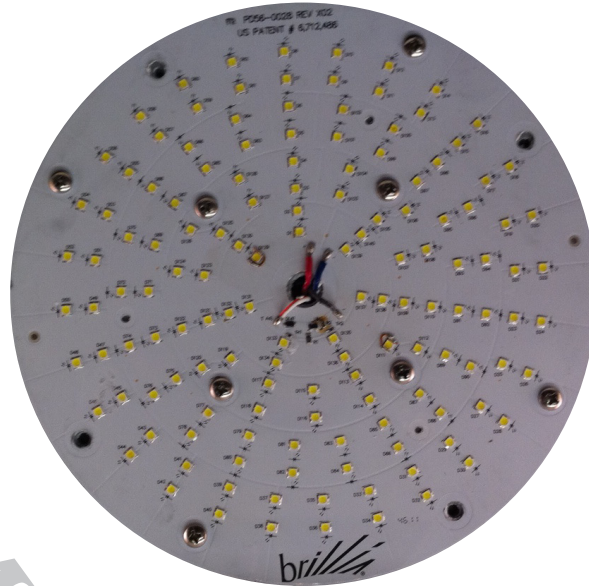


NEW

High Bay Light Engine (Module and Driver)

Features & Benefits

- High Brightness replaces up to 250W metal halide
- 8" diameter module is ideal size for traditional HID luminaires
- Constant current design produces 96 LPW system efficacy
- Dimmable with 0-10 VDC
- Integral Thermadjust® technology for extreme environments
- Integral aluminum heat sink. Patented intelligent thermal design uses metal core board (MCPCB)
- Easily configured into existing and new luminaires
- Available in a variety of color temperatures



Ratings and Performance Specifications

Nominal AC Power Consumption @ 120VAC	160W, 133W, 100W
Input Voltage	120 to 277VAC
Maximum Operating Range Ambient Temperature (Ta)	-40 to +50°C
Maximum Solder Pad Temperature (Ts)	+85°C
Maximum Driver Case Temperature (@ designated temperature measurement point, TMP).....	+75°C
Estimated Lumen Depreciation (LM80 standard)	70% of initial lumens (L ₇₀) at 40,000 hours
Maximum Weight	TBD grams

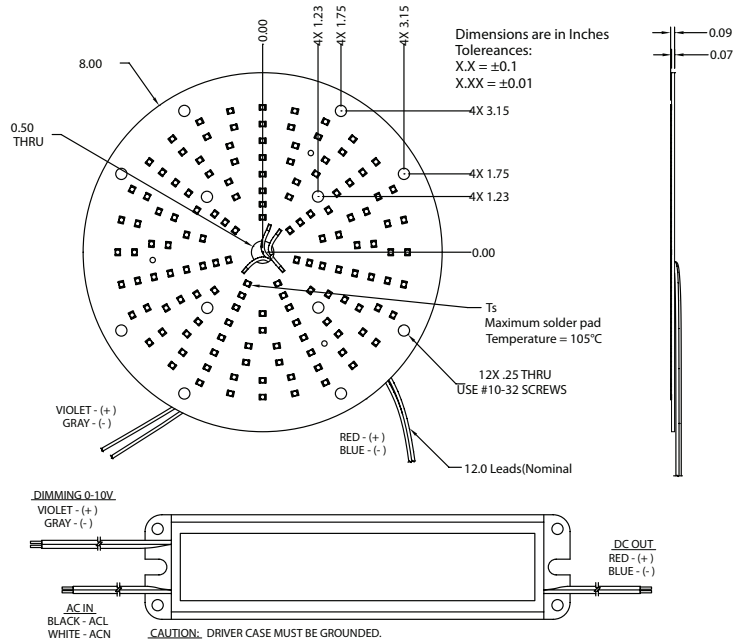
Application Notes

1. The proper LED Solder Pad Temperature (Ts) and Driver Case Temperature are 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. For more information see: http://brillialed.com/thermal_management_guide.php
2. The use of any washer (lock, flat, etc) may cause damage to and shorting of the circuit traces on the board. Consequently, washer use will void the warranty.

HB Series
(BEP 136 HB, BEP 112 HB and BEP 84 HB)

HB SERIES

Physical Dimensions



Part Number	Correlated Color Temperature (Kelvin)	Light Output (Lumens) ⁽¹⁾	Power Consumption (Watts)	System Efficacy (LPW) CRI ⁽¹⁾	Beam Angle ⁽¹⁾ (Degrees)	0-10 VDC Dimmable
BEP 136 HB - 35	3500	12,500	160	78 85	120	Yes
BEP 136 HB - 51	5100	15,000	160	94 70	120	Yes
BEP 112 HB - 35	3500	9,900	133	75 85	120	Yes
BEP 112 HB - 51	5100	12,200	133	92 70	120	Yes
BEP 84 HB - 35	3500	7,475	100	75 85	120	Yes
BEP 84 HB - 51	5100	9,200	100	92 70	120	Yes

¹Nominal Values

Options

Other LED colors availableplease email sales@brillialed.com

Packaging

Brillia LED Light Engines are packed in individual containers with ESD bags as applicable and are marked with relevant SKU information and lot traceability.

Warranty

3-Year limited warranty in accordance with Brillia published warranty at www.brilliaLED.com. No maximum ratings (such as Ts) shall be exceeded during any expected operating conditions of the system.

CAUTION: LEDs generate intense optical radiation which may cause discomfort.

Patents

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

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LED Light Engine