



SIMPLY PERFECT LIGHT[®]

We design the smallest sources and pair them with our unique full-spectrum technology, for perfect color and light distribution in a wide range of lamp form factors.

SORAA VIVID™

SORAA VIVID* lamps provide beautiful and accurate color rendering across the entire visible spectrum, with 95 CRI, 95 R9, 90 Rf, and 100Rg.

* This light source produces greater than 2mW of ultraviolet light per 1000 lumens of total light and is intended only for high color and white rendering applications, where the UV light is required to activate optical brightening agents in illuminated objects. Use of this light source will lead to increased energy cost compared to an equivalent more energy efficient product.

SORAA NATURAL WHITE™

SORAA lamps clearly differentiate infinite shades of white; whiteness rendering matches or exceeds halogen and incandescent sources at 2700K and 3000K.

THERMALLY COMPATIBLE

Suitable for use in fully enclosed fixtures, subject to the maximum heatsink temperature limits stated in this data sheet. A list of qualified enclosed fixtures can be found at www.soraa.com/resources. SORAA lamps are designed to safely turn down in any thermal environment not conducive to minimum airflow or proper ventilation.

ELECTRICALLY COMPATIBLE

Works with trailing edge and phase cut dimmers. A list of compatible dimmers and transformers can be found at www.soraa.com/resources/compatibility

LOCATION RATING

Suitable for damp locations.

Not rated for use in wet locations, should not be exposed to liquid water (including condensation).

HIGH COLOR QUALITY, ENCLOSED FIXTURE COMPATIBLE LED LAMP FOR USE IN BR30 COMPATIBLE FIXTURES AND OTHER INDOOR AND OUTDOOR APPLICATIONS

OUTPUT RANGE 830-890 LUMENS

BEAM ANGLE 120°

COLOR METRICS

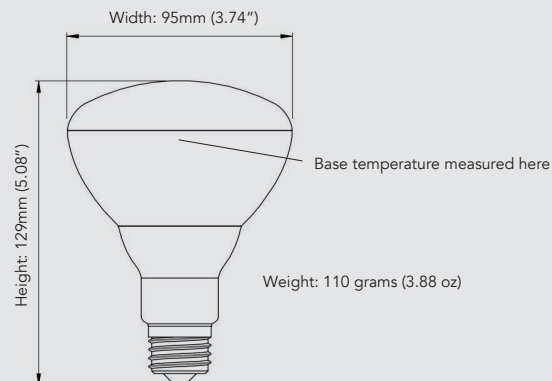
CCT: 2700K, 3000K
Color Rendering
CIE Metrics: CRI 95, R9 95
TM30 Metrics: Rf 90, Rfh 1 90
Whiteness Index: Rw 100

APPLICATION

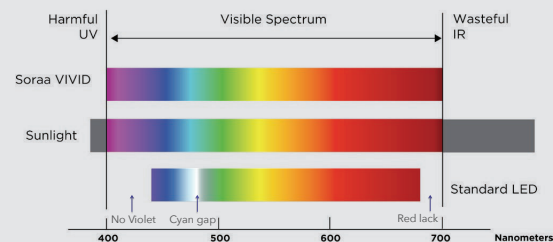
Halogen replacement for indoor and outdoor applications



FORM FACTOR



COLOR RENDERING



LIFETIME AND WARRANTY

Rated lifetime to L70: 25,000 hours

Warranty: 3 years or 25,000 hours, whichever comes first

Detailed warranty information available at:

www.soraa.com/resources/legal

OPERATING TEMPERATURE

Minimum: -40° C (ambient)
 Typical: 80° C - 95° C (lamp base)
 Maximum: 100° C (lamp base)

ELECTRICAL SPECIFICATIONS

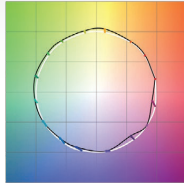
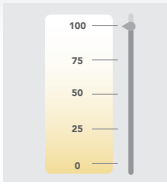
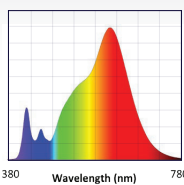
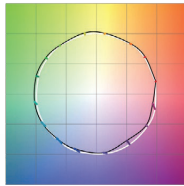
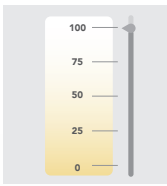
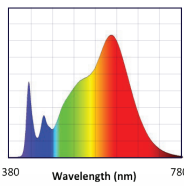
Wattage: 12W
 Voltage: 120V +/- 12V
 Frequency: 50/60 Hz
 Power Factor: 0.95

DIMMING

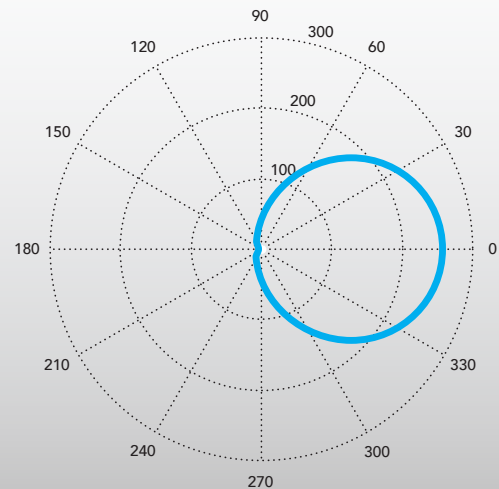
Please reference our compatibility chart for dimmer and transformer information.

CERTIFICATIONS



SERIES/CCT	COLOR ACCURACY	WHITENESS INDEX	SPECTRAL POWER DISTRIBUTION
VIVID 2700K	 Rf: 90, Rg: 100, Rfh1: 90	 Rw: 100	 CRI: 95, R9: 95
VIVID 3000K	 Rf: 90, Rg: 100, Rfh1: 90	 Rw: 100	 CRI: 95, R9: 95

POLAR DIAGRAM



VIVID Model Number	Product Code	CCT (K)	Total Flux (Lm)	Beam Angle	Halogen Equiv (W)**	Efficacy (Lm/W)	CRI/R9	Rf	White Point (McA)
SB30-11-120D-927-01	04216	2700	830	120°	65	69	95 / 95	90	3
SB30-11-120D-930-01	04218	3000	890	120°	65	74	95 / 95	90	3

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

CCT = Correlated Color Temperature CRI = Color Rendering Index (Ra-8) White Point = White Point Accuracy in McA step

Other SORAA VIVID lamp form factors can be found at <https://www.soraa.com/products/lamps>