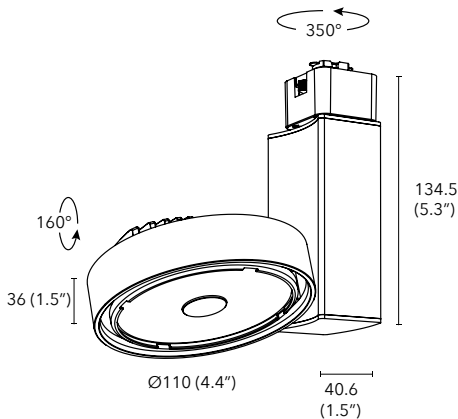


# 100mm (4") LED Track Light - 120VAC

**SORAA** arc™

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 the form of its unique die-cast curved heat sink, which is 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 9° beam version is compatible with Soraa SNAP 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°.

## Electrical

120-277VAC integrated LED electronic constant current driver (included)  
Frequency: 50/60Hz  
Power Factor: 0.93  
Wattage: 20W

## Dimming

Dimmable to <10%\*  
Triac, ELV, 0-10V dimming 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

## Operating Temperature

Minimum -40°C, 25°C typical.

## Applications

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

## Accessories

Luminaire accommodates both Arc accessories and the Soraa SNAP System simultaneously.

## Compliance

cULus Listed. Damp location rated. FCC CFR Title 47 Part 15 Class B compliant. NOM compliant.

## Warranty

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



**W**  
White



**B**  
Black



**S**  
Silver



Full Spectrum



Natural White



No IR



No UV



Dimmable



95



95



Soraa SNAP Compatible



IP 20

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

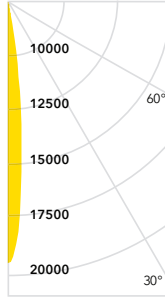
## Build Your Luminaire Sample Number: ART100-09D-927-U-H-W

Series	Beam & Wattage	CCT	Driver	Track Compatibility	Finish
<b>ART100</b> Soraa Arc Track, 100mm	<b>10D</b> 9° Narrow Spot - 11W ☺ <b>25D</b> 25° Narrow Flood - 18W <b>36D</b> 36° Flood - 18W <b>60D</b> 60° Flood - 18W	<b>927</b> 2700K <b>930</b> 3000K <b>940</b> 4000K	<b>U</b> 120-277VAC Triac & ELV only at 120VAC <b>U10</b> 0-10V at 120-277VAC for EU2D option <b>ULD</b> Local dim at 120-277VAC	<b>H</b> Halo style <b>J</b> Juno style <b>L</b> Lightolier style <b>EU2D</b> Eutrac 99-779 0-10V dim <b>EU2</b> Eutrac 99-779 Phase dim <b>G</b> Global Adapter (not UL certified)	<b>B</b> Black <b>W</b> White <b>S</b> Silver <b>C</b> Custom

# Photometrics - Soraa Arc™ 100mm (4") - NA

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

## Narrow Spot 9°

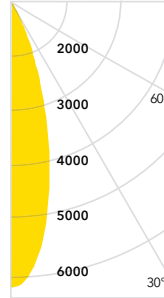


W	CCT	Lm	CBCP
20	2700	950	17500 cd
20	3000	1000	18500 cd
20	4000	1040	19240 cd

### Candelas at Nadir

0°	20732
5°	9736
15°	437
25°	171
35°	106
45°	48

## Narrow Flood 25°

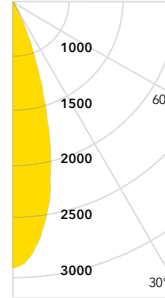


W	CCT	Lm	CBCP
20	2700	995	5770 cd
20	3000	1050	6090 cd
20	4000	1090	6320 cd

### Candelas at Nadir

0°	5689
5°	4891
15°	1558
25°	165
35°	52
45°	36

## Flood 36°

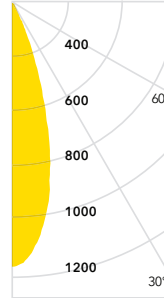


W	CCT	Lm	CBCP
20	2700	995	2680 cd
20	3000	1050	2830 cd
20	4000	1090	2940 cd

### Candelas at Nadir

0°	2939
5°	2759
15°	1608
25°	427
35°	93
45°	46

## Wide Flood 60°



W	CCT	Lm	CBCP
20	2700	995	1090 cd
20	3000	1050	1150 cd
20	4000	1090	1190 cd

### Candelas at Nadir

0°	958
5°	953
15°	905
25°	701
35°	342
45°	108



Soraa SNAP  
Compatible

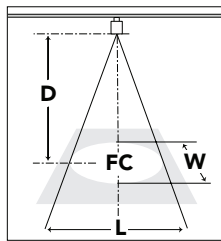
## Aiming Angles

L and W refer to outer points where footcandles drop to 50% of maximum. FC refers to initial footcandles at the center of the beam.

