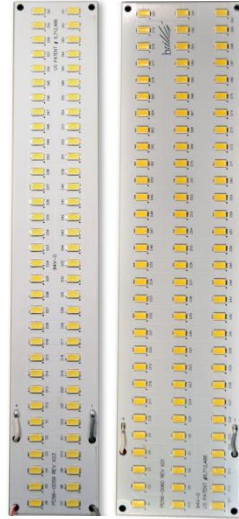


## High Output Modules for Wall Pack or Similar Exterior Applications

### Features & Benefits

- Specifically designed to retrofit legacy HID Wall Pack luminaire housings available on the market
- Replaces 150W metal halide and HPS delivering similar foot candles and appearance with superior CRI
- Built-in dual circuit for emergency battery operation and/or two-step dimming with multiple drivers
- Compatible with off-the-shelf 1050mA LED drivers
- Modules are scalable LED count for “tuning” to meet specific project or application requirements
- Module valence holes hide wiring for “finished” appearance
- Mounting holes for thermal transfer and simple installation
- 2000K replaces HPS with same CCT but CRI of 83 vs. 22
- 80 CRI version meets DLC criteria for exterior luminaires
- Permlight PS50-1050C-DIM-UNV-TL compatible with all SKUs



### Compatible LED Drivers

Recommended Maximum DC Input Current to Module ..... 1050mA  
Typical DC input Voltage to Module ..... See Table 1

### Ratings and Performance Specifications

Nominal DC Power Consumption ..... See Table 1  
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 ..... 55 and 80 grams  
Safety/Compliance UL Class 2 Recognized Component..... E321468

### Application Notes

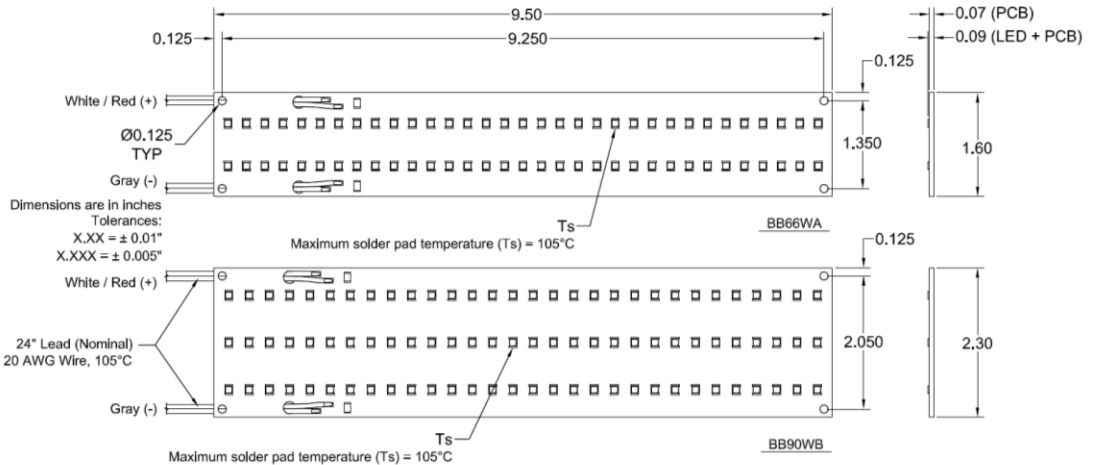
1. The use of any washer (lock, flat, etc.) will void the warranty due to possible damage and/or shorting to the circuit board.
2. This module requires a heat sink at full power for maximum performance. Care should be taken in the luminaire designs to allow heat to escape the system. Contact factory 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.

BB66WA and BB90WB Series

# BB66WA and BB90WB Series

## Physical Dimensions

Module has split circuits, center LEDs and LEDs at both ends of PCB, for full power use 1050mA driver. For split circuit or BBU emergency circuit use 700mA driver for center section, 350mA driver for end circuits.



**Table 1, Performance Characteristics at 25C**

Data from laboratory test measurements, actual results may vary.

Part Number	Application Recommendations										
	Designed to Replace	Legacy Wallpack Luminaire		Aluminum Heatsink		Nominal CCT (Kelvin)	Nominal CRI	Nominal Light Output @ 1050mA (Lumens)	Nominal Voltage @ 1050mA (VDC)	Nominal Power Consumption (WDC)	Nominal Module Efficacy (DC LPW)
		Width (in)	Area (in <sup>2</sup> )	Area (in <sup>2</sup> )	Area (in <sup>2</sup> )						
BB66WA-20-80-01	100W HPS	12-14	450	2000	80	3,345	34	36	93		
BB66WA-30-80-01	n/a	12-14	450	3000	80	4,608	34	36	129		
BB66WA-35-80-01	n/a	12-14	450	3500	80	4,744	34	36	133		
BB66WA-40-80-01	F54T5HO/841	12-14	450	4000	80	4,820	34	36	135		
BB66WA-50-80-01	100W MH	12-14	450	5000	80	5,261	34	36	147		
BB90WB-20-80-01	150W HPS	15-19	750	2000	80	4,562	47	49	93		
BB90WB-30-80-01	n/a	15-19	750	3000	80	6,283	47	49	129		
BB90WB-35-80-01	n/a	15-19	750	3500	80	6,470	47	49	133		
BB90WB-40-80-01	n/a	15-19	750	4000	80	6,573	47	49	135		
BB90WB-50-80-01	150W MH	15-19	750	5000	80	7,175	47	49	147		

## Options available

BB54WA (82% watts and lumens), BB42WA (64%) and BB72WB (80%), BB54WB (60%)

## Packaging

Product is marked with SKU and lot information on non-LED side of module.

Sold in groups of (7) BB66WA, (5) BB90WB, packaged in ESD bags with 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.