



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.

<https://www.soraa.com/resources/tm30>

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

GENERAL SPECIFICATIONS

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



gan-on-gan



WarmDim



full spectrum



natural white



IK



UV



12V AC



G53



damp rated

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. A list of qualified enclosed fixtures can be found at www.soraa.com/resources

Works with trailing edge and leading edge phase cut dimmers, 12V AC magnetic and electronic transformers and 12V DC transformers (see www.soraa.com/resources)

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



RoHS

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

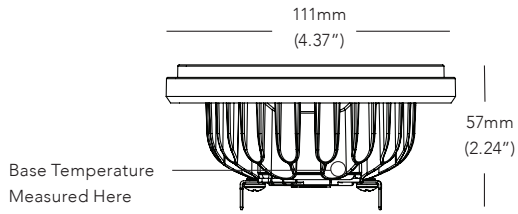
Voltage: 12V +/- 1.2V

Frequency: 50/60Hz

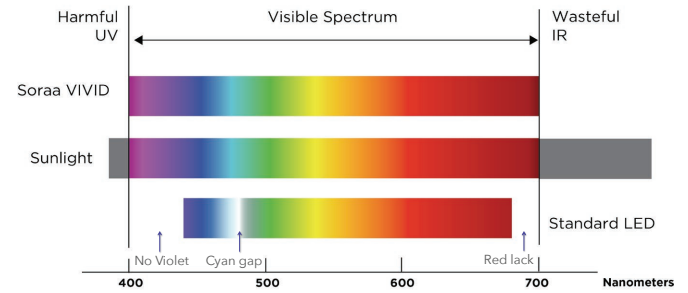
Dimming

Dimmable to <20%

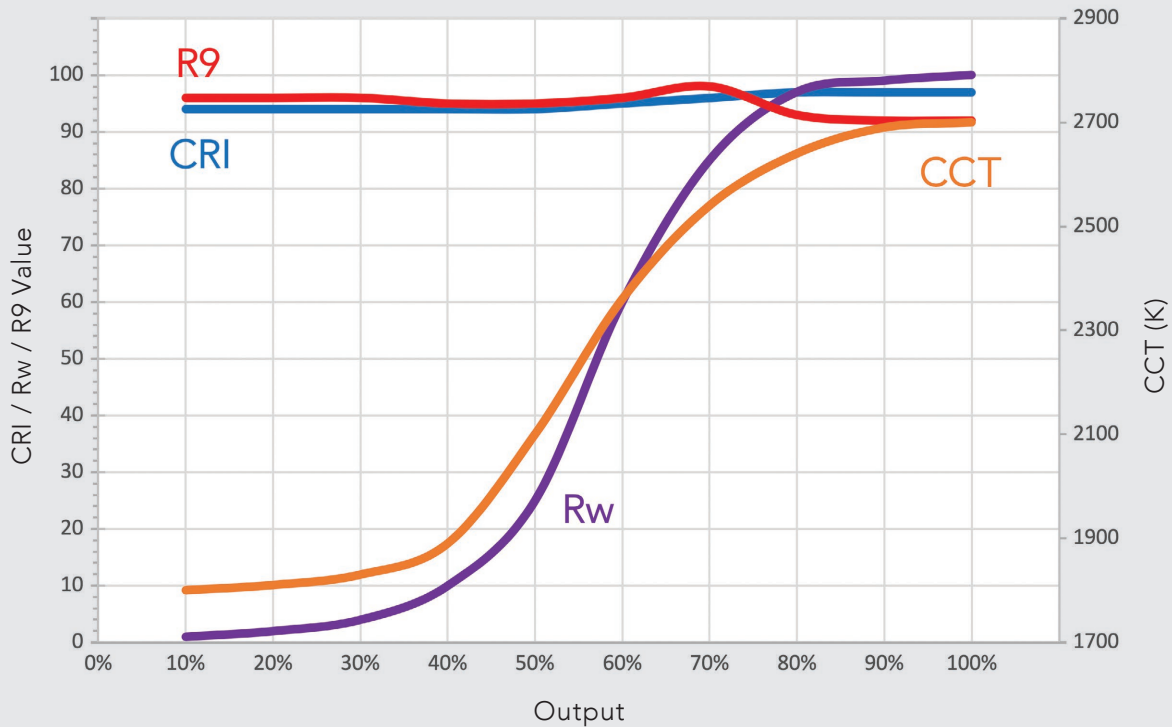
DIMENSIONS



COLOR RENDERING



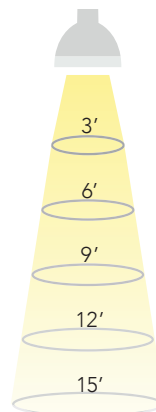
WARM DIM COLOR METRICS



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

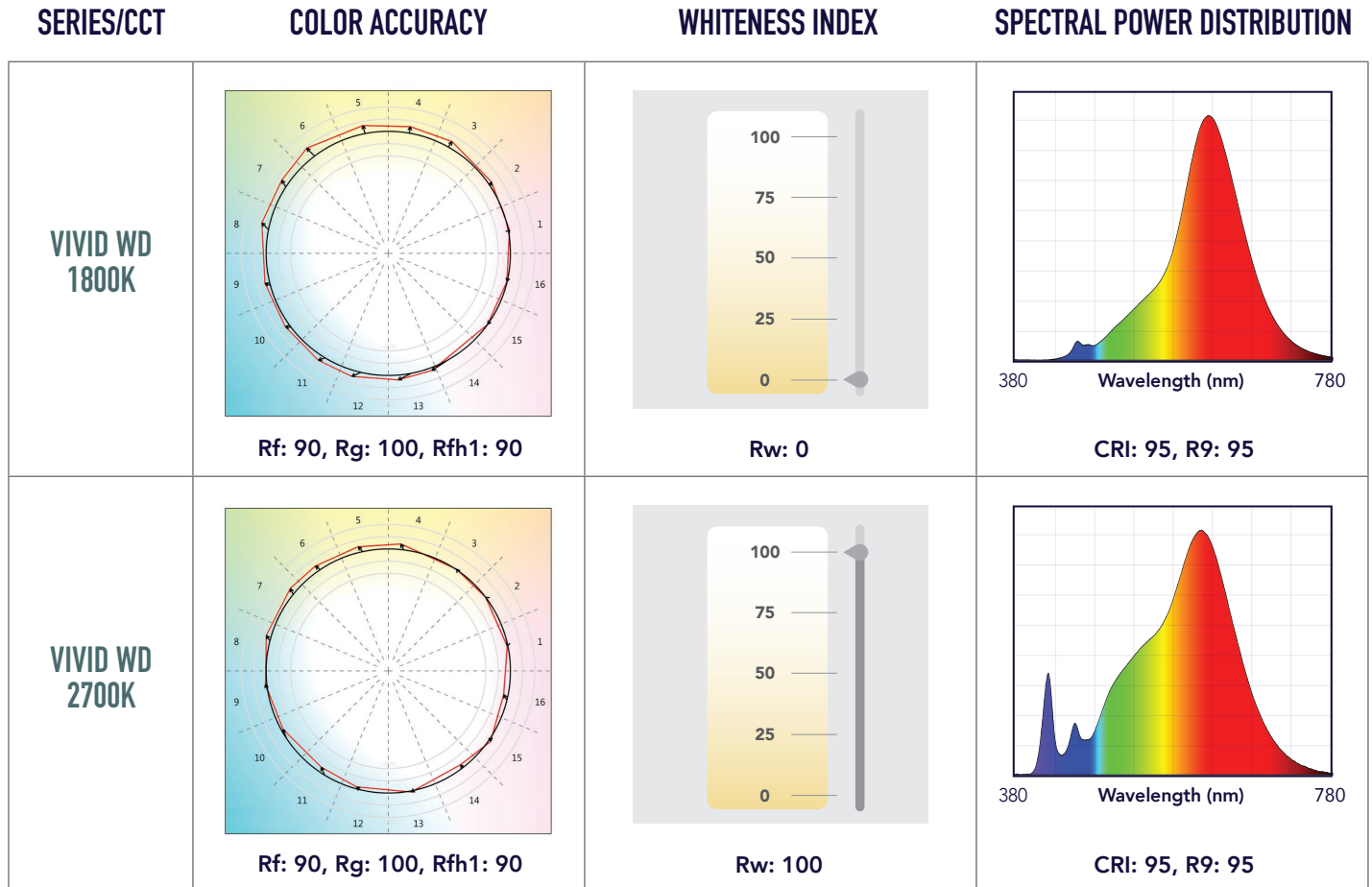
Model #	Product Code	CCT (K)	Beam Angle	Field Angle	CBCP (Cd)	Halogen Equivalent	Total Flux (Lm)	Efficacy (Lm/W)	McA	SNAP
---------	--------------	---------	------------	-------------	-----------	--------------------	-----------------	-----------------	-----	------

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.