

Specification

Prepared	Checked	Approved

Accepted	Confirmed	Approved

UL

CE

RoHS

3030
SMD

Lens
Glue

DC
12V

IP
65

3
years

Model: Z9110QA/Z9120QA

10pcs 3030 SMD LEDs, 505*29*16mm, single side lighting equipped with glue(single component) lens and male and female connectors, constant voltage12V, LED rigid bar/White 18W

20pcs 3030 SMD LEDs, 1000*29*16mm, single side lighting equipped with glue(single component) lens and male and female connectors, constant voltage12V, LED rigid bar/White 36W

Picture:



Features:

- 3030 SMD LED with high power, high brightness, low attenuation and long life;
- Light and simple rigid-bar design with stable quality;
- Low voltage input of DC12V, safe and reliable;
- Simple structure, easy installation;
- CE、RoHS、UL compliant.

Applications:

- Suitable for 8 ~ 40cm depth double-sided light box, 7-20cm single-sided light box, the best application lighting distance is 1.5 meters.

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)	Voltage (V DC)	Current (mA)	Power (W/piece)
Z9110QA	Cold White	7000	≥70	--	12*25	1710	95	12	1500	18
Z9120QA	Cold White	7000	≥70	--	12*25	3420	95	12	3000	36

Others:

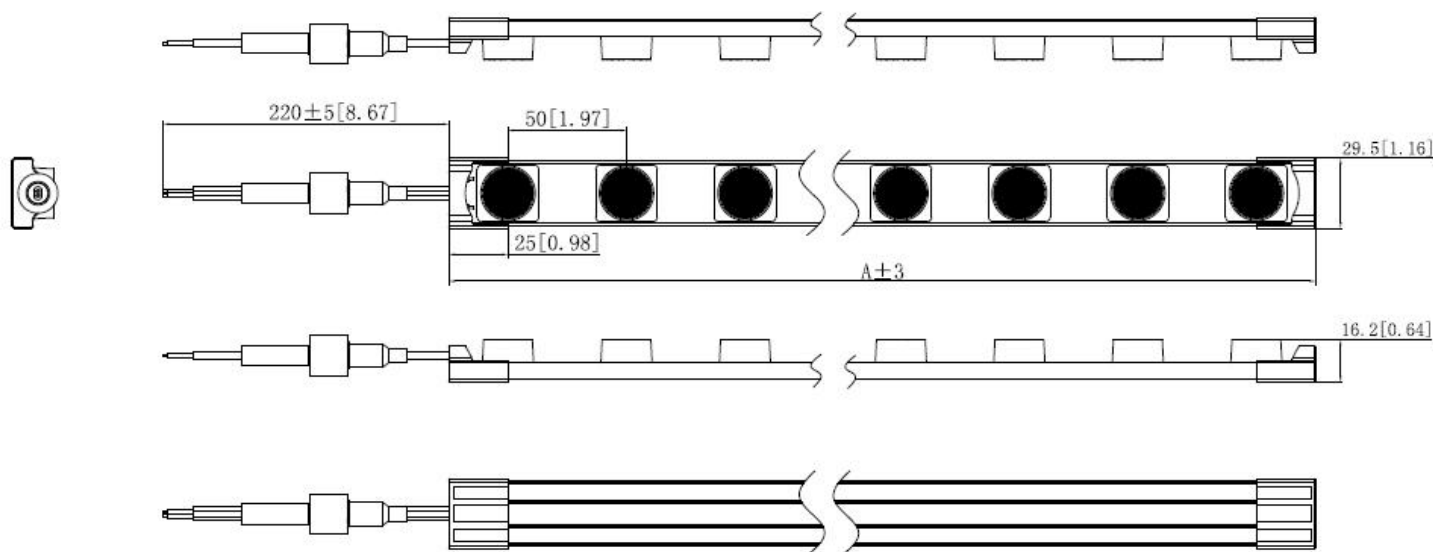
P/N	IP	Operating Temperature (°C)	Storage Temperature (°C)	LED qty (pcs)	Standard length(mm)	Single strip Weight (g)
Z9110QA	IP65	-25~+60	-25~+70	10	505	160
Z9120QA	IP65	-25~+60	-25~+70	20	1000	295

Notes:

- Testing environment temperature: 25±2°C;
- The above data for a single straight strip;
- The actual data of each single product may differ from above typical data which are subject to change without prior notice;
- The above “--” means the parameters are not required temporarily.

