



SORAA LED PAR30S SHORT NECK

18.5W

OUTPUT RANGE: VIVID SERIES	930-1050 lumen; CRI-95, R9>90
OUTPUT RANGE: BRILLIANT SERIES	1190-1280 lumen; CRI-80
BEAM ANGLE RANGE	9°, 25°, 36°, 60°
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: 70°C - 80°C (base)

Maximum: 90°C (base)

Electrical

Wattage: 18.5W

Power factor: 0.93

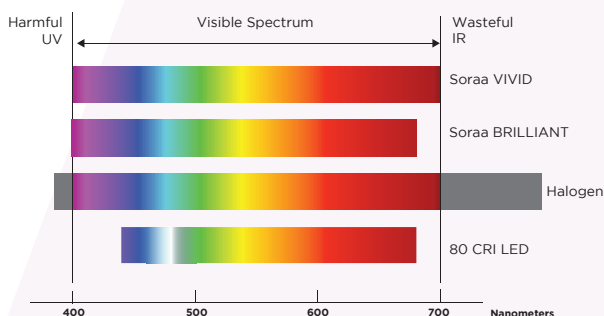
Voltage: 230V +/- 23V

Dimmable to <20%

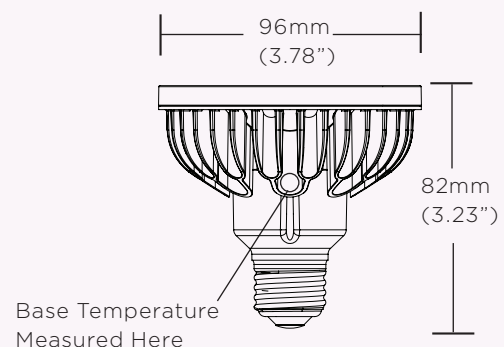
Flicker Index < 0.12

Percent Flicker: 50%

COLOR RENDERING



DIMENSIONS



RoHS



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BEAM DIAGRAM

Narrow Spot 9°			Narrow Flood 25°			Distance to Floor (m)	Flood 36°			Wide Flood 60°		
Beam Dia at 50% Intensity (m)	Field Dia at 10% Inten- sity (m)	Lux (% of Inten- sity)	Beam Dia at 50% Intensity (m)	Field Dia at 10% Inten- sity (m)	Lux (% of Inten- sity)		Beam Dia at 50% Intensity (m)	Field Dia at 10% Inten- sity (m)	Lux (% of Inten- sity)	Beam Dia at 50% Intensity (m)	Field Dia at 10% Inten- sity (m)	Lux (% of Inten- sity)
0.2	0.3	77%	0.4	0.7	77%	1	0.6	1.2	77%	1.2	2.0	77%
0.3	0.6	23%	0.9	1.5	23%	2	1.3	2.3	23%	2.3	4.0	23%
0.5	0.8	11%	1.3	2.2	11%	3	1.9	3.5	11%	3.5	6.0	11%
0.6	1.1	6%	1.8	2.9	6%	4	2.6	4.6	6%	4.6	8.0	6%
0.8	1.4	4%	2.2	3.6	4%	5	3.2	5.8	4%	5.8	10.0	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-18-09D-927-03-S3 ^{SNAP}	02751	2700	9	16	22400	930	50	835	95 / 95	3	A
SP30SW-18-25D-927-03-S3	02753	2700	25	40	5020	930	50	860	95 / 95	3	A
SP30SW-18-36D-927-03-S3	02755	2700	36	60	2320	930	50	855	95 / 95	3	A
SP30SW-18-60D-927-03-S3	02757	2700	60	90	1020	930	50	825	95 / 95	3	A
SP30SW-18-09D-930-03-S3 ^{SNAP}	02767	3000	9	16	24100	1000	54	900	95 / 95	3	A
SP30SW-18-25D-930-03-S3	02769	3000	25	40	5400	1000	54	930	95 / 95	3	A
SP30SW-18-36D-930-03-S3	02771	3000	36	60	2500	1000	54	920	95 / 95	3	A
SP30SW-18-60D-930-03-S3	02773	3000	60	90	1100	1000	54	890	95 / 95	3	A
SP30SW-18-09D-940-03-S3 ^{SNAP}	02783	4000	9	16	25060	1040	56	935	95 / 95	4	A
SP30SW-18-25D-940-03-S3	02785	4000	25	40	5600	1040	56	965	95 / 95	4	A
SP30SW-18-36D-940-03-S3	02787	4000	36	60	2600	1040	56	955	95 / 95	4	A
SP30SW-18-60D-940-03-S3	02789	4000	60	90	1140	1040	56	925	95 / 95	4	A
SP30SW-18-09D-950-03-S3 ^{SNAP}	02791	5000	9	16	25300	1050	57	945	95 / 90	5	A
SP30SW-18-25D-950-03-S3	02793	5000	25	40	5660	1050	57	975	95 / 90	5	A
SP30SW-18-36D-950-03-S3	02795	5000	36	60	2620	1050	57	965	95 / 90	5	A
SP30SW-18-60D-950-03-S3	02797	5000	60	90	1140	1050	57	930	95 / 90	5	A
SORAA BRILLIANT SERIES											
SP30SW-18-09D-827-03-S3 ^{SNAP}	02759	2700	9	16	28660	1190	64	1070	80 / >0	3	A
SP30SW-18-25D-827-03-S3	02761	2700	25	40	6420	1190	64	1105	80 / >0	3	A
SP30SW-18-36D-827-03-S3	02763	2700	36	60	2960	1190	64	1090	80 / >0	3	A
SP30SW-18-60D-827-03-S3	02765	2700	60	90	1300	1190	64	1055	80 / >0	3	A
SP30SW-18-09D-830-03-S3 ^{SNAP}	02775	3000	9	16	30840	1280	69	1150	80 / >0	3	A
SP30SW-18-25D-830-03-S3	02777	3000	25	40	6900	1280	69	1190	80 / >0	3	A
SP30SW-18-36D-830-03-S3	02779	3000	36	60	3200	1280	69	1175	80 / >0	3	A
SP30SW-18-60D-830-03-S3	02781	3000	60	90	1400	1280	69	1135	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 18W Rev 1 5.20.15

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