

Specification

Prepared	Checked	Approved

Accepted	Confirmed	Approved

CE

RoHS

3030
SMD

1
LED

Injection
Lens

DC
12V

IP
20

5
Years

RiSHANG • High-end LED Signage Lighting

Model: ☉ M941QB

1pcs 3030 SMD LED, 83.3*24*8,2mm clear shell, equipped with optical device, PVC injection, constant current, 12Vdc

Figure:



Features:

- ☉ 3030 SMD LED with low attenuation and long life;
- ☉ Standard cascading qty up to 60pcs;
- ☉ Beam angle: 160° ;
- ☉ Can be cut between every unit;
- ☉ CE, RoHS, compliant.

Applications:

- ☉ Suitable for 3~10cm depth light box.

Warranty:

- ☉ 5 years or 22,000 hours, whichever comes first.

Optical and Electrical Parameters:

P/N	LED	CT (K)	CRI	SDCM	Beam		lm	lm/W	V DC	mA	W/piece
	Color	WL (nm)			Angle	(°)					
M941QB	White	4500	95	--	160°		57.8	77.2	12	60	0.72
M941QB	White	4500	75	--	160°		70.8	95.0	12	60	0.72

Others:

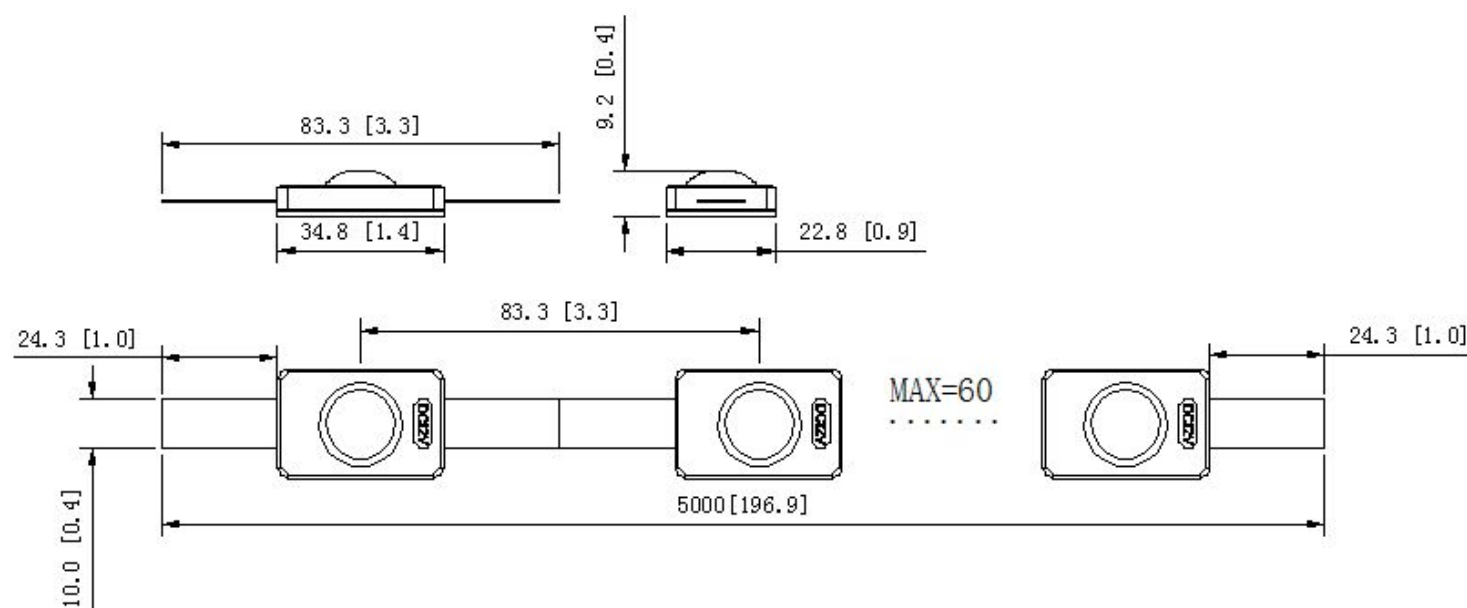
P/N	IP Grade	Operating Temp (°C)	Storage Temp (°C)	Standard cascading qty (pcs)	Single-ended max. cascading qty (pcs)	Double-ended max. cascading qty (pcs)	Weight (g/piece)
M941QB	IP20	-25~+60	-25~+70	60	60	120	6.2

