2835 LED STRIP LIGHT

FN-2835A-210/240-24

BLUEVIEW™

Color

Features

1. High density with better linear effect
2. High brightness and high efficacy up to 113Lm/W
3. Great flexibility for proper bending
4. Short LED pitch at 25mm [0.98 inch]
5. Excellent weather resistance and UV resistance
6. Long service life with great lumen maintenance

Application

Channel letters, sign, signage, general lighting and costume etc.

Installation

Fix by 3M self adhesive tape

+86-28-8148 0011
86-28-8148 1258
sales@blueviewled.com

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Specification

Model No.	Light Color	Color Temperature (K)	Beam Angle	Typical Luminous Flux value (lm/m)	Ra	Efficacy (lm/W)	Voltage (V DC)	Power (W/m)
FN-2835A-210-24	Warm White	2800-3200	120°	1512	80+	105	24V	14.4
	Neutral White	4000-4500		1570		109		
	White	5000-5500		1613		112		
	White	6500-7000		1613		112		
	Cool White	8000-9500		1627		113		
FN-2835A-240-24	Warm White	2800-3200	120°	1670	80+	87	24V	19.2
	Neutral White	4000-4500		1747		91		
	White	5000-5500		1785		93		
	White	6500-7000		1785		93		
	Cool White	8000-9500		1747		91		

Other Parameters

Model No.	Quantity (pcs/m)	Standard Packing Length L*W(mm)	Max Run Single ended (m)	Min Cuttable Length(mm)	Working Temperature	Storage Temperature
FN-2835A-210-24	210	5000X10	5.5	33.3	-25~+60℃	-25~+70℃
FN-2835A-240-24	240	5000X10	6.0	25	-25~+60℃	-25~+70℃

NOTE:

1. Test environment temperature : 25±2°C.
2. The above data is 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 with the single color.
4. Different color temperature will make luminous flux different.

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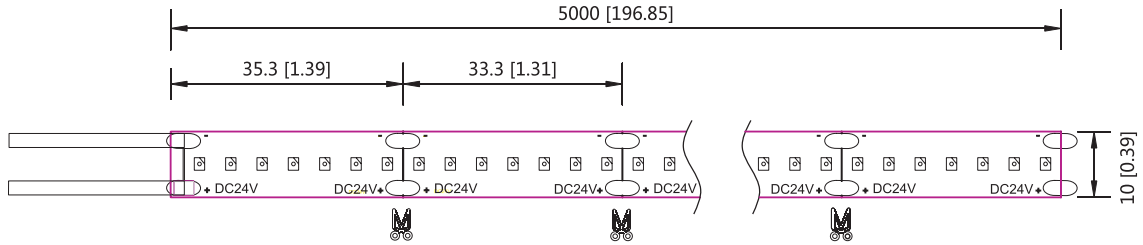
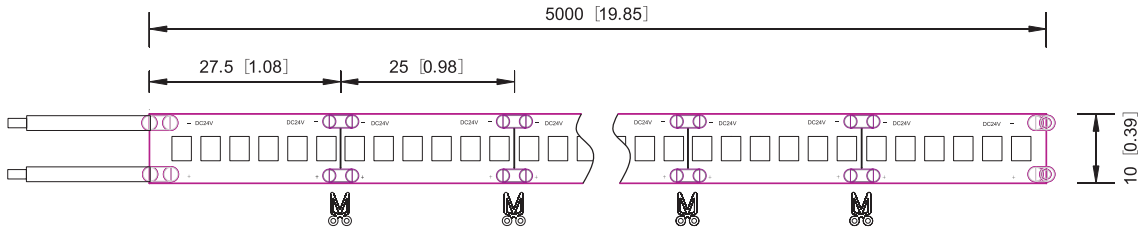
Profile Drawings

Unit:mm

FN-2835A-210-24



FN-2835A-240-24



Working length and power relation table

Model No.	Working Length (m)	Working Current (A)	Working Voltage (VDC)	Working Power (W)	Recommended Power Supply Configuration(W)	Power supplying method
FN-2835A-210-24	1	0.60	24V	14.4	18	Single ended
	2	1.17		28.1	35	Single ended
	3	1.73		41.5	52	Single ended
	4	2.28		54.7	70	Single ended
	5	2.80		67.2	84	Single ended
	10	5.56		133	166	Double ended
FN-2835A-240-24	1	0.82	24V	19.7	25	Single ended
	2	1.62		38.9	50	Single ended
	3	2.35		56.4	70	Single ended
	4	3.02		72.5	90	Single ended
	5	3.62		86.9	110	Single ended
	6	4.15		99.6	120	Single ended

