

## Features

- Bright lens RGB LED module with special design
- IP67 perfect for outdoor use
- Long distance signal transmission without signal distortion or weakness
- PWM signal, 256 grades brightness controllable
- Single-line three-channel LED constant current drive, the external controller can control the chip with single line The signal transmission will resume from break point
- Support multiple controllers to realize various light effects

## Application

Suitable for architectural decoration, river lighting, signage, facade lighting, display screen, etc.

## Installation

Fix by screws

Fix by aluminum profile with holes



## Optical & Electrical Parameters

Model No.	Light Color	Color Temperature/Wavelength(K/nm)	Beam Angle	Ra	Typical Luminous Flux(lm/pcs)	Efficacy (lm/W)	Voltage (DC V)	Power (W/pcs)
CS8-A	R	620-625	145°	--	--	--	12	0.22
	G	520-525		--	--	--		0.22
	B	465-470		--	--	--		0.22
	RGB	100000		--	17	25		0.65

## Other Parameters

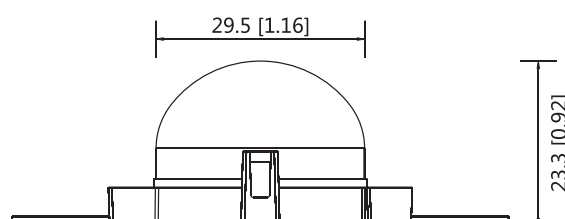
Model No.	LED Quantity (pcs/pc)	Standard Packing Qty(pcs)	Max Run(Single Feed)(pcs)	Min Cuttable Length(pcs)	Working Temperature	Storage Temperature
CS8-A	3	50	50	1	-25~+60	-25~+70

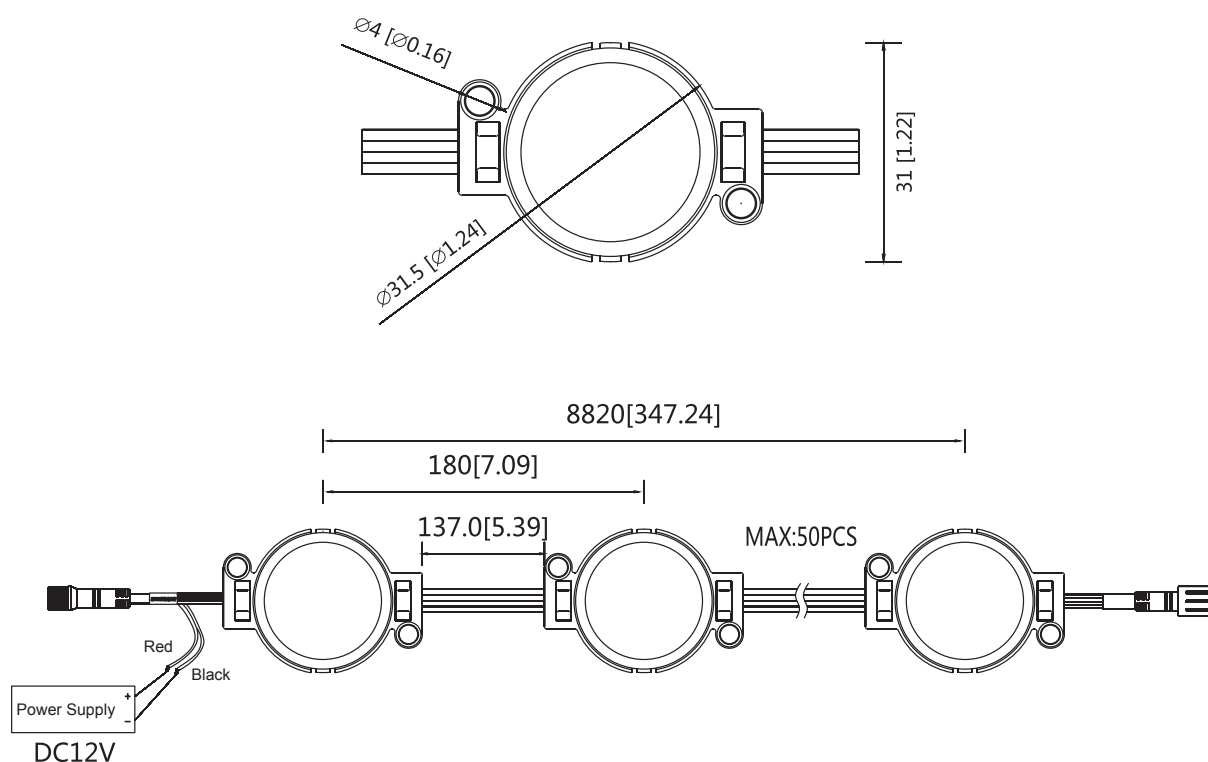
### NOTE:

- 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.
- "-" means no data for now.

