

PAR38 GU24 18.5W



OUTPUT RANGE: VIVID SERIES 930 - 1050 lumen

OUTPUT RANGE: BRILLIANT SERIES 1190 - 1280 lumen

BEAM ANGLE RANGE 9°, 25°, 36°, 60°

COLOR TEMPERATURE RANGE 2700K, 3000K, 4000K, 5000K

APPLICATION Halogen replacement for indoor & outdoor applications



120V



GU24



DIM



POINT SOURCE OPTICS

Exceptional beam control enables unique 9° narrow spot and smooth uniform beams

Single light source, single crisp shadow

VP₃ VIVID COLOR & VP₃ NATURAL WHITE

VIVID series provides accurate color rendering across the visible spectrum from 400nm to 700nm, with CRI/95*, R9/95*, Rf/90, Rg/100

Whiteness rendering matches or exceeds that of halogen and incandescent sources at 2700K and 3000K

ENERGY EFFICIENCY & LONG LIFE

85% more energy efficient than standard halogen lamps

Typical payback of one year or less

Rated lifetime of 35,000 hours. 3 year warranty

CERTIFICATIONS

RoHS, CE, UL/CUL, FCC Title 47 Part 15B



RoHS

HIGHLY COMPATIBLE

Narrow spot compatible with Soraa SNAP System accessories

Thermally and geometrically compatible with standard fixtures and suitable for damp locations

Suitable for fully enclosed fixtures. Can be used with front glass cover

Works with trailing edge and leading edge phase cut dimmers (see www.soraa.com/resources)

INTENDED USE AND APPLICATIONS

Intended for use in PAR38 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

Width: 122mm (4.80")

Height: 123mm (4.84")

Weight: 305g

Operating Temperature

Minimum: -40°C (ambient)

Typical: 70°C - 80°C (base)

Maximum: 90°C (base)

Electrical

Wattage: 18.5W

Power factor: 0.95

Voltage: 120V +/- 12V

Frequency: 50/60Hz

Dimming and Flicker

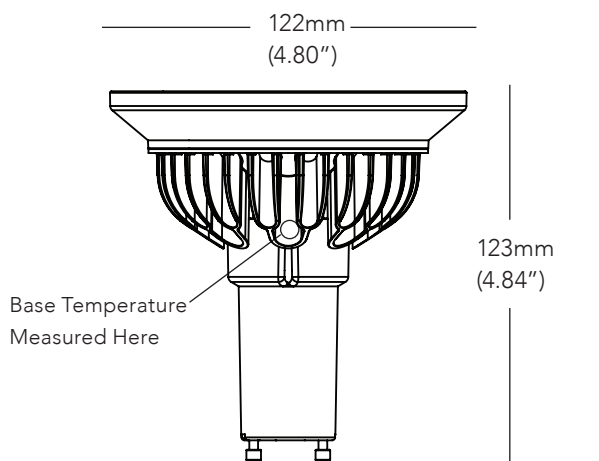
Dimmable to <10%

Flicker Index: <0.1

Percent Flicker: 31%

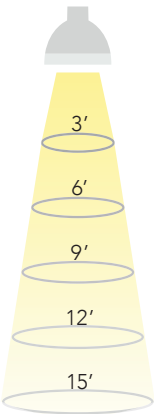
*Metrics apply to 2700K, 3000K, 4000K. 5000K color metrics are CRI/90, R9/95

DIMENSIONS



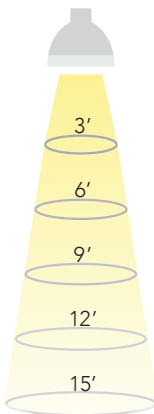
9 DEGREE BEAM

Beam Dia at 50% CBCP (ft)	Field Dia at 10% CBCP (ft)	Foot-candles (% of CBCP)
0.5	0.8	8.6%
0.9	1.7	2.5%
1.4	2.5	1.2%
1.9	3.4	0.7%
2.4	4.2	0.4%

