



L.T.F.

SunLight2 MR16 LED Bulb Series

**12V GU5.3 8W LED Halogen Replacement Bulbs
High CRI & R9, Single CCT 3000K & 2700K**

SunLight2



CCT	3000K, 2700K
Max. Tc	90° C
Ambient Temp.	-30°C to 35°C
Power Factor	0.95
CRI, R9	97+, 96+
Lumens	540 lm, 575 lm
Flicker Index	0.01
Percent Flicker	< 1%
Dimming	Phase Dimmable
InRush Cycle to Cycle	< 1 Amp



RoHS



FEATURES

- Direct replacement for halogen bulbs
- GU5.3 Base MR16
- High CRI 97+, R9 96+, R13 98+
- Low blue emission for circadian health
- Zero ultraviolet emission, won't fade colors
- Beam angles 15°, 24°, 36° or 60°
- Low flicker < 1%
- 30,000 hours rating
- 3 years / 25k hours warranty

APPLICATIONS

- Color-critical task lighting
- Residential & hospitality lighting
- Museum and gallery lighting
- Color-critical retail displays (e.g, apparel, groceries, hard goods & toys)
- Track lighting, new & retrofit
- Desk lamps
- Indoor and Outdoor



ELECTRICAL SPECIFICATIONS

Model Number	Input Voltage	CCT	Beam Angle	Lumens	Case Finishes
MR168W12V27K15	12V AC*	2700K	15°	540 lm	Silver, Black, White, Brass, Custom
MR168W12V27K24		2700K	24°	540 lm	
MR168W12V27K36		2700K	36°	540 lm	
MR168W12V27K60		2700K	60°	540 lm	
MR168W12V30K15		3000K	15°	575 lm	
MR168W12V30K24		3000K	24°	575 lm	
MR168W12V30K36		3000K	36°	575 lm	
MR168W12V30K60		3000K	60°	575 lm	

* Input voltage range 10V AC to 18V AC



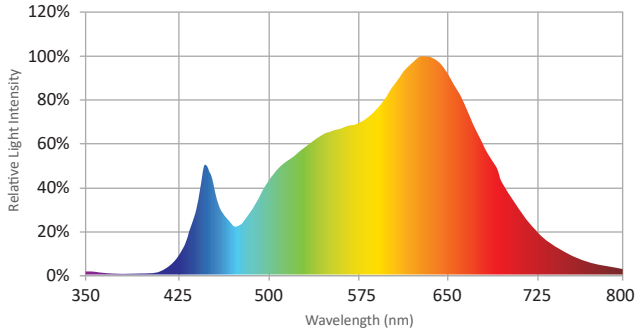
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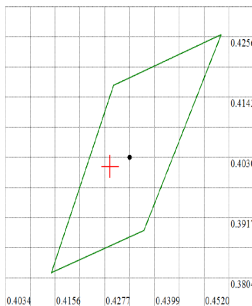
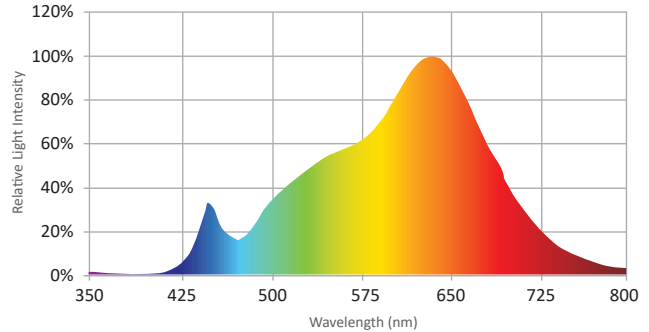
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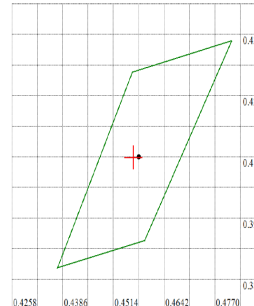
Relative Spectral Emission CCT 3000K



Relative Spectral Emission CCT 2700K

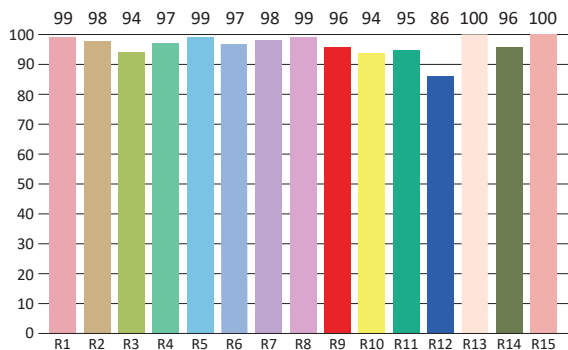


Nominal CCT: LED_3000K
 $x_0=0.4338$ $y_0=0.4030$
Chromaticity Coordinates:
 $x=0.4290$ $y=0.4013$
 $u'=0.2466$ $v'=0.5191$
Colour Fidelity Index: Rf=95
Gamut Index: Rg=102
Chromaticity Difference:
 $+0.00004D_{uv}$
Color Ratio:
 Kr=42% Kg=49.3% Kb=8.8%

