

Version: A1.7

Features

1. High voltage AC 220V input;
2. Large beam angle with even illumination;
3. Adopt curtain style, 6pcs bars per string ;
4. Various specifications, support customization;

Application

Suitable for back-lit light box with a depth more than 6cm

Installation

Fixed by screws

Specification

Model No.	Light Color	Color Temperature	Beam Angle	Typical Luminous Flux value(lm/pcs)	Ra	Efficacy (lm/W)	Voltage (V AC)	Power (W/pcs)
A0-FT-0303	W	6000-12000K	170°	320	80+	130	220	2.46
A0-FT-0606		6000-12000K		672		140		4.79
A0-FT-0909		6000-12000K		995		138		7.19
A0-FT-1212		9000-12000K		1276		138		9.19

Other Parameters

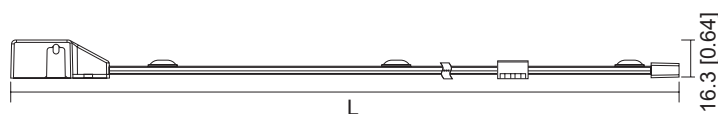
Model No.	LED Quantity/pc	Product Size L*W*H	Standard Run	Max Run	Working Temperature	Storage Temperature
A0-FT-0303	3	285*51.5*16.3mm	6pcs	24pcs	-20~+60℃	-20~+70℃
A0-FT-0606	6	571*51.5*16.3mm				
A0-FT-0909	9	856*51.5*16.3mm				
A0-FT-1212	12	1136*51.5*16.3mm				

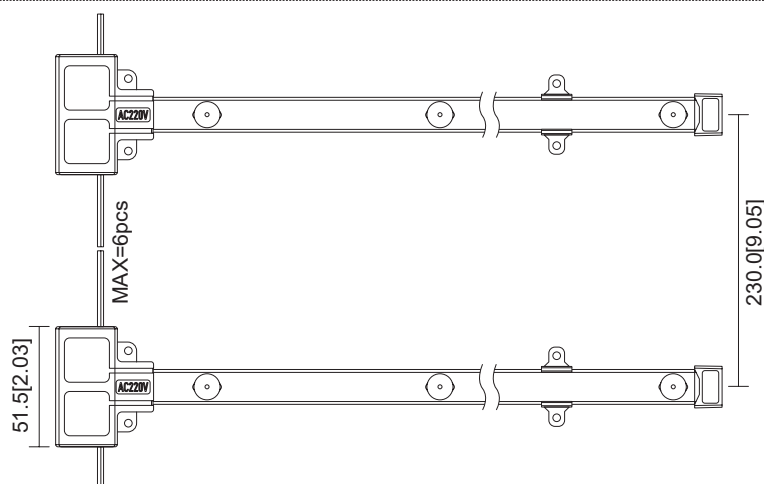
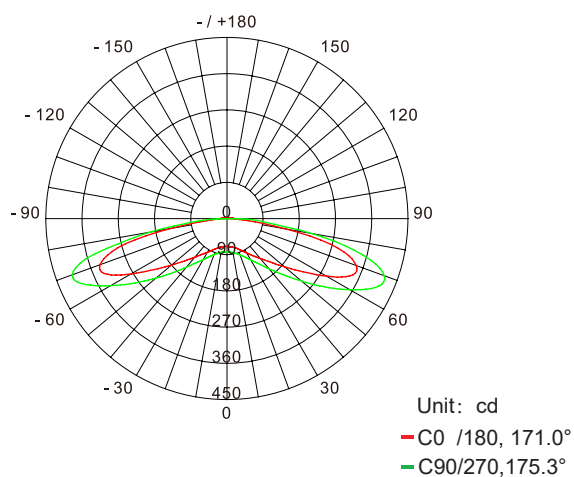
NOTE:

1. Testing temperature: 25±2℃.
2. 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.
3. Lamp beads in different gears, the color temperature and luminous flux will be different.
4. Voltage: AC176-264V
5. The tolerance of the luminous flux and power is ±10%
6. Max run is the max series connection quantity in application

