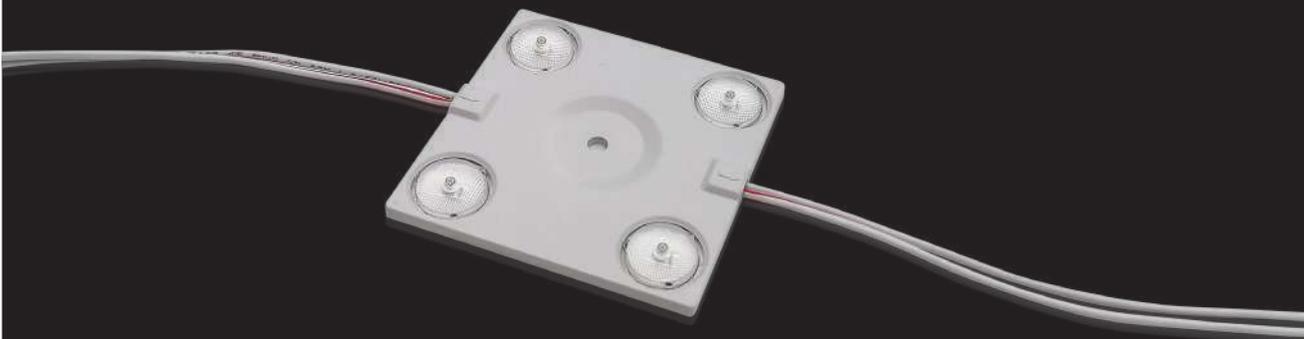
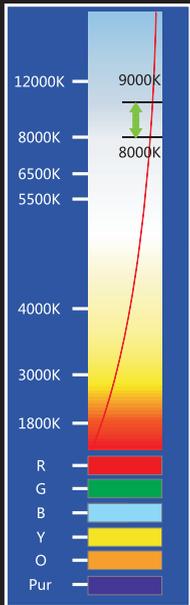


## SQUARE LED MODULE M8-B



### Features

1. Only 4PCS/ m<sup>2</sup> needed for 12-15 deep light box
2. Only 16W/ m<sup>2</sup> , ultra cost effective
3. Self designed lens with 170°beam angle for uniform light
4. Single module cuttable
5. Easy mounting, save labor cost

### Application

Suitable for 3.5-15cm depth advertising light box, soft film ceiling and ceiling light box, also for background wall and irregular light box.

### Installation

Fix by screws

## Specification

Model No.	Color Temperature(K)	Beam Angle	Typical Luminous Flux value(lm/pcs)	Ra	Efficacy (lm/W)	Voltage (V DC)	Power (W/pcs)
M8-B	8000-9000	170°	388	70+	97	12	4