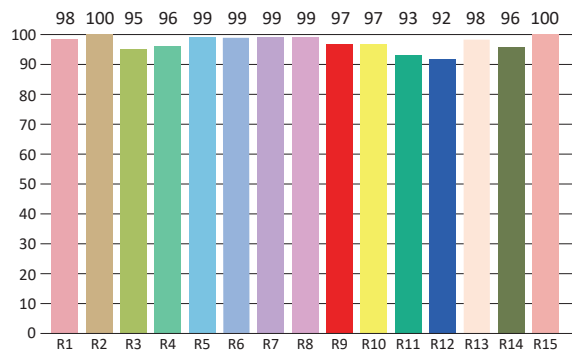


Nominal CCT: LED_2700K
 $x_0=0.4578$ $y_0=0.4101$
Chromaticity Coordinates:
 $x=0.4564$ $y=0.4100$
 $u'=0.2605$ $v'=0.5266$
Colour Fidelity Index: Rf=95
Gamut Index: Rg=102
Chromaticity Difference:
 $+0.00007D_{uv}$
Color Ratio:
 Kr=45.2% Kg=47.0% Kb=7.8%

CRI Test Results CCT 3000K



CRI Test Results CCT 2700K



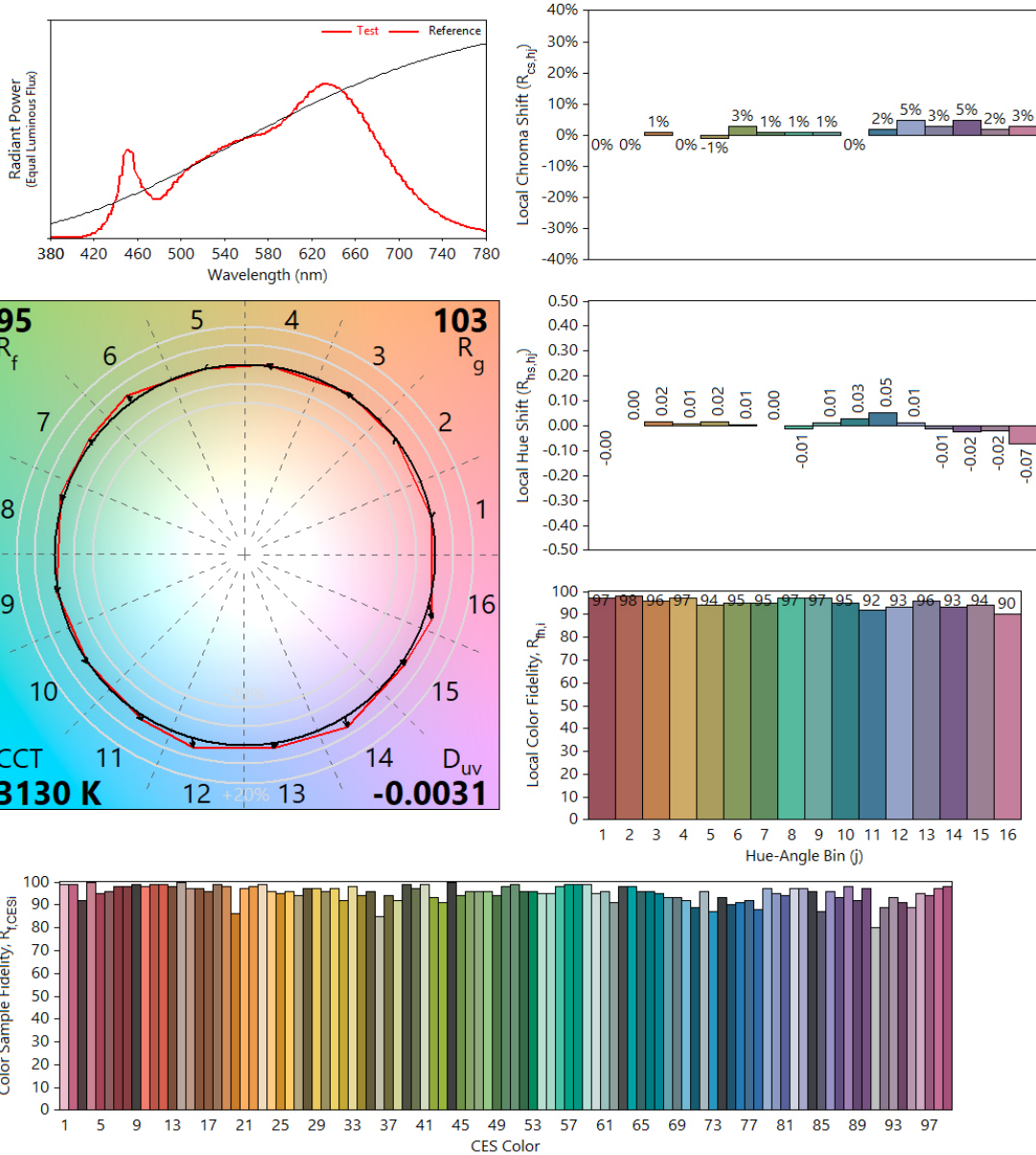


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IES TM-30-18 Report (3000K)



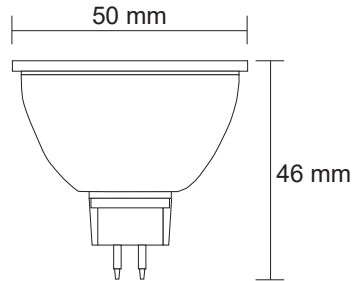


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MECHANICAL SPECS



RECOMMENDED LTF POWER SUPPLIES

Model Number	Wattage	Input	Output	IP Rating	FCC Compliant	Dimming
TA60WA12LED	60W	120V AC, 0.5A 50/60Hz	12V AC	IP60	No	ELV, Optional 0-10V
TA60WA12LED65B15				IP65	Yes	
TE60WA12LED65B15				IP65	Yes	