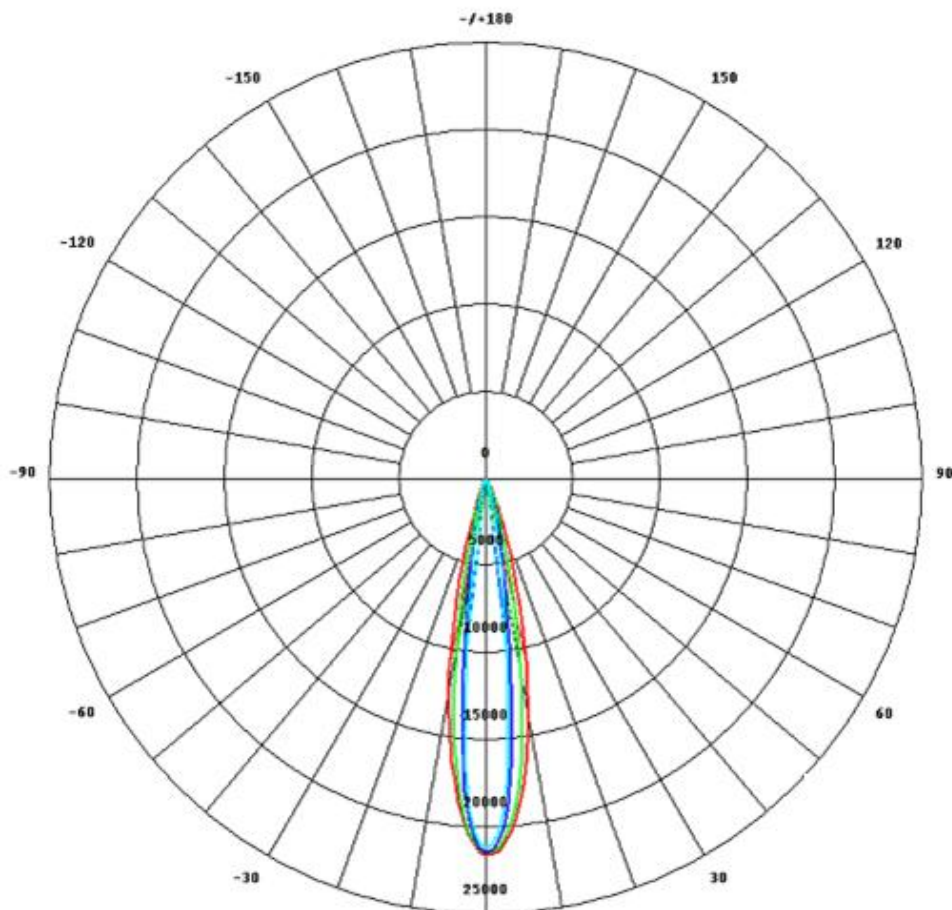
Profile Drawings:

Unit: mm[inch]

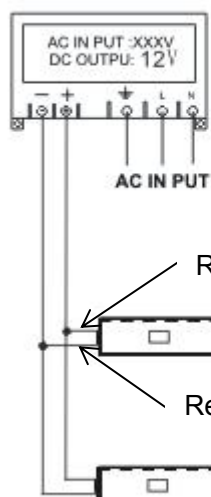


	Z9110QA	Z9120QA
A (mm/inch)	505/19.88	1000/39.37

Light Distribution Curve:



Connection Instruction:



Notes: Connection mode “+” and “-” lines must be connected to the main line at the same time.

