Version: **A2.1**

## Features

- 220V AC input.
- Self-designed 170° wide beam angle for uniform light.
- Curtain style, 6pcs each string for easy installation.
- Multiple specifications, support customization.
- Do not support PWM dimming.



## Application

- Suitable for back-lit light box with depth above 8cm.

## Installation

- Fix by screws

## Specification

| Model No.  | Light Color | Color Temperature(K) | Beam Angle | Ra  | Luminous Flux (lm/pcs) | Efficacy (lm/W) | Voltage (V AC) | Power (W/pcs) |
|------------|-------------|----------------------|------------|-----|------------------------|-----------------|----------------|---------------|
| A4-FW-0303 | W           | 3000-12000           | 170°       | 80+ | 309                    | 98.79           | 220            | 3             |
| A4-FW-0606 |             |                      |            |     | 608                    | 104.3           |                | 6             |
| A4-FW-0909 |             |                      |            |     | 906                    | 104.1           |                | 9             |
| A4-FW-1212 |             |                      |            |     | 1188                   | 105.0           |                | 12            |



## Other Parameters

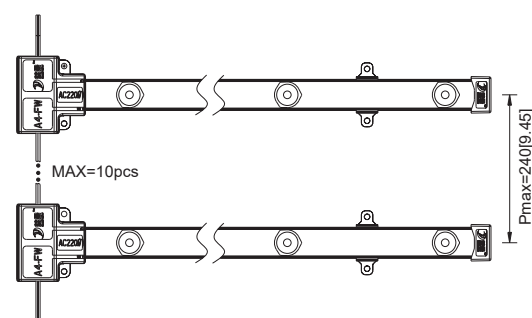
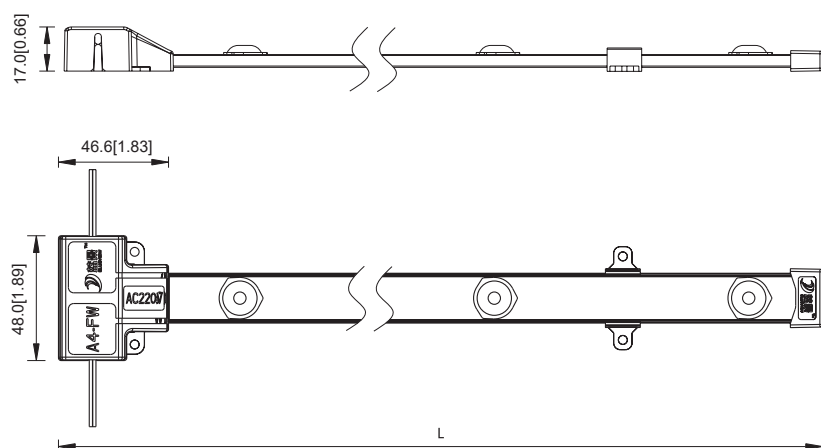
| Model No.  | LED Quantity/pc | Product Size L*W*H (mm) | Standard Run (pcs) | Max Run (pcs) | Working Temperature | Storage Temperature |
|------------|-----------------|-------------------------|--------------------|---------------|---------------------|---------------------|
| A4-FW-0303 | 3               | 285*46.6*16.6           | 10                 | 24            | -20~+60°C           | -20~+70°C           |
| A4-FW-0606 | 6               | 570*46.5*16.6           |                    |               |                     |                     |
| A4-FW-0909 | 9               | 855*46.6*16.6           |                    |               |                     |                     |
| A4-FW-1212 | 12              | 1150*46.6*16.6          |                    |               |                     |                     |

### NOTE:

1. Test environment temperature : 25±2°C.
2. 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.
3. Luminous flux is tested when lighting on with the single color at 9000-12000K.
4. Different color temperature will make luminous flux different.
5. Working voltage range from AC176V to AC264V
6. The luminous flux and Power tolerance within ±10%
7. The max run refers to the product number when it is applied, not equal to the standard packing quantity.

