

PLCC 2835 High Efficiency (IP20) Series Lightbar



Features :

- High Brightness SMD LED
- Low Power Requirement & Energy Efficient
- Suitable for Restricted Space

Typical Applications :

- Auditorium Walkway Lighting
- Stairway Accent Lighting
- Cabinet Lighting

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General Information

Introduction

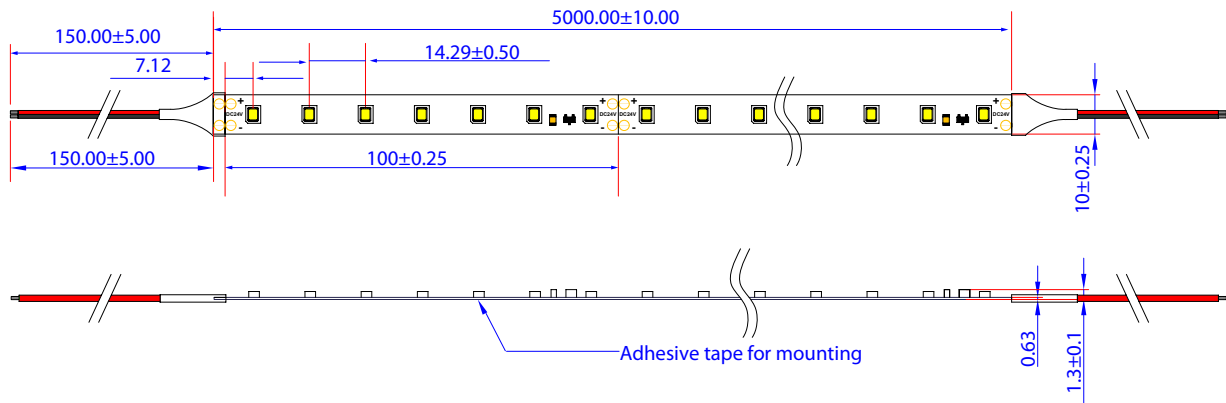
High efficiency Lightbar is a strip of lighting module available in varying colors. Its flexible circuit board not only enables novel design thinking with bendable light source, but also offers a wide range of applications with dividable lighting segments. Luminous efficacy over 130lm/W.

Ordering Code Format

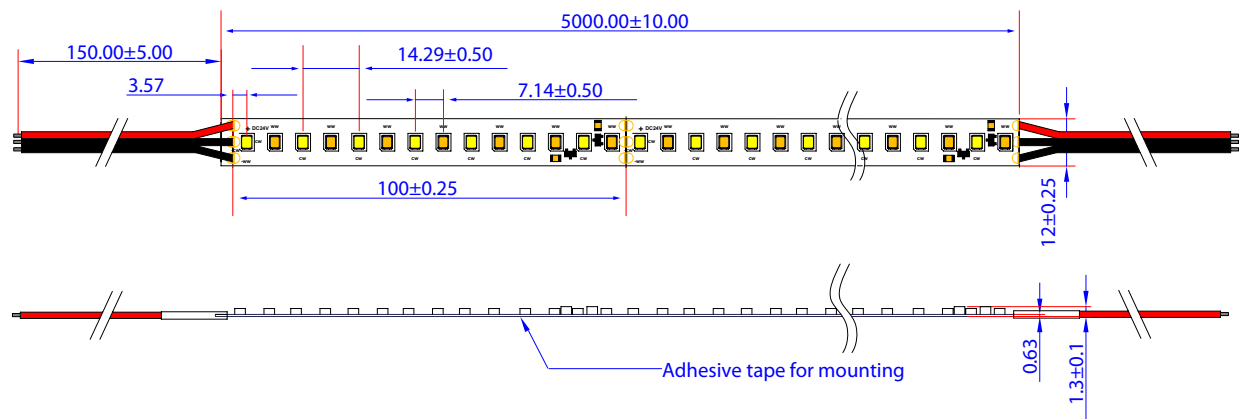
<u>6</u>		<u>L B R 1</u>		<u>x x</u>		<u>J</u>		<u>E 0</u>		<u>x</u>		<u>x x x</u>		<u>x x</u>	
X1		X2		X3		X4		X5		X6		X7		X8	
X1		X2		X3		X4		X5							
Item		Series		Emitting Color		Driver		Max Length							
6	Module	LBR1	FPC	CW	Cool White	J	CV 24V	E0	5M						
				NW	Neutral White										
				WW	Warm White										
				M6	CW+WW										
X6		X7		X8											
Emitter		Number of LEDs (M)		Serial No.											
S	2835	070	70pcs	xx	--										
		080	80pcs												
		140	140pcs												

