

Version: A1.5

Features

- 1.Flexible and cuttable every LED for various application
- 2.Long life span with great lumen maintenance
- 3.Support PWM, 0~10V, DALI, and DMX dimming
- 4.Multiple spec optional

Bending radius: $R_{min}=20mm$



Application

Channel letters, signage, light box, general lighting, costumes etc.

Installation

Fix by 3M self adhesive tape



Specification

Model No.	Light Color	Color Temperature(K)	Beam Angle	Typical Luminous Flux(lm/m)	Ra	Efficacy (lm/W)	Voltage (DC V)	Power (W/m)
FN-F2835-30-12	W	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-F2835-60-12	W	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-F2835-120-12	W	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/m)	Product Size L*W(mm)	Max Run Single Feed(m)	Min Cuttable length(mm)	Working Temperature	Storage Temperature
FN-F2835-30-12	30	5000*10	6.5	33.3	-20~+60℃	-20~+70℃
FN-F2835-60-12	60	5000*10	4.0	16.7		
FN-F2835-120-12	120	5000*8	2.5	25		

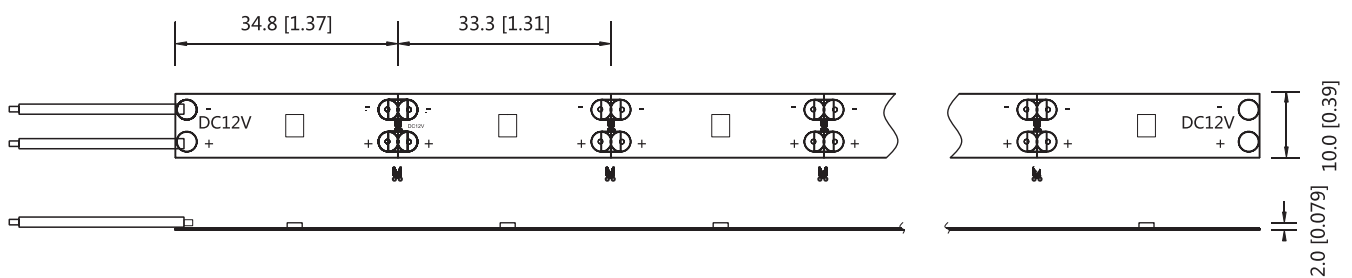
NOTE:

1. Test environment temperature : 25±2℃.
2. Figures above are typical figures. Actual figures could be different with typical figures, and the data is subject to change without notice.
3. Luminous flux above is single-color light tested result.
4. Different color temperature or wavelength will make luminous flux different.
5. Luminous flux and power tolerance within ±10%.
6. Max run is in single feed.
7. If the power is greater than 15W/m, auxiliary heat dissipation appliances must be added.

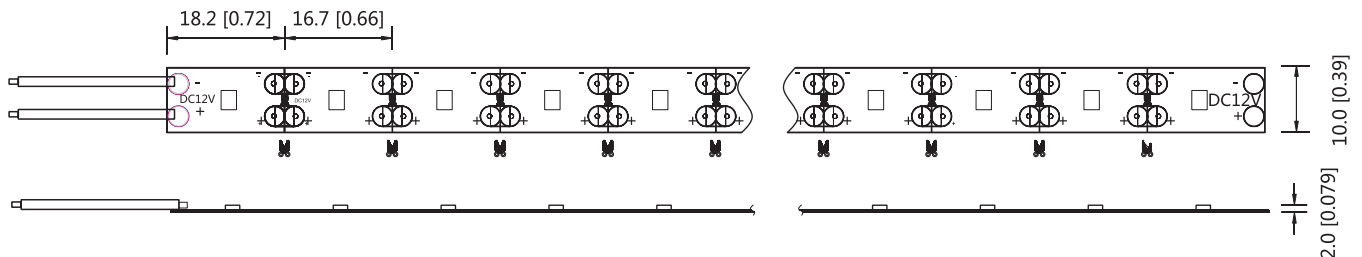
Profile Drawings

Unit:mm[inch]