## Other Parameters

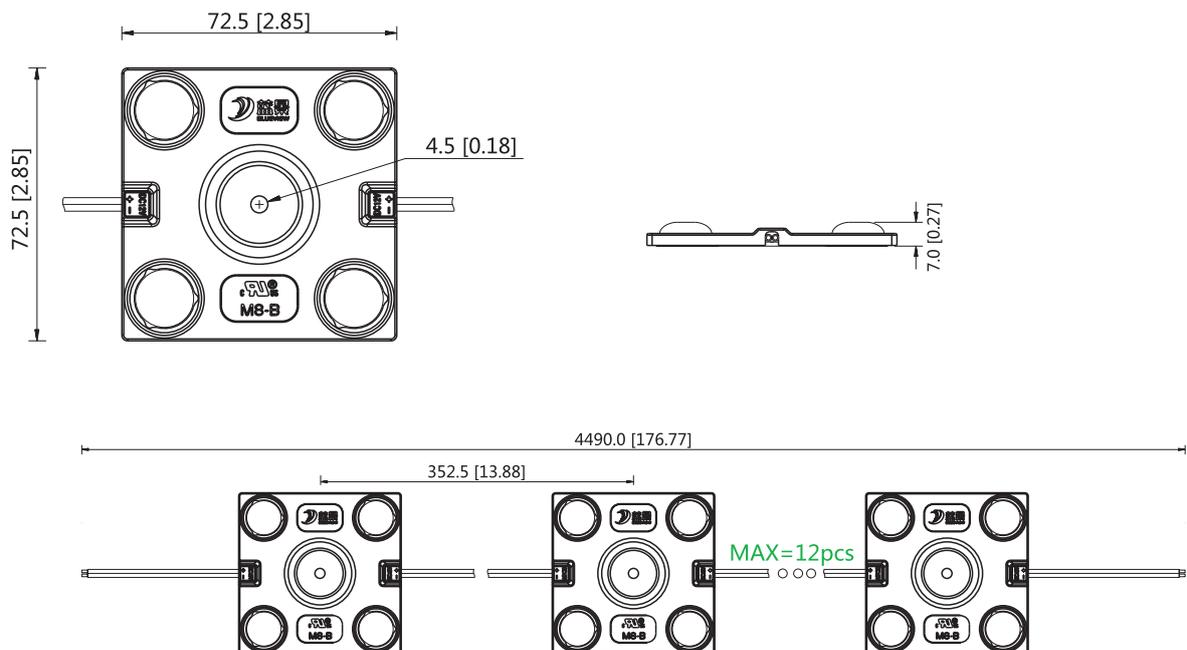
Model No.	LED Qty/pc	Product Size L*W*H(mm)	Standard Packing Quantity(pcs)	Max Run (Single Feed)(pcs)	Working Temperature	Storage Temperature
M8-B	4	72.5X72.5X7.0	12	12	-20~+60°C	-20~+70°C

### NOTE:

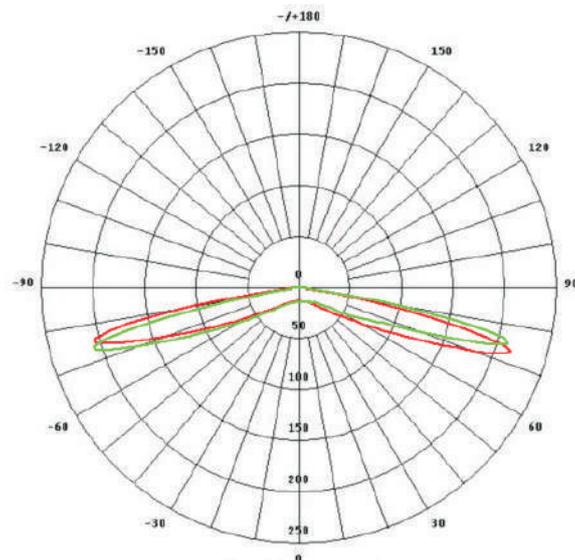
1. Test environment temperature : 25±2°C.
2. The above data is typical values. The actual data of each single product may differ from the typical values. The data is subject to change without notice.
3. The luminous flux is tested with single light on.
4. Different color temperature will make luminous flux different.
5. Power tolerance within ±10%.

## Profile Drawings

Unit:mm



## Luminous Intensity Distribution Diagram



Unit: cd

— C0 /180,171.7°

— C90/270,°

AVERAGE BEAM ANGLE(50%): 169.7°

## Average Illumination

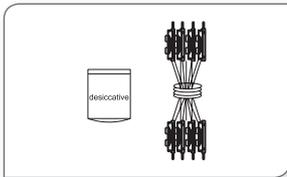
Flux Out: 375.6lm (CCT=8000-9000K)

Height	Eavg, Emax	Beam Angle: 171.1°	Diameter
2cm	1461,367081 lx		51.38cm
4cm	365.4,91771 lx		102.76cm
6cm	162.4,40791 lx		154.13cm
8cm	91.34,22941 lx		205.51cm
10cm	58.46,14681 lx		256.89cm
12cm	40.60,10201lx		308.27cm
14cm	29.83,749.1lx		359.64cm
16cm	22.83,573.61 lx		411.02cm
18cm	18.04,453.2 lx		462.40cm
20cm	14.61,367.11lx		513.78cm

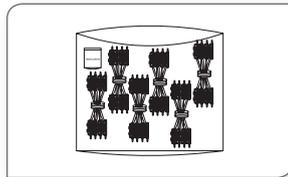
M8-B

**Note:** Note: The above two figures are tested with M8-B at 8000-9000K.

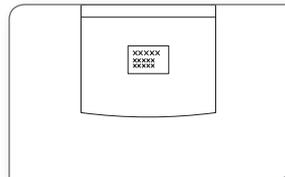
packing



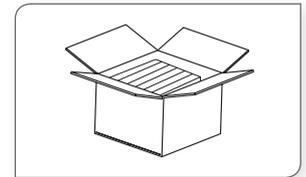
Prepare the desiccant and bind the product.



