



Version: A1.4

## Features

1. Adopt integrated lens;
2. Use optical grade transparent PC material;
3. A single module can be cut
4. Support customization;
5. Support PWM, 0-10V, DALI and DMX dimming

## Application

Suitable for light boxes with a depth of more than 4cm, mini letters, outdoor lighting, etc.

## Installation

Fix by adhesive tape



## Specification

| Model No. | Light Color | Color Temperature(K) | Beam Angle | Typical Luminous Flux value(lm/pcs) | Ra  | Efficacy (lm/W) | Voltage (V DC) | Power (W/pcs) |
|-----------|-------------|----------------------|------------|-------------------------------------|-----|-----------------|----------------|---------------|
| SS308     | W           | 2800-3200            | 145°       | 50                                  | 80+ | 105             | 12             | 0.48          |
|           |             | 3800-4200            |            | 51                                  |     | 106             |                |               |
|           |             | 4800-5300            |            | 51                                  |     | 106             |                |               |
|           |             | 6000-6700            |            | 51                                  |     | 106             |                |               |
|           |             | 8000-10000           |            | 50                                  |     | 105             |                |               |

## Other Parameters

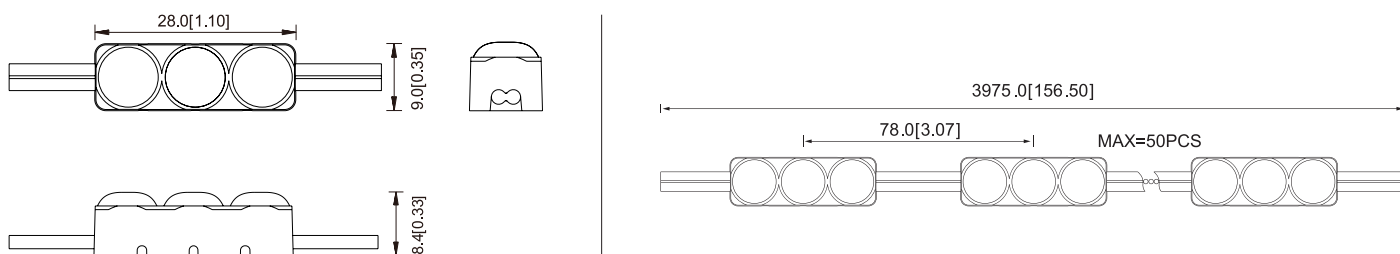
| Model No. | Quantity (LED Qty/pc) | Product Size L*W*H(mm) | Standard Run (pcs) | Max Run(single feed) (pcs) | Working Temperature | Storage Temperature |
|-----------|-----------------------|------------------------|--------------------|----------------------------|---------------------|---------------------|
| SS308     | 3                     | 28*9*8.4               | 50                 | 50                         | -20~+60℃            | -20~+70℃            |

## NOTE:

1. Test environment temperature : 25±2℃.
2. Figures above are typical figures. Actual figures could be different with typical figures, and the data is subject to change without notice.
3. Different color temperature will make luminous flux different.
4. Power tolerance within ±10%.
5. The "Quantity" above means the LED quantity of single module

## Profile Drawings

Unit: mm[inch]



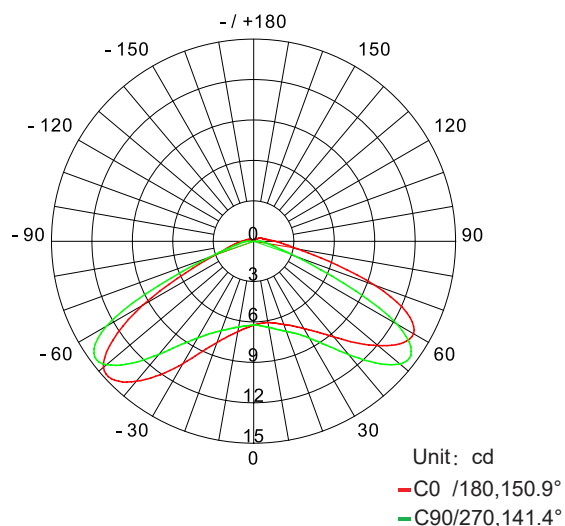
## Note:

Dimension tolerance: length ±0.2mm; width ±0.2mm; height ±0.2mm.  
For detail drawing, please consult sales rep.

