

## Small Rectangle Format High Output Module For a Variety of Applications

### Features and Benefits

- 1.74" x 0.71" format for small fixtures such as commercial or decorative wall pack, bollard, step and high-end architectural luminaires
- **TFA (Turtle Friendly Amber)** version is AlInGaP LED with narrow wavelength, Florida Wildlife Commission (FWC) compliant
- Pre-wired 12" pigtails are mechanically robust and reduce labor
- Protective conformal (transparent) coating for exterior applications
- Compatible with Forzlux drivers:
  - PS11 Series low voltage 12VAC landscape
  - PS3-350C Series 120VAC ELV/triac dimmable
  - PS6-350C Series 120-277VAC, ELV/triac, 0-10V dimmable



BB09BU SERIES

### Compatible LED Drivers

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

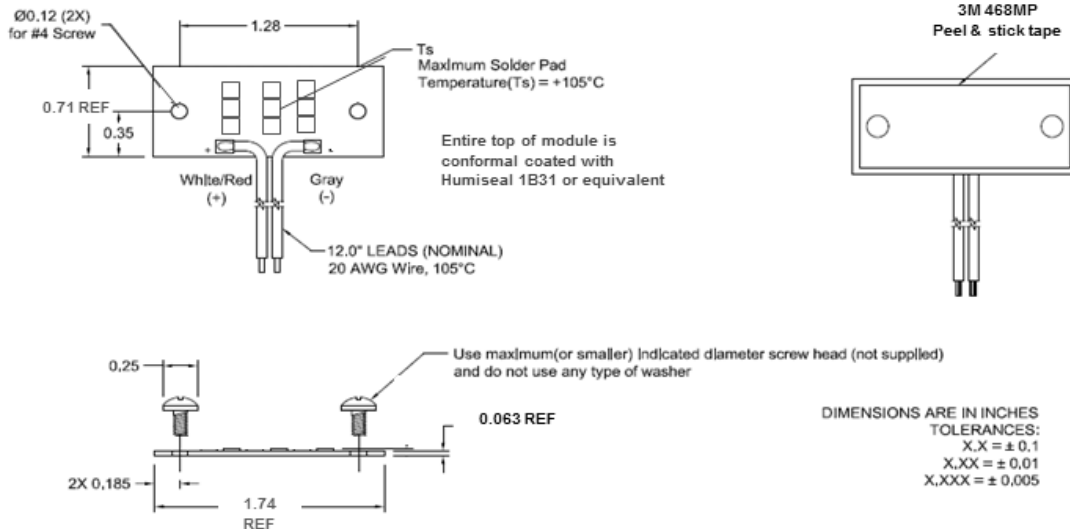
### Ratings and Performance Specifications

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 .....	9 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 of LED and/or circuit board.
2. This module requires heatsinking at full power. The luminaire design should allow heat to escape the system. Forzlux provides thermal testing of light engines in the luminaire for OEM customers to ensure long life and compliance with warranty.
3. Abnormal operating conditions such as elevated ambient temperatures can negatively impact lumen output, product lifetime and/or performance.

## Physical Dimensions



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

Data from laboratory test measurements, actual results may vary.

Part Number	Typical CCT/DWL (Kelvin/nm)	Min CRI	Max Current (ADC)	Typical VF (VDC)	Typical Power (WDC)	Typical Lumens	Typical Efficacy (DC LPW)
BB09BU-20-80-01	2000	80	0.35	9.0	3.15	349	111
BB09BU-25-80-00	2500	80	0.35	9.0	3.15	420	133
BB09BU-27-80-01	2700	80	0.35	9.0	3.15	498	158
BB09BU-30-80-01	3000	80	0.35	9.0	3.15	515	164
BB09BU-35-80-01	3500	80	0.35	9.0	3.15	528	168
BB09BU-40-80-01	4000	80	0.35	9.0	3.15	531	169
BB09BU-50-80-01	5000	80	0.35	9.0	3.15	555	176
BB09BU-65-80-01	6500	80	0.35	9.0	3.15	539	171
BB09BU-TFA-01	595	n/a	0.35	6.6	2.31	181	78
BB09BU-RED-01	622	n/a	0.35	6.6	2.31	160	69
BB09BU-GREEN-01	527	n/a	0.35	10.2	3.57	302	85
BB09BU-BLUE-01	470	n/a	0.35	9.0	3.15	86	27

## Options and Packaging

90CRI minimum versions on special order, subtract 15% lumens

Sold in groups of (80) unit(s) 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 operating conditions of the system. If product is used with other manufacturer's product, compatibility must be recognized in writing by Forlux.

Forlux owns the following United States patents of which may be applicable to the design 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.