

Version: C1.2

Features

- Large beam angle;
- Superior weather and UV resistance;
- External controller can be connected to realize rich color changes;
- Single module cuttable, support customization;

Application

- Suitable for 8-20cm depth light box, advertising letters, subway, supermarket, bus station, shopping mall, etc;

Installation

- Fix by adhesive tape or screws

Optical & Electrical Parameters

Model No.	Light Color	CCT/Color Available (K/nm)	Beam Angle	Typical Luminous Flux value (lm/pcs)	Efficacy (lm/W)	Ra	Voltage (DC)	Power (W/pcs)
BC6-S1	R	620-625	170°	11	16	--	24V	0.69
	G	492-577		27	39			0.69
	B	440-475		7	10			0.69
	RGB	--		44	29			1.55



Other Parameters

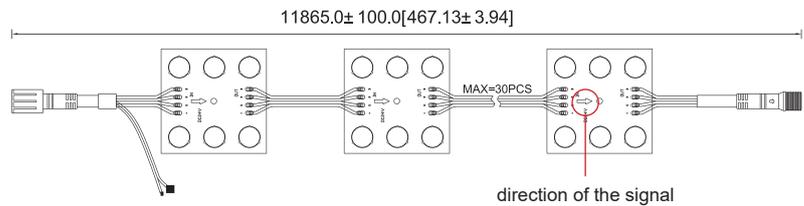
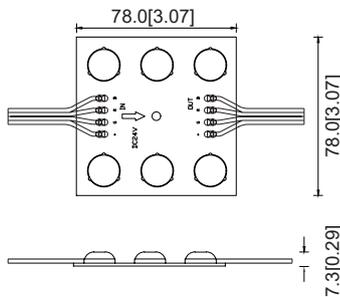
Model No.	LED Quantity	Product Size L*W*H	Standard Run	Max Run	Working Temperature	Storage Temperature
BC6-S1	6 LED Qty/pc	78*78*7.3mm	30pcs	30pcs	-20~+60°C	-20~+70°C

NOTE:

- Test environment temperature : 25±2°C.
- Figures above are typical figures. Actual figures could be different with typical figures, and the data is subject to change without notice.
- Different color temperature will make luminous flux different.
- Power tolerance within ±10%.
- The "Quantity" above means the LED quantity of single module.
- Max run is in single feed.

Profile Drawings

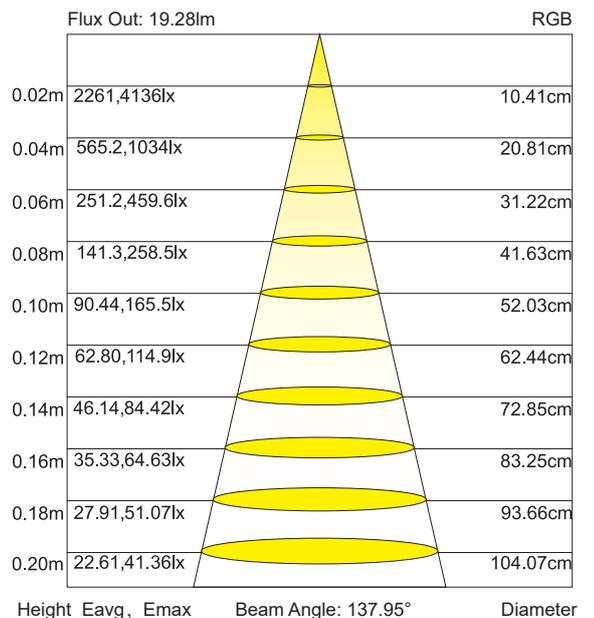
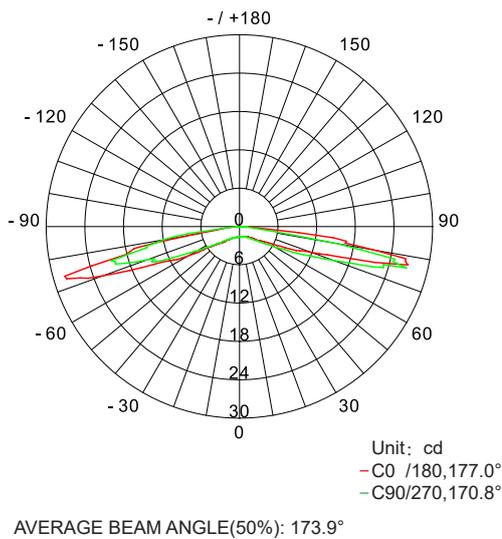
Unit:mm[inch]



