



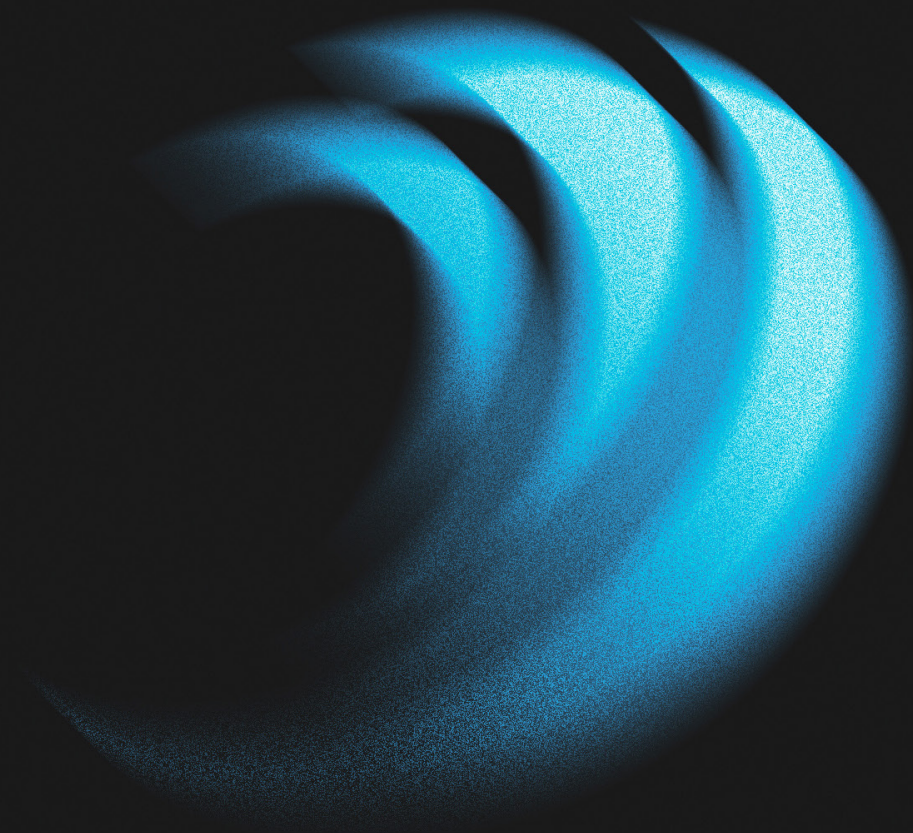
LED

RIGID BAR

FB-X 2.0

DC 24V

Border Tubing Light





FB-X 2.0 | Border Tubing Light

FEATURES

- Max run 20m with dual end power feed.
- PC frosted cover, providing uniform lighting with dust-proof, light-concentrating, and decorative functions;
- High-strength tube body, excellent impact resistance;
- Multiple specifications and colors available, with customization options upon request.



150°



2835



DC 24V



5Years



IP67

Pantone Color Guide		
	Red (PANTONE1797C)	
	Orange (PANTONE1665C)	
		
		

OPTICAL & ELECTRICAL PARAMETERS

Model No.	Voltage	Color	Ra	CCT/Color Available	Typical Luminous Flux Value(lm/pcs)	Efficacy(Lm/W)	Power(W/pcs)
FB-W2.0-06072	24V DC	W	>80	7000K	282	109	2.59
FB-W2.0-24294					1153		10.58
FB-R2.0-06072	24V DC	R	--	620-630nm	56	21	2.59
FB-R2.0-24294					228		10.58
FB-G2.0-06072	24V DC	G	--	518-528nm	72	27	2.59
FB-G2.0-24294					294		10.58
FB-B2.0-06072	24V DC	B	--	465-475nm	24	9	2.59
FB-B2.0-24294					97		10.58
FB-Y2.0-06072	24V DC	Y	--	582-592nm	197	76	2.59
FB-Y2.0-24294					807		10.58
FB-O2.0-06072	24V DC	O	--	607-617nm	27	20	2.59
FB-O2.0-24294					219		10.58
FB-Amber2.0-06072	24V DC	Amber	--	593-603nm	84	32	2.59
FB-Amber2.0-24294					346		10.58