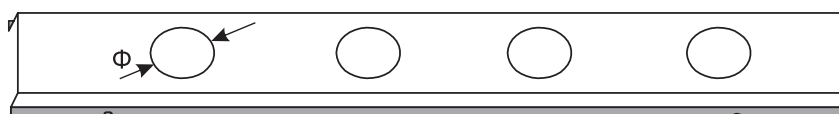
## Profile Drawings

Unit:mm





Note: Controller must be used to lit the product.

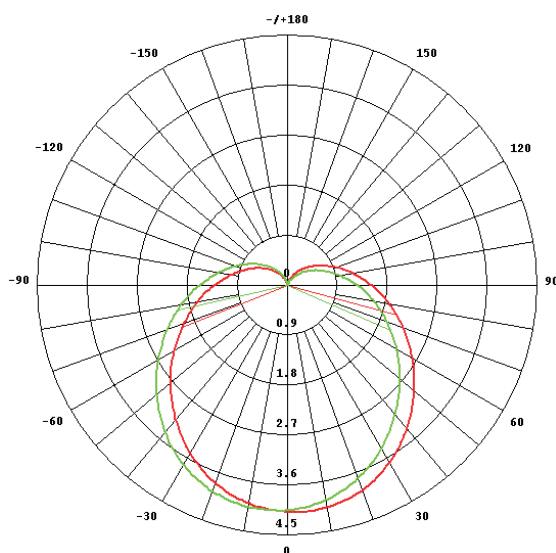


Model No.	Plate Thickness(mm)	Hole Size Φ(mm))
CS8-A	1~3	30

Note: If you need to open the hole, please do it according to the above size.



## Luminous Intensity Distribution Diagram



AVERAGE BEAM ANGLE(50%): 143.2°

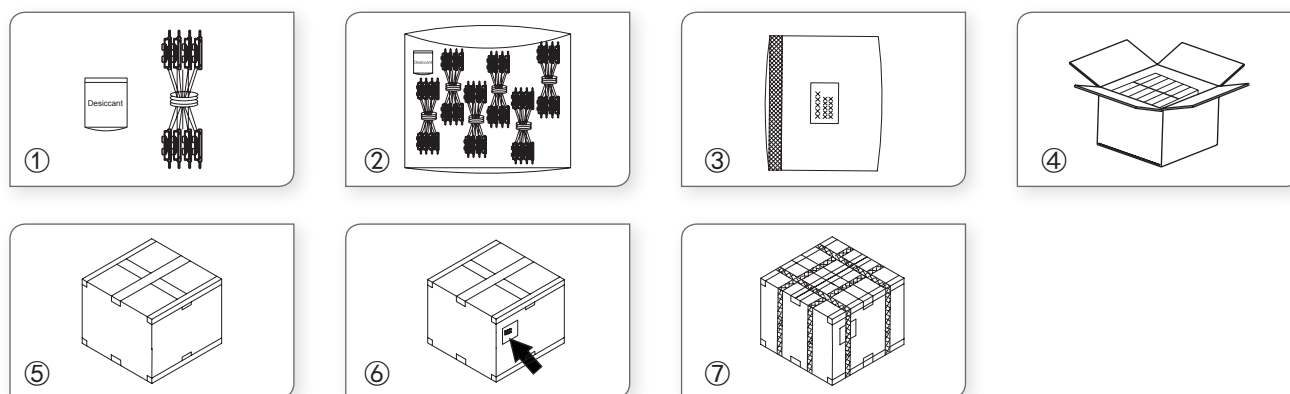
## Average Beam Angle

Flux Out: 12.80lm		
		CS8-A
1cm	4300,40859 lx	5.94cm
2cm	1075,10215 lx	11.87cm
3cm	477.8,4540 lx	17.81cm
4cm	268.8,2554 lx	23.74cm
5cm	172.0,1634 lx	29.68cm
6cm	119.5,1135 lx	35.62cm
7cm	87.76,833.8lx	41.55cm
8cm	67.19,638.4lx	47.49cm
9cm	53.09,504.4 lx	53.42cm
10cm	43.00,408.6lx	59.36cm
Height	Eavg, Emax	Beam Angle: 142.76° Diameter

Note: The above data are tested with RGB three colors of CS8-A normally on.