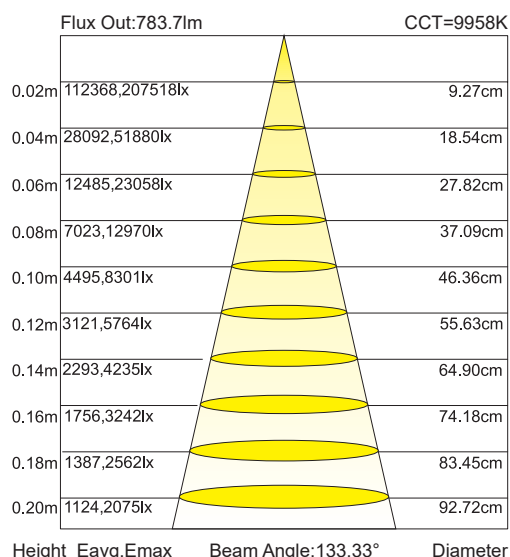
Profile Drawings

Unit:mm[inch]




Luminous Intensity Distribution Diagram


AVERAGE BEAM ANGLE(50%): 173.2°

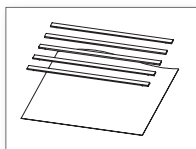
Average Illumination


Note: the above two figures are tested with the sample A0-FT-1212 at 9958K, please contact sales for other data.

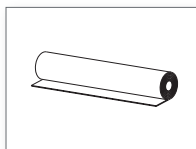
Reliability Test

Test name	Test type	Standard	Test condition	Result
Environmental test	PTC test	Blueview standard	TH=40°-60°C, 2h a cycle, each cycle the temperature holds 15min, ,temperature shifting takes 45min	PASS
	High temperature resistant test		TH=60/80°C, continuous power on	
	Anti-UV test		TH=60°C, UVB:280~315nm	
	Room temperature aging test		TH=25°C, continuous power on	

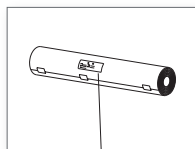
packing



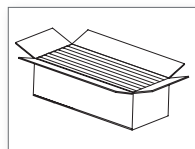
Place the products on the pearl foam



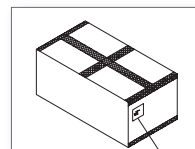
Wrap the pearl foam



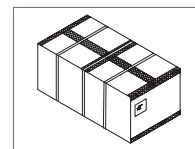
Seal both ends and stick a label



Put the product neatly into carton box.



Seal and label the box.



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

Packaging information

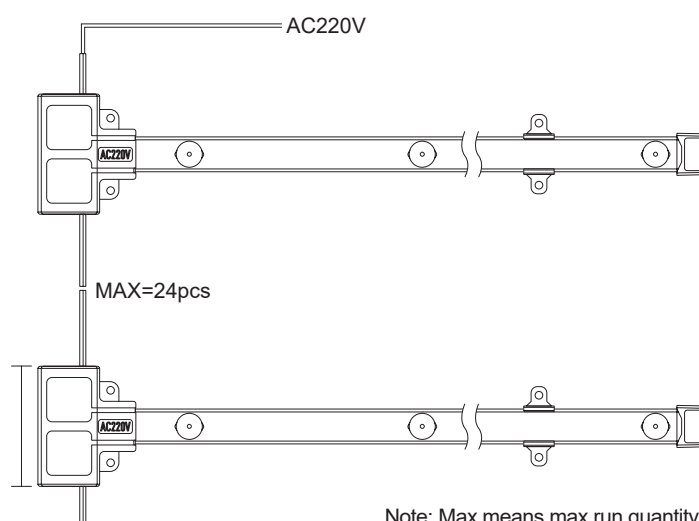
Model No.	Product Size L*W*H(mm)	Carton Size(mm)	Sum (pcs)	Net Weight(kg)	Gross Weight(kg)
A0-FT-0303	285*51.5*16.3	430*210*240	120	7.94(1±10%)	9.50(1±10%)
A0-FT-0606	571*51.5*16.3	730*210*240	120	10.94(1±10%)	12.10(1±10%)
A0-FT-0909	856*51.5*16.3	1030*210*240	90	10.45(1±10%)	11.90(1±10%)
A0-FT-1212	1136*51.5*16.3	1250*210*180	60	8.70(1±10%)	10.50(1±10%)

