



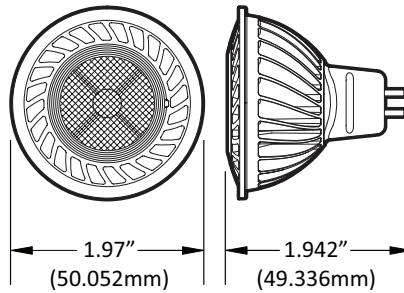
## DEFINITY™ MR16

### BENEFITS

- 6 Watts – 70% more efficient than comparable 20 Watt Halogen lamp.
- Maintenance free operation, lasts up to seven times longer than conventional lighting.
- Beam distributions of 25° and 40°.
- Available from 2700-5000K CCT.
- Dimmable, compatible with a wide array of AC, DC and magnetic or electronic transformers.<sup>3</sup>

### FEATURES<sup>1</sup>

Equivalent Source	Up to 20W Halogen
L70 lumen depreciation design criteria =	25,000 hours
Early Submission ENERGY STAR Life =	25,000 hours <sup>2</sup>
Housing	Aluminum
Socket	GU 5.3 base
Beam Spread	25°, 40°
Narrow Flood, Flood	
Operating Temperature	-20° C to +40° C
MOL	1.942 in, 49.336mm
Voltage	12VDC
Weight	0.11lbs., 0.05 kg
Warranty	3 year limited
Standards	UL1993, ETL, cETL File 3114191



Specifications supplied are nominal. Please refer to the DOE's Lighting Facts Tolerance Guidelines.

LM79 results based on 12 Volt DC source

<sup>1</sup> Values are nominal.

<sup>2</sup> Early Submission ENERGY STAR Life = 25,000 hours (L70 lumen depreciation design criteria = 50,000 hours.) For directional lamps, Energy Star early submission dictates that manufacturers can only claim 25,000 hour life with 3000 hour actual life test data, 6,000 hour LM80 data and in-situ temperature measurements. Once a product has been fully qualified, manufacturers may increase the lifetime of a product by demonstrating full compliance with the ENERGY STAR criteria at the new lifetime with Lumen Maintenance at the minimum required test period. Refer to Energy Star website.

<sup>3</sup> See attached transformer compatibility chart.

Non-compatible transformers may cause stroboscopic effect due to minimum load requirements of the transformer. This is not a lamp defect. LSG advises to change the transformer.



### ORDERING INFORMATION \ \ DFN 16 WW FL

Family	Product	Color (CCT)	Distribution
DFN Definity	16 MR16	W27 Warm White 2700K	FL 40° Flood
		WW Warm White 3000K	NFL 25° Narrow Flood
		NW Neutral White 4000K	
		CW Cool White 5000K	

CERTIFICATIONS  
NORTH AMERICA



ENVIRONMENT





## MR16 GU 5.3

Part Number	Base Type	Beam Angle <sup>1</sup>	Watts	Lumens	Efficacy	CRI	CBCP	ENERGY STAR <sup>2</sup>
DFN 16 NW NFL	GU 5.3	25	6W	295	49	85	982	✓
DFN 16 WW NFL	GU 5.3	25	6W	275	46	85	768	✓
DFN 16 W27 NFL	GU 5.3	25	6W	250	42	85	930	✓
DFN 16 CW NFL	GU 5.3	25	6W	424	71	67	1516	
DFN 16 NW FL	GU 5.3	40	6W	318	53	85	568	✓
DFN 16 WW FL	GU 5.3	40	6W	300	50	85	584	✓
DFN 16 W27 FL	GU 5.3	40	6W	250	42	85	487	✓
DFN 16 CW FL	GU 5.3	40	6W	424	71	67	860	

NFL: Narrow Flood FL: Flood NW: Neutral White WW: Warm White W27: Warm White 2700K CW: Cool White CBCP: Center Beam Candle Power

Specifications supplied are nominal. Please refer to the DOE's Lighting Facts Tolerance Guidelines.

<sup>1</sup>Values are nominal.

<sup>2</sup> Early Submission ENERGY STAR Life = 25,000 hours (L70 lumen depreciation design criteria = 50,000 hours.) For directional lamps, Energy Star early submission dictates that manufacturers can only claim 25,000 hour life with 3000 hour actual life test data, 6,000 hour LM80 data and in-situ temperature measurements. Once a product has been fully qualified, manufacturers may increase the lifetime of a product by demonstrating full compliance with the ENERGY STAR criteria at the new lifetime with Lumen Maintenance at the minimum required test period. Refer to Energy Star website.

### Cautions

- Turn power off before inspection, installation, or removal.
- Risk of Electric Shock – Do not use where directly exposed to water or weather.
- Suitable for Damp Locations.
- Not for use with AC transformers.
- Do not open – no user serviceable parts inside.
- This device is not intended for use with emergency exit fixtures or emergency exit lights.
- This device complies with Part 15 of the FCC rules and has been tested and found to comply with the limits for a Class B digital device. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. Any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.
- For compatible dimmers, see [www.LSGC.com/Library](http://www.LSGC.com/Library)

