TN-5050A-120-24-RGB+3528W

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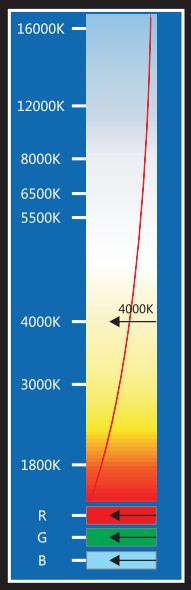
LM-80 | 5050 | 3528 | DC24V | 120° | IP22 | 4years



Features

- RGB(5050) and W(3528) LED in one strip
- Bendable and cuttable every 10cm[3.94] for great flexibility
- Small size to satisfy different requirements
- Create rich color changing effect via controller
- Long lifespan with great lumen maintenance
- Multiple specifications for option and customer settings available

Bending radius: Rmin=20mm

Application

- decorative lighting, cove lighting, etc.

Installation

- Fix by 3M self adhesive tape

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TN-5050A-120-24-RGB+3528W

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Optical & Electrical Parameters

Model No.	Light Color	Color Temperature/ Wavelength(nm/K)	Beam Angle	Ra	Typical Luminous Flux(lm/m)	Efficacy (lm/w)	Voltage (DC V)	Power (W/m)
TN-5050A-120-24-RGB+3528W	R	620-625	120°	--	130	27	24	4.8
	G	520-525		--	326	68		4.8
	B	465-470		--	72	15		4.8
	W	4000		80+	450	102		4.8
	RGB	100000		--	554	38.5		14.4
	RGB+W	12000		--	1017	53		19.2

Other Parameters

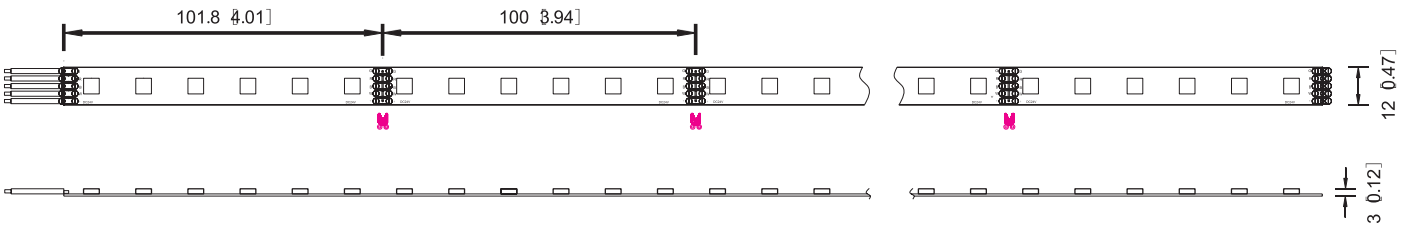
Model No.	LED Quantity (pcs/m)	Product Size L*W(mm)	Max Run (Single Feed)(m)	Min Cuttable length(mm)	Working Temperature	Storage Temperature
TN-5050A-120-24-RGB+3528W	120	5000*12	2.5	100	-20~+60℃	-20~+70℃

NOTE:

- Test environment temperature : 25±2°C.
- 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.
- The luminous flux is tested with single light on.
- Different color temperature will make luminous flux different.

Profile Drawings

Unit:mm



Note:Please ask the sales for detail drawing

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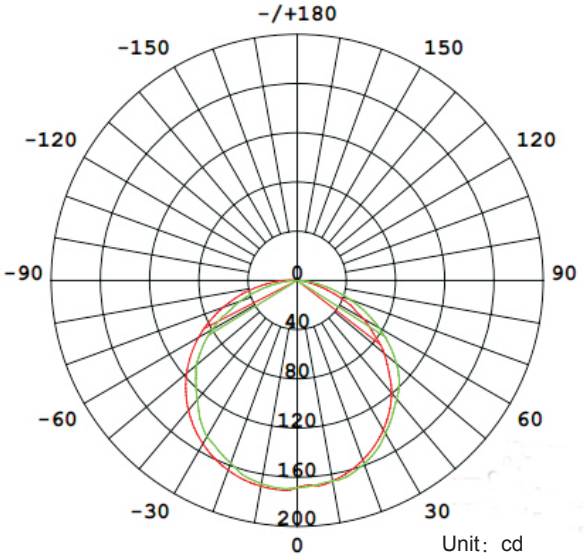
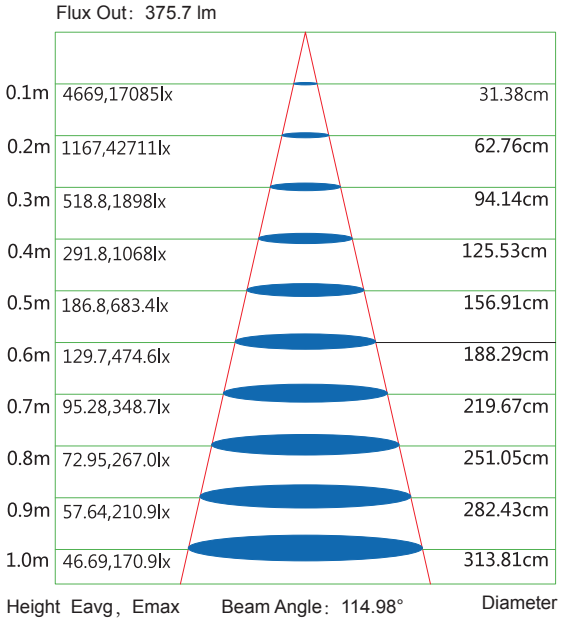
Luminous Intensity Distribution Diagram



AVERAGE BEAM ANGLE(50%)：115.3°

Average Illumination



Note:the above two figures are measurements of the sample 3528 LED with single color on. Please ask the sales for other data.

