



SORAA LED PAR 38 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

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

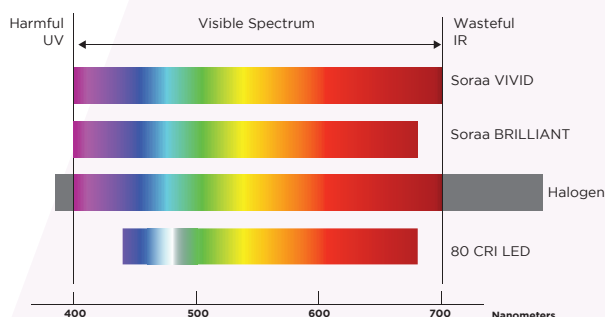
For use in PAR38 compatible recessed downlights, track lighting and other indoor and outdoor applications

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

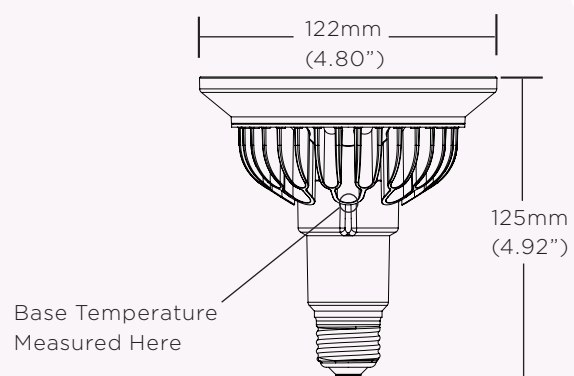
GENERAL SPECIFICATIONS

Form Factor	Operating Temperature	Electrical
Width: 122mm (4.80")	Minimum: -40°C (ambient)	Wattage: 18.5W
Height: 125mm (4.92")	Typical: 70°C - 80°C (base)	Dimmable to <20%
Weight: 305g	Maximum: 90°C (base)	Power factor: 0.95
		Flicker Index < 0.1
		Voltage: 230V +/- 12V
		Percent Flicker: 29%