Note:
Dimension tolerance: length±0.2mm[0.008inch],
width±0.2mm[0.008inch],thickness±0.2mm[0.008inch];

Luminous Intensity Distribution Diagram

Average Illumination



Note:
the above two figures are tested with the sample BC6-S1-RGB, for other data, please consult sale rep.



Reliability Test

Type	Test Item	Standard	Condition	Result
Environmental test	PTC test	Blueview standard	Test temperature: -40°C— 60°C,2h one cycle(holding time: 15 minutes,heating and cooling: 45 minutes)	Pass
	High temperature resistance test		TH=60/80°C, stay powered on	
	Room temperature aging test		Ta=25°C, stay powered on	

packing



1. Prepare the desiccant and bind the product.
2. Put the product and desiccant into static shielding bag.
3. Seal and label the static shielding bag.
4. Put the static shielding bag side by side into carton box.
5. Seal the box.
6. Label the box;
7. Use packing belt to pack after adding the edge protectors.

Packaging information

Model No.	Product Size L*W*H(mm)	Carton Size(mm)	PCS/Bag	Bag/Carton Box	Net Weight(kg)	Gross Weight(kg)
BC6-S1	78*78*7.3	390*390*325	10	10	14.85(1±10%)	16.25(1±10%)

Note:
Packing materials: static shielding bag and carton box.
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

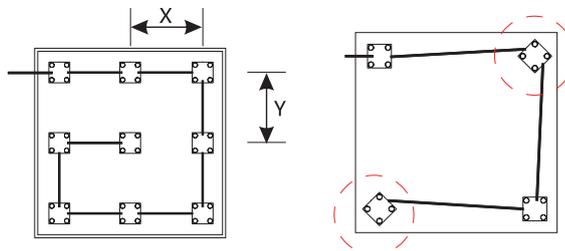
Installation Reference

Model No	Surface Material	Depth (H)	Illumination (lux)	Evenness	Density (pcs/m ²)	Spacing (X*Y)	Power Density (W/m ²)	Visual Effects
BC6-S1-RGB	White Soft Film	8cm	838-998	0.84	6*6	16*16cm	47	OK
		10cm	587-675	0.87	5*5	20*20cm	33	
		12cm	473-532	0.89	5*5	20*20cm	33	
		15cm	368-404	0.91	5*5	20*20cm	33	
		18cm	293-318	0.92	5*5	20*20cm	33	
		20cm	265-285	0.93	5*5	20*20cm	33	

