

SORAA LED AR111

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



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, 12V AC magnetic and electronic transformers and 12V DC transformers (see www.soraa.com/resources)

INTENDED USE AND APPLICATIONS

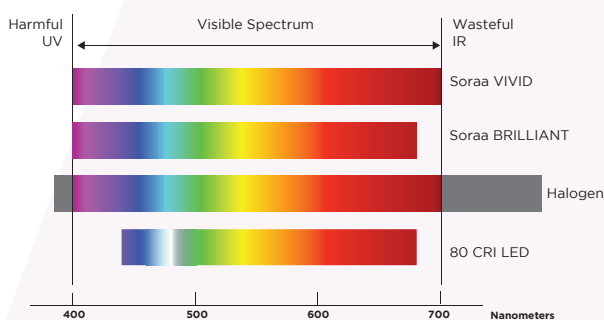
For use in AR111 compatible recessed downlights, track lighting and other indoor and outdoor applications

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

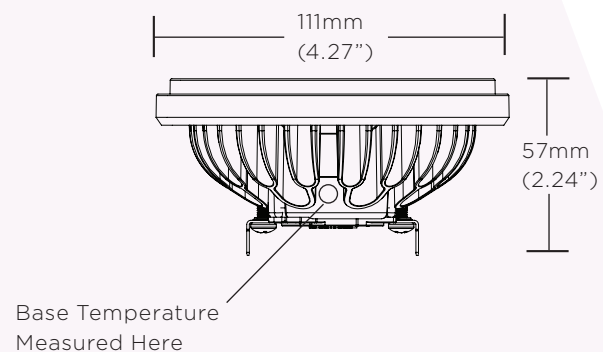
GENERAL SPECIFICATIONS

Form Factor	Operating Temperature	Electrical	
Width: 111mm (4.37")	Minimum: -40°C (ambient)	Wattage: 18.5W	Dimmable to <20%
Height: 57mm (2.24")	Typical: 70°C - 80°C (base)	Power factor: 0.92	Flicker Index < 0.1
Weight: 260g	Maximum: 90°C (base)	Voltage: 12V +/- 1.2V	Percent Flicker: 28%

COLOR RENDERING



DIMENSIONS



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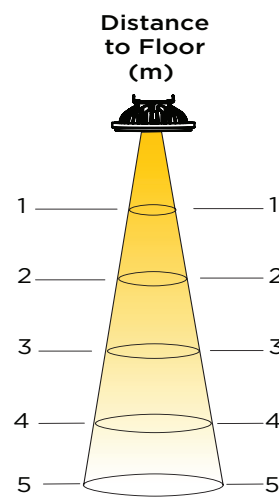
BEAM DIAGRAM

Narrow Spot 9°

Beam Dia at 50% Intensity (m)	Field Dia at 10% Intensity (m)	Lux (% of Intensity)
0.2	0.3	100%
0.3	0.6	25%
0.5	0.8	11%
0.6	1.1	6%
0.8	1.4	4%

Narrow Flood 25°

Beam Dia at 50% Intensity (m)	Field Dia at 10% Intensity (m)	Lux (% of Intensity)
0.4	0.7	100%
0.9	1.5	25%
1.3	2.2	11%
1.8	2.9	6%
2.2	3.6	4%



Flood 36°

Beam Dia at 50% Intensity (m)	Field Dia at 10% Intensity (m)	Lux (% of Intensity)
0.6	1.2	100%
1.3	2.3	25%
1.9	3.5	11%
2.6	4.6	6%
3.2	5.8	4%

Wide Flood 60°

Beam Dia at 50% Intensity (m)	Field Dia at 10% Intensity (m)	Lux (% of Intensity)
1.2	2.0	100%
2.3	4.0	25%
3.5	6.0	11%
4.6	8.0	6%
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	Halogen Equivalent** (Watts)	Total Flux (Lm)	Efficacy (Lm/W)	90 ° Lumens	CRI/R9	White Point (McA)	EEL ***
SORAA VIVID SERIES												
SR111-18-09D-927-03-S3 ^{SNAP}	01025	2700	9	16	22400	75	930	50	TBD	95 / 95	3	A
SR111-18-25D-927-03-S3	01027	2700	25	40	5020	75	930	50	TBD	95 / 95	3	A
SR111-18-36D-927-03-S3	01029	2700	36	60	2320	75	930	50	TBD	95 / 95	3	A
SR111-18-60D-927-03-S3	01031	2700	60	90	1020	75	930	50	TBD	95 / 95	3	A
SR111-18-09D-930-03-S3 ^{SNAP}	01041	3000	9	16	24100	75	1000	54	TBD	95 / 95	3	A
SR111-18-25D-930-03-S3	01043	3000	25	40	5400	75	1000	54	TBD	95 / 95	3	A
SR111-18-36D-930-03-S3	01045	3000	36	60	2500	75	1000	54	TBD	95 / 95	3	A
SR111-18-60D-930-03-S3	01047	3000	60	90	1100	75	1000	54	TBD	95 / 95	3	A
SR111-18-09D-940-03-S3 ^{SNAP}	01057	4000	9	16	25060	75	1040	56	TBD	95 / 95	4	A
SR111-18-25D-940-03-S3	01059	4000	25	40	5600	75	1040	56	TBD	95 / 95	4	A
SR111-18-36D-940-03-S3	01061	4000	36	60	2600	75	1040	56	TBD	95 / 95	4	A
SR111-18-60D-940-03-S3	01063	4000	60	90	1140	75	1040	56	TBD	95 / 95	4	A
SR111-18-09D-950-03-S3 ^{SNAP}	01065	5000	9	16	25300	75	1050	57	TBD	95 / 90	5	A
SR111-18-25D-950-03-S3	01067	5000	25	40	5660	75	1050	57	TBD	95 / 90	5	A
SR111-18-36D-950-03-S3	01069	5000	36	60	2620	75	1050	57	TBD	95 / 90	5	A
SR111-18-60D-950-03-S3	01071	5000	60	90	1140	75	1050	57	TBD	95 / 90	5	A
SORAA BRILLIANT SERIES												
SR111-18-09D-827-03-S3 ^{SNAP}	01033	2700	9	16	28660	100	1190	64	TBD	80 / >0	3	A
SR111-18-25D-827-03-S3	01035	2700	25	40	6420	100	1190	64	TBD	80 / >0	3	A
SR111-18-36D-827-03-S3	01037	2700	36	60	2960	100	1190	64	TBD	80 / >0	3	A
SR111-18-60D-827-03-S3	01039	2700	60	90	1300	100	1190	64	TBD	80 / >0	3	A
SR111-18-09D-830-03-S3 ^{SNAP}	01049	3000	9	16	30840	100	1280	69	TBD	80 / >0	3	A
SR111-18-25D-830-03-S3	01051	3000	25	40	6900	100	1280	69	TBD	80 / >0	3	A
SR111-18-36D-830-03-S3	01053	3000	36	60	3200	100	1280	69	TBD	80 / >0	3	A
SR111-18-60D-830-03-S3	01055	3000	60	90	1400	100	1280	69	TBD	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.

Information & specifications subject to change. SR111 18W Rev 1 Intl 1.30.15

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