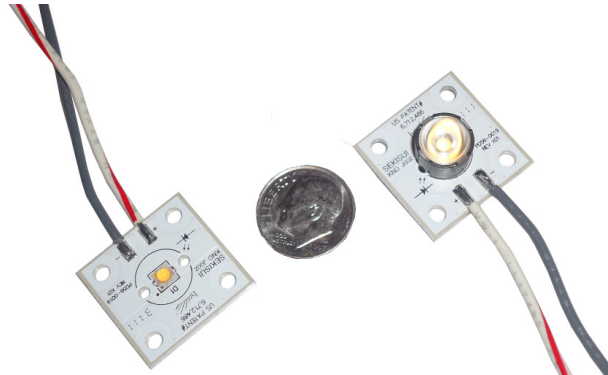


## Features & Benefits

- Intense and powerful point source for critical applications
- Less than 1 square inch for small luminaires such as landscape, pathway, steplight, pendants, or chandeliers
- Constant chromaticity across beam angles
- Includes option for standard lenses from Fraen® or Ledil®
- Protective transparent coating
- Patented intelligent thermal design uses metal core board (MCPCB)
- Includes mounting holes for mechanical attachment and pre-wired leads
- Easily configured into existing and new luminaires
- Available in a variety of color temperatures
- Can be used to meet the requirements of CA Title 24, ENERGY STAR® and other green initiatives

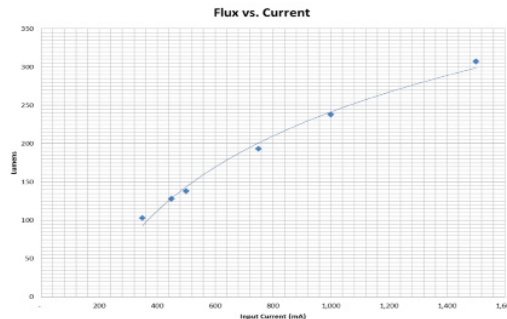
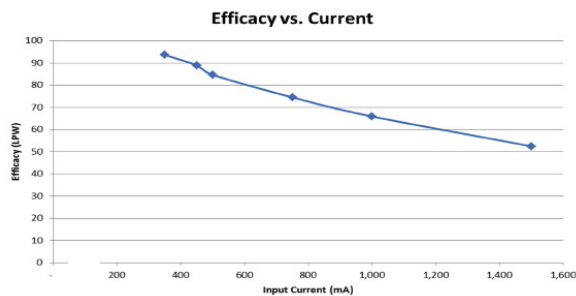


## Required Brilliant LED Drivers

Consult Permlight to match Driver with installation configuration ..... PS10-350C-824 or PS10-450C-824

