

## Features

- 1.The light spectrum covers the visible light region of 380-780nm with good spectral continuity.
- 2.White light from violet light excitation, reduce the content of blue light, effectively weaken the harm of blue light.
- 3.The light quality is closer to sunlight
- 4.Rf>97, Rg>100, CRI: 95+
- 5.Multiple spec. and color temperature optional

Bending radius: Rmin=20mm



## Application

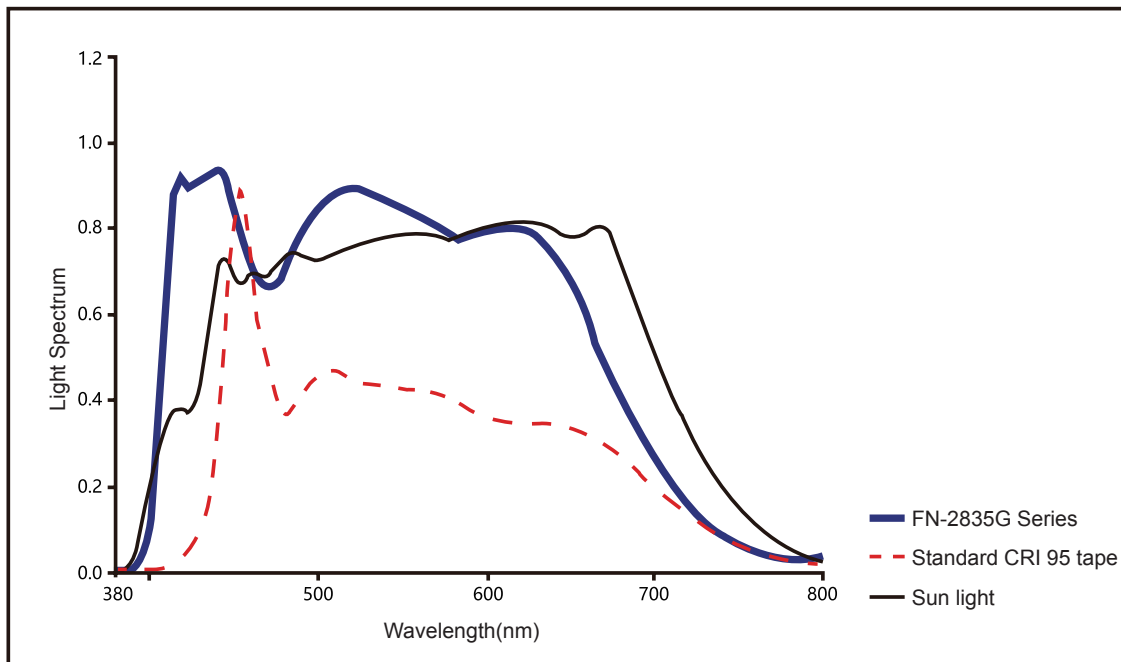
Applied for museum, shopping mall, hospital, vegetable market lighting etc.

