



### 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 9° to 36°.

### 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.

### ACCESSORIES

Narrow spot compatible with the Soraa SNAP SYSTEM™

### GENERAL SPECIFICATIONS

Form Factor	Operating Temperature	Operating Current*	Forward Voltage
Width: 111mm (4.37")	Minimum: -40°C (ambient)	Typical: 400mA	Nominal: 36V DC
Height: 57mm (2.24")	Typical: 70°C - 80°C (base)	Maximum: 450mA	Range: 34-38V DC
Weight: 250g	Maximum: 90°C (base)		

\*User must determine that operating current and corresponding lamp power meet application requirements (lamp base not to exceed 90°C)

Output	930 - 1000 lumen
Beam Angle	9°, 25°, 36°
Color Temperature	2700K, 3000K
Color Metrics	CIE Metrics: CRI 95, R9 95 TM30 Metrics: Rf 95, Rg 100 Whiteness Index: Rw 90
Applications	Hotels & Hospitality Galleries & Museums High-End Retail



### ENERGY EFFICIENCY

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

### HIGHLY COMPATIBLE

Fixture compatibility and driving current are subject to the base temperature. Exceeding maximum ratings for operating and storage temperature will reduce expected lifetime or destroy the CC AR111 lamp, voiding the lamp warranty. The temperature at the base of the lamp must be measured at the point indicated on this specification sheet.

### INTENDED USE & LOCATION RATING

Intended for use in AR111 compatible recessed downlights, track lighting and other indoor and outdoor applications. Suitable for damp locations, not rated for use in wet locations. Designed to work with external constant current driver.

This light source produces greater than 2mW/klm of UV light and is intended only for high color and white rendering applications, where the UV light is required to activate optical brightening agents in illuminated objects.

### LIFETIME & WARRANTY

Rated lifetime to L70: 35,000hrs  
For warranty information visit: [www.soraa.com/resources/legal](http://www.soraa.com/resources/legal)  
Warranty: 3yrs or 25,000hrs whichever comes first

### STORAGE CONDITIONS

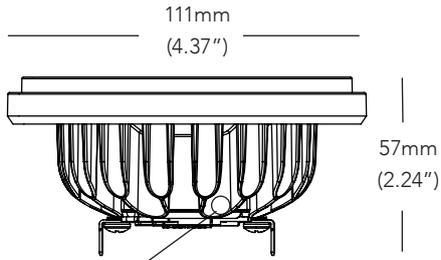
Maximum storage temperature of 90°C



RoHS

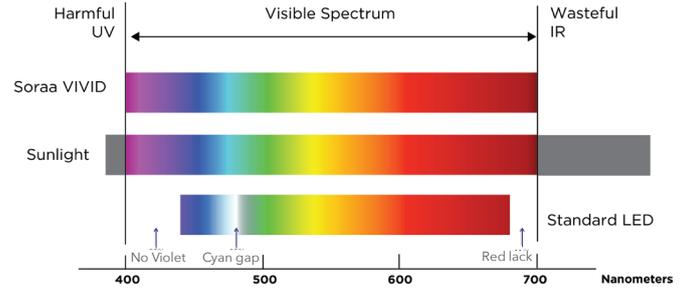


## DIMENSIONS



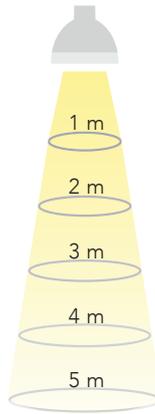
Base Temperature Measured Here  
Not to exceed 90°C

## COLOR RENDERING



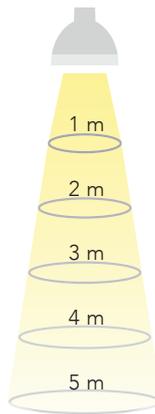
## 9 DEGREE BEAM

Beam Dia at 50% Intensity (m)	Field Dia at 10% Intensity (m)	Lux (% of Intensity)
0.2	0.3	77%
0.3	0.6	23%
0.5	0.8	11%
0.6	1.1	6%
0.8	1.4	4%



