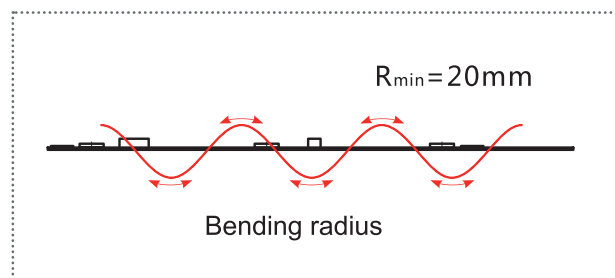


## Features

1. High brightness, average efficacy to 92lm/W
2. Flexible and cuttable every single LED
3. Small size for different requirements
4. Long lifespan with great lumen maintenance
5. Full range of color temperatures: 2800K-9500K
6. Multiple specifications available



## Application

Luminous letter, signage, general lighting

## Installation

Fix by 3M self adhesive tape

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## Optical & Electrical Parameters

Model No.	Color Temperature (K)	Beam Angle	Typical Luminous Flux value(lm/m)	Ra	Efficacy (lm/w)	Voltage (DC V)	Power (W/m)
FN-2835E-30-12	2800-3200	120°	612	80+	85	12	7.2
	4000-4500		641		89		
	5000-5500		655		91		
	6500-7000		655		91		
	8000-9500		648		90		
FN-2835E-60-12	2800-3200	120°	1224	80+	85	12	14.4
	4000-4500		1282		89		
	5000-5500		1310		91		
	6500-7000		1310		91		
	8000-9500		1296		90		
FN-2835E-120-12	2800-3200	120°	1858	80+	86	12	21.6
	4000-4500		1944		90		
	5000-5500		1987		92		
	6500-7000		1987		92		
	8000-9500		1966		91		

## Other Parameters

Model No.	LED Quantity (pcs)	Product Size L*W (mm)	Max Run (Single Feed) (m)	Min Cuttable length(mm)	Working Temperature	Storage Temperature
FN-2835E-30-12	30	5000*10	6.5	33.3	-20~+60°C	-20~+70°C
FN-2835E-60-12	60	5000*10	4.0	16.7	-20~+60°C	-20~+70°C
FN-2835E-120-12	120	5000*8	2.5	25	-20~+60°C	-20~+70°C

### 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.Luminous flux is tested when lighting on with the single color.
- 4.Different color temperature will make luminous flux different.

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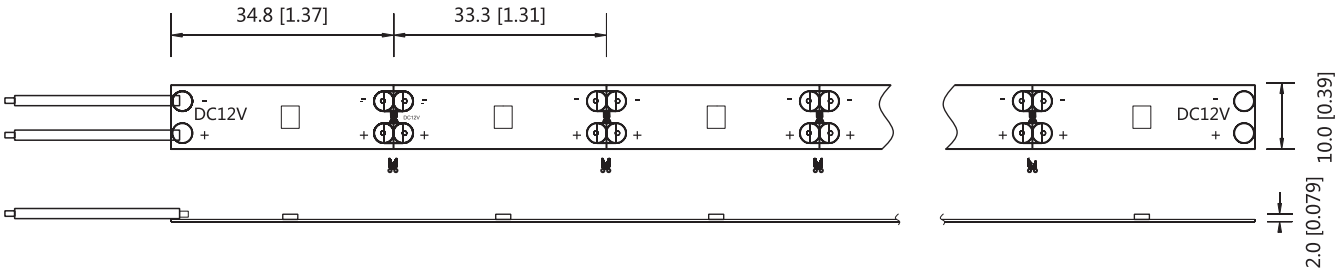
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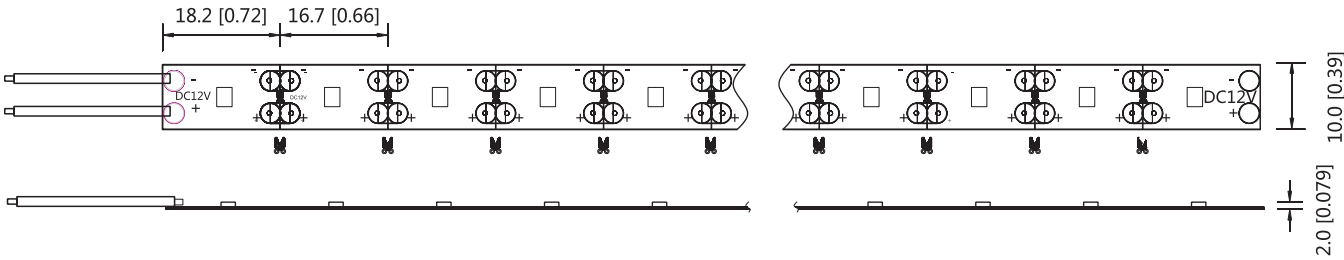
**Profile Drawing**