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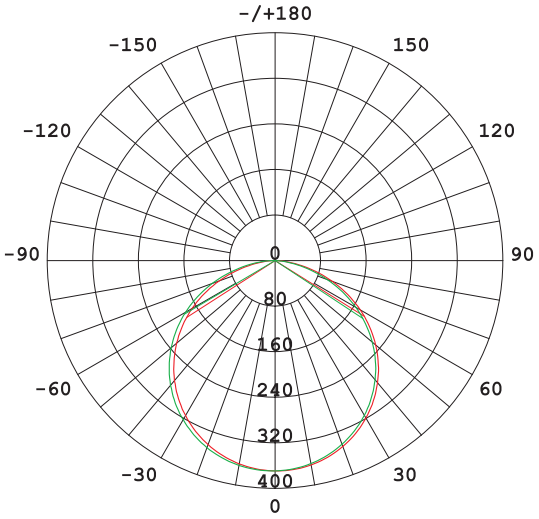
Luminous Intensity Distribution Diagram



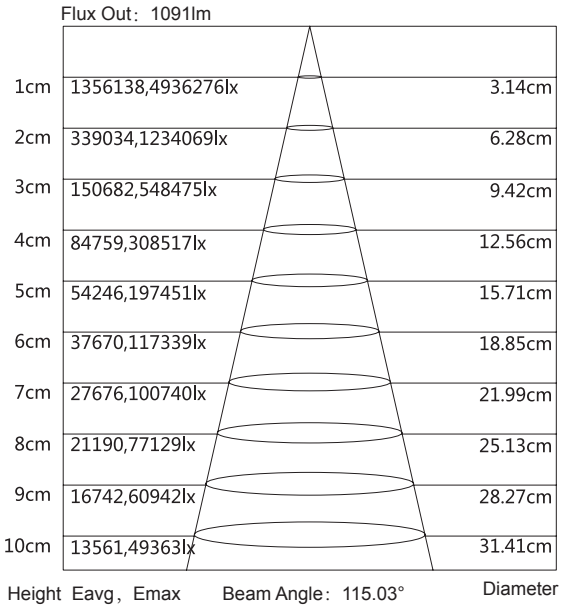
Unit：cd

C0 /180,115.0°

C90/270,115.3°

AVERAGE BEAM ANGLE(50%)：115.2°

Average Illumination



NOTE:

The above two figures are tested with the sample FN-2835A-240-24 at 3000K and Ra80, please contact the sales for data of other color temperatures or specifications.

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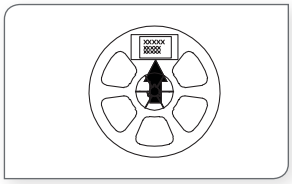
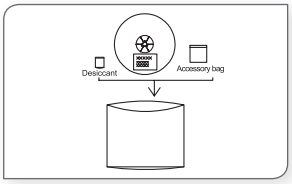
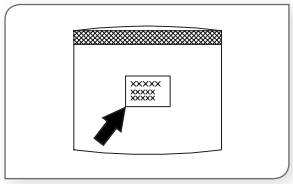
packing



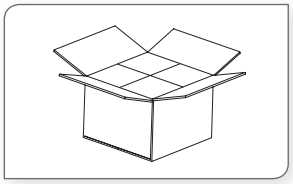
Label the reel;



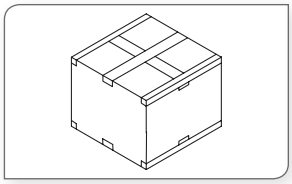
Put reel, accessory bag and desiccant together into static shielding bag;



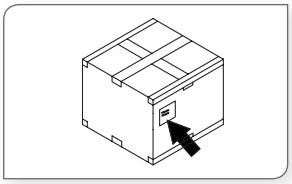
Seal and label the static shielding bag;



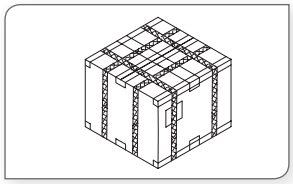
Put the packed static shielding bag into carton box;



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-2835A-210-24	5000X10	550X400X340	5	100	11.0(1±10%)	16.7(1±10%)
FN-2835A-240-24	5000X10	550X400X340	5	100	12.5(1±10%)	19.1(1±10%)

Note:

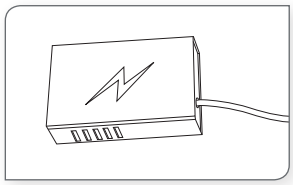
Five meters for a reel and packed in a static shielding bag.

