



SORAA LED PAR 30 LONG 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 |



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

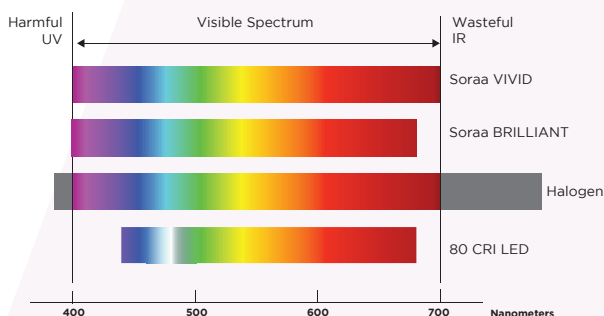
For use in PAR30L compatible recessed downlights, track lighting and other indoor and outdoor applications

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

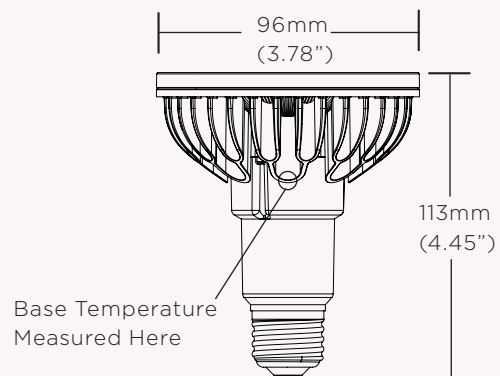
GENERAL SPECIFICATIONS

| Form Factor | Operating Temperature | Electrical | |
|-----------------------|-----------------------------|-----------------------|----------------------|
| Width: 96mm (3.78") | Minimum: -40°C (ambient) | Wattage: 18.5W | Dimmable to <20% |
| Height: 113mm (4.45") | Typical: 70°C - 80°C (base) | Power factor: 0.95 | Flicker Index < 0.1 |
| Weight: 295g | Maximum: 90°C (base) | Voltage: 230V +/- 12V | Percent Flicker: 29% |

COLOR RENDERING



DIMENSIONS



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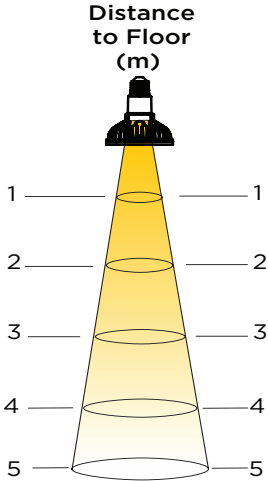
BEAM DIAGRAM

