

Specification

Prepared	Checked	Approved	Accepted	Confirmed	Approved

2835
SMD

Lens
IP20

DC
24V

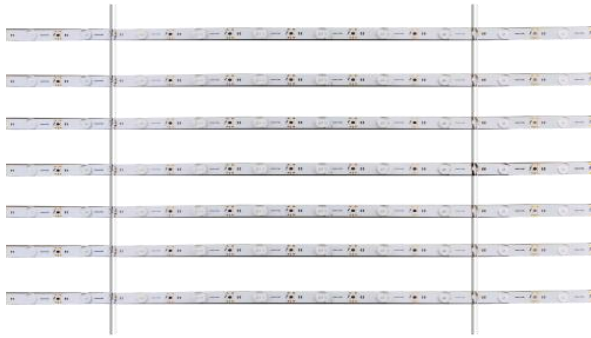
IP
20

3
Years

Model: ☉ Z6S16TC-1

16pcs 2835 SMD LEDs, 960*17mm, single-sided lighting with leds, IP20, roller-shutter structure, constant voltage, DC24V, LED rigid bar

Figure:



Features:

- ☉ 2835 SMD LED with high efficiency, low attenuation and long life;
- ☉ Simple rigid bar structure, stable quality;
- ☉ Secondary optical light distribution, uniform light;
- ☉ Roller shutter structure design, easy installation;
- ☉ Cuttable design per unit to satisfy diverse engineering requirements;
- ☉ Suitable for ultra-thin light box with 2.5cm [0.98in] depth.

Applications:

- ☉ Suitable for 2.5~6cm [0.98~2.36in] depth, optimal for 3~4cm [1.18~1.57in] depth back-lit light box.

Warranty:

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

Optical and Electrical Parameters:

P/N	LED Color	CCT (K)	CRI	SDCM	Beam Angle (°)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Working voltage (VDC)	Working current (mA)	Power (W/piece)
Z6S16TC-1	Pure White	7000	≥80	--	160	864	150	24	0.24	5.76

Others:

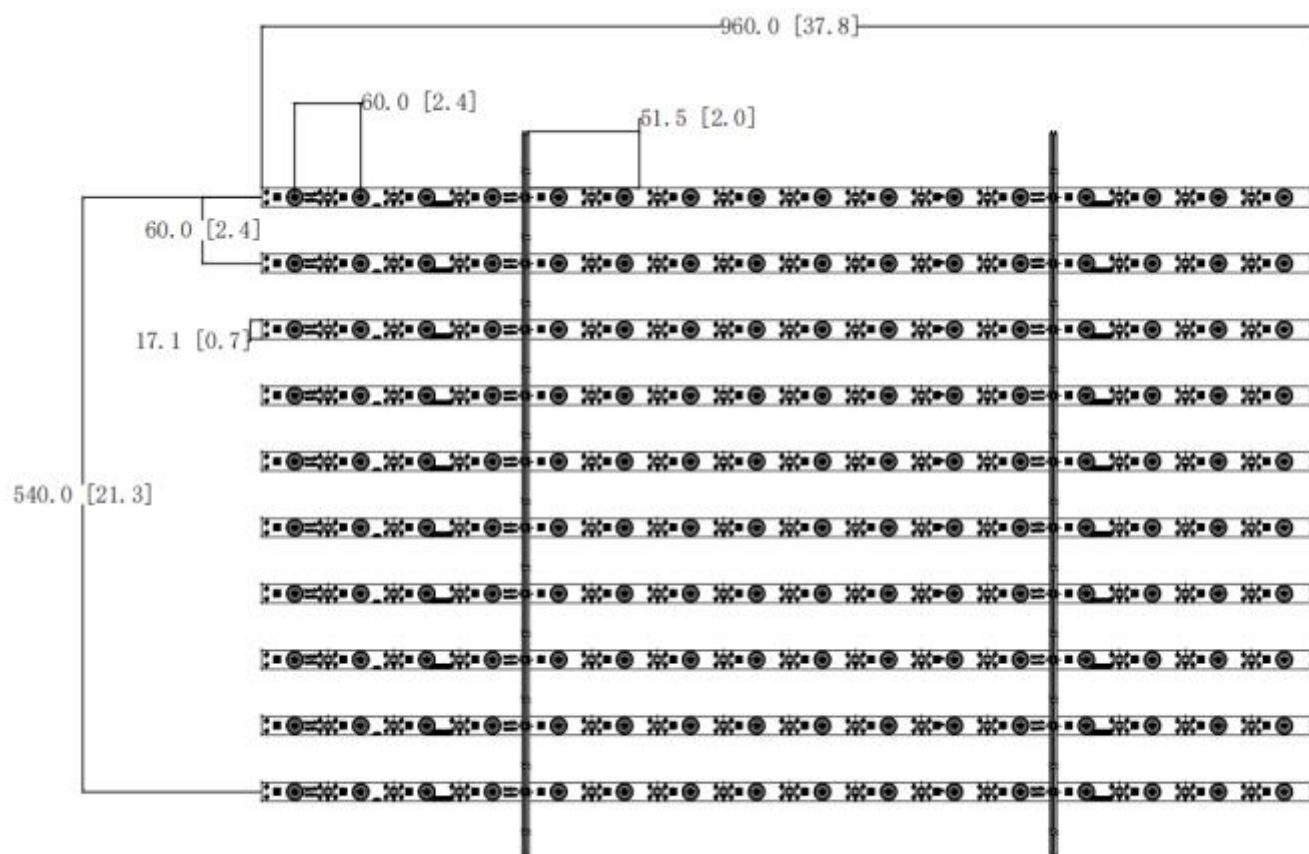
P/N	IP Grade	Operating Temp		Storage Temp		LED QTY (pcs)	Standard Length (mm)	Weight Per Unit		Cascading QTY (pcs)
		(°C)	(°F)	(°C)	(°F)			(g)	(lb)	
Z6S16TC-1	IP20	-25~	-13~	-25~	-13~	16	960	70	0.154	10
		+60	+140	+70	+158					

