

Color: 

## Features

- 3 in 1 RGB SMD 2835 LEDs
- Input voltage at DC12/24V;
- Cuttable to size at marked intervals
- Flexible FPC with 6mm/8mm width options
- Create multiple color possibilities (Over 16 million VIA controller)

## Application

Backlight,font board,outline,indoor and outdoor lighting,recessed landscape lighting etc.

## Installation

By 3M self adhesive tape.

**BLUEVIEW ELEC-OPTIC TECH CO.,LTD**

Tel: +86-28-8148 0011      Fax: +86-28-8148 1258  
Mail: sales@blueviewled.com      Web.: www.blueviewled.com  
Add: No.1000, Section 2, 2nd Konggang Road, Southwest  
Aviation Industrial Development Zone, Chengdu,Sichuan, China.  
Zip code: 610207

Specifications are subject to change without notice.  
Blueview™ 2018– All rights reserved. Made in China.

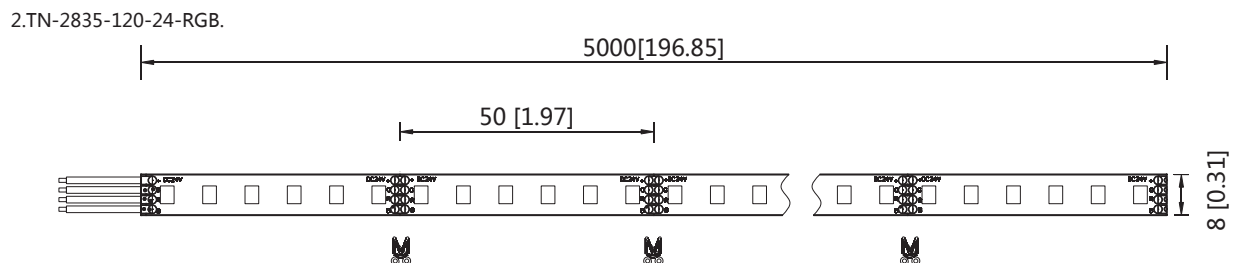
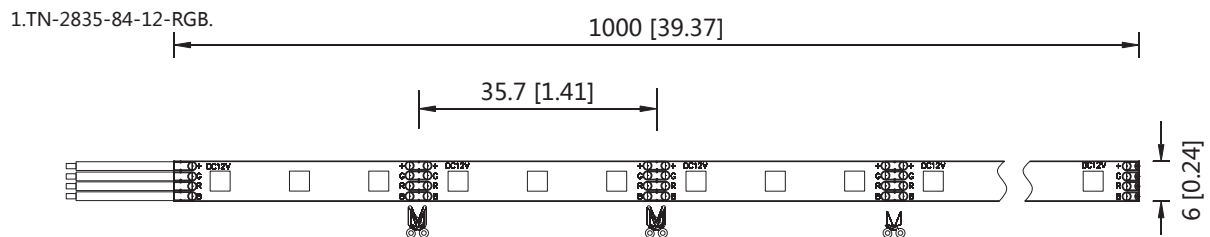
## Specifications

Model No.	TN-2835-84-12-RGB			TN-2835-120-24-RGB		
Light Color	Red	Green	Blue	Red	Green	Blue
Beam Angle(°)	120°			120°		
Wavelength (mm)	620-630	520-530	460-470	620-630	520-530	460-470
Luminous Flux (lm/m)	75-102	190-258	38-25	120-160	300-406	53-71
Power (W/m)	3.06			4.8		
Voltage (DC/V)	12			24		
Total Power (W/m)	10.08			14.4		
LED Quantity (pcs/m)	84			120		
Standard Series Connection(m)	5			5		
Max Run(m)	2			3.5		
Cutting Length (m)	0.0357			0.05		
Working Temperature (°C)	-20~+60			-20~+60		
Storage Temperature (°C)	-20~+70			-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.
  - Luminous flux is tested when lighting on with the single color.
  - Different color temperature will make luminous flux different.

