Omnidirectional Miniature Lamp Specifications 2700K

With true 360° light output, Illumicare Group Limited’s miniature LED lamps fit into thousands of existing landscape path and area lighting fixtures, which enables landscape contractors and designers to achieve immediate efficiencies in terms of reduced electrical consumption and maintenance without complicated lighting system upgrades or adjustments.

Illumicare’s innovative new fully-stepped LED IC driver is a first for the landscape lighting industry. Our unique thermal control also ensures the lamp is safe to the touch and has a life expectancy of over 10 times that of most halogen equivalents.

When you combine the IC driver and the unique heat sink, this lamp is capable of operating at temperatures well below the heat specifications of most leading LED chips, even when sealed inside weatherproof fixtures.

T5 Wedge 2700K CIE Color Specification:
- Chromaticity coordinates: x=0.4694 y=0.4190 / u=0.2649 v=0.5319
- Correlated color temperature: Tc = 2635K
- Dominant Wavelength: λd = 583.8nm, Purity: 66.7%
- Peak Wavelength: λp = 611.0nm, Semibreadth: Δλp = 126.6nm
- Red Ratio: R=27.2%
- Color Rendering Index: Ra=82.1
- R1 = 79 R2 = 89 R3 = 98 R4 = 80 R5 = 79 R6 = 86 R7 = 84 R8 = 61
- R9 = 13 R10 = 75 R11 = 78 R12 = 71 R13 = 81 R14 = 99 R15 = 73
- Luminous Flux: 237.7 lm
- Light Efficiency: 92.43 lm/W

• Solid aluminum heat sink – to dissipate heat from the LED chips, for use in enclosed fixtures.
• Omnidirectional light – True 360° light output, for use in path/area fixtures
• Up to 35,000hr lamp life (IES LM-80 lumen maintenance test)
• 2700K color temperature perfectly matched to our MR16 LED lamp

Illumicare offers a 4-year warranty on all miniature lamps.
### Performance Data

<table>
<thead>
<tr>
<th>Input Voltage</th>
<th>Output Power</th>
<th>Operating Temperature</th>
<th>Operating Environment</th>
<th>L70</th>
</tr>
</thead>
<tbody>
<tr>
<td>9 - 15V AC/DC</td>
<td>1.6 - 3W</td>
<td>35 - 40°C (95 - 104°F)</td>
<td>-20 to 40°C (-4 - 95°F)</td>
<td>35,000 Hours</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Base, Luminous Flux, Color Temperature (CCT), Illumination, CRI</th>
</tr>
</thead>
<tbody>
<tr>
<td>G5.3, G4, SCB, T5, S8</td>
</tr>
</tbody>
</table>

### LED G4 BIPIN 2700K

- Q10, Q15 & Q20 Replacement
- 2700K
- 190 Lumens
- 1.8 Watts
- 19mm x 31.5mm

SCB 2700K CIE Color Specification:

- Chromaticity coordinates: x=0.4626 y=0.4153 / u=0.2621 v=0.5296
- Dominant Wavelength: λd = 583.7nm, Purity: 63.5%
- Peak Wavelength: λp = 607.5nm, Semibreadth: Δλp = 129.8nm
- Red Ratio: R=26.7%
- Color Rendering Index: Ra=82.5
- R1 = 80 R2 =89 R3 =97 R4 =80 R5 =80 R6 =86 R7 =85 R8 =62
- R9 =15 R10 =75 R11 =78 R12 =72 R13 =82 R14 =98 R15 =74
- Luminous Flux: 260.9 lm
- Light Efficiency: 86.94 lm/W

### G4 BIPIN 2700K CIE Color Specification:

- Chromaticity coordinates: x=0.4632 y=0.4147 / u=0.2628 v=0.5294
- Dominant Wavelength: λd = 583.9nm, Purity: 63.5%
- Peak Wavelength: λp = 610.3nm, Semibreadth: Δλp = 128.8nm
- Red Ratio: R=26.8%
- Color Rendering Index: Ra=82.5
- R1 = 80 R2 =89 R3 =97 R4 =80 R5 =80 R6 =86 R7 =85 R8 =62
- R9 =15 R10 =75 R11 =78 R12 =72 R13 =82 R14 =98 R15 =74
- Luminous Flux: 197.3 lm
- Light Efficiency: 96.6 lm/W

