

## Features

- Adopt high quality 2835 LED.
- High efficacy up to 90lm/W.
- Self-designed secondary lens with 170°beam angle for uniform light.
- Aluminum PCB for direct and quick heat dissipation.
- Curtain style for easy mounting.
- Two lengths for option.

## Application

Suitable for advertising lighting like back-lit lightbox with thickness of 5-12cm.

## Installation

Fix with clips and 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)
YD2-W-4305	W	8000-9000	170°	432	70+	90	12	4.80
YD2-W-5306				518				5.76
YD2-W-9310				864				9.60
YD2-W-1212				1037				11.52

## Other Parameters

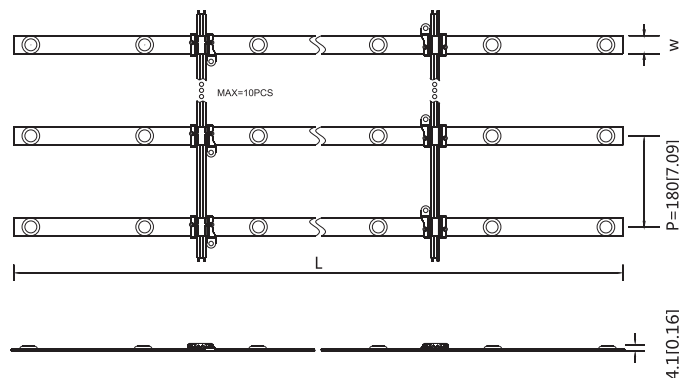
Model No.	LED Quantity/pc	Product Size L*W*H(mm)	Max Run(pcs)	Working Temperature	Storage Temperature
YD2-W-4305	5	430*16*6.5	10	-20~+60°C	-20~+70°C
YD2-W-5306	6	530*16*6.5			
YD2-W-9310	10	930*16*6.5			
YD2-W-1212	12	1130*16*6.5			

NOTE:

1. Test environment temperature : 25±2°C.
2. 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.
3. The luminous flux is tested with single light on.
4. Different color temperature will make luminous flux different.
5. Power tolerance within ±10%.
6. The max run refers to the maximum number that can be reached under the wire standard of the product.

## Profile Drawings

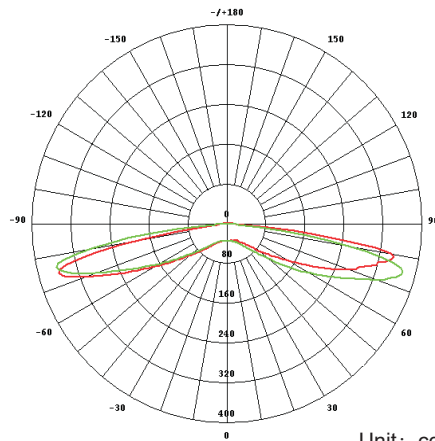
Unit:mm[inch]



Note: Please ask the sales for detail drawing.



Luminous Intensity Distribution Diagram



Unit: cd

— C0 /180,177.0°

— C90/270,175.7°

AVERAGE BEAM ANGLE(50%): 176.4°

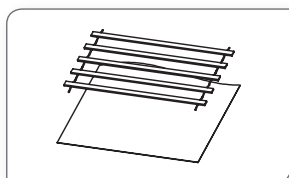
Average Illumination

Height	Emax	Beam Angle	Diameter
1cm	3476,349485lx	175.61°	52.14cm
2cm	869.1,87371lx		104.29cm
3cm	386.3,38832lx		156.43cm
4cm	217.3,21843lx		208.58cm
5cm	139,13979lx		260.72cm
6cm	96.56,9708lx		312.87cm
7cm	70.94,7132lx		365.01cm
8cm	54.32,5461lx		417.16cm
9cm	42.92,4315lx		469.30cm
10cm	34.76,3495lx		521.44cm

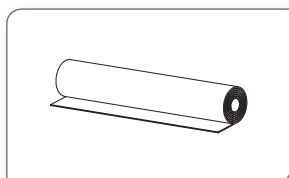
Flux Out: 895.6lm      8500K

Note: the above two figures are tested with the sample normally on, please contact sales for other data.

