



TM06BL05XX-0X1T

Constant Voltage Bendable Linear Modules

- High density, high brightness chip array for use in Commercial and Architectural applications
- Constant voltage for multiple array combinations
- Available in standard CCT's
- Class 2 Module
- Dimmable when used with a dimmable driver
- Suitable for DLC and Energy Star compliance luminaires
- LEDs equally spaced to allow uniform light distribution with multiple boards combined in a chain

General Ratings

Max Lumen Output @ Input Voltage	250 lumens @ 4000K / 80 CRI *
Input Voltage	24VDC
Nominal DC Power Consumption	2.5W
Beam Angle	120°
CRI	80, 90
Operating Ambient Temperature Range (Ta)	-35 to +40°C
Maximum Case Temperature (Tc)	90°C
Estimated Lumen Maintenance (L70)	50,000 hours at max Tc mod
Color Consistency	Binning per ANSI C78.377-2008; 7 SDCM
Overall Size	2.95 x 0.44"
Weight	Bendable aluminum 4g
Minimum Bend Radii	6"
Safety/Compliance	cURus (File # E351548: PTL130X22www**) Class 2 Lighting System RoHS Compliant
Warranty	5 years with suitable Fulham LED Drivers

* At Tc mod = 25°C
** www = PCB Rev #





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Part Numbering Matrix

TM 06 BL 05 27 - 00 1 T

Color Temperature

27 = 2700K
30* = 3000K
35 = 3500K
40* = 4000K
50 = 5000K

CRI

0* = Standard 80 CRI
1 = Optional 90 CRI

Module Options

C = Conformal Coating
T* = 3M Double-Sided Tape
B = Both Coating and Tape

* Indicates standard engine options. All others are built to order.

Electrical Specifications

LED Module Part Number	Number of LED	Length	Rated Power
TM06BL05xx-0x1T	6	3"	2.5W

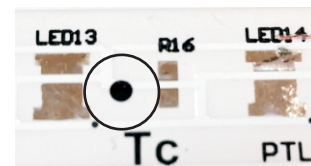
Optical Specifications

Color Temperature	LED Module Part Number	Nominal Luminous Flux @ 90 CRI	Nominal Luminous Flux @ 80 CRI	Efficacy @ 80 CRI
3000K	TM06BL0530-0x1T	175 lumens	230 lumens	90 lm/W
4000K	TM06BL0540-0x1T	215 lumens	250 lumens	100 lm/W

- 1) Electrical and optical specifications are based on Tc mod = 25°C.
- 2) Standard lumen output and efficacy is calculated for standard options. Reference CCT vs Lumen Output chart for lumen ratio calculation.
- 3) Specifications are subject to change without notice.

Thermal Specifications

	Module
Maximum Storage Temperature	-35 to 100°C
Maximum Operating Ambient Temperature	-35 to 40°C
Maximum Case Temperature (Tc)	90°C



Tc located on module

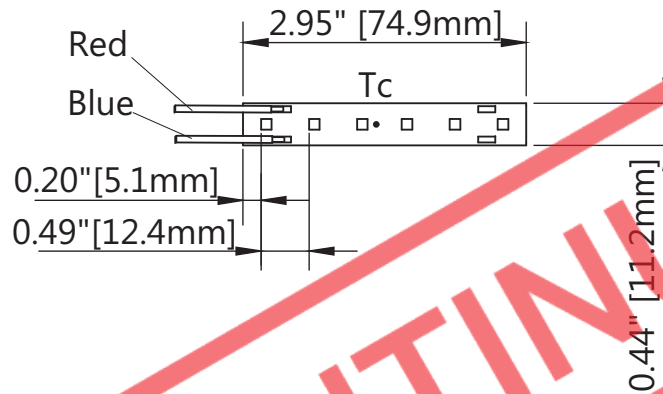


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Mechanical Drawings

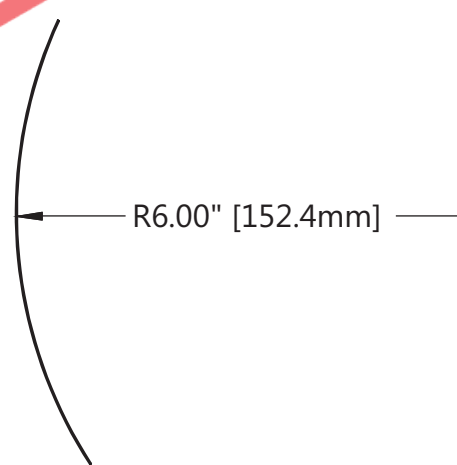
Wire Length - Inches

DC Input - Red (+) / Blue (-) 6.7



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DISCONTINUED



Min. Bend Radius



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Fastening Notes

- If fastening using double-sided tape, start with clean, dust-free surface. Peel backing and place LED module on mounting surface. Firmly press down on the module to ensure good adherence. Follow the double-side tape manufacturer's installation instructions.