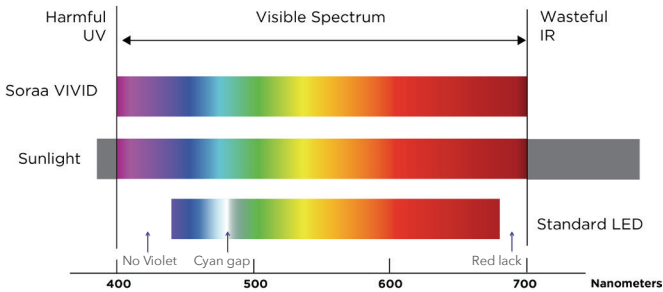


36 DEGREE BEAM

Beam Dia at 50% CBCP (ft)	Field Dia at 10% CBCP (ft)	Foot-candles (% of CBCP)
1.9	3.5	8.6%
3.9	6.9	2.5%
5.8	10.4	1.2%
7.8	13.9	0.7%
9.7	17.3	0.4%



COLOR RENDERING



25 DEGREE BEAM

Beam Dia at 50% CBCP (ft)	Field Dia at 10% CBCP (ft)	Foot-candles (% of CBCP)
1.3	2.2	8.6%
2.7	4.4	2.5%
4.0	6.6	1.2%
5.3	8.7	0.7%
6.7	10.9	0.4%

60 DEGREE BEAM

Beam Dia at 50% CBCP (ft)	Field Dia at 10% CBCP (ft)	Foot-candles (% of CBCP)
3.5	6.0	8.6%
6.9	12.0	2.5%
10.4	18.0	1.2%
13.9	24.0	0.7%
17.3	30.0	0.4%

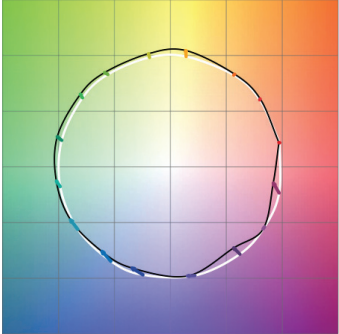
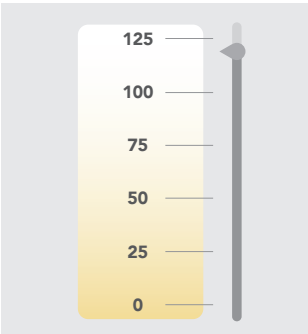
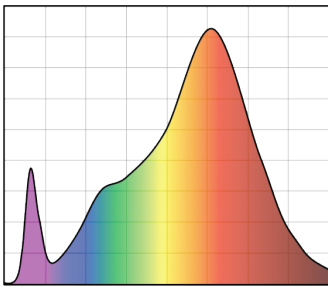
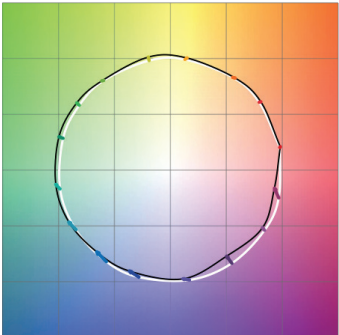
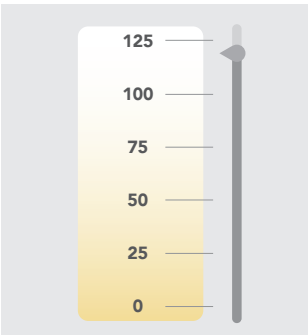
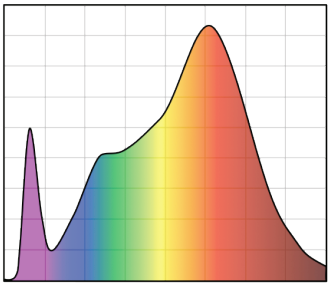
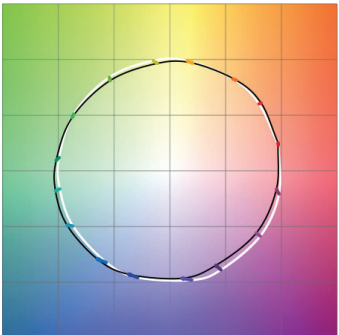
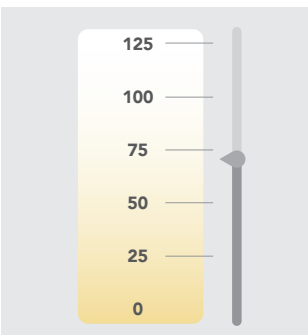
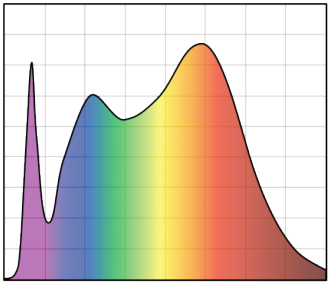
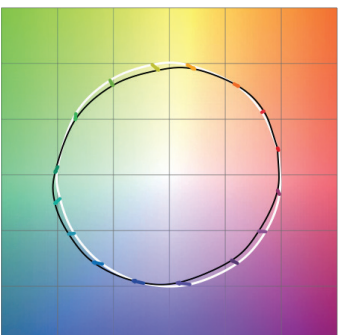
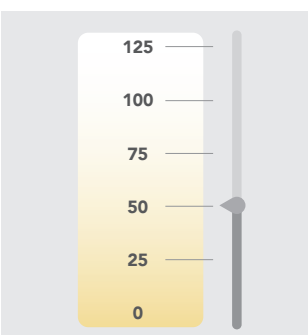
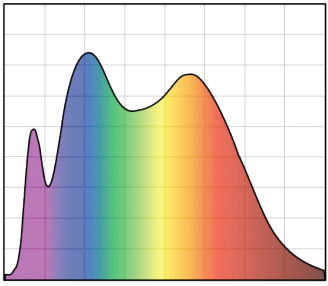
Note: Footcandles may be calculated by multiplying the CBCP of the desired model number by the percentage in the tables above

