





# MR16 GU10 9.5W 230

14E 100 Luca au

Output	465 - 490 Tumen
Beam Angle	25°, 36°, 60°
Color Temperature	2700K, 3000K
Color Metrics	CIE Metrics: CRI 95, R9 95 TM30 Metrics: Rf 90, Rg 100 Whiteness Index: Rw 100
Applications	Hotels & Hospitality Galleries & Museums High-End Retail

















## SORAA VIVID™

Soraa VIVID lamps offer beautiful and accurate color and white rendering across the entire visible spectrum, mimicking the natural range of sunlight to deliver unmatched quality of light for color critical applications.

## **POINT SOURCE OPTICS™**

Point Source Optics deliver exceptional beam quality with crisp shadows, perfect uniformity and precisely controlled beam distributions from 25° to 60°.

# SORAA VIVID COLOR™

Soraa VIVID lamps utilize full spectrum light to provide industry-leading color rendition of CRI/95, R9/95, Rf/90, Rg/100 for precise color reproduction.

# SORAA NATURAL WHITE™

Soraa VIVID lamps are engineered to deliver outstanding whiteness rendering for true-to-life whites, which matches or exceeds incandescent sources at 2700K and 3000K.

#### **ENERGY EFFICIENCY**

85% more energy efficient than standard halogen lamps, with typical payback of one year or less.

#### THERMAL COMPATIBILITY

Not suitable for enclosed, lensed, baffled, or recessed fixtures. Designed to safely turn down in high temperature environments to protect LED and components.

### **ELECTRICAL COMPATIBILITY**

Compatible with trailing edge phase cut dimmers only. Not for use with leading edge dimmers Check individual lamp website pages for compatibility data. For more information visit: www.soraa.com

# **INTENDED USE & LOCATION RATING**

Intended for use in MR16 GU10 compatible track lighting and other indoor applications. Suitable for damp locations, not rated for use in wet locations.

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.

#### **LIFETIME & WARRANTY**

Rated lifetime to L70: 35,000hrs

Warranty: 3yrs or 25,000hrs whichever comes first

For warranty information visit: www.soraa.com/resources/legal



RoHS





#### **GENERAL SPECIFICATIONS**

Form Factor **Operating Temperature** Width: 49.9mm (1.96") Minimum: -40°C (ambient) Height: 53.5mm (2.10") Typical: 90°C - 95°C (base)

Weight: 61g Maximum: 100°C (base) **Electrical** 

Wattage: 9.5W

Power factor: 0.80

Voltage: 230V +/- 23V

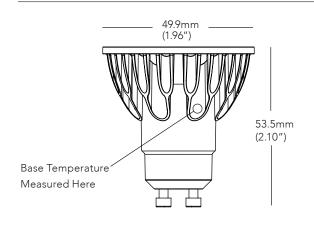
Frequency: 50/60Hz

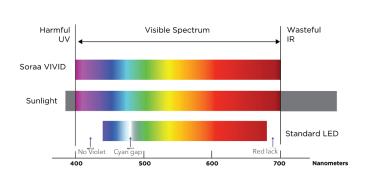
#### Dimming and Flicker

T24/JA8 compliant.

Please reference our compatibility chart for dimmer and transformer information.

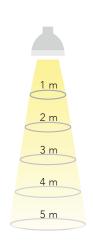
#### **COLOR RENDERING**





## **25 DEGREE BEAM**

Beam Dia at	Field Dia at	Lux
50% Intensity (m)	10% Intensity (m)	
0.4	0.7	100%
0.9	1.5	25%
1.3	2.2	11%
1.8	2.9	6%
2.2	3.6	4%

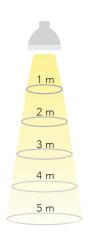


## **36 DEGREE BEAM**

Beam Dia at 50% Intensity (m)	Field Dia at 10% Intensity (m)	Lux (% of Intensity)
0.6	1.1	100%
1.3	2.2	25%
1.9	3.3	11%
2.6	4.3	6%
3.2	5.4	4%

## **60 DEGREE BEAM**

Beam Dia at 50% Intensity (m)	Field Dia at 10% Intensity (m)	Lux (% of Intensity)
1.2	1.8	100%
2.3	3.6	25%
3.5	5.4	11%
4.6	7.2	6%
5.8	9.0	4%

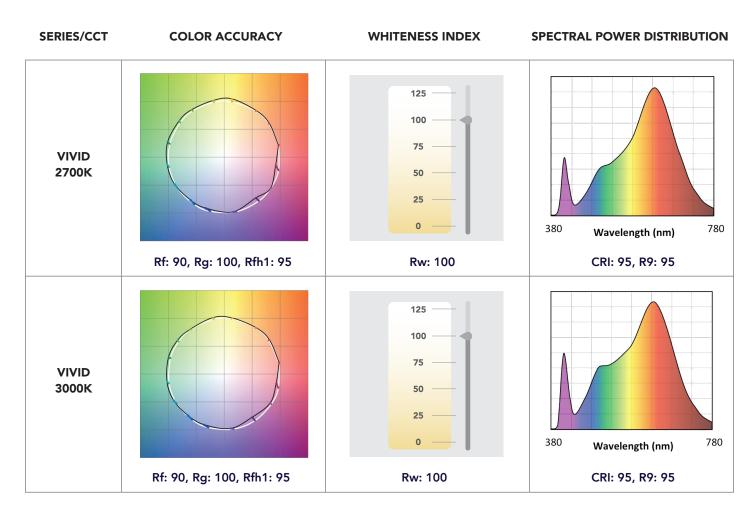


Note: Lux may be calculated by multiplying the Peak Intensity of the desired model number by the percentage in the tables above

#### SPECIFICATIONS BY MODEL NUMBER\* SORAA LED MR16-GU10 9.5W 230V

Model #	Product Code	CCT (K)	Beam Angle	Field Angle	Peak Intensity	Total Flux (Lm)	90° Lumens	Efficacy (Lm/W)	McA
VIVID SERIES									
SM16GW-09-25D-927-03-S3	01969	2700	25	38	2570	465	440	49	3
SM16GW-09-36D-927-03-S3	01977	2700	36	54	1210	465	425	49	3
SM16GW-09-60D-927-03-S3	01985	2700	60	84	470	465	425	49	3
SM16GW-09-25D-930-03-S3	01973	3000	25	38	2700	490	465	52	3
SM16GW-09-36D-930-03-S3	01981	3000	36	54	1280	490	450	52	3
SM16GW-09-60D-930-03-S3	01989	3000	60	84	500	490	450	52	3

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



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.

<sup>\*</sup>Specifications are at stable warm operating conditions (25°C ambient)