Unit:mm [inch]

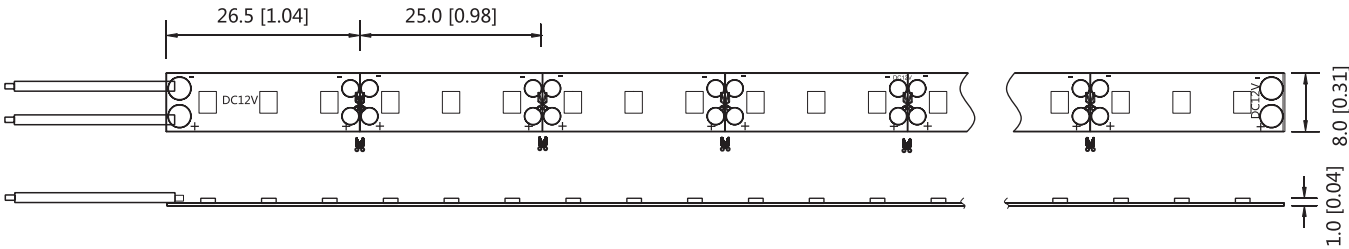
FN-2838E-30-12



FN-2838E-60-12



FN-2838E-120-12



Note:Please ask the sales for detail drawing

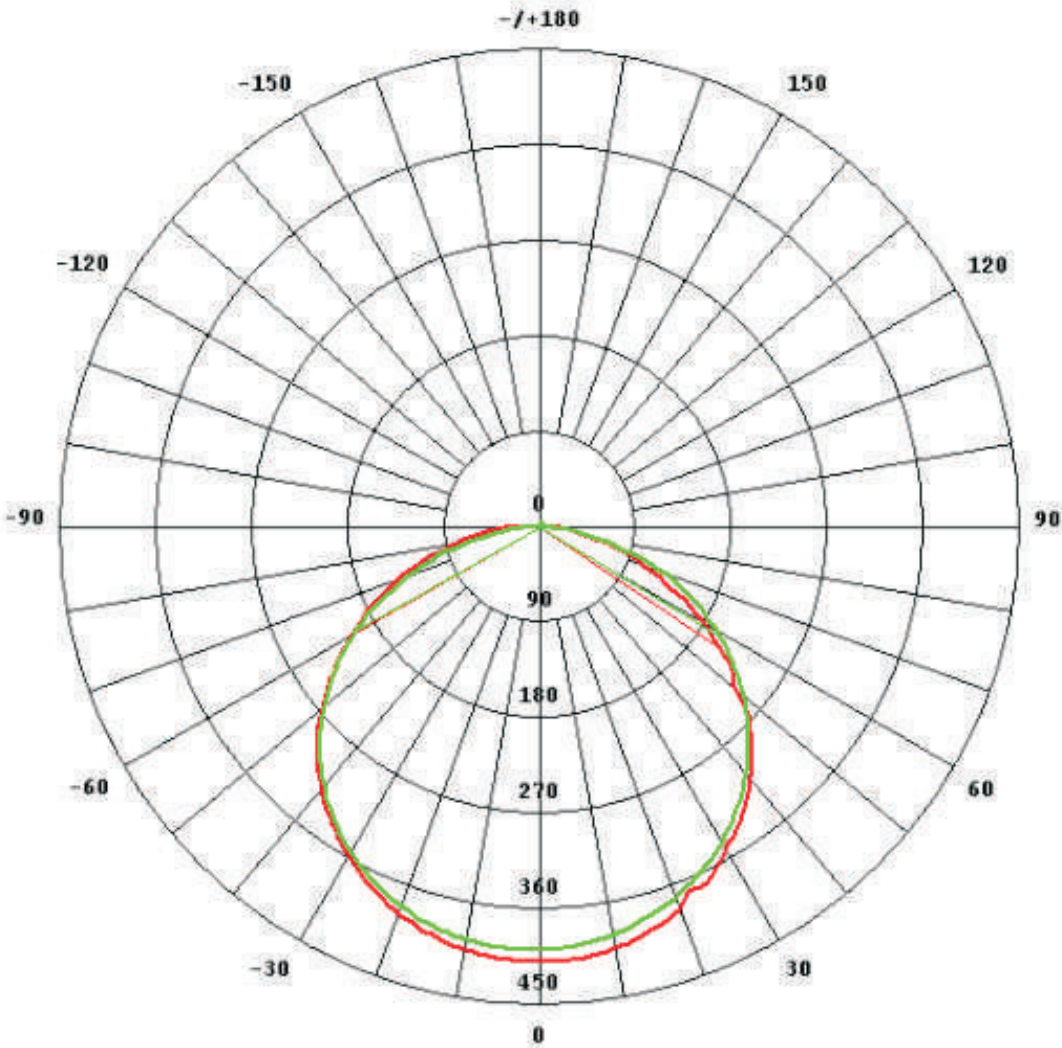
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# Luminous Intensity Distribution Diagram