COLOR RENDERING



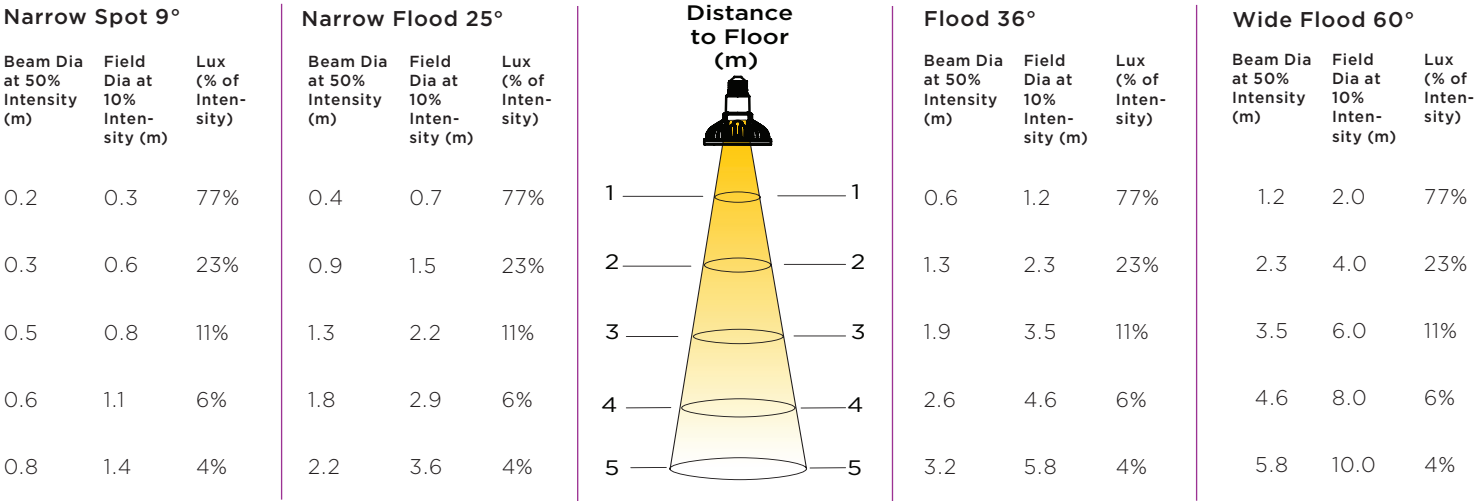
DIMENSIONS



RoHS

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BEAM DIAGRAM



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 (°)	CBCP (cd)	Halogen Equivalent** (Watts)	Total Flux (Lm)	Efficacy (Lm/W)	90 ° Lumens	CRI/R9	White Point (McA)	EEI ***
SORAA VIVID SERIES												
SP38W-18-09D-927-03-S3 ^{SNAP}	02047	2700	9	16	17200	110	930	50	890	95 / 95	3	A
SP38W-18-25D-927-03-S3	02049	2700	25	40	5020	90	930	50	890	95 / 95	3	A
SP38W-18-36D-927-03-S3	02051	2700	36	60	2320	90	930	50	900	95 / 95	3	A
SP38W-18-60D-927-03-S3	02053	2700	60	90	1020	90	930	50	890	95 / 95	3	A
SP38W-18-09D-930-03-S3 ^{SNAP}	02063	3000	9	16	18500	110	1000	54	960	95 / 95	3	A
SP38W-18-25D-930-03-S3	02065	3000	25	40	5400	90	1000	54	960	95 / 95	3	A
SP38W-18-36D-930-03-S3	02067	3000	36	60	2500	90	1000	54	970	95 / 95	3	A
SP38W-18-60D-930-03-S3	02069	3000	60	90	1100	90	1000	54	960	95 / 95	3	A
SP38W-18-09D-940-03-S3 ^{SNAP}	02079	4000	9	16	19240	110	1040	56	995	95 / 95	4	A
SP38W-18-25D-940-03-S3	02081	4000	25	40	5600	90	1040	56	995	95 / 95	4	A
SP38W-18-36D-940-03-S3	02083	4000	36	60	2600	90	1040	56	1005	95 / 95	4	A
SP38W-18-60D-940-03-S3	02085	4000	60	90	1140	90	1040	56	995	95 / 95	4	A
SP38W-18-09D-950-03-S3 ^{SNAP}	02087	5000	9	16	19420	110	1050	57	1005	95 / 90	5	A
SP38W-18-25D-950-03-S3	02089	5000	25	40	5660	90	1050	57	1005	95 / 90	5	A
SP38W-18-36D-950-03-S3	02091	5000	36	60	2620	90	1050	57	1015	95 / 90	5	A
SP38W-18-60D-950-03-S3	02093	5000	60	90	1140	90	1050	57	1005	95 / 90	5	A
SORAA BRILLIANT SERIES												
SP38W-18-09D-827-03-S3 ^{SNAP}	02055	2700	9	16	22000	120	1190	64	1140	80 / >0	3	A
SP38W-18-25D-827-03-S3	02057	2700	25	40	6420	110	1190	64	1140	80 / >0	3	A
SP38W-18-36D-827-03-S3	02059	2700	36	60	2960	110	1190	64	1150	80 / >0	3	A
SP38W-18-60D-827-03-S3	02061	2700	60	90	1300	110	1190	64	1140	80 / >0	3	A
SP38W-18-09D-830-03-S3 ^{SNAP}	02071	3000	9	16	23680	120	1280	69	1225	80 / >0	3	A
SP38W-18-25D-830-03-S3	02073	3000	25	40	6900	110	1280	69	1225	80 / >0	3	A
SP38W-18-36D-830-03-S3	02075	3000	36	60	3200	110	1280	69	1240	80 / >0	3	A
SP38W-18-60D-830-03-S3	02077	3000	60	90	1400	110	1280	69	1225	80 / >0	3	A

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

CCT = Correlated Color Temperature

^{SNAP}SORAA SNAP System Compatible

**Energy Star Minimum

White Point = White Point Accuracy in McA step

***Energy Efficiency Index

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.