

BUY vs SELL

At Toshiba, we don't want to just sell you lamps. We want you to buy into us. As an industry leader in Japan, Toshiba has over 120 years of lighting experience and a limitless knowledge of electronics. We are uniquely qualified to create superior LED lighting products because we're not a lighting company trying to learn the electronics business or an electronics company trying to learn the lighting business. We've been doing both for over a century. Plus, we are 100% focused on LED lighting technology. So when you really think about it, you're not just buying a lamp – you're buying a brand you can trust.

MR16 GU5.3 450 Series

- Direct replacement for 35-watt halogen lamps
- Available in 25° & 35° beam angles
- Available in 2700K, 3000K, & 4000K color temperatures
- Dimmable
- Lasts up to 20 times longer & uses up to 80% less energy than halogen lamps
- Emits up to 70% less UV light compared to halogen lamps
- Designed to fit most gimbal rings
- Rated for both damp locations & enclosed fixtures
- Contains no mercury or lead

Learn more at toshiba.com/lighting.
Toshiba LED Lighting. Ready for Work.



TOSHIBA
Leading Innovation >>>

Project:	Toshiba Lamp:
Type:	Notes:

Ordering Information

Ordering Code	Input Voltage VAC	Lamp Shape	Base Type	Wattage W	CCT ¹	Beam Angle	Initial Lumens lm ²	Lamp Efficacy lm/W	Rated Life hrs ³	CBCP cd	CRI	Power Factor	Equivalency ⁴	Lamp Weight lbs. (g)
9MR16/27FNF-UP	12	MR16	GU5.3	9.0	2700K	25°	410	45.6	25,000	1810	84	> 0.75	35W	0.2 (91)
9MR16/27FFL-UP	12	MR16	GU5.3	9.0	2700K	35°	415	46.1	25,000	990	84	> 0.75	35W	0.2 (91)
9MR16/30FNF-UP	12	MR16	GU5.3	9.0	3000K	25°	440	48.9	25,000	1900	84	> 0.75	35W	0.2 (91)
9MR16/30FFL-UP	12	MR16	GU5.3	9.0	3000K	35°	445	49.4	25,000	1040	84	> 0.75	35W	0.2 (91)
9MR16/40FNF-UP	12	MR16	GU5.3	9.0	4000K	25°	470	52.2	25,000	2030	85	> 0.75	35W	0.2 (91)
9MR16/40FFL-UP	12	MR16	GU5.3	9.0	4000K	35°	475	52.8	25,000	1110	85	> 0.75	35W	0.2 (91)

1. CCT range complies with ANSI C78.377-2008

2. Thermally stable typical lumens (±10%)

3. Rated life is based on 70% lumen maintenance and engineering testing and probability analysis

4. Equivalency based on the Energy Star® Integral LED Lamp Program

Note: All Information consistent with IESNA LM-80-08 results and IESNA LM-79-08 testing completed by a qualified third party facility

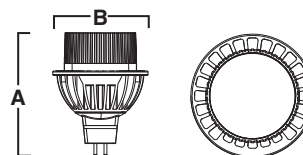
Note: All lamps meet Energy Star® Integral LED Lamp requirements and will be submitted for testing

Note: Five-year warranty for MR16 GU5.3 based on 12 hr/day usage



Dimensions

Model	MOL (A) in. (mm)	Diameter (B) in. (mm)
MR16 25° Narrow Flood	2.54 (65)	1.97 (50)
MR16 35° Flood	2.54 (65)	1.97 (50)

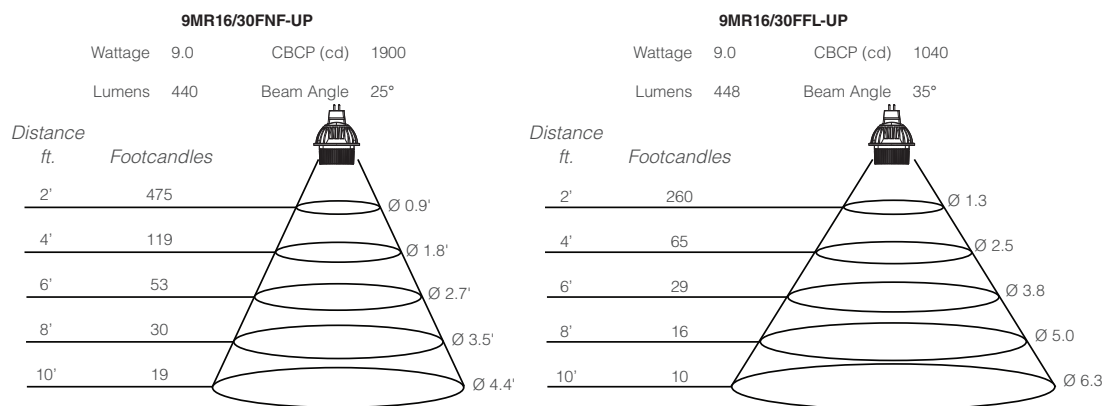


25° Narrow Flood & 35° Flood

Note: Lamp shape conforms to ANSI C78.21-2003

Note: Designed to comply with RoHS Directive 2002/95/EC

Illuminance Cone Diagrams



Energy Savings

	20W Halogen	25W Halogen	35W Halogen	50W Halogen
9MR16/30FNF-UP	\$30.25	\$40.00	\$71.50*	\$112.75
9MR16/30FFL-UP	\$30.25	\$40.00	\$71.50*	\$112.75

*Actual equivalent replacement based on the Energy Star® Integral LED Lamp Program

Note: Energy savings based on using one bulb for 25,000 hr rated life at 11¢/kWh; Does not include maintenance and replacement lamp savings

Ordering Guide

6	MR16	/	27	F	—	UP
Wattage 9.0 Watts = 9	Lamp Type MR16 GU5.3 = MR16		CRI + CCT 2700K = 27 3000K = 30 4000K = 40	450 Series = F		NF = Narrow Flood FL = Flood US Professional Package = UP