Unit: cd

AVERAGE BEAM ANGLE(50%): 117.4°

- C0/180,115.9°
- C90/270,118.9°

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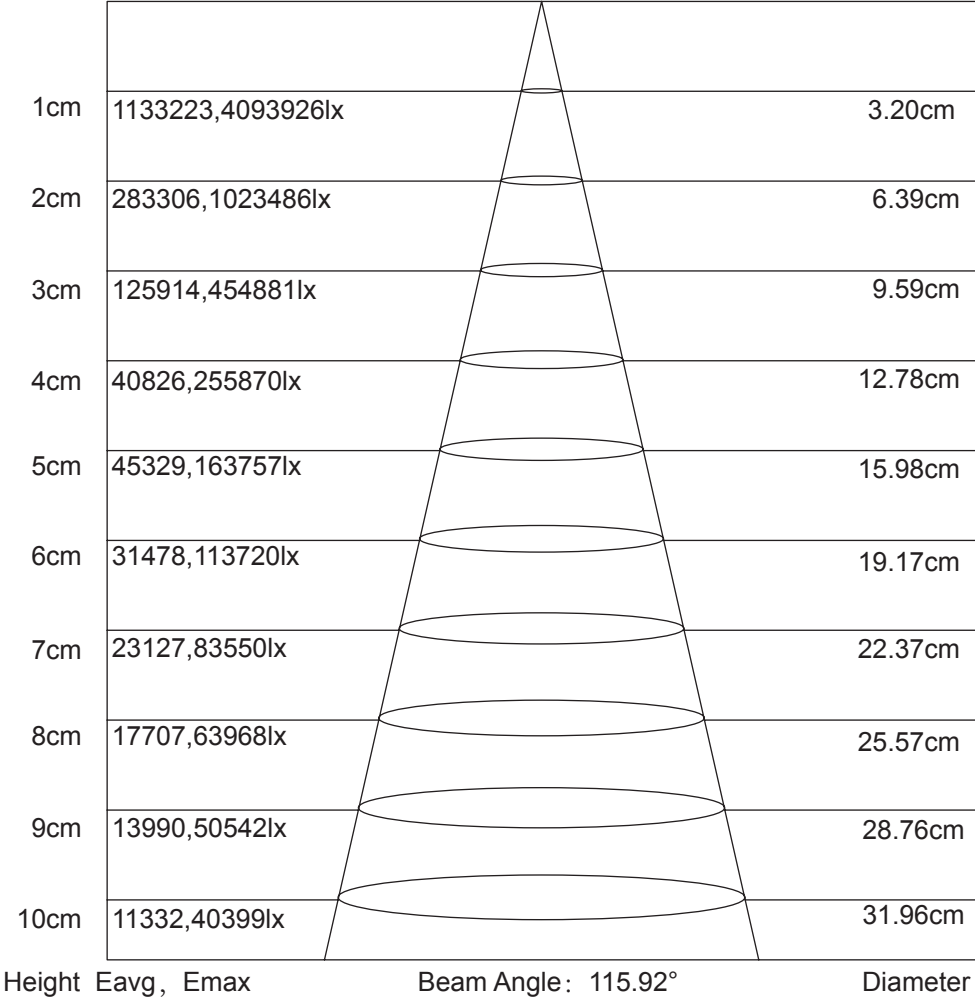
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**Average Illumination**