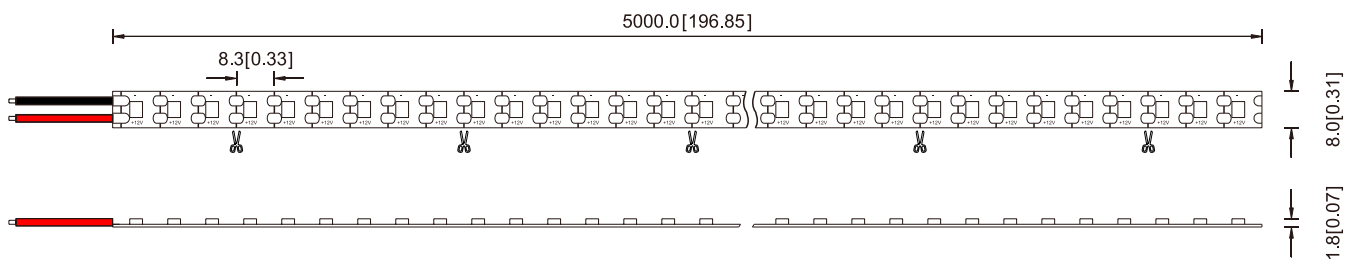
FN-F2835-30-12



FN-F2835-60-12



FN-F2835-120-12

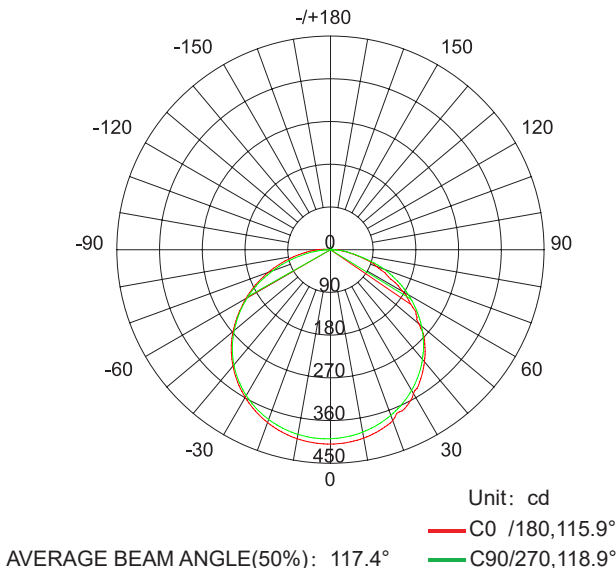


Note: For detail drawing, please consult sales rep.

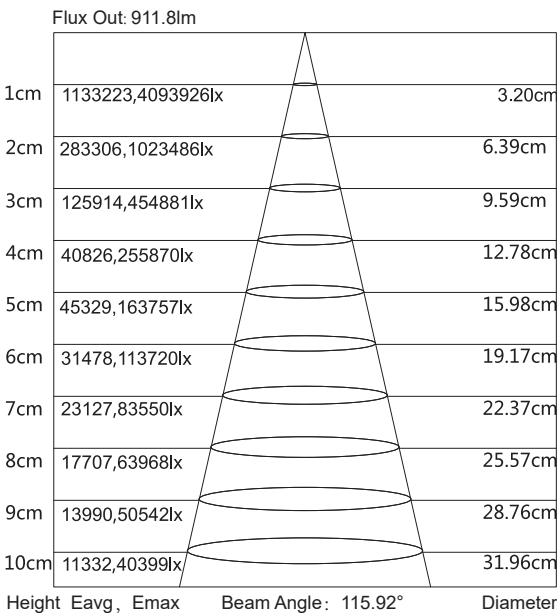
Dimensional tolerance: length $\pm$ 6mm[0.24inch], width $\pm$ 0.2mm[0.008inch], thickness $\pm$ 0.2mm[0.008inch].