## Installation

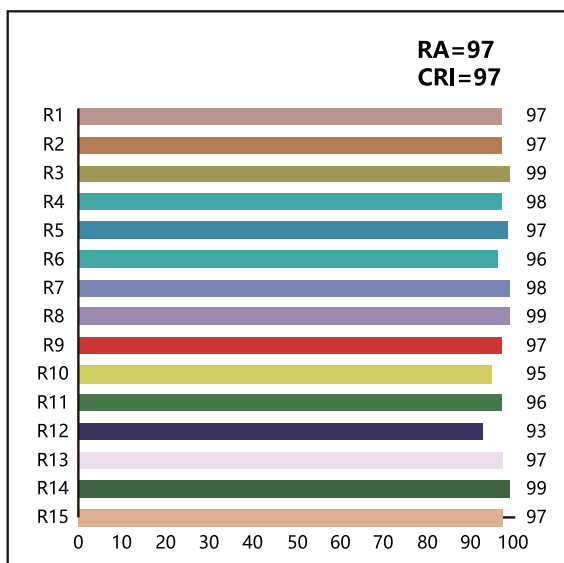
Fix by 3M self adhesive tape



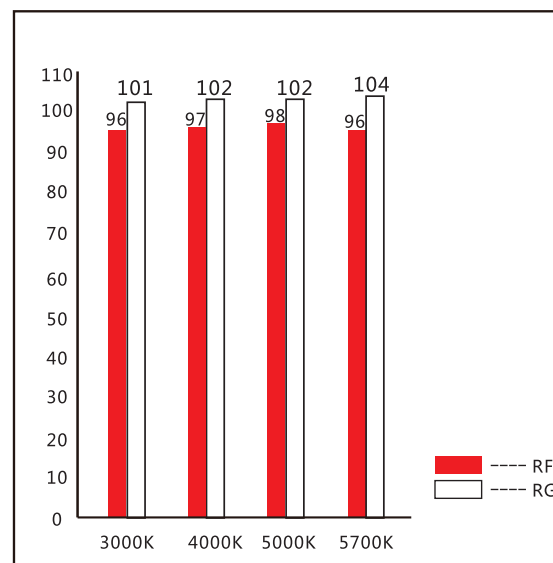
## Light Spectrum



Ra chart



RF/RG





## Optical &amp; Electrical Parameters

Model No.	Light Color	Color Temperature(K)	Beam Angle	Typical Luminous Flux(lm/m)	CRI	Efficacy (lm/W)	Voltage (DC V)	Power (W/m)
FN-2835G-60-24	W	3000	120°	856	95+	72	24V	12.00
		4000		892		74		
		5000		910		76		
		5700		907		76		
FN-2835G-120-24	W	3000	120°	874	95+	73	24V	12.00
		4000		910		76		
		5000		907		76		
		5700		916		77		

## Temperature-Related Parameters(Normal Working)

Model No.	Power(W/m)	No Brightness Difference MAX(m)	UL Max Run (m)	T <sub>A</sub> (°C )	Operating Temp T <sub>c</sub> (°C )
FN-2835G-60-24	12.00	8	6	-20~+60°C	53.5°C
FN-2835G-120-24		7			53.7°C

## Other Parameters

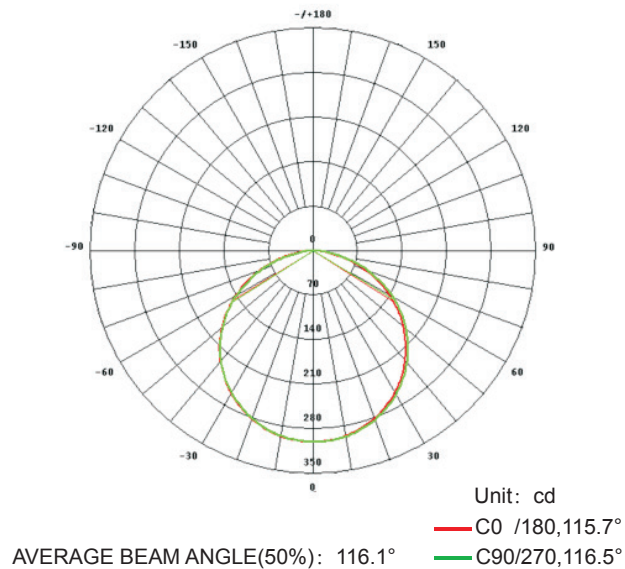
Model No.	LED Quantity(pcs/m)	Min Cuttable Length(mm)	Storage Temperature(°C )
FN-2835G-60-24	60	100	-20~+70°C
FN-2835G-120-24	120	50	

## NOTE:

1. Test environment temperature : 25±2°C.
2. Figures above are typical figures. Actual figures could be different with typical figures, and the data is subject to change without notice.
3. The luminous flux is tested with corresponding color light on.
4. Different color temperature or wavelength will make luminous flux different.
5. The Luminous efficiency is measured value.
6. Max run is in single feed.
7. UL max run refers to operating length at UL class II @100W.24V.
8. The luminous flux and power tolerance within ±10%.
9. Cutting marks see profile drawing below.