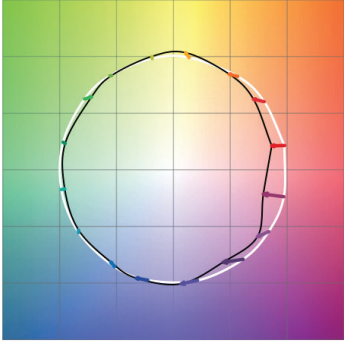
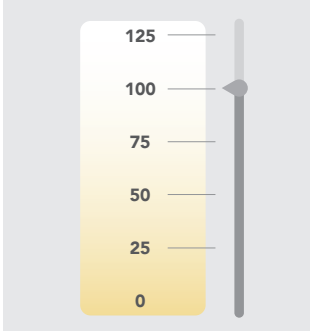
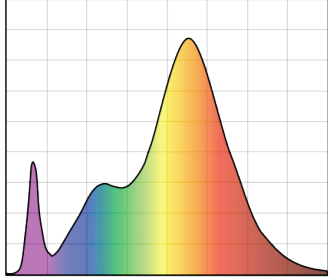
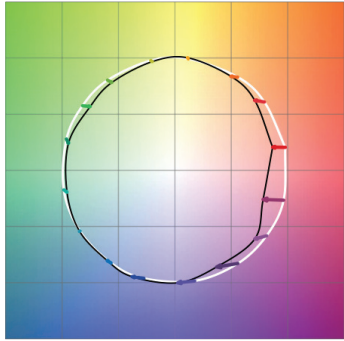
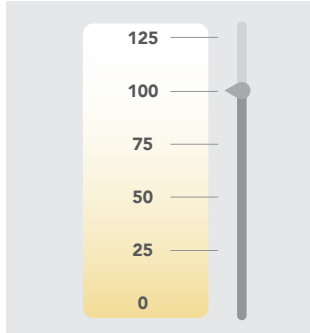
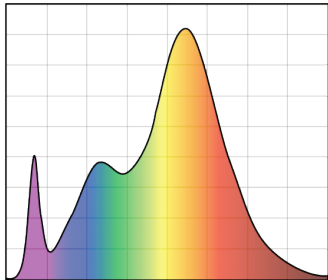
SPECIFICATIONS BY MODEL NUMBER* SORAA LED PAR38 GU24 18.5W

