

## Features

- High density and better linear effect for high brightness and high efficacy up to 105lm/W
- Slim PCB with great flexibility, easy mounted in curved surface
- Enhanced reliability due to stronger LED bracket.
- Cutable length shortest to 11.1mm [0.44 in] for various application
- Long lifespan with great lumen maintenance
- Four specifications for options
- Excellent weather resistance and UV resistance

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



## Application

Backlit, aluminum profile and other lighting.

## Installation

Fix by 3M self adhesive tape



Optical & Electrical Parameters

Model No.	Light Color	Color Temperature (K)	Beam Angle	Typical Luminous Flux(lm/m)	Ra	Efficacy (lm/W)	Voltage (V DC)	Power (W/m)
FN-2110-266-24	W	2000	120°	1094	90+&95+	80	24V	13.68
		2700		1203		88		
		3000		1272		93		
		3500		1265		92.5		
		4000		1258		92		
		5000		1327		97		
		6000		1381		100		
FN-2110-350-24	W	2000	120°	1181	90+&95+	82	24V	14.4
		2700		1296		90		
		3000		1382		96		
		3500		1397		97		
		4000		1425		99		
		5000		1468		102		
		6000		1497		104		
FN-2110-490-24	W	2000	120°	1379	90+&95+	82.1	24V	16.8
		2700		1495		89		
		3000		1596		95		
		3500		1630		97		
		4000		1663		99		
		5000		1713		102		
		6000		1747		104		
FN-2110-630-24	W	2000	120°	1728	90+&95+	80	24V	21.6
		2700		1876		87		
		3000		1944		90		
		3500		2009		93		
		4000		2052		95		
		5000		2116		98		
		6000		2203		102		



FN2110-700-24	W	2000	120°	1800	90+&95+	75	24V	24
		2700		1970		82		
		3000		2110		88		
		3500		2160		90		
		4000		2185		91		
		5000		2258		94		
		6000		2300		96		

### Other Parameters

Model No.	LED Quantity (pcs/m)	Standard Packing Length L*W(mm)	Max Run Single ended (m)	Min Cuttable Length(mm)	Working Temperature	Storage Temperature
FN-2110-266-24	266	5000X10	4.0	26.3	-20~+60°C	-20~+70°C
FN-2110-350-24	350	5000X10	4.0	20	-20~+60°C	-20~+70°C
FN-2110-490-24	490	5000X10	3.5	14.3	-20~+60°C	-20~+70°C
FN-2110-630-24	630	5000X10	3.0	11.1	-20~+60°C	-20~+70°C
FN-2110-700-24	700	5000X10	2.5	10	-20~+60°C	-20~+70°C

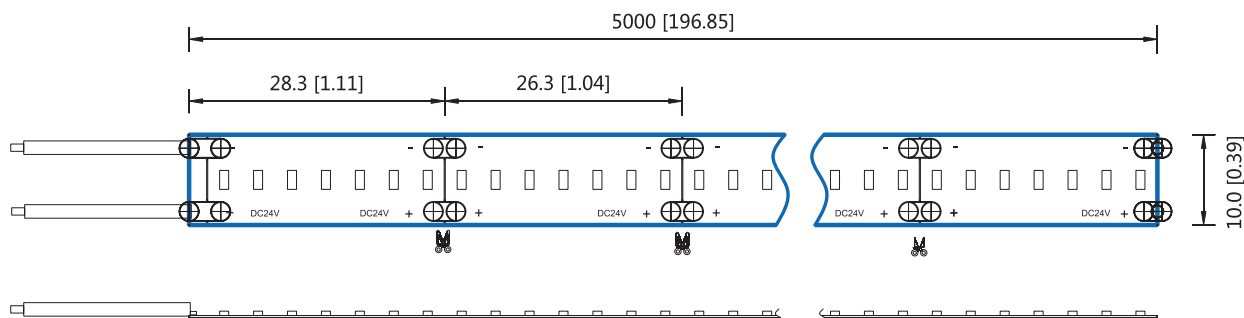
**NOTE:**

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. The luminous flux is tested with single light on.
4. Different color temperature will make luminous flux different.
5. The working temperature here is the range with the heat dissipation of the aluminum track; for bare board, it is -20~50 °C.

