LED MR16-GU5.3



UL Certified for Totally Enclosed Fixtures 50W Halogen Equivalent High Color Rendering Index Options Dimming & Electronic transformers intensively tested

- Replacement for 50W Halogen
- UL certified for enclosed fixtures to prolong life span.
- Standard dimension; retrofit to any GU5.3 based fixture.
- Compatible with electronic/magnetic transformers
- 2700K/4000K color temperature options
- SKU in CRI>90 and 40° is Energy Star approval
- Dimmers and electronic transformers intensively tested
- Support Dimming down to 10%
- Instant on- No warm-up period
- UL certified for damp locations
- Guarantee 25,000 hours rated life, it will last 22.8 years based on 3 hours per day usage
- Limited 10-year warranty

Energy Saving

Bulb Technologies	Annual Electricity Cost	Over 25,000 hours
50W Halogen	\$6.02	\$137.5
7W LED MR16	\$0.84	\$19.25
Saving per bul	b \$5.18	\$118.25

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

Application

- Operating temperature range between -4 °F and +104 °F
- 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	CMMR53-6104-9XX	CMMR-6104-8XX	
Rated Wattage	7W	7W	
Halogen Replacement	50W	50W	
CRI	>90	>80	
Beam Angles	40° 25°	40° 25°	
ССТ	2700K (Energy Star) 4000K*	2700K* 4000K*	
Luminous Flux	450lm	520lm	
Center Beam Intensity	1300 cd @40° (Energy Star) 2600 cd @25°*	1300 cd @40°* 2600 cd @25°*	
UL Certified for totally enclosed fixtures	Yes Yes		
Input Voltage	12V DC/AC		
Dimming	10%-100%		
MOL	1.79" 1.79"		

Ordering Information

Model	Watt	ССТ	Beam angles
CMMR-6104-9XX-ZZ	7W	XX = 27 for 2700K	ZZ=FL (40° beam)
CMMR-6104-8XX-ZZ	7W	XX = 40 for 4000K	for 4000K ZZ =NF (25° beam)

Packaging Information

Models	CMMR53-6104	
Single box dimension	2.02" × 2.02" × 2.87"	
Q'ty per Single box	1	
Single box gross weight	0.13 lbs (63g)	
Master Carton dimension	21.8" × 21.8" × 6.88"	
Master Carton Q'ty	200 pcs	
Master Carton Gross Weight	31.9 lbs (14.5kg)	

UPC Information

* Not Energy Star rated





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Dimming and Electronic Compatibility

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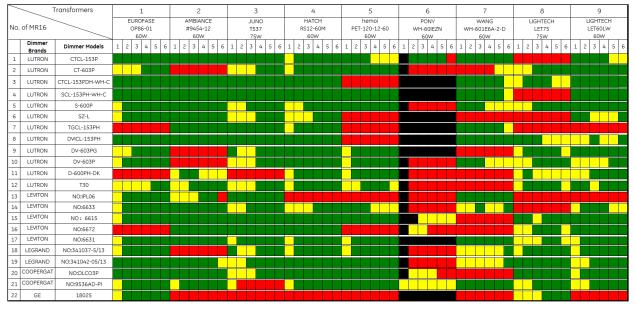
Transformer Compatibility

Curtis Mathes MR16-GU5.3 Dimmable bulb has an unique electronic solution embedded that makes this LED MR16-GU5.3 Replacement bulb compatible with the broadest possible range of standard 12VAC Halogen electronic transformers in the global market. Compatibility with electromagnetic transformers is guaranteed as well.

Dimmer Compatibility

- Given the vast diversity in dimmer types and dimmer quality, a 100% compatibility cannot be guaranteed

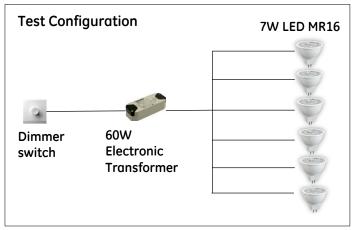
- Dimmer compatibility issues can include flickering lamps at certain dim level, audible noise (hum), higher light output at low dim level. Also the dimming performance may vary when a number of MR16-GU5.3 are connected with different transformers. Curtis Mathes LED MR16-GU5.3 bulbs are tested with more than 198 different mixes of transformers vs dimmers available in the market place, result is shown in following table.



Perfect, no flickering Fairly compatible but a small flickering is noticed at lower dim level

No light

Flickering clearly noticeable



Caution:

There is a limitation by the number of MR16 it can be connected to the electronic transformer. If the total MR16 power consumption is exceeding the transformer rated power, it will cause light blackout or flickering. Hence, we suggest the formula as follows:

Maximum number of MR16 = $\binom{Transformer\ rated\ power\ x\ 0.85}{MR16\ Rated\ power}$

For example of a 60W electronic transformer, seven MR16 bulbs are recommended

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Maximum number of MR16 = $\left(\frac{60x\ 0.85}{7}\right)$

7 (rounded)