OTHER PARAMETERS

Model No.	LED Qty/pc	Product Size L*W*H (mm)	Max Run (double feed) (pcs)	Max Run (single feed)(pcs)
FB-X2.0-06072	72	610*29*32	28	14
FB-X2.0-24294	294	2439*29*32	8	4

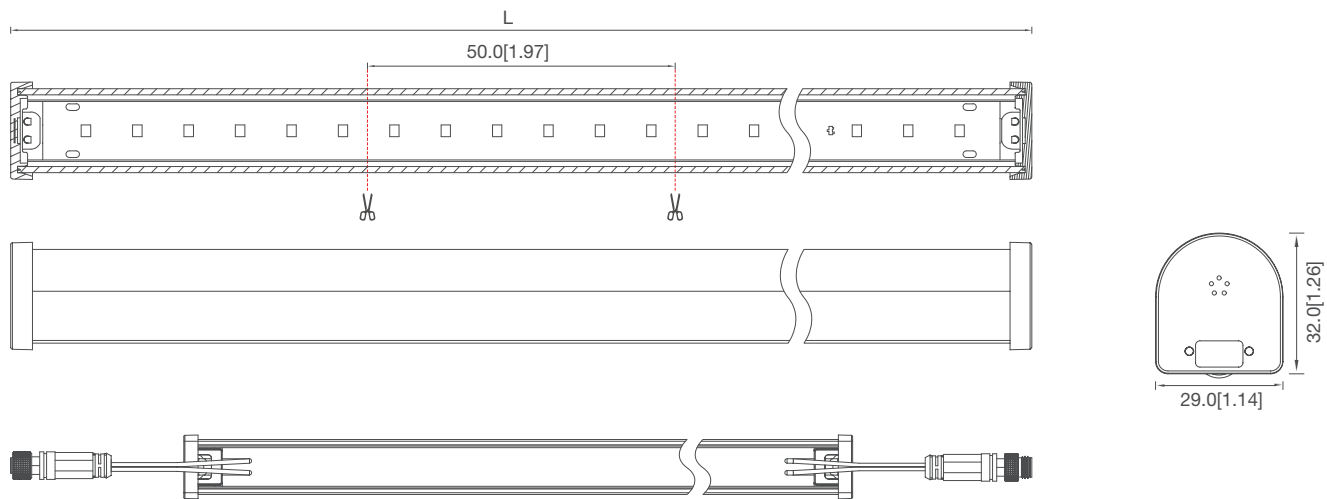
☐ Working Temperature: -20~+50°C ☐ Storage Temperature: -20~+60°C

NOTE:

- Test environment temperature : 25±2°C.
- Figures above are typical figures. Actual figures could be different with typical figures, and the data is subject to change without notice.
- The above luminous flux data is based on corresponding light colors.
- Different color temperature will make luminous flux different.
- The luminous flux and power error is ±10%.

PROFILE DRAWINGS

Unit: mm[inch]

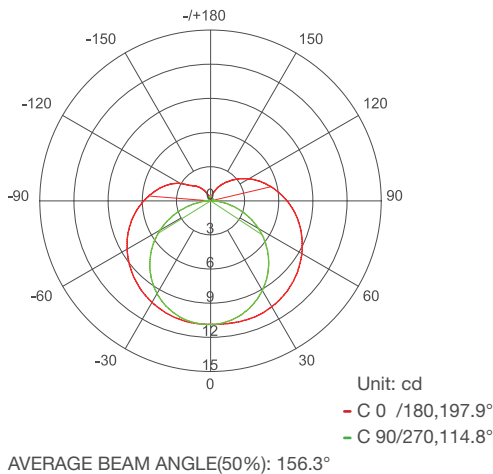


Note: for more info, please contact sales rep.

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

AVERAGE ILLUMINATION

FB-R2.0-06072

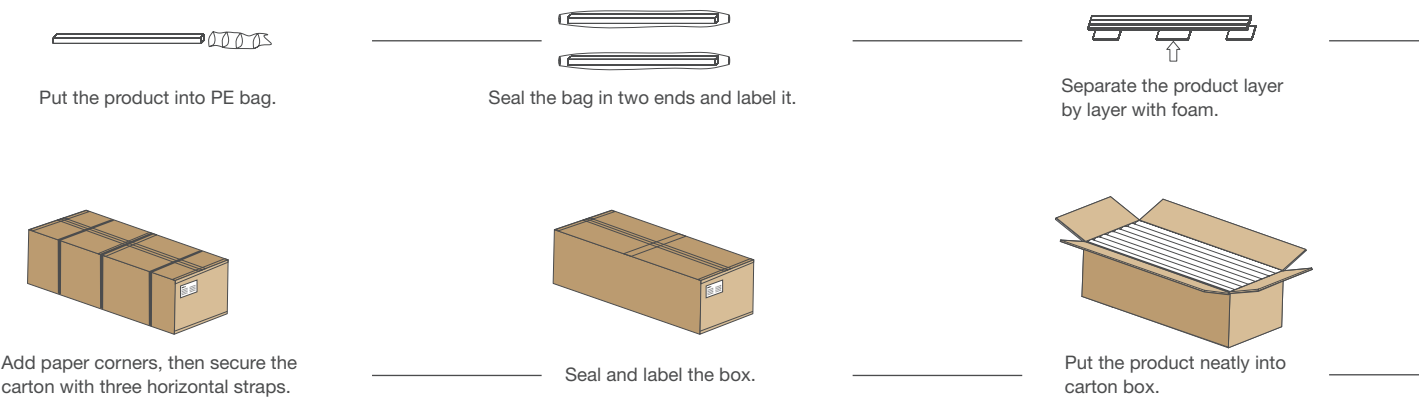


Flux Out: 39.90lm

Height	Eavg, Emax	Beam Angle: 156.30°	Diameter
0.02m	1200,27495lx		19.06cm
0.04m	299.9,6874lx		38.13cm
0.06m	133.3,3055lx		57.19cm
0.08m	74.98,1718lx		76.26cm
0.10m	47.99,1100lx		95.32cm
0.12m	33.32,763.7lx		114.38cm
0.14m	24.48,561.1lx		133.45cm
0.16m	18.74,429.6lx		152.51cm
0.18m	14.81,339.4lx		171.57cm
0.20m	12.00,274.9lx		190.64cm

Note: the above two figures are tested with the sample FB-R 2.0-06072,for other data,please consult sale rep.

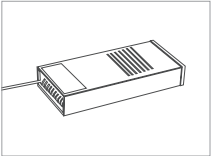
PACKAGING INFORMATION



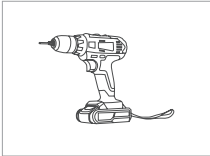
Model No.	Product Size L*W*H (mm)	Carton Size (mm)	pcs/Carton	Net Weight (kg)	Gross Weight (kg)
FB-X2.0-06072	610*29*32	685*295*275	60	11.4(1±10%)	12.9(1±10%)
FB-X2.0-24294	2439*29*32	2450*150*104	10	7.6(1±10%)	8.6(1±10%)

Note:
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.

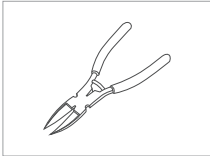
ACCESSORIES & TOOLS



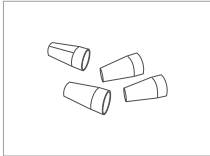
LED power supply



Electric drill



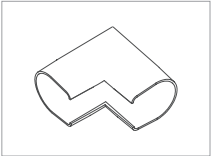
Diagonal pliers



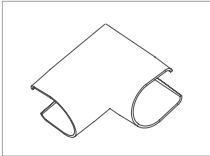
Connection Terminal



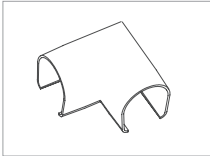
Insulation Tape



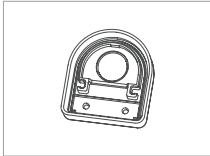
90° outer connector



90° inside connector



90° corner connector



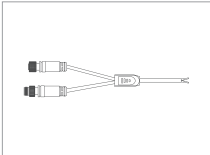
End cap



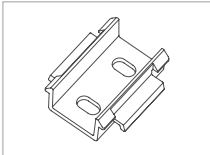
Screw



Silicone Glue

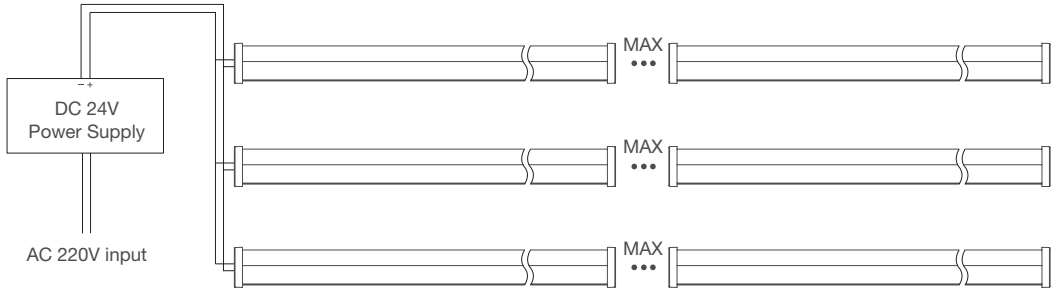


Y-type connector cable



Plastic mounting clip

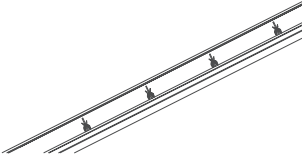
INSTALLATION



Note: Max means max run quantity.

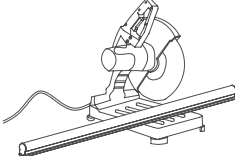
INSTALLATION STEPS

1



On-site adjustable tube light can be cut approximately every 50 mm at designated points. To locate the cutting position, shine a flashlight (or a smartphone with flashlight function) from the front side.

2



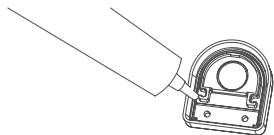
The adjustable section can only be cut from the vconnector end. Any section without a connector after cutting is scrap and cannot be used! Use a hacksaw with a fine-tooth blade to cut at your marked position. A miter box should be used to ensure a clean, square cut.

3



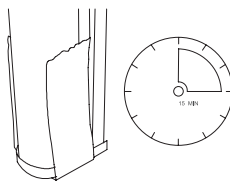
Remove any burrs and debris from the cut end. Ensure the cut is clean and square (grind if necessary). End caps will not provide a weatherproof seal on uneven surfaces. Before installing the end cap on site, push the cut PCB as far into the tube as possible.

4



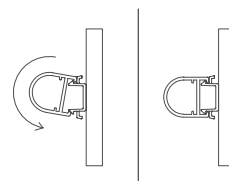
Apply a generous, continuous bead of glue to the end cap and cut end of the tube light. Do not substitute any other adhesive or sealant. Use the glue in a well-ventilated area following the safety instructions on the tube.

5



Install the end cap and secure it with an adhesive tape. the tape can be removed 15 mins later, and the tube light can be installed 60 mins later.

6



hook the tube light into the top of the mounting clip, then press down to ensure the tube light is correctly seated in the clip until you hear a “click.”

Note:
Only the field-adjustable sections can be cut to the appropriate size.
Standard sections are not adjustable.
Do not attempt cutting in wet conditions. Field-adjustable sections damaged by water are not covered under warranty.



Wiring Diagram:

Viewed from below the tube light, the connecting wires are hidden underneath. When securing the second segment, carefully check that the cable is not pinched and is freely positioned between the tube light and the mounting clip

ATTENTIONS BEFORE INSTALLATION

- Before installation, please check whether the parameters of the product are consistent with the requirements (Seeing the Product Specification or Label).
- The voltage, current, and power of the power supply and load used must be consistent with this product.
- Follow the instructions of wiring diagram (first connect the load and then the power supply) to avoid short circuit.
- Product wires must be correctly connected to the positive and negative terminals of the power output, otherwise the light will not turn on.
- The power cord should be tightly screwed into the terminal, with a recommended tightness that cannot be pulled out by hand.
- The connection terminals must be effectively waterproof and corrosion-resistant.

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.

Version	Content	Date
A1.1	Update: Accessories & Tools	2025-10-31

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