Uphoria™ LED MR16 lamps incorporate the highest quality Cree LEDs, a customized optical design, and unsurpassed thermal management characteristics to provide outstanding efficiency, life, and quality. At 6.5 watts in a standard MR16 form factor, Uphoria series LED lamps incorporate a state-of-the-art Cool-Blade™ heat sink design that guarantees reliability and stability through proper thermal management.

Uphoria’s Cool-Blade technology was originally developed for the aerospace industry and the military and as a way of providing superior heat transfer for computer servers and intricate electronics that require premium thermal management in a very lightweight product. This same technology is incorporated into every Uphoria MR16 lamp where individual, high-density aluminum cooling blades draw damaging heat away from the LED’s creating an ideal operating environment for the chipsets. The thermal management is so superior that these lamps have been UL listed for use in fully enclosed fixtures. Less heat means a longer life for LED’s and Ushio is proud to stand behind its high performance Uphoria lamps with a 3-year limited warranty and a rated life of 35,000 hours.

Rated at more than 10 times the life of standard halogen MR16 lamps on the market today, Uphoria is the intelligent choice for those applications where frequency of lamp changes and cost of ownership are significant factors. Uphoria LED MR16 lamps are available in Narrow Flood (20°), Flood (35°) and Wide Flood (60°) beam spreads and in Warm White (3000K) or Daylight (5700K) color temperatures.

FEATURES & BENEFITS
- 80% Energy Savings vs. Halogen MR16
- Proprietary Cool-Blade™ Aluminum Heat Sink
- Proprietary Driver Designed for Optimal Thermal Management
- Very Tight Color Binning for Lamp-to-Lamp Consistency
- Long Life: 35,000 Hours
- Application Friendly: UV Free & IR Free
- Environmentally Friendly: Mercury Free, Lead Free and RoHS Compliant
- For Use in Enclosed Fixtures
- 3-Year Limited Warranty

APPLICATIONS
- Track Lighting
- Recessed Lighting
- Art Gallery & Museum Lighting
- Landscape Lighting
- Accent Lighting
- Display Case Lighting

www.ushio.com | customerservice@ushio.com
### Specifications & Photometrics

**GU5.3 Base**

- **Watts:** 6.5W
- **Ordering Code:** 1002483, 1002484, 1002485, 1002486, 1002487, 1002488
- **Lamp Description:** UPHORIA LED MR16, NFL20, WW30, NFL20, DL57, WFL60, WW30, FL35, WW30, WW30, WFL60, DL57

<table>
<thead>
<tr>
<th>Watts (W)</th>
<th>Ordering Code</th>
<th>Lamp Description</th>
<th>Volts (V)</th>
<th>Color Temp (K)</th>
<th>Beam Angle</th>
<th>Beam Spread</th>
<th>Lumens* (lm)</th>
<th>CBCP* (cd)</th>
<th>CRI</th>
<th>Avg** Life (h)</th>
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<tbody>
<tr>
<td>6.5</td>
<td>1002483</td>
<td>UPHORIA LED MR16, NFL20, WW30</td>
<td>12</td>
<td>3000</td>
<td>20°</td>
<td>Narrow Flood</td>
<td>325</td>
<td>1586</td>
<td>80</td>
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<td>1002485</td>
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<td>60°</td>
<td>Wide Flood</td>
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<td>80</td>
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<td>1002488</td>
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<td>5700</td>
<td>60°</td>
<td>Wide Flood</td>
<td>470</td>
<td>400</td>
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<td>35000</td>
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</table>

* Photometric data is based on LM-79 tests performed at 12V AC.
** Average life based on 70% lumen maintenance. LM-80 data available.

### Electrical Specifications:

- **Driver:** High Efficiency
- **Operating Voltage Range:** 8V to 17V AC or DC
- **Power Factor:** > 0.8
- **Dimming:** Not designed for operation on dimming systems

### CAUTIONS:

- Not designed for dimming systems.
- Suitable for dry and damp locations.
- Not for use in emergency or exit lighting.

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**CALIFORNIA PROPOSITION 65 WARNING:** These products can expose you to chemicals including Phthalates, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).
Polar Candela Distribution Charts

3000K

- **Item 1002483**
- **Item 1002484**
- **Item 1002485**

5700K

- **Item 1002486**
- **Item 1002487**
- **Item 1002488**

Spectral Distribution Charts

3000K

- **Item 1002483**
- **Item 1002484**
- **Item 1002485**

5700K

- **Item 1002486**
- **Item 1002487**
- **Item 1002488**
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<thead>
<tr>
<th>Item</th>
<th>Bulb Type</th>
<th>Color Temperature</th>
<th>Brightness/Luminosity</th>
<th>Energy Used/Energie utilisée</th>
<th>Lifetime/Vie</th>
<th>Light Appearance/Apparence de l’éclairage</th>
<th>Estimated Yearly Energy Cost/Coût énergétique annual estimé</th>
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<td>1002483</td>
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<td>3000K</td>
<td>325 lumens</td>
<td>6.5 watts</td>
<td>32 years/ans</td>
<td>Warm/Chaud</td>
<td>$0.78</td>
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<td>5700K</td>
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<td>6.5 watts</td>
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<td>3000K</td>
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<td>6.5 watts</td>
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<td>Warm/Chaud</td>
<td>$0.78</td>
</tr>
<tr>
<td>1002486</td>
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<td>6.5 watts</td>
<td>32 years/ans</td>
<td>Warm/Chaud</td>
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<td>1002487</td>
<td>6.5W LED MR16, FL35, DL57</td>
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<td>6.5 watts</td>
<td>32 years/ans</td>
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</tr>
<tr>
<td>1002488</td>
<td>6.5W LED MR16, WFL60, DL57</td>
<td>3000K</td>
<td>470 lumens</td>
<td>6.5 watts</td>
<td>32 years/ans</td>
<td>Warm/Chaud</td>
<td>$0.78</td>
</tr>
</tbody>
</table>

CAUTION:

Lamp may not be compatible with all dimmers and transformers. Check www.ushio.com to find up to date dimmer and transformer compatibility options. Use only 12V AC circuits. Do not open. No user serviceable parts inside. Suitable for damp locations. Use is not recommended where exposed to weather. Outdoor usage requires an enclosed fixture. Meets UL 1993 safety rating for totally enclosed fixtures. Recommended lamp housing temperature is 170°F or below. Reliable operating environment temperature is -4°F to 113°F. Lamp is not intended for use with emergency exit fixtures, emergency exit lights, photo controls or electric timers. Lamp complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) device may not cause harmful interference, and (2) device must accept any interference received, including interference that may cause undesired operation.