Version: **A1.4**

Features

1. Adopted diffusion lens;
2. Reduced the installation quantity and density;
3. Fully sealed by glue, super weather resistance;
4. High cost performance;

Application

Suitable for 8-18cm depth light box and advertising letters, etc.

Installation

Fix by adhesive tape or screws



Specification

Model No.	Light Color	Color Temperature(K)	Beam Angle	Typical Luminous Flux value(lm/pcs)	Ra	Efficacy (lm/W)	Voltage (V DC)	Power (W/pcs)
ST2-J-2	W	2800-3200	160°	46	80+	96	12	0.48
		3800-4200		45		94		
		6000-6500		47		97		
		7000-8000		46		96		
		8000-10000		46		96		
		15000-20000		44		92		
	R	620-625	160°	17	/	24	12	0.72
	G	520-525		34		70		0.48
	B	460-465		7		15		0.48
	Y	570-575		53		110		0.48
ST2-J-3	W	2800-3200	160°	69	80+	96	12	0.72
		3800-4200		67		94		
		6000-6500		70		98		
		7000-8000		69		96		
		8000-10000		69		96		
		15000-20000		66		92		
	R	620-625	160°	27	/	37	12	0.72
	G	520-525		52		73		
	B	460-465		11		15		
	Y	570-575		80		110		

Other Parameters

Model No.	Quantity (LED Qty/pc)	Product Size L*W*H(mm)	Standard Run (pcs)	Max Run(single feed) (pcs)	Working Temperature	Storage Temperature
ST2-J-2	2	47*11*5.1	20	20	-20~+60℃	-20~+70℃
ST2-J-3	3	68*11*5.1				

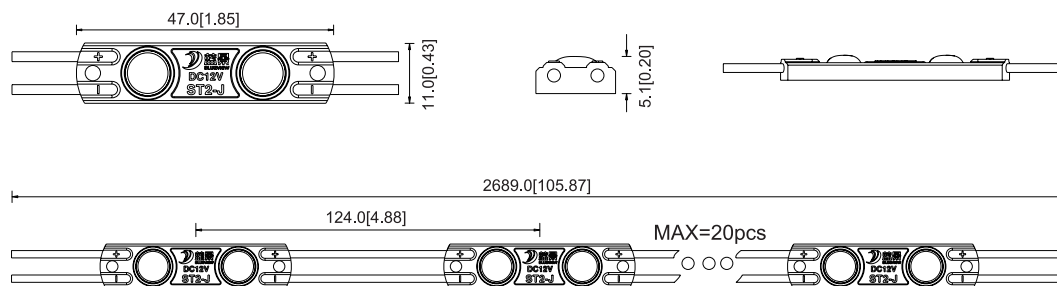
NOTE:

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

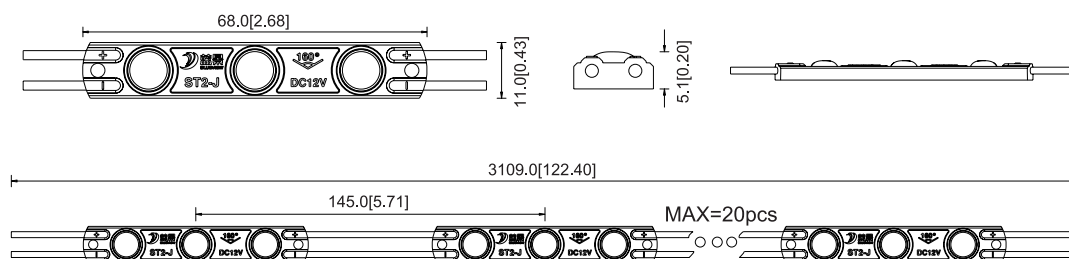
Profile Drawings

Unit:mm[inch]

ST2-J-2



ST2-J-3

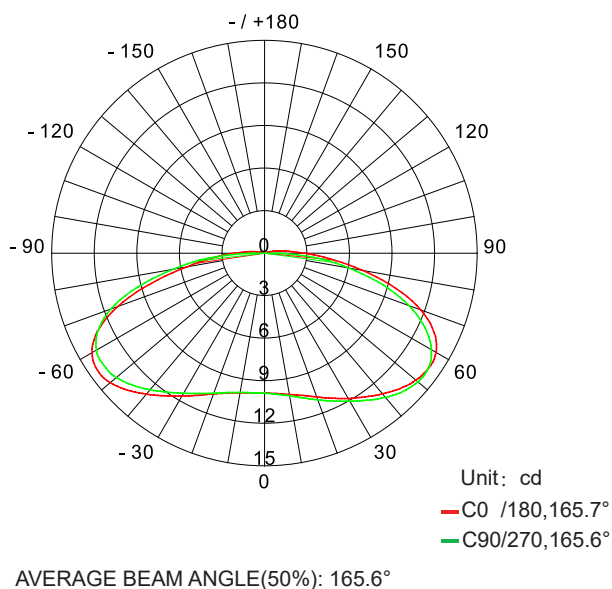


Note: For detail drawing, please consult sale rep.

