux (% of Intensity)			
0.6	1.1	100%			
1.3	2.2	25%			
1.9	3.3	11%			
2.6	4.3	6%			
3.2	5.4	4%			



Note: Lux may be calculated by multiplying the peak Intensity of the desired model number by the percentage in the tables above

SPECIFICATIONS BY MODEL NUMBER* SORAA LED MR16-E11 7.5W

Model #	Product Code	CCT (K)	Beam Angle	Field Angle	CBCP (Cd)	Total Flux (Lm)	Efficacy (Lm/W)	McA	SNAP
VIVID SERIES									
SM16J-07-10D-927-03-S5	02097	2700	10	17	5710	390	52	3	YES
SM16J-07-25D-927-03-S5	02109	2700	25	39	2260	410	55	3	-
SM16J-07-36D-927-03-S5	02121	2700	36	54	1070	410	55	3	-
SM16J-07-10D-930-03-S5	02101	3000	10	17	6000	410	55	3	YES
SM16J-07-25D-930-03-S5	02113	3000	25	39	2400	435	58	3	-
SM16J-07-36D-930-03-S5	02125	3000	36	54	1130	435	58	3	-
SM16J-07-10D-940-03-S5	02103	4000	10	17	6290	430	57	3	YES
SM16J-07-25D-940-03-S5	02115	4000	25	39	2510	455	61	3	-
SM16J-07-36D-940-03-S5	02127	4000	36	54	1190	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)

CRI: 95, R9: 95