Flux Out: 911.8lm



**Note:**

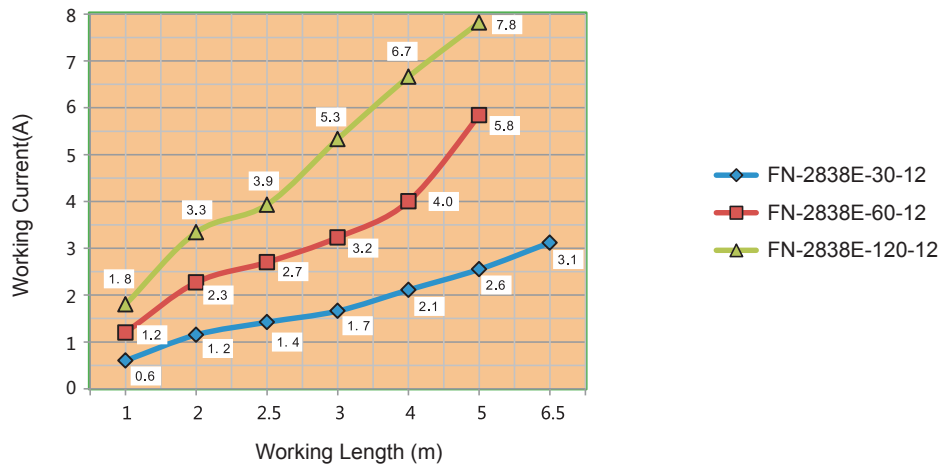
The above data are measurements of sample FN2835B-60-12 at 8000-9500K color temperature. Please ask the sales for other data.

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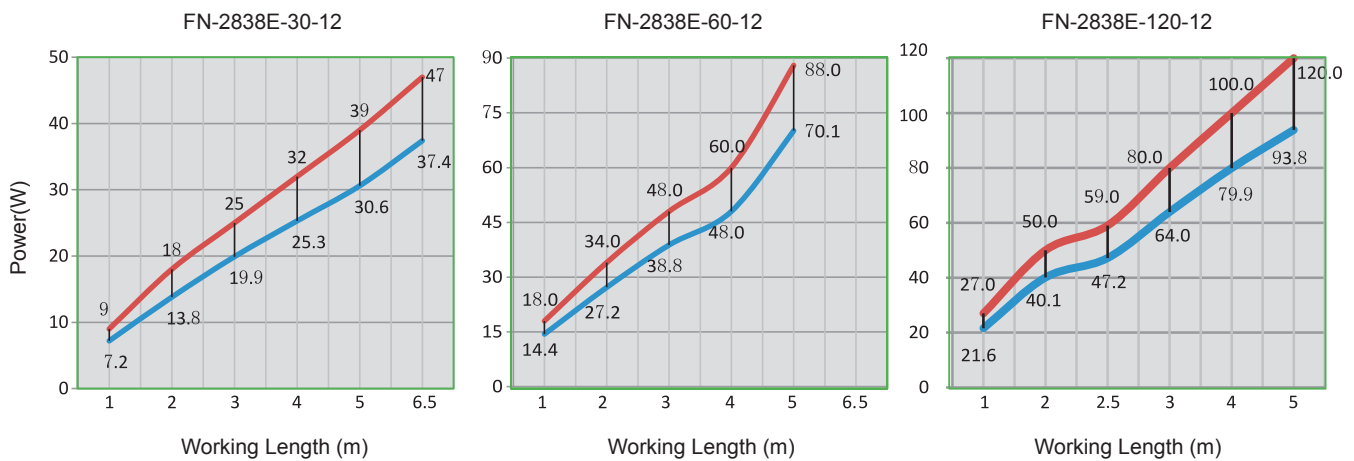
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### Length vs. Current

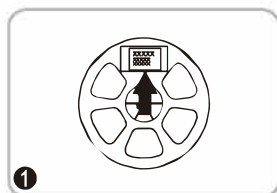


### Length vs. Power



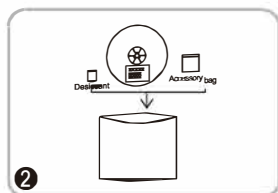
— Actual power(W)      — Recommended Power Supply Configuration(W)

## Packaging



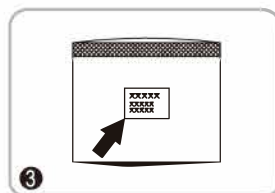
1

Label the reel;



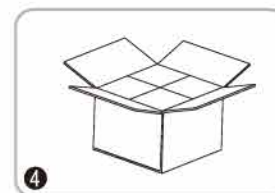
2

Put reel, accessory bag and desiccant together into static shielding bag;



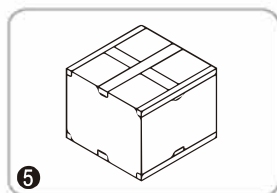
3

Seal and label the static shielding bag;



