

Version: A1.7

Features

- Adopt special optical lens
- Waterproof IP67
- Adopt roller shutter style design and exclusive installation clip, which is easy for installation
- A variety of specifications are available
- Support PWM, 0-10V, DALI dimming

Application

- Suitable for 7cm depth lightbox, signage lighting

Installation

- Fixed by screw.

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)
FYD2-Y-4305	W	3000-12000	170°	378	80+	90	12/24	4.20
FYD2-Y-9310				756				8.40
FYD2-Y-9312				900				10.08
FYD2-Y-1212				900				10.08

Other Parameters

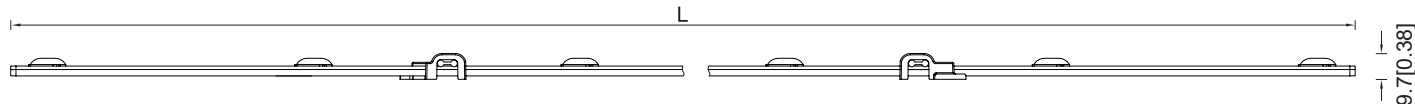
Model No.	LED Quantity/pc	Product Size L*W*H(mm)	Standard Packing Quantity(pcs)	Max Run (pcs)	Working Temperature	Storage Temperature
FYD2-Y-4305	5	430*17*9.7	10	15	-20~+60°C	-20~+60°C
FYD2-Y-9310	10	930*17*9.7	10	13		
FYD2-Y-9312	12	930*17*9.7	10	13		
FYD2-Y-1212	12	1130*17*9.7	8	10		

Notes:

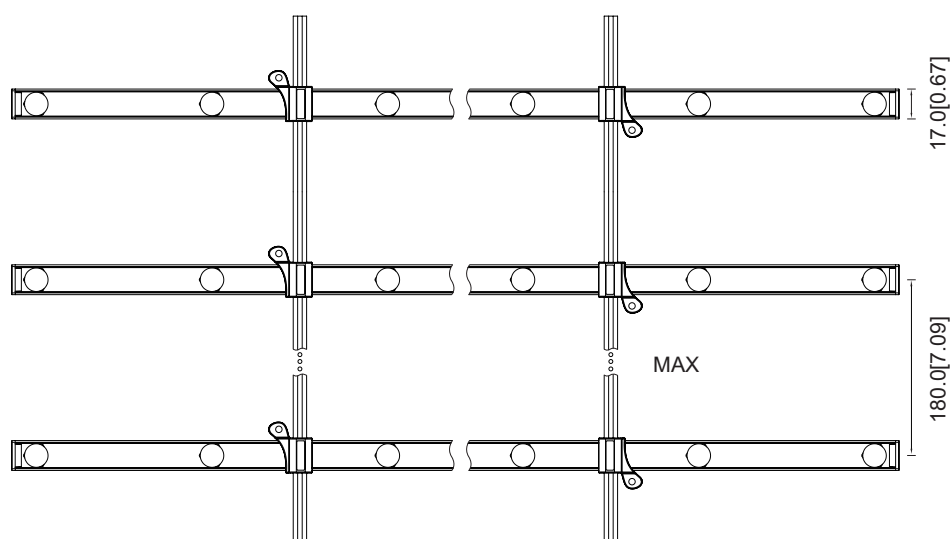
- Testing temperature: 25±2°C
- The above data are typical values. The actual data of each single product may differ from the typical values. The data is subject to change without notice.
- Luminous flux is tested when lighting on single color.
- Different color temperature will make luminous flux different
- Luminous flux & power tolerance within ±10%
- Max run is in double feeded.

Profile Drawings

Unit:mm[inch]



Dimension tolerance: length ±2mm; width ±0.2mm; height ±0.2mm.