Narrow Spot 9°

| Beam Dia at 50% Intensity (m) | Field Dia at 10% Intensity (m) | Lux (% of Intensity) |
|-------------------------------|--------------------------------|----------------------|
| 0.2 | 0.3 | 77% |
| 0.3 | 0.6 | 23% |
| 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 | 77% |
| 0.9 | 1.5 | 23% |
| 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 | 77% |
| 1.3 | 2.3 | 23% |
| 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 | 77% |
| 2.3 | 4.0 | 23% |
| 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) | EEI *** |
|---|--------------|---------|----------------|-----------------|----------------|------------------------------|-----------------|-----------------|-------------|---------|-------------------|---------|
| SORAA VIVID SERIES | | | | | | | | | | | | |
| SP30LW-18-09D-927-03-S3 ^{SNAP} | 01855 | 2700 | 9 | 16 | 17200 | 110 | 930 | 50 | 890 | 95 / 95 | 3 | A |
| SP30LW-18-25D-927-03-S3 | 01857 | 2700 | 25 | 40 | 5020 | 90 | 930 | 50 | 890 | 95 / 95 | 3 | A |
| SP30LW-18-36D-927-03-S3 | 01859 | 2700 | 36 | 60 | 2320 | 90 | 930 | 50 | 900 | 95 / 95 | 3 | A |
| SP30LW-18-60D-927-03-S3 | 01861 | 2700 | 60 | 90 | 1020 | 90 | 930 | 50 | 890 | 95 / 95 | 3 | A |
| SP30LW-18-09D-930-03-S3 ^{SNAP} | 01871 | 3000 | 9 | 16 | 18500 | 110 | 1000 | 54 | 960 | 95 / 95 | 3 | A |
| SP30LW-18-25D-930-03-S3 | 01873 | 3000 | 25 | 40 | 5400 | 90 | 1000 | 54 | 960 | 95 / 95 | 3 | A |
| SP30LW-18-36D-930-03-S3 | 01875 | 3000 | 36 | 60 | 2500 | 90 | 1000 | 54 | 970 | 95 / 95 | 3 | A |
| SP30LW-18-60D-930-03-S3 | 01877 | 3000 | 60 | 90 | 1100 | 90 | 1000 | 54 | 960 | 95 / 95 | 3 | A |
| SP30LW-18-09D-940-03-S3 ^{SNAP} | 01887 | 4000 | 9 | 16 | 19240 | 110 | 1040 | 56 | 995 | 95 / 95 | 4 | A |
| SP30LW-18-25D-940-03-S3 | 01889 | 4000 | 25 | 40 | 5600 | 90 | 1040 | 56 | 995 | 95 / 95 | 4 | A |
| SP30LW-18-36D-940-03-S3 | 01891 | 4000 | 36 | 60 | 2600 | 90 | 1040 | 56 | 1005 | 95 / 95 | 4 | A |
| SP30LW-18-60D-940-03-S3 | 01893 | 4000 | 60 | 90 | 1140 | 90 | 1040 | 56 | 995 | 95 / 95 | 4 | A |
| SP30LW-18-09D-950-03-S3 ^{SNAP} | 01895 | 5000 | 9 | 16 | 19420 | 110 | 1050 | 57 | 1005 | 95 / 90 | 5 | A |
| SP30LW-18-25D-950-03-S3 | 01897 | 5000 | 25 | 40 | 5660 | 90 | 1050 | 57 | 1005 | 95 / 90 | 5 | A |
| SP30LW-18-36D-950-03-S3 | 01899 | 5000 | 36 | 60 | 2620 | 90 | 1050 | 57 | 1015 | 95 / 90 | 5 | A |
| SP30LW-18-60D-950-03-S3 | 01901 | 5000 | 60 | 90 | 1140 | 90 | 1050 | 57 | 1005 | 95 / 90 | 5 | A |
| SORAA BRILLIANT SERIES | | | | | | | | | | | | |
| SP30LW-18-09D-827-03-S3 ^{SNAP} | 01863 | 2700 | 9 | 16 | 22000 | 120 | 1190 | 64 | 1140 | 80 / >0 | 3 | A |
| SP30LW-18-25D-827-03-S3 | 01865 | 2700 | 25 | 40 | 6420 | 110 | 1190 | 64 | 1140 | 80 / >0 | 3 | A |
| SP30LW-18-36D-827-03-S3 | 01867 | 2700 | 36 | 60 | 2960 | 110 | 1190 | 64 | 1150 | 80 / >0 | 3 | A |
| SP30LW-18-60D-827-03-S3 | 01869 | 2700 | 60 | 90 | 1300 | 110 | 1190 | 64 | 1140 | 80 / >0 | 3 | A |
| SP30LW-18-09D-830-03-S3 ^{SNAP} | 01879 | 3000 | 9 | 16 | 23680 | 120 | 1280 | 69 | 1225 | 80 / >0 | 3 | A |
| SP30LW-18-25D-830-03-S3 | 01881 | 3000 | 25 | 40 | 6900 | 110 | 1280 | 69 | 1225 | 80 / >0 | 3 | A |
| SP30LW-18-36D-830-03-S3 | 01883 | 3000 | 36 | 60 | 3200 | 110 | 1280 | 69 | 1240 | 80 / >0 | 3 | A |
| SP30LW-18-60D-830-03-S3 | 01885 | 3000 | 60 | 90 | 1400 | 110 | 1280 | 69 | 1225 | 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 and specifications subject to change. SP30LW 18W Rev 1 5.15.15
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