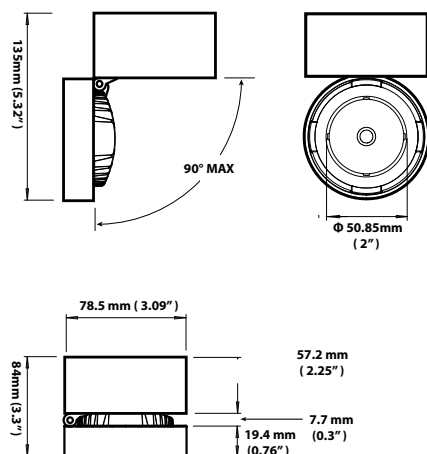


Project	Type
Client	Date
Part Number	

SORAA[®] arc[™]

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

The Soraa Arc[™] series surface mount combines elegant design with Soraa's unique quality of light to create a dynamic and versatile solution for retail, hospital-ity, 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

Light head is made of die cast aluminium, trans-former case from extruded aluminum. Durable matte powder coat finish. Tilt: 0-90°, rotation: 360°.

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: ARSM50-25D-927-U-H-W

Series	Beam & Wattage	CCT	Voltage	Finish
ARSM50 Soraa Arc Surface Mount, 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

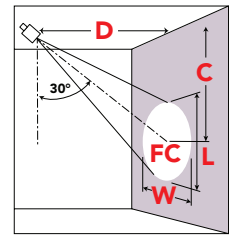
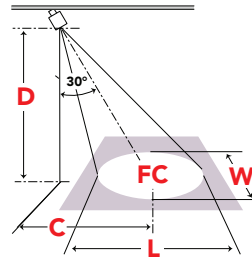
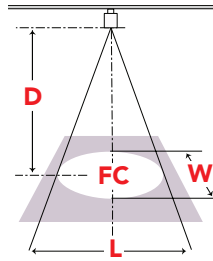
Photometrics - Soraa Arc™ 2" (50mm)

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.

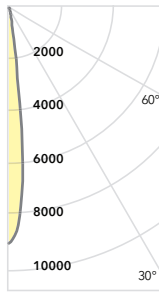
Key

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

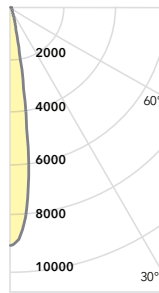
Distance (ft)		Beam (ft)	
D	C	FC	L W
6	3.7	161	1.6 1.4
8	4.8	93	2.2 1.9
10	5.9	59	2.7 2.3
12	6.9	42	3.2 2.8

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

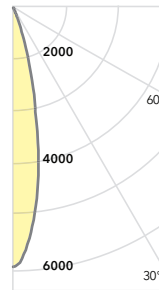
Distance (ft)		Beam (ft)	
D	C	FC	L W
6	3.7	149	2.1 1.8
8	4.8	85	2.8 2.3
10	5.9	54	3.4 2.9
12	7.0	39	4.1 3.5

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

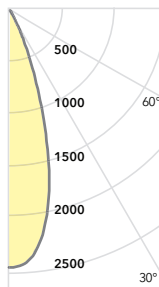
Distance (ft)		Beam (ft)	
D	C	FC	L W
6	3.6	100	2.9 2.5
8	4.8	57	3.8 3.3
10	6.0	38	4.6 4.1
12	7.1	26	5.5 4.9

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

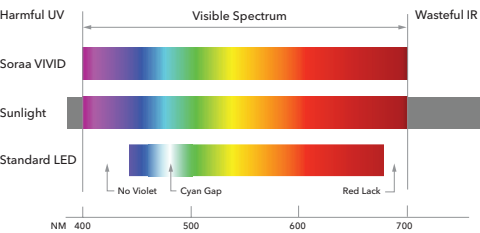
Distance (ft)		Beam (ft)	
D	FC	L	W
6	72	3.3	3.2
8	42	4.3	4.2
10	27	5.3	5.3
12	19	6.2	6.4

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

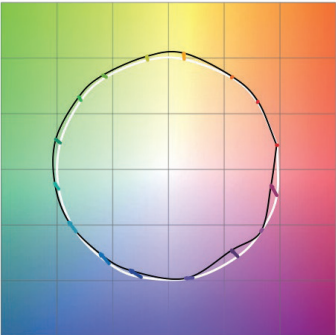
Rf: The TM-30 metric for color fidelity (similarity to colors under natural light), a more accurate version of the CRI Ra. Rf is 100 for natural light.

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

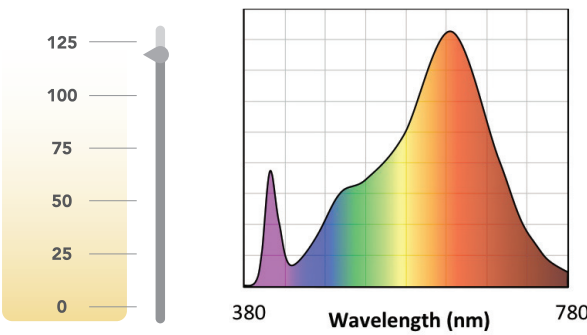
Rfh1: The TM-30 metric for color fidelity for red tones. Rfh1 is a more accurate version of the CRI R9. Rfh1 is 100 for natural light.

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

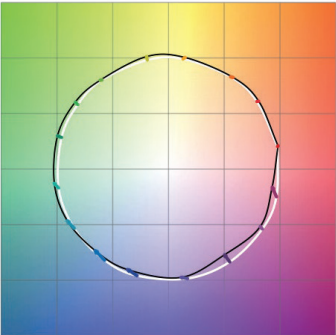


Rf: 90, Rg: 100, Rfh1: 95

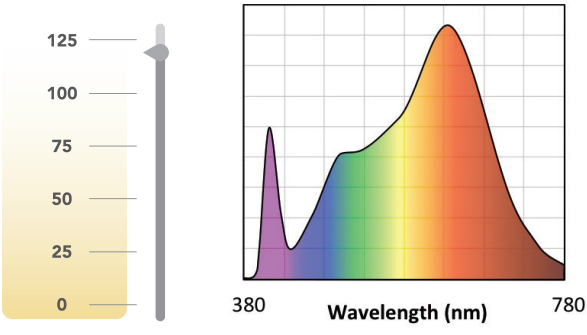


Rw: 120
CRI: 95, R9: 95

3000K

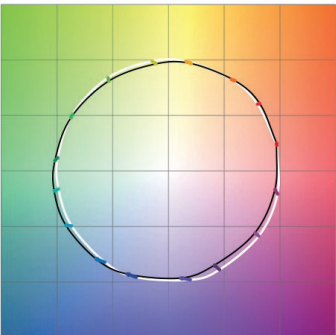


Rf: 90, Rg: 100, Rfh1: 95

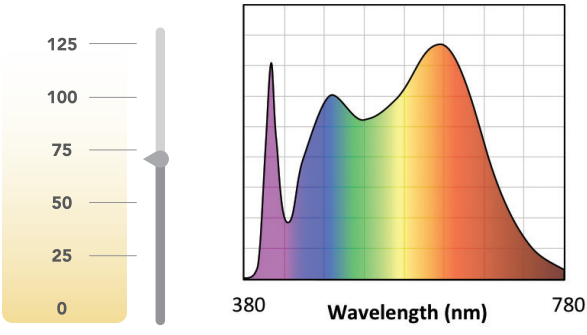


Rw: 120
CRI: 95, R9: 95

4000K



Rf: 90, Rg: 100, Rfh1: 95



Rw: 70
CRI: 95, R9: 95