

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

WORLD'S MOST EFFICIENT LED MR-16

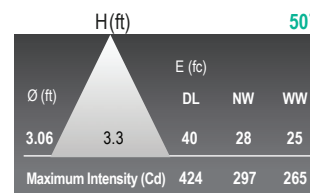
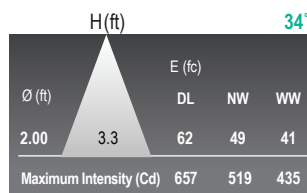
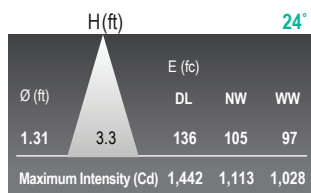
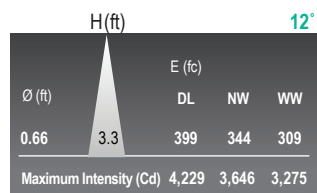
Synergie by USHIO: The culmination of USHIO's breakthrough combination of patented optical technology, LED packaging techniques, unique electronics and superior thermal management in the World's First Truly Usable LED MR-16 product!

From the world leader in MR-16 lamp technology comes the world's most efficient solid state LED MR-16 lamp. Synergie'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, Synergie is the first LED MR-16 lamp to meet the efficiency requirements of California's stringent Title 24 regulations.

Rated at 50,000 hours, Synergie has a true life rating of more than 10 times that of standard MR-16 lamps on the market today. Synergie 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.

USHIO



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

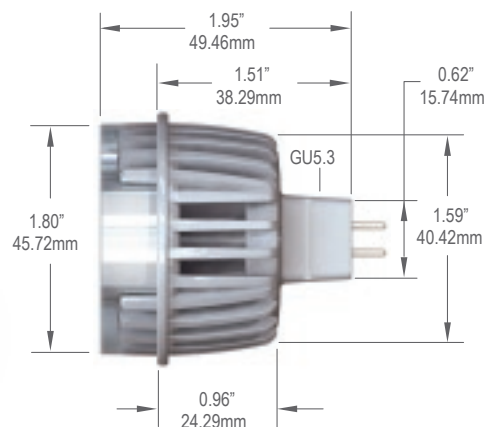
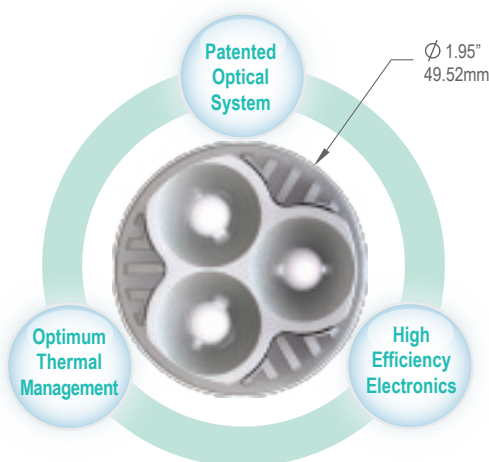
Color temperature and output specification measurements are taken at steady state operating conditions in open air with an ambient temperature of 25°C. Daylight White 5,600K available on special order. Call for information and minimum order quantities.

| Watts (W) | USHIO Order Code | USHIO Lamp Description | Voltage (V) | Color Temp (K) | CRI | Beam Spread | Beam Angle | Minimum Luminous Flux ** |
|-----------|------------------|--------------------------|-------------|----------------|-----|--------------|------------|--------------------------|
| 4 | 1003601 | Synergie MR16, SP12, DL | 12 | 6,500 | 70 | Spot | 12° | 230 |
| 4 | 1003602 | Synergie MR16, NFL24, DL | 12 | 6,500 | 70 | Narrow Flood | 24° | 240 |
| 4 | 1003603 | Synergie MR16, FL34, DL | 12 | 6,500 | 70 | Flood | 34° | 240 |
| 4 | 1003604 | Synergie MR16, WFL50, DL | 12 | 6,500 | 70 | Wide Flood | 50° | 250 |
| 4 | 1003609 | Synergie MR16, SP12, NW | 12 | 4,200 | 80 | Spot | 12° | 170 |
| 4 | 1003610 | Synergie MR16, NFL24, NW | 12 | 4,200 | 80 | Narrow Flood | 24° | 175 |
| 4 | 1003611 | Synergie MR16, FL34, NW | 12 | 4,200 | 80 | Flood | 34° | 175 |
| 4 | 1003612 | Synergie MR16, WFL50, NW | 12 | 4,200 | 80 | Wide Flood | 50° | 180 |
| 4 | 1003605 | Synergie MR16, SP12, WW | 12 | 3,100 | 80 | Spot | 12° | 150 |
| 4 | 1003606 | Synergie MR16, NFL24, WW | 12 | 3,100 | 80 | Narrow Flood | 24° | 160 |
| 4 | 1003607 | Synergie MR16, FL34, WW | 12 | 3,100 | 80 | Flood | 34° | 160 |
| 4 | 1003608 | Synergie MR16, WFL50, WW | 12 | 3,100 | 80 | Wide Flood | 50° | 170 |

The specifications on this sheet supercede 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.

** Minimum lumen output values as measured in an integrating sphere.