Notes:

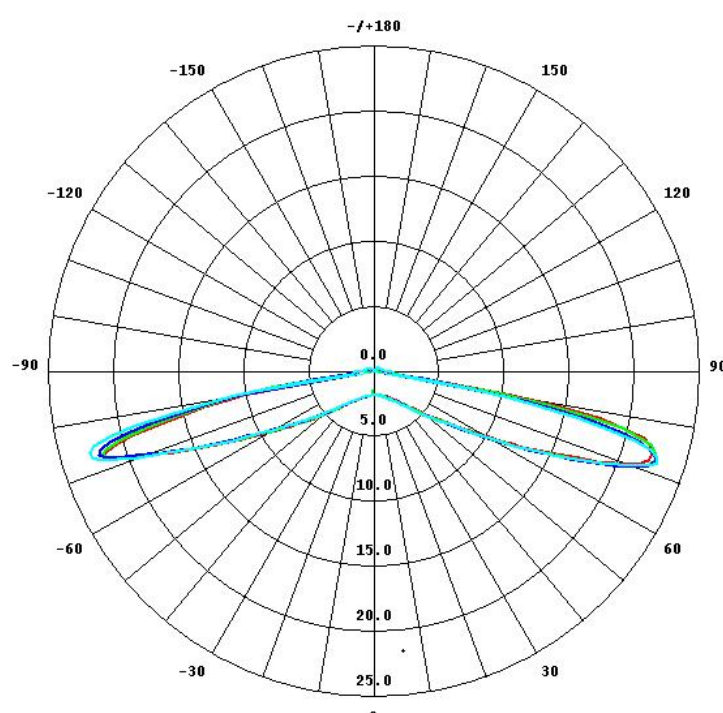
- ① Testing environment temperature: 25±2°C[77±3.6°F];
- ② The above “--” means the parameters are not required temporarily;
- ③ The above data are based on every single LED rigid bar;The actual data of each single product may differ from above typical data due to the particularity of manufacturing process.

Profile Drawings:

Unit: mm [inch]

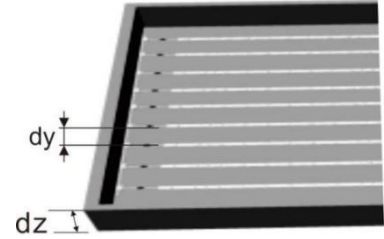


Light Distribution Curve:



Layout Data:

Light box depth dz (mm)	Spacing between each bar dy (mm)	Surface illuminance range (lux)
25	60	9000-12000



