



### SORAA VIVID WITH WARM DIM

Warm dimming capabilities give designers flexibility to create warmer, more intimate environments. Color point mimics halogen from 2700K to 1800K, while 95 CRI and 95 R9 are maintained throughout the dimming range.

### POINT SOURCE OPTICS™

Experience exceptional control featuring Soraa's signature Point Source Optics which create perfect beams, uniform color and sharp shadows.

### SORAA VIVID COLOR™ AND SORAA NATURAL WHITE™

All Soraa VIVID lamps feature the right amount of spectral content from violet to deep red in every wavelength from 400nm to 700nm with with 95 CRI, 95 R9 and 100 Rw.

Soraa's whiteness methodology means we render white faithfully, matching or exceeding that of halogen and incandescent sources at 2700K and 3000K.

### 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

### GENERAL SPECIFICATIONS

#### Form Factor

Width: 111mm (4.37")

Height: 57mm (2.24")

Weight: 250g

#### Operating Temperature

Minimum: -40°C (ambient)

Typical: 60°C - 70°C (base)

Maximum: 80°C (base)

#### Electrical

Wattage: 19W

Power factor: 0.92

Voltage: 12V +/- 1.2V

Frequency: 50/60Hz

#### Dimming

Dimmable to <20%

# AR111 19W

Vivid Warm Dim Series 1000 lumens

Beam Angle Range 25°, 36°

Color CCT Dimming Range 2700K – 1800K

Application Halogen replacement for indoor and outdoor applications



### HIGHLY COMPATIBLE

Geometrically compatible with standard fixtures and suitable for damp locations

This lamp is suitable for use in fully enclosed fixtures, subject to the maximum heatsink temperature limits stated in this data sheet.

Works with trailing edge and leading edge phase cut dimmers, 12V AC magnetic and electronic transformers and 12V DC transformers

### INTENDED USE AND APPLICATIONS

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

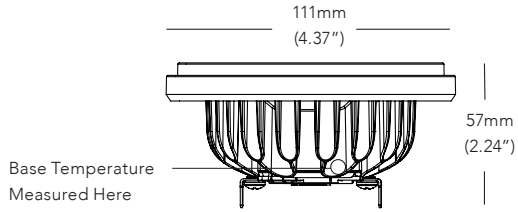
Soraa lamps are designed to safely turn down in any thermal environment not conducive to minimum airflow or proper ventilation

### CERTIFICATIONS

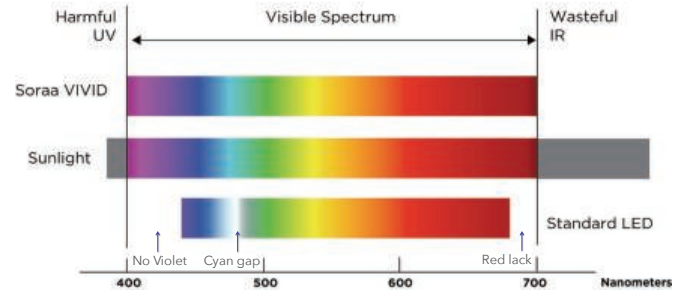
UL/CUL Class 2 and non-Class 2, FCC Title 47 Part 15B, RoHS, CE