## Ratings and Performance Specifications

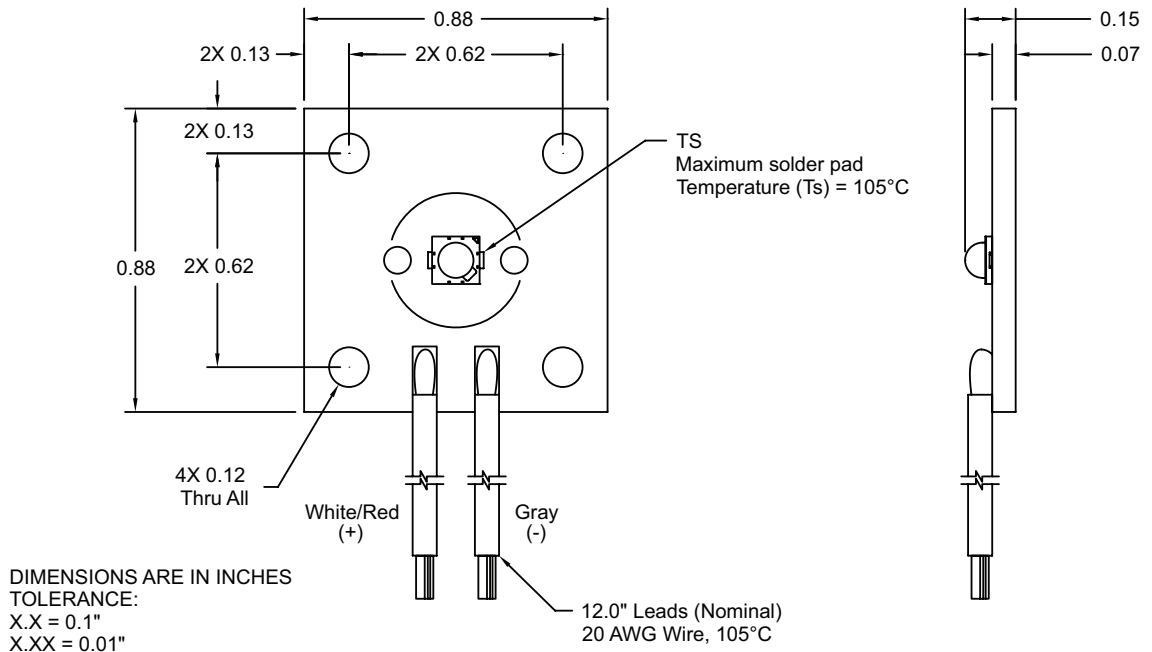
Nominal DC Power Consumption .....	1 to 5 W
Maximum Input Current Recommendation .....	1,000 mA
Maximum Solder Pad Temperature (Ts) .....	+105 °C
Maximum Screw Installation Torque.....	50 inch-ounces
Estimated Lumen Depreciation (LM80 standard) .....	70% of initial lumens (L <sub>70</sub> ) at 40,000 hours
Maximum Weight .....	25 grams
Safety/Compliance	
ETL Approved.....	Control Number 4003001
Conforms to UL Standard 8750	
Certified to CAN/CSA Standard C22.2 No. 223-M91	



## Application Notes

1. The proper LED Solder Pad Temperature (Ts) is critical to ensure long life. Careful design consideration required for factors such as ambient conditions (for example weather and surrounding atmosphere inside exterior luminaires) and proximity to other heat sources such as other LED modules and heat generating LED drivers.
2. Abnormal operating conditions such elevated operating temperatures can be expected to negatively impact lumen output, product lifetime, or product performance.
3. The use of any washer (Lock, Flat, etc) shall void the warranty due to possible damage and/or shorting the circuit board.

## Physical Dimensions



Part Number	Correlated Color Temp. <sup>[1]</sup> (Kelvin)	Light Output <sup>[1]</sup> (Lumens)	Efficacy <sup>[1]</sup> (Lumens per Watt)	CRI <sup>[1]</sup>
BB01CK-2700	2700	see graph	see graph	80
BB01CK-4000	4000	see graph	see graph	80

<sup>1</sup>Nominal value when used with compatible Brillia LED driver and proper heatsink

### Options: [sales@permlight.com](mailto:sales@permlight.com)

Other LED color temperatures ..... please email [sales@permlight.com](mailto:sales@permlight.com)

### Packaging

Modules are marked with abbreviated SKU and lot traceability information on non-LED side of module. Modules are sold 130 per carton and packaged in ESD bags with SKU and lot traceability information.

### Warranty

3-Year limited warranty in accordance with Brillia published warranty. Product must be used with compatible Brillia components (modules, drivers, engines and/or accessories) and no maximum ratings (such as Ts) shall be exceeded during any expected operating conditions of the system.

Permlight Products Inc. holds the following United States patents of which one or more may be applicable to the design and/or manufacture of this product. Additional granted patents, patents pending and other intellectual property protection rights may apply to this product.

United States Patents: 6712486, 6578986, 6846093, 7114831, 7306353, 7102172, 7108396, 7329024, 7387406, 7582911, 7582911, 7649327

[www.brillialed.com](http://www.brillialed.com)

©2011 Permlight Products Inc. All rights reserved. Permlight, Brillia, Enbryten and Thermadjust are trademarks of Permlight Products, Inc. All others are trademarks of their respective companies or organizations. The information provided were obtained using data from laboratory results and may be subject to change. Permlight reserves the right to change any information without notice.