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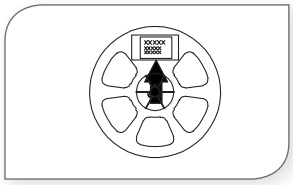
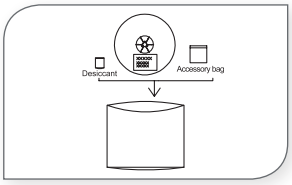
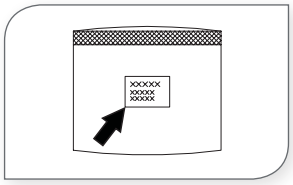
Packaging Information



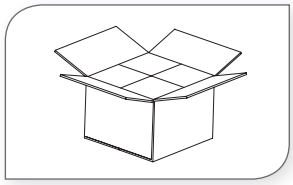
Label the reel;



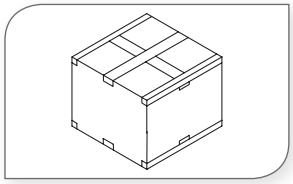
Put reel, accessory bag and desiccant together into static shielding bag;



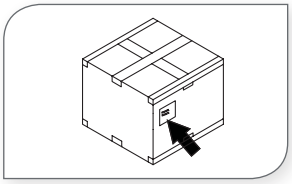
Seal and label the static shielding bag;



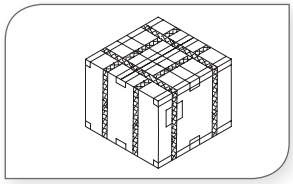
Put the packed static shielding bag into carton box;



Seal the carton box;



Label the box;



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

Packaging information

Model No.	Product Size(mm)	Carton Size (mm)	Meter/ Reel	Reel/ Carton	Net Weight (kg)	Gross Weight (kg)
TN-5050A-120-24-RGB+3528W	5000*12	550*400*340	5	100	12.15(1±10%)	17.05(1±10%)

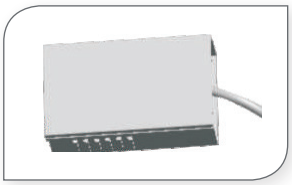
Note:

- 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

TN-5050A-120-24-RGB+3528W



LED power supply

Self-tapping screw

Electrical tape

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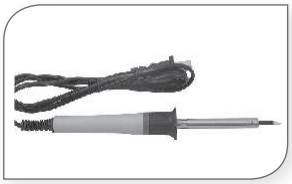
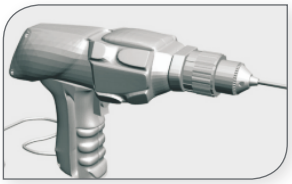
Clips

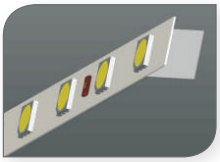

Electric iron

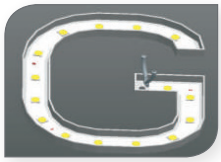

Diagonal pliers


Electric drill

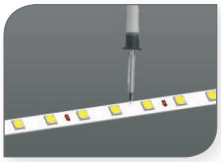
2.Installation Methods and Steps

By self adhesive tape


Peel away the self adhesive tape on the rear.

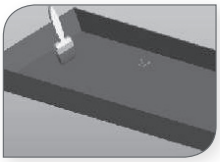

Cut off the excess part based on the installation position.

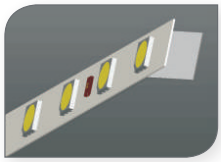

Evenly arrange the strips with appropriate space in the light box.

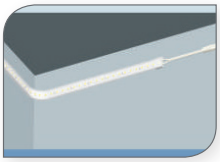

Use soldering iron for welding if need connection.


Connect main line to power supply.

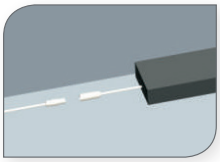
By clips

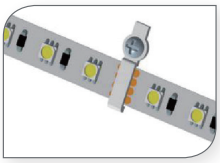

Clean the mounting surface.


Peel away the self adhesive tape on the rear.


Evenly arrange the strips with appropriate space in the light box.


Stick the strips on the signage accordingly.


Connect the strips with compatible power supply.


Finished

Attentions

- 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 led module 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.

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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 LED modules.	Reduce the quantities of LED 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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