



### **Lighting Mode**

## **Features**

- 1. Adopt 4040 RGB 3in1 LED and 2835 white LED SMD
- 2. Flexible and cuttable every 12 LEDs
- 3. Long lifespan with great lumen maintenance
- 4. To achieve rich light effects change with external controller
- 5. Multiple spec optional, customization available

#### Bending radius: Rmin=20mm



## **Application**

Shopping mall, hotels, entertainment clubs etc.

### Installation

Fix by 3M self adhesive tape

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## Specification

Model No.	Light Color	Color Temperature/ Wavelength(K/nm)	Beam Angle	Typical Luminous Flux(lm/m)	Ra	Efficacy (W/m)	Voltage (DC V)	Power (W/m)
	W	2900		681	90+	88	24	8
	R	620-630		161		28		6
TN-4040RGB	G	515-530		368		62		6
+2835W-192-24	-192-24 B	460-470	120°	83		14	24	6
	RGB	100000		566		31		17
	RGB+W	7748		1148	1	44		25

## Other Parameters

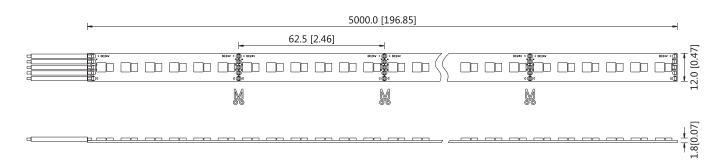
Model No.	LED Quantity (pcs/m)	Product Size L*W(mm)	Max Run Single Feed(m)	Min Cuttable length(mm)	Working Temperature	Storage Temperature
TN-4040RGB+2835W-192-24	192	5000*12	3	62.5	-20~+60°C	-20~+70°C

#### 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. The luminous flux and power tolerance within ±10%.
- 8. Cutting marks see profile drawing below.

## **Profile Drawings**

Unit:mm[inch]



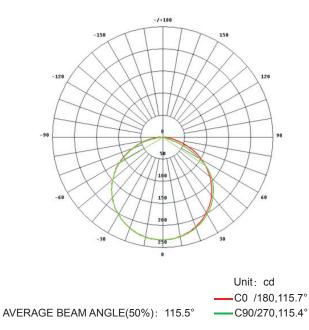
Note:For detail drawing, please consult sales rep.



## Operating Length VS. Electrical Parameters

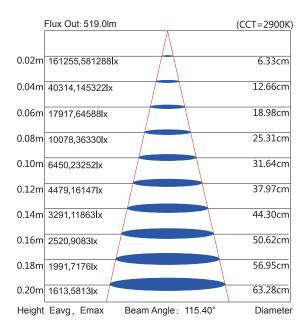
TN-4040RGB+2835W-192-24	Operating Length(m)					
Parameters	1	2	3			
Operating Voltage (DC V)	24.0	24.0	24.0			
Total Current(A)	0.98	2.04	2.88			
Total Power(W)	23.52	48.96	69.12			
Head voltage(V)	23.86	23.82	23.78			
Tail voltage(V)	23.12	22.83	22.48			
Head Current(mA)	63.60	63.40	63.10			
Tail Current(mA)	61.20	57.10	50.90			
Head-to-tail Voltage Drop Rate(%)	3.10	4.16	5.47			
Head-to-tail Current Drop Rate(%)	3.77	9.94	19.33			
Single or Double Feed	Single Feed	Single Feed	Single Feed			

## Luminous Intensity Distribution Diagram



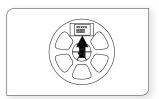


## Average Illumination

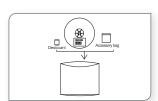


Note:The above two figures are tested with the sample TN4040RGB+2835W-192-24 at 2900K,for other data,plesse consult sales rep.

