

High Output Compact Module For Wall Pack or Similar Exterior Applications

Features & Benefits

- Specifically designed for compact wall pack luminaire housings
- Lowest cost achieved with high power LEDs and smallest PCB
- Replaces up to 150W metal halide and HPS delivering similar foot candles and appearance with superior CRI
- Modules are scalable by reducing LED count for “tuning” to meet specific project or application requirements
- Peel and stick 3M 468 adhesive tape provided to reduce labor and hardware while providing adequate thermal transfer
- Mounting holes provided for additional mechanical securing
- Conformal coated with Humiseal for moisture protection
- 2000K version replaces HPS with same CCT but CRI of 83 vs. 22
- Compatible with Permlight PS50 Series driver and off-the-shelf 1050mA LED drivers



Compatible LED Drivers

Maximum DC Input Current to Module	1050mA
Typical DC input Voltage to Module	43.6V

Ratings and Performance Specifications

Nominal DC Power Consumption	46W
Recommended Screw Installation Torque	75 inch ounces
Maximum Operating Range Ambient Temperature (Ta)	-40 to +50°C
Maximum Solder Pad Temperature (Ts)	+105°C
Estimated Lumen Depreciation (TM-21)	70% initial lumens (L70) @ 100,000 hours
Nominal Weight	18 grams
Safety/Compliance UL Class 2 Recognized Component.....	E321468

Application Notes

1. The use of any washer (lock, flat, etc.) will void the warranty due to possible damage and/or sorting to the circuit board. Nylon washers are acceptable for use with pan head mounting screws.
2. This module requires a heat sink at full power for maximum performance. Care should be taken in the luminaire designs to allow heat to escape the system. Contact factory for thermal guidelines.
3. Abnormal operating conditions such as elevated ambient temperatures can be expected to negatively impact lumen output, product lifetime and/or performance.

BB42WC Series

Physical Dimensions

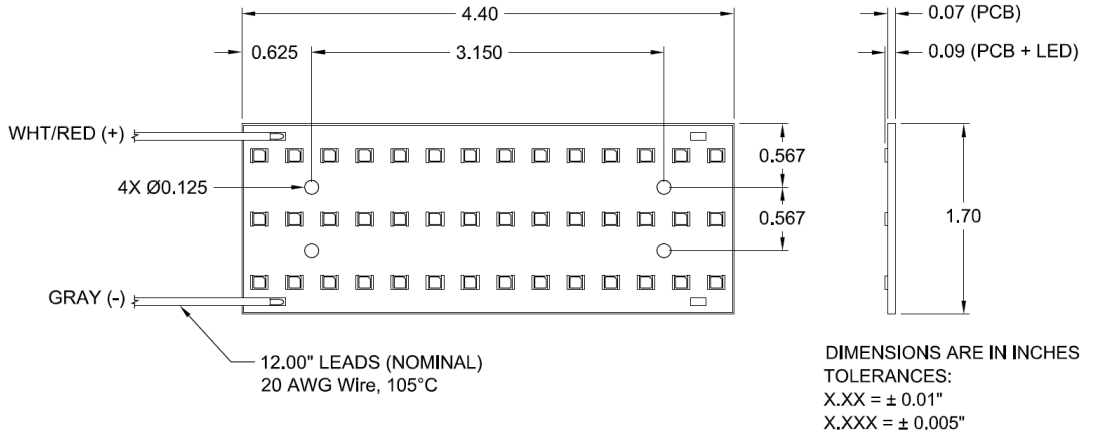


Table 1, Performance Characteristics at 25C

Data from laboratory test measurements, actual results may vary.

Part Number*	Designed to Replace	Nominal CCT (Kelvin)	Nominal Minimum CRI	Nominal Light Output @ 1050mA (Lumens)	Nominal Power Consumption (WDC)	Nominal Module Efficacy (DC LPW)
BB42WC-20-80-01	150W HPS	2000	80	3,606	46	78
BB42WC-30-80-01	n/a	3000	80	5,590	46	122
BB42WC-35-80-01	n/a	3500	80	5,725	46	124
BB42WC-40-80-01	n/a	4000	80	5,905	46	128
BB42WC-50-80-01	150W MH	5000	80	6,141	46	133

Options available

-O2 version supplied with no tape on back for fastening directly to heatsink with screws.
Other power ratings, number of LED, CCT and CRI available on special order
90 CRI minimum available on special order 2700K - 4000K only, subtract 25% lumens

Packaging

Product is marked with SKU and lot information on non-LED side of module.
Sold in groups of (14) units, and packaged in ESD bags with SKU and lot information.

Warranty

5-Year limited warranty in accordance with published warranty conditions. Product must be used with compatible 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. If product is used with other manufacturer's product, compatibility must be recognized in writing by Permlight Technologies.

Permlight Technologies owns the following United States patents of which one or more may be applicable to the design and/or manufacture of this product: 6712486, 6578986, 6846093, 7114831, 7306353, 7102172, 7108396, 7329024, 7387406, 7582911, 7649327, 8926145, 8729810. Additional granted patents, patents pending and other IP protection rights may apply.