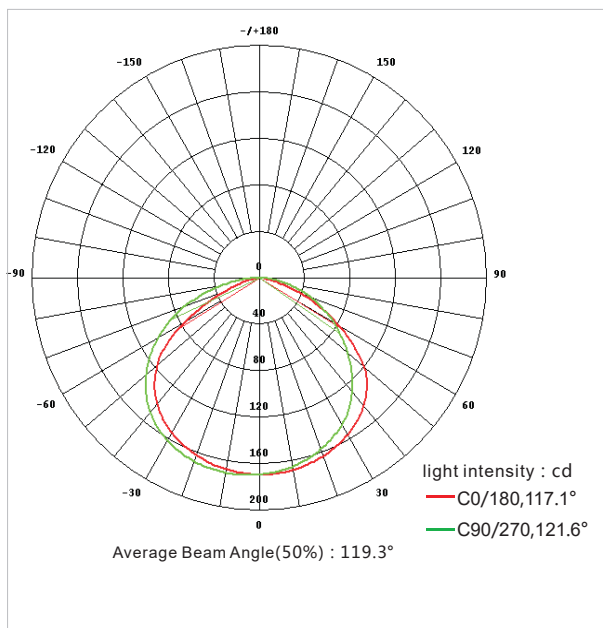
## Profile Drawing

Unit mm[inch]



Note: Please ask the sales for detail drawing.

## Luminous Intensity Distribution Diagram



## Average Illumination

Flux Output : 416.0lm

Height	Eavg , Emax	Beam angle : 117.03°	Diameter
1cm	478115,1698359lx		3.27cm
2cm	119529,424590lx		6.53cm
3cm	53124,188707lx		9.80cm
4cm	29882,106147lx		13.06cm
5cm	19125,67934lx		16.33cm
6cm	13281,47177lx		19.59cm
7cm	9757,34660lx		22.86cm
8cm	7471,26537lx		26.12cm
9cm	5903,20967lx		29.39cm
10cm	4781,16984lx		32.66cm

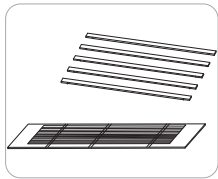
Note: The test sample is FN-2835-120-24-RGB and the test data is based on three colors (RGB) lighting on at the same time.

BLUEVIEW ELEC-OPTIC TECH CO.,LTD

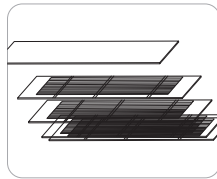
Tel: +86-28-8148 0011 Fax: +86-28-8148 1258  
 Mail: sales@blueviewled.com Web.: www.blueviewled.com  
 Add: No.1000, Section 2, 2nd Konggang Road, Southwest Aviation Industrial Development Zone, Chengdu, Sichuan, China.  
 Zip code: 610207

Specifications are subject to change without notice.  
 Blueview™ 2018– All rights reserved. Made in China.

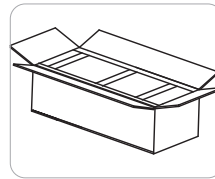
## Packaging Method One



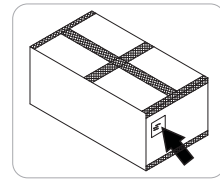
① Place the product on the cardboard and fix.



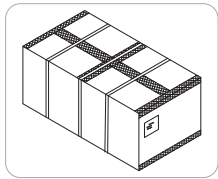
② Stack the cardboard with the top layer empty and tape it;



③ Put the packed products into the carton box;



④ Seal and label the box;



⑤ Use packing belt to pack. Add edge protectors if necessary.

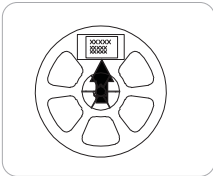
## Packaging Information

Model No.	Product Size(mm)	Carton Size(mm)	Meter/PCS	PCS/CTN	Net Weight(kg)	Gross Weight(kg)
TN-2835-84-12-RGB	1000*6	1100*185*185	1	600	7.5(1±10%)	10.2(1±10%)

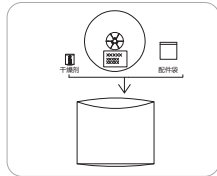
One reel packed in a static shielding bag.

Note: 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.

