

LED MR16-GU10

UL Certified for Totally Enclosed Fixtures
50W Halogen Equivalent
Suitable for long hour lighting application



*Arrhenius Laws: For every 10 degree Centigrade decrease in operating temperature, the capacitor life is extended by a factor of two.

Product Features

- Replacement for 50W Halogen
- Up to 80% more efficient than comparable halogen lamps
- GU10 Base
- Standard dimension; retrofit to any GU10 based fixture.
- 2700K color temperature (Energy Star rated) for CRI>90 index
- 40° Beam angles plus optional 25° narrow flood beam angle
- 90 or 80 color rendering index options
- Support Dimming down to 10% on most dimmers
- Instant on- No warm-up period
- Guarantee 25,000 LED life hours, it will last 22.8 years based on 3 hours per day usage.
- Use 105°C and 10,000 life hours rated electrolytic capacitor
- Electrolytic capacitor's operating temperature: 87~90°C*
- Limited 10-year warranty

Energy Saving

Bulb Technologies	Annual Electricity Cost	Over 25,000 hours
50W Halogen	\$6.02	\$137.5
7W LED bulb	\$0.84	\$19.25
<i>Saving per bulb</i>	\$5.18	\$118.25

Based on 3 hours per day usage and \$0.11 per Kwh.

Application

- **The MR16-GU10 bulbs are rated for an ambient temperature of $\geq -20^{\circ}\text{C}$ to $\leq 70^{\circ}\text{C}$ inside the lamp fixtures while the ambient temperature outside the lamp fixtures must be $\geq -20^{\circ}\text{C}$ to $\leq 40^{\circ}\text{C}$**
- Tack and accent lighting for residential, retail, hospitality and office application
- Out-door fixtures that protect from elements and must be provided with waterproof gaskets.
- Suitable for totally enclosed fixtures at damp locations or dry locations

Technical Data

Models	CMMR-6502-9XX	CMMR-6502-8XX
Rated Wattage	7W	7W
Halogen Replacement	50W	50W
CRI	>90	>80
Beam Angles	40° (Energy Star rated) 25°	40° 25°
CCT options	2700K (Energy Star rated) 4000K*	2700K* 4000K*
Luminous Flux	520lm	570lm
Center Beam Intensity	1300 cd (40°) 2600 cd (25°)	1300 cd (40°) 2600 cd (25°)
UL Certified for totally enclosed fixtures	Yes	Yes
Input Voltage	100V-120V /60Hz	
Power Factor	>0.9	
Dimming*	10%-100%	
MOL	2.12"	2.12"

* Not Energy Star rated

Ordering Information

Model	Watt	CCT	Beam angles
CMMR-6502-9XX-ZZ	7W	XX = 27 for 2700K XX = 40 for 4000K	ZZ=FL (40° beam) ZZ =NF (25° beam)
CMMR-6502-8XX-ZZ	7W		

Packaging Information

Models	CMMR-6502
Single box dimension	2.02" x 2.02" x 2.87"
Single box quantity	1
Single box gross weight	0.17 lbs (78g)
Master Carton dimension	21.8" x 21.8" x 6.88"
Master Carton Q'ty	200 pcs
Master Carton Gross Weight	38.5 lbs (17.5kg)

Dimming Performance

Dimming compatibility was tested with the following dimmer brands from the dimmest level to the maximum brightness level and then from maximum brightness to the dimmest level.

Brand	Models	Dimming Range																		
		10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	90%	80%	70%	60%	50%	40%	30%	20%	10%
Lutron	CTCL-153P	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Blackout
	CT-603P	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect
	CTCL-153PDH-WH-C	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect
	SCL-153PH-WH-C	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect
	S-600P	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect
	DV-603P	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect
	DV-603PG	Blackout	Perfect	Brightness slightly reduced	Brightness slightly reduced	Brightness slightly reduced	Brightness slightly reduced	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect						
	D-600PH-DK	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect
	DVICL-153PH	Blackout	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect							
	TGCL-153PH	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect
	DV-603P	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect
	CTCL-153P	Blackout	Blackout	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Blackout						
	SZ-L	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect
T30	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	
Leviton	6615	Blackout	Blackout	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect							
	6672	Blackout	Blackout	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect							
	IPL06	Blackout	Blackout	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect							
	6633	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	
	6631	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	
Cooperat	9536AD-PI	Blackout	Blackout	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect							
	DLC03P	Blackout	Blackout	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect							
Legrand	341037-5/3	Flickering	Flickering	Flickering	Flickering	Flickering	Flickering	Flickering	Flickering	Flickering	Flickering	Flickering	Flickering	Flickering	Flickering	Flickering	Flickering	Flickering	Flickering	
	341042-05/13	Blackout	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect								
GE	18025	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	Perfect	

Perfect
 Flickering
 Brightness slightly reduced
 Blackout

UPC Information



Information provided is subject to change without notice. Please verify all details with Curtis Mathes. All values are design or typical values when measured under LM-79 laboratory conditions, and Curtis Mathes makes no warranty or guarantee, expressed or implied, that such performance will be obtained under end-use conditions

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