



MR16 CONSTANT CURRENT (18V)

OUTPUT RANGE: VIVID SERIES 440-515lumen

> **BEAM ANGLE RANGE** 10°, 25°, 36°

COLOR TEMPERATURE RANGE 2700K, 3000K, 4000K

> **APPLICATION** LED constant current lamp for

indoor applications











POINT SOURCE OPTICS

Exceptional beam control enables unique 10° narrow spot and smooth uniform beams

Single light source, single crisp shadow

SORAA VIVID COLOR AND NATURAL WHITE

VIVID series provides Soraa's industry-leading full spectrum output, with CRI >95, R9 >95, Rw >90, Rf >95, and Rg 100.

ENERGY EFFICIENCY AND LONG LIFE

Rated lifetime to L70: 35,000hrs

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

Detailed warranty information available at soraa.com/ resources/legal

CERTIFICATIONS

Weight: 44g



RoHS





HIGHLY COMPATIBLE

Fixture compatibility and driving current are subject to the lamp base temperature. Exceeding maximum ratings for operating and storage temperature will reduce expected life time or destroy the CC MR16 lamp, voiding the lamp warranty. The temperature at the base of the lamp must be measured at the point indicated on this specification sheet.

Geometrically compatible with standard MR16 fixtures

Not recommended for enclosed fixtures or for use with front glass cover

Suitable for damp locations

Compatible with the Soraa SNAP System™

INTENDED USE AND APPLICATIONS

Intended for use in MR16 compatible recessed downlights, track lighting and other indoor applications

Designed to work with external constant current drive

STORAGE CONDITIONS

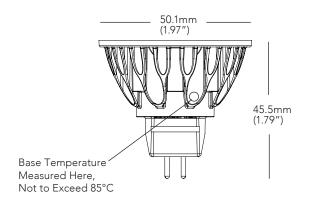
Maximum storage temperature of 90°C

GENERAL SPECIFICATIONS

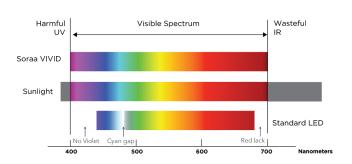
Form Factor Forward Voltage **Operating Temperature Operating Current*** Width: 50.1mm (1.97") Minimum: -40°C (ambient) Typical: 350mA Nominal: 18V DC Height: 45.5mm (1.79") Typical: 80-85°C (lamp base) Maximum*: 450mA Range: 17-19V DC

Maximum: 85°C (lamp base)

DIMENSIONS



COLOR RENDERING



10 DEGREE BEAM

PHOTOMETRICS: 95CRI, 3000K AT 450MA, 85°C

FHOTOWETRICS	. 73CKI, 3000K AI 4	IJUIVIA, 0J C	
Beam Dia at 50% CBCP (ft)	Field Dia at 10% CBCP (ft)	Foot-candles (% of CBCP)	
0.5	0.9	11.1%	1 m
1.0	1.8	2.8%	2 m
1.6	2.7	1.2%	3 m
2.1	3.6	0.7%	4 m
2.6	4.5	0.4%	5 m

25 DEGREE BEAM

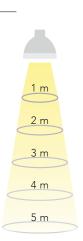
PHOTOMETRICS: 95CRI, 3000K AT 450MA, 85°C

Beam Dia at 50% CBCP (ft)	Field Dia at 10% CBCP (ft)	Foot-candles (% of CBCP)
1.3	2.1	11.1%
2.7	4.1	2.8%
4.0	6.2	1.2%
5.3	8.3	0.7%
6.7	10.3	0.4%

36 DEGREE BEAM

PHOTOMETRICS: 95CRI, 3000K AT 450MA, 85°C

Beam Dia at 50% CBCP (ft)	Field Dia at 10% CBCP (ft)	Foot-candles (% of CBCP)
1.9	3.1	11.1%
3.9	6.1	2.8%
5.8	9.2	1.2%
7.8	12.2	0.7%
9.7	15.3	0.4%



SPECIFICATIONS BY MODEL NUMBER* SORAA LED MR16 CONSTANT CURRENT

Model #	Product Code	CCT (K)	Beam Angle	Field Angle	CBCP (Cd)	Total Flux (Lm)	McA	SNAP
VIVID SERIES								
SM16C-CC2-10D-927-03	13331	2700	10	17	6500	440	3	YES
SM16C-CC2-25D-927-03	13327	2700	25	39	2600	465	3	-
SM16C-CC2-36D-927-03	13330	2700	36	54	1250	465	3	-
SM16C-CC2-10D-930-03	13326	3000	10	17	6800	465	3	YES
SM16C-CC2-25D-930-03	13325	3000	25	39	2700	490	3	-
SM16C-CC2-36D-930-03	13332	3000	36	54	1300	490	3	-
SM16C-CC2-10D-940-03	13337	4000	10	17	7100	485	3	YES
SM16C-CC2-25D-940-03	13340	4000	25	39	2850	515	3	-
SM16C-CC2-36D-940-03	13338	4000	36	54	1350	515	3	-

CCT: Correlated Color Temperature McA: White Point Accuracy in McA step SNAP: SORAA SNAP System Compatible EEI: Energy Efficiency Index *Specifications are at 450mA and 85°C body temperature

LIGHT OUTPUT NORMALIZED TO 450mA, 85°C

Current	Body Temperature				
	25°C	45°C	65°C	85°C	
80mA	0.19	0.19	0.19	0.18	
240mA	0.55	0.55	0.54	0.53	
300mA	0.72	0.71	0.70	0.69	
350mA	0.81	0.80	0.78	0.77	
400mA	0.89	0.88	0.86	0.85	
450mA	1.04	1.04	1.02	1.00	