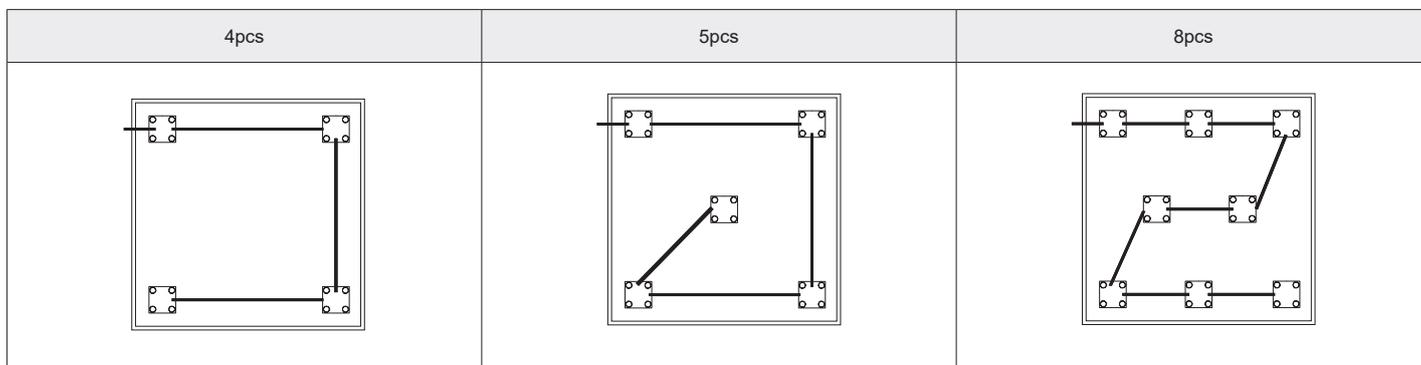


Note:

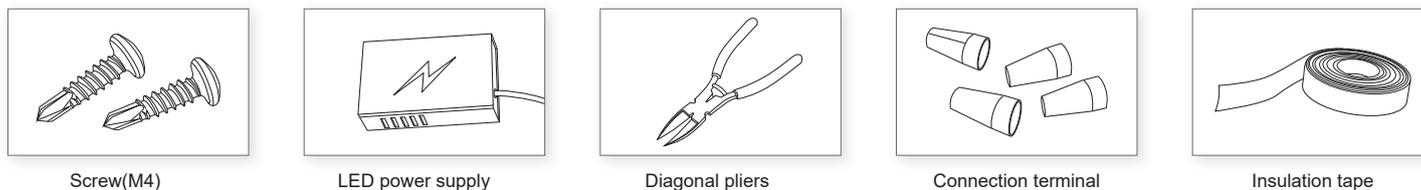
- X indicates the horizontal center spacing between modules;
- Y indicates the longitudinal center spacing between modules;
- Single LED modules are arranged in a square, X=Y.
- When the depth of lightbox H>15cm, use more products to satisfy illumination demand
- For other data, Please consult sales rep.
- Customized wire length available.
- The above data is for common demand , you can increase the density for actual demand.
- The module rotates around the center point does not change use effect, see the figure below.



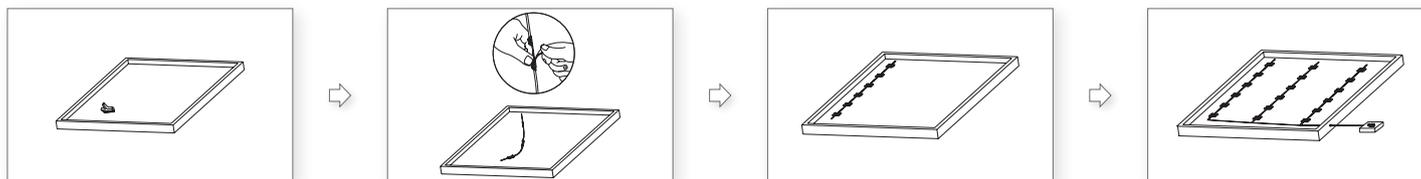
Common Arrangements



Accessories & Tools



Installation steps



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.



Attentions before installation

- Before installation, check that the product parameters are consistent with the requirements (Seeing product specifications or product labels)
- Load voltage, current, power and power supply should be matched with the product.
- Follow the instructions of wiring diagram (first connect the load and then the power supply) to avoid short circuit.
- Make sure the correct connection of positive and negative poles between products and power supply. Otherwise, the light will not be on.
- Make sure the power cord firmly screwed into the terminal and it should not be pulled out by hands.
- 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.	Fix the short circuit problem.
	Automatic power protection from the open or short circuit in output of the power supply.	
	Wrong connection of power supply.	
LEDs can not light on partly.	Some switching mode power supplies are not powered.	Correctly connection.
	Power supply line error.	
	Mistaken wire connection of some of products	
Brightness of LED is inconsistent tor 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 24 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 (0.75mm² 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.