

# Rotatable Base LED G4 Lamp Specifications

Illumicare's innovative new design offers the only wafer-style lamp that can be adjusted to accommodate any socket orientation. Our unique thermal control also ensures the LED BP SIDE lamp is safe to the touch and has a life expectancy of over 10 times that of most halogen equivalents.

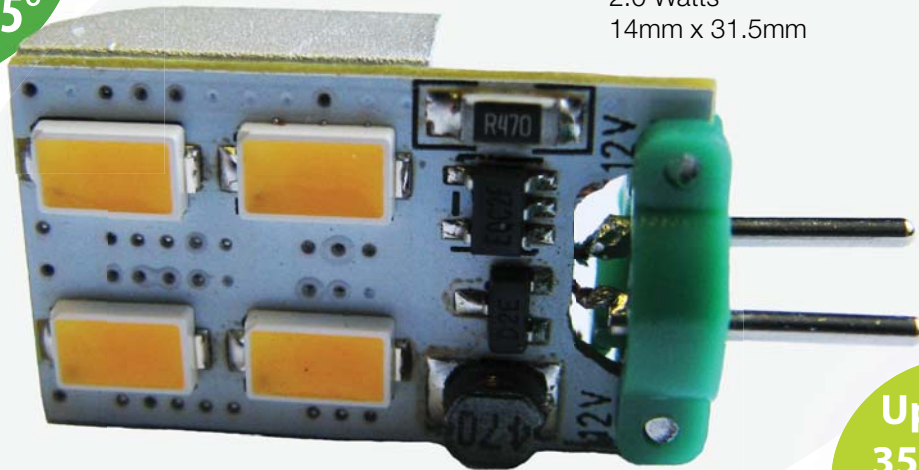
Designed with Samsung LED chips, Illumicare Group Limited's G4 bipin LED lamps fit into hundreds of existing outdoor niche, specialty and deck lighting fixtures, which enables landscape lighting designers and installers to achieve immediate efficiencies in terms of reduced electrical consumption and maintenance without complicated lighting system upgrades or adjustments.

The LED BP SIDE lamp replaces a typical halogen Q10, Q15 or Q20 bulb, operates below 40°C (104°F), and produces between 120 and 125 lumens in a 2700 Kelvin (incandescent equivalent) and 3000 Kelvin (halogen equivalent) color temperature.

**Pin Base  
Rotates  
Up to 45°**

## LED BP SIDE

Q10, Q15 & Q20 Replacement  
2700K & 3000K  
125 Lumens  
2.0 Watts  
14mm x 31.5mm



**Up to  
35,000  
Hours**

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

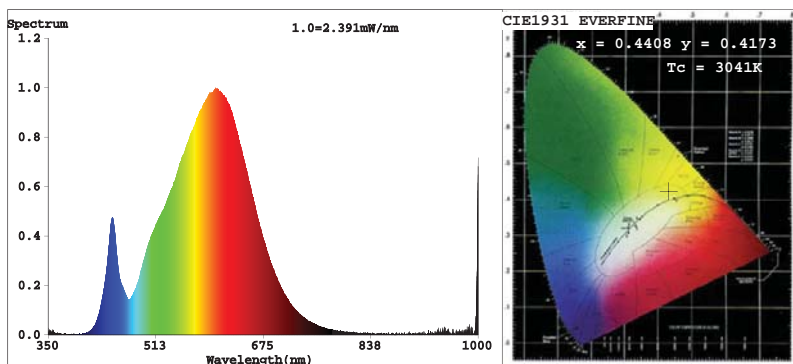
- Solid aluminum heat sink – to dissipate the heat from the LED chips, allowing for longer lamp life, and for use in enclosed fixtures.
- Rotatable socket pins for directional light positioning
- Up to 35,000hr lamp life (IES LM-80 lumen maintenance test)
- Very high efficiency 72+ lumens per watt
- 2700K (Very Warm White) 3000K (Warm White)
- Typical 85 CRI for true color representation
- 9-15V AC/DC operation

*Not for use with electronic low-voltage transformers.  
This product may cause interference with other devices.  
If interference occurs, change the location of the products involved.*

- Over Current Protection
- Reversed Polarity Protection
- Full Solid State Components

