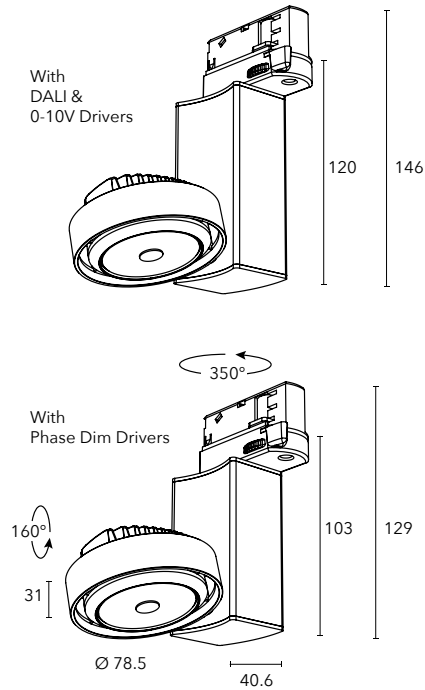


The Soraa Arc™ Track light combines elegant design with Soraa's unique quality of light to create a dynamic and versatile solution for retail, hospitality, and residential applications. Soraa Arc gets its name from its unique die-cast curved heat sink, which features a form carefully engineered for optimal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



### Soraa VIVID™ 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. The 10° and 15° beam versions are compatible with Soraa SNAP System accessories.

### Construction and Finish

Light engine is made of die cast aluminium, transformer case from extruded aluminum. Durable satin finish. Custom colors available. Tilt: 160°, rotation: 350°.

### Operating Temperature

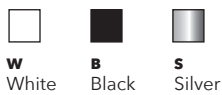
Minimum -40°C, 25°C typical.

### Electrical

220-240VAC integrated electronic constant current LED driver (included).  
Frequency: 50/60Hz  
Power Factor: 0.93  
Wattage: 11W, 18W  
Protection: Class 1

### Dimming

Dimmable to <10%\*  
Triac, ELV, 0-10V, DALI, and local dimming options available  
Single-phase neutral is required when using two dimmers for different dimming levels  
Visit [www.soraa.com](http://www.soraa.com) for details



\* see [www.soraa.com/resources/arc\\_compatibility](http://www.soraa.com/resources/arc_compatibility)

### Applications

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

### Accessories

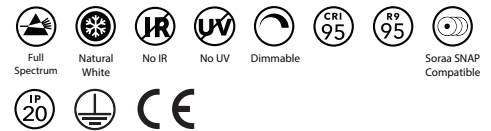
Luminaire accommodates both Arc accessories and Soraa SNAP System simultaneously.

### Compliance

CE Compliant. Rated for damp locations.

### Warranty

Five year warranty. See [www.soraa.com](http://www.soraa.com).



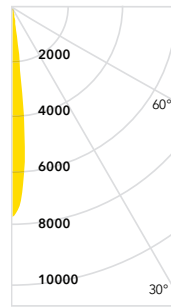
## Build Your Luminaire Sample Number: ART50-25D-927-E-G-W-S3

| Series                             | Beam & Wattage                    | CCT  | Driver  | Track Compatibility   | Finish   | Region             |
|------------------------------------|-----------------------------------|--|---|---|--|--------------------|
| <b>ART50</b> Soraa Arc Track, 50mm | <b>10D</b> 10° Narrow Spot - 11W  | <b>927</b> 2700K<br><b>930</b> 3000K<br><b>940</b> 4000K | <b>E</b> 220-240VAC Phase Dim<br><b>ELD</b> 220-240VAC Local Dim<br><br><b>Data Capable</b><br><b>ED</b> 220-240VAC DALI<br><b>E10</b> 220-240VAC 0-10V | <b>G</b> 3 circuit 3C1N (Nordic)<br><b>G1</b> 1 Circuit 1C1N (Nordic)<br><b>GC</b> 3 circuit with data 3C1N+D (Nordic)<br><b>GS</b> 3 circuit with data, 3C1N+D (Stucchi)<br><b>GE</b> 3 circuit with data, 3C1N+D (ERCO)<br><b>EUGD</b> 3 Circuit with data, 3C1N+D (Eutrac) | <b>B</b> Black<br><b>W</b> White<br><b>S</b> Silver<br><b>C</b> Custom | <b>S3</b> EU, APAC |
|                                    | <b>15D</b> 15° Narrow Spot - 18W  |  |   |   |  |                    |
|                                    | <b>25D</b> 25° Narrow Flood - 18W |  |   |   |  |                    |
|                                    | <b>36D</b> 36° Flood - 18W        |  |   |   |  |                    |

# Photometrics - Soraa Arc™ 50mm

Data is shown for 3000K, for 2700K multiply Lux by 0.95, for 4000K by 1.04.