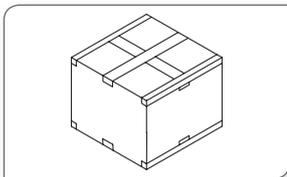
Put the product and desiccant into static shielding bag.



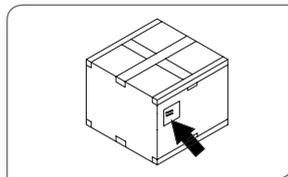
shielding bag.



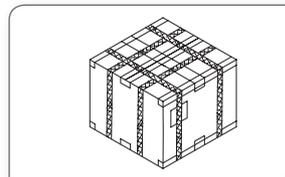
Put the static shielding bag side by side into carton box.



Seal the box.



Label the box;



Use packing belt to pack after adding the edge protectors.

**Packaging information**

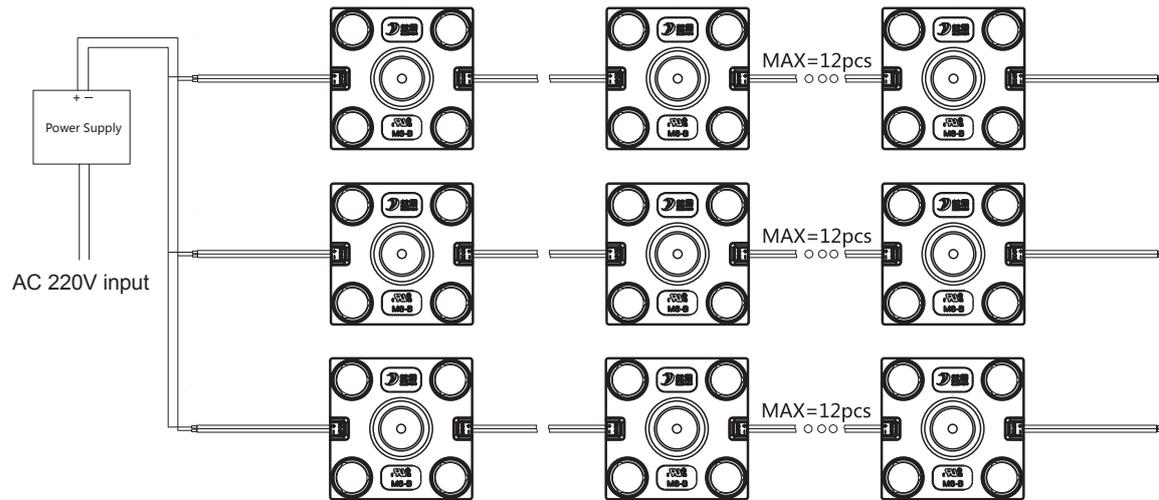
Model No.	Product Size L*W(mm)	Carton Size(mm)	PCS/Bag	Bag/Carton Box	Net Weight(kg)	Gross Weight(kg)
M8-B	72.5X72.5X7.0	570X375X285	24	20	15.25(1±10%)	17.05(1±10%)

**Note:**

The above quantity and weight are only for the illustrated packaging method. There will be differences in the quantity and weight with other packaging methods.

