

# SORAA<sup>®</sup> VIVID LED AR111 2700K 18.5W



|                    |                                                         |
|--------------------|---------------------------------------------------------|
| <b>OUTPUT</b>      | 1020-22400 CBCP, 930 Lumens                             |
| <b>BEAM</b>        | 9°, 25°, 36°, 60°                                       |
| <b>COLOR</b>       | CCT: 2700K CRI>95, R9 95                                |
| <b>APPLICATION</b> | Halogen replacement for indoor and outdoor applications |

## PERFORMANCE

CBCP matches standard incandescent and halogen lamps  
Single light source, single crisp shadow  
Narrow spot compatible with Soraa SNAP System accessories

## COLOR AND WHITENESS

Rich full-spectrum color rendering  
Excellent color stability  
Superior white rendering based on >70% excitation of Optical Brightening Agents (OBA) with spectral emission between 400nm and 440nm

## OPTIMIZED FORM

Compatible with standard fixtures  
Proprietary fanless aluminum design for superior thermal dissipations

## HIGHLY COMPATIBLE

Works with trailing edge and leading edge phase cut dimmers (see complete list at [www.soraa.com](http://www.soraa.com))

## LONG LIFE, LOW MAINTENANCE

Life of 35,000 hours. Three year warranty

## ENERGY EFFICIENT

80% more energy efficient than standard halogen lamps  
Typical payback of one year or less

## INTENDED USE AND APPLICATIONS

Intended for use in AR111 compatible recessed downlights, track lighting and other indoor applications

Can be used in fully enclosed fixtures

Operating Temperature - Minimum: -40°C (ambient), Typical: 80-110°C (base), Maximum: 120°C (base)

Soraa lamps are designed to safely shut down due to conditions in any thermal environment not conducive to minimum airflow or proper ventilation

Suitable for damp locations

## CERTIFICATIONS

UL, CUL, FCC 47 CFR Part 15 and Part 18 (EMI), RoHS

## SPECIFICATIONS\*

| Color                                     |              | Electrical            |       |       | Form Factor   |               |       |      |
|-------------------------------------------|--------------|-----------------------|-------|-------|---------------|---------------|-------|------|
| CCT: 2700K                                |              | Dimmable to 20%       |       |       | Width: 4.37"  |               |       |      |
| CRI>95, R9>95                             |              | Power factor: 0.90    |       |       | Height: 2.24" |               |       |      |
| White point: Within 3-step McAdam ellipse |              | Voltage: 12V +/- 1.2V |       |       | Weight: 250g  |               |       |      |
| Reference Number                          | Product Code | Beam                  | Field | CBCP  | Watts         | Halogen Equiv | Lumen | Lm/W |
| SR111-18-09D-927-03                       | 00869        | 9°                    | 13°   | 22400 | 18.5          | 75W           | 930   | 50   |
| SR111-18-25D-927-03                       | 00871        | 25°                   | 38°   | 5020  | 18.5          | 75W           | 930   | 50   |
| SR111-18-36D-927-03                       | 00873        | 36°                   | 53°   | 2320  | 18.5          | 75W           | 930   | 50   |
| SR111-18-60D-927-03                       | 00875        | 60°                   | 82°   | 1020  | 18.5          | 75W           | 930   | 50   |