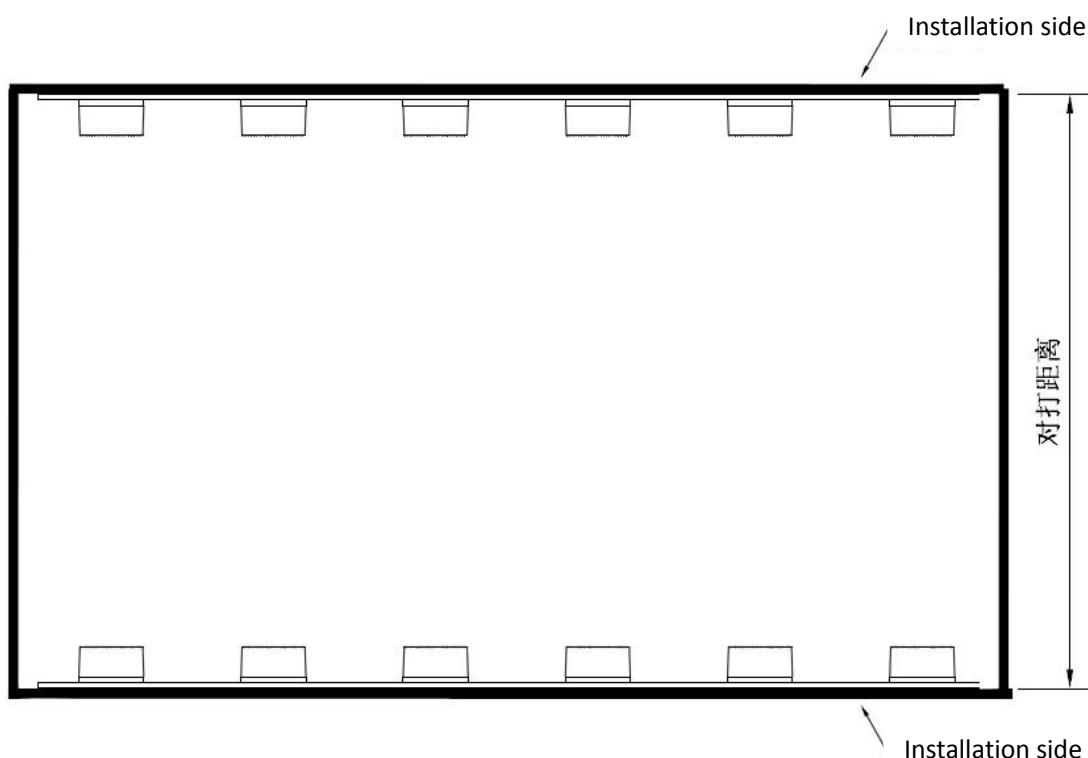
Red wire: +

Red wire: +

Layout Data:

P/N	Light Box Type	Light ing Way	Light Transmissi on Material	Light box depth (mm)	Space between two unit (m)	Installatio n density (PCS/m²)	Power of every unit (W/m²)	Surface illuminance range (lux)	Even ness
Z9120QA	Doubl e side light box	Doub le side lighti ng	light box white soft film	80	1	2	72	2175-3361	0.79
				100	1	2	72	2922-3721	0.88
				100	1.5	1.33	48	1919-3112	0.75
				180	1	2	72	2566-3117	0.91

Note: The installation density is base on 1 m² light box.



❶ Installation density, refers to the total amount of product on the installation side

❷ Space between two unit refers to the layout data.

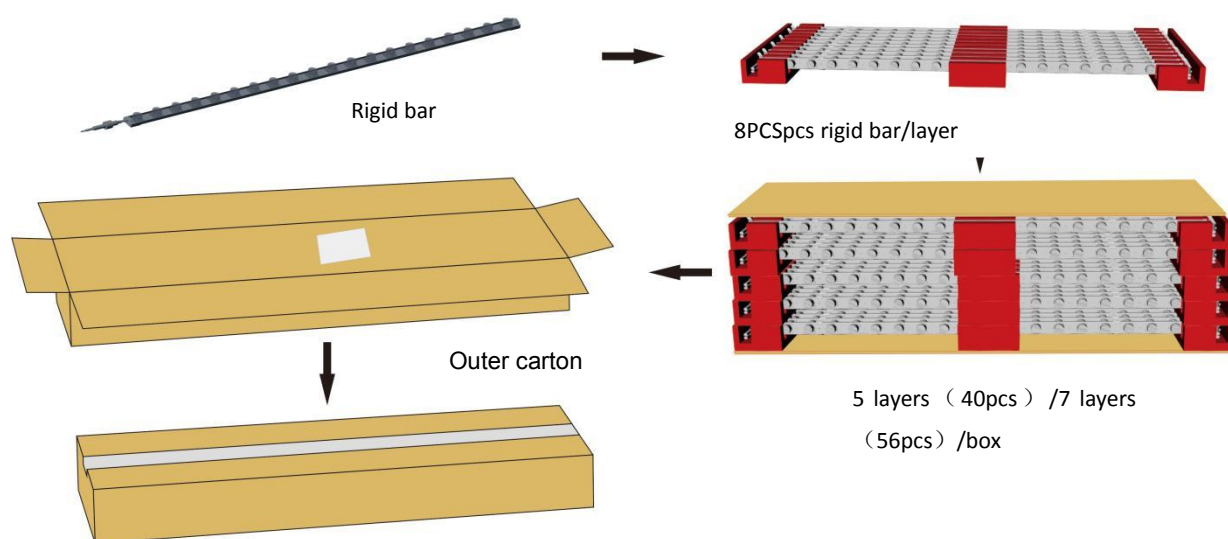
Packaging Information:

P/N	Qty (pcs/layer)	Qty (pcs/carton)	Total Qty (pcs)	Total weight(kg)	Outer carton(mm)		
					length	Width	Height
Z9110QA	8	7	56	10.4	570	264	280
Z9120QA	8	5	40	13.3	1070	264	216

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 samples.

Packaging Diagram:

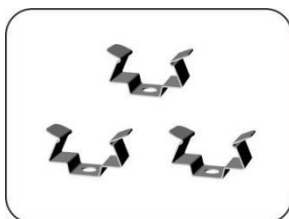


Accessories&Tools:

Accessories



LED rigid bar



Snap fit

Self-provided Tools

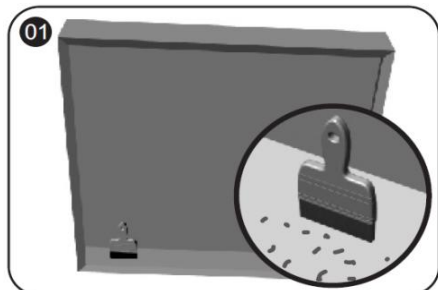


Electrical Drill & Drilling bit

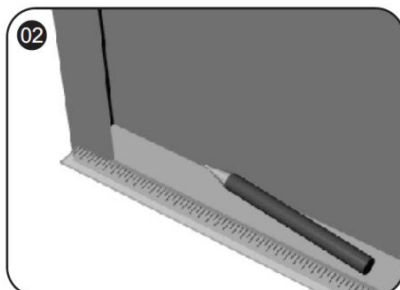


Screw (st2.9*8)

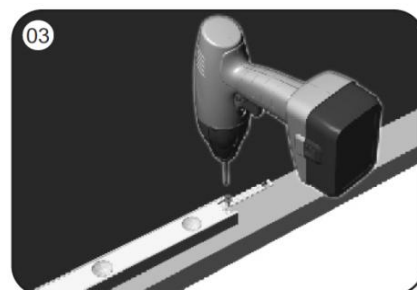
Installation Steps:



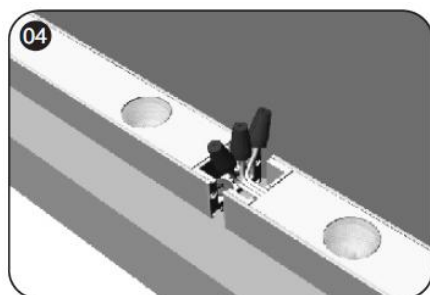
01 Clean the installing surface



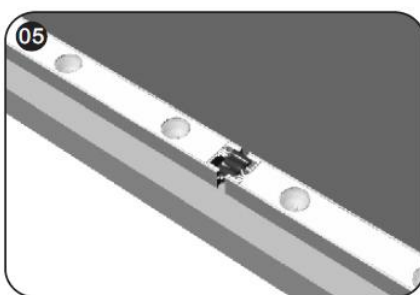
02 Mark the installing position and quantity.



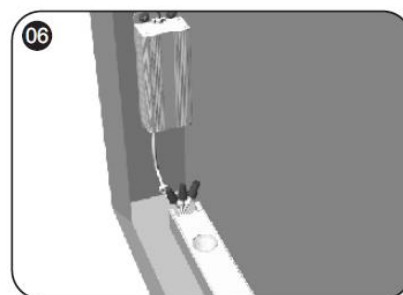
03 Fix the led rigid by screw.



04 Connect the rigid bar to rigid bar by terminals.



05 Place the terminals and wires in the gaps between products.



06 Connect the wires of rigid bar with those of power supply correctly, and dispose the joints and the end of lead wires with waterproof, insulation, short-circuit and anti-corrosion protection.

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.
- <End>

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Website



WeChat Account



