



### **Features**

- High brightness and lumen efficiency
- Great linear effect
- Flexible and cuttable, can be mounted on cove surface
- Long service life with excellent lumen maintenance
- 96 leds and 120 leds per meter for option

Bending radius: Rmin=20mm



# **Application**

Suitable for shopping mall, hotel and entertainment decoration.

## Installation

Fix by 3M self adhesive tape

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# **Optical & Electrical Parameters**

Model No.	Light Color	Color Temperature/ Wavelength(K/nm)	Beam Angle	Ra	Typical Luminous Flux(lm/m)	Efficacy (lm/w)	Voltage (DC V)	Power (W/m)
	R	615-630	120°		169	33	24	5.2
TN4040-96-24-	G	515-530			307	60		5.2
RGB	В	460-470			64	12.4		5.2
	RGB	100000			492	32		15.6
	R	615-630	120°		211	33	24	6.4
TN4040-120-24- RGB	G	515-530			384	60		6.4
	В	460-470			87	13.5		6.4
	RGB	100000			614	32		19.2

# Temperature Related Parameters(Normal Working)

Model No.	Power(W)	No Brightness Difference MAX(m)	UL Max Run (Single Feed) (m)	TA(°C )	Operating Temp MAXTc(°C)
TN4040-96-24-RGB	15.6	3	5.5	-20~+60°C	80°C
TN4040-120-24-RGB	19.2	4	4.5	-20~+60°C	80°C

### Other Parameters

Model No.	LED Quantity (pcs/m)	Min Cuttable length(mm)	Storage Temperature	
TN4040-96-24-RGB	96	62.5	-20~+70°C	
TN4040-120-24-RGB	120	50	-20~+70°C	

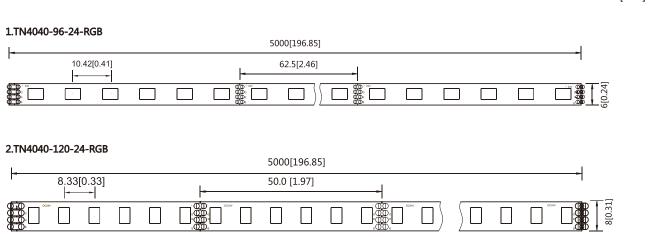
#### NOTE:

- Test environment temperature : 25±2°C.
- Figures above are typical figures. Actual figures could be different with typical figures, and the data is subject to change without notice.
- Luminous flux above is corresponding color light on tested result
- Different color temperature will make luminous flux different.
- UL max run refers to operating length at UL class II @100W.24V.
- Power tolerance within ±10%.
- Cutting marks see profile drawing below.



## **Profile Drawings**





Note:For detail drawing, please consult sales rep.

# Operating Length VS. Electrical Parameters

T4040-96-24- RGB		Орє	erating Ler (m)				
Parameters	1	2	3	4	5		
Operating Voltage(DC V)	24.0						
Total Current(A)	0.640	1.210	1.670	2.040	2.310		
Total Power(W)	15.6	29.1	40.1	49.0	55.5		
Head voltage(V)	23.91	23.84	23.76	23.70	23.69		
Tail voltage (V)	23.44	22.89	22.17	21.38	20.38		
Head Current(mA)	39.8	39.2	38.6	38.8	38.5		
Tail Current (mA)	37.6	34.5	31.5	27.0	22.9		
Head-to-tail Voltage Drop Rate(%)	1.97	3.98	6.69	10.17	13.97		
Head-to-tail Current Drop Rate(%)	5.66	12.17	18.40	30.64	40.64		
More power needed	NO	NO	NO	YES	YES		

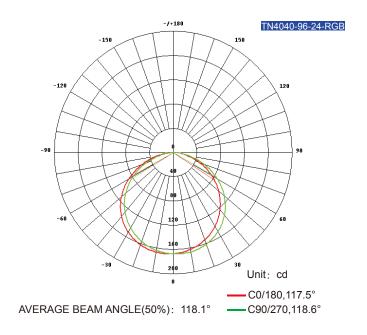
T4040-120- 24-RGB	Operating Lengtl Single Feed(m			gth in (m)			
Parameters	1	2	3	4	5		
Operating Voltage(DC V)	24.0						
Total Current(A)	0.800	1.520	2.190	2.830	3.330		
Total Power(W)	19.2	36.5	52.6	68.0	78.0		
Head voltage(V)	23.91	23.84	23.80	23.74	23.66		
Tail voltage (V)	23.52	23.13	22.86	22.41	21.74		
Head Current(mA)	39.8	39.3	39.0	38.7	38.7		
Tail Current (mA)	38.1	36.5	34.3	32.0	29.3		
Head-to-tail Voltage Drop Rate(%)	1.97	2.98	3.95	5.6	8.11		
Head-to-tail Current Drop Rate(%)	4.28	6.99	12.26	17.44	24.37		
More power needed	NO	NO	NO	NO	YES		

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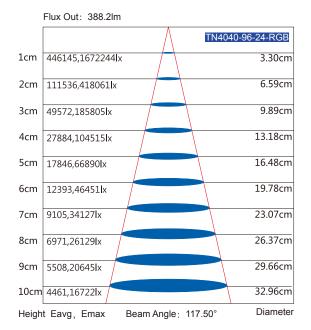
<sup>• +86-28-8148 0011</sup> 



# **Luminous Intensity Distribution Diagram**



# Average Illumination

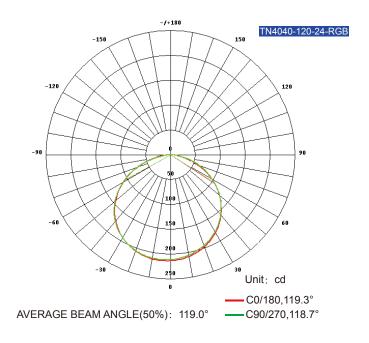


Note: If you need other data, feel free to contact sales.