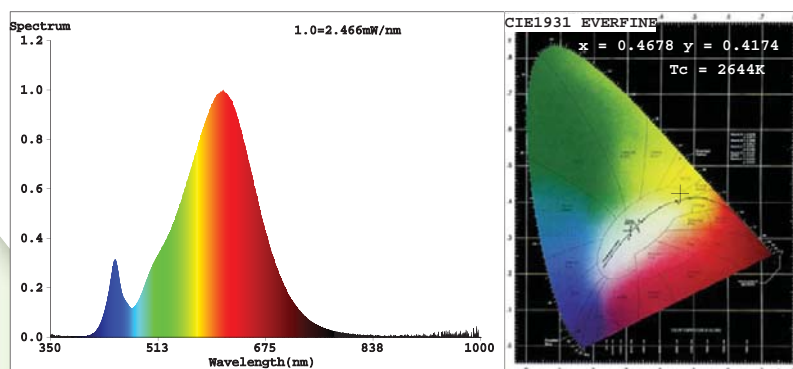
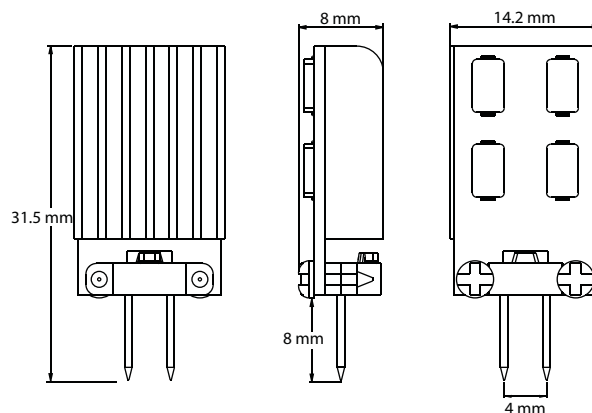
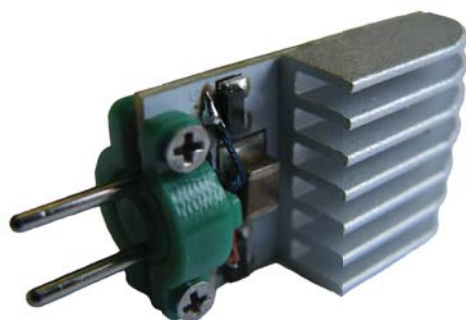
## Performance Data

Input Voltage	Output Power	Operating Temperature	Operating Environment	L70
9 - 15V AC/DC	2W	35 - 40°C (95 - 104°F)	-20 to 40°C (-4 - 95°F)	35,000 Hours
Base	Luminous Flux	Color Temperature (CCT)	Illumination	CRI
G4 - Q10, Q15, Q20	115 - 125lm	2700K (Incandescent) 3000K (Halogen)	Unidirectional	80 - 85%



### G4 Bipin SIDE 3000K CIE Color Specification:

- > Chromaticity coordinates:  $x=0.4408$   $y=0.4173$  /  $u=0.2474$   $v=0.5270$
- > Correlated color temperature:  $T_c = 3041K$
- > Dominant Wavelength:  $\lambda_d = 581.0nm$ , Purity: 57.60%
- > Peak Wavelength:  $\lambda_p = 602.9nm$ , Semibreadth:  $\Delta\lambda_p = 141.5nm$
- > Colorimetric:  $R=23.9\%$   $G=73.7\%$   $B=02.2\%$
- > Color Rendering Index:  $R_a=85.0$
- >  $R_1 = 79$   $R_2 = 87$   $R_3 = 96$   $R_4 = 81$   $R_5 = 79$   $R_6 = 84$   $R_7 = 87$   $R_8 = 64$
- >  $R_9 = 13$   $R_{10} = 71$   $R_{11} = 79$   $R_{12} = 66$   $R_{13} = 81$   $R_{14} = 97$   $R_{15} = 73$
- > Luminous Flux: 124.1 lm
- > Light Efficiency: 72.29 lm/W



### G4 Bipin SIDE 2700K CIE Color Specification:

- > Chromaticity coordinates:  $x=0.4678$   $y=0.4174$  /  $u=0.2646$   $v=0.5311$
- > Correlated color temperature:  $T_c = 2644K$
- > Dominant Wavelength:  $\lambda_d = 583.9nm$ , Purity: 65.7%
- > Peak Wavelength:  $\lambda_p = 611.0nm$ , Semibreadth:  $\Delta\lambda_p = 126.8nm$
- > Red Ratio:  $R=27.1\%$   $G=73.5\%$   $B=02.2\%$
- > Color Rendering Index:  $R_a=81.9$
- >  $R_1 = 79$   $R_2 = 89$   $R_3 = 98$   $R_4 = 79$   $R_5 = 79$   $R_6 = 86$   $R_7 = 84$   $R_8 = 60$
- >  $R_9 = 13$   $R_{10} = 75$   $R_{11} = 77$   $R_{12} = 71$   $R_{13} = 81$   $R_{14} = 99$   $R_{15} = 73$
- > Luminous Flux: 114.5 lm
- > Light Efficiency: 69.27 lm/W

### Why Illumicare?

Illumicare Group Limited is a privately held LED research and development firm. For over 15 years, Illumicare's lighting professionals have specialized in developing and supplying high-efficiency lighting for commercial and outdoor use.

As a manufacturer of innovative LED products, our focus is eliminating the barriers involved in engineering superior LED lighting technologies and adapting to environmental demands to produce an innovative, energy-efficient lamp for both new and retrofit lighting installations.

### Typical Applications

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