Notes:

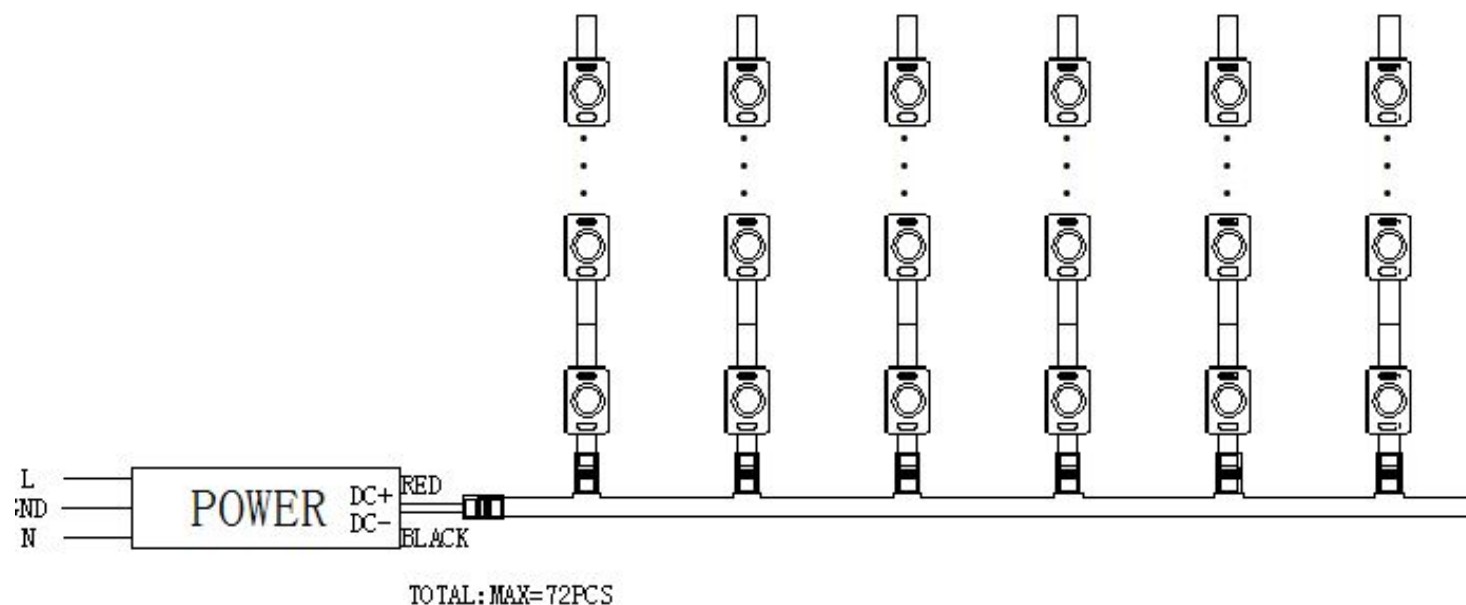
- ① Testing environment temperature: 25±2℃ [77±3.6°F];
- ② The actual data of each single product may differ from above typical data which are subject to change without prior notice;
- ③ The above “--” means the parameters are not required temporarily.

Profile Drawings:

