

Version: A1.0

Features

1. Exclusive ultra-narrow design.
2. Adopt secondary optical design.
3. Featured in uniform lighting with good linear effect.
4. A variety of specifications are optional, support customization.

Application

Suitable for gas station cornices, mines lighting, etc.

Installation

Fixed by screws

Specification

Model No.	Light Color	Color Temperature (nm/K)	Beam Angle	Typical Luminous Flux value(lm/pcs)	Ra	Efficacy (lm/W)	Voltage (V DC)	Power (W/pcs)
FB-XR-03036	R	620-625	99*104°	122	/	30	24	4.05
FB-XR-06072				243				8.10
FB-XR-12135				486				16.20
FB-XR-14162				567				18.90

Other Parameters

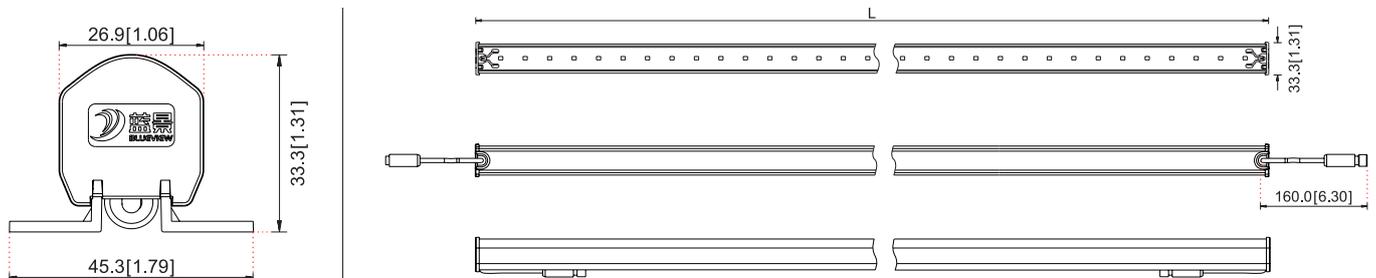
Model No.	LED Quantity/pc	Product Size L*W*H(mm)	Standard Run(pcs)	Max Run(pcs)	Working Temperature	Storage Temperature
FB-XR-03036	36	300*26.9*33.3	1	10	-20~+50°C	-20~+70°C
FB-XR-06072	72	600*26.9*33.3		5		
FB-XR-12135	135	1200*26.9*33.3		3		
FB-XR-14162	162	1400*26.9*33.3		2		

NOTE:

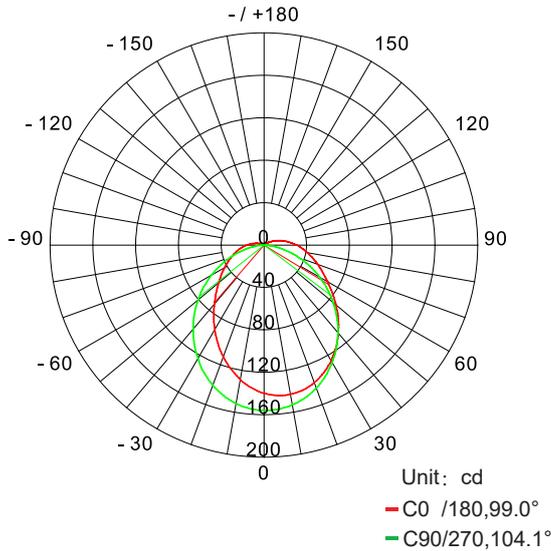
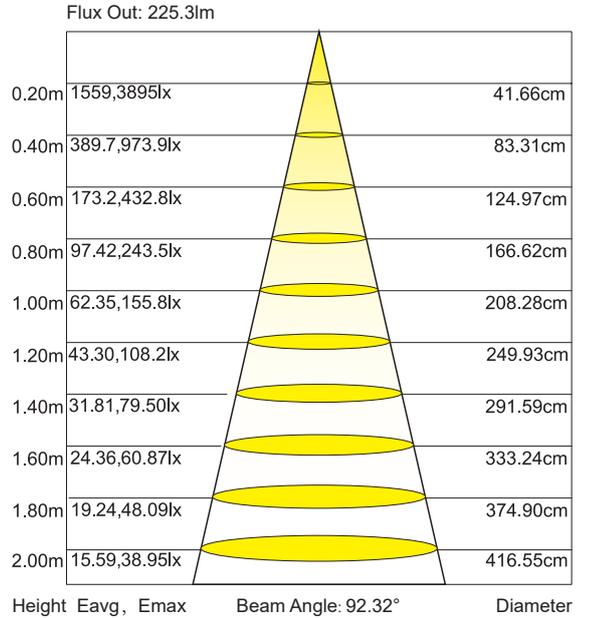
1. Testing temperature: 25±2°C
2. The above data are typical values. The actual data of each single product may differ from the typical values. The data is subject to change without notice.
3. Luminous flux is tested when lighting on single color.
4. Lamp beads in different gears, the color temperature and luminous flux will be different.
5. Luminous flux, power and current tolerance within ±10%.
6. Max run is in double feed.

