

# PAR36 6W



OUTPUT RANGE: VIVID SERIES	275-300 lumen
OUTPUT RANGE: BRILLIANT SERIES	355-380 lumen
BEAM ANGLE RANGE	4°
COLOR TEMPERATURE RANGE	2700K, 3000K
APPLICATION	Halogen replacement for indoor & outdoor applications



## POINT SOURCE OPTICS

Exceptional beam control enables unique 4° narrow spot and smooth uniform beams  
Single light source, single crisp shadow

## VP<sub>3</sub> VIVID COLOR AND VP<sub>3</sub> 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 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](http://soraa.com/resources/legal)

## CERTIFICATIONS

FCC Title 47 Part 15B, RoHS, CE



## HIGHLY COMPATIBLE

Narrow spot compatible with Soraa SNAP System accessories  
Thermally and geometrically compatible with standard fixtures and suitable for damp locations  
Suitable for fully enclosed fixtures. Can be used with front glass cover  
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](http://www.soraa.com/resources))

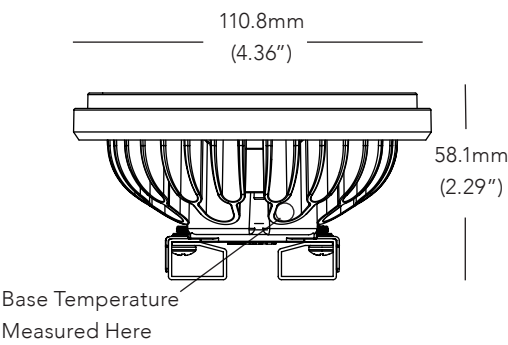
## INTENDED USE AND APPLICATIONS

Intended for use in PAR36 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

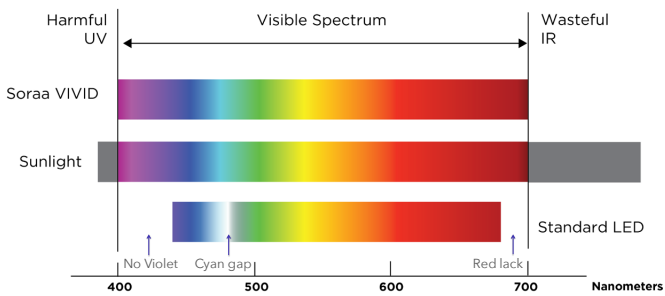
## GENERAL SPECIFICATIONS

Form Factor	Operating Temperature	Electrical	Dimming and Flicker
Width: 110.8mm (4.36")	Minimum: -40°C (ambient)	Wattage: 6W	Dimmable to <20%
Height: 58.1mm (2.29")	Typical: 50°C - 60°C (base)	Power factor: 0.92	Flicker Index <0.06
Weight: 280g	Maximum: 65°C (base)	Voltage: 12V +/- 1.2V	Percent Flicker: 22%
		Frequency: 50/60Hz	

DIMENSIONS

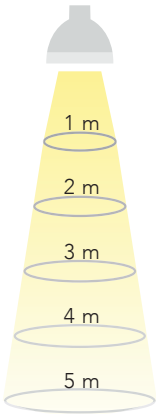


COLOR RENDERING



4 DEGREE BEAM

Beam Dia at 50% Intensity (m)	Field Dia at 10% Intensity (m)	Lux (% of Intensity)
0.1	0.2	61%
0.1	0.3	21%
0.2	0.5	11%
0.3	0.6	6%
0.3	0.8	4%