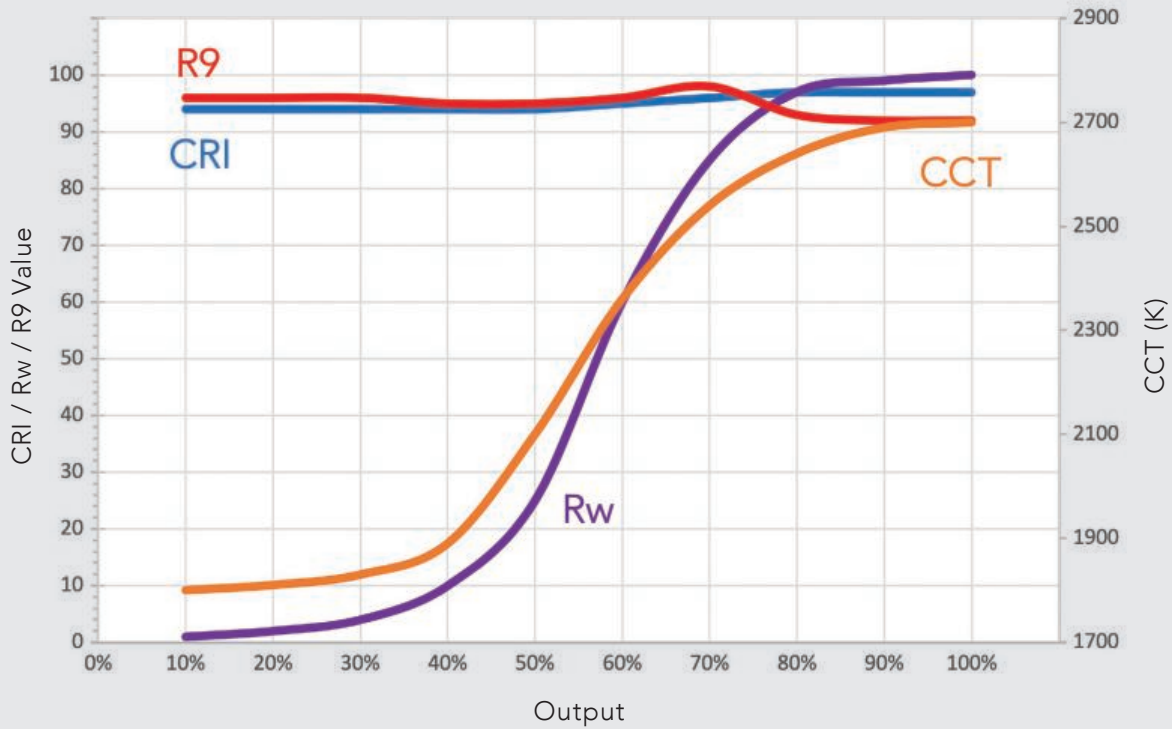
## DIMENSIONS



## COLOR RENDERING



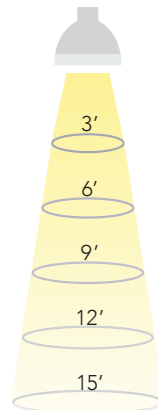
## WARM DIM COLOR METRICS



SORAA VIVID-warm dim shifts to pleasing, warm hues, as light intensity decreases, maintaining high color quality.

## 25 DEGREE BEAM

| Beam Dia at 50% CBCP (ft) | Field Dia at 10% CBCP (ft) | Foot-candles (% of CBCP) |
|---------------------------|----------------------------|--------------------------|
| 1.3                       | 2.2                        | 6.8%                     |
| 2.7                       | 4.4                        | 2.3%                     |
| 4.0                       | 6.6                        | 1.1%                     |
| 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                        | 6.8%                     |
| 3.9                       | 6.9                        | 2.3%                     |
| 5.8                       | 10.4                       | 1.1%                     |
| 7.8                       | 13.9                       | 0.7%                     |
| 9.7                       | 17.3                       | 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 AR111 19W