## Narrow Spot 10°



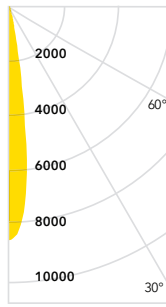
| W  | CCT  | Lm  | CBCP    |
|----|------|-----|---------|
| 11 | 2700 | 505 | 7360 cd |
| 11 | 3000 | 535 | 7800 cd |
| 11 | 4000 | 555 | 8090 cd |

### Candelas at Nadir

|     |      |
|-----|------|
| 0°  | 8139 |
| 5°  | 5415 |
| 15° | 248  |
| 25° | 91   |
| 35° | 54   |
| 45° | 25   |



## Spot 15°



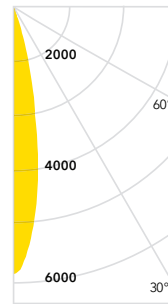
| W  | CCT  | Lm  | CBCP    |
|----|------|-----|---------|
| 18 | 2700 | 880 | 7650 cd |
| 18 | 3000 | 930 | 8080 cd |
| 18 | 4000 | 965 | 8380 cd |

### Candelas at Nadir

|     |      |
|-----|------|
| 0°  | 8165 |
| 5°  | 6573 |
| 15° | 628  |
| 25° | 151  |
| 35° | 87   |
| 45° | 46   |



## Narrow Flood 25°

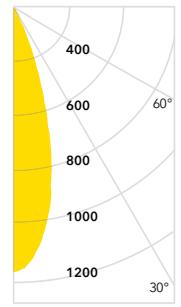


| W  | CCT  | Lm   | CBCP    |
|----|------|------|---------|
| 18 | 2700 | 950  | 5510 cd |
| 18 | 3000 | 1000 | 5800 cd |
| 18 | 4000 | 1040 | 6030 cd |

### Candelas at Nadir

|     |      |
|-----|------|
| 0°  | 5870 |
| 5°  | 4970 |
| 15° | 1562 |
| 25° | 128  |
| 35° | 37   |
| 45° | 25   |

## Flood 36°



| W  | CCT  | Lm   | CBCP    |
|----|------|------|---------|
| 18 | 2700 | 950  | 2560 cd |
| 18 | 3000 | 1000 | 2700 cd |
| 18 | 4000 | 1040 | 2800 cd |

### Candelas at Nadir

|     |      |
|-----|------|
| 0°  | 2771 |
| 5°  | 2683 |
| 15° | 1627 |
| 25° | 408  |
| 35° | 82   |
| 45° | 32   |

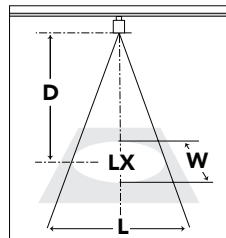
## Aiming Angles

L and W refer to outer points where lux drops to 50% of maximum. LX refers to initial lux at the center of the beam.

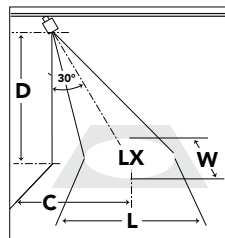
Key (distances in metres)

- L** Beam Distance
- D** Distance
- W** Beam Width
- LX** Lux
- C** Distance to Center Beam