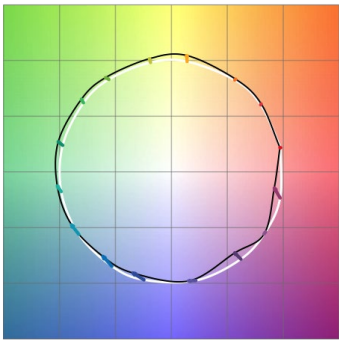
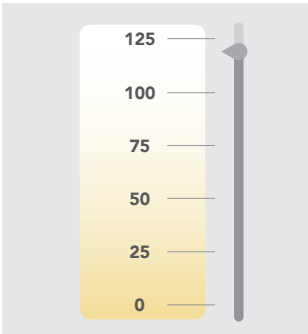
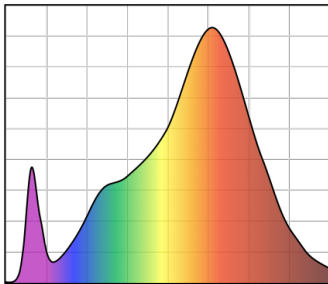
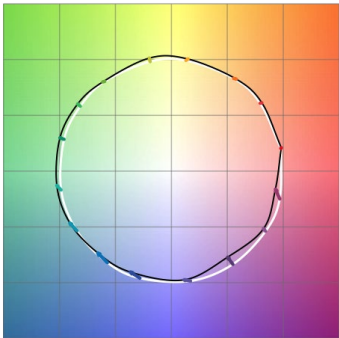
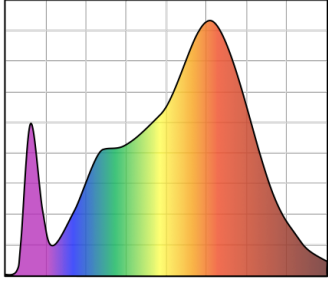
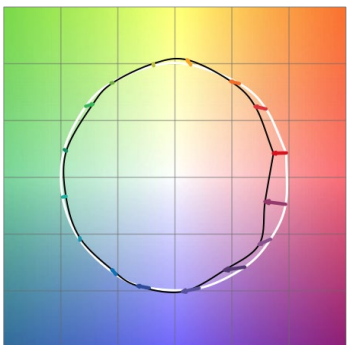
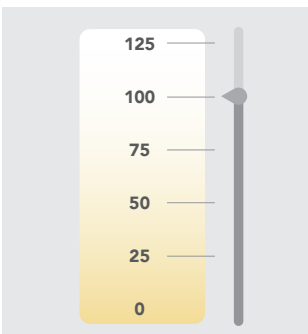
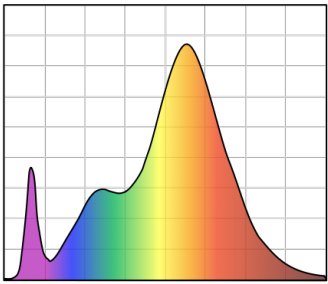
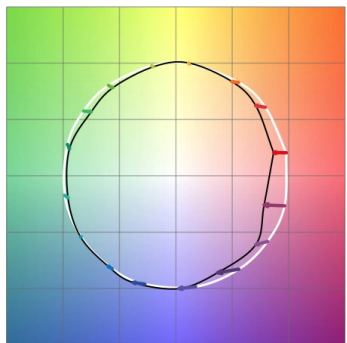
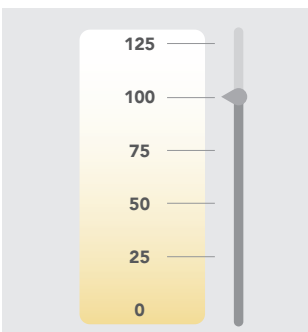
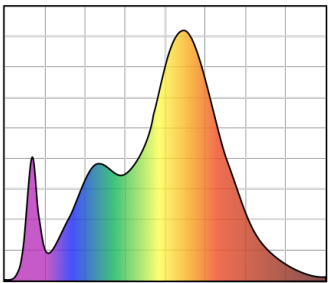


Note: Lux may be calculated by multiplying the peak Intensity of the desired model number by the percentage in the tables above

SPECIFICATIONS BY MODEL NUMBER\* SORAA LED PAR36 6W

Model #	Product Code	CCT (K)	Beam Angle	Field Angle	Peak Intensity	Total Flux (Lm)	Efficacy (Lm/W)	90° Lumens	McA	EEI	SNAP
VIVID SERIES											
SP36-06-04D-927-03-S3	03561	2700	4	9	11540	275	45	245	3	A	YES
SP36-06-04D-930-03-S3	03563	3000	4	9	12600	300	50	270	3	A	YES
BRILLIANT SERIES											
SP36-06-04D-827-03-S3	03557	2700	4	9	14900	355	59	315	3	A	YES
SP36-06-04D-830-03-S3	03559	3000	4	9	15960	380	63	340	3	A	YES

CCT: Correlated Color Temperature    **McA**: White Point Accuracy in McA step    **SNAP**: SORAA SNAP System Compatible    **EEI**: Energy Efficiency Index  
\*Specifications are at stable warm operating conditions (25°C ambient)

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