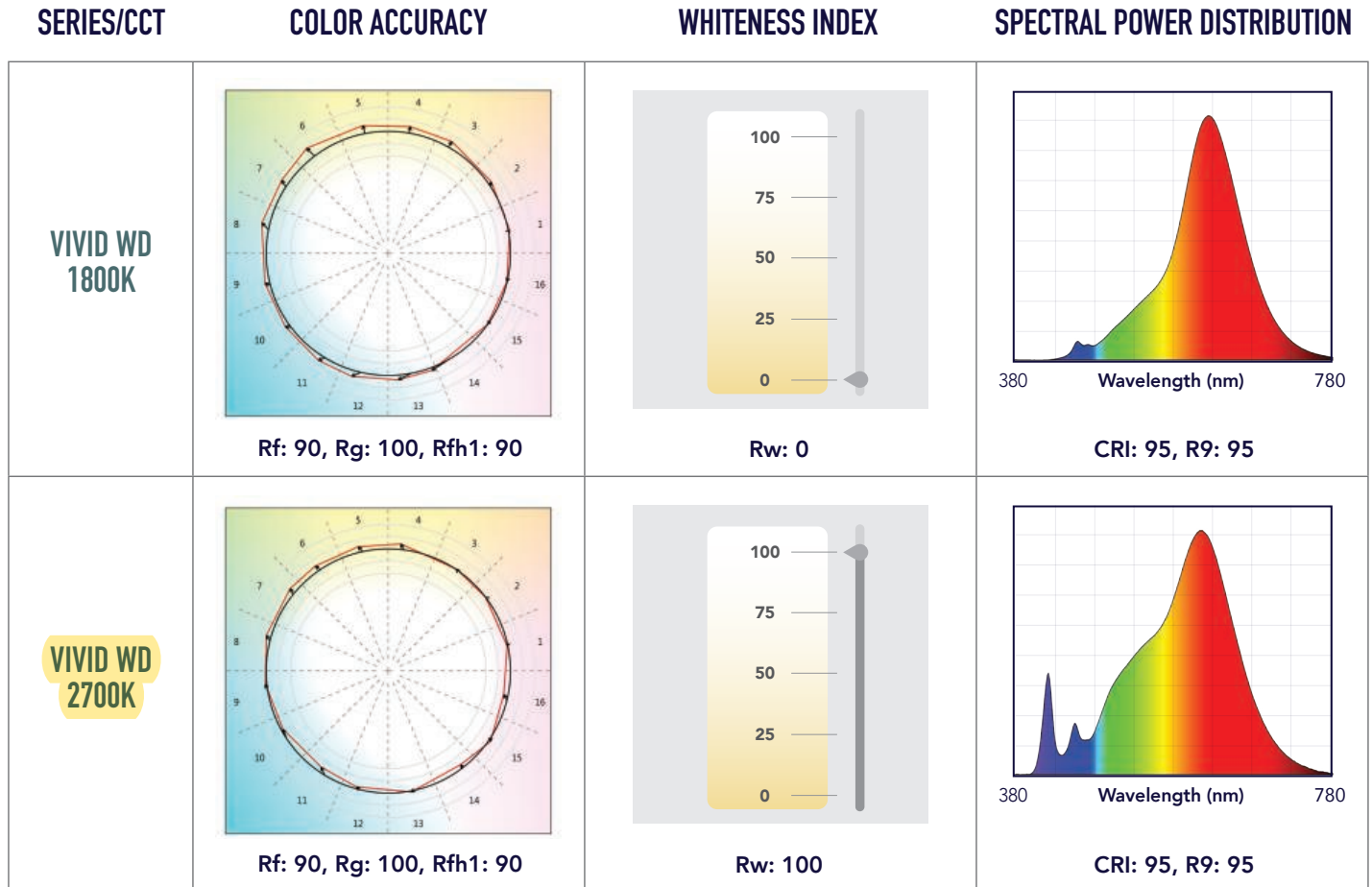
| Model # | Product Code | CCT (K) | Beam Angle | Field Angle | CBCP (Cd) | Halogen Equivalent | Total Flux (Lm) | Efficacy (Lm/W) | McA | SNAP |
|---------|--------------|---------|------------|-------------|-----------|--------------------|-----------------|-----------------|-----|------|
|---------|--------------|---------|------------|-------------|-----------|--------------------|-----------------|-----------------|-----|------|

## VIVID SERIES

|                          |       |      |    |    |      |    |      |    |   |   |
|--------------------------|-------|------|----|----|------|----|------|----|---|---|
| SR111-19-25DM-927/918-01 | 08714 | 2700 | 25 | 40 | 5500 | 75 | 1000 | 53 | 3 | - |
| SR111-19-36DM-927/918-01 | 08716 | 2700 | 36 | 60 | 2500 | 75 | 1000 | 53 | 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)



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.