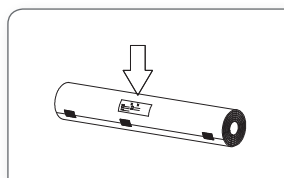
packing



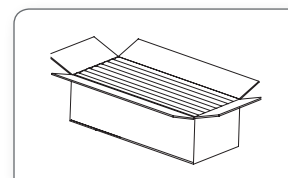
Put the product on the PE foam.



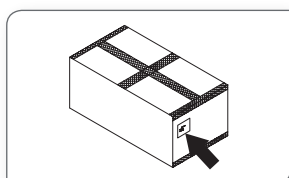
Wrap it well.



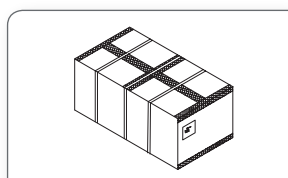
Seal and label it



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)
YD2-W-4305	430*16*6.5	570*375*285	300	12.25(1±10%)	13.55(1±10%)
YD2-W-5306	530*16*6.5	570*375*285	300	15.09(1±10%)	16.40(1±10%)
YD2-W-9310	930*16*6.5	1175*295*180	120	10.85(1±10%)	12.28(1±10%)
YD2-W-1212	1130*16*6.5	1175*295*180	120	13.15(1±10%)	14.55(1±10%)

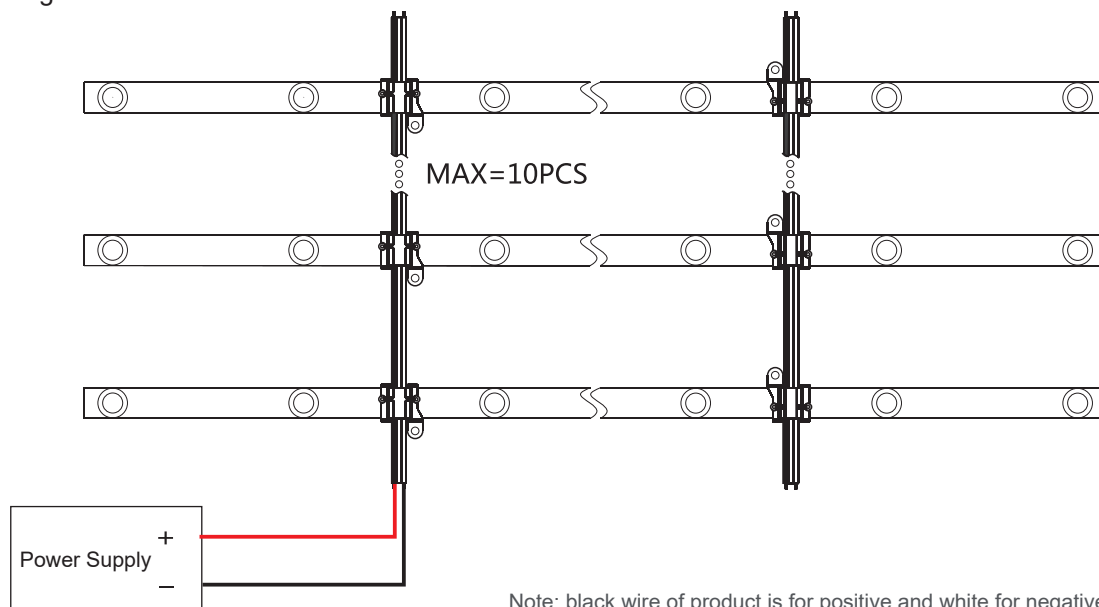
**Note:**

Shipping materials: EPE foam 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**

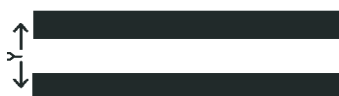
Connection Diagram



Installation Reference

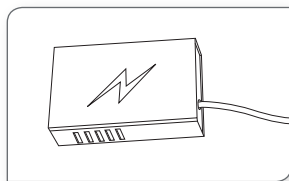
Model No.	Light Box	Bottom Color of Light Box	Surface Material	Thickness H(cm)	Illumination (Lux)	Density (pcs/ m <sup>2</sup> )	Bar Spacing Y(cm)	Visual effects
YD2-W	Single-sided Lightbox	White	White Soft Film	5	6210-7030	8	11	OK
				6	6750-7480	9	10	OK
				8	5120-5740	8	11	OK
				10	4030-4450	7	13	OK
				10	3610-4020	6	15	OK
				12	3370-3660	6	15	OK
				12	2720-2910	5	17	OK

**Note:**

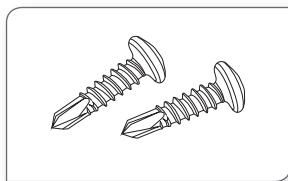


- 1.Spacing, see left;
- 2.The above figure is tested with sample YD2-9310,the other spec. please refer to this figure.
- 3.Please contact the sales for other data.