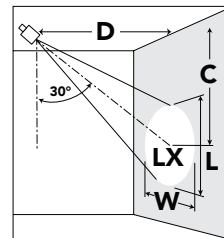
### 0° Horizontal



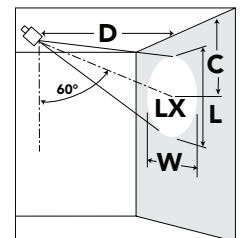
### 30° Horizontal



### 30° Vertical



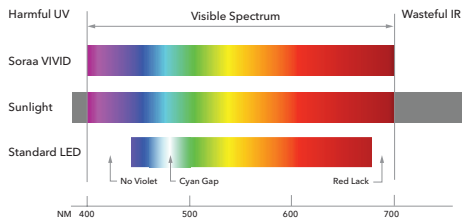
### 60° Vertical



|                              | D   | LX   | L   | W   | D   | C   | LX   | L   | W   | D   | C   | LX   | L   | W   | D   | C   | LX    | L   | W   |
|------------------------------|-----|------|-----|-----|-----|-----|------|-----|-----|-----|-----|------|-----|-----|-----|-----|-------|-----|-----|
| <b>Narrow Spot 10° (11W)</b> | 1.8 | 2400 | 0.4 | 0.4 | 1.8 | 1.1 | 1593 | 1.6 | 1.4 | 0.6 | 1.1 | 3089 | 1.4 | 0.7 | 0.6 | 0.4 | 13197 | 0.2 | 0.5 |
|                              | 2.4 | 1367 | 0.5 | 0.5 | 2.4 | 1.5 | 915  | 2.2 | 1.9 | 0.9 | 1.6 | 1399 | 2.1 | 1.0 | 0.9 | 0.6 | 6243  | 0.2 | 0.7 |
|                              | 3.0 | 883  | 0.6 | 0.6 | 3.0 | 1.8 | 581  | 2.7 | 2.3 | 1.2 | 2.1 | 807  | 2.7 | 1.4 | 1.2 | 0.8 | 3552  | 0.3 | 1.0 |
|                              | 3.7 | 624  | 0.8 | 0.8 | 3.7 | 2.1 | 420  | 3.2 | 2.8 | 1.5 | 2.6 | 517  | 3.4 | 1.7 | 1.5 | 1.0 | 2282  | 0.4 | 1.2 |
| <b>Spot 15°</b>              | 1.8 | 2433 | 0.5 | 0.5 | 1.8 | 1.1 | 1625 | 2.1 | 1.8 | 0.6 | 1.1 | 3305 | 1.7 | 0.9 | 0.6 | 0.4 | 13713 | 0.2 | 0.6 |
|                              | 2.4 | 1367 | 0.6 | 0.6 | 2.4 | 1.5 | 926  | 2.8 | 2.3 | 0.9 | 1.6 | 1507 | 2.5 | 1.3 | 0.9 | 0.6 | 6361  | 0.3 | 0.9 |
|                              | 3.0 | 883  | 0.8 | 0.8 | 3.0 | 1.8 | 592  | 3.4 | 2.9 | 1.2 | 2.2 | 850  | 3.3 | 1.8 | 1.2 | 0.8 | 3606  | 0.4 | 1.2 |
|                              | 3.7 | 614  | 0.9 | 0.9 | 3.7 | 2.1 | 420  | 4.1 | 3.5 | 1.5 | 2.7 | 549  | 4.1 | 2.1 | 1.5 | 1.0 | 2325  | 0.5 | 1.5 |
| <b>Narrow Flood 25°</b>      | 1.8 | 1765 | 0.7 | 0.7 | 1.8 | 1.1 | 1173 | 2.9 | 2.5 | 0.6 | 1.2 | 2573 | 2.1 | 1.2 | 0.6 | 0.4 | 10150 | 0.3 | 0.9 |
|                              | 2.4 | 1001 | 0.9 | 0.9 | 2.4 | 1.5 | 667  | 3.8 | 3.3 | 0.9 | 1.7 | 1163 | 3.1 | 1.8 | 0.9 | 0.6 | 4618  | 0.4 | 1.3 |
|                              | 3.0 | 657  | 1.1 | 1.1 | 3.0 | 1.8 | 441  | 4.6 | 4.1 | 1.2 | 2.3 | 667  | 4.1 | 2.4 | 1.2 | 0.8 | 2626  | 0.6 | 1.7 |
|                              | 3.7 | 463  | 1.3 | 1.3 | 3.7 | 2.2 | 301  | 5.5 | 4.9 | 1.5 | 2.8 | 431  | 5.1 | 2.9 | 1.5 | 0.9 | 1679  | 0.7 | 2.1 |
| <b>Flood 36°</b>             | 1.8 | 840  | 1.0 | 1.0 | 1.8 | 1.2 | 614  | 3.8 | 3.5 | 0.6 | 1.3 | 1636 | 2.1 | 1.5 | 0.6 | 0.4 | 5274  | 0.4 | 1.2 |
|                              | 2.4 | 484  | 1.3 | 1.3 | 2.4 | 1.5 | 344  | 5.0 | 4.6 | 0.9 | 1.8 | 732  | 3.2 | 2.2 | 0.9 | 0.6 | 2379  | 0.6 | 1.8 |
|                              | 3.0 | 312  | 1.6 | 1.6 | 3.0 | 1.9 | 226  | 6.2 | 5.5 | 1.2 | 2.3 | 420  | 4.2 | 3.0 | 1.2 | 0.8 | 1356  | 0.8 | 2.4 |
|                              | 3.7 | 226  | 1.9 | 1.9 | 3.7 | 2.2 | 161  | 7.5 | 6.6 | 1.5 | 2.8 | 269  | 5.1 | 3.6 | 1.5 | 1.0 | 883   | 0.9 | 2.9 |

# Soraa Arc™ Color and Whiteness Rendering

| 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   |



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.

