

# TX-H1825SW14A-2860V36-02AH90

## PRODUCT SPECIFICATION

### Features:

- ◆Excellent transiting heat from LED chip operating under 1100mA.
- ◆Provide uniform cross distribution of positive white and warm white dual color scheme, mixed pure.
- ◆High luminous output.
- ◆No UV.
- ◆Encapsulated materials are environmentally certified and meet environmental requirements.

### Chip Material:

- ◆GaInN

### Emitting Color:

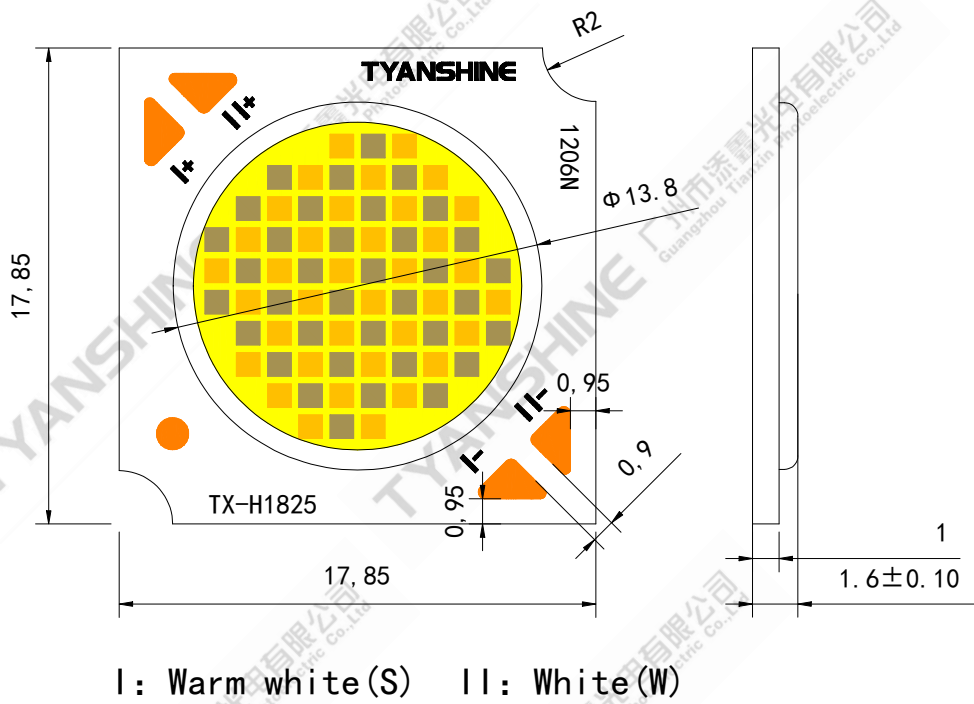
- ◆White
- ◆Warm white

### Applications:

- ◆Commercial lighting
- ◆General Lighting

|          |                              |          |            |      |        |
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Package Dimensions:



Notes:

- 1.All dimensions are in millimeters .
- 2.Tolerances unless otherwise mentioned are ±0.25mm .

Code Formats:

TX-H1825SW14A-2860V36-02AH90

|           |   |              |        |             |             |     |         |   |      |       |   |     |     |
|-----------|---|--------------|--------|-------------|-------------|-----|---------|---|------|-------|---|-----|-----|
| TX        | — | H            | 18     | 25          | SW          | 14  | A       | — | 2860 | V36   | — | 02A | H90 |
| TYANSHINE | — | high density | series | watt<br>typ | performance | LES | texture | — | CCT  | VOLTs | — | BOM | Ra  |

|          |                              |          |            |      |        |
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## Absolute Maximum Ratings

| Parameter                               | Symbol           | Ratings                            | Unit |
|-----------------------------------------|------------------|------------------------------------|------|
| Forward Current                         | IF               | 1100                               | mA   |
| Reverse Voltage                         | V <sub>R</sub>   | Not designed for reverse operation | V    |
| Power Dissipation                       | P <sub>D</sub>   | S                                  | W    |
|                                         |                  | W                                  |      |
|                                         |                  | S+W                                |      |
| Junction Temperature                    | T <sub>j</sub>   | S                                  | ℃    |
|                                         |                  | W                                  |      |
| Case Temperature (C)                    | T <sub>c</sub>   | 85                                 | ℃    |
| Electrostatic Discharge Threshold (ESD) | ESD              | 2000                               | V    |
| Storage Temperature                     | T <sub>stg</sub> | -30~+100                           | ℃    |
| Operation Temperature                   | T <sub>opr</sub> | -30~+85                            |      |

## Notes:

- Specifications are subject to change without notice.
- The data on this specification is for reference only and the actual data is in accordance with the acknowledgment.
- Precautions for ESD:  
STATIC SHIELD Electricity and surge damages the LED. It is recommended to use a wrist band or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly grounded.

## Electrical Optical Characteristics (Tc=25°C)

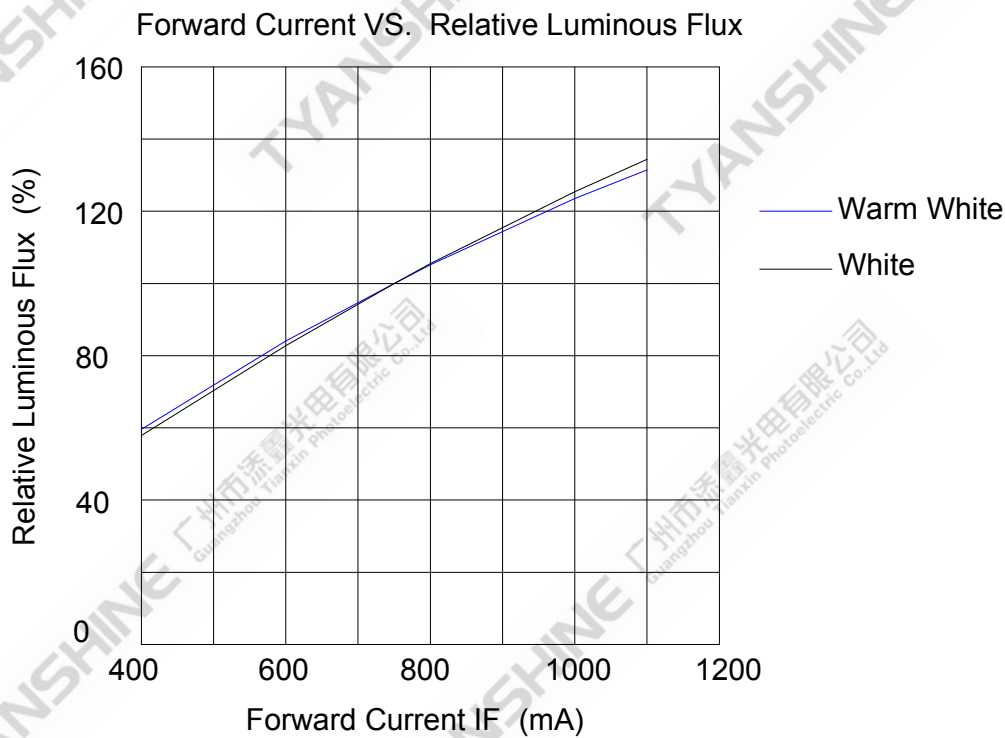
