GDS LED PROFILES ACCESSORIES
GRAPHIC. DISPLAY. SYSTEMS

# PRODUCT DATA SHEET

MODE : 24V-5050-60-12MM
COLOR : RGBW

5000*12,60LED'S
CONSTANT VOLTAGE 24DC FLEXIBLE STRIP LIGHT


GDS-RGBW(W)-NW

UL | CE | RoHS | 5050 SMD | 60 LEDS | LED STRIP | DC 24V | IP 20 | 3 YEARS WARRANTY

## PRODUCT FEATURES

- LOW CARBON ENVIRONMENTAL PROTECTION, ENERGY SAVING EFFECT IS MORE SIGNIFICANT.
- ADOPT SMD5050,24VDC LOW VOLTAGE.
- ADOPT FRONT 1OZ BACK 1OZ FPC BOARD, HIGH HEAT DISSIPATION, LOW LIGHT FAILURE.
- GOOD COLOR CONSISTENCY.
- UL & CE & ROHS APPROVED.
- WARRANTY 3 YEARS.

## APPLICATIONS

- HOTELS, SHOPPING MALLS, HOMES, CABINETS, DISPLAY RACKS, INDIRECT LIGHTING, DARK TROUGH LIGHTING, CONTOURING, DECORATIVE LIGHTING,ETC,.

## TECHNICAL PARAMETERS

| Item No,. | LED Color | CCT（K） Wavelength(nm） | CRI Ra | Color tolerance SDCM | Bean Angle（°） | Luminous Flux （lm/m） | Lighting effect (lm/W) | Input Voltage （VDC） | Current (A) | | Power (W) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | 1m | 5m | 1m | 5m |
| GDS-RGBW-NW 5X60 | RGB White | 6500 | ≥80 | ≤5 | 60 | 840 | 14 | 24 | 0.6 | 2.9 | 14 | 70 |
| GDS-RGBWW -NW 5X60 | RGB warm White | 3000 | ≥80 | ≤5 | 60 | 840 | 14 | 24 | 0.6 | 2.9 | 14 | 70 |

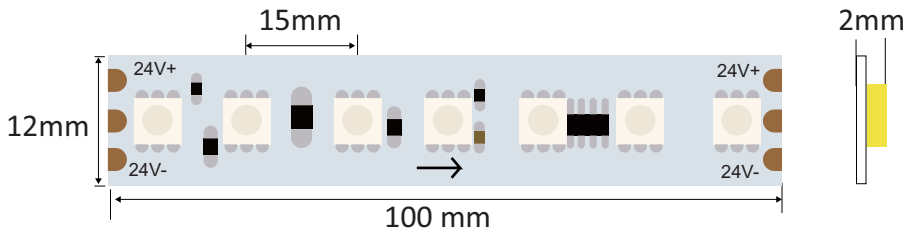
## OTHER PARAMETERS

| Item No,. | IP Rate | Working temperature (℃) | Storage temperature (℃) | Standard Length (m) | Max connection (m) | LLED Qty (pcs/m) | Weight (g/m) | Min cut unit（mm） |
|---|---|---|---|---|---|---|---|---|
| GDS-RGBW( W）-NW 5X60 | IP20 | -25~+60 | -25~+70 | 5 | 10 | 60 | 26 | 50（24V） |

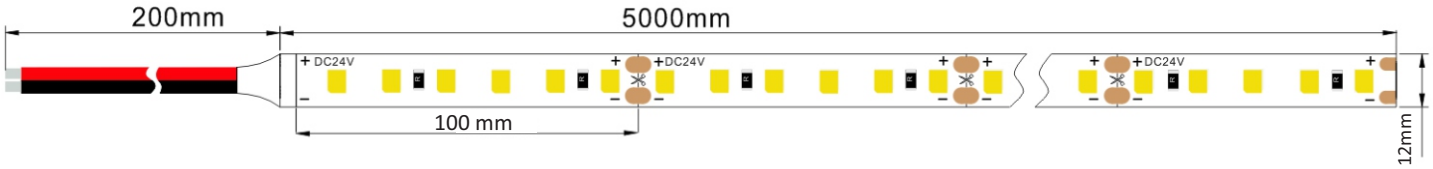
Remark
1 Test environment temperature is 25±2°C (normal temperature)
2 The above data is typical, the actual parameters of the product may differ from the typical data; the data is subject to change without notice
3 The above "-" indicates that the parameters of this product are not required at the moment
4 Power is greater than 15W/m, need to cooperate with the profile heat dissipation