Product Dimensions

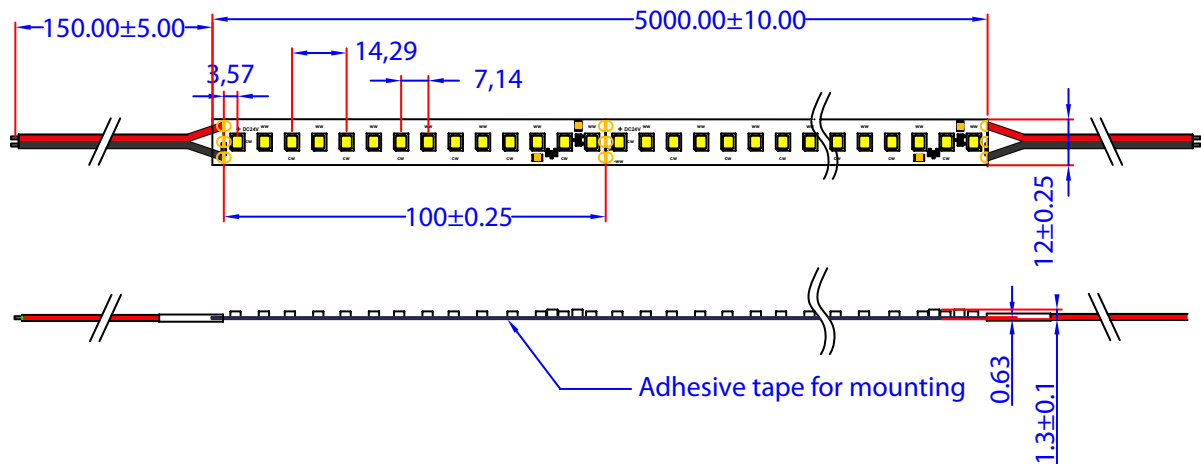
2835-70LED/M Series Dimensions (CV 24V IP20)



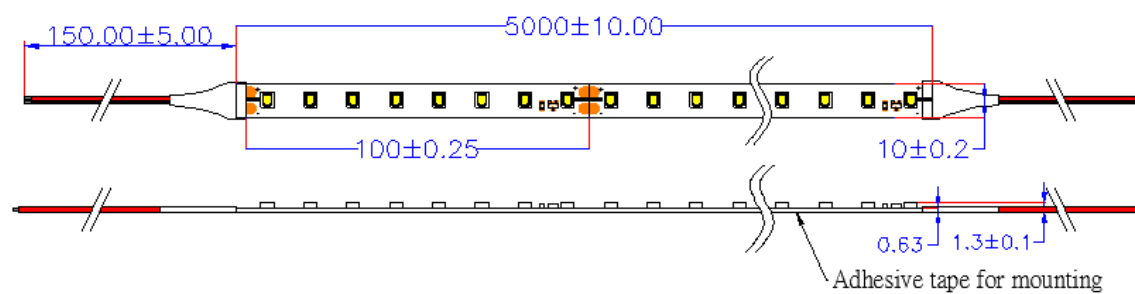
2835-140LED/M Series Dimensions (CV 24V IP20)



2835-140LED/M Series Dimensions (CV 24V IP20)



2835-80LED/M Series Dimensions (CV 24V IP20)

