



Version: A1.3

Features

1. Self-designed secondary optical lens for uniform light.
2. Aluminum PCB for direct and quick heat dissipation.
3. Curtain style for easy mounting.
4. Exclusive designed clips for easy installing.
5. Multi specifications, support customization.

Application

Suitable for lightbox with depth more than 4cm, signage lighting, etc.

Installation

Fix by screws

Specification

Model No.	Light Color	Color Temperature(K)	Beam Angle	Typical Luminous Flux value(lm/pcs)	CRI	Efficacy (lm/W)	Voltage (V DC)	Power (W/pcs)
H3 2.0-4807	W	3000-9000	170°	764	80+	130	12	5.88
H3 2.0-9313				1420			12	10.92
H3 2.0-9312				1310			24	10.08

Other Parameters

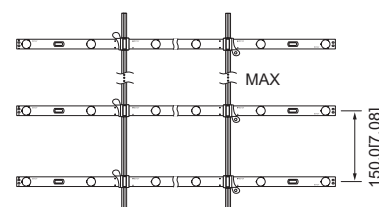
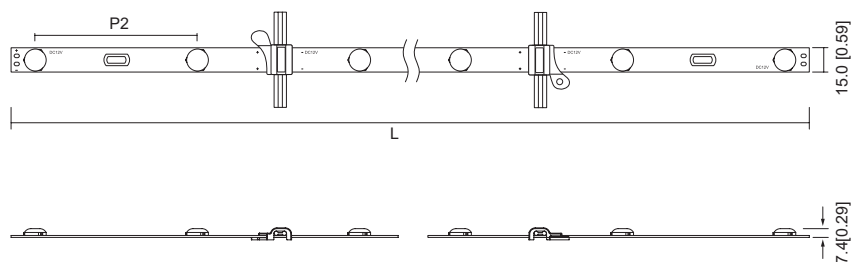
Model No.	Quantity (LED Qty/pc)	Product Size (mm)	Standard Run (pcs)	Max Run (pcs)	Working Temperature	Storage Temperature
H3 2.0-4807	7	480*15*7.4	10	15	-20~+60°C	-20~+70°C
H3 2.0-9313	13	930*15*7.4		10		
H3 2.0-9312	12	930*15*7.4		10		

NOTE:

1. Test environment temperature: 25±2°C.
2. If the lamp beads of different types are selected, the color temperature and luminous flux will be different, The data is subject to change without notice.
3. Different color temperature will make luminous flux different.
4. The Luminous flux&power tolerance within ±10%.
5. The max run is in double feed.

Profile Drawings

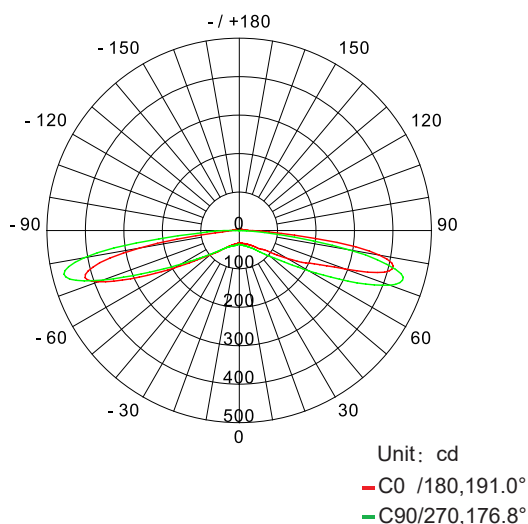
Unit:mm[inch]