Unit: mm 【inch】

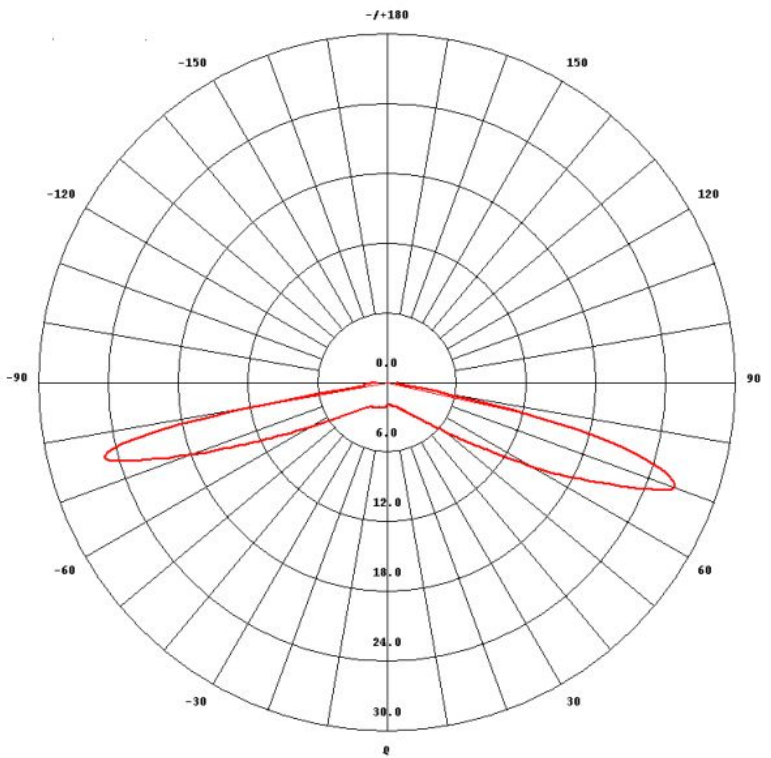


Connection Instruction:



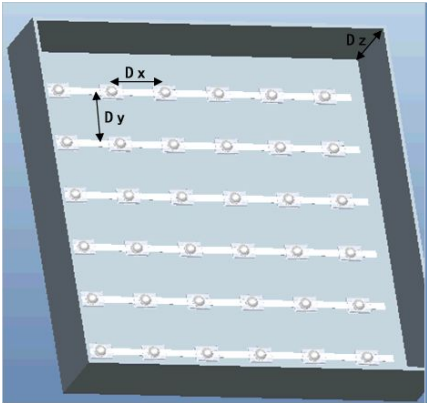
Note : "+" Red wire, "-" Black wire.

Light Distribution Curve:



Layout Data:

Light box depth (mm)	Space between every unit (mm)	Installing density (PCS)	Surface average illuminance (lux)
Dz=30	Dx=83.3 Dy=65	36	3500~4800
Dz=60	Dx=83.3 Dy=83.3	36	2500~3700
Dz=100	Dx=83.3 Dy=300	36	1000~1500

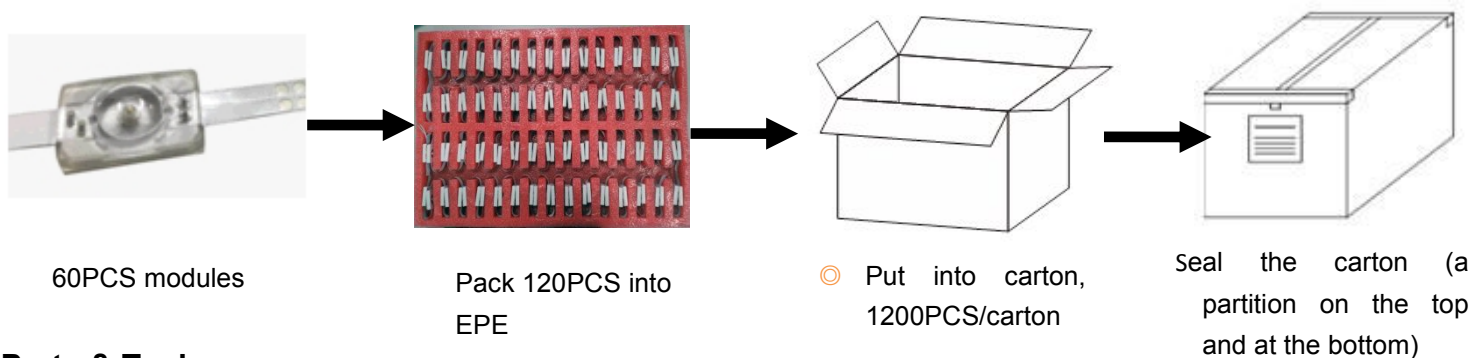


- Notes:
- (1) The above data is tested from the modules with color temperature of 6500K;
 (2) The above light box uses acrylic white board with 3mm depth and 54.4% light transmittance;
 (3) The above illuminance is the average value tested on the even surface;
 (4) The above data is only for reference.