Profile Drawings

Unit: mm[inch]



Note: For detail drawing, please consult sale rep.

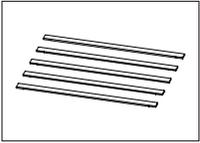
Luminous Intensity Distribution Diagram

AVERAGE BEAM ANGLE(50%): 101.5°
Average Illumination


Note:the above data tested with the sample FB-XR-12135. For other data,please consult sale rep.

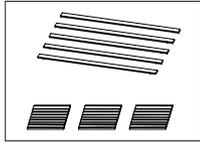
Reliability Test

Type	Name	Standard	Condition	Result
Environmental test	PTC test	Blueview standard	TH=-40°C~60°C, cycle every 2h (holding 15min, heating and cooling 45 min)	Pass
	High temperature resistance test		TH=60/80°C,continuous power on	
	Anti-UV test		TH=50°C,UVB:315~400nm	
	Salt spray corrosion test		TH=35°C, concentration 5 % , volume 1~2ml/h/80cm2	
	Room temperature aging test		TH=25°C,continuous power on	
	Waterproof test		Water spray diameter: 12.5mm, distance: 3m, water flow: 100L/min, test duration: 3min	IP66
Other test	Flame retardant test		Placed the sample vertically in the needle flame tester, the flame lasted for 10s and then observe the self-extinguishing time of the sample.	Pass
	Tensile test		Test the peel strength of the wire	
	Drop Test		Test height of 1/1.5/2m	

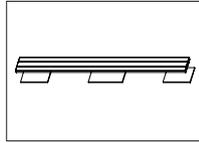
packing



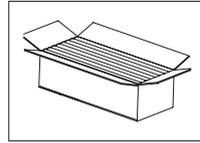
Put products on the table;



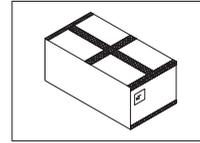
Use 2 plastic pallets below 1m; use 3 plastic pallets above 1m;



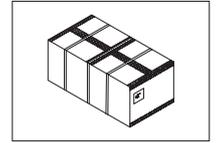
Put products into plastic pallets;



Put the products neatly into carton box.



Seal and label the box.



Use packing belt to pack and edge protectors are needed.

Packaging information

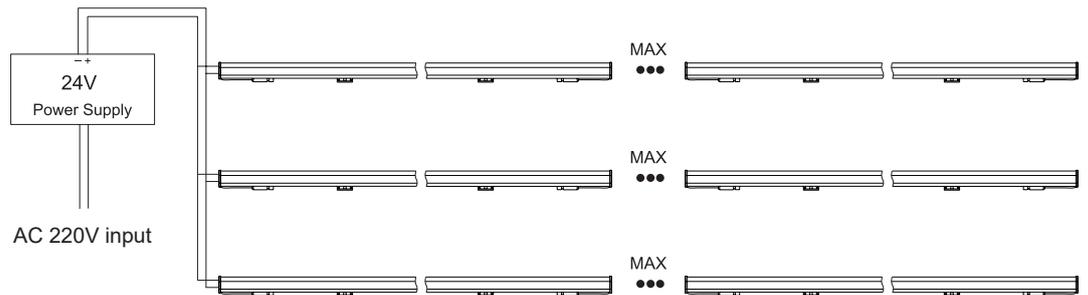
Model No.	Product Size L*W*H(mm)	Carton Size(mm)	Pcs/Carton Box	Net Weight(kg)	Gross Weight(kg)
FB-XR-03036	300*26.9*33.3	380*380*325	100	10.85(1±10%)	12.30(1±10%)
FB-XR-06072	600*26.9*33.3	685*295*275	80	11.65(1±10%)	13.10(1±10%)
FB-XR-12135	1200*26.9*33.3	1300*185*185	30	13.05(1±10%)	14.50(1±10%)
FB-XR-14162	1400*26.9*33.3	1500*185*185	30	15.25(1±10%)	16.75(1±10%)

Note:

1. Packing material: blister trays and carton box
2. 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.

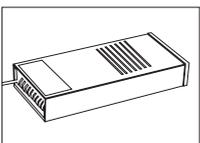
Installation

Connection Diagram

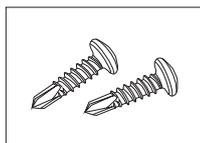


Note: the "MAX" here means the max connectable series

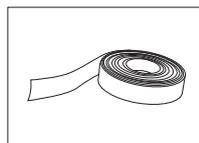
Products and Tools



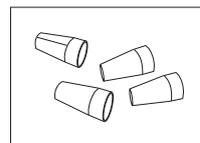
LED power supply



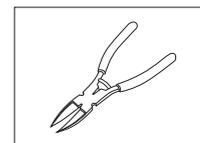
Self-tapping screw



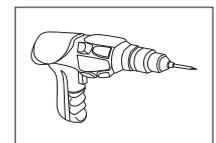
Insulation Tape



Connection terminal



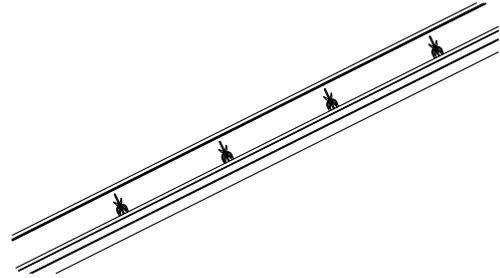
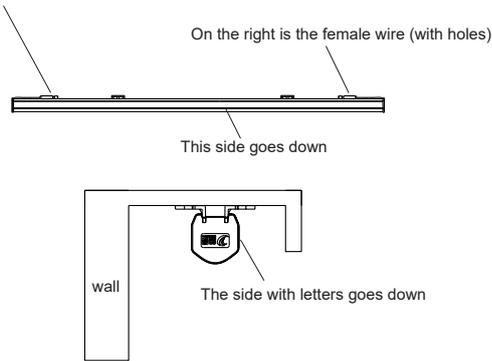
Diagonal pliers



Electric drill

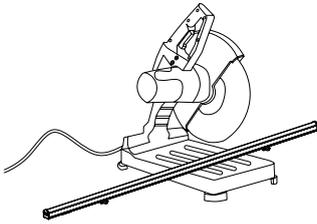
Installation Methods and Steps

On the left is the male thread (with pin)

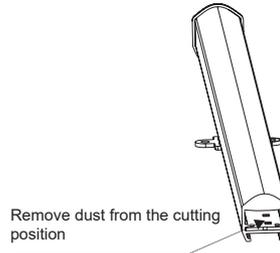


Note: pay attention to the installation direction.

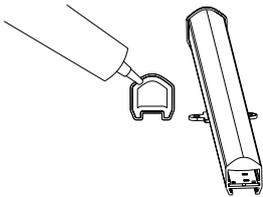
It can be cut at the cut position according to the needs;



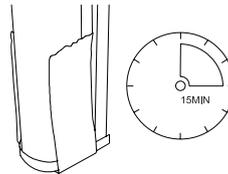
The adjustable part can only be cut at the end close to the connector; the section without the connector after cutting cannot be used!
Use a miter box to ensure a clean, square cut.



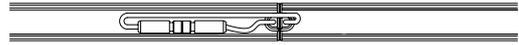
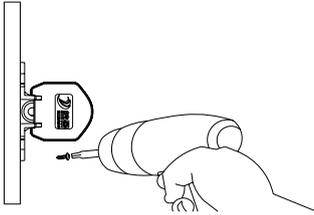
Remove dust from the cutting position.
Make sure the cut is clean and square (sand it if necessary).
In uneven places, the end cap cannot play a waterproof role.
Push the PCB into the bar before installing the end cap.



Apply glue to the end cap and cutting surface.
(please use factory original glue).
Follow the safety instructions and carry this operation in a well ventilated place.



Install the end cap and fix it with an adhesive tape. the tape can be removed 15 mins later, and the bar can be installed 30 mins later.



Fix the mounting clip with screws.

Warning:

- Only adjustable part can be cut.
- Do not cut the product in a humid environment.
- Adjustable part damaged by water ingress will not be warranted.

Warning:

The wire is hidden under the light bar. When connecting the second section, double check that the cable is not pinched.

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.	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 24 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.