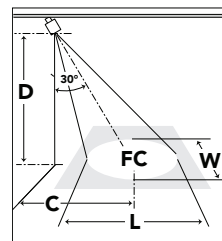
Key (Distances in feet)

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

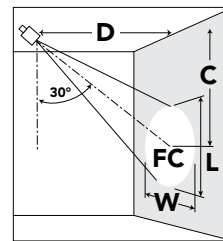
### 0° Horizontal



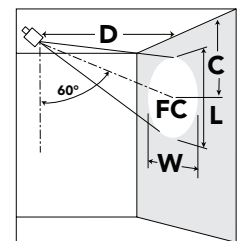
### 30° Horizontal



### 30° Vertical



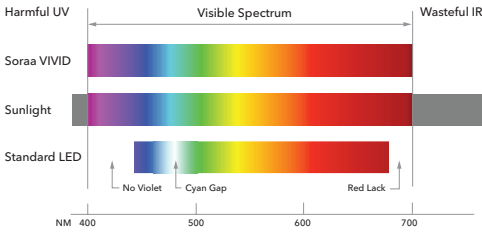
### 60° Vertical



	D	FC	L	W	D	C	FC	L	W	D	C	FC	L	W	D	C	FC	L	W
<b>Narrow Spot 9°</b>	6	556	1.0	1.0	6	3.7	380	1.3	1.1	2	3.7	650	1.2	0.7	2	1.4	2766	0.5	0.4
	8	322	1.3	1.3	8	4.8	213	1.7	1.5	3	5.4	297	1.8	1.0	3	2.0	1379	0.7	0.6
	10	207	1.6	1.6	10	5.9	136	2.2	1.9	4	7.0	171	2.4	1.3	4	2.7	807	0.9	0.8
	12	145	2.0	2.0	12	6.9	97	2.5	2.2	5	8.6	111	3.0	1.6	5	3.3	530	1.1	1.0
<b>Narrow Flood 25°</b>	6	157	2.2	2.2	6	3.7	105	2.9	2.5	2	3.9	229	2.1	1.3	2	1.3	915	1.0	0.9
	8	88	3.0	3.0	8	4.8	60	3.8	3.4	3	5.7	103	3.2	1.9	3	2.0	416	1.4	1.3
	10	57	3.7	3.7	10	6.0	39	4.6	4.2	4	7.5	58	4.3	2.5	4	2.6	236	1.9	1.7
	12	40	4.4	4.4	12	7.1	27	5.6	4.9	5	9.2	39	5.2	3.1	5	3.2	152	2.4	2.1
<b>Flood 36°</b>	6	82	3.2	3.2	6	3.8	57	3.8	3.5	2	4.2	151	2.2	1.6	2	1.4	503	1.3	1.2
	8	46	4.2	4.2	8	5.0	32	5.0	4.6	3	5.9	68	3.3	2.3	3	2.1	226	1.9	1.8
	10	30	5.3	5.3	10	6.1	21	6.3	5.8	4	7.6	38	4.4	3.1	4	2.7	128	2.6	2.3
	12	21	6.3	6.3	12	7.1	15	7.5	6.9	5	9.1	25	5.5	3.8	5	3.3	83	3.2	2.9
<b>Wide Flood 60°</b>	6	27	5.8	5.8	6	4.3	23	5.0	5.3	2	4.4	96	2.0	1.9	2	1.7	200	1.7	1.9
	8	16	7.5	7.5	8	5.3	13	6.3	7.1	3	5.9	44	2.9	2.9	3	2.4	90	2.5	2.7
	10	10	9.5	9.5	10	6.1	9	7.8	8.8	4	7.2	24	3.9	3.7	4	3.2	51	3.4	3.7
	12	7	10.5	10.5	12	6.7	6	9.6	10.1	5	8.3	16	5.5	3.8	5	3.9	33	4.1	4.5