## DIMENSION

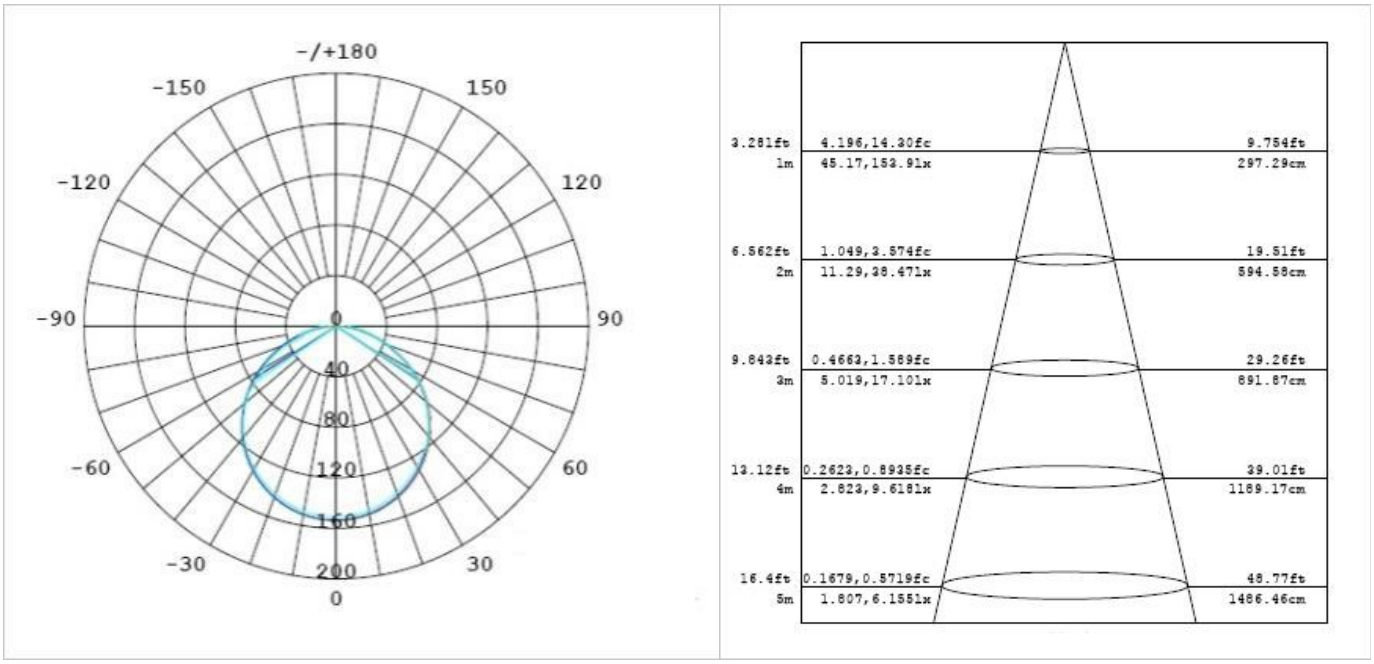
UNIT IN MM



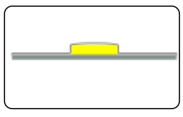
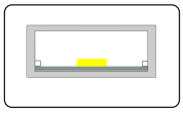
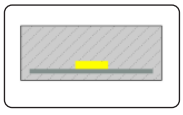

| Length/Reel | Width | Height | LED Spacing | Min. Cutting |
|---|---|---|---|---|
| 5000mm | 12mm | 2mm | 15mm | Every 100mm (6LEDs) |