## Profile Drawings

Unit:mm[inch]

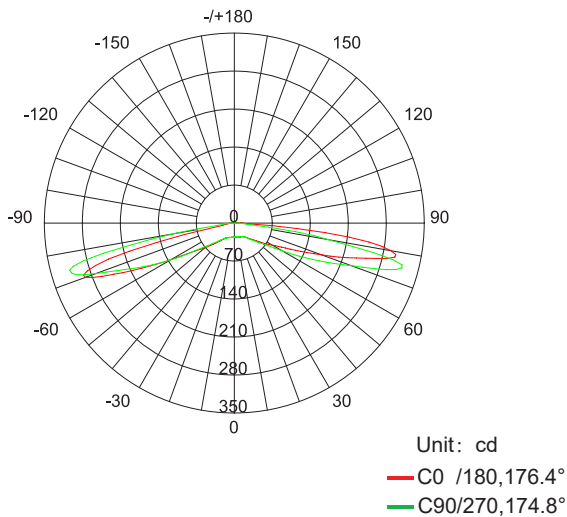


Note: For detailed drawing, please consult sales rep.

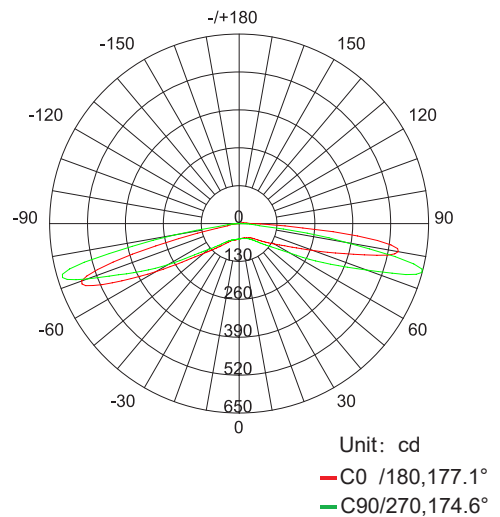


## Luminous Intensity Distribution Diagram

A4-FW-0606



A4-FW-1212



## Average Illumination

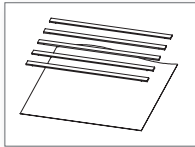
| Flux Out: 647.6lm (CCT=12000K) |               | A4-FW-0606          |          |
|--------------------------------|---------------|---------------------|----------|
| Height                         | Eavg, Emax    | Beam Angle: 174.29° | Diameter |
| 2cm                            | 628.5,64893lx |                     | 80.21cm  |
| 4cm                            | 157.1,16223lx |                     | 160.41cm |
| 6cm                            | 69.83,7210lx  |                     | 240.62cm |
| 8cm                            | 39.28,4056lx  |                     | 320.83cm |
| 10cm                           | 25.14,2596lx  |                     | 401.04cm |
| 12cm                           | 17.46,1803lx  |                     | 481.24cm |
| 14cm                           | 12.83,1324lx  |                     | 561.45cm |
| 16cm                           | 9.820,1014lx  |                     | 641.66cm |
| 18cm                           | 7.759,801.1lx |                     | 721.87cm |
| 20cm                           | 6.285,648.9lx |                     | 802.07cm |

| Flux Out: 1297lm (CCT=12000K) |               | A4-FW-1212          |          |
|-------------------------------|---------------|---------------------|----------|
| Height                        | Eavg, Emax    | Beam Angle: 176.17° | Diameter |
| 2cm                           | 2835,134950lx |                     | 67.43cm  |
| 4cm                           | 708.8,33738lx |                     | 134.85cm |
| 6cm                           | 315.0,14994lx |                     | 202.28cm |
| 8cm                           | 177.2,8434lx  |                     | 269.71cm |
| 10cm                          | 113.4,5398lx  |                     | 337.13cm |
| 12cm                          | 78.76,3749lx  |                     | 404.56cm |
| 14cm                          | 57.86,2754lx  |                     | 471.99cm |
| 16cm                          | 44.30,2109lx  |                     | 539.41cm |
| 18cm                          | 35.00,1666lx  |                     | 606.84cm |
| 20cm                          | 28.35,1350lx  |                     | 674.26cm |

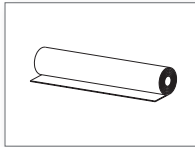
NOTE: please contact the sales for other data.