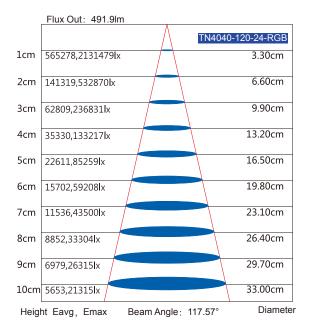




# **Luminous Intensity Distribution Diagram**



# Average Illumination

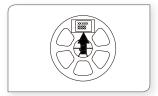


Note: If you need other data, feel free to contact sales.





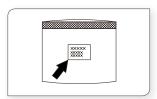
# **Packaging**



Label the reel;



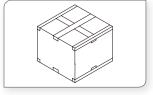
Put reel, accessory bag and desiccant together into static shielding bag;



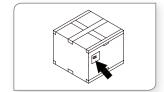
Seal and label the static shielding bag;



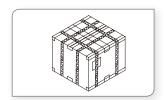
Put the packed static shielding bag into carton box;



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)
TN4040-96-24-RGB	5000*6	550*400*340	5	140	10.64(1±10%)	13.85(1±10%)
TN4040-120-24-RGB	5000*8	550*400*340	5	120	12.05(1±10%)	15.55(1±10%)

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### NOTE:

Five meters per reel, packed in the static shielding bag.

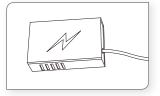
The above quantity and weight are only for the illustrated packaging method. There will be differences in the quantity and weight with other packaging methods.

## Installation

#### 1.Products and Tools



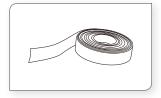
FN2835-XX-XX-X



LED power supply



Self-tapping screw

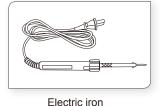


Insulation Tape

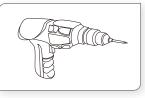
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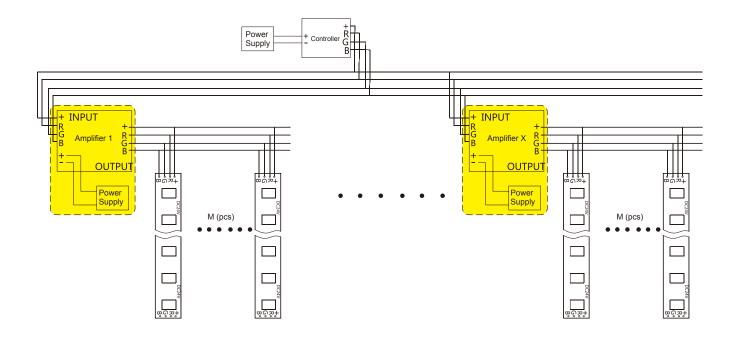




Diagonal pliers

#### Electric drill

### 2.Connection Diagram between Product and Controller & Calculation Method



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

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

For example: the product is TN4040-120-24-RGB, P(strip)=19.2W/m, the max run MAX=4m, the power supply is 400W, so the amplifier load load is

$$M = \frac{P \times 0.8}{P(strip) \times MAX} = \frac{400 \times 0.8}{19.2 \times 4} = 4 \text{ (pcs)}$$

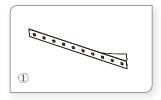
#### Note:

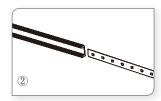
- 1. The controller's power supply must be consistent with the controller's power requirements.
- 2. The amplifier must be added to drive the product if the controller is more than 20 meters away from the product, see above.



### 3.Installation Steps

#### Aluminum channel installation



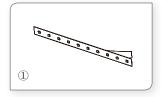


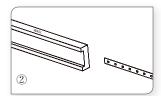


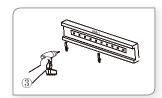


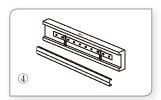
- 1. Peel away the self adhesive tape on the back of strip.
- 2. Cut off the excess part based on the installation position.
- 3. Evenly arrange the strips with appropriate space in the track.
- 4. Install the cover and end cap.

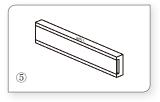
#### Covered channel installation











- 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. Finished



## **Attentions**

- 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 product and then the power supply) to avoid short circuit.
- Make sure the correct connection of positive and negative poles between the product 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.	Fix the short circuit problem.				
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.				
ilgrit on.	Wrong connection of power supply.	The the short directly problem.				
	Some switching mode power supplies are not powered.	Check the power supply system to fix it.				
LEDs can not light on partly.	Power supply line error.	,				
	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 in series connection to meet requirement.				
	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				



### 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.