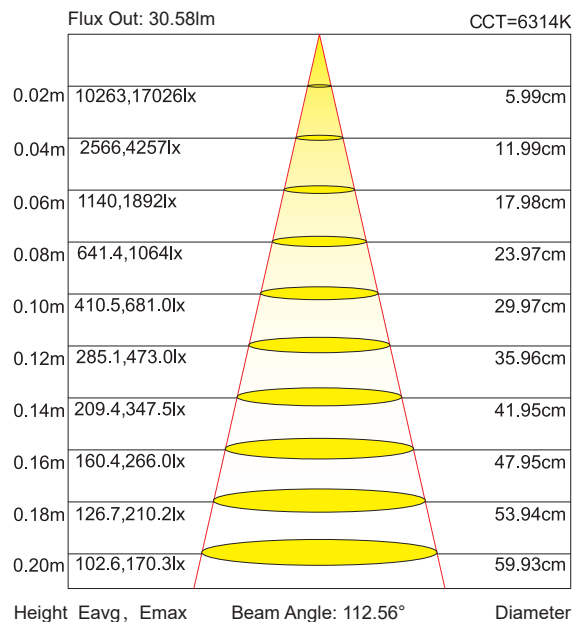


Luminous Intensity Distribution Diagram

Average Illumination



AVERAGE BEAM ANGLE(50%): 146.2°



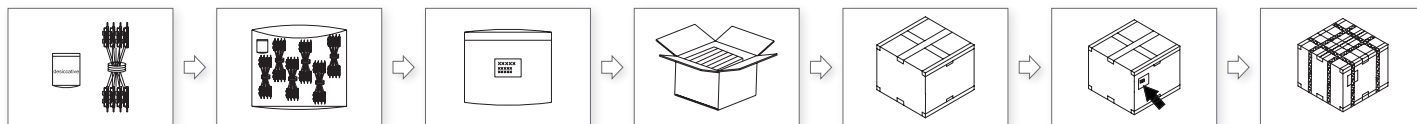
Note: the above two figures are tested with the sample SS308 at 6314K, for other data, please consult sales rep.

## Reliability Test

| Type                 | Name                             | Standard          | Condition                                                                                                                                  | Result |
|----------------------|----------------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------|
| IP test              | IP6X                             | IEC60529          | Inner diameter of water spray port: 12.5mm; distance from sample to water spray port: 3M; water flow: 100L/min; water spray lasts for 3min | IP66   |
| Environmental test   | PTC test                         | Blueview standard | Test temperature: -40°C— 60°C, 2h one cycle (constant temperature: 15 minutes, heating and cooling: 45 minutes)                            | Pass   |
|                      | High temperature resistance test |                   | TH=60/80°C, continuous power on                                                                                                            |        |
|                      | Anti-UV test                     |                   | TH=50°C, UVB: 315~400nm                                                                                                                    |        |
|                      | Salt spray corrosion test        |                   | TH=35°C, 5% concentration of salt solution                                                                                                 |        |
|                      | Water-spray test                 |                   | Exposed to the rain for 12h, the switch turns on every hour                                                                                |        |
|                      | Room temperature aging test      |                   | TH=25°C, continuous power on                                                                                                               |        |
| Flame Retardant test | Flame Retardant test             | GB/T5169.16-2008  | Vertical needle flame test                                                                                                                 |        |



## packing



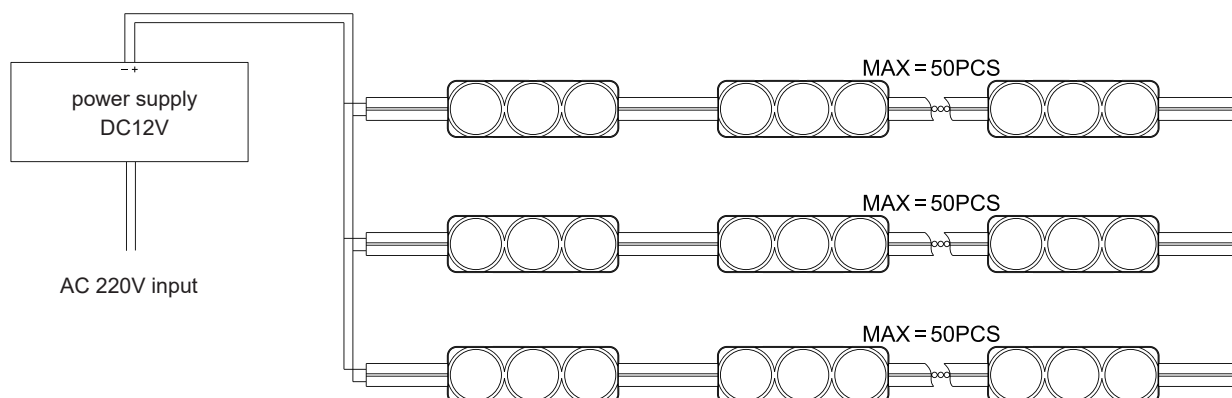
1. Prepare the desiccant and bind the product.
2. Put the product and desiccant into static shielding bag.
3. Seal and label the static shielding bag.
4. Put the static shielding bag side by side into carton box.
5. Seal the box.
6. Label the box;
7. Use packing belt to pack after adding the edge protectors.