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

12VAC



2700K

CRI >95



DIM



POWERED BY



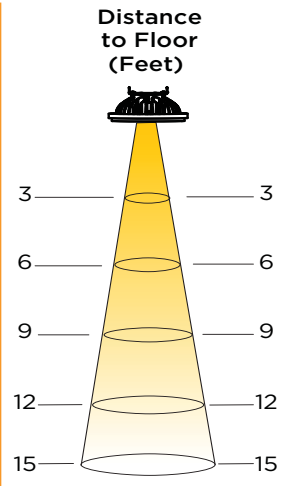
TECHNOLOGY



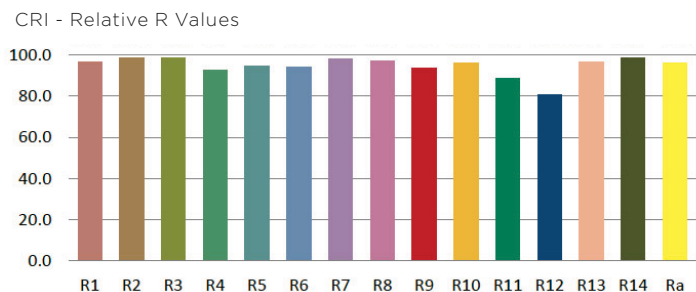
RoHS

# SORAA VIVID LED AR111 2700K 18.5W

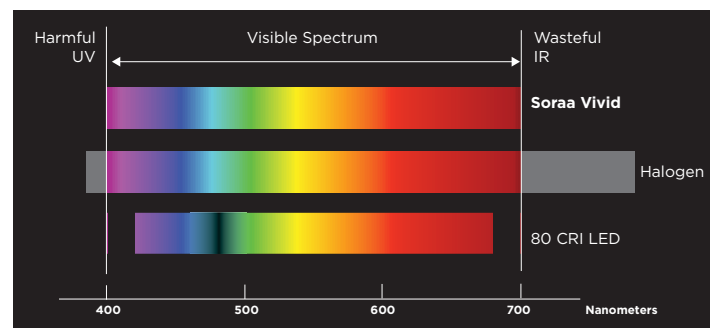
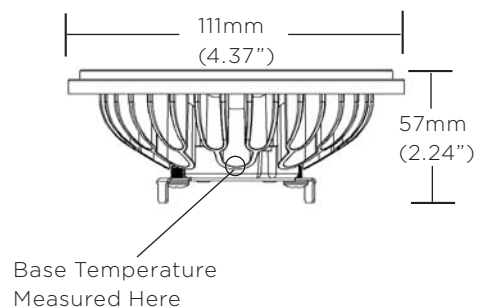
## PHOTOMETRICS

| Narrow Spot 9°            |                            |              | Narrow Flood 25°          |                            |              | <div> Distance<br/>to Floor<br/>(Feet)  </div> | Flood 36°                 |                            |              | Wide Flood 60°            |                            |              |
|---------------------------|----------------------------|--------------|---------------------------|----------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------------|--------------|---------------------------|----------------------------|--------------|
| Beam Dia at 50% CBCP (ft) | Field Dia at 10% CBCP (ft) | Foot-candles | Beam Dia at 50% CBCP (ft) | Field Dia at 10% CBCP (ft) | Foot-candles |                                                                                                                                 | Beam Dia at 50% CBCP (ft) | Field Dia at 10% CBCP (ft) | Foot-candles | Beam Dia at 50% CBCP (ft) | Field Dia at 10% CBCP (ft) | Foot-candles |
| 0.42                      | 0.68                       | 2489         | 1.33                      | 2.07                       | 558          |                                                                                                                                 | 1.95                      | 2.99                       | 258          | 3.46                      | 5.22                       | 113          |
| 0.84                      | 1.37                       | 622          | 2.66                      | 4.13                       | 139          |                                                                                                                                 | 3.90                      | 5.98                       | 64           | 6.93                      | 10.43                      | 28           |
| 1.26                      | 2.05                       | 277          | 3.99                      | 6.20                       | 62           |                                                                                                                                 | 5.85                      | 8.97                       | 29           | 10.39                     | 15.65                      | 13           |
| 1.68                      | 2.73                       | 156          | 5.32                      | 8.26                       | 35           |                                                                                                                                 | 7.80                      | 11.97                      | 16           | 13.86                     | 20.86                      | 7            |
| 2.10                      | 3.42                       | 100          | 6.65                      | 10.33                      | 22           | 15                                                                                                                              | 9.75                      | 14.96                      | 10           | 17.32                     | 26.08                      | 5            |

## COLOR RENDERING



## DIMENSIONS



## SAFETY NOTE ON HEAT

Soraa's unique LED technology allows its lamps to operate effectively and efficiently at higher temperatures than other LED lamps, resulting in more light output per diode. Although Soraa's lamps operate at cooler temperatures than halogen lamps, it is recommended that gloves be worn when handling bare lamps that have been energized.

## TRANSFORMER/DIMMER COMPATIBILITY

Dimmable to 20% or lower, depending on dimmer. Complete transformer and dimmer compatibility information available at [www.soraa.com](http://www.soraa.com).