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Technical data

CODE:	581101
PRODUCT:	LED BAR
NOTE:	TECHNICAL DATA
IMAGE:	
LAST UPDATE:	3/2026

LED BAR

2835 SMD | Lens Bare | DC 24V | IP 20 | 3 Year

16pcs 2835SMD LEDs, 960*17mm, equipped with lens, bare board series, single-sided lighting, 24V constant voltage, SM connector, LED rigid bar

Features

- 2835 SMD LED with high efficiency, low attenuation and long life
- Light and simple rigid-bar design with stable quality
- Secondary optical distribution, uniformligh
- Simple structure, easy installation
- Can be cut every LED, suitable for different projects

Applications

- Suitable for 3~8 cm depth backlighting light boxes, the best for 5- 6 cm back lighting light boxes

Warranty

- 3 years or 13,000 hours, whichever comes first

Optical and Electric data

Color	CCT (K)	CRI	Beam angle (°)	Lumen (lm/m)	Efficiency (lm/W)	Voltage (V DC)	Current (mA)	Power (W/piece)
PW	7000	≥80	160	864	150	24	0.24	5.76

Other features

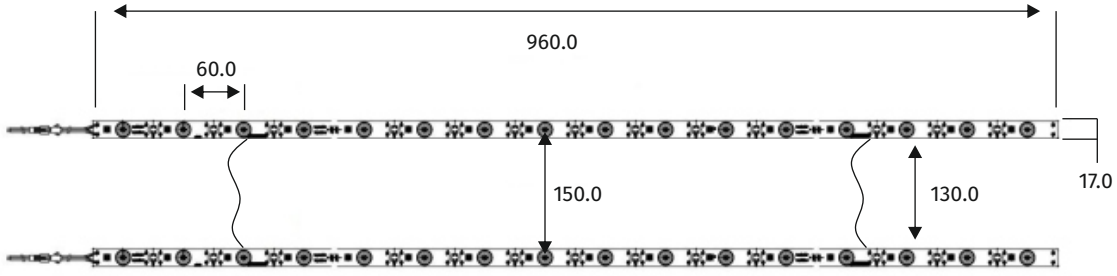
IP grade	Operating temperature (°C)	Storage temperature (°C)	Length (mm)	Cascading (pcs)	LED Qty (pcs)	Weight (g/piece)	Distance betweeen units (mm)
Ip20	-25~+60	-25~+70	960	10	16	70	150

Notes:

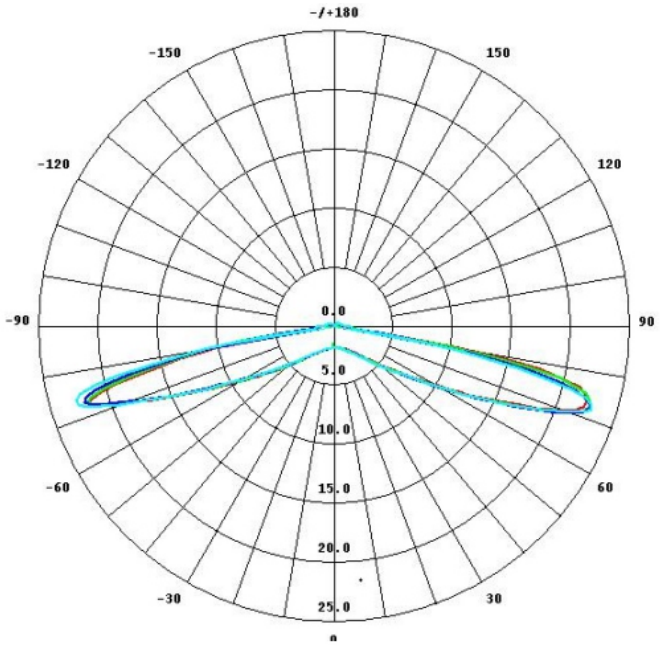
- Testing environment temperature: 25±2℃[77±3.6℉]
- The above data are based on every single LED rigid bar
- The actual data of each single product may differ from above typical data due to the particularity of manufacturing process
- The above "--" means the parameters are not required temporarily

