

Features

- Adopt high quality 2835 LED
- High efficacy up to 112lm/W
- No frame glue filling,excellent waterproof performance(IP68)
- Diffuse reflection optical processing
- Self-designed integrated LED lens

Application

Suitable for signage lighting with thickness of 4-18cm,advertising light box and sign letters etc.

Installation

Fix by adhesive tape or 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)
BTH-3	6000-6500	180°	134	70+	112	12	1.2

Other Parameters

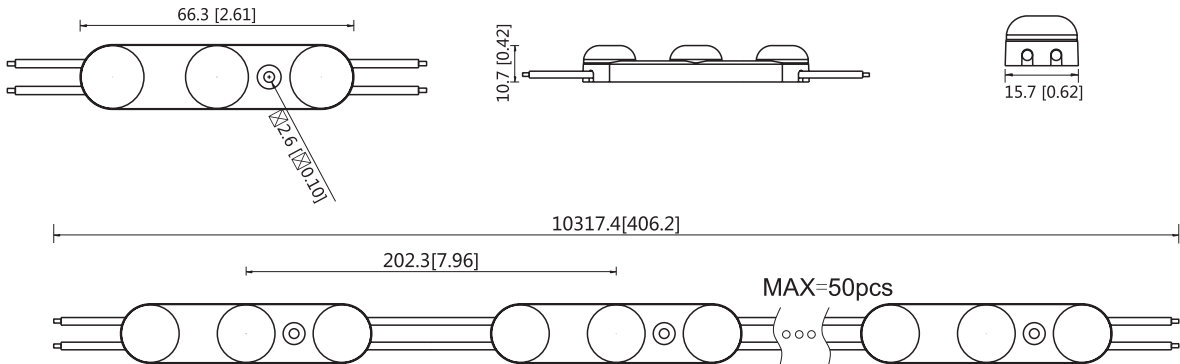
Model No.	LED Qty/pc	Product Size L*W*H(mm)	Standard Packing Quantity(pcs)	Max Run (Single Feed)(pcs)	Working Temperature	Storage Temperature
BTH-3	3	66.3X15.7X10.7	50	50	-20~+60°C	-20~+70°C

NOTE:

1. Test environment temperature : 25±2°C.
2. The luminous flux and power tolerance within ±10%.
3. 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.
4. The luminous flux is tested with single color on.
5. Different color temperature will make luminous flux different.

