



POINT SOURCE OPTICS™

Exceptional beam control enables unique 8° narrow spot and smooth uniform beams

Single light source, single crisp shadow

SORAA VIVID COLOR™ AND SORAA NATURAL WHITE™

All Soraa VIVID lamps feature the right amount of spectral content from violet to deep red in every wavelength from 400nm to 700nm with 95 CRI, R9>95 and Rw 100 typical

Soraa's whiteness methodology means we render white faithfully, matching or exceeding that of halogen and incandescent sources at 2700K and 3000K

https://www.soraa.com/resources/tm30

ENERGY EFFICIENCY AND 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 Class 2 and non-Class 2, FCC Title 47 Part 15B, RoHS, CE



Form Factor





GENERAL SPECIFICATIONS

Operating Temperature Width: 111mm (4.37") Minimum: -40°C (ambient) Height: 57mm (2.24") Typical: 60°C - 70°C (base) Weight: 250g Maximum: 80°C (base)

Output Range: Vivid Series	575 - 645 lumen
Beam Angle Range	8°, 25°, 36°
Color Temperature Range	2700K, 3000K
Application	Halogen replacement for indoor and outdoor applications



















HIGHLY COMPATIBLE

Thermally and geometrically compatible with standard fixtures and suitable for damp locations

Suitable for fully enclosed fixtures. Can be used with front

Works with trailing edge and leading edge phase cut dimmers, 12V AC magnetic and electronic transformers and 12V DC transformers (see www.soraa.com/resources)

INTENDED USE AND APPLICATIONS

Intended for use in AR111 compatible recessed downlights, track lighting and other indoor and outdoor applications

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

ACCESSORIES

Narrow spot compatible with the Soraa SNAP System™

Electrical Dimming and Flicker

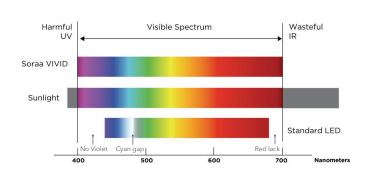
Wattage: 12.5W Dimmable to <20% Power factor: 0.92 Flicker Index < 0.1 Voltage: 12V +/- 1.2V Percent Flicker: 28%

Frequency: 50/60Hz

DIMENSIONS

111mm (4.37") 57mm (2.24") Base Temperature Measured Here

COLOR RENDERING



8 DEGREE BEAM

Beam Dia at 50% CBCP (ft)	Field Dia at 10% CBCP (ft)	Foot-candles (% of CBCP)
0.4	0.7	6.8%
0.8	1.5	2.3%
1.3	2.2	1.1%
1.7	2.9	0.7%
2.1	3.7	0.4%

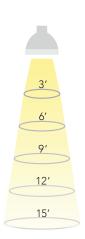


25 DEGREE BEAM

Beam Dia at 50% CBCP (ft)	Field Dia at 10% CBCP (ft)	Foot-candles (% of CBCP)
1.3	2.2	6.8%
2.7	4.4	2.3%
4.0	6.6	1.1%
5.3	8.7	0.7%
6.7	10.9	0.4%

36 DEGREE BEAM

Beam Dia at 50% CBCP (ft)	Field Dia at 10% CBCP (ft)	Foot-candles (% of CBCP)
1.9	3.5	6.8%
3.9	6.9	2.3%
5.8	10.4	1.1%
7.8	13.9	0.7%
9.7	17.3	0.4%



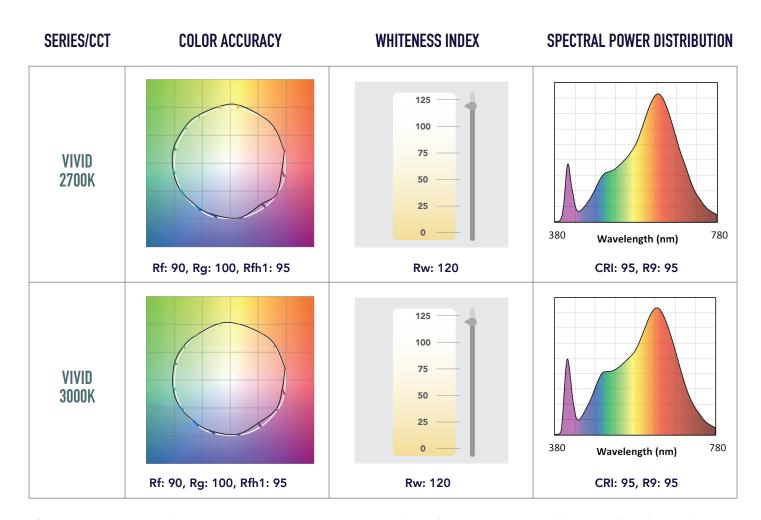
Note: Footcandles may be calculated by multiplying the CBCP of the desired model number by the percentage in the tables above

SPECIFICATIONS BY MODEL NUMBER* SORAA LED AR111 12.5W

Model #	Product Code	CCT (K)	Beam Angle	Field Angle	CBCP (Cd)	Halogen Equivalent	Total Flux (Lm)	Efficacy (Lm/W)	McA	SNAP
VIVID SERIES										
SR111-12-08D-927-03	01379	2700	8	14	15520	50	575	46	3	YES
SR111-12-25D-927-03	01381	2700	25	40	3100	50	575	46	3	-
SR111-12-36D-927-03	01383	2700	36	60	1420	50	575	46	3	-
SR111-12-08D-930-03	01395	3000	8	14	16740	50	620	50	3	YES
SR111-12-25D-930-03	01397	3000	25	40	3340	50	620	50	3	-
SR111-12-36D-930-03	01399	3000	36	60	1540	50	620	50	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.