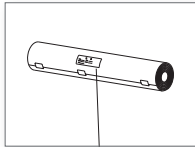
packing



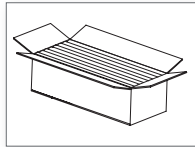
Place the products on the pearl foam



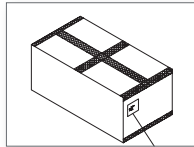
Wrap the pearl foam



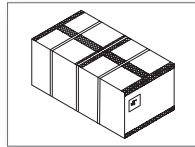
Seal both ends and stick a label



Put the product neatly into carton box.



Seal and label the box.



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

Packaging information

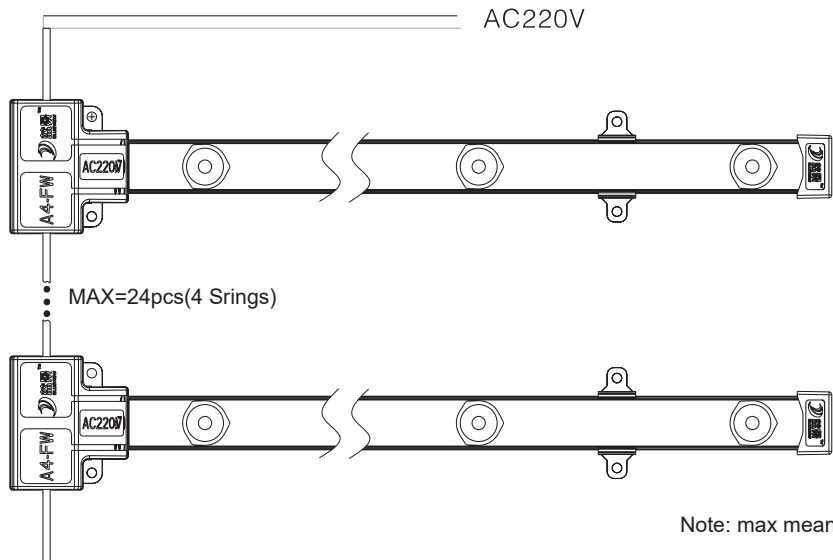
| Model No.  | Product Size<br>L*W*H(mm) | Carton Size(mm) | Total Qty(pcs) | Net Weight(kg) | Gross Weight(kg) |
|------------|---------------------------|-----------------|----------------|----------------|------------------|
| A4-FW-0303 | 285*46.6*16.6             | 430*210*240     | 60             | 5.2(1±10%)     | 5.8(1±10%)       |
| A4-FW-0606 | 570*46.6*16.6             | 730*210*240     | 60             | 8.3(1±10%)     | 9.1(1±10%)       |
| A4-FW-0909 | 855*46.6*16.6             | 1130*210*240    | 60             | 16.2(1±10%)    | 17.8(1±10%)      |
| A4-FW-1212 | 1150*46.6*16.6            | 1330*210*240    | 60             | 20.1(1±10%)    | 21.9(1±10%)      |

Note:

The products are separated layer by layer with white foam and packed in regular carton boxes;  
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