Environmental Rating

- Modules are rated for dry locations, unless option for conformal coating is requested.
- Conformal coating is acrylic based and rated for Environment and Moisture Protection per IPC-CC-830.

Electrostatic Sensitive Product (ESD)

- Fulham LED products should be handled with proper measures to protect against any potential ESD damage.
- When servicing, personnel should be ground and direct contact with LED should be avoided.

Thermal Management

- Proper thermal management should be employed to ensure life and reliability of product.
- Use of thermal grease, paste, pad, or other material interface is highly recommended.

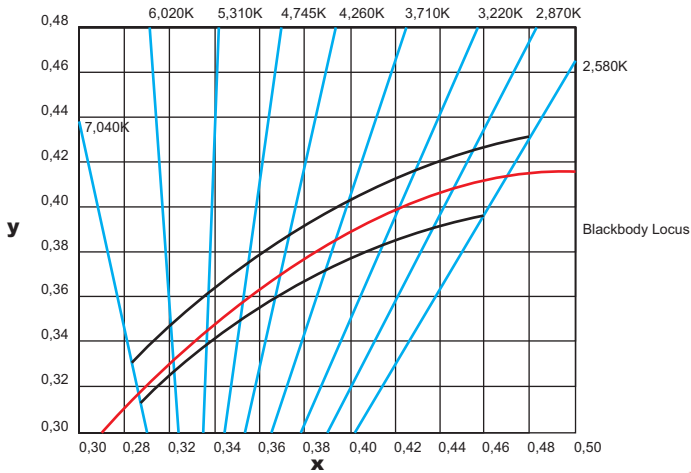
Polarity Notes

- Modules are polarity sensitive.
- Ensure that "positive" from LED Driver is connected to "positive" of LED modules and that "negative" from LED Driver is connected to "negative" of LED modules.
- Polarities of modules are marked with "+" for positive and "-" for negative.

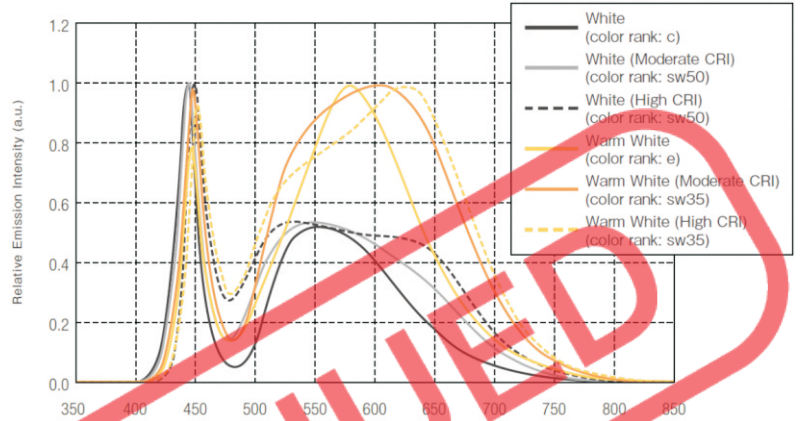


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Color and Binning



Optical Spectrum***



Ref. Nichia
Chromaticity Diagram for ANSI bins
For reference only. For more detailed info, contact factory.

*** Value varies depending on product type and color rank
Ref. Nichia
LED Catalogue 2013
For reference only. For more detailed info, contact factory.

Thermal De-Rating

Ambient Temperature (Ta)	Thermal De-rating Multiplier
25°C	1
30°C	0.991
35°C	0.989
40°C	0.980
45°C	0.975
50°C	0.970
55°C	0.960
60°C	0.950

CCT vs Luminous Flux

CCT	Luminous Flux Ratio
2700K	0.87
3000K	0.93
3500K	0.96
4000K	1.00
5000K	1.07

Ref. Nichia
LED757 Spec Sheet
For reference only. For more detailed info, contact factory.



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Compatible Fulham LED Drivers

Fulham Part Number	Driver Description	Wiring Diagram
T1(M1)UNV024V-20L	24V, 20W CV Driver, Universal Input (0-10V Dimmable)	A, C
T1(M1)UNV024V-60L	24V, 60W CV Driver, Universal Input (0-10V Dimmable)	A, C
T1(M1)UNV024V-75L	24V, 75W CV Driver, Universal Input (0-10V Dimmable)	A, C
T1UNV024V-100LE	24V, 100W CV Driver, Universal Input	A, C
T1UNV024V-100LS	24V, 100W CV Driver, Universal Input	A, C
T1(M1)UNV024V-150L	24V, 150W CV Driver, Universal Input (0-10V Dimmable)	A, C

* Total Load should not exceed maximum rated wattage of driver.

NOTE:

1. Subject to rated loading conditions.
2. Modules are polarity sensitive. Ensure that "positive" from LED Driver is connected to "positive" of LED modules and that "negative" from LED Driver is connected to "negative" of LED modules.
3. List is subject to change without notice.

Wiring Diagram