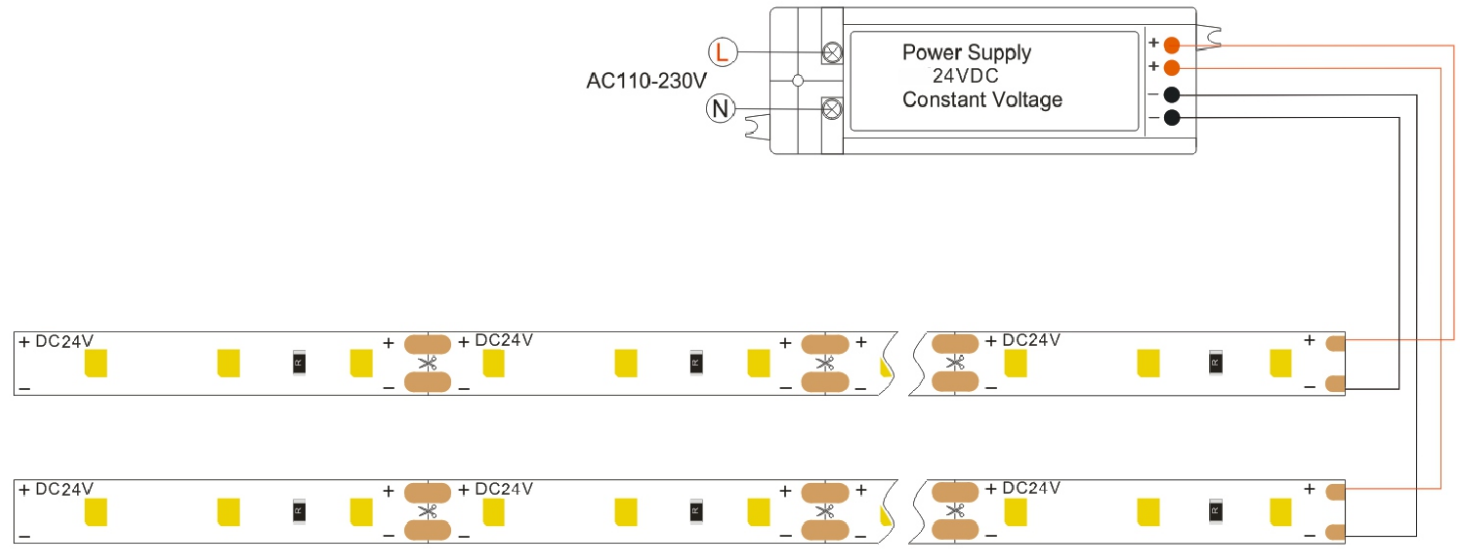
## LIGHT DISTRIBUTION CURVE / ISOLUX DIAGRAM



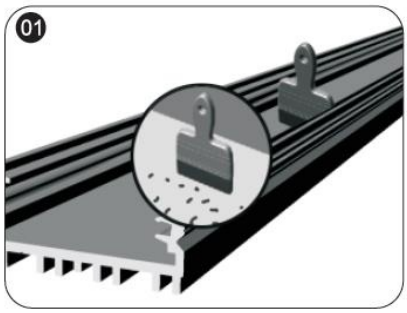

## IP RATING OPTION

| IP Rate | Dimension | Colors | Lumen output rate |
|---|---|---|---|
| IP20  | 5000*10*1.5 | 2700K/3000K/4000K/ 5000K/6500K/9000K | 100% |
| IP54  | 5000*10*1.7 | 2700K/3000K/4000K/ 5000K/6500K/9000K | 98% |
| IP54B  | 5000*12.5*4 | 2700K/3000K/4000K/ 5000K/6500K/90000K | 95% |
| IP68B  | 5000*12.5*4 | 2700K/3000K/4000K/ 5000K/6500K/9000K | 90% |

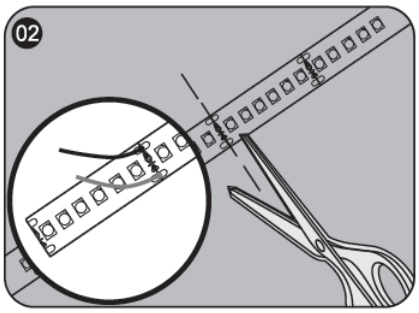
# INSTALLATION



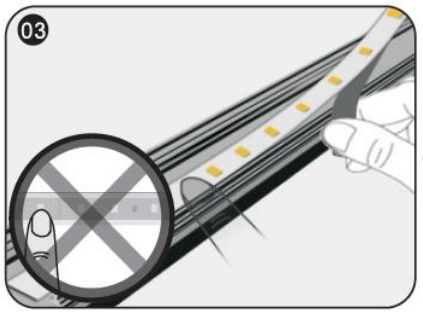

## INSTALLATION STEP INSTRUCTIONS AND PRECAUTIONS




◎ Clean up debris on the mounting surface to ensure surface cleaning

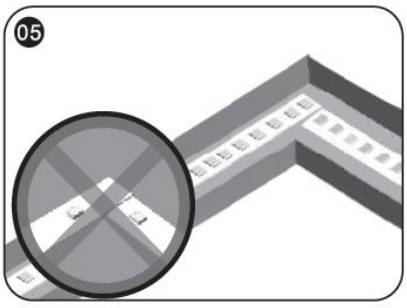



◎ Measure the length of the strip to be installed, and cut the extra LED strip along the scissors marking line. If you need to increase the connecting wire, please weld it at the next scissors mark at the cut.

