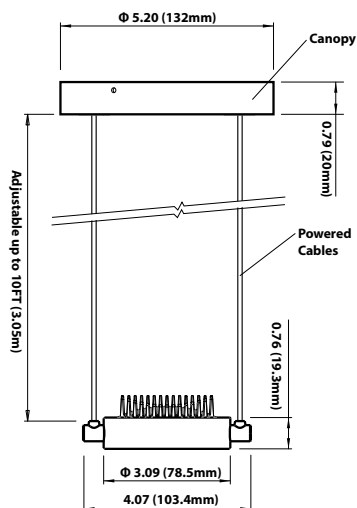


| | |
|-------------|------|
| Project | Type |
| Client | Date |
| Part Number | |

SORAA[®] arc[™]

2" (50 mm) Integrated LED Pendant
VIVID 95 CRI, 95 R9

The Soraa Arc[™] series pendant combines elegant design with Soraa's unique quality of light to create a dynamic and versatile solution for retail, hospitality, and residential applications. The Soraa Arc gets its name from its unique die-cast curved heat sink, which features a form carefully engineered for optimal thermal performance. Soraa Arc is compatible with Soraa SNAP[™], which allows you to shape beams, shift color, and more - in a snap.



Features and Specifications

Soraa LED

Soraa Full Spectrum integral LED Light Engine available in 2700K, 3000K, and 4000K with 95 CRI and 95 R9. IR and UV free.

Soraa Optics

Soraa optic technology with exceptional beam control and smooth uniform light distribution. Both 10° and 15° beam versions are compatible with Soraa SNAP accessories.

Construction and Finish

Two Axes of rotation provide full aiming options: Canopy rotates 360°; light head rotates 95°/ 95°. Light head is made of die cast aluminum. Canopy mounts to standard 4" junction box. Durable matte powder coat finish.

Electrical

Fully integral LED driver
Phase dimmable power supply
Universal 120V-277V
Frequency: 50/60Hz
Power Factor: 0.93
Wattage: 11, 18

Dimming and Flicker

Dimmable to <1%
Percent Flicker: < 30% (per California CEC Title 24 JA8)

Applications

Suitable for damp or dry locations. For interior use only.

Compliance

cULus Listed. FCC CFR Title 47 Part 15 Class B compliant.

Warranty

Five year warranty. Consult website for current information.

Operating Temperature

Minimum -40° C, 25° C typical.



No IR



No UV



Full Spectrum



Natural White



Dim



Soraa SNAP Compatible

Build Your Fixture

Sample Number: ARP50-25D-927-U-W

| Series | Beam & Wattage | CCT | Voltage | Finish |
|--------------------------------------|-----------------------------------|------------------------|-----------------------------|---------------------------|
| ARP50 Soraa Arc Pendant, 50mm | 10D 10° Narrow Spot - 11W | 927 2700K 95CRI | U 120-277V Universal | B Black |
| | 15D 15° Narrow Spot - 18W | 930 3000K 95CRI | | W White |
| | 25D 25° Narrow Flood - 18W | 940 4000K 95CRI | | A Aluminum |
| | 36D 36° Flood - 18W | | | C Custom Available |

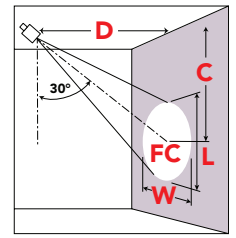
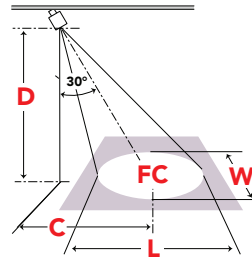
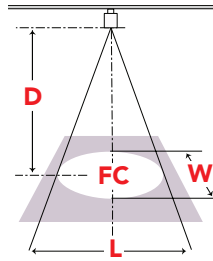
Photometrics - Soraa Arc™ 2" (50mm)

Aiming Angles

L and W refer to outer points where candle-power drops to 50% of maximum. FC refers to initial footcandles at the center of the beam. Data is shown for 3000K, for 2700K multiply FC by 0.95, for 4000K by 1.05.

