# **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**

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

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"		

<sup>\*</sup> Not Energy Star rated

# **Ordering Information**

Model	Watt	ССТ	Beam angles
CMMR-6104-9XX-ZZ	7W	XX = 27 for 2700K XX = 40 for 4000K	, , ,
CMMR-6104-8XX-ZZ	7W		

# **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**





CMMR53-6104-840

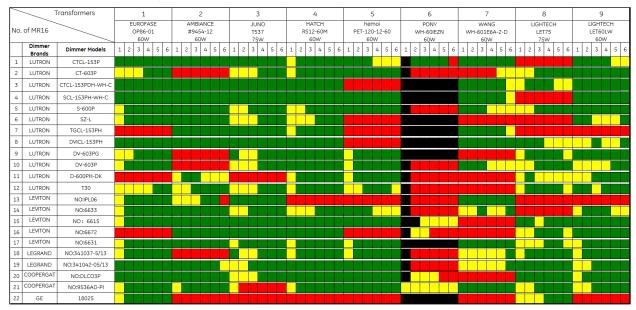
Curtis Mathes. Life | Always On.™

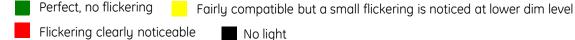
### Transformer Compatibility

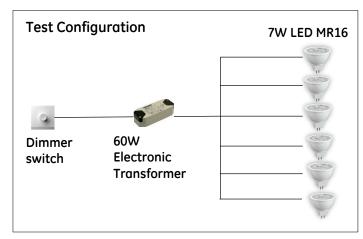
Curtis Mathes MR16-GU5.3 Dimmable bulb has an unique electronic solution embedded that makes this LED MR16-GU5.3 Replacement bulb compatible with the broadest possible range of standard 12VAC Halogen electronic transformers in the global market. Compatibility with electromagnetic transformers is guaranteed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







#### 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

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

7 (rounded)