

LBL-BI High CRI

Product Specification *Preliminary*

Approval Sheet

Product Specification

RoHS

Product	LED module
Model Name	LBI-2820 \ LBI-5620
Issue Date	2016/02/29

■ Feature

- ✓ Excellent design flexibility for linear form applications
- ✓ High efficacy, low power consumption
- ✓ Excellent uniformity of light
- ✓ Easy for installation
- ✓ UL listed PCB
- ✓ RoHS compliance

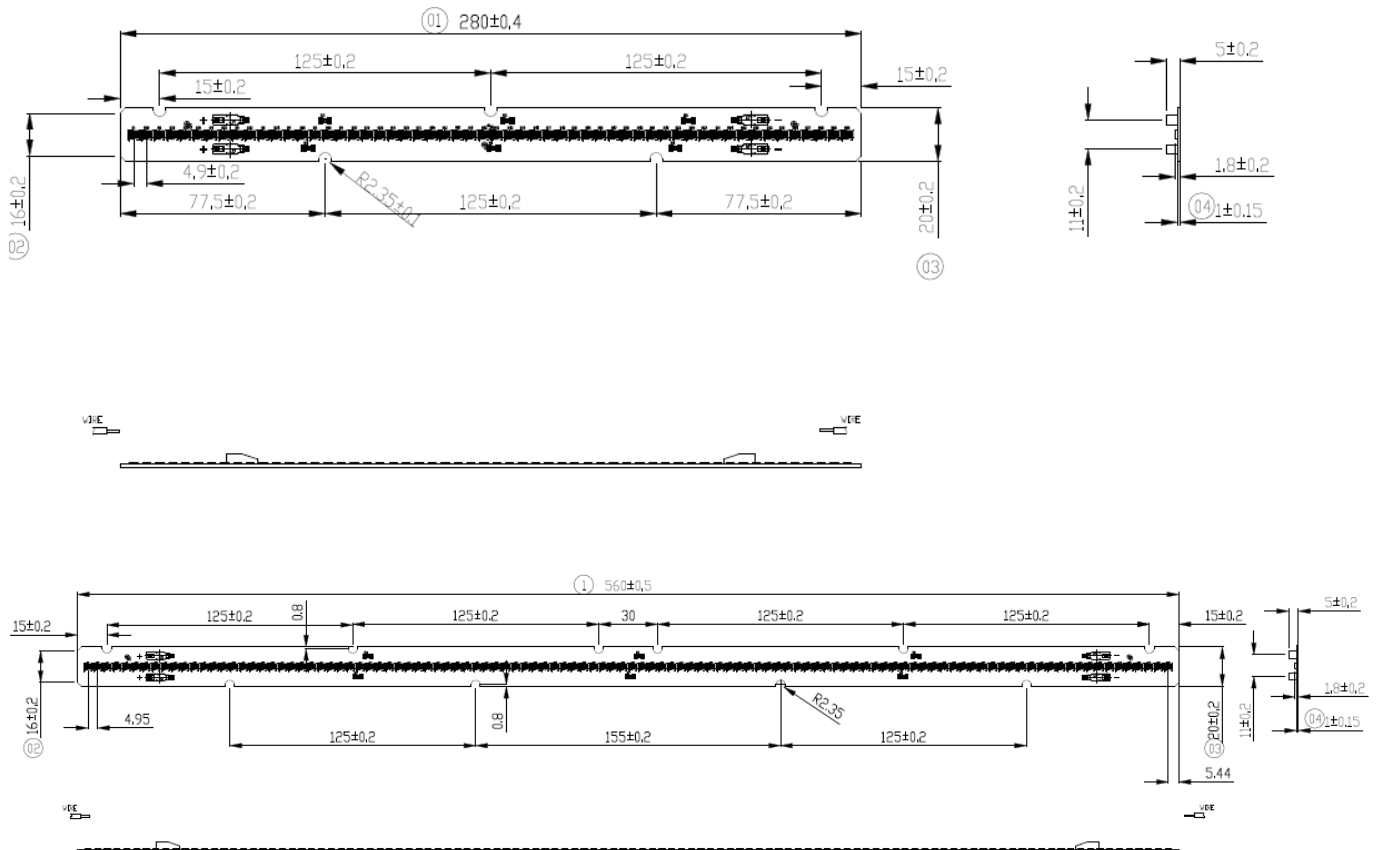
■ Applications

- ✓ Office lighting
- ✓ General lighting
- ✓ Indoor commercial lighting

Mechanical Drawing

Product Specification

Outline Dimension



Characteristics

Product Specification

Ordering Code:

LBI-2820	2700K/6500K	LBI-2820-82765
LBI-5620	2700K/6500K	LBI-5620-82765

Outline Dimension

Model	Parameter	Typical	Tolerance	Unit
LBI-2820	Length	560.0	±0.5	mm
	Width	20.0	±0.3	
	Height	5.2	±0.15	
	PCB thickness	1.2	±0.15	
LBI-5620	Length	280.0	±0.5	mm
	Width	20.0	±0.3	
	Height	5.2	±0.15	
	PCB thickness	1.2	±0.15	

Electrical Characteristics (Tc=55°C)

Model	Parameter	Symbol	Condition	Min.	Typical	Max.	Unit
LBI-2820	Forward Voltage(1)	VF	IF = 350 mA	18.6	20	21.4	V
LBI-5620				37.2	40	42.8	

(1) The Forward Voltage tolerance is ±3%.