Notes

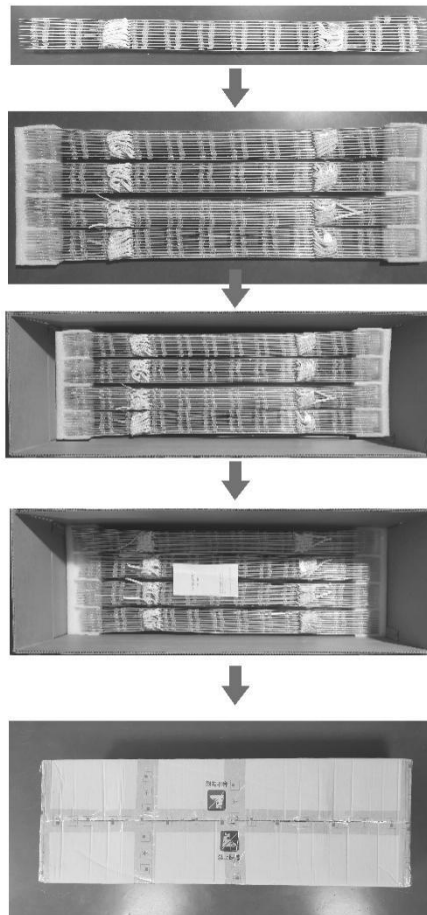
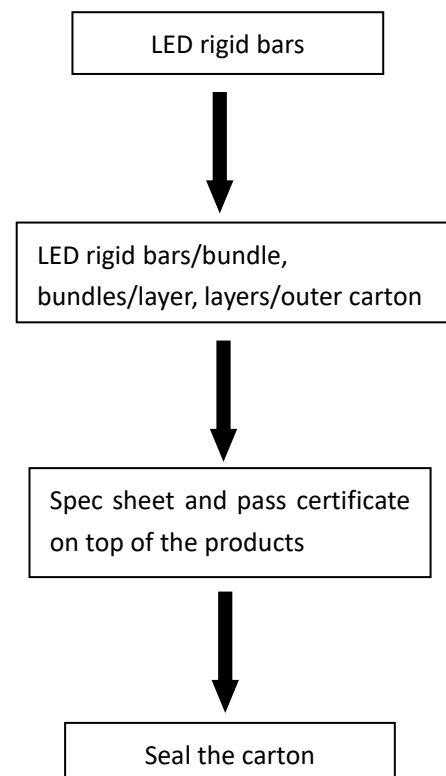
- (1) The above data is tested from the corresponding products with color temperature of 7000K;
- (2) The above light box uses acrylic white board with 3mm depth and 54.4% light transmittance;
- (3) The above illuminance is the minimum value tested on the even surface;
- (4) The above data is for reference only.

Packaging Information:

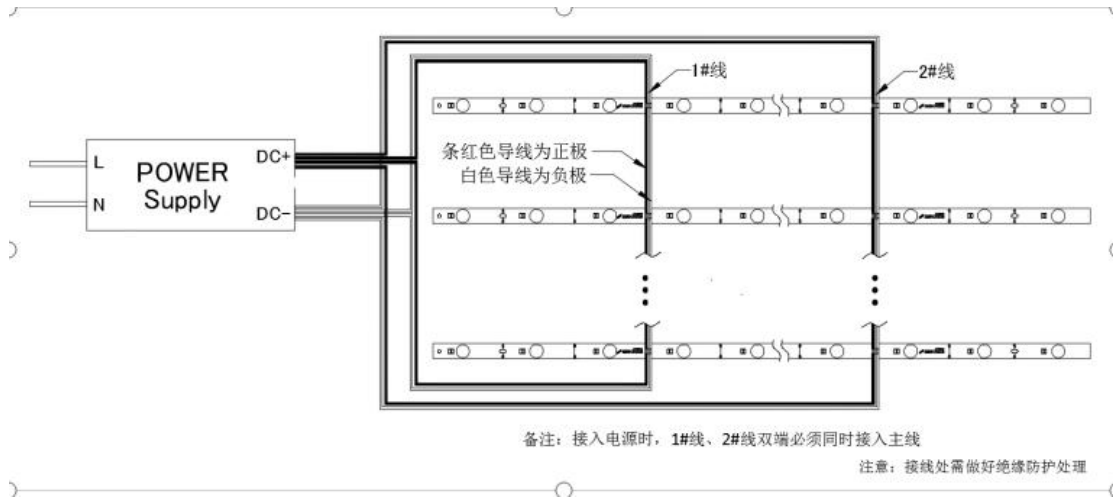
P/N	Qty per Layer Layer (pcs)	Layers per Carton Carton (layers)	Total Qty (pcs)	Total weight		Outer Carton					
				(Kg)	(lb)	length		Width		Height	
						(mm)	(inch)	(mm)	(inch)	(mm)	(inch)
Z6S16TC-1	60	5	300	22	48.5	1050	41.3	305	12.0	210	8.3

Notes: Above qty and weight of packing is only for the packing shown in the picture, which might be different from other packing modes, thus for actual qty and weight please refer to actual products.