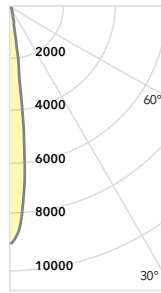
Key

L Beam Distance
D Distance
W Beam Width
FC Footcandles
C Distance to Center Beam



Spot 10°

| W | CCT | Lm | CBCP |
|----|------|-----|----------|
| 11 | 2700 | 583 | 8,500 cd |
| 11 | 3000 | 616 | 8,970 cd |
| 11 | 4000 | 648 | 9,450 cd |



0° Horizontal

| Distance (ft) | | Beam (ft) | |
|---------------|-----|-----------|-----|
| D | FC | L | W |
| 6 | 243 | 1.3 | 1.2 |
| 8 | 138 | 1.7 | 1.7 |
| 10 | 89 | 2.1 | 2.1 |
| 12 | 147 | 2.0 | 2.0 |

30° Horizontal

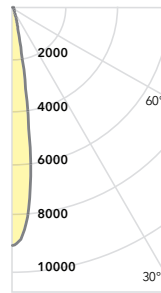
| Distance (ft) | | Beam (ft) | |
|---------------|-----|-----------|---------|
| D | C | FC | L W |
| 6 | 3.7 | 161 | 1.6 1.4 |
| 8 | 4.8 | 93 | 2.2 1.9 |
| 10 | 5.9 | 59 | 2.7 2.3 |
| 12 | 6.9 | 42 | 3.2 2.8 |

30° Vertical

| Distance (ft) | | Beam (ft) | |
|---------------|-----|-----------|---------|
| D | C | FC | L W |
| 2 | 3.7 | 313 | 1.4 0.7 |
| 3 | 5.4 | 142 | 2.1 1.0 |
| 4 | 7.0 | 82 | 2.7 1.4 |
| 5 | 8.6 | 52 | 3.4 1.7 |

Spot 15°

| W | CCT | Lm | CBCP |
|----|------|------|----------|
| 18 | 2700 | 929 | 8,070 cd |
| 18 | 3000 | 1003 | 8,710 cd |
| 18 | 4000 | 1095 | 9,510 cd |



0° Horizontal

| Distance (ft) | | Beam (ft) | |
|---------------|-----|-----------|-----|
| D | FC | L | W |
| 6 | 223 | 1.6 | 1.6 |
| 8 | 126 | 2.1 | 2.1 |
| 10 | 81 | 2.6 | 2.7 |
| 12 | 57 | 3.1 | 3.1 |

30° Horizontal

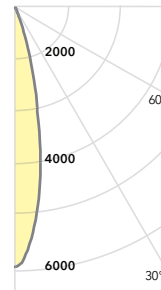
| Distance (ft) | | Beam (ft) | |
|---------------|-----|-----------|---------|
| D | C | FC | L W |
| 6 | 3.7 | 149 | 2.1 1.8 |
| 8 | 4.8 | 85 | 2.8 2.3 |
| 10 | 5.9 | 54 | 3.4 2.9 |
| 12 | 7.0 | 39 | 4.1 3.5 |

30° Vertical

| Distance (ft) | | Beam (ft) | |
|---------------|-----|-----------|---------|
| D | C | FC | L W |
| 2 | 3.7 | 304 | 1.7 0.9 |
| 3 | 5.4 | 139 | 2.5 1.3 |
| 4 | 7.1 | 78 | 3.3 1.8 |
| 5 | 8.7 | 50 | 4.1 2.1 |

Narrow Flood 25°

| W | CCT | Lm | CBCP |
|----|------|-------|----------|
| 18 | 2700 | 929 | 5,380 cd |
| 18 | 3000 | 1,003 | 5,800 cd |
| 18 | 4000 | 1,095 | 6,340 cd |