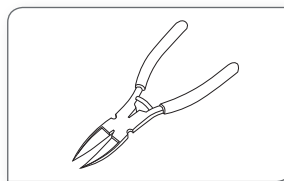
### Products and Tools



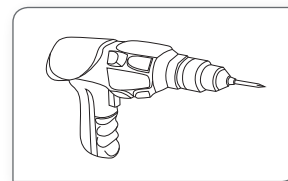
LED power supply



M3 Self-tapping Screw



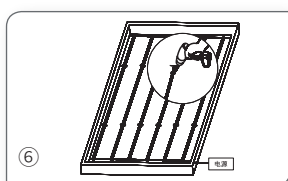
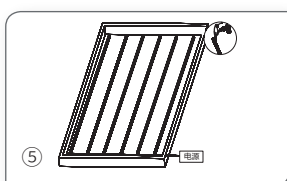
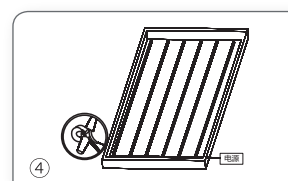
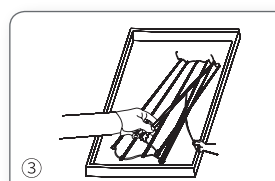
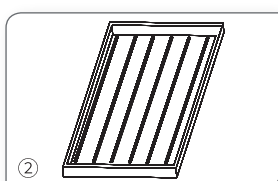
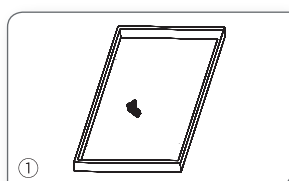
Diagonal pliers



Electric drill

### Installation Methods and Steps

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



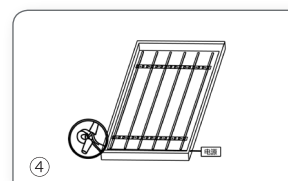
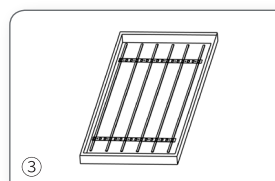
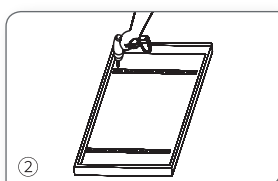
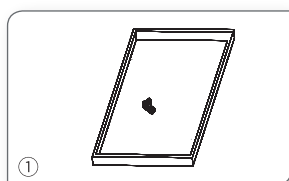
**Note:**

Screw to avoid welding plate, avoiding short circuit

When fastening the screw, make sure to add plastic gaskets to insulate the screw from the LED panel.

1. Clean the mounting surface free of dust and debris.
2. Arrange the mounting space.
3. Peel away the self adhesive tape on the back of product and evenly mounting the product with appropriate space.
4. For bare wire connection, please use terminals.
5. Fix the screw holes of power supply after correct installation.
6. Fix the clips and screws of product ,then power on for self-test.

Method two: fix by clip bar



1. Clean the mounting surface free of dust and debris.
2. Evenly mounting the clip bars with appropriate space and fix with screws.
3. Fix the product one by one with clips on the bar and cut off the excess rigid bar.
4. For bare wire connection, please use terminals. Connect the power supply and treat the wire end well.  
Note: Cut in the middle of the wire.

**Note:**

1. Make sure the metal clip bar without reach any live part to avoid short circuit.
2. Treat the wire end with insulation, waterproof, and anti-corrosion arrangement as it cannot pull out by hands.
3. Screw to avoid welding plate, avoiding short circuit
4. 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 (0.75mm<sup>2</sup> 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.