# MR16 Transformer Compatibility Chart

Brand	Model	Input Voltage (VAC/Hz)	Power Rating (W)	Type	Number of MR16s per Transformer					
					1	2	3	4	5	6
Advance	71A9743	120 VAC, 60 Hz	75	MT	G	G	G	G	G	G
Beal Pritchett (BP)	DINGO60	240V, 50Hz	60	ET	F	F	G	G	G	G
CHD	HUA1200600X2L	120 VAC, 60 Hz	60	ET	F	F	G	G	G	F
Crompton	CLED3	230-240 VAC, 50-60 Hz	12	ET	G	N/A	N/A	N/A	N/A	N/A
ELG	250LED100W	120 VAC, 60 Hz	100	ET	G	G	G	G	G	G
	250LED10W	120 VAC, 60 Hz	10	ET	G	N/A	N/A	N/A	N/A	N/A
	250AT075T	120 VAC, 60 Hz	75	MT	G	G	G	G	G	G
EYE LEDS	5011922UC	120 VAC, 60 Hz	10	ET	G	N/A	N/A	N/A	N/A	N/A
EYE LEDS	AZ09	230-240 VAC, 50-60 Hz	12	ET	G	N/A	N/A	N/A	N/A	N/A
Hatch	RS12-15M-LED	120 VAC, 50-60 Hz	15	ET	G	G	N/A	N/A	N/A	N/A
	PS12-20L	120 VAC, 60 Hz	20	ET	F	F	G	N/A	N/A	N/A
	RS12-30M-LED	120 VAC, 50-60 Hz	30	ET	G	G	G	G	N/A	N/A
	RS12-60M	120 VAC, 50-60 Hz	60	ET	F	F	F	G	G	G
	VSI2-60W	120 VAC, 50-60 Hz	60	ET	F	F	F	F	G	G
	VSI2-60WD	120 VAC, 50-60 Hz	60	ET	F	G	G	G	G	F
	RS12-80M	120 VAC, 50-60 Hz	80	ET	F	F	F	G	G	G
Hermosa	RS12-60M-LED	120 VAC, 50-60 Hz	60	ET	G	G	G	G	G	G
	ET105B60	230V, 50Hz	60	ET	G	G	G	G	G	G
IST	IDM011152	230-240 VAC, 50-60 Hz	11	ET	G	N/A	N/A	N/A	N/A	N/A
LCI	i60e	230 VAC, 50-60 Hz	60	ET	F	F	G	G	G	G
Lightech	LET-60	120 VAC, 50-60 Hz	60	ET	F	F	F	F	F	F
	LET-75	120 VAC, 50-60 Hz	75	ET	F	F	F	F	F	F
Ligro	E12SC50SA	230 VAC	50	MT	F	G	G	F	G	F
Luxalite	GD32LH	220-240 VAC, 50-60 Hz	55	ET	G	G	G	G	G	G
Lumex	MTR50/12 EN-61558	220VAC, 50 Hz	50	MT	G	G	G	G	G	G
MDL	319-0103	120 VAC, 50-60 Hz	10	ET	G	N/A	N/A	N/A	N/A	N/A
Mirano	BLNET-L50C 50W	220 VAC, 50-60Hz	50	ET	G	G	G	G	G	G
Niko	320-00112	230 VAC, 50 Hz	105	ET	F	G	G	F	G	F
Nobile	EN-80D	230 VAC, 50-60 Hz	80	ET	G	G	G	G	G	G
	EN-80D2	230 VAC, 50-60 Hz	80	ET	G	G	G	G	F	F
	EN-110D	230 VAC, 50-60 Hz	110	ET	G	G	G	G	G	G
	EN-110D2	230 VAC, 50-60 Hz	110	ET	F	F	F	F	F	F
Osram	ET-REDBACK	230-240 VAC, 50-60 Hz	60	ET	G	G	G	G	G	G
	HTM 150/230-240	230-240 VAC, 50-60 Hz	150	ET	G	G	G	G	G	G
Philips	Primaline 105 230-240	230-240 VAC, 50-60 Hz	105	ET	G	G	G	G	G	G
	Xitanium 10W Dimmable	220-240 VAC, 50-60 Hz	10	ET	G	N/A	N/A	N/A	N/A	N/A
	ET-S60220-240	220-240 VAC, 50-60 Hz	60	ET	F	F	F	F	F	F
	9137-100-536	220-240 VAC, 50-60 Hz	10	ET	G	N/A	N/A	N/A	N/A	N/A
	9137-100-538	220-240 VAC, 50-60 Hz	30	ET	G	G	G	G	N/A	N/A
Sunrise	H0050-497	120 VAC, 50-60 Hz	50	MT	G	G	G	G	G	G
Teca	100D8512S	120VAC, 60 Hz	100	MT	G	G	G	G	G	G
Tridonic	TM50-2	240VAC, 50-60Hz	50	MT	G	G	G	G	G	G
	VIPER 22176074	230-240 VAC, 50-60 Hz	105	ET	F	G	G	F	F	F
	VIPER 22176072	230-240 VAC, 50-60 Hz	105	ET	F	F	F	F	F	G
	Possum	230-240 VAC, 50-60 Hz	3.45	ET	F	F	F	F	F	F
VadsBO	SET70RE-1	220-240 VAC, 50 Hz	70	ET	F	F	F	G	F	G
Vike	VB60PL	230-240 VAC, 50-60 Hz	60	ET	G	G	G	G	G	F
Vossloh Schwabe	EST 70/12.380	230-240 VAC, 50-60 Hz	70	ET	F	F	F	F	F	F
	EST 105/12.381	230-240 VAC, 50-60 Hz	105	ET	F	F	G	G	G	G
	EST 150/12.622	230-240 VAC, 50-60 Hz	150	ET	G	G	G	G	G	F
WAC	EN-12100-R-AR	120 VAC, 50-60 Hz	100	ET	G	G	G	G	G	G
Wang	WH-60IE2CA-2L	120 VAC, 60 Hz	60	ET	F	F	G	G	G	F

Et - Electronic Transformer MT - Magnetic Transformer G - Good F - Flickers N/A - Exceeds Transformer Recommended Power



Preliminary. Specifications are typical values and may change without notification.  
Copyright © Lighting Science Group Corporation 2011 All rights reserved.