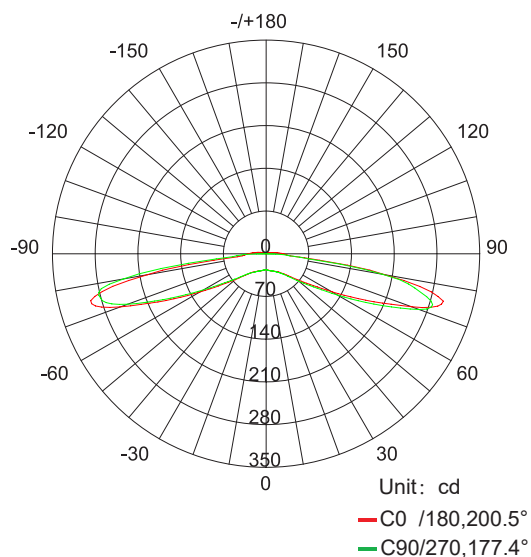
Notes:

MAX means max run quantity
For detailed drawing, please consult sales rep.



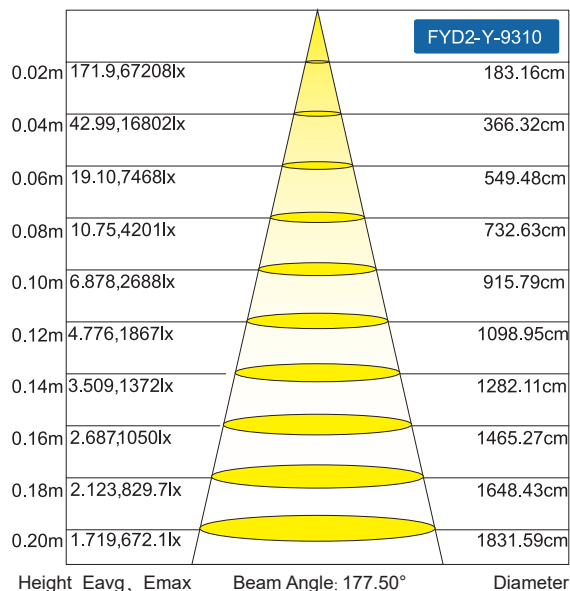
Luminous Intensity Distribution Diagram

Average Illumination



AVERAGE BEAM ANGLE(50%): 188.9°

Flux Out: 709.2lm (CCT=8492K)

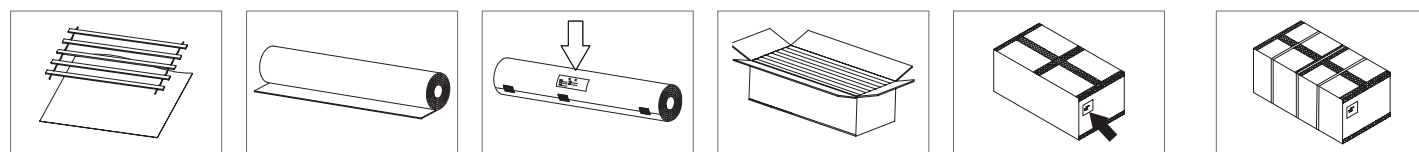


Note: the above two figures are obtained from the test of FYD2-Y-9310 at 8492k; If you need other information, please contact the sales rep

Reliability Test

Test Sort	Test item	Reference Standard	Test condition	Test result
Environmental test	PTC test	Blueview Standard	Th = - 40-60 °C / 2H cycle once (temperature holding time 15 min, heating and cooling time 45 min)	Pass
	high temperature resistant test		TH=60/80°C, continuous lightened up	Pass
	waterproof test		1m deep underwater / 1h	IP67