## Packaging Information



- 1.Place the checked product and desiccant neatly.
- 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, the packing quantity refers to production task list.
- 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 (mm)	Carton Size (mm)	Pcs/Bag	Bag/Carton	Net Weight(kg)	Gross Weight(kg)
CS8-A	43X31X23.3	550X400X340	50	20	13.55(1±10%)	15.25(1±10%)

#### Note:

Packing materials: static shielding bag and carton box.

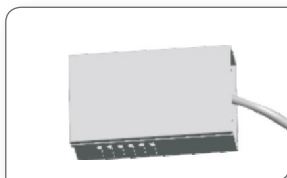
The above quantity and weight are only for the illustrated packaging method. There will be differences in the quantity and weight with other packaging methods.



## Installation



CS8-A



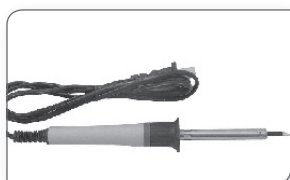
LED Power Supply



Controller



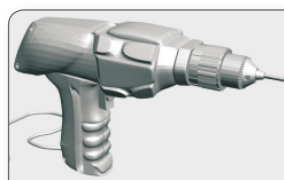
Insulation Tape



Electric Iron



Diagonal Pliers



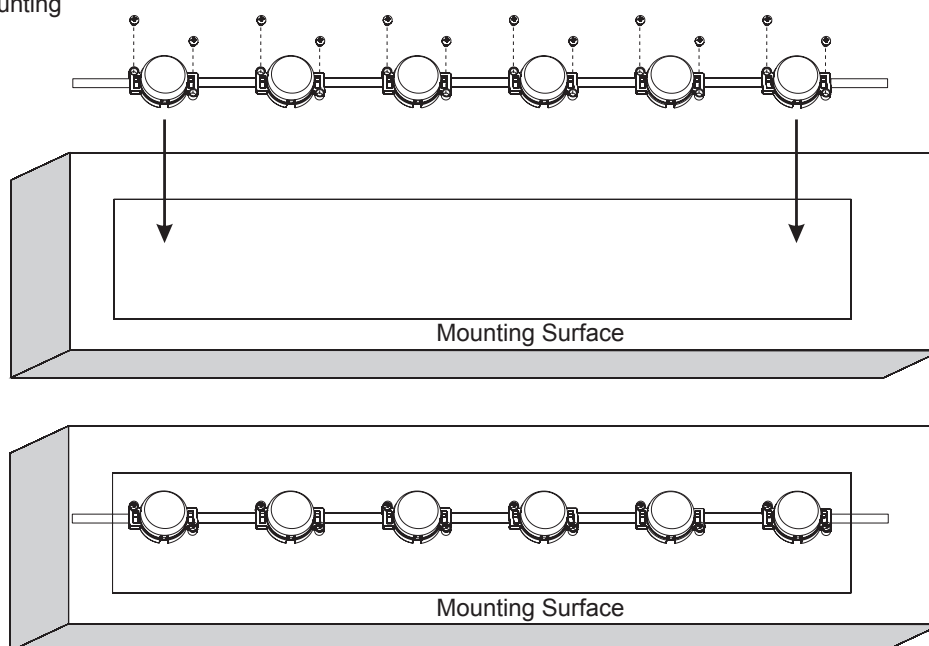
Electric Drill



Self-tapping Screws

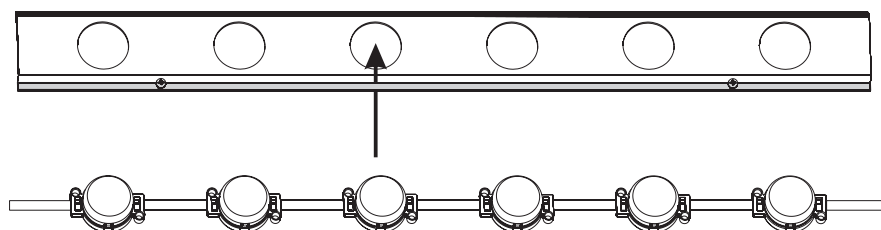
## Installation Methods and Steps

### Common Mounting

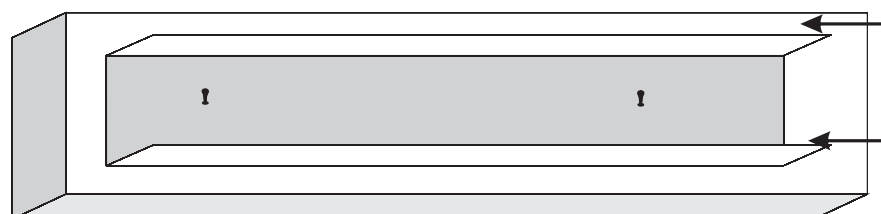




### Aluminum profile with holes Mounting



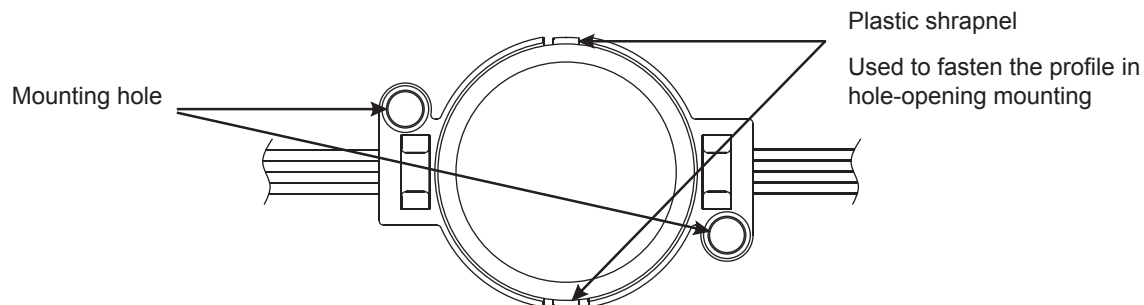
② Put the product out of the profile and fasten it



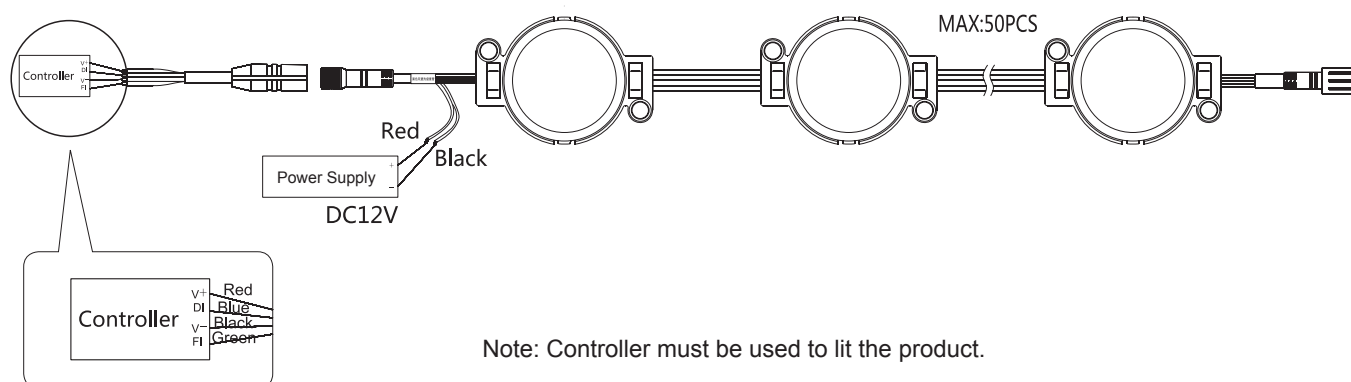
③ Fix the profile on the bottom cover with screws

① Fix the bottom cover on the wall with screws

Note: pay attention to hole size and plate thickness.



### Connection of Controller



Note: Controller must be used to lit the product.



## Attentions

1. Before installation, check that the product parameters are consistent with the requirements (Seeing product specifications or product labels)
2. Load voltage, current, power and power supply should be matched with the product.
3. Follow the instructions of wiring diagram (first connect the load and then the power supply) to avoid short circuit.
4. Make sure the correct connection of positive and negative poles between product and power supply. Otherwise, the light will not be on.
5. Make sure the power cord firmly screwed into the terminal and it should not be pulled out by hands.
6. The terminal should have insulation, waterproof and anti-corrosive treatment

## 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.	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 for 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	Reduce the quantities of 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 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 (0.75mm<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.
- The length of the power cable between the power supply and the Product 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.
- Make sure the series connection within max run.

## Statements and Recycling

### Statements:

1. Repair should be operated by a qualified technician, if the external circuit or main line of this product is damaged.
2. The parameters given in this manual are typical values and for reference only.
3. All illustrations and drawings in this manual are for reference.
4. This product is subject to change without notice.

### Recycling:

1. LED lighting products belongs to electronic products, please do recycling treatment according to the relevant WEEE directives.