Profile Drawings

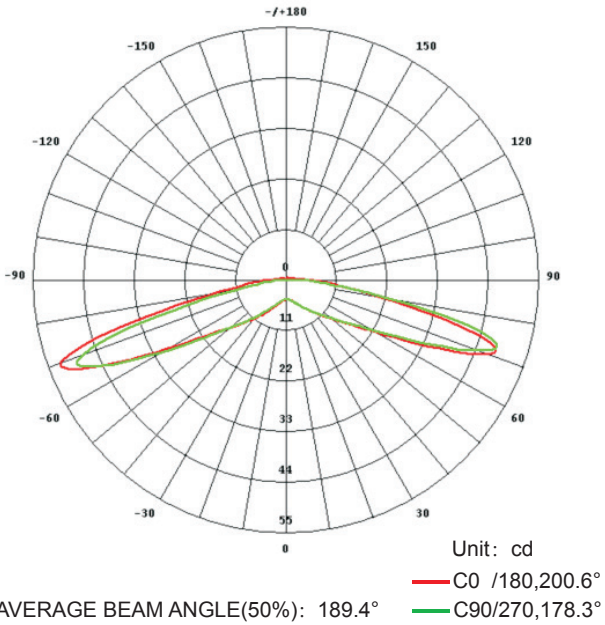
Unit:mm



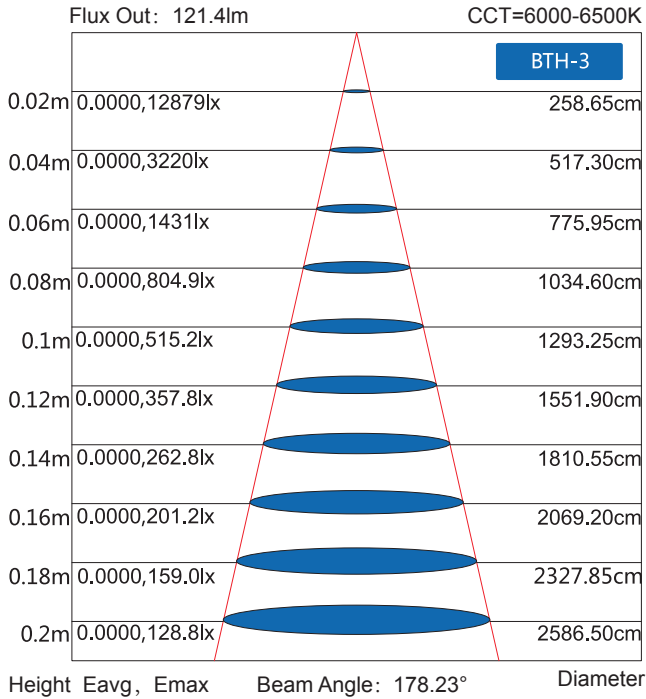
Note: Please ask the sales for detail drawing.



Luminous Intensity Distribution Diagram



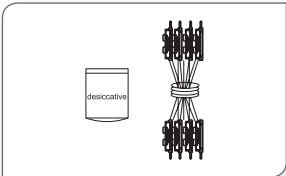
Average Illumination



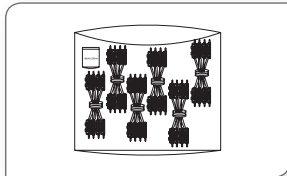
Note: the above two figures are tested at 6000-6500k, please contact sales for other data.



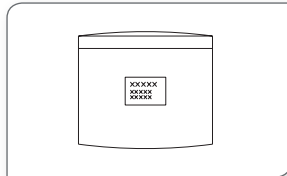
packing



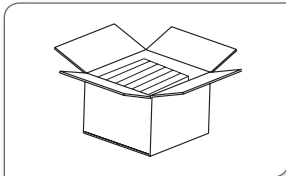
Prepare the desiccant and bind the product.



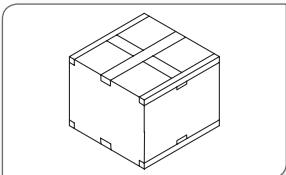
Put the product and desiccant into static shielding bag.



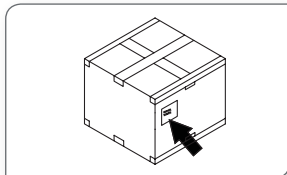
Seal and label the static shielding bag.



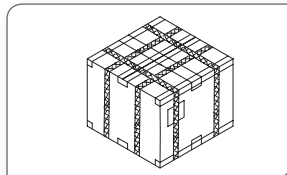
Put the static shielding bag side by side into carton box.



Seal the box.



Label the box;



Use packing belt to pack after adding the edge protectors.

Packaging information

Model No.	Product Size L*W*H(mm)	Carton Size(mm)	PCS/Bag	Bag/Carton Box	Net Weight(kg)	Gross Weight(kg)
BTH-3	66.3*15.7*10.7	390*390*325	50	20	15.32(1±10%)	16.75(1±10%)

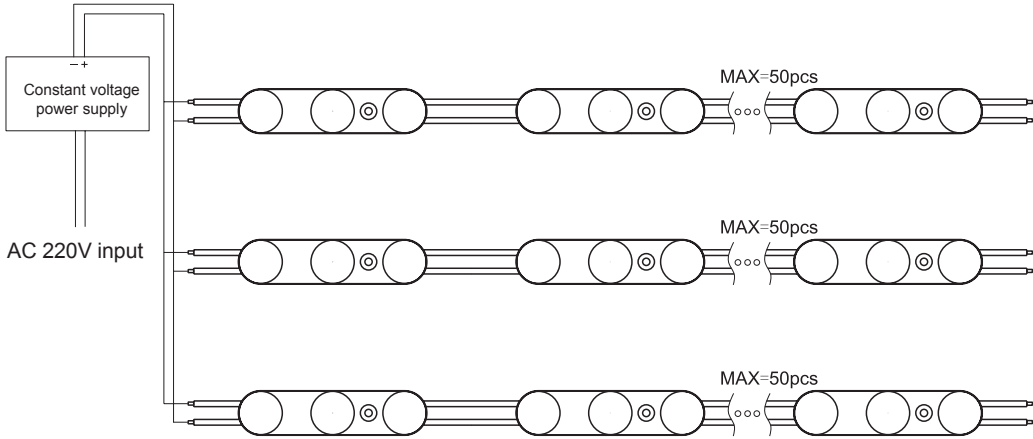
Note:

1. Packing materials: static shielding bag and carton box.
2. 30PCS per string, 4 strings for one static shielding bag.
3. 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.