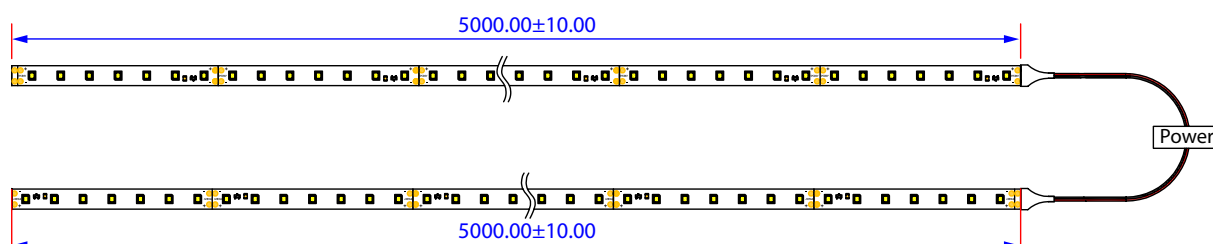


Absolute Maximum Ratings

Parameter	Symbol	Value	Units
Thermal Measurement Point	T_c	80	°C
Operating Temperature	T_{opr}	-20 ~ +40	°C
Storage Temperature	T_s	-20 ~ +85	°C
Number of FPC Connection	-	15	M

Notes:

1. Proper current derating must be observed to maintain junction temperature below the maximum at all time.
2. LEDs are not designed to be driven in reverse bias.
3. Strongly recommended one power connection one set FPC, If over two set FPC recommended connection power between two FPC (Drawing).
4. If use under bending condition, bending position should avoid area of resistance, diode or triode and the bend angle couldn't be less than 45° for long time.



Electric-Optical Characteristics (T_j=25°C)

2835/24V-70LED Series

Order Code	Color	CCT (K/nm)	Input Voltage (CV)	LED lm(M)	Efficiency (Lm/W)	Number of LEDs (M)	Power (W/M)	IP	CRI
6LBR1CWJE0S07001	Cool White	5700K	24	2010	140	70	14.4	20	80
6LBR1NWJE0S07001	Neutral White	4000K	24	1940	135	70	14.4	20	80
6LBR1WWJE0S07001	Warm White	3000K	24	1870	130	70	14.4	20	80

2835/24V-140LED Series

Order Code	Color	CCT (K/nm)	Input Voltage (CV)	LED lm(M)	Efficiency (Lm/W)	Number of LEDs (M)	Power (W/M)	IP	CRI
6LBR1CWJE0S14001	Cool White	5700K	24	4020	140	140	28.8	20	80
6LBR1NWJE0S14001	Neutral White	4000K	24	3880	135	140	28.8	20	80
6LBR1WWJE0S14001	Warm White	3000K	24	3740	130	140	28.8	20	80
6LBR1M6JE0S07001	Cool White	5700K	24	2010	140	70	14.4	20	80
	Warm White	3000K	24	1940	135	70	14.4	20	80

2835/24V-80LED Series

Order Code	Color	CCT (K/nm)	Input Voltage (CV)	LED lm(M)	Efficiency (Lm/W)	Number of LEDs (M)	Power (W/M)	IP	CRI
6LBR1CWJE0S08001	Cool White	5700K	24	1830	170	80	10.8	20	80
6LBR1NWJE0S08001	Neutral White	4000K	24	1780	165	80	10.8	20	80
6LBR1WWJE0S08001	Warm White	3000K	24	1720	160	80	10.8	20	80

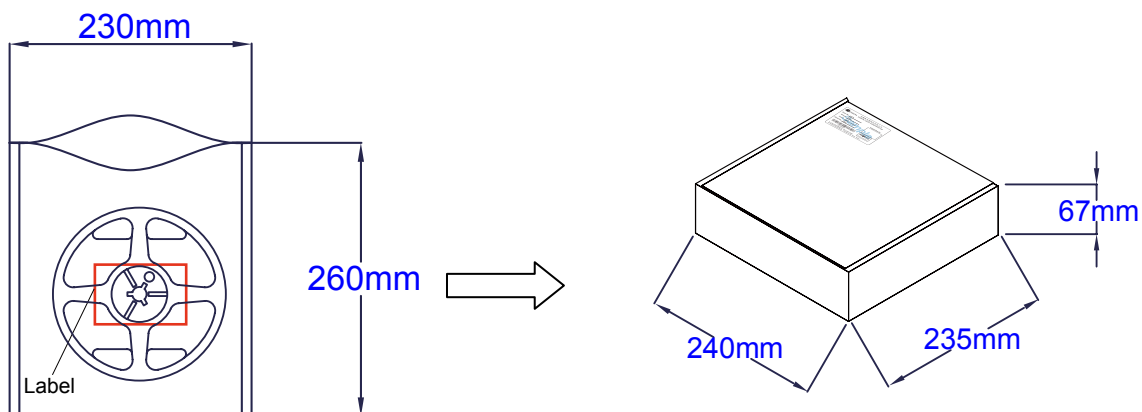
Notes:

1. CCT/Wavelength and Forward Current are measured with an accuracy of $\pm 10\%$
2. Lumen Flux is measured with an accuracy of $\pm 10\%$
3. Power is measured with an accuracy of $\pm 10\%$

Product Packaging Information

PLCC Lightbar FPC Material Description

Package Type	Part NO.	6LBR1xxNx000000x	Dimension
Antistatic bag		1 Reel	260mm x 230mm
Inside box		4 Antistatic bags	240mm x 235mm x 67mm
Outside box		10 Inside boxes	488mm x 364mm x 261mm



EX:



艾笛森光電股份有限公司
EDISON OPTO CORPORATION

Part No. : 6LBR1CWJE0S08001

Color : Cool White(34W3FVB2)

Quantity : 1 Reel(5M)

Lot No. : D1201-12110022

Inspected by:



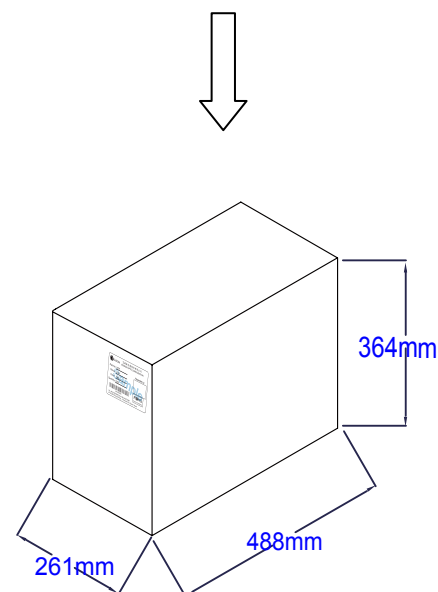
A410000005

Tel +86-2-82276996 Fax +86-2-8227-6997
4F No.800 Chung-Cheng ., Chung-Ho City Taipei. Taiwan

ROHS
Directive Compliance

Label information

Part NO. : Order code
Color : Color(Emitter BIN color)
Quantity : The number of packing
Lot NO. : Date code



Precaution for Use

1. DO NOT use the products with materials containing Sulfur.
2. DO NOT assemble in humid environment or the conditions of containing oxidizing gas such as Cl, H₂S, NH₃, SO₂, NOX, etc.

Environmental Compliance

PLCC lightbar FPC series are compliant to the Restriction of Hazardous Substances Directive or RoHS. The restricted materials including lead, mercury cadmium hexavalent chromium, polybrominated biphenyls (PBB) and polybrominated diphenyl ether (PBDE) are not used in PLCC lightbar FPC series to provide an environmentally friendly product to the customers.

Application Notes

PLCC Lightbar series are available in red, yellow, green, blue, white, neutral white and warm white for application such as under-cabinet lighting, cove lighting and wall washing. Moreover, additional fine-tuned high color rendering index (CRI) version of white, neutral white and warm white all make PLCC Lightbar the ideal lighting choice for vividly building or decoration products, presenting the products outline.

Revision History

Versions	Description	Release Date
1	Establish order code information	2017/05/16

About Edison Opto

Edison Opto is a leading manufacturer of high power LED and a solution provider experienced in LDMS. LDMS is an integrated program derived from the four essential technologies in LED lighting applications- Thermal Management, Electrical Scheme, Mechanical Refinement, Optical Optimization, to provide customer with various LED components and modules. More Information about the company and our products can be found at www.edison-opto.com

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