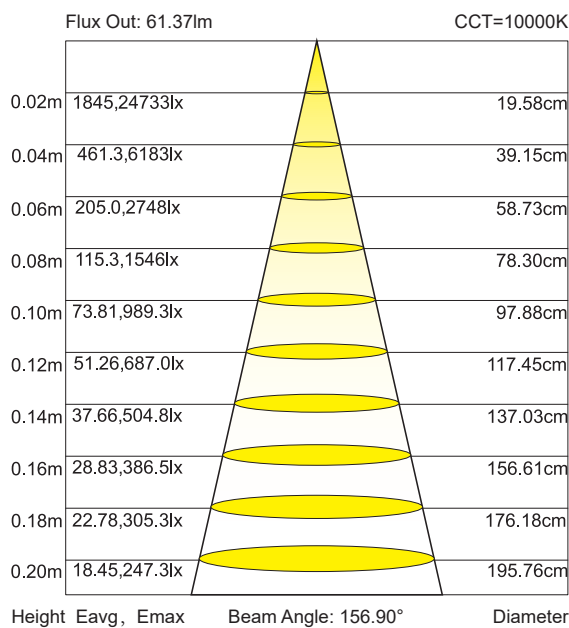
Reliability Test

Type	Name	Standard	Condition	Result
Environmental test	Waterproof test	IEC60529	Water pressure 0.02MPa, water 0.75m3/h, water spray caliber 6.3mm, T -3min	Pass
	PTC test	Blueview standard	TH=-40°C— 60°C, 2h one cycle(constant temperature: 15 minutes, heating and cooling: 45 minutes)	
	High temperature testing		TH=60/80°C, continuous power on	
	Aging Test		Ta=25°C, continuous power on	
	Anti-UV test		TH=50°C, UVB:315~400nm	
Other tests	Flame retardant test	Blueview standard	Burn the sample with a lighter within 10s. Release the ignition button, and the flame on the sample extinguished immediately.	

Luminous Intensity Distribution Diagram

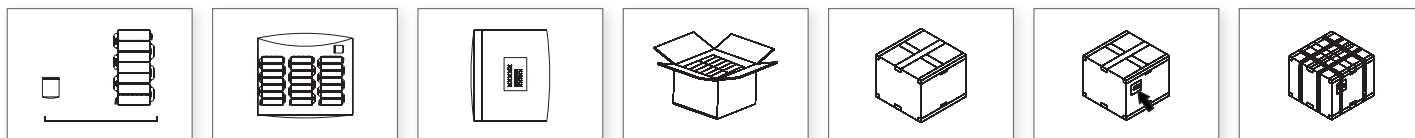


Average Illumination



Note: the above two figures are tested with the sample ST2-J-3, for other data, please consult sales rep.

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.