Packaging Diagrams:

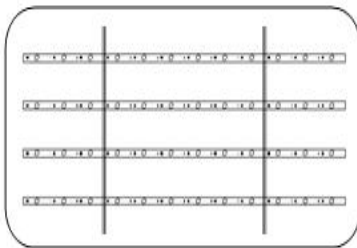


Connection Instruction:



Parts & Tools:

Product Spare Parts



LED rigid bars

Self-provided Tools



Cutting nipper, Electrical Drill & Drilling bits

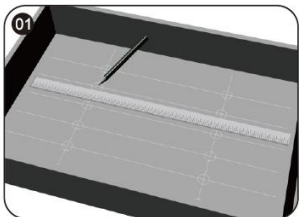


Terminals

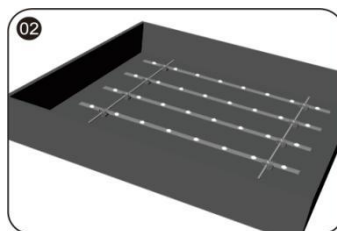


Screws (ST2.9*8)

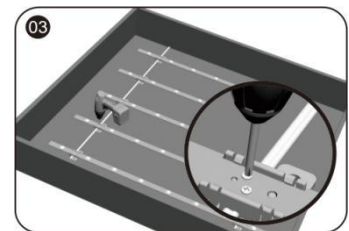
Installation Steps:



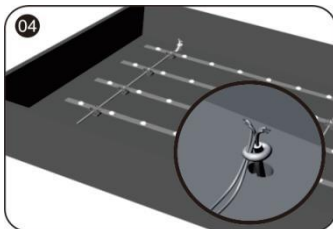
- 01 Clean the mounting surface.



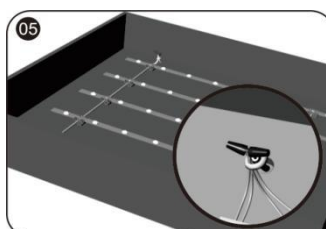
- 02 Determine the installing position for rigid bar and the needed qty. Make sure to install it in the middle.



- 03 Fix the rigid bars by screws.



- 04 Drilling 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.



- 05 Connect the "+" and "-" of rigid bars to those of power supply output correctly and dispose the joints with proper protection, and the other end with insulation protection.

Safety Precautions and Others :

- ⦿ During installation, strictly avoid live operation. Exercise extreme caution for high-voltage product.
- ⦿ When using high-voltage products, the power circuit must be connected to a leakage protection switch.
- ⦿ If welding work is required on the light box where this product is installed, disconnect the power to the product first.
- ⦿ After installing this product in a fabric light box, do not use it without the fabric cover or leave it idle for an extended period. The fabric cover must be applied within 48 hours.
- ⦿ Before installation, check that the product parameters match your requirements (refer to the Product Specification Sheet or product label).
- ⦿ Strictly prohibit exceeding the maximum number of units in a series connection. The total number of cascaded units must not exceed 10.
- ⦿ Installation and maintenance must be carried out by qualified personnel. Non-professionals are strictly prohibited from performing these tasks.

Troubleshooting :

Malfunctions	Possible Causes	Solutions
All LEDs off	1. No power supply from mains	Power on
	2. No electricity due to short-circuit or open-circuit of external power supply	Remove the malfunction, power on again
	3. The wires of rigid bars connect to power supply output reversely.	Check the connecting and ensure the wires are connected correctly.
Partial LEDs failure	1. Part of power supplies do not have output.	Check the power supply system.
	2. Part of rigid bar wires have malfunction.	
	3. Part of the wires of rigid bars connect to power supply output reversely.	Correct connection
Low or uneven brightness	1. Overloaded power supply.	Replace it with higher power supply
	2. The power loss of power circuit is huge or the power loss of each circuit existing big difference	Ensure working voltage of rigid bars is within $\pm 5\%$ V of rated voltage. (1. Shorten the length of wires between the first 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 bar cascading qty is well-balanced.)
	3. Exceed in qty of rigid bars in series.	Lessen the cascading qty for rigid bars and ensure the qty for each electrical circuit is within the maximum cascading qty.
LEDs flickering	1. Poor contacted in the joints.	Find out and tackle malfunction.
	2. Failures in power supply.	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 cautions 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.
- ⦿ RISHANG OPTOELECTRONICS CO., LTD. reserves the right of final explanation for this specification.

<End>

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Official Account

