SORAA
SIMPLY PERFECT LIGHT

PAR30S 18.5W

OUTPUT RANGE: VIVID SERIES	930 - 1000 lumen
BEAM ANGLE RANGE	9°, 25°, 36°
COLOR TEMPERATURE RANGE	2700K, 3000K
APPLICATION	Halogen replacement for indoor & outdoor applications

230V E27 DIM IR UV

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, 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

CERTIFICATIONS

RoHS, CE

RoHS CE

HIGHLY COMPATIBLE

Narrow spot compatible with Soraa SNAP System accessories

Thermally and geometrically compatible with standard fixtures and suitable for damp locations

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

INTENDED USE AND APPLICATIONS

Intended 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	Operating Temperature	Electrical	Dimming and Flicker
Width: 96mm (3.78")	Minimum: -40°C (ambient)	Wattage: 18.5W	Dimmable to <20%
Height: 82mm (3.23")	Typical: 70°C - 80°C (base)	Power factor: 0.93	Flicker Index: <0.12
Weight: 274g	Maximum: 90°C (base)	Voltage: 230V +/- 23V	Percent Flicker: 28%
		Frequency: 50/60Hz	

DIMENSIONS

96mm
(3.78")

82mm
(3.23")

Base Temperature
Measured Here

COLOR RENDERING

Harmful
UV

Visible Spectrum

Wasteful
IR

Soraa VIVID

Sunlight

Standard LED

No Violet   Cyan gap   Red lack

400   500   600   700   Nanometers

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%

1 m
2 m
3 m
4 m
5 m
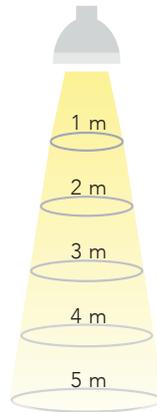
25 DEGREE BEAM

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%
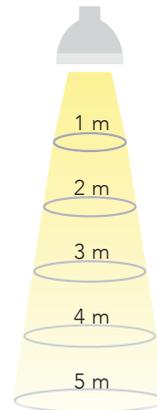
36 DEGREE BEAM

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%

1 m
2 m
3 m
4 m
5 m
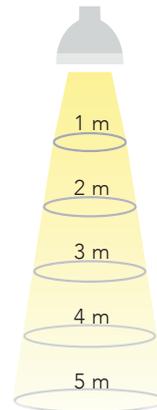
Note: Lux may be calculated by multiplying the peak Intensity of the desired model number by the percentage in the tables above

# SPECIFICATIONS BY MODEL NUMBER* SORAA LED PAR30S 18.5W

Model #	Product Code	CCT (K)	Beam Angle	Field Angle	Peak Intensity	Total Flux (Lm)	Efficacy (Lm/W)	90° Lumens	McA	EEI	SNAP
VIVID SERIES											
SP30SW-18-09D-927-03-S3	02751	2700	9	16	17200	930	50	835	3	A	YES
SP30SW-18-25D-927-03-S3	02753	2700	25	40	5020	930	50	860	3	A	-
SP30SW-18-36D-927-03-S3	02755	2700	36	60	2320	930	50	855	3	A	-
SP30SW-18-09D-930-03-S3	02767	3000	9	16	18500	1000	54	900	3	A	YES
SP30SW-18-25D-930-03-S3	02769	3000	25	40	5400	1000	54	930	3	A	-
SP30SW-18-36D-930-03-S3	02771	3000	36	60	2500	1000	54	920	3	A	-

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
VIVID 2700K	**Rf: 90, Rg: 100, Rfh1: 95**	**Rw: 120**	**CRI: 95, R9: 95**
VIVID 3000K	**Rf: 90, Rg: 100, Rfh1: 95**	**Rw: 120**	**CRI: 95, R9: 95**
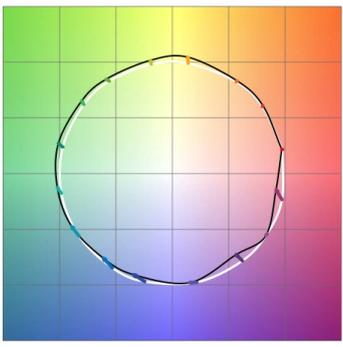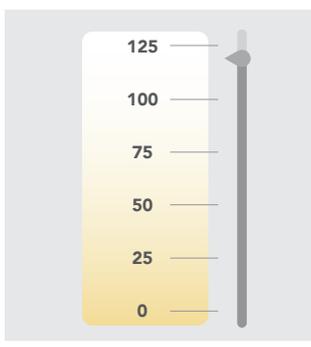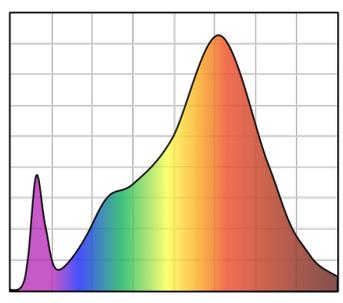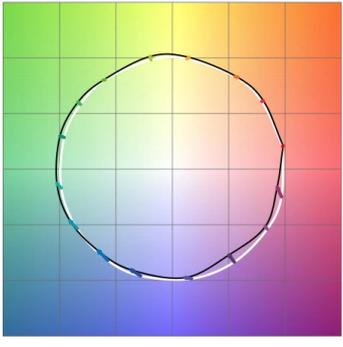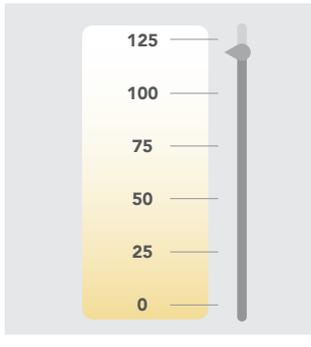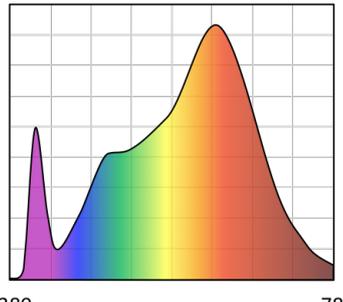
Rf: TM-30 metric measuring color fidelity (whether colors are similar to those under natural light). Rf is a more accurate version of the CRI Ra. Rf is 100 for natural light.

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. Rf 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.