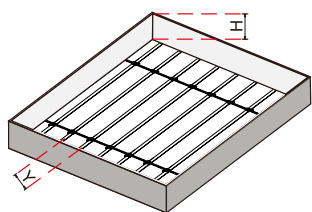
Connection Diagram



Note: max means max run quantity

### Installation Reference

| Model No.  | Lightbox Bottom | Surface Material | Depth(H) (cm) | Illumination (lux) | Density (pcs/m <sup>2</sup> ) | Bar Spacing (Y)cm | Power Density(W/m <sup>2</sup> ) | Visual effects |
|------------|-----------------|------------------|---------------|--------------------|-------------------------------|-------------------|----------------------------------|----------------|
| A4-FW-1212 | White           | White Soft Film  | 8             | 6330-7680          | 6                             | 16                | 72                               | OK             |
|            |                 |                  | 10            | 5080-6030          | 5                             | 20                | 60                               |                |
|            |                 |                  | 12            | 4970-5780          | 5                             | 20                | 60                               |                |
|            |                 |                  | 15            | 4650-5190          | 5                             | 20                | 60                               |                |
|            |                 |                  | 18            | 4360-4730          | 5                             | 20                | 60                               |                |
|            |                 |                  | 20            | 4150-4480          | 5                             | 20                | 60                               |                |



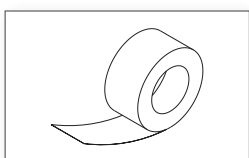
#### Note:

- 1.Spacing, see left;
- 2.For the data of other depth,please consult sales rep.
- 3.Please contact the sales for other data.

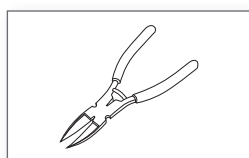
### Accessories & Tools



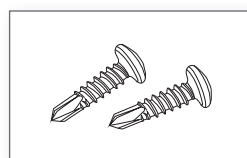
A4-FW



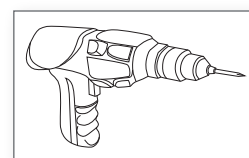
Insulation tape



Tools:Diagonal pliers

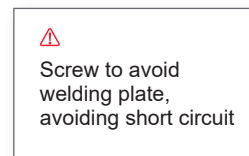
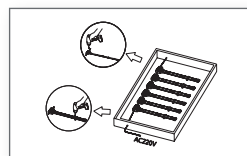
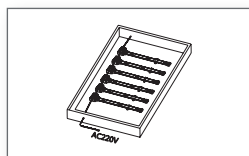
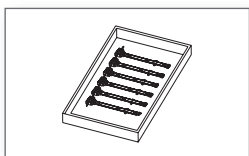
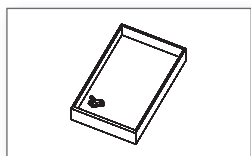


M3 Self-tapping screw



Electric drill

### Installation steps



1. Clean the mounting surface.
2. Arrange the mounting space.
3. For bare wire connection, please use terminals.
4. Check and ensure correct installation, and fix the product with screws ,then power on for self-test.



### Attentions before installation

- Before installation, check that the product parameters are consistent with the requirements (Seeing product specifications or product labels)
- When using our AC products, it need to be matched with our lightning protection products to prevent the impact and damage of the surge current on the products.
- 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.
- High voltage products need to be used in match with our surge protectors to prevent the impact and damage of surge currents on the products.

### Common Faults and Troubleshoot

| Quick Guide                  |                                                    |                                                                         |
|------------------------------|----------------------------------------------------|-------------------------------------------------------------------------|
| Problems                     | Reasons                                            | Solutions                                                               |
| All LEDs can not light on.   | No electric supply.                                | Power on                                                                |
| LEDs can not light on partly | Some switching mode power supplies are not powered | Check the power supply system to fix it.                                |
|                              | Excessive quantities in series connection          | Reduce the product quantities in series connection to meet requirement. |
| LED flicker                  | Connection point fault                             | Remove bad connection point                                             |
|                              | 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.
- 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.

| Version | Content              | Date     |
|---------|----------------------|----------|
| A2.1    | Update: Standard Run | 2024-6-7 |