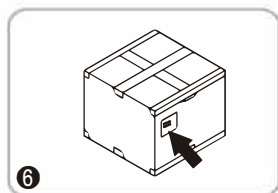
4

Put the packed static shielding bag into carton box;



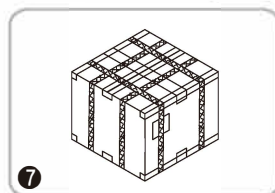
5

Seal the carton box;



6

Label the box;



7

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

### Packaging information

Model No.	Product Size (mm)	Carton Size (mm)	Meter/Reel	Reel/Carton	Net Weight(kg)	Gross Weight(kg)
FN-2835E-30-12	5000*10	550*400*340	5	100	13.5(1±10%)	14.75(1±10%)
FN-2835E-60-12	5000*10	550*400*340	5	100	13.5(1±10%)	14.75(1±10%)
FN-2835E-120-12	5000*8	550*400*340	5	100	15.12(1±10%)	16.42(1±10%)

#### Note:

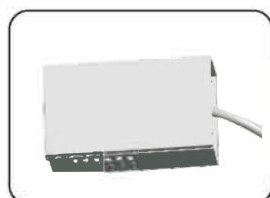
- 1 roll(5 m / strip) for a reel,per reel packed in a static shielding bag.
- The above quantity and weight are only for the illustrated packaging method. There will be differences in the quantity and weight with other packaging methods.

## Installation

### 1.Products and Tools



FN-2835E



LED power supply



Self-tapping screw



Electrical tape

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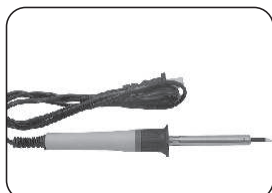
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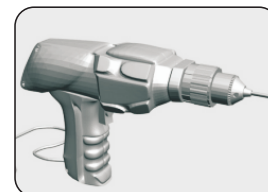
Clips



Electric iron



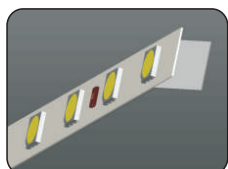
Diagonal pliers



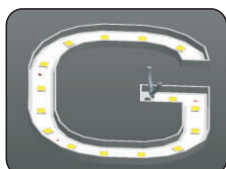
Electric drill

## 2. Installation Methods and Steps

### By self adhesive tape



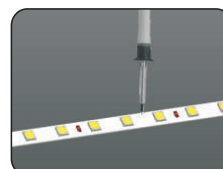
Peel away the self adhesive tape on the rear.



Cut off the excess part based on the installation position.



Evenly arrange the strips with appropriate space in the light box.

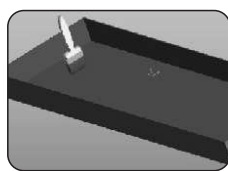


Use soldering iron for welding if need connection.

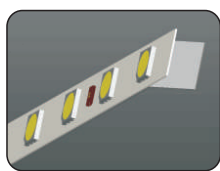


Connect main line to power supply.

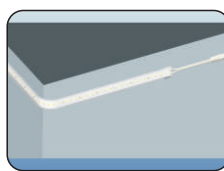
### By clips



Clean the mounting surface.



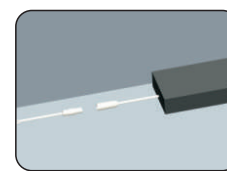
Peel away the self adhesive tape on the rear.



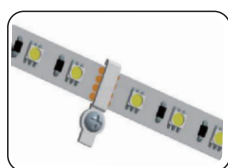
Evenly arrange the strips with appropriate space in the light box.



Stick the strips on the signage accordingly.



Connect the strips with compatible power supply.



Installation figure.

## Attentions

1. Before installation, check that the product parameters are consistent with the requirements (Seeing product specifications or product labels)
2. Load voltage, current, power and power supply should be matched with the product.
3. Follow the instructions of wiring diagram (first connect the load and then the power supply) to avoid short circuit.
4. Make sure the correct connection of positive and negative poles between led module and power supply. Otherwise, the light will not be on.
5. Make sure the power cord firmly screwed into the terminal and it should not be pulled out by hands.
6. The terminal should have insulation, waterproof and anti-corrosive treatment.

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## 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.	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 led module working voltage within $\pm 5\%$ of standard voltage, or keep balance by circuit power consumption.
	Excessive quantities in series connection of LED modules.	Reduce the quantities of LED modules 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> 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 as backlight of 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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