## Installation

### 1.Connection Diagram

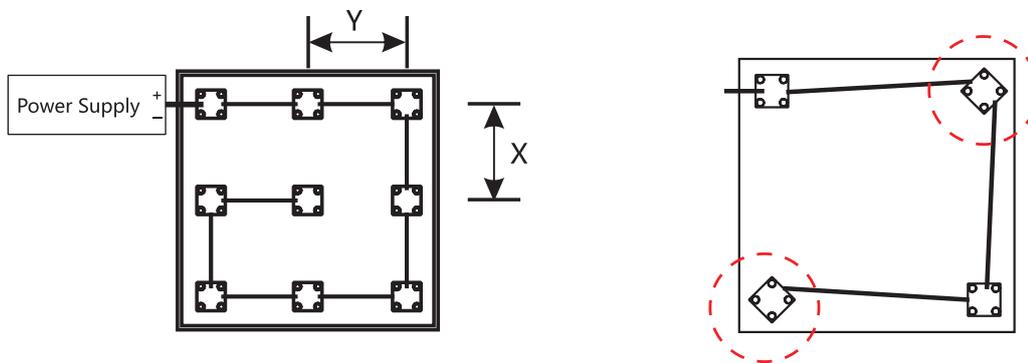


### 2.Installation Reference

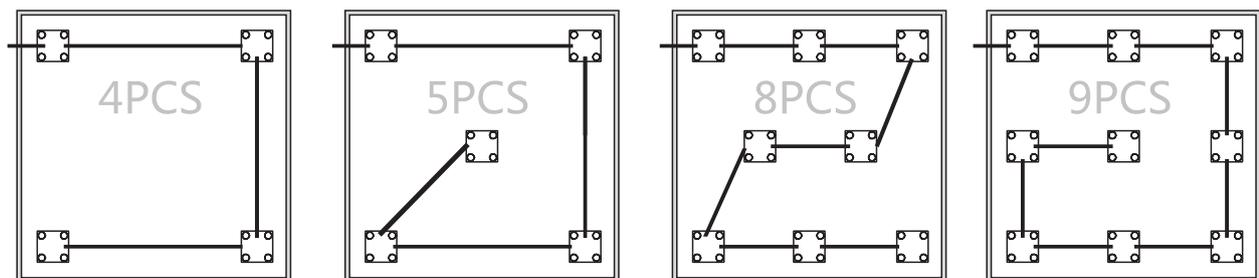
Model No	Surface Material	Depth(H) cm	Illumination (lux)	Evenness	Density (pcs/ m <sup>2</sup> )	Spacing (X*Y)	Power Density (W/ m <sup>2</sup> )	Visual Effects
M8-B	White Soft Film	3.5	11950-13360	0.89	7*7	14*14	196	OK
		4	11950-13360	0.93	5*5	18*18	100	OK
		5	11950-13360	0.90	4*4	22*22	64	OK
		6	11950-13360	0.91	4*4	22*22	64	OK
		8	11950-13360	0.73	3*3	33*33	36	OK
		10	11950-13360	0.95	3*2	33*45	24	OK
		12	11950-13360	0.82	2*2	45*45	16	OK
		15	11950-13360	0.85	2*2	45*45	16	OK

**Note:**

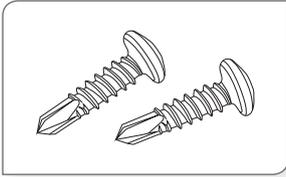
1. X indicates the horizontal center spacing between modules;
2. Y indicates the longitudinal center spacing between modules;
3. Single LED modules are arranged in a square,  $X=Y$ .
4. When the depth of lightbox  $H > 12\text{cm}$ , use more products to satisfy Illumination demand
5. Please ask the sales for other data.
6. Customized wire length available.
7. The above data is for common demand , you can increase the density for actual demand.
8. The module rotates around the center point does not change use effect, see the figure below.



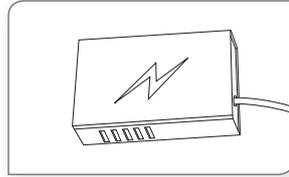
**Common Arrangements**



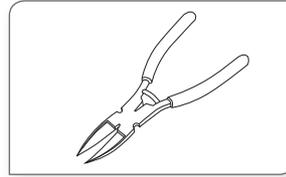
## 2. Accessories & Tools



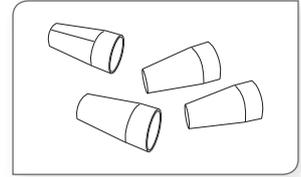
Screw(M4)