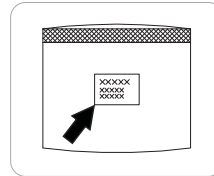
## Packaging Method Two



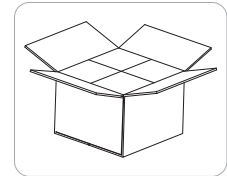
① Label on the reel



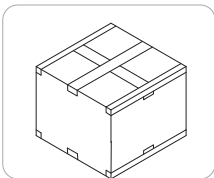
② Put reel, accessory bag and desiccant together into static shielding bag



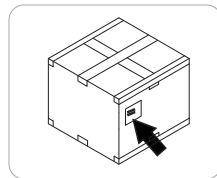
③ Seal and label the static shielding bag



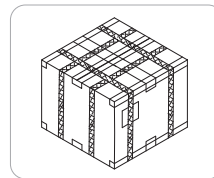
④ Put the packed static shielding bag into carton case



⑤ Seal the carton case



⑥ Label carton case



⑦ Use packing belt to pack. Add edge protectors if necessary

## Packaging Information

Model No	Product SizeL*W(mm)	Carton Case Size(mm)	Meter/Reel	Reel/Box	Net Weight(kg)	Net Weight(kg)
TN-2835-84-12-RGB	5000*6	550*400*340	5	140	7.4(1±10%)	13.8(1±10%)
TN-2835-120-24-RGB	5000*8	550*400*340	5	120	7.4(1±10%)	13.3(1±10%)

One reel packed in a static shielding bag.

Note: 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

### Accessories and Tools



TN2835-RGB



LED power supply



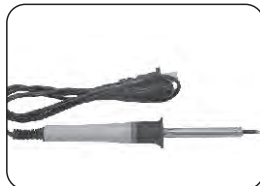
Self-tapping screw



Electrical tape



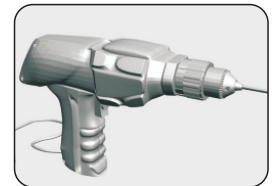
Clips



Electric iron



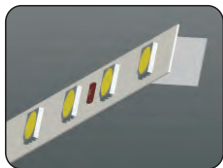
Diagonal pliers



Electric drill

### Installation Methods and Steps

#### By self adhesive tape



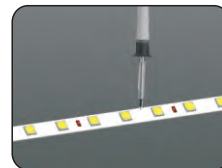
① Peel away the self adhesive tape on the rear.



② Cut off the excess part based on the installation position.



③ Evenly arrange the strips with appropriate space in the light box

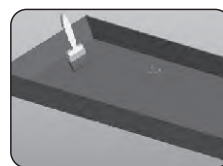


④ Use Soldering iron for welding if need connection.

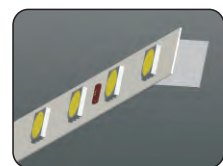


⑤ Connect main line to power supply.

#### Install with clips



① Clean the mounting surface ;



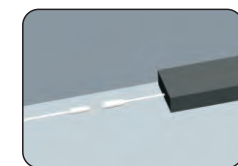
② Peel away the self adhesive tape on the rear of led modules ;



③ Evenly arrange the strips with appropriate space in the light box



④ Install clips and then use screws to secure



⑤ Connect the strips with compatible power supply

### BLUEVIEW ELEC-OPTIC TECH CO.,LTD

Tel: +86-28-8148 0011      Fax: +86-28-8148 1258  
 Mail: sales@blueviewled.com      Web.: www.blueviewled.com  
 Add: No.1000, Section 2, 2nd Konggang Road, Southwest  
 Aviation Industrial Development Zone, Chengdu, Sichuan, China.  
 Zip code: 610207

Specifications are subject to change without notice.  
 Blueview™ 2018– All rights reserved. Made in China.

## Accessories & Tools

- 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 led module and power supply. Otherwise, the
- 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.	Supply electricity.
	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 led module working voltage within $\pm 5\%$ of standard voltage, or keep balance by circuit power consumption.
	Excessive quantities in series connection	Reduce the quantities 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 20AWG (0.5mm<sup>2</sup> 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 as backlight of 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.