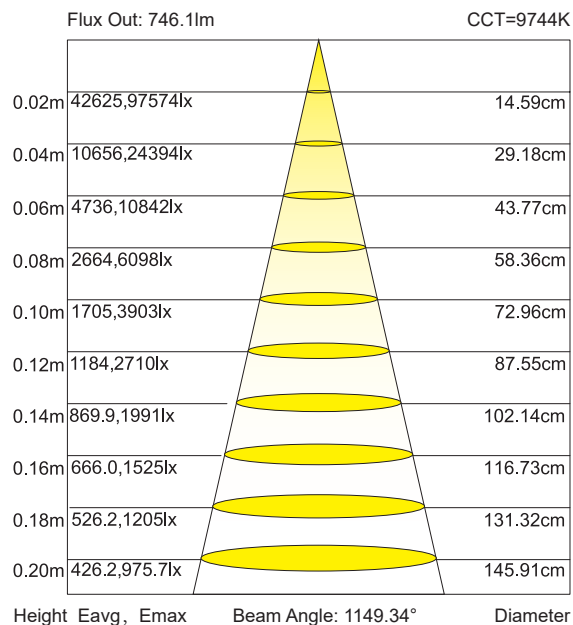
Note:
For detail drawing, please consult sale rep.
MAX means max run quantity.

Luminous Intensity Distribution Diagram

Average Illumination



AVERAGE BEAM ANGLE(50%): 183.9°

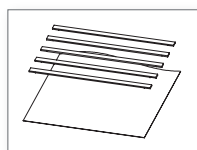


Note: the above two figures are tested with the sample H3 2.0-9313 at 9744K, please contact sales for other data.

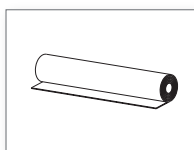
Reliability test

Project	Reference standards	Category	Test conditions	Outcome
Environmental test	Blueview standard	PTC test	TH=-40~+60°C/ 2h, dwell 15min, temperature rise/ down takes 45min.	Pass
		High temperature resistance test	Simulated TH=60 °C, continuously light on.	

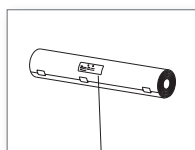
packing



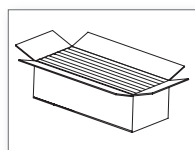
Place the products on the pearl foam



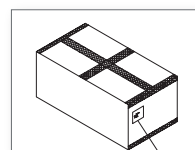
Wrap the pearl foam



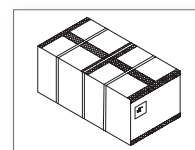
Seal both ends and stick a label



Put the product neatly into carton box.



Seal and label the box.



Use packing belt to pack. Add edge protectors if necessary.

Packaging information

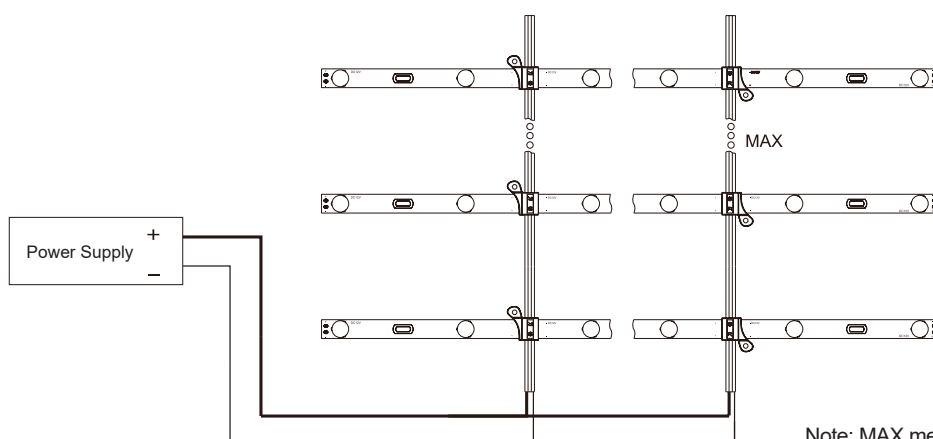
Model No.	Product Size L*W*H(mm)	Carton Size(mm)	In total(pcs)	Net Weight(kg)	Gross Weight(kg)
H3 2.0-4807	480*15*7.4	570*375*285	300	8.80(1±10%)	10.55(1±10%)
H3 2.0-9313	930*15*7.4	1175*295*180	150	9.15(1±10%)	11.28(1±10%)
H3 2.0-9312	930*15*7.4	1175*295*180	150	9.15(1±10%)	11.28(1±10%)

Note:

This product is wrapped and loaded with white pearl foam and packed in long carton;

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.

