

# **SYNERGY™** by **USHIO**



## **WORLD'S MOST EFFICIENT LED MR-16**

**Synergy:** The interaction of two or more agents or forces so that their combined effect is greater than the sum of their individual effects.

**Synergy by USHIO:** The culmination of USHIO's breakthrough combination of patented optical technology, LED packaging techniques, unique electronics and superior thermal management in the World's First Truly Usable LED MR-16 Product!

From the world leader in MR-16 lamp technology comes the world's most efficient solid state LED MR-16 lamp. Synergy's state-of-the-art technology allows this 4W LED MR-16 to directly replace 20-25W halogen MR-16s. No false claims, just outstanding performance that yields 80% energy savings. In fact, Synergy is the first LED MR-16 lamp to meet the efficiency requirements of California's stringent Title 24 regulations.

Rated at 50,000 hours, Synergy has a true life rating of more than 10 times that of standard MR-16 lamps on the market today. Synergy is the premium choice for those applications where frequency of lamp changes and cost of ownership are significant factors.

Available in Spot (12°), Narrow Flood (24°), Flood (34°) and Wide Flood (50°) beam spreads.

### **FEATURES & BENEFITS**

80% Energy Savings vs. Halogen MR-16

Long Life: 50,000 Hours

Direct Replacement for Halogen MR-16\*

Application Grade: Truly Usable Light

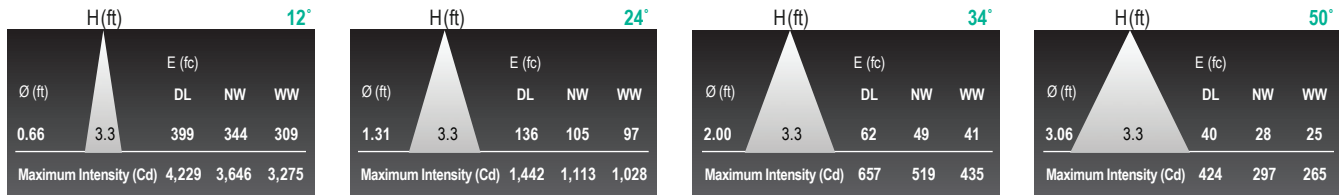
Fully Dimmable

Cool Beam – Cool Operation

Application Friendly: UV Free, IR Free

Environmentally Friendly: Mercury Free,

Lead Free, RoHS Compliant



Graphs: DL = Daylight, NW = Neutral White, WW = Warm White

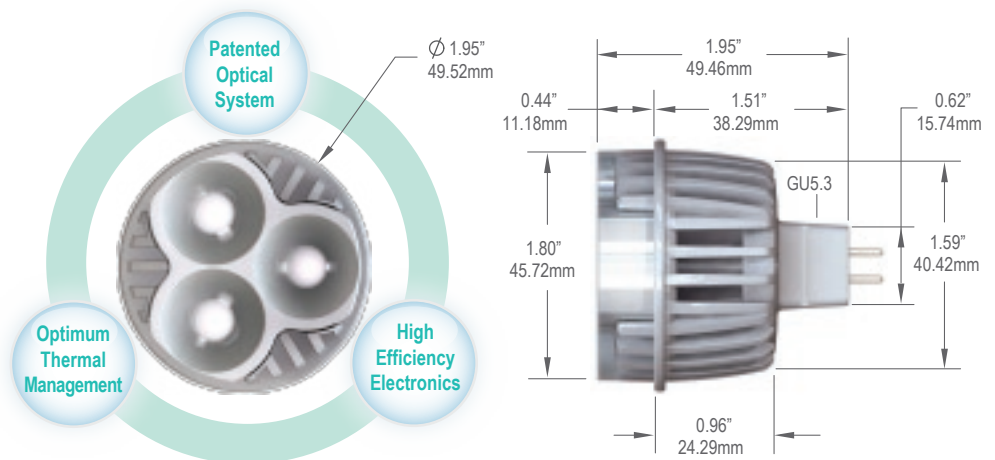
Color temperature and output specification measurements are taken at steady state operating conditions in open air with an ambient temperature of 25°C. Daylight White 5,600K available on special order. Call for information and minimum order quantities.

Watts (W)	USHIO Order Code	USHIO Lamp Description	Voltage (V)	Color Temp (K)	CRI	Beam Spread	Beam Angle
4	1003601	Synergy MR16, SP12, DL	12	6,500	70	Spot	12°
4	1003602	Synergy MR16, NFL24, DL	12	6,500	70	Narrow Flood	24°
4	1003603	Synergy MR16, FL34, DL	12	6,500	70	Flood	34°
4	1003604	Synergy MR16, WFL50, DL	12	6,500	70	Wide Flood	50°
4	1003609	Synergy MR16, SP12, NW	12	4,200	80	Spot	12°
4	1003610	Synergy MR16, NFL24, NW	12	4,200	80	Narrow Flood	24°
4	1003611	Synergy MR16, FL34, NW	12	4,200	80	Flood	34°
4	1003612	Synergy MR16, WFL50, NW	12	4,200	80	Wide Flood	50°
4	1003605	Synergy MR16, SP12, WW	12	3,100	80	Spot	12°
4	1003606	Synergy MR16, NFL24, WW	12	3,100	80	Narrow Flood	24°
4	1003607	Synergy MR16, FL34, WW	12	3,100	80	Flood	34°
4	1003608	Synergy MR16, WFL50, WW	12	3,100	80	Wide Flood	50°

The specifications on this sheet supersede all previously published specifications and may be subject to change for design and specification improvement without prior notice.

### Applications:

- Track Lighting
- Recessed Lighting
- Accent Lighting
- Landscape & Pathway Lighting
- Display Case and Cabinet Lighting
- Art Gallery and Museum Lighting



Distributed by:

\* Units may not operate with AC integral transformers due to low power consumption.