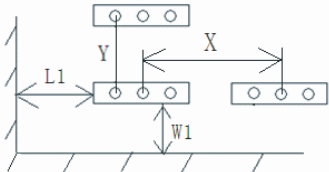
Installation

1.Connection Diagram



2.Installation Reference

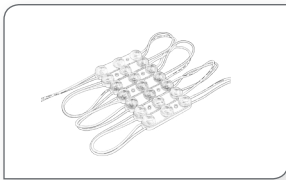
Model No	Surface Material	Light Box Bottom	Depth(H)cm	Illumination (lux)	Density (pcs/m ²)	Spacing (X*Y)cm	Visual Effects
BTH-3	White Soft Film	White	4	14360-15550	12x12	8X8	OK
			5	12850-13890	12x12	8X8	
			6	7500-8120	8x9	12X10	
			8	4730-5080	7x7	14X14	
			10	3080-3250	5x6	20X16	
			12	1820-2050	5x4	20X25	
			15	1755-1895	5x4	20X25	
18	1290-1460	5x3	20X30				



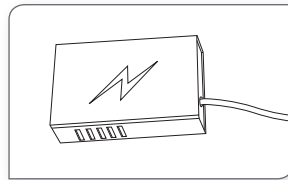
- Note:**
1. X indicates the horizontal center spacing between modules;
 2. Y indicates the longitudinal center spacing between modules;
 3. Single LED modules are arranged in a square, X=Y.
 4. When the depth of lightbox H>12cm, use more products to satisfy illumination demand.
 5. Please ask the sales for other data.



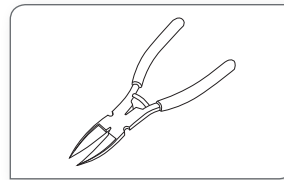
2. Accessories & Tools



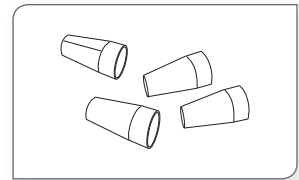
BTH-3



LED power supply

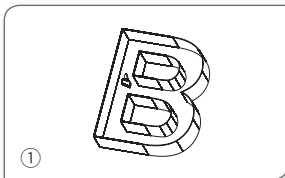


Diagonal Pliers

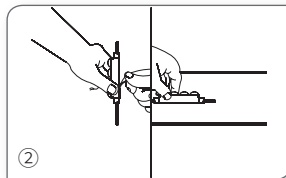


Connection Terminals

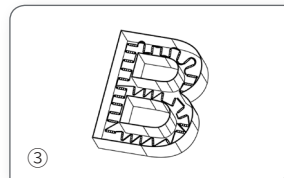
3. Installation steps



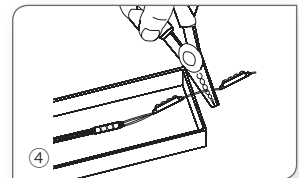
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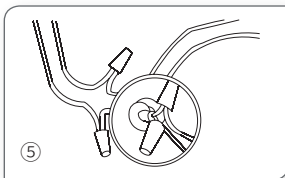
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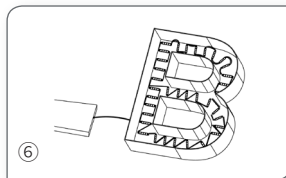
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- 1.Clean the mounting surface.
- 2.Peel away the release paper on the back of led modules and stick them onto mounting surface.
- 3.Evenly arrange the led modules with appropriate space.
- 4.Cut the modules according to the requirements and treat the cut place 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 thread 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 thread 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.

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 for 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 (0.75mm² 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.