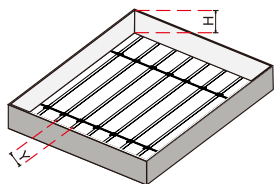
Installation



Note: MAX means standard run quantity

Installation Reference

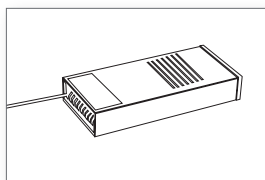
Model No.	Bottom Color of Lightbox	Surface Material	Depth(H) cm	Illumination (lux)	Density (pcs/m ²)	Spacing (Y)cm	Power Density (W/m ²)	Visual Effects
H3 2.0-9313	White	White Soft Film	4	9990-11920	12	8	132	OK
			5	6590-7840	8	12	88	
			6	4430-5350	5	20	55	
			8	4040-4750	5	20	55	
			10	3080-3670	4	25	44	
			12	2890-3370	4	25	44	
			15	2460-2830	4	25	44	
			18	2180-2480	4	25	44	



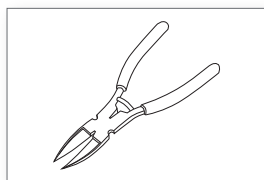
Note:

1. Spacing, see left;
2. Please contact the sales for other data if you need.

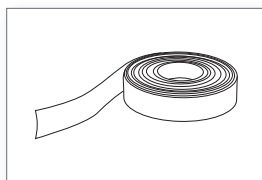
Products and Tools



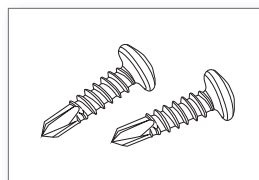
LED power supply



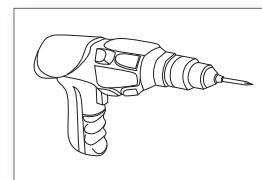
Diagonal pliers



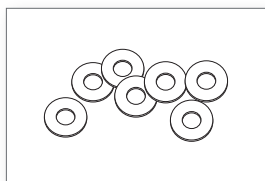
Insulation Tape



Screw

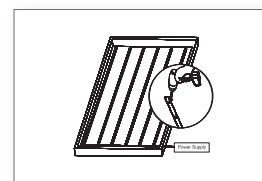
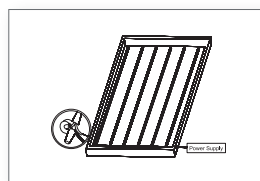
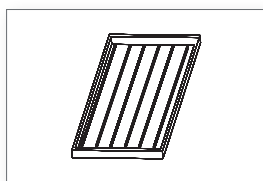
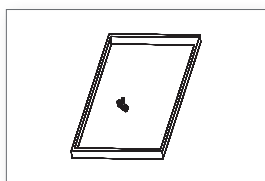


Electric drill



Mounting gasket

Installation Methods and Steps



1. Clean the mounting surface.
2. Arrange the mounting space.
3. For bare wire connection, please use terminals.
Treat the thread with insulation, waterproof, and anti-corrosion arrangement as it cannot pull out by hands.
4. Check and ensure correct installation, and fix the product with screws, then power on for self-test.

Note:

1. Screws should away from welding pads to avoid short circuits.
2. When fastening the screw, make sure to add plastic gaskets to separate the screw from the LED panel.

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.
- Please take and use the product gently to avoid damage.
- **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 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.
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