

# ATHENS

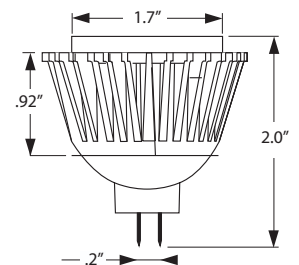
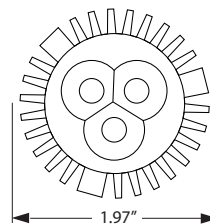


|                             |                |
|-----------------------------|----------------|
| <i>Type</i>                 | <i>Wattage</i> |
| <b>MR-16</b>                | <b>5 Watt</b>  |
| <b>Max lumen output 229</b> |                |

- MR-16 comparable to a 35W Halogen bulb
- Low energy consumption; 5 Watts
- Life span up to 80,000 hours!
- Dimmable using LED dimming controller

|                               |  |
|-------------------------------|--|
| <b>Power Consumption</b>      | LEDs: 4Watt, Total: 5Watt  |
| <b>Comparable Bulb</b>        | 35W Halogen (MR-16)  |
| <b>LED Chip</b>               | 1.3-Watt Cree® XLamp® XRE LEDs (3 LEDs)  |
| <b>Cool White</b>             | Lamp output: 229 Lumen (LED: 270 Lumen)  |
| <b>Warm White</b>             | Lamp output: 184 Lumen (LED: 240 Lumen)  |
| <b>Beam Angle</b>             | Spot (12°), Narrow (26°), Wide (Approx. 88°)   |
| <b>Bulb / Socket Type</b>     | MR-16 / GU5.3 bipin  |
| <b>Color Temperature</b>      | Cool white (5500~6500K) Warm white (2580-3500K)<br>Neutral white (4000~4500K) (special order only) |
| <b>Life Span</b> <sup>2</sup> | 80,000 hours (max)   |
| <b>Voltage</b> <sup>1</sup>   | 12 Volt (DC and AC)  |
| <b>Number of LEDs</b>         | 3 LEDs   |
| <b>Housing</b>                | Aluminum   |
| <b>Operating Temperature</b>  | -40°C ~ 40°C   |

1 - Best used with 12V DC transformer. Not compatible with 12V AC electronic transformer  
 2 - Used in 25°C ambient temperature. At 80,000 Hours, the LED bulb brightness is at half of the initial light output.



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## LUX & Spot Diameter Table

| Sku #                | Color Temp | Beam Spread        | Candela<br>cd/klm | Illumination (Lux)/Spot Diameter |               |          |          |         |         |         |
|----------------------|------------|--------------------|-------------------|----------------------------------|---------------|----------|----------|---------|---------|---------|
|                      |            |                    |                   | 30cm                             | 50cm          | 100cm    | 150cm    | 200cm   | 250cm   | 280cm   |
| LW10-2000-A3-C4S-W5K | Cool White | Spot (12°)         | 4380cd/klm        | >20000LUX                        | 14520LUX      | 4380LUX  | 1810LUX  | 997LUX  | 690LUX  | <690LUX |
| LW10-2000-A3-C4A-W5K | Cool White | Narrow (26°)       | 606cd/klm         | 7330LUX/ø30m                     | 2510LUX/ø50cm | 606LUX   | 264LUX   | 150LUX  | 89.5LUX | 73.3LUX |
| LW10-2000-A3-C4G-W5K | Cool White | Wide (Approx. 88°) | 118cd/klm         | 1200LUX                          | 431LUX        | 118LUX   | 75LUX    | 31LUX   | 18.8LUX | 12.2LUX |
| LW10-2000-A3-C4S-W3K | Warm White | Spot (12°)         | 3270cd/klm        | >20000LUX                        | 12170LUX      | 3270LUX  | 1508LUX  | 850LUX  | 547LUX  | <547LUX |
| LW10-2000-A3-C4A-W3K | Warm White | Narrow (26°)       | 472.6cd/klm       | 5717LUX/ø30m                     | 1957LUX/ø50cm | 472.6LUX | 205.9LUX | 117LUX  | 69.8LUX | 57.1LUX |
| LW10-2000-A3-C4G-W3K | Warm White | Wide (Approx. 88°) | 96.8cd/klm        | 905LUX                           | 340LUX        | 96.8LUX  | 41.2LUX  | 28.8LUX | 23.6LUX | 10.8LUX |