# 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.

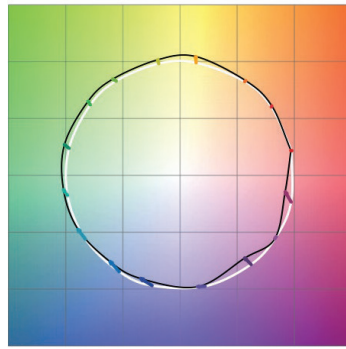
**Rf:** The TM-30 metric for color fidelity (similarity to colors under natural light), a more accurate version of the CRI Ra. Rf is 100 for natural light.

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

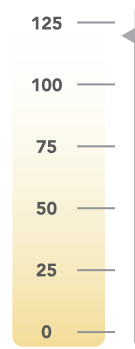
**Rfh1:** The TM-30 metric for color fidelity for red tones. Rfh1 is a more accurate version of the CRI R9. Rfh1 is 100 for natural light.

**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.

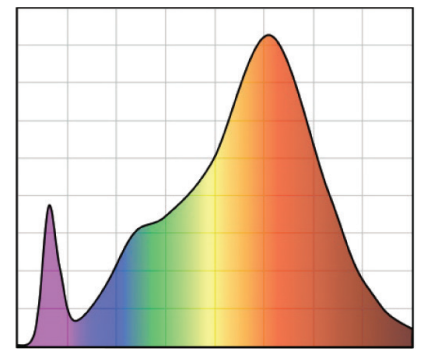
## 2700K



Rf: 90, Rg: 100, Rfh1: 95

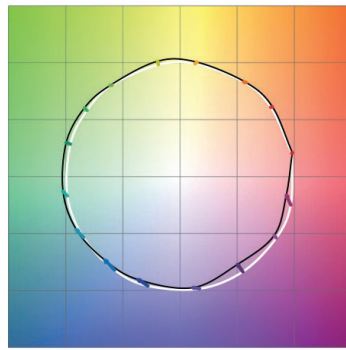


Rw: 120

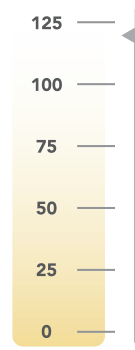


CRI: 95, R9: 95

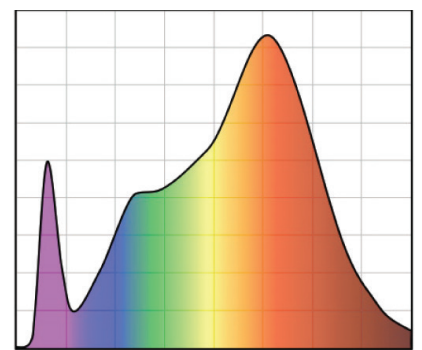
## 3000K



Rf: 90, Rg: 100, Rfh1: 95

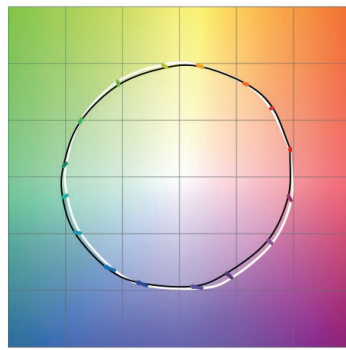


Rw: 120

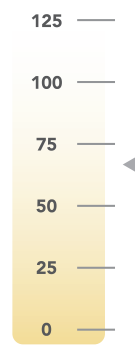


CRI: 95, R9: 95

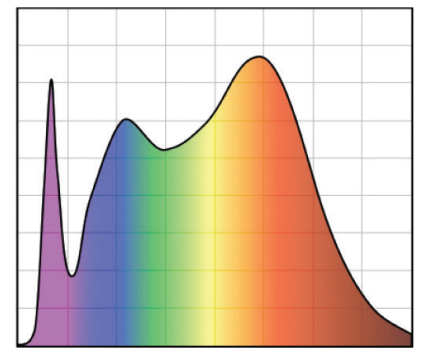
## 4000K



Rf: 90, Rg: 100, Rfh1: 95



Rw: 70



CRI: 95, R9: 95