



SORAA VIVID WITH WARM DIM

Warm dimming capabilities give designers flexibility to create warmer, more intimate environments. Color point mimics halogen from either 3000K or 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 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

Form Factor

Width: 50.1mm (1.97")

Height: 45.5mm (1.79")

Weight: 47g

Operating Temperature

Minimum: -40°C (ambient)

Typical: 85°C - 95°C (base)

Maximum: 100°C (base)

Electrical

Wattage: 7.5W

Power factor: 0.92

Voltage: 12V +/- 1.2V

Frequency: 50/60Hz

Dimming and Flicker

T24/JA8 compliant.

Please reference our compatibility chart for dimmer and transformer information.

MR16 7.5W

VIVID Warm Dim Series 410 – 430 lumens

Beam Angle Range 25°, 36°

Color Range 2700K – 1800K
3000K – 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. 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 MR16 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.

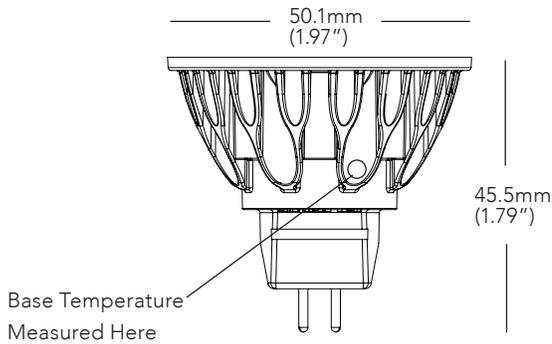
This light source produces greater than 2mW/klm of UV light and is intended only for high color and white rendering applications, where the UV light is required to activate optical brightening agents in illuminated objects.

CERTIFICATIONS

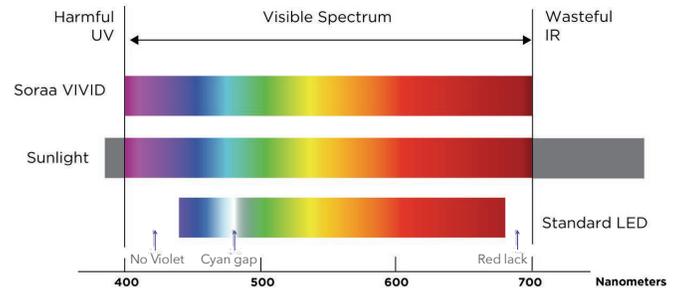
L/CUL Class 2 and non-Class 2, FCC Title 47 Part 15B, RoHS, CE



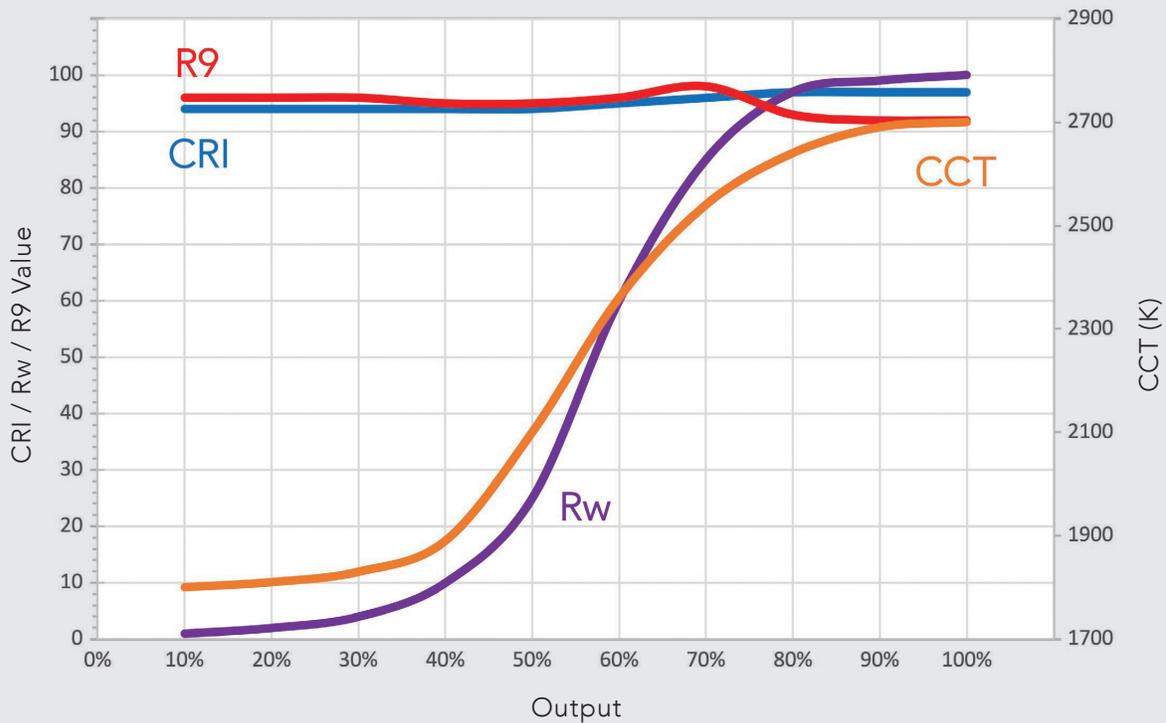
DIMENSIONS



COLOR RENDERING



WARM DIM COLOR METRICS



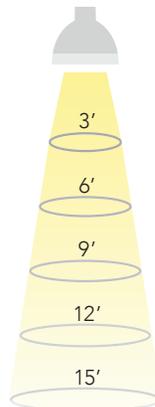
SORAA VIVID-warm dim shifts to pleasing, warm hues, as light intensity decreases, maintaining high color quality.

25 DEGREE BEAM

| Beam Dia at 50% CBCP (ft) | Field Dia at 10% CBCP (ft) | Foot-candles (% of CBCP) |
|---------------------------|----------------------------|--------------------------|
| 1.3 | 2.2 | 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 | 3.3 | 11.1% |
| 3.9 | 6.5 | 2.8% |
| 5.8 | 9.8 | 1.2% |
| 7.8 | 13.0 | 0.7% |
| 9.7 | 16.3 | 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 MR16 7.5W WARM DIM

| Model # | Product Code | CCT (K, full power) | Beam Angle | CBCP (Cd) | Total Flux (Lm) | Efficacy (Lm/W) | McA | 90deg Lumens |
|-------------------------|--------------|---------------------|------------|-----------|-----------------|-----------------|-----|--------------|
| VIVID SERIES | | | | | | | | |
| SM16-07-25DM-927/918-01 | 06619 | 2700K | 25 | 2050 | 410 | 55 | 3 | 385Lm |
| SM16-07-36DM-927/918-01 | 06621 | 2700K | 36 | 980 | 410 | 55 | 3 | 405Lm |
| SM16-07-25DM-930/918-01 | 06623 | 3000K | 25 | 2150 | 430 | 57 | 3 | 385Lm |
| SM16-07-36DM-930/918-01 | 06625 | 3000K | 36 | 1030 | 430 | 57 | 3 | 405Lm |

CCT: Correlated Color Temperature **McA**: White Point Accuracy in McA step

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