## Luminous Intensity Distribution Diagram



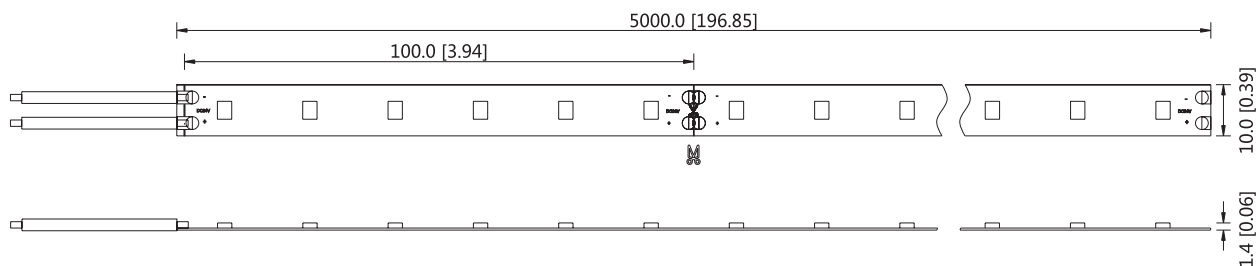
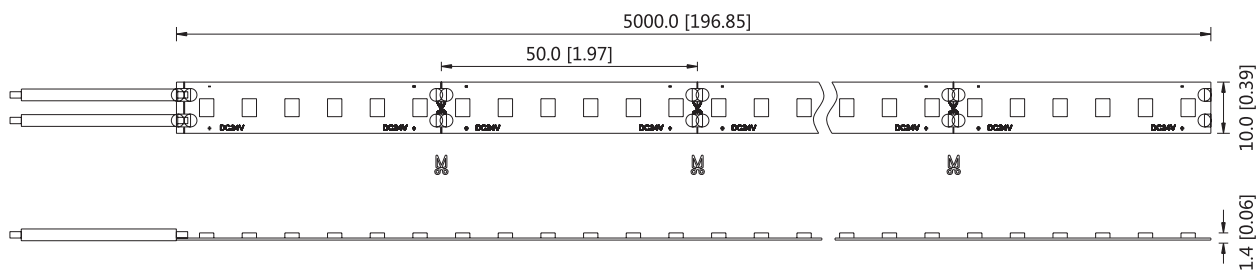
## Average Illumination

Flux Out: 668.2lm (CCT=4100K)

Height	Eavg, Emax	Beam Angle: 115.71°	Diameter
0.02m	207615,751543lx		6.37cm
0.04m	51904,187886lx		12.73cm
0.06m	23068,83505lx		19.10cm
0.08m	12976,46971lx		24.46cm
0.10m	8305,30062lx		31.83cm
0.12m	5767,20876lx		38.19cm
0.14m	4237,15338lx		44.56cm
0.16m	3244,11743lx		50.92cm
0.18m	2563,9278lx		57.29cm
0.20m	2076,7515lx		63.65cm

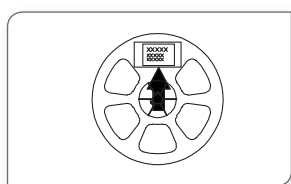
## Profile Drawings

Unit:mm[inch]

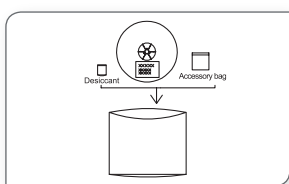
**FN-2835G-60-24**

**FN-2835G-120-24**


Note:For detail drawing,please consult sales rep.

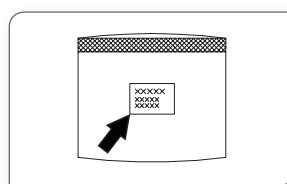
## packing



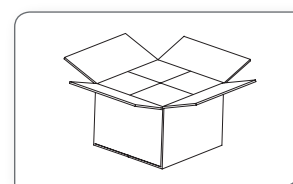
Label the reel;



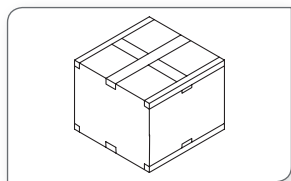
Put reel, accessory bag and desiccant together into static shielding bag;



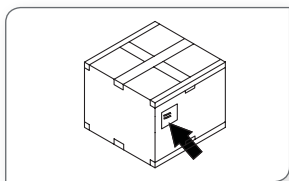
Seal and label the static shielding bag;



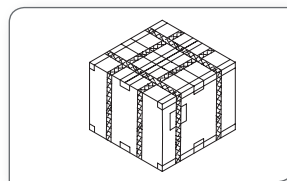
Put the packed static shielding bag into carton box;



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-2835G-60-24	5000*10	550*400*340	5	80	9.65(1± 10%)	13.15(1± 10%)
FN-2835G-120-24					10.25(1± 10%)	13.75(1± 10%)

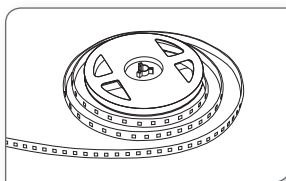
### Note:

Every 5 meter for a reel, each reel packing in a static shielding bag.