Packaging Information:

P/N	Qty	Qty	Total Qty (PCS)	Total weight (Kg)	Outer carton size (mm)		
					length	width	height
	(PCS/pallet)	(pallet/carton)					
M941QB	120	10	1200	10kg	512	380	370

Packaging Diagram:



Parts & Tools:

Product Spare Parts

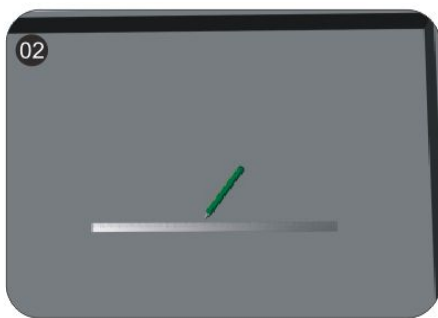


Module

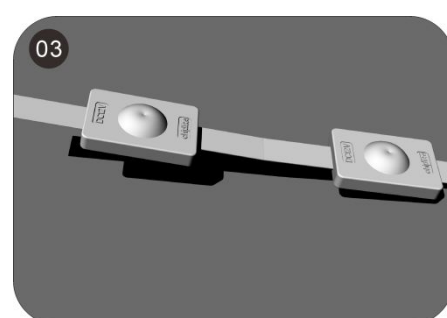
Installation Steps:



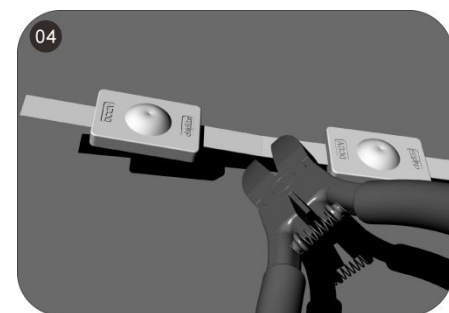
- Clean the mounting surface



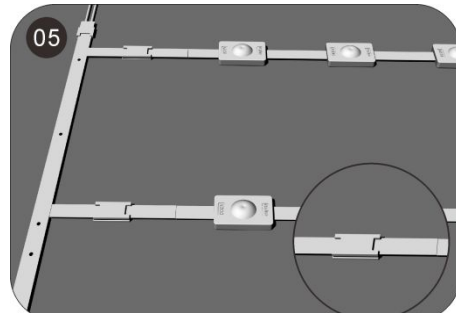
- Determine the installing position for modules and the needed qty. Make sure to install it in the middle



- After peeling off the double-sided tape on the back side of the module, adjust it to the optimum position, press it to fully glue it to its mounting surface, and strengthen the fixing with neutral adhesive.

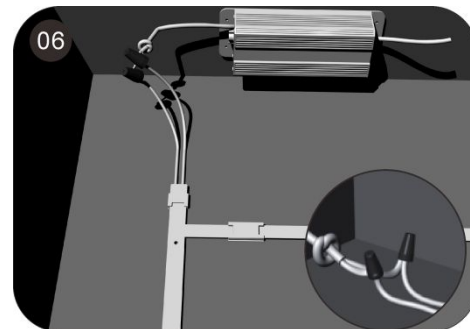


- Cut off the modules to the needed qty according to the size of light box.



- Connect the modules with snap-fit joints and "T" cables.

△Note: Pay attention to the "T" cable's current-carrying capacity. Don't use it with overload. See detailed quantity in Connection Instruction!



- Please ensure that the "+" & "-" of the wires of modules are connected with those of power supply output correctly, and dispose with waterproof, insulation, anti-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 module 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 module wires have malfunction.	
	3. Particular module 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 modules is within $\pm 5\%V$ of rated voltage. (1. Shorten the length of wires between the first module 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 module cascading qty is well-balanced.)
	3. Exceed in qty of modules in series.	Lessen the cascading qty for module 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.

Rishang Optoelectronics Co., Ltd (stock code: 002654)

Add: Block 2, Hongfa jiateli High-Tech. Park Tangtou Ave., Shiyan, Bao'an Shenzhen

Tell: +86-755-36988588 E-mail: info@ledlamps.com.cn

Website: www.ledlamps.com.cn


Website



Official Account