0° Horizontal

| Distance (ft) | | Beam (ft) | |
|---------------|-----|-----------|-----|
| D | FC | L | W |
| 6 | 151 | 2.2 | 2.2 |
| 8 | 86 | 2.9 | 3.0 |
| 10 | 56 | 3.6 | 3.6 |
| 12 | 39 | 4.3 | 4.3 |

30° Horizontal

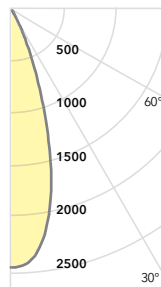
| Distance (ft) | | Beam (ft) | |
|---------------|-----|-----------|---------|
| D | C | FC | L W |
| 6 | 3.6 | 100 | 2.9 2.5 |
| 8 | 4.8 | 57 | 3.8 3.3 |
| 10 | 6.0 | 38 | 4.6 4.1 |
| 12 | 7.1 | 26 | 5.5 4.9 |

30° Vertical

| Distance (ft) | | Beam (ft) | |
|---------------|-----|-----------|---------|
| D | C | FC | L W |
| 2 | 3.9 | 220 | 2.1 1.2 |
| 3 | 5.7 | 99 | 3.1 1.8 |
| 4 | 7.5 | 57 | 4.1 2.4 |
| 5 | 9.3 | 37 | 5.1 2.9 |

Flood 36°

| W | CCT | Lm | CBCP |
|----|------|-------|----------|
| 18 | 2700 | 929 | 2,590 cd |
| 18 | 3000 | 1,003 | 2,790 cd |
| 18 | 4000 | 1,095 | 3,050 cd |



0° Horizontal

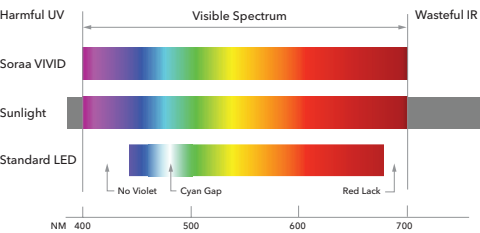
| Distance (ft) | | Beam (ft) | |
|---------------|----|-----------|-----|
| D | FC | L | W |
| 6 | 72 | 3.3 | 3.2 |
| 8 | 42 | 4.3 | 4.2 |
| 10 | 27 | 5.3 | 5.3 |
| 12 | 19 | 6.2 | 6.4 |

30° Horizontal

| Distance (ft) | | Beam (ft) | |
|---------------|-----|-----------|---------|
| D | C | FC | L W |
| 6 | 3.8 | 52 | 3.8 3.5 |
| 8 | 5.0 | 30 | 5.0 4.6 |
| 10 | 6.1 | 20 | 6.2 5.5 |
| 12 | 7.1 | 14 | 7.5 6.6 |

30° Vertical

| Distance (ft) | | Beam (ft) | |
|---------------|-----|-----------|---------|
| D | C | FC | L W |
| 2 | 4.2 | 140 | 2.1 1.5 |
| 3 | 6.0 | 63 | 3.2 2.2 |
| 4 | 7.7 | 36 | 4.2 3.0 |
| 5 | 9.3 | 23 | 5.1 3.6 |



Soraa has engineered the perfect balance between color rendering and white rendering. Soraa's core technology uses a violet LED emitter as the basis for full spectrum light. This allows both Vivid™ color rendering and Natural White™ white rendering, which creates whiteness by exciting fluorescing agents with violet radiation, without the harmful effect of UV.

| CCT | CRI | R9 | Rf | Rg | Rfh1 | Rw | McA |
|------|-----|----|----|-----|------|-----|-----|
| 2700 | 95 | 95 | 90 | 100 | 95 | 120 | 3 |
| 3000 | 95 | 95 | 90 | 100 | 95 | 120 | 3 |
| 4000 | 95 | 95 | 90 | 100 | 95 | 70 | 4 |

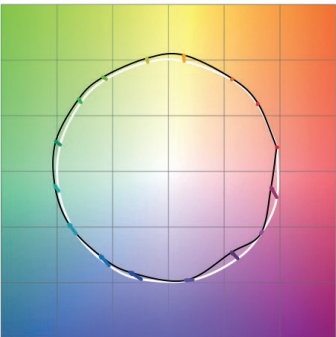
Rf: The TM-30 metric for color fidelity (similarity to colors under natural light), a more accurate version of the CRI Ra. Rf is 100 for natural light.