■ **Optical Characteristics (Tc=55°C)**

Parameter	Symbol	Condition	Min.	Typical	Max.	Unit
Color Temperature ⁽¹⁾	CCT	IF = 350 mA	-	3000	-	K
				4000		
				6500		
Color Rendering Index ⁽²⁾	Ra	IF = 350 mA	90	-	-	-
View Angle	θ	IF =350 mA	-	120	-	deg

(1) Correlated Color Temperature is derived from the CIE 1931 Chromaticity diagram.

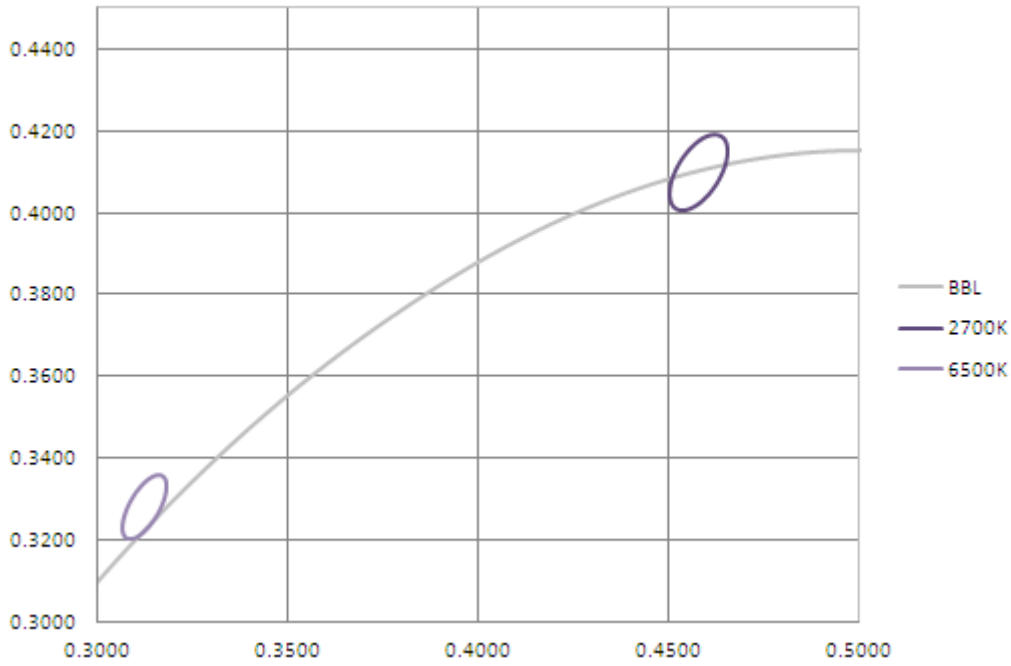
(2) The CRI tolerance is ±3.

■ **Luminous Flux⁽¹⁾ (Tc=55°C)**

Model	CCT	Condition	Lumen			Unit
			Min.	Typical	Max.	
LBI-2820	2700K	I _F = 350 mA	770	850	930	Lm
	6500K		870	960	1050	
LBI-5620	2700K		1530	1700	1870	
	6500K		1740	1930	2120	

(1) The luminous flux tolerance is ± 7%

■ **Chromaticity Coordinates**



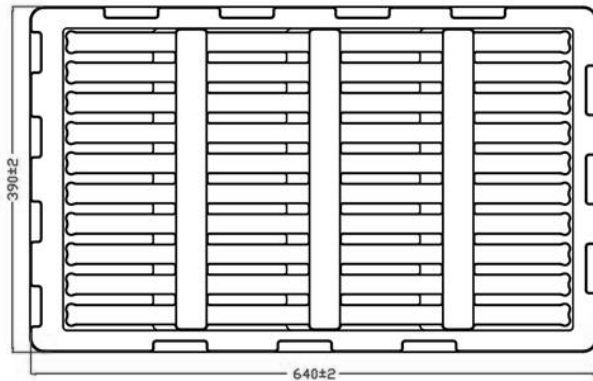
Nominal ANSI CCT	Color Space	Target Center Point (cx, cy)	Major Axis,a	Minor Axis,b	Ellipse Rotation Angle
2700K	Single 4-Step MacAdam ellipse	(0.4578, 0.4101)	0.0186	0.0095	54.1
6500K		(0.3123, 0.3282)	0.0089	0.0038	58.6