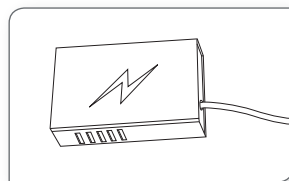
The above quantity and weight are only for the illustrated packaging method. There will be differences in the quantity and weight with other packaging methods.

## Installation

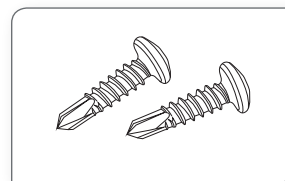
### 1. Products and Tools



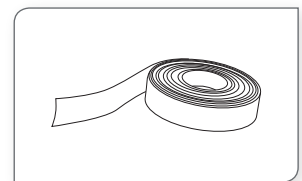
FN-2835G-XXX-XX



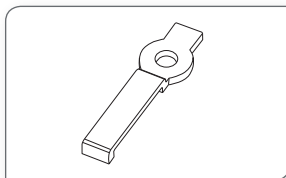
LED power supply



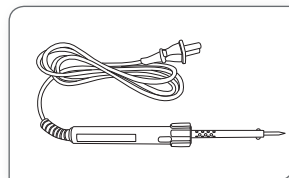
Self-tapping screw



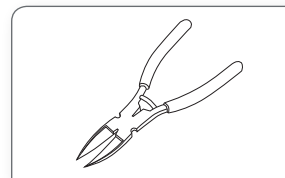
Insulation Tape



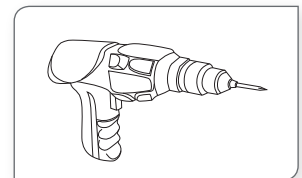
Clips



Electric iron



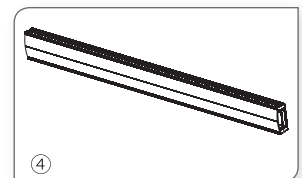
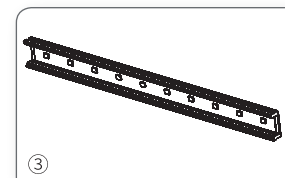
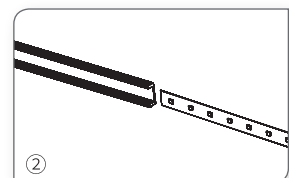
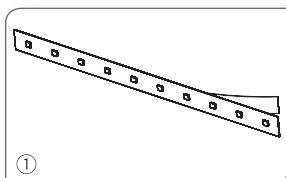
Diagonal pliers



Electric drill

### 2. Installation Methods and Steps

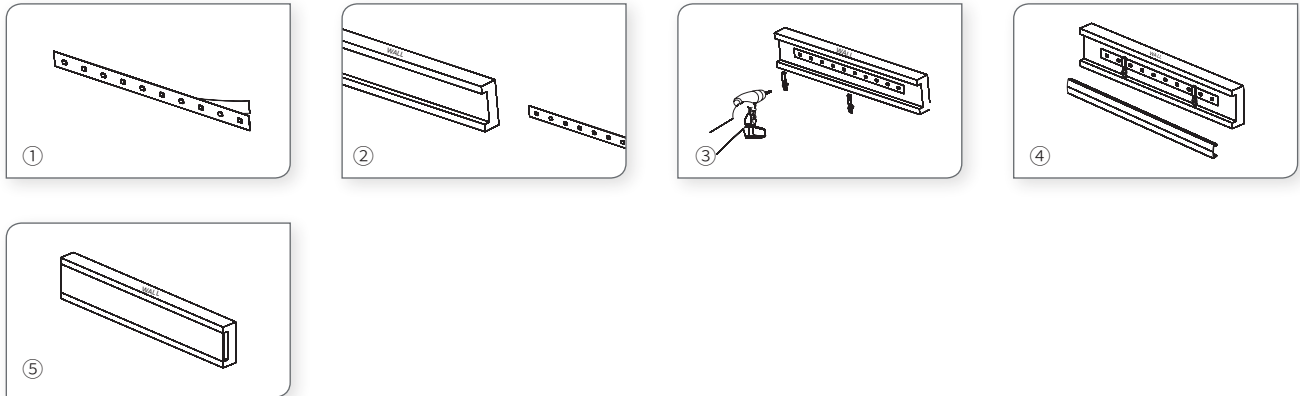
#### Aluminum channel installation



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. 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.

## 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 or 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 (0.75mm<sup>2</sup> 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.