Rg: The TM-30 metric for color gamut (whether colors are more saturated than under natural light). Rg is 100 for natural light.

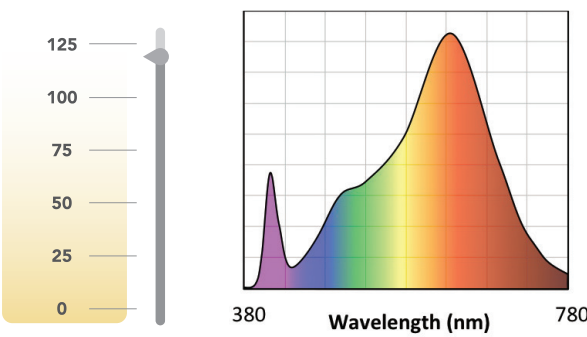
Rfh1: The TM-30 metric for color fidelity for red tones. Rfh1 is a more accurate version of the CRI R9. Rfh1 is 100 for natural light.

Rw: The Soraa-developed metric for white fidelity. Rw measures the magnitude of excitation of whitening agents within white materials. Rw is 100 for natural light.

2700K

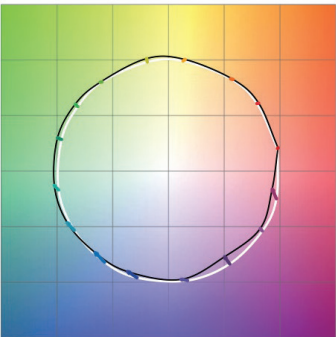


Rf: 90, Rg: 100, Rfh1: 95

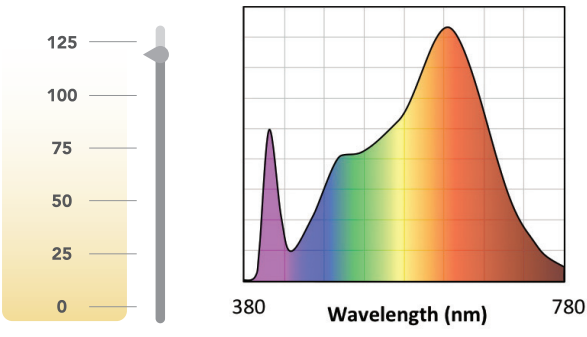


Rw: 120 CRI: 95, R9: 95

3000K

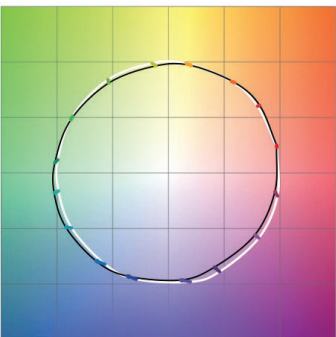


Rf: 90, Rg: 100, Rfh1: 95

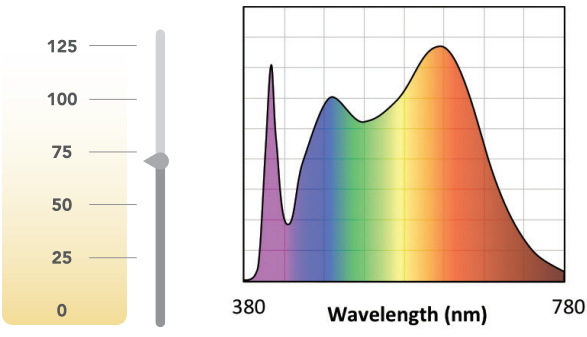


Rw: 120 CRI: 95, R9: 95

4000K



Rf: 90, Rg: 100, Rfh1: 95



Rw: 70 CRI: 95, R9: 95