

Narrow High Output Module For Linear Applications

Features and Benefits

- 11.75" long modules are scalable for legacy fluorescent applications to create a family of fixtures with different lengths
- Ideal for decorative linear luminaires: bath bars, recessed linear, cove and high end architectural
- Narrow 0.44" width, high efficacy linear family of modules replace T5HO and T8 linear fluorescent light sources with superior CRI
- LED spacing optimized to provide continuous illumination
- Lower cost FR4 PCB includes notches at ends and 3M 468MP peel & stick tape for mechanical attachment
- Latest generation LED for high efficacy and color consistency
- Pre-wired pigtails are mechanically robust and reduce labor



BB30DDQ SERIES

Compatible LED Drivers

Recommended Maximum DC Input Current to Module	350mA
Typical DC input Voltage to Module	30V

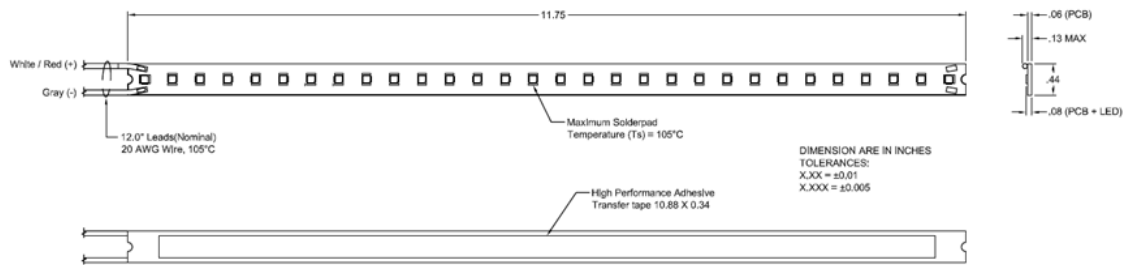
Ratings and Performance Specifications

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	30 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



12" nominal length leads, 20AWG, 105°C, strip ends 0.125"

Ts measurement point is cathode of center LED

3M 468MP peel & stick tape on back of module, clean heatsink surface with isopropyl alcohol

Table 1, Performance Characteristics at 25°C

Data from laboratory test measurements, actual results may vary.

Part Number	Nominal CCT (Kelvin)	Minimum CRI	Nominal Light Output @ 350mA (Lumens)	Maximum Input Current (mADC)	Nominal Power Consumption (WDC)	Nominal Module Efficacy (DC LPW)
BB30DQ-20-80-01	2000	80	1,252	350	10.5	119
BB30DQ-27-90-01	2700	90	1,380	350	10.5	131
BB30DQ-30-90-01	3000	90	1,406	350	10.5	134
BB30DQ-35-80-01	3500	80	1,678	350	10.5	160
BB30DQ-40-80-01	4000	80	1,678	350	10.5	160
BB30DQ-50-80-01	5000	80	1,780	350	10.5	170

Options available

Other CCT and CRI may be available on special order
90CRI minimum versions on special order, subtract 15% lumens

Packaging

Product is marked with SKU and lot information on non-LED side of module.
Sold in groups of (19) 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 Forzlux.

Forzlux 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.