



**SORAA BRILLIANT HL™**

The Soraa Brilliant HL single-source COB lamp combines Soraa's world-class optics design and driver technology with a photopically efficacious LED

**SORAA POINT SOURCE OPTICS™**

With a point source and sophisticated folded optics, Soraa creates very controlled beam angles from 25 to 60 degrees, even in challenging form factors resulting in smooth uniform beams and crisp shadows

**FLICKER**

Soraa lamps demonstrate low levels of flicker in both dimmed and undimmed states

**ENERGY EFFICIENCY AND LONG LIFE**

85% more energy efficient than standard halogen lamps  
 Typical payback of one year or less  
 Rated lifetime to L70: 35,000hrs  
 Warranty: 3yrs or 25,000hrs whichever comes first  
 Warranty information: [soraa.com/resources/legal](http://soraa.com/resources/legal)

**CERTIFICATIONS**

Title 20 certification pending, RoHS, CE, UL/CUL, FCC Title 47 Part 15B



**RoHS**



Output Range	930 - 960 lumen
Beam Angle Range	25°, 36°, 60°
Color Metrics	CCT: 2700K, 3000K Color Rendering CIE Metrics: CRI 92, R9 50
Application	Halogen replacement for indoor and outdoor applications



**HIGHLY COMPATIBLE**

Thermally and geometrically compatible with standard fixtures and suitable for damp locations  
 Works with trailing edge and leading edge phase cut dimmers (see [www.soraa.com/resources](http://www.soraa.com/resources))

**INTENDED USE AND APPLICATIONS**

Intended for use in PAR20 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: 64mm (2.52")  
 Height: 77mm (3.04")  
 Weight: 160g

**Operating Temperature**

Minimum: -40°C (ambient)  
 Typical: 70°C - 80°C (base)  
 Maximum: 90°C (base)

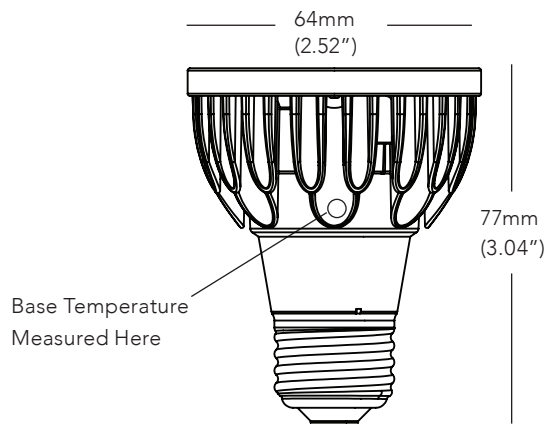
**Electrical**

Wattage: 10.8W  
 Power factor: 0.92  
 Voltage: 120V +/- 12V  
 Frequency: 50/60Hz

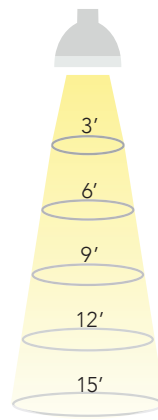
**Dimming**

Dimmable to <20%

## DIMENSIONS



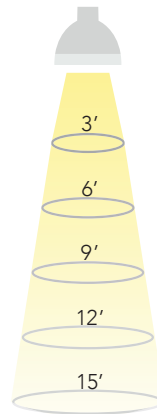
## 25 DEGREE BEAM



Beam Dia at 50% CBCP (ft)	Field Dia at 10% CBCP (ft)	Foot-candles (% of CBCP)
1.3	2.2	11.1%
2.7	4.4	2.8%
4.0	6.6	1.2%
5.3	8.7	0.7%
6.7	10.9	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	11.1%
3.9	6.9	2.8%
5.8	10.4	1.2%
7.8	13.9	0.7%
9.7	17.3	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	11.1%
6.9	12.0	2.8%
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 PAR20 10.8W

Model #	Product Code	CCT (K)	Beam Angle	Field Angle	CBCP (Cd)	Halogen Equiv	Total Flux (Lm)	Efficacy (Lm/W)	CRI	McA	Title 20
<b>BRILLIANT HL SERIES</b>											
SP20-11-25D-827-H1	08795	2700	25	40	4185	90	930	87	92	3	pending
SP20-11-36D-827-H1	08797	2700	36	60	2325	90	930	87	92	3	pending
SP20-11-60D-827-H1	08799	2700	60	90	930	90	930	87	92	3	pending
SP20-11-25D-830-H1	08803	3000	25	40	4320	90	960	90	92	3	pending
SP20-11-36D-830-H1	08805	3000	36	60	2400	90	960	90	92	3	pending
SP20-11-60D-830-H1	08807	3000	60	90	960	90	960	90	92	3	pending

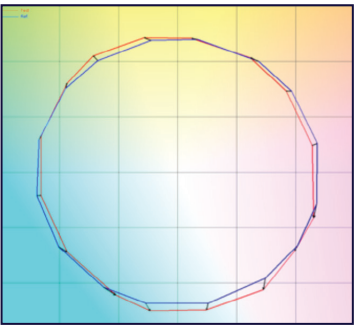
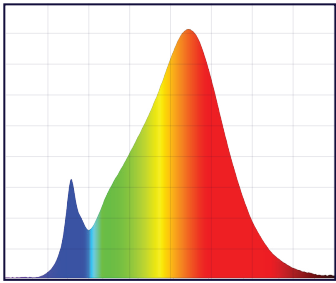
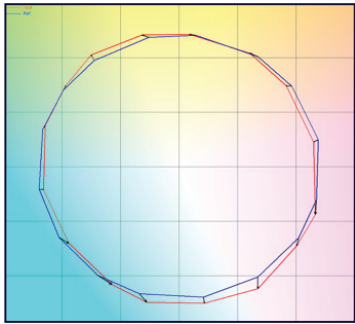
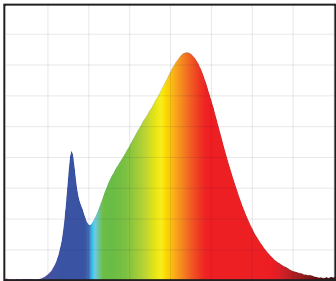
CCT: Correlated Color Temperature **McA**: White Point Accuracy in McA step **SNAP**: SORAA SNAP System Compatible

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

**SERIES/CCT**

**COLOR ACCURACY**

**SPECTRAL POWER DISTRIBUTION**

<p><b>BRILLIANT HL 2700K</b></p>	 <p><b>Rf: 90, Rg: 98, Rfh1: 85</b></p>	 <p><b>CRI: 92, R9: 50</b></p>
<p><b>BRILLIANT HL 3000K</b></p>	 <p><b>Rf: 90, Rg: 98, Rfh1: 85</b></p>	 <p><b>CRI: 92, R9: 50</b></p>

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.