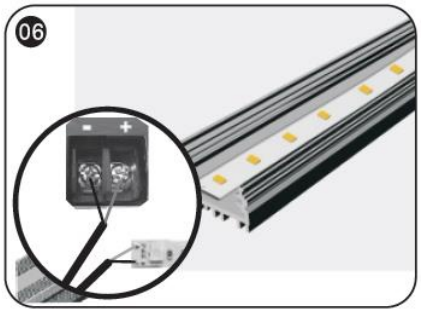



◎ When attaching the led strip, be careful to peel while sticking. It is strictly forbidden to tear off all the release paper at once to prevent the led strip from sticking to each other.
△ Note: Do not press the lamp beads!


◎ The position of the led where scissors are in contact with the bottom of the section need to isolate with sticker tape, so as to avoid short circuit.

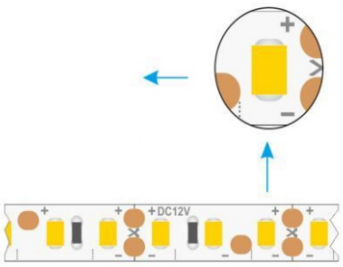



◎ The light strip at the corner is installed as shown above
△ Note: Do not fold into a right angle Direct bending on the surface of the profile is strictly prohibited




◎ After the strip is installed, it is connected to the power output. Insulation, short - circuit protection and corrosion protection should be done at the terminals

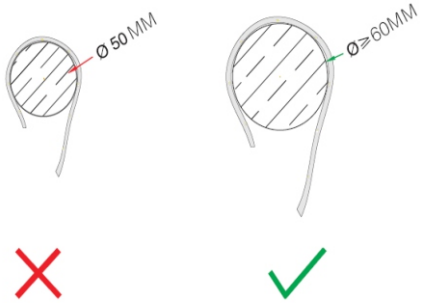
01




◎ Don’t bend the LED position

02

◎ Don’t twist the led strips




◎ Don’t wrap objects less than 5cm in diameter

# COMMON FAULTS OF PRODUCTS AND TROUBLESHOOTING METHODS

| Fault phenomenon | Potential causes | Solution |
|---|---|---|
| All LEDs are off | 1、The power is off. | power transmission |
| | 2、Automatic protection of the power supply after the output of the switching power supply is open or shorted. | trouble shooting and recovering the power supply |
| | 3、LED Strips with power supply terminal polarity reverse | Check the wire connection to ensure correct connection of positive and negative wire |
| Some of the LEDs are off | 1、Part of the switching power supply is not powered | Check the power supply system and troubleshoot |
| | 2、Part of the electricity supply line error | |
| | 3、Partial led strips with reverse polarity connection | Correct connection |
| LED brightness is not the same or the brightness is not enough | 1、Power overload | Replace the power supply with a larger power according to the load |
| | 2、Switching power supply line or circuit loss is too large | Ensure that the operating voltage of the led strips is within ±5% of the rated voltage<br><br>1. Cut the length of the wire between the strip and the power cord or use wires with larger diameter;<br>2. Ensure that the number of each led strip is less than or equal to the maximum allowable cascade ;And make each strip with a similar connection. |
| | 3、Over connection of LED Strips | Adjust the number of strips for each power supply and to meet the maximum connection requirements for each power supply. |
| LED flashing | 1、Poor contact at the wiring point | Find out the bad points and troubleshoot |
| | 2、Switching power supply failure | Replace the switching power supply |

# COMMON FAULTS OF PRODUCTS AND TROUBLESHOOTING METHODS

◎ If the external cord of the product is damaged, it should be replaced by the manufacturer or its service agent or a similarly qualified person to avoid danger.
◎ For the specific installation and precautions of the product, please refer to the product manual.
◎ The data above in this specification is based on standard products. Actual shipments may be a little difference.Please refer to the actual product.
◎ All product drawings in this specification are schematic diagrams, and actual shipments may be a little difference.Please refer to the actual product.