



SORAA LED PAR30S SHORT 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



DIM



POINT SOURCE OPTICS

Exceptional beam control enables unique 9° 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

RoHS, CE

HIGHLY COMPATIBLE

Narrow spot compatible with Soraa SNAP System accessories

Thermally and geometrically compatible with standard fixtures

Suitable for fully enclosed fixtures. Can be used with front glass cover. Suitable for damp locations.

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

INTENDED USE AND APPLICATIONS

For use in PAR30S 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

Width: 96mm (3.78")

Height: 82mm (3.23")

Weight: 274g

Operating Temperature

Minimum: -40°C (ambient)

Typical: 60°C - 70°C (base)

Maximum: 80°C (base)

Electrical

Wattage: 12.5W

Power factor: 0.93

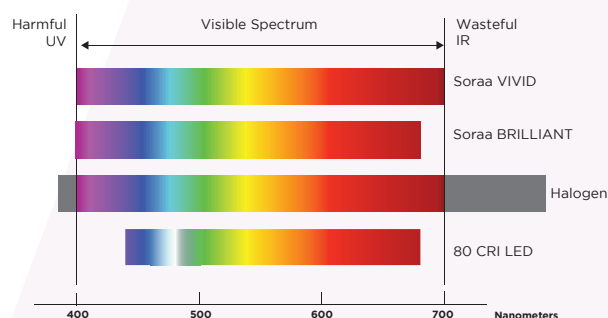
Voltage: 230V +/- 23V

Dimmable to <30%

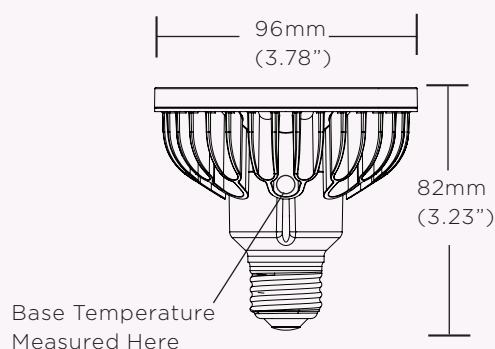
Flicker Index < 0.1

Percent Flicker: 35%

COLOR RENDERING



DIMENSIONS



RoHS



SORAA LED PAR30S SHORT NECK 12.5W

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	Total Flux (Lm)	Efficacy (Lm/W)	90 ° Lumens	CRI/R9	White Point (McA)	EEI **
SORAA VIVID SERIES											
SP30SW-12-08D-927-03-S3 ^{SNAP}	02799	2700	8	14	15520	575	46	515	95 / 95	3	A
SP30SW-12-25D-927-03-S3	02801	2700	25	40	3100	575	46	520	95 / 95	3	A
SP30SW-12-36D-927-03-S3	02803	2700	36	60	1420	575	46	505	95 / 95	3	A
SP30SW-12-50D-927-03-S3	02805	2700	50	80	740	575	46	515	95 / 95	3	A
SP30SW-12-08D-930-03-S3 ^{SNAP}	02815	3000	8	14	16740	620	49.6	555	95 / 95	3	A
SP30SW-12-25D-930-03-S3	02817	3000	25	40	3340	620	49.6	560	95 / 95	3	A
SP30SW-12-36D-930-03-S3	02819	3000	36	60	1540	620	49.6	545	95 / 95	3	A
SP30SW-12-50D-930-03-S3	02821	3000	50	80	800	620	49.6	555	95 / 95	3	A
SP30SW-12-08D-940-03-S3 ^{SNAP}	02831	4000	8	14	17400	645	51.6	580	95 / 95	4	A
SP30SW-12-25D-940-03-S3	02833	4000	25	40	3480	645	51.6	585	95 / 95	4	A
SP30SW-12-36D-940-03-S3	02835	4000	36	60	1600	645	51.6	565	95 / 95	4	A
SP30SW-12-50D-940-03-S3	02837	4000	50	80	820	645	51.6	580	95 / 95	4	A
SP30SW-12-08D-950-03-S3 ^{SNAP}	02839	5000	8	14	17540	650	52	585	95 / 90	5	A
SP30SW-12-25D-950-03-S3	02841	5000	25	40	3500	650	52	590	95 / 90	5	A
SP30SW-12-36D-950-03-S3	02843	5000	36	60	1620	650	52	570	95 / 90	5	A
SP30SW-12-50D-950-03-S3	02845	5000	50	80	840	650	52	585	95 / 90	5	A
SORAA BRILLIANT SERIES											
SP30SW-12-08D-827-03-S3 ^{SNAP}	02807	2700	8	14	19840	735	58.8	660	80 / >0	3	A
SP30SW-12-25D-827-03-S3	02809	2700	25	40	3960	735	58.8	665	80 / >0	3	A
SP30SW-12-36D-827-03-S3	02811	2700	36	60	1820	735	58.8	645	80 / >0	3	A
SP30SW-12-50D-827-03-S3	02813	2700	50	80	940	735	58.8	660	80 / >0	3	A
SP30SW-12-08D-830-03-S3 ^{SNAP}	02823	3000	8	14	21460	795	63.6	715	80 / >0	3	A
SP30SW-12-25D-830-03-S3	02825	3000	25	40	4280	795	63.6	720	80 / >0	3	A
SP30SW-12-36D-830-03-S3	02827	3000	36	60	1980	795	63.6	695	80 / >0	3	A
SP30SW-12-50D-830-03-S3	02829	3000	50	80	1020	795	63.6	715	80 / >0	3	A

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

CCT = Correlated Color Temperature

CRI = Color Rendering Index (Ra-8)

^{SNAP}SORAA SNAP System Compatible

** Energy Efficiency Index

White Point = White Point Accuracy in McA step

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.

Information and specifications subject to change. SP30SW 12W Rev 1 8.11.15

Soraa Inc. Unit 1 Chelsing House, Mead Lane, Hertford, Hertfordshire SG13 7AW, United Kingdom +44 (0)1992 535053 www.soraa.com