

Specification

Prepared	Checked	Approved	Accepted	Confirmed	Approved

CE

RoHS

3535B
SMD**Bare**
Lens**DC**
24V**IP**
20**5**
Years

Model: ☉ Z6103WD

3pcs 3535B SMD LEDs (Samsung), 240*27.5mm, single color, equipped with lens, bare board series, constant current, 24Vdc, edge LED rigid bar

Picture:**Features:**

- ☉ Samsung 3535 LED guarantees high luminous efficacy;
- ☉ Special lens design makes light box lighting simple and easy, solving the problem of ripples, and guaranteeing high uniformity of surface illuminance of light box;
- ☉ Dimmable design, can adjust to optimal brightness in different time period, energy saving and environment conservation;
- ☉ CE, RoHS compliant, flame retardant rating is UL94V-2

Applications:

- ☉ Suitable for indoor use in within 200cm width, 8-20cm depth single-sided light box or 14-40cm depth double-sided light box.

Warranty:

- ☉ 5 years or 22000 hours, whichever comes first

Optical and Electrical Parameters:

P/N	LED Color	CCT (K)	CRI	SDCM	Beam		lm	lm/W	V DC	mA	W/piece
					Angle	(°)					
Z6103WD	Pure White	6000	≥75	--	10°40		804	122	24	275	6.6
	Warm White	3000	≥75	--	10°40		678	103	24	275	6.6
	Daylight White	4000	≥75	--	10°40		828	125	24	275	6.6

Others:

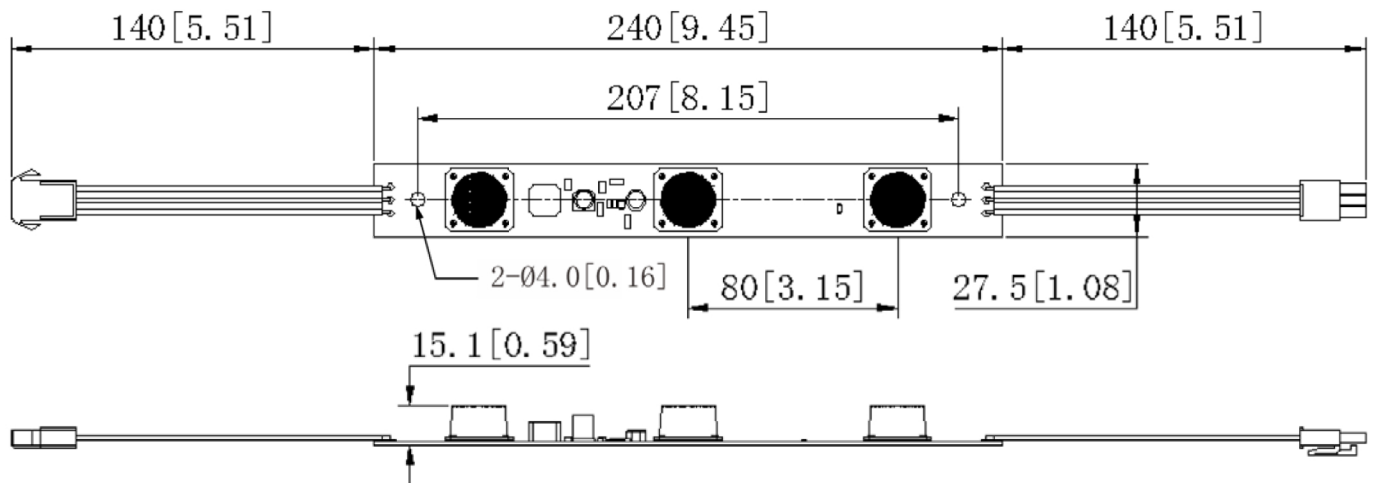
P/N	IP Grade	Operating Temp (°C)	Storage Temp (°C)	LED Qty (pcs)	Standard Length (mm)	Weight (g/pcs)
Z6103WD	IP20	-25~+60	-25~+70	3	240	58.4

Notes:

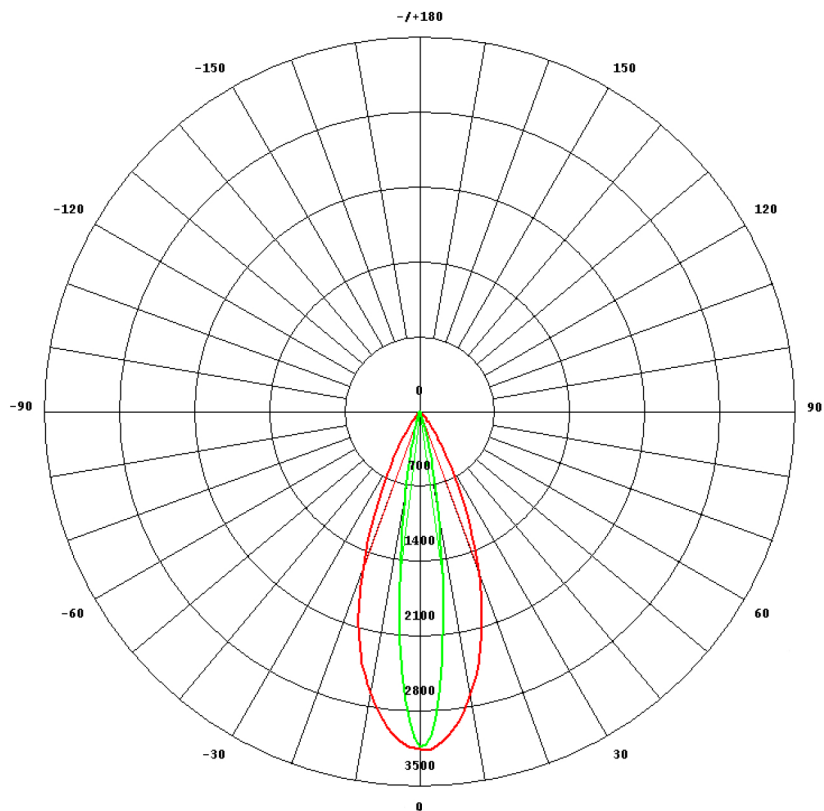
- ① Testing environment temperature: 25±2°C [77±3.6°F];
- ② The above “--” means the parameters are not required temporarily.
- ③ The actual data of each single product may differ from above typical data due to the particularity of manufacturing process.

Profile Drawings:

Unit: mm[inch]



Light Distribution Curve:

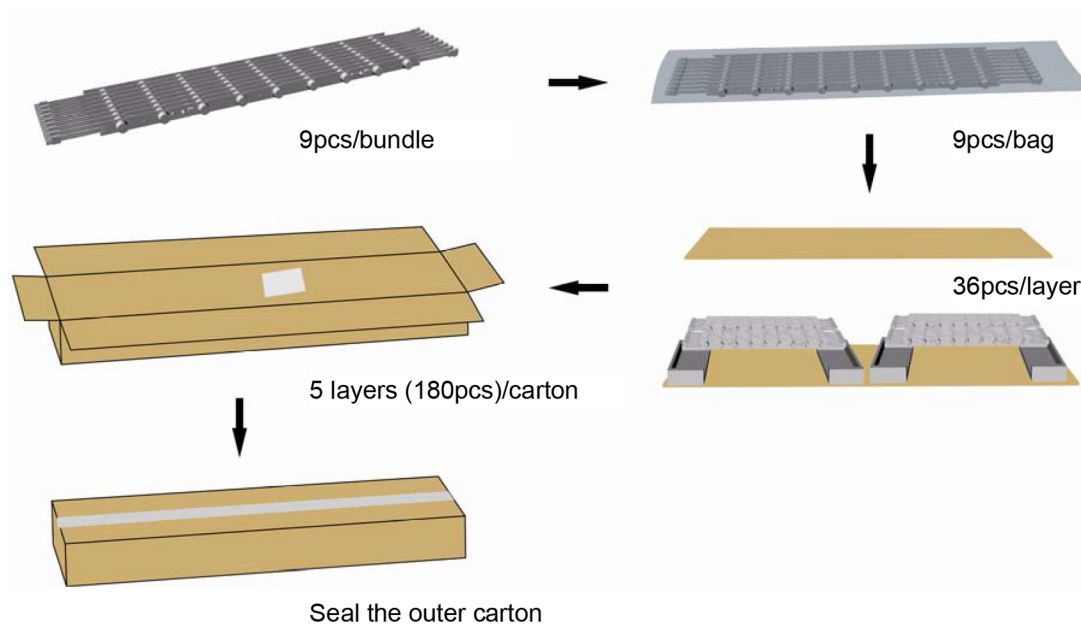


Packaging Information:

P/N	Qty(pcs/layer)	Qty(layer/carton)	Total Qty(pcs)	Total Weight (Kg)	Outer carton size (mm)		
					length	width	height
Z6103WD	36	5	180	12.3	955	335	250

Notes: The actual packed quantity and weight subject to change without prior notice.

Packaging Diagram:



Connection Instruction:

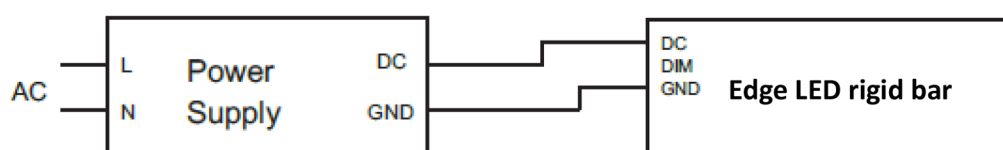


Figure 1: without controller

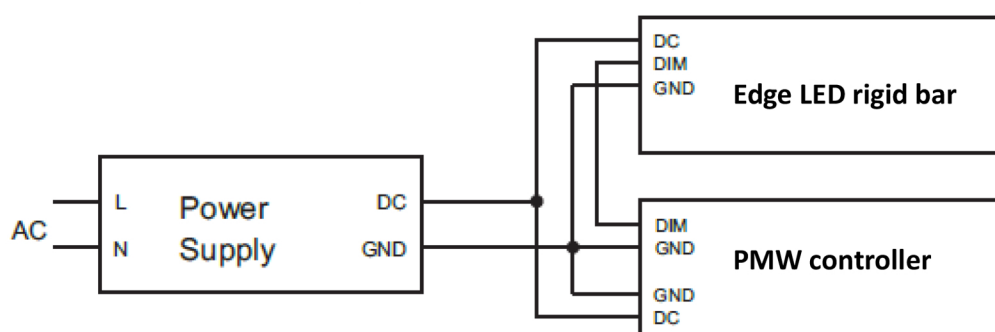


Figure 2: with controller

Parts & Tools:

Product Spare Parts



LED rigid bar

Self-provided Tools

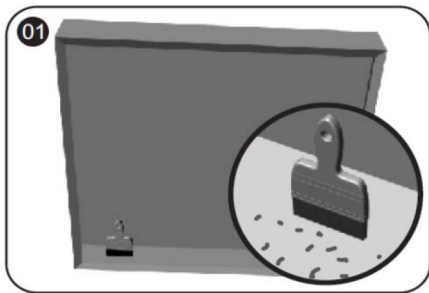


Electrical Drill & Drilling bit

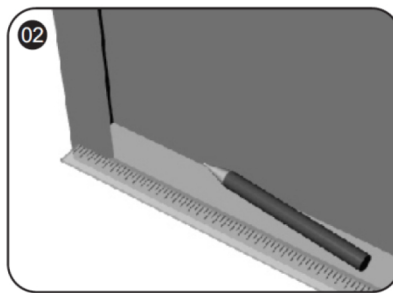


ST2.9*10 Self-tapping screws or ϕ 3 rivets

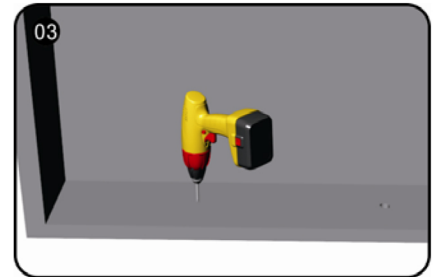
Installation Steps:



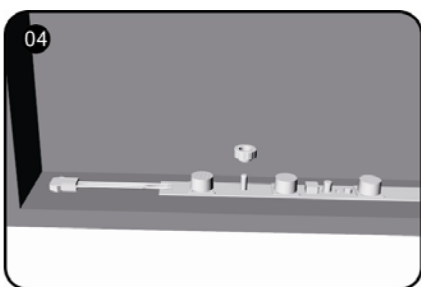
01 Clean the installing surface



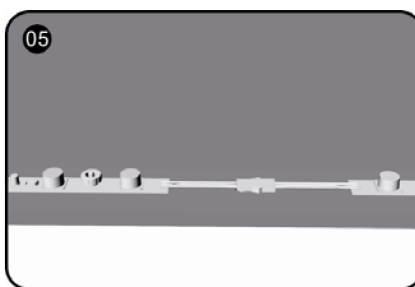
02 Mark the installing position



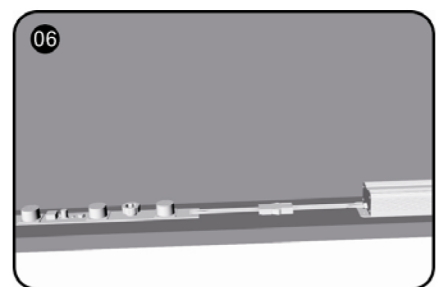
03 Drill bolt holes at the installing position



04 Fix the both ends of rigid bar by bolts and nuts.



05 Connect the rigid bar to rigid bar by terminals



06 Connect to external power supply (connect to the PWM controller meanwhile if needed)

Troubleshooting:

Malfunctions	Possible Causes	Solutions
All LEDs don't work	1. The power supply did not connect to power grid.	Power on
	2. No electricity due to short-circuit of external power supply.	Remove the malfunction caused by short-circuit, power on again.
	3. The wires of LED rigid bar connect to power supply output reversely.	Check the connecting and ensure the wires are connected correctly.
Part of LEDs don't work	1. Part of power supplies do not have output.	Check the power supply system.
	2. Part of rigid bar wires have malfunction.	
	3. Particular rigid bar connected reversely.	Correct connection
Brightness of LEDs is weak or uneven	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 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.)
	3. Exceed in qty of rigid bars in series.	Lessen the cascading qty for rigid bar and ensure the qty for each electrical circuit is within the maximum cascading qty.
LEDs are blinking	1. Poor contacted in the joints.	Find out and tackle malfunction immediately.
	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.

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