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.

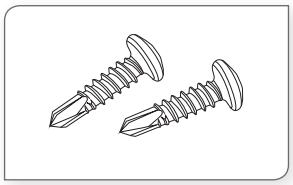
Installation

1.Products and Tools

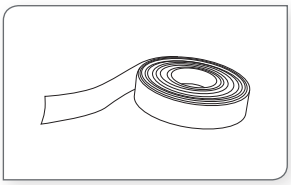
FN-2835A



LED power supply



Self-tapping screw



Insulation Tape

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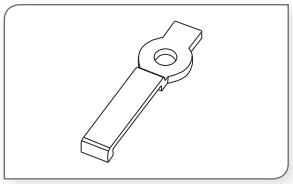
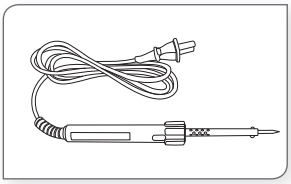
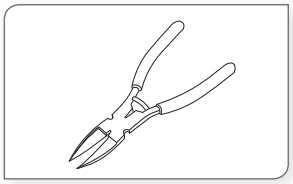
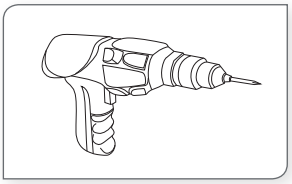

Clips

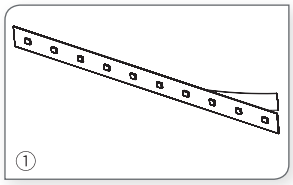

Electric iron

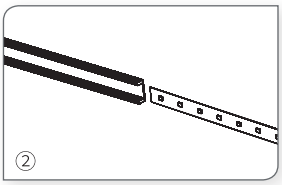

Diagonal pliers

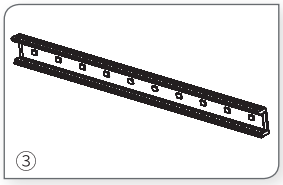

Electric drill

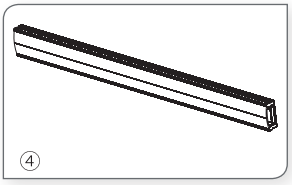
2.Installation Methods and Steps

Aluminum channel installation



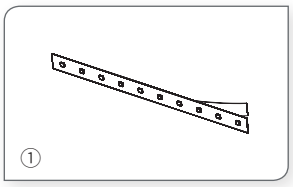


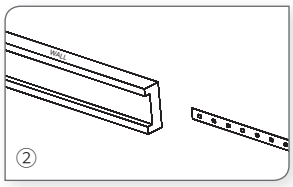


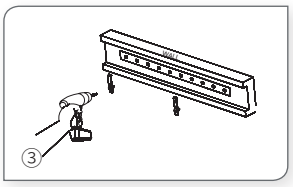


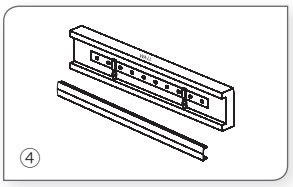
1. Peel away the self adhesive tape on the back of strip.
2. Cut off the excess part based on the installation position.
3. Evenly arrange the strips with appropriate space in the track.
4. Install the cover and end cap.

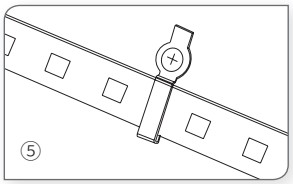
Covered channel installation

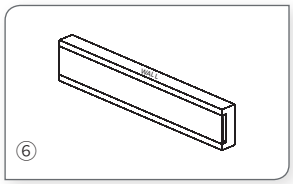












1. Peel away the self adhesive tape on the back of strip.
2. Cut off the excess part based on the installation position.
3. Evenly arrange the strips with appropriate space in the track and fix them with clips.
4. Install the cover and end cap.
5. Clip installation as the figure show
6. Finished

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Attentions before installation

- Before installation, check that the product parameters are consistent with the requirements (Seeing product specificationsor 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.	Fix the short circuit problem.
	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 ±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.

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