Model #	Product Code	CCT (K)	Beam Angle	Field Angle	CBCP (Cd)	Halogen Equivalent	Total Flux (Lm)	Efficacy (Lm/W)	McA	Energy Star	SNAP
VIVID SERIES											
SP38G-18-09D-927-03	02383	2700	9	16	17200	100	930	50	3	-	YES
SP38G-18-25D-927-03	02385	2700	25	40	5020	100	930	50	3	-	-
SP38G-18-36D-927-03	02387	2700	36	60	2320	100	930	50	3	-	-
SP38G-18-60D-927-03	02389	2700	60	90	1020	100	930	50	3	-	-
SP38G-18-09D-930-03	02399	3000	9	16	18500	100	1000	54	3	-	YES
SP38G-18-25D-930-03	02401	3000	25	40	5400	100	1000	54	3	-	-
SP38G-18-36D-930-03	02403	3000	36	60	2500	100	1000	54	3	-	-
SP38G-18-60D-930-03	02405	3000	60	90	1100	100	1000	54	3	-	-
SP38G-18-09D-940-03	02415	4000	9	16	19240	100	1040	56	4	-	YES
SP38G-18-25D-940-03	02417	4000	25	40	5600	100	1040	56	4	-	-
SP38G-18-36D-940-03	02419	4000	36	60	2600	100	1040	56	4	-	-
SP38G-18-60D-940-03	02421	4000	60	90	1140	100	1040	56	4	-	-
SP38G-18-09D-950-03	02423	5000	9	16	19420	100	1050	57	5	-	YES
SP38G-18-25D-950-03	02425	5000	25	40	5660	100	1050	57	5	-	-
SP38G-18-36D-950-03	02427	5000	36	60	2620	100	1050	57	5	-	-
SP38G-18-60D-950-03	02429	5000	60	90	1140	100	1050	57	5	-	-
BRILLIANT SERIES											
SP38G-18-09D-827-03	02391	2700	9	16	22000	120	1190	64	3	-	YES
SP38G-18-25D-827-03	02393	2700	25	40	6420	120	1190	64	3	-	-
SP38G-18-36D-827-03	02395	2700	36	60	2960	120	1190	64	3	-	-
SP38G-18-60D-827-03	02397	2700	60	90	1300	120	1190	64	3	-	-
SP38G-18-09D-830-03	02407	3000	9	16	23680	120	1280	69	3	-	YES
SP38G-18-25D-830-03	02409	3000	25	40	6900	120	1280	69	3	-	-
SP38G-18-36D-830-03	02411	3000	36	60	3200	120	1280	69	3	-	-
SP38G-18-60D-830-03	02413	3000	60	90	1400	120	1280	69	3	-	-

CCT: Correlated Color Temperature **McA**: White Point Accuracy in McA step **SNAP**: SORAA SNAP System Compatible

*Specifications are at stable warm operating conditions (25°C ambient)

SERIES/CCT	COLOR ACCURACY	WHITENESS INDEX	SPECTRAL POWER DISTRIBUTION
VIVID 2700K	 Rf: 90, Rg: 100, Rfh1: 95	 Rw: 120	 Wavelength (nm) CRI: 95, R9: 95
VIVID 3000K	 Rf: 90, Rg: 100, Rfh1: 95	 Rw: 120	 Wavelength (nm) CRI: 95, R9: 95
VIVID 4000K	 Rf: 90, Rg: 100, Rfh1: 95	 Rw: 70	 Wavelength (nm) CRI: 92, R9: 95
VIVID 5000K	 Rf: 90, Rg: 100, Rfh1: 95	 Rw: 50	 Wavelength (nm) CRI: 90, R9: 95

SERIES/CCT	COLOR ACCURACY	WHITENESS INDEX	SPECTRAL POWER DISTRIBUTION
BRILLIANT 2700K	 Rf: 85, Rg: 92, Rfh1: 77	 Rw: 100	 380 Wavelength (nm) 780 CRI: 85, R9: >0
BRILLIANT 3000K	 Rf: 85, Rg: 92, Rfh1: 77	 Rw: 100	 380 Wavelength (nm) 780 CRI: 85, R9: >0

Rf: TM-30 metric measuring color fidelity (whether colors are similar to those under natural light). Rf is a more accurate version of the CRI Ra. Rf is 100 for natural light.
 Rg: TM-30 metric measuring color gamut (whether colors are more saturated than under natural light). Rg is 100 for natural light.
 Rfh1: TM-30 metric measuring color fidelity for red tones. Rfh1 is a more accurate version of the CRI R9. Rfh1 is 100 for natural light.
 Rw: Soraa-developed metric to measure white fidelity. Rw measures the magnitude of excitation of whitening agents within whites. Rw is about 100 for natural light.