Packing Procedure

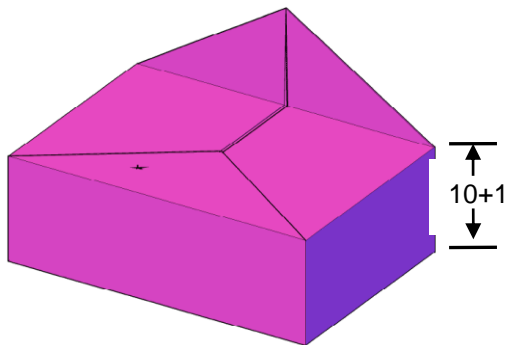
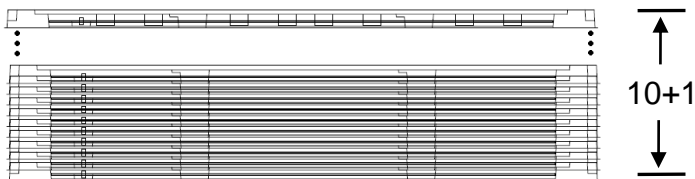
Packing Specification

■ Package instruction

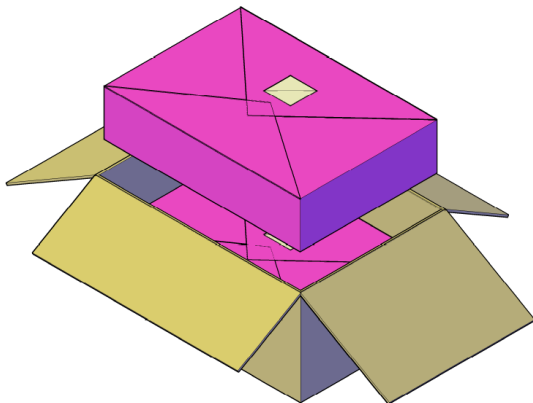
One tray composed of maximum 10/20 pcs for LBI-5620 / LBI-2820.



One antistatic bag composed of maximum 10 + 1 trays and one upper lid-tray.

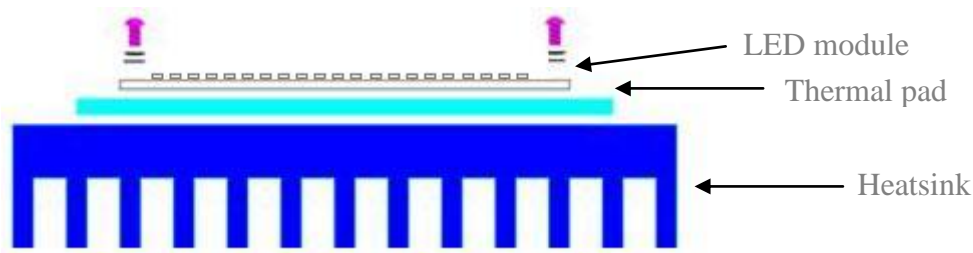


One carton contains maximum 2 bags.



Precautions

1. Avoid the application of any stress to the resin portion of LED.
2. Avoid any contact by a sharp metal nail or other materials with the resin portion of LED.
3. This product should be secured firmly by fastening screws on both sides of the product.
Please be careful not to apply any stress to the product during the clamping operation.



4. For fixing this product to the outer heat sink, thermal pad or thermal glue should be applied between backside of substrate and heat sink so that the product can dissipate heat completely.
Please avoid product deformation when fixing the clamping operation.
5. Handling of static electricity
 - These products are sensitive to static electricity charge. Please prevent any static electricity within the assembling process.
 - All devices, equipment and machinery must be properly grounded. It is recommended that precautions be taken against surge voltage to the equipment that mounts the LEDs.
 - It is easy to find static-damaged LEDs by a light-on test.
6. Please store the LED modules away from dust and moisture. The LED modules should be kept at room temperature, 60% RH environment or less.
7. Please ensure that heat and electronic generation is not in excess of the absolute maximum rating.

Smart Lighting Amazing Life

Lextar Electronics Corp. is the leading LED (Light Emitting Diode) maker integrating upper stream epitaxial, middle stream chip, and downstream package, SMT and LED lighting applications. Founded in May, 2008, Lextar is a subsidiary of AU Optronics, the leading TFT-LCD and solar PV manufacturer. Lextar's product applications include lighting and LCD backlight. Lextar's manufacturing sites include Hsinchu and Chunan in Taiwan, and Suzhou in China. The company turnover in 2010 is 266 million USD.