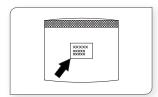
## packing



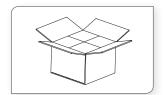
Label the reel;



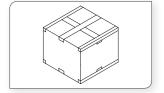
Put reel, accessory bag and desiccant together into static shielding bag;



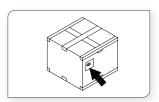
Seal and label the static shielding bag;



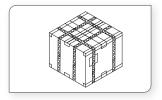
Put the packed static shielding bag into carton box;



Seal the carton box;



Label the box;



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



#### **Packaging information**

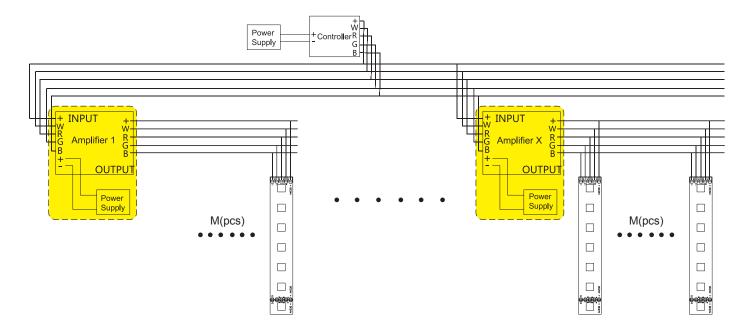
Model No.	Product Size L*W(mm)	Carton Size(mm)	Meter/Reel	Reel/Carton	Net Weight(kg)	Gross Weight(kg)
TN-4040RGB+2835W-192-24	5000*12	550*400*340	5	100	12.75(1±10%)	17.55(1±10%)

#### 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.

## Connection Diagram & Calculation Method between Product and Controller



Amplifier power supply rated power (W): P Product rated power (W): P(strip) Amplifier load:M(pcs) Product max run:MAX

$$M = \frac{P \times 0.8}{P_{\text{(strip)}} \times MAX}$$

For example: the product is TN-4040RGB+2835W-192-24, P(strip)=25W/m, the max run(single feed) MAX=3m, the power supply is 400W,

#### Amplifier load:

$$M = \frac{P \times 0.8}{P_{\text{(strip)}} \times MAX} = \frac{400 \times 0.8}{25X3} \doteq 4(pcs)$$

#### Note

- 1. The controller's power supply must be consistent with the controller's power requirements.
- 2. The amplifier must be added to drive the product if the controller is more than 20 meters away from the product, see above.

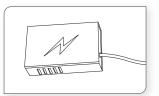


## Installation

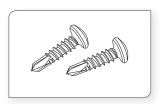
#### 1.Products and Tools



TN-4040RGB+2835W-192-24



LED power supply



Self-tapping screw



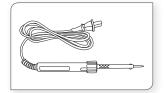
Diagonal pliers



Mounting clips



Electric drill



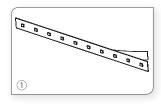
Electric iron

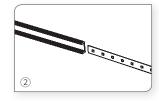


Insulation Tape

#### 2.Installation Methods and Steps

#### Aluminum channel installation



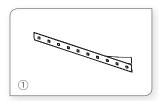


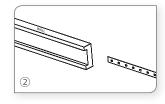


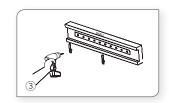


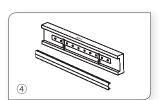
- 1. Peel away the self adhesive tape on the back of strip.
- 2. Cut off the excess part based on the installation position.
- 3. Evenly arrange the strips with appropriate space in the track.
- 4. Install the cover and end cap.

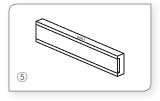
### Covered channel installation











- 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.

Add:No.1000,Section 2,2nd Konggang Road, Southwest

5. Finished



#### CCT/COLOR CONTROLLABLE SERIES

## TN-4040RGB+2835W-192-24



### 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				
	No electric supply.	Power on				
All LEDs can not light 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.					
	Some switching mode power supplies are not powered.	Check the power supply				
LEDs can not light on partly.	Power supply line error.	system to fix it.				
	Mistaken wire connection of some of products	Correctly connection				
	Power overloaded.	Replace with more powerful power				
Brightness of LED is inconsistent tor insufficient.	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 series connection to meet requireme				
	Connection point fault.	Remove bad connection point.				
LED flicker.	Switching power supply failure.	Replace a new power supply.				
	Wrong Installation or use of products	Please follow the instructions				

#### **A** 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.