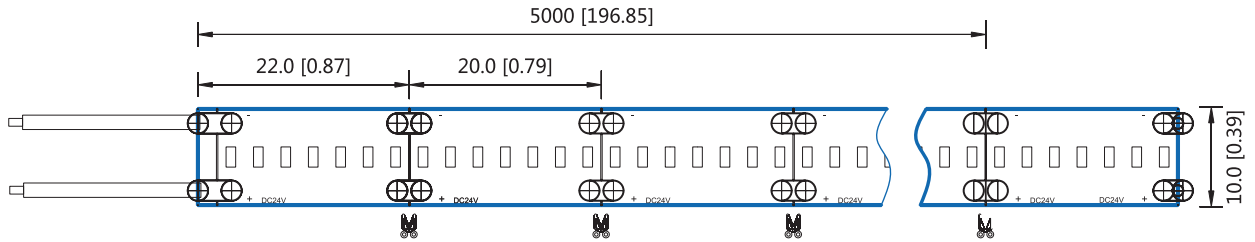
### Profile Drawings

Unit:mm

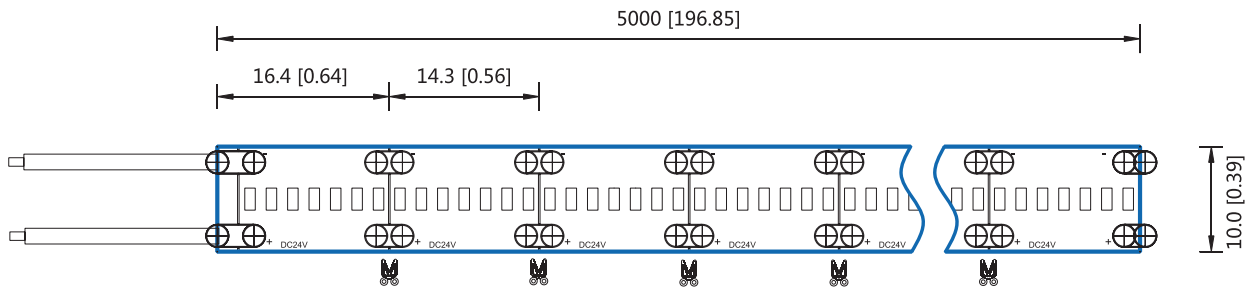
FN-2110-266-24



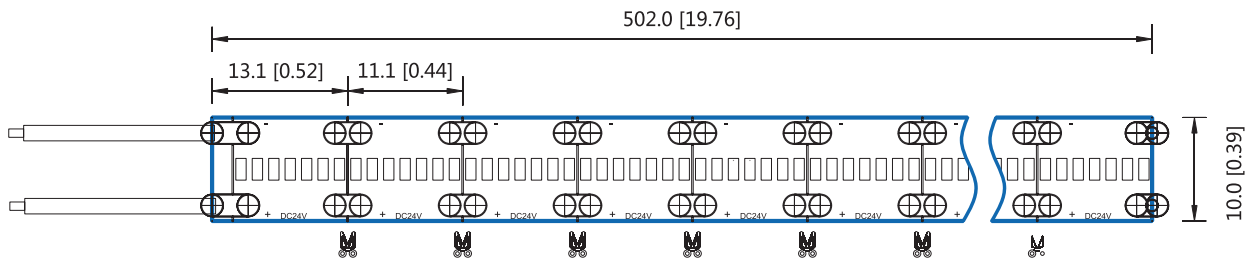
FN-2110-350-24



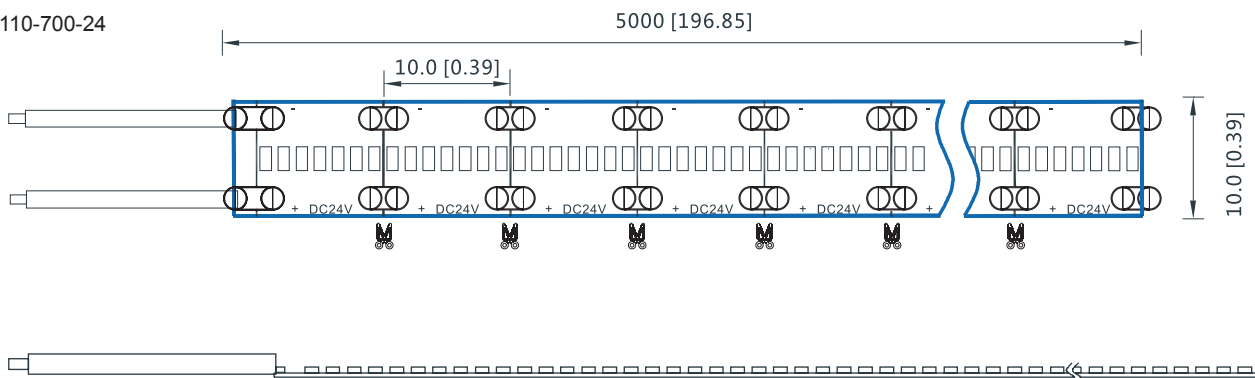
FN-2110-490-24



FN-2110-630-24

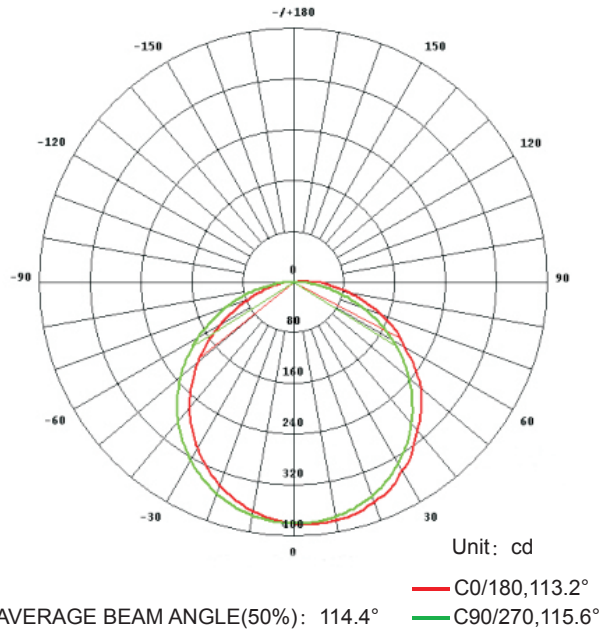


FN-2110-700-24

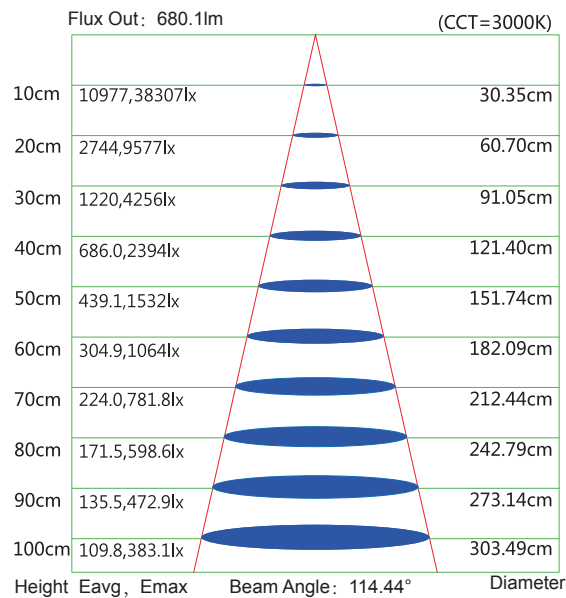


**Note:** Feel free to contact your sales for detailed drawings.

## Luminous Intensity Distribution Diagram

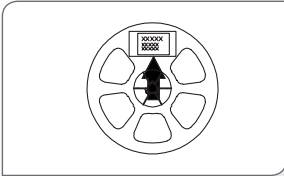


## Average Illumination

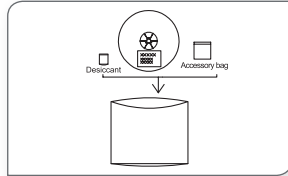


**Note:** the above two figures are tested with the sample FN-2210-266-24 normally on at color temperature 3000K. Welcome to contact with the sales for more product info.

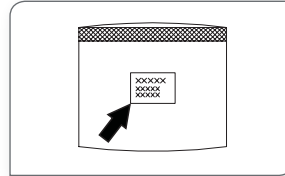
## packing



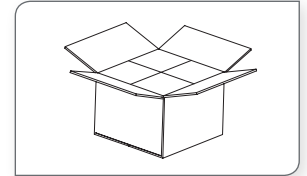
Label the reel;



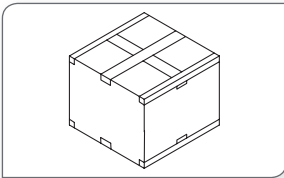
Put reel, accessory bag and desiccant together into static shielding bag;



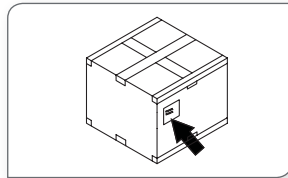
Seal and label the static shielding bag;