Note:

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

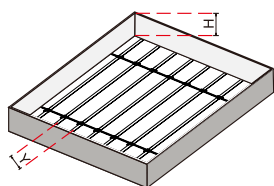
The above quantity and weight are only for the illustrated packaging method. There will be differences in the quantity and weight with other packaging methods.

Installation



Installation Reference

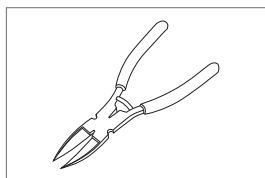
Model No.	Bottom Color of Lightbox	Surface Material	Depth(H) cm	Illumination (lux)	Density (pcs/m ²)	Spacing (Y)cm	Power Density (W/m ²)	Visual Effects
A0-FT-1212	White	White Soft Film	8	6210-7480	7	14	84	OK
			10	5150-6130	6	16	72	
			12	4280-5030	5	20	60	
			15	3900-4480	5	20	60	
			18	3600-4040	5	20	60	
			20	3500-3890	5	20	60	



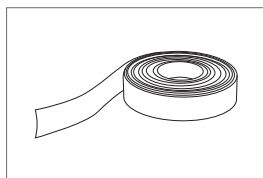
Note:

- 1.Spacing, see left;
- 2.For the data of other depth,please consult sales rep.
- 3.Please contact the sales for other data.

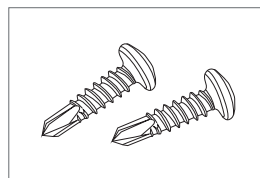
Products and Tools



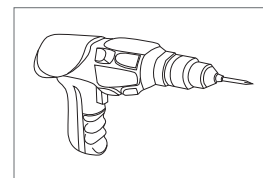
Diagonal pliers



Insulation Tape

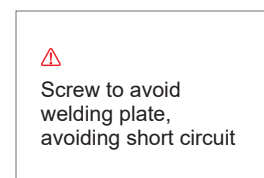
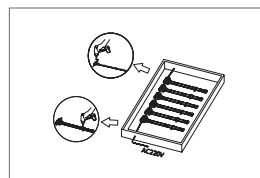
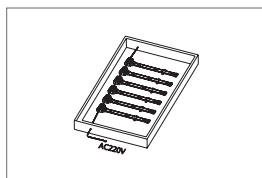
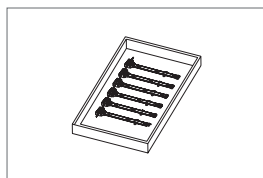
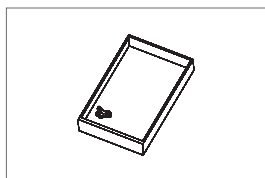


Screw



Electric drill

Installation Methods and Steps



1. Clean the mounting surface.
2. Arrange the mounting space.
3. For bare wire connection, please use terminals.
4. Check and ensure correct installation, and fix the product with screws ,then power on for self-test.



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.**
- **Bending, twisting and other operations will damage the internal electronic circuits and components, causing quality problems or even serious accidents.**
- **Our company's surge protective device is needed when using this kind of high voltage product.**

Common Faults and Troubleshoot

Quick Guide		
Problems	Reasons	Solutions
All LEDs can not light on.	No electric supply.	Fix the short circuit problem.
LEDs can not light on partly.	Some switching mode power supplies are not powered.	Correctly connection.
LED flicker.	Connection point fault.	Remove bad connection point.
	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.