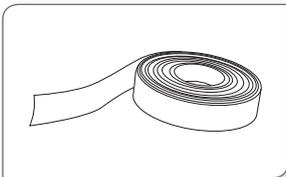
LED power supply



Diagonal pliers

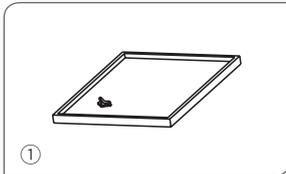


Connection terminal

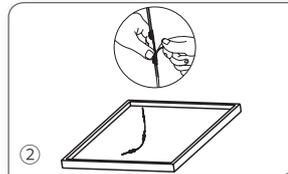


Insulation tape

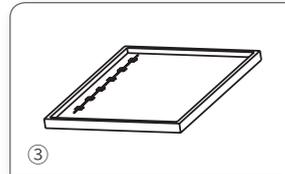
## 3. Installation steps



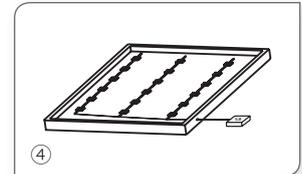
①



②



③



④

1. Clean the mounting surface free of dust and debris.
2. Peel away the self adhesive tape on the back of product and mount it onto the lightbox bottom.
3. Prefix the product and make sure it is flat and evenly arranged in light box.
4. Fix the product with screws and check and ensure correct wiring, then power on for self-test.

## Attention before installation

1. Before installation, check that the product parameters are consistent with the requirements (Seeing product specifications or product labels)
2. Load voltage, current, power and power supply should be matched with the product.
3. Follow the instructions of wiring diagram (first connect the load and then the power supply) to avoid short circuit.
4. Make sure the correct connection of positive and negative poles between products and power supply. Otherwise, the light will not be on.
5. Make sure the power cord firmly screwed into the terminal and it should not be pulled out by hands.
6. The terminal should have insulation, waterproof and anti-corrosive treatment.

## Common Faults and Troubleshoot

Quick Guide		
Problems	Reasons	Solutions
All LEDs can not light on.	No electric supply.	Power on
	Automatic power protection from the open or short circuit in output of the power supply.	Fix the short circuit problem.
	Wrong connection of power supply.	
LEDs can not light on partly.	Some switching mode power supplies are not powered.	Check the power supply system to fix it.
	Power supply line error.	
	Mistaken wire connection of some of products	Correctly connection
Brightness of LED is inconsistent or insufficient.	Power overloaded.	Replace with more powerful power
	Power supply circuit excessive consumption.	Make sure the working voltage of the product within $\pm 5\%$ of standard voltage, or keep balance by circuit power consumption.
	Excessive quantities in series connection of the product	Reduce the quantities of the product in series connection to meet requirement.
LED flicker.	Connection point fault.	Remove bad connection point.
	Switching power supply failure.	Replace a new power supply.
	Wrong Installation or use of products	Please follow the instructions

### Warning

- Do not disassemble or retrofit the light. Do not touch the surface of the light with a sharp object.
- Do not do live-line working during installation, especially for high voltage product.
- Do not use any organic chemical solvents.
- Use neutral glass adhesive to fix this product and it needs to be dried 4 hours in the open environment after operation.
- Treat the ends and the circuit connection points that are not connected to the main line with insulation, waterproof, and anti-corrosion in the installation.
- Use 18AWG (0.75mm<sup>2</sup> cross-sectional area) or thicker core wire to avoid adverse consequences caused by overheating, if the power cable need to lengthen.
- Make sure the input voltage meets the requirements and lines are connected correctly before lighting on.
- This product is for signage, and do not use as general lighting.
- Series connection within the max run.
- The length of the power cable between the power supply and the led strip should not exceed 2 meters. Otherwise, large circuit loss will lead to inconsistent brightness.
- Installation, maintenance and repair should be operated by a qualified technician.

## Statements and Recycling

### Statements:

Repair should be operated by a qualified technician, if the external circuit or main line of this product is damaged.  
The parameters given in this manual are typical values and for reference only.  
All illustrations and drawings in this manual are for reference.  
This product is subject to change without notice.

### Recycling:

LED lighting products belongs to electronic products, please do recycling treatment according to the relevant WEEE directives.