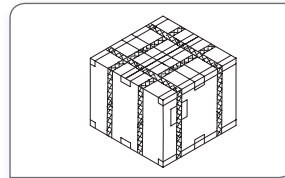
Put the packed static shielding bag into carton box;



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-2110-266-24	5000X10	550X400X340	5	100	10.5(1±10%)	14.55(1±10%)
FN-2110-350-24					10.35(1±10%)	14.85(1±10%)
FN-2110-490-24					10.65(1±10%)	15.15(1±10%)
FN-2110-630-24					10.95(1±10%)	15.45(1±10%)
FN-2110-700-24					11.15(1±10%)	15.65(1±10%)

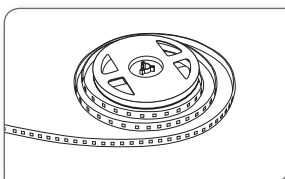
### Note:

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

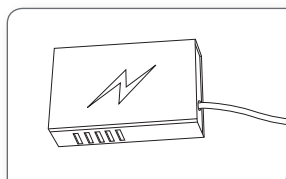
The above quantity and weight are only for the illustrated packaging method. There will be differences in the quantity and weight with other packaging methods.

## Installation

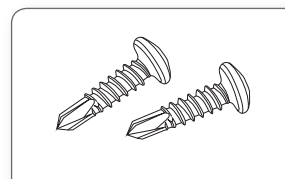
### 1.Products and Tools



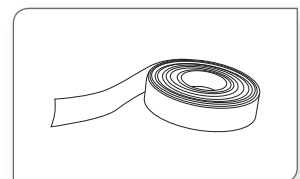
FN2110



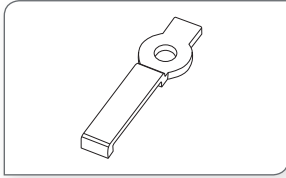
LED power supply



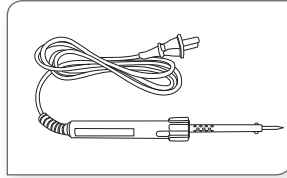
Self-tapping screw



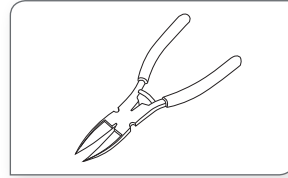
Insulation Tape



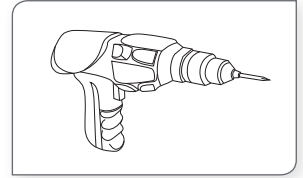
Clips



Electric iron



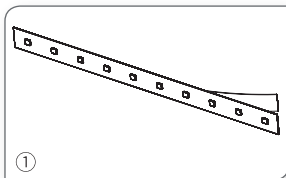
Diagonal pliers



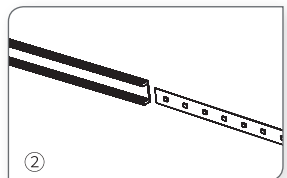
Electric drill

## 2.Installation Methods and Steps

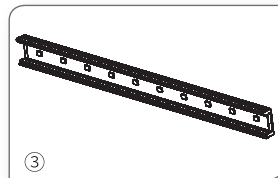
### Aluminum channel installation



①



②



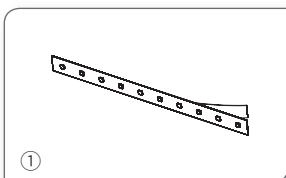
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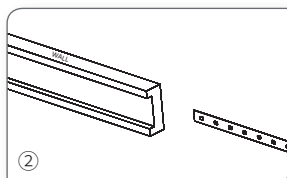
④

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.

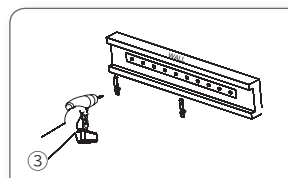
### Covered channel installation



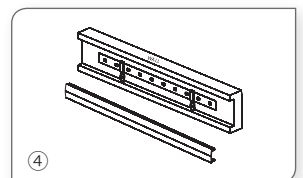
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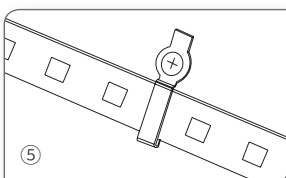
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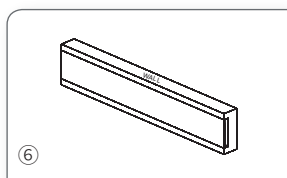
③



④



⑤



⑥

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.

## 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.