## Packaging information

| Model No. | Product Size<br>L*W(mm) | Carton Size(mm) | PCS/Bag | Bag/Carton Box | Net Weight(kg) | Gross Weight(kg) |
|-----------|-------------------------|-----------------|---------|----------------|----------------|------------------|
| SS308     | 28*9*8.4v               | 390*390*325     | 150     | 20             | 9.50(1±10%)    | 11.50(1±10%)     |

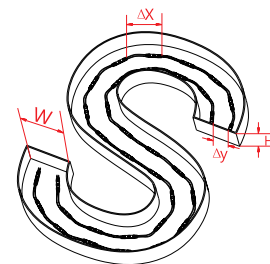
Note:  
Packing materials: static shielding bag and carton box.  
The above quantity and weight are only for the illustrated packaging method. There will be differences in the quantity and weight with other packaging methods.

## Installation



## Installation Reference

| Depth(H)<br>cm | Single-row            |                |                             | Double-row            |                |                             |                             | Visual<br>Effects |
|----------------|-----------------------|----------------|-----------------------------|-----------------------|----------------|-----------------------------|-----------------------------|-------------------|
|                | Illumination<br>(lux) | Width<br>W(cm) | Spacing<br>( $\Delta X$ )cm | Illumination<br>(lux) | Width<br>W(cm) | Spacing<br>( $\Delta X$ )cm | Spacing<br>( $\Delta Y$ )cm |                   |
| 4.5            | 8600-10400            | 6              | 5                           | /                     | /              | /                           | /                           | OK                |
| 6              | 4030-4810             | 11             | 7                           | 8000-9210             | 11             | 8                           | 2.5                         |                   |
| 7              | 3600-4400             | 11             | 8                           | 6780-7330             | 11             | 9                           | 2.5                         |                   |
| 8              | 3100-3900             | 11             | 9                           | 5970-6520             | 11             | 9                           | 2.5                         |                   |
| 10             | 1750-2200             | 16             | 9                           | 3470-4280             | 16             | 9                           | 4                           |                   |

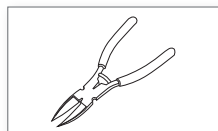


Irregular light boxes, like letter logo.

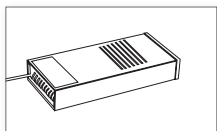
## Note:

For the above data, SS308 uses white bottom material and 3mm acrylic board;  
For illumination data of other depths and models, please contact the sales rep;  
The picture above is not the actual object and is for reference only.

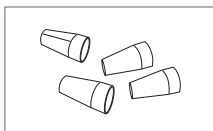
## Accessories &amp; Tools



Diagonal Pliers

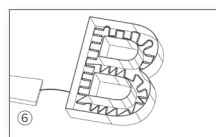
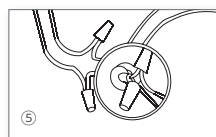
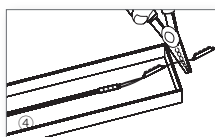
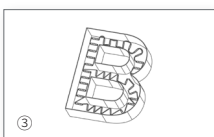
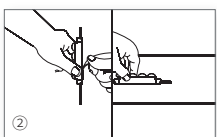
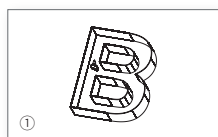


LED power supply



Connection Terminals

## Installation steps



- 1.Clean the mounting surface.
- 2.Peel away the release paper on the back of led modules and stick them onto mounting surface.
- 3.Evenly arrange the led modules with appropriate space.
- 4.Cut the modules according to the requirements and treat the cut place with insulation and waterproof arrangement.  
Note: Cut in the middle of the wire.
- 5.If the product needs to be connected, it is better to fix with connection ends.  
Note: Treat the thread with insulation,waterproof, and anti-corrosion arrangement as it cannot pull out by hands.
- 6.Make sure the correct connection of positive and negative poles between led module and power supply.  
Note: Treat the thread with insulation,waterproof, and anti-corrosion arrangement as it cannot pull out by hands.



### 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.
- After installation, the fabric light box must be covered with cloth within 48 hours. Please avoid leaving the light box idle for a long time

### 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. |                                                                                                                                  |
|                                                     | Wrong connection of power supply.                                                        |                                                                                                                                  |
| LEDs can not light on partly.                       | Some switching mode power supplies are not powered.                                      | Correctly connection.                                                                                                            |
|                                                     | Power supply line error.                                                                 |                                                                                                                                  |
|                                                     | Mistaken wire connection of some of products                                             |                                                                                                                                  |
| 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 $\pm 5\%$ 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.                                                   |
| 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 24 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 (0.75mm<sup>2</sup> 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.