### Typical Applications

- Landscape Lighting
- Architectural Lighting
- General Interior Lighting
- Commercial Applications

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Over Current Protection  
Reversed Polarity Protection  
Full Solid State Components
Omnidirectional Miniature LED Lamp Specifications 2700K

LED S8 Wedge 2700K
3155 & 3156 Replacement
2700K
260 Lumens
3 Watts
24mm x 58.1mm

G5.3 BiPin 2700K CIE Color Specification:
> Chromaticity coordinates: x=0.4549 y=0.4085 / u=0.2602 v=0.5258
> Correlated color temperature: Tc = 2754K
> Dominant Wavelength: λd = 584.0nm, Purity: 59.2%
> Peak Wavelength: λp = 612.6nm, Semibreadth: Δλp = 130.3nm
> Red Ratio: R=26.4%
> Color Rendering Index: Ra=82.8
> R1 = 81 R2 =90 R3 =97 R4 =81 R5 =80 R6 =87 R7 =85 R8 =63
> R9 =17 R10 =76 R 11 =79 R12 =73 R13 =82 R14 =98 R15 =75
> Luminous Flux: 232.7 lm
> Light Efficiency: 91.89 lm/W

S8 WEDGE 2700K CIE Color Specification:
> Chromaticity coordinates: x=0.4545 y=0.4098 / u=0.2594 v=0.5263
> Correlated color temperature: Tc = 2771K
> Dominant Wavelength: λd = 583.8nm, Purity: 59.4%
> Peak Wavelength: λp = 612.6nm, Semibreadth: Δλp = 131.3nm
> Red Ratio: R=26.2%
> Color Rendering Index: Ra=82.6
> R1 = 81 R2 =89 R3 =96 R4 =81 R5 =80 R6 =86 R7 =85 R8 =63
> R9 =16 R10 =75 R 11 =79 R12 =72 R13 =82 R14 =98 R15 =75
> Luminous Flux: 274.1 lm
> Light Efficiency: 94.50 lm/W

LED G5.3 BiPin 2700K
Q20 & Q35 Replacement
2700K
230 Lumens
2.5 Watts
24mm x 40.5mm

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Unidirectional Miniature LED Lamp Specifications 2700K

**LED G4 BP SIDE 2700K**

Q10, Q15 & Q20 Replacement  
2700K  
115 Lumens  
2.0 Watts  
24mm x 31.5mm

**G4 Bipin REAR 2700K CIE Color Specification:**

> Chromaticity coordinates: x=0.4718 y=0.4213 / u=0.2654 v=0.5332  
> Correlated color temperature: Tc = 2621K  
> Dominant Wavelength: λd = 583.9nm, Purity: 65.7%  
> Peak Wavelength: λp = 611.0nm, Semibreadth: Δλp = 126.8nm  
> Red Ratio: R=27.1% G=73.5% B=02.2%  
> Color Rendering Index: Ra=81.9  
> R1 = 79 R2 =89 R3 =98 R4 =79 R5 =79 R6 =86 R7 =84 R8 =60  
> R9 =13 R10 =75 R 11 =77 R12 =71 R13 =81 R14 =99 R15 =73  
> Luminous Flux: 114.5 lm  
> Light Efficiency: 69.27 lm/W

**LED G4 BP SIDE 2700K CIE Color Specification:**

> Chromaticity coordinates: x=0.4678 y=0.4174 / u=0.2646 v=0.5311  
> Correlated color temperature: Tc = 2644K  
> Dominant Wavelength: λd = 583.9nm, Purity: 65.7%  
> Peak Wavelength: λp = 611.0nm, Semibreadth: Δλp = 126.8nm  
> Red Ratio: R=27.1% G=73.5% B=02.2%  
> Color Rendering Index: Ra=81.9  
> R1 = 79 R2 =89 R3 =98 R4 =79 R5 =79 R6 =86 R7 =84 R8 =60  
> R9 =13 R10 =75 R 11 =77 R12 =71 R13 =81 R14 =99 R15 =73  
> Luminous Flux: 114.5 lm  
> Light Efficiency: 69.27 lm/W

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