Profile drawings

Unit: mm



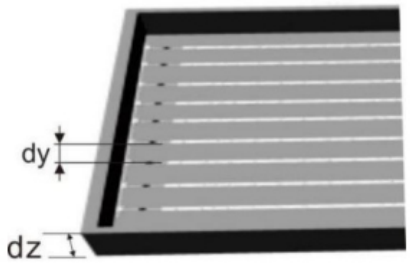
Light distribution



Lightbox depth dz (mm)	Distance between every unit dy (mm)	Surface illuminance range (lux)
25	60	9000-12000

Notes:

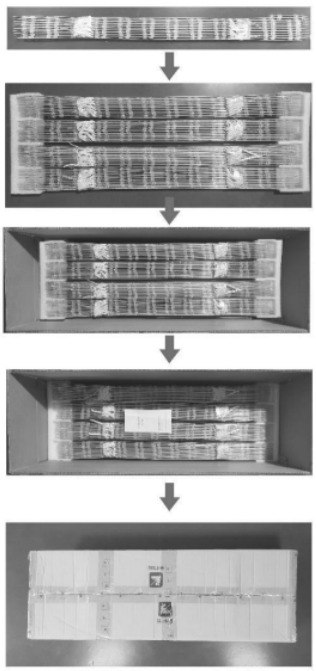
- The above data is tested from the led bar with color temperature of 7,000K
- The above lightbox use acrylic white board with 3mm depth and 54.4% light transmittance
- The above illuminance is the minimum value tested on the even surface
- The above data is for reference only



Packaging information

Length (mm)	Width (mm)	Height (mm)
1070	264	216

Packaging diagram



LED Bar

↓

LED bar/roll, layer/roll, boxes/layer

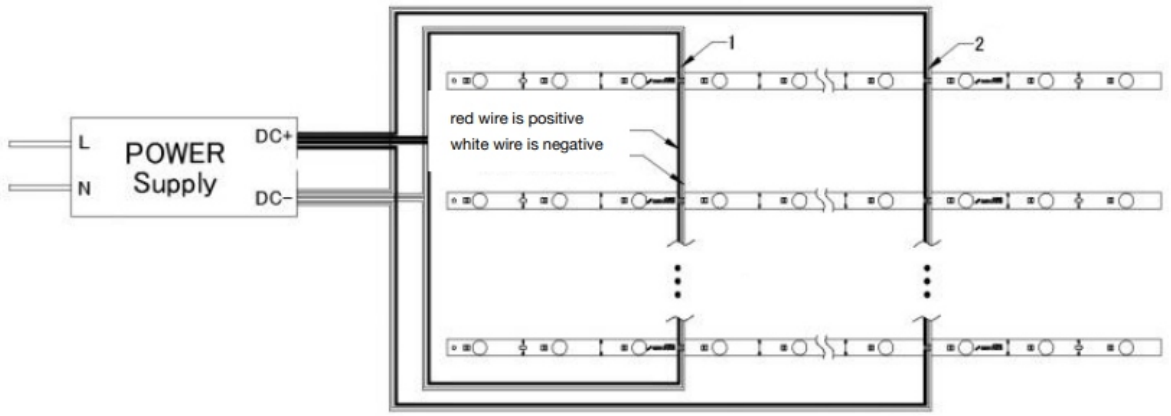
↓

Specification will be put on the surface

↓

Sealing the carton

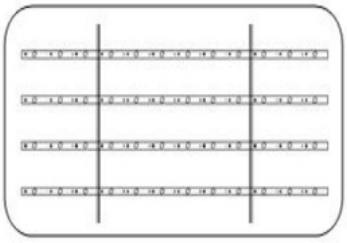
Connection instruction



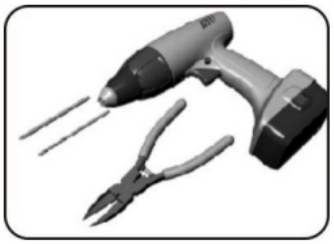
Notes:

- Connection mode 1 and 2 lines must be coneccted to the main line at the same time

Accessories and tolls



LED rigid bar

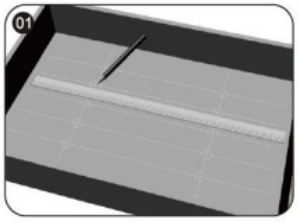


Cutting nipper,
Electronically Drill and drilling

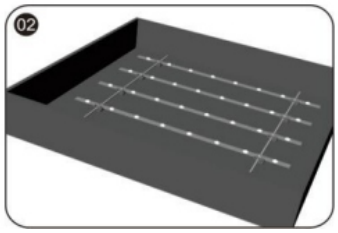
Connector

Screw (ST2.9*8)

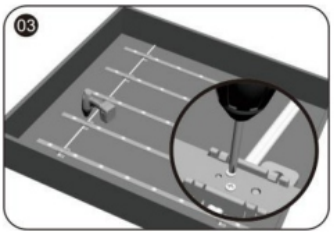
Installation steps



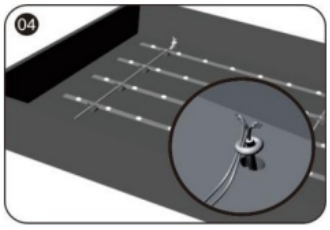
Clean the installing surface



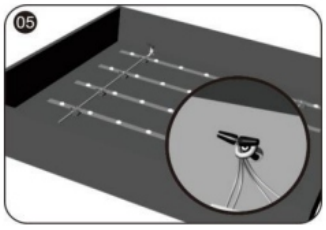
Mark the installing position
and determine the needed qty



Screw the LED rigid bar
by screws



Drill a hole at the appropriate position with the electrical drill, pull the power lead through it, and dispose the lead at the hole with fixation and protection



Connect the „+" and „-" of rigid bars to those of power supply out put correctly, and dispose the joints with proper protection; and then dispose the other end with insulation protection

Troubleshooting

Problem	Possible reasons	Solution
All LEDs don't work	• The power supply did not connect to power grid • No electricity due to short-circuit of external power supply • The wires of LED rigid bar connect to power supply output reversely	• Power on • Remove the malfunction caused by short-circuit, power on again • Check the connecting and ensure the wires are connected correctly

Problem	Possible reasons	Solution
Part of LEDs don't work	• Part of power supplies do not have output • Part of rigid bar wires have malfunction • Particular rigid bar connected reversely	• Check the power supply system • Check the power supply system • Correct connection

Problem	Possible reasons	Solution
Brightness of LEDs is weak or uneven	• Overloaded power supply • The power loss of power circuit is huge or the power loss of each circuit existing big difference • Exceed in qty of rigid bars in series	• Ensure working voltage of rigid bars is within ±5%V of rated voltage • 1. Shorten the length of wires between the first rigid bar and power supply or replaced with wires with bigger diameter • 2. Ensure the cascading qty of string is less than or equal to the allowed maximum cascading qty, and each rigid bar cascading qty is well-balanced • Lessen the cascading qty for rigid bar and ensure the qty for each electrical circuit is within the maximum cascading qty

Problem	Possible reasons	Solution
LEDs are blinking	• Poor contacted in the joints • Failures in power supply	• Find out and tackle malfunction immediately • Replace power supply

Declaration

- If the external flexible cable of light box is damaged, please replace it by its manufacturer or its service agent or qualified person to avoid a hazard.
- The specific installation and cuations please refer to the user manual.
- The given data in this specification is based on our standard product. There may be existed slight difference compared with actual products.
- All illustrations in this specification are for reference only.
- This product is subject to change or modify without prior notice.