## 25 DEGREE BEAM

Beam Dia at 50% Intensity (m)	Field Dia at 10% Intensity (m)	Lux (% of Intensity)
0.4	0.7	77%
0.9	1.5	23%
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	1.2	77%
1.3	2.3	23%
1.9	3.5	11%
2.6	4.6	6%
3.2	5.8	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 AR111 CONSTANT CURRENT 36V

Model #	Product Code	CCT (K)	Beam Angle	Field Angle	Peak Intensity	Total Flux (Lm)	90° Lumens	McA	SNAP
<b>VIVID SERIES</b>									
SR111-CC2-09D-927-01	13779	2700	9	16	20360	840	750	3	YES
SR111-CC2-25D-927-01	13781	2700	25	40	4560	840	780	3	-
SR111-CC2-36D-927-01	13783	2700	36	60	2100	840	770	3	-
SR111-CC2-09D-930-01	13780	3000	9	16	21900	900	810	3	YES
SR111-CC2-25D-930-01	13782	3000	25	40	4900	900	840	3	-
SR111-CC2-36D-930-01	13784	3000	36	60	2270	900	830	3	-

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

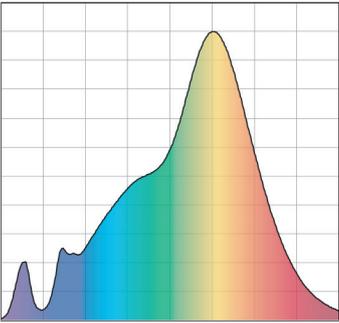
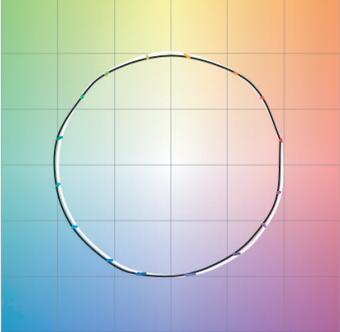
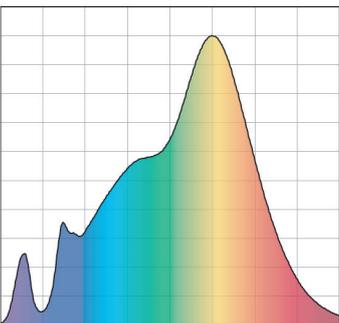
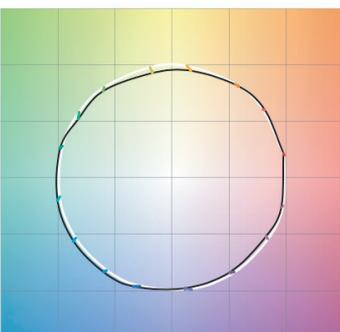
\*Specifications are at 400mA and 80°C heatsink temperature

### CCT

### SPECTRAL POWER DISTRIBUTION

### COLOR QUALITY METRICS

### COLOR ACCURACY

<p><b>VIVID 2700K</b></p>	 <p><b>CRI: 95, R9: 95</b></p>	<p><b>CRI</b> 95</p> <p><b>R9</b> 95</p> <p><b>Rf</b> 95</p> <p><b>Rg</b> 100</p> <p><b>Rf-h1</b> 95</p> <p><b>Rw</b> 90</p>	
<p><b>VIVID 3000K</b></p>	 <p><b>CRI: 95, R9: 95</b></p>	<p><b>CRI</b> 95</p> <p><b>R9</b> 95</p> <p><b>Rf</b> 95</p> <p><b>Rg</b> 100</p> <p><b>Rf-h1</b> 95</p> <p><b>Rw</b> 90</p>	

**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.