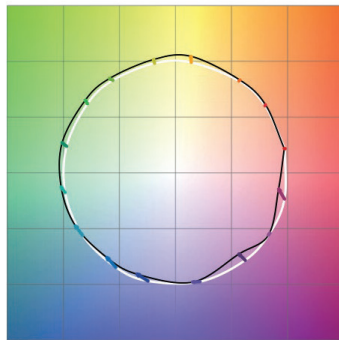
**Rf:** The TM-30 metric for color fidelity (similarity to colors under natural light), a more accurate version of the CRI Ra. Rf is 100 for natural light.

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

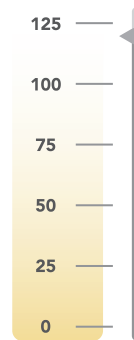
**Rfh1:** The TM-30 metric for color fidelity for red tones. Rfh1 is a more accurate version of the CRI R9. Rfh1 is 100 for natural light.

**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.

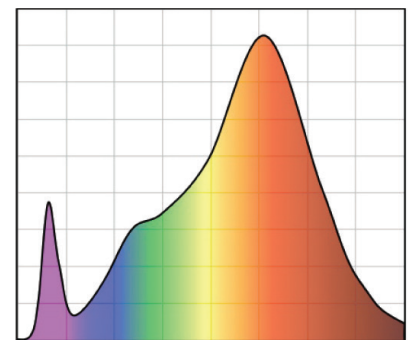
## 2700K



Rf: 90, Rg: 100, Rfh1: 95

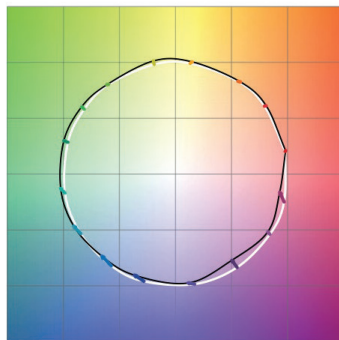


Rw: 120

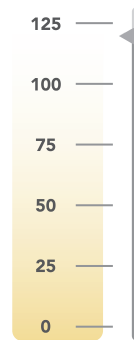


CRI: 95, R9: 95

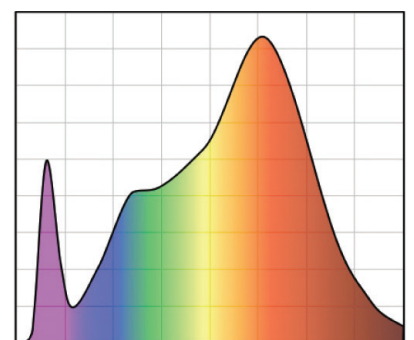
## 3000K



Rf: 90, Rg: 100, Rfh1: 95

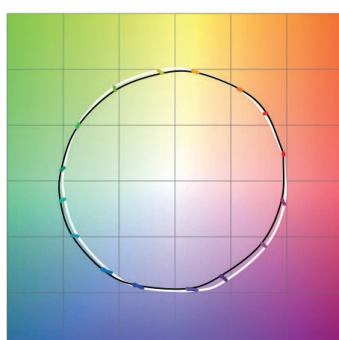


Rw: 120

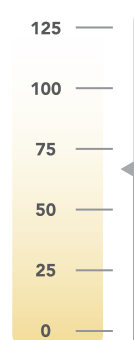


CRI: 95, R9: 95

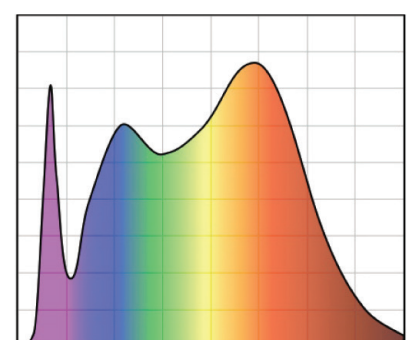
## 4000K



Rf: 90, Rg: 100, Rfh1: 95



Rw: 70



CRI: 95, R9: 95