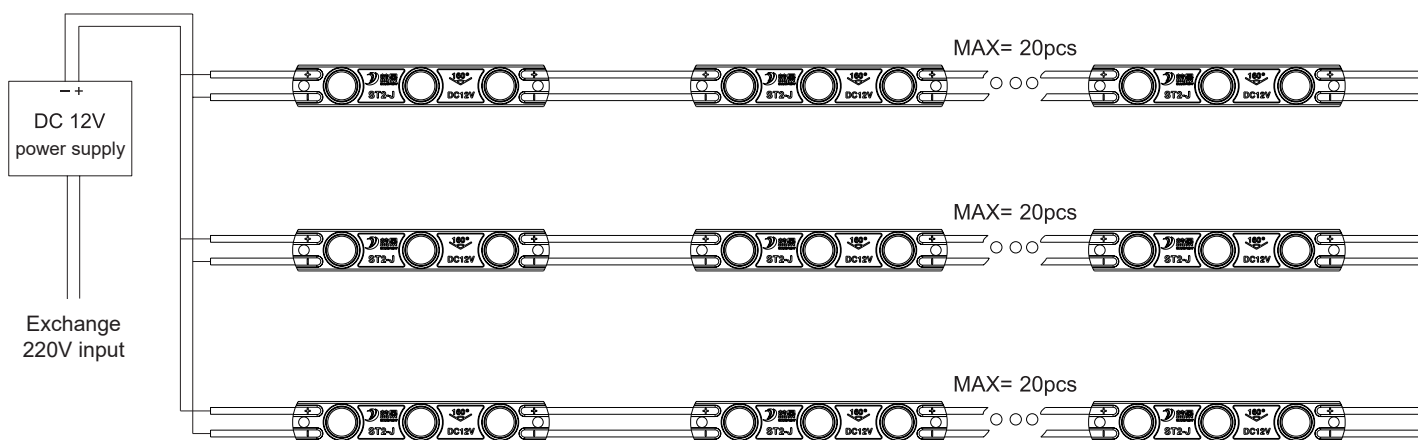
Packaging information

Model No.	Product Size L*W*H (mm)	Carton Size(mm)	PCS/Bag	Bag/Carton Box	Net Weight(kg)	Gross Weight(kg)
ST2-J-2	47*11*5.1	390*390*325	200	20	15.50(1±10%)	16.50(1±10%)
ST2-J-3	68*11*5.1		200	15	16.50(1±10%)	17.50(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.

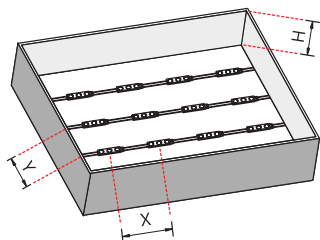
Installation



Installation Reference

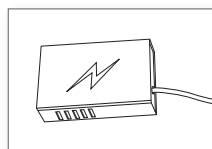
Model No	Surface Material	Depth(H)cm	Illumination (lux)	Evenness	Density (pcs/m ²)	Spacing (X*Y)cm	Power Density (W/m ²)	Visual Effects
ST2-J-3	White Soft Film	8	2640-3090	0.85	10*10	10*10	72	OK
		10	1800-2110	0.85	8*8	12*12	46	
		12	1348-1589	0.85	7*7	14*14	35	
		15	1404-1578	0.89	8*8	12*12	46	
		18	1410-1549	0.91	10*10	10*10	72	

Note:

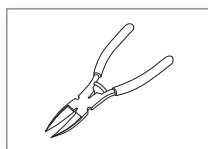


1. X indicates the horizontal center spacing between modules;
2. Y indicates the longitudinal center spacing between modules;
3. Single LED modules are arranged in a square, X=Y.
4. When the depth of lightbox H>18cm, use more products to satisfy Illumination demand
5. For other data, Please consult sales rep.
6. Customized wire length available.
7. The above data is for common demand , you can increase the density for actual demand.

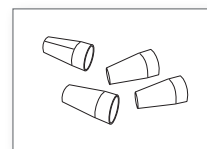
Accessories & Tools



LED power supply

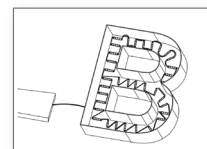
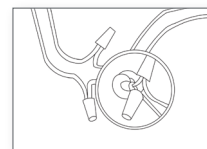
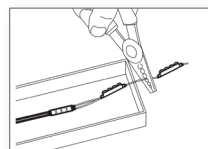
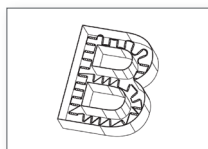
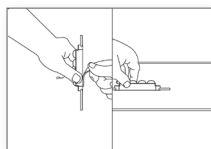
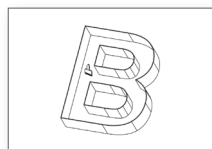


Self-tapping screw



Connection Terminals

Installation steps



1. Clean the mounting surface.
2. Peel away the release paper on the back of led modules and stick them onto mounting surface.
3. Evenly arrange the led modules with appropriate space.
4. With insulation and waterproof arrangement.
Note: Cut in the middle of the wire.
5. If the product needs to be connected, it is better to fix with connection ends.
Note: Treat the wire with insulation, waterproof, and anti-corrosion arrangement as it cannot pull out by hands.
6. Make sure the correct connection of positive and negative poles between led module and power supply.
Note: Treat the wire with insulation, waterproof, and anti-corrosion arrangement as it cannot pull out by hands.



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.
- After installation, the fabric light box must be covered with cloth within 48 hours. Please avoid leaving the light box idle for a long time.

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.