packing

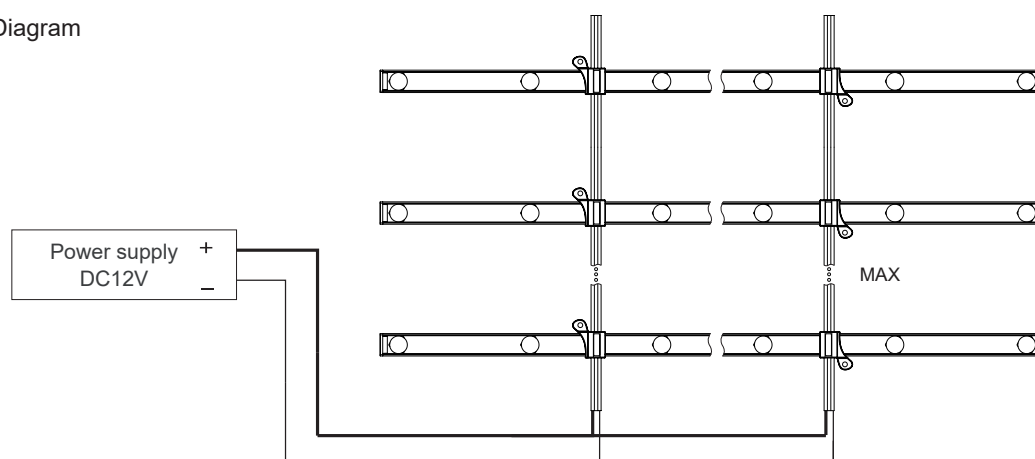


Put the product on the PE foam. Wrap it well. Seal and label it Put the products neatly into carton box. Seal and label the box. Use packing belt to pack. Add edge protectors if necessary.

Packaging information

Model No.	Product Size L*W*H(mm)	Carton Size(mm)	Total Quantity(pcs)	Net Weight(kg)	Gross Weight(kg)
FYD2-Y-4305	430*17*9.7	570*375*285	240	14.65(1±10%)	16.25(1±10%)
FYD2-Y-9310	930*17*9.7	1010*295*210	120	15.60(1±10%)	17.20(1±10%)
FYD2-Y-9312	930*17*9.7	1010*295*210	120	15.60(1±10%)	17.20(1±10%)
FYD2-Y-1212	1130*17*9.7	1175*295*180	100	15.80(1±10%)	17.50(1±10%)

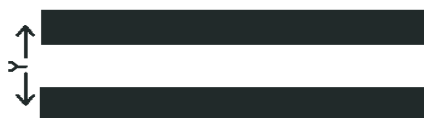
- Notes:
- Packing material: PE bag and carton box
 - The above quantity and weight are only for the illustrated packaging method. There will be differences in the quantity and weight with other packaging methods.

Installation
1.Connection Diagram


Note: the "MAX" here means the max connectable series

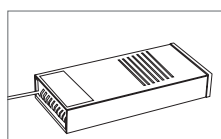
2.Installation Reference

Model No.	Bottom Color of Lightbox	Surface Material	Depth H(cm)	Illumination (Lux)	Density (pcs/m ²)	Spacing(Y) cm	Watt Density (W/m)	Visual Effects
FYD2-Y-9310	White	White Soft Film	7	5900-6950	12	8	101	OK
			8	4780-5540	10	10	84	
			10	3580-4200	8	12	67	
			12	2170-2550	5	20	42	
			15	1776-2000	4	25	34	

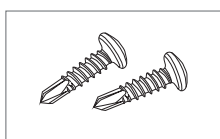


Note:
Bar spacing, see left picture
If you need other installation data, you can ask the sales staff

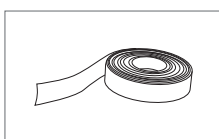
3.Products and Tools



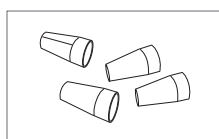
LED power supply



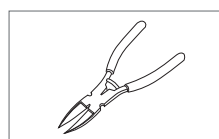
Self-tapping screw



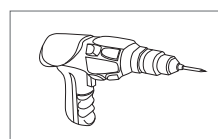
Insulation Tape



Connection terminal



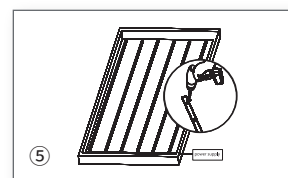
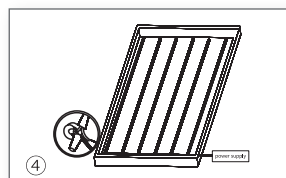
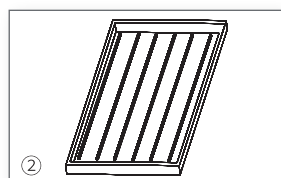
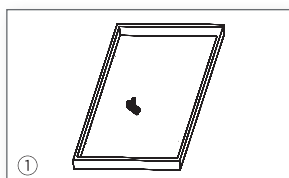
Diagonal pliers



Electric drill

4.Installation Methods and Steps

Method one: fix by double-sided foam tape and screws



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

Notes:

1. Screw to avoid welding plate, avoiding short circuit
2. When fastening the screw, make sure to add plastic gaskets to insulate 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.

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.