Luminous Intensity Distribution Diagram



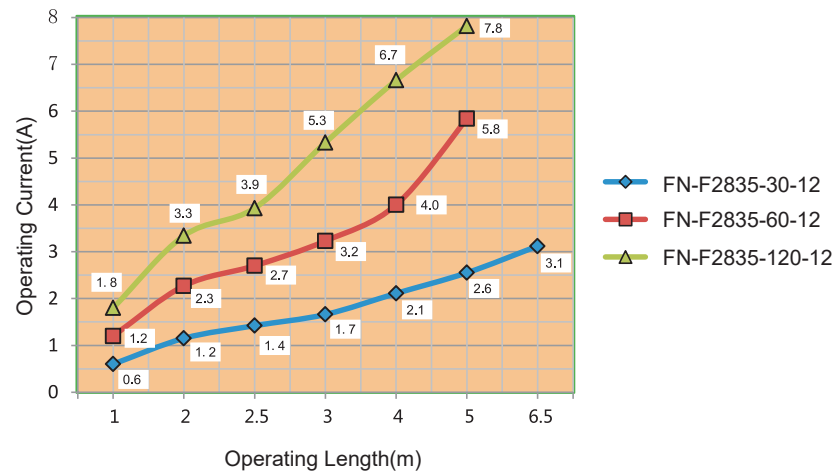
Average Illumination



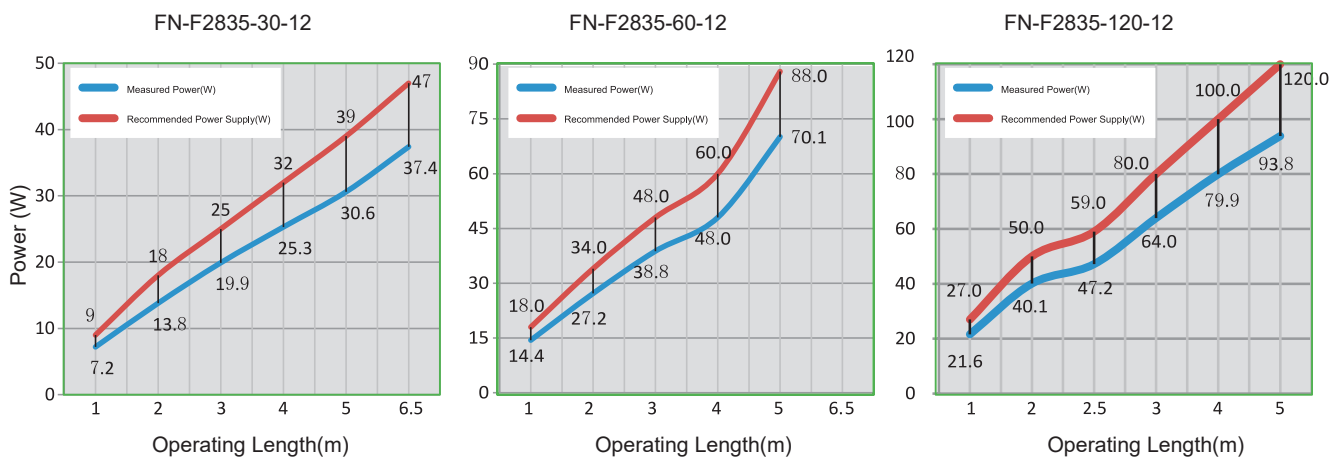
Note:The above two figures are tested with the sample FN-F2835-60-12 at 8000-9500K,for other data,please consult sales rep.



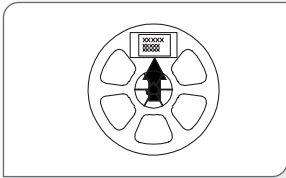
Operating Length VS. Current



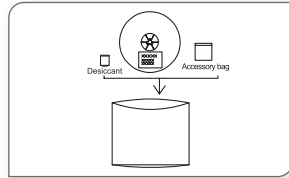
Operating Length VS. Power



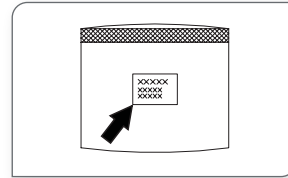
packing



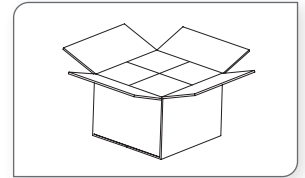
Label the reel;



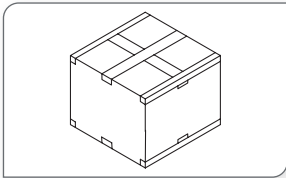
Put reel, accessory bag and desiccant together into static shielding bag;



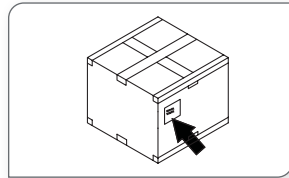
Seal and label the static shielding bag;



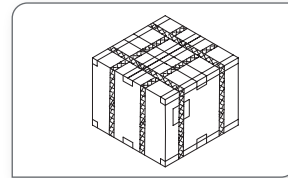
Put the packed static shielding bag into carton box;



Seal the carton box;



Label the box;



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

Packaging information

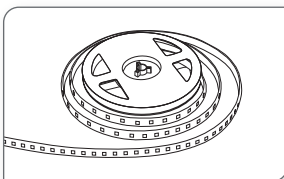
Model No.	Product Size L*W(mm)	Carton Size(mm)	Meter/Reel	Reel/Carton	Net Weight(kg)	Gross Weight(kg)
FN-F2835-30-12	5000*10	550*400*340	5	100	13.5(1±10%)	14.75(1±10%)
FN-F2835-60-12	5000*10			100	13.5(1±10%)	14.75(1±10%)
FN-F2835-120-12	5000*8			120	15.12(1±10%)	16.42(1±10%)

NOTE:

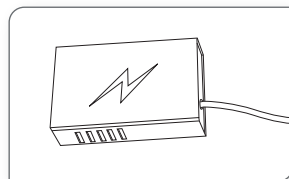
- Five meters per reel, packed in the static shielding bag.
- The above quantity and weight are only for the illustrated packaging method. There will be differences in the quantity and weight with other packaging methods.

Installation

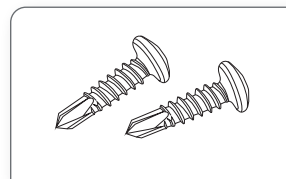
1.Products and Tools



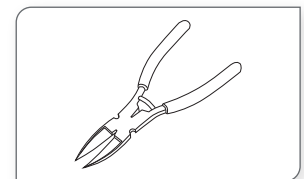
FN-F2835-XXX-XX



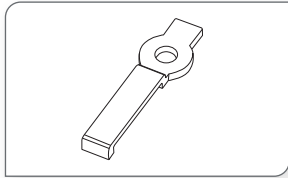
LED power supply



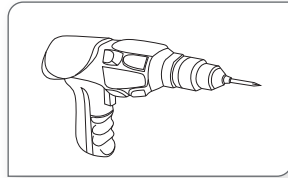
Self-tapping screw



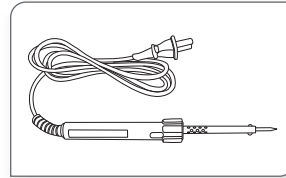
Diagonal pliers



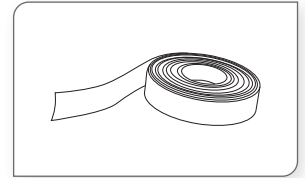
Mounting clips



Electric drill



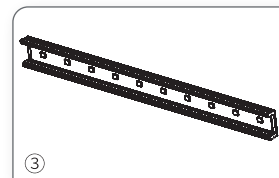
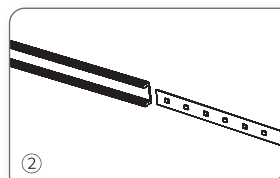
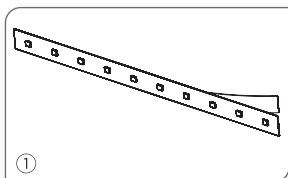
Electric iron



Insulation Tape

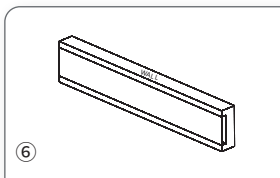
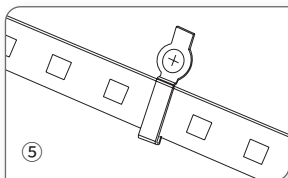
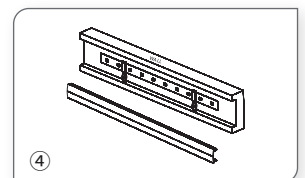
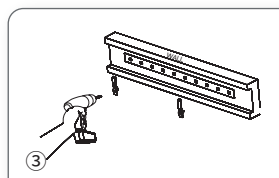
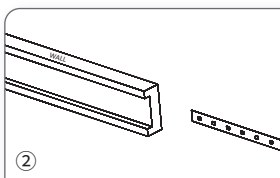
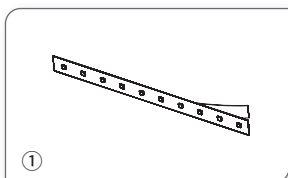
2.Installation Methods and Steps

Aluminum channel installation



1. Peel away the self adhesive tape on the back of strip.
2. Cut off the excess part based on the installation position.
3. Evenly arrange the strips with appropriate space in the track.
4. Install the cover and end cap.

Covered channel installation



1. Peel away the self adhesive tape on the back of strip.
2. Cut off the excess part based on the installation position.
3. Evenly arrange the strips with appropriate space in the track and fix them with clips.
4. Install the cover and end cap.
5. Clip installation as the figure show
6. Finished



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.
- If the working length exceeded the max run length, make sure to have extra power supply.
- If it needs higher current of a LED, make sure having extra cooling.
- **For non-waterproof strips, if the use length exceeds max run length, more power feed is needed.**
- **For non-waterproof strips, if the current of single LED exceeds regular value, auxiliary heat dissipation appliances must be added.**

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 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 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.