



SORAA LED PAR 30 LONG NECK 12.5W

OUTPUT RANGE: VIVID SERIES	575-650 lumen; CRI-95, R9>90
OUTPUT RANGE: BRILLIANT SERIES	735-795 lumen; CRI-80
BEAM ANGLE RANGE	8°, 25°, 36°, 50°
COLOR TEMPERATURE RANGE	2700K, 3000K, 4000K, 5000K
APPLICATION	Halogen replacement for indoor & outdoor applications

230V

E27

Hourglass icon

Water drop icon

DIM

IR icon

UV icon

Hg icon

Graph icon

POINT SOURCE OPTICS

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

Single light source, single crisp shadow

VP₃ VIVID COLOR AND VP₃ NATURAL WHITE

VIVID series provides accurate color rendering across the visible spectrum from 400nm to 700nm, CRI-95, R9>90

Accurate white rendering based on >70% excitation of Optical Brightening Agents with emission between 400nm & 440 nm

ENERGY EFFICIENCY AND LONG LIFE

85% more energy efficient than standard halogen lamps

Typical payback of one year or less

Rated lifetime of 35,000 hours. Three year warranty

CERTIFICATIONS

UL/CUL Class 2 and non-Class 2, FCC Title 47 Part 15B, RoHS, CE

HIGHLY COMPATIBLE

Narrow spot compatible with Soraa SNAP System accessories

Thermally and geometrically compatible with standard fixtures

Suitable for fully enclosed fixtures per UL 1993. Can be used with front glass cover

Suitable for damp locations per UL

Works with trailing edge and leading edge phase cut dimmers (see www.soraa.com/resources)

INTENDED USE AND APPLICATIONS

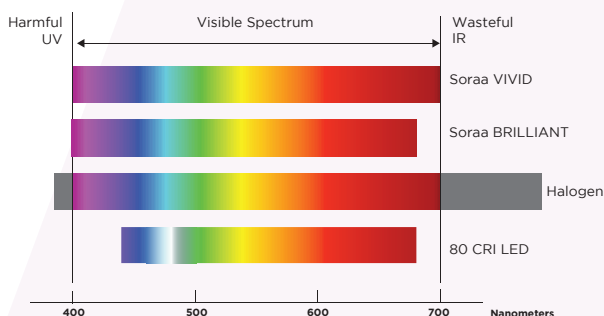
For use in PAR30L compatible recessed downlights, track lighting and other indoor and outdoor applications

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

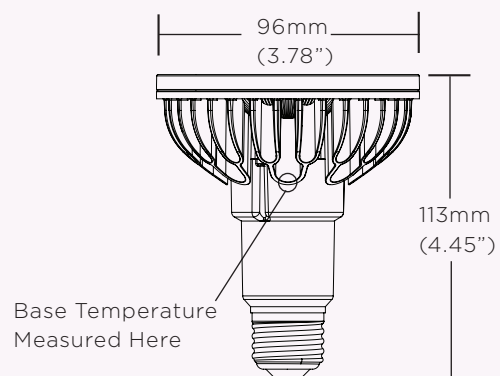
GENERAL SPECIFICATIONS

Form Factor	Operating Temperature	Electrical	
Width: 96mm (3.78")	Minimum: -40°C (ambient)	Wattage: 12.5W	Dimmable to <20%
Height: 113mm (4.45")	Typical: 60°C - 70°C (base)	Power factor: 0.95	Flicker Index < 0.1
Weight: 295g	Maximum: 80°C (base)	Voltage: 230V +/- 12V	Percent Flicker: 29%

COLOR RENDERING



DIMENSIONS



RoHS

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BEAM DIAGRAM

Narrow Spot 8°			Narrow Flood 25°			Distance to Floor (m)	Flood 36°			Wide Flood 50°		
Beam Dia at 50% Intensity (m)	Field Dia at 10% Intensity (m)	Lux (% of Intensity)	Beam Dia at 50% Intensity (m)	Field Dia at 10% Intensity (m)	Lux (% of Intensity)		Beam Dia at 50% Intensity (m)	Field Dia at 10% Intensity (m)	Lux (% of Intensity)	Beam Dia at 50% Intensity (m)	Field Dia at 10% Intensity (m)	Lux (% of Intensity)
0.1	0.2	61%	0.4	0.7	61%	1	0.6	1.2	61%	0.9	1.7	61%
0.3	0.5	21%	0.9	1.5	21%	2	1.3	2.3	21%	1.9	3.4	21%
0.4	0.7	11%	1.3	2.2	11%	3	1.9	3.5	11%	2.8	5.0	11%
0.6	1.0	6%	1.8	2.9	6%	4	2.6	4.6	6%	3.7	6.7	6%
0.7	1.2	4%	2.2	3.6	4%	5	3.2	5.8	4%	4.7	8.4	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*

Model Number	Product Code	CCT (K)	Beam Angle (°)	Field Angle (°)	Peak Intensity	Halogen Equivalent** (Watts)	Total Flux (Lm)	Efficacy (Lm/W)	90 ° Lumens	CRI/R9	White Point (McA)	EEI ***
SORAA VIVID SERIES												
SP30LW-12-08D-927-03-S3 ^{SNAP}	01903	2700	8	14	15520	90	575	46	550	95 / 95	3	A
SP30LW-12-25D-927-03-S3	01905	2700	25	40	3100	75	575	46	550	95 / 95	3	A
SP30LW-12-36D-927-03-S3	01907	2700	36	60	1420	75	575	46	555	95 / 95	3	A
SP30LW-12-50D-927-03-S3	01909	2700	50	80	740	75	575	46	550	95 / 95	3	A
SP30LW-12-08D-930-03-S3 ^{SNAP}	01919	3000	8	14	16740	90	620	50	595	95 / 95	3	A
SP30LW-12-25D-930-03-S3	01921	3000	25	40	3340	75	620	50	595	95 / 95	3	A
SP30LW-12-36D-930-03-S3	01923	3000	36	60	1540	75	620	50	600	95 / 95	3	A
SP30LW-12-50D-930-03-S3	01925	3000	50	80	800	75	620	50	595	95 / 95	3	A
SP30LW-12-08D-940-03-S3 ^{SNAP}	01935	4000	8	14	17400	90	645	50	615	95 / 95	4	A
SP30LW-12-25D-940-03-S3	01937	4000	25	40	3480	75	645	50	615	95 / 95	4	A
SP30LW-12-36D-940-03-S3	01939	4000	36	60	1600	75	645	50	625	95 / 95	4	A
SP30LW-12-50D-940-03-S3	01941	4000	50	80	820	75	645	50	615	95 / 95	4	A
SP30LW-12-08D-950-03-S3 ^{SNAP}	01943	5000	8	14	17540	90	650	52	620	95 / 90	5	A
SP30LW-12-25D-950-03-S3	01945	5000	25	40	3500	75	650	52	620	95 / 90	5	A
SP30LW-12-36D-950-03-S3	01947	5000	36	60	1620	75	650	52	630	95 / 90	5	A
SP30LW-12-50D-950-03-S3	01949	5000	50	80	840	75	650	52	620	95 / 90	5	A
SORAA BRILLIANT SERIES												
SP30LW-12-08D-827-03-S3 ^{SNAP}	01911	2700	8	14	19840	100	735	59	705	80 / >0	3	A
SP30LW-12-25D-827-03-S3	01913	2700	25	40	3960	90	735	59	705	80 / >0	3	A
SP30LW-12-36D-827-03-S3	01915	2700	36	60	1820	90	735	59	710	80 / >0	3	A
SP30LW-12-50D-827-03-S3	01917	2700	50	80	940	90	735	59	705	80 / >0	3	A
SP30LW-12-08D-830-03-S3 ^{SNAP}	01927	3000	8	14	21460	100	795	64	760	80 / >0	3	A
SP30LW-12-25D-830-03-S3	01929	3000	25	40	4280	90	795	64	760	80 / >0	3	A
SP30LW-12-36D-830-03-S3	01931	3000	36	60	1980	90	795	64	770	80 / >0	3	A
SP30LW-12-50D-830-03-S3	01933	3000	50	80	1020	90	795	64	760	80 / >0	3	A

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

**Energy Star Minimum

***Energy Efficiency Index

CCT = Correlated Color Temperature

CRI = Color Rendering Index (Ra-8)

White Point = White Point Accuracy in McA step

^{SNAP}SORAA SNAP System Compatible

SAFETY NOTE ON HEAT

Although Soraa’s lamps operate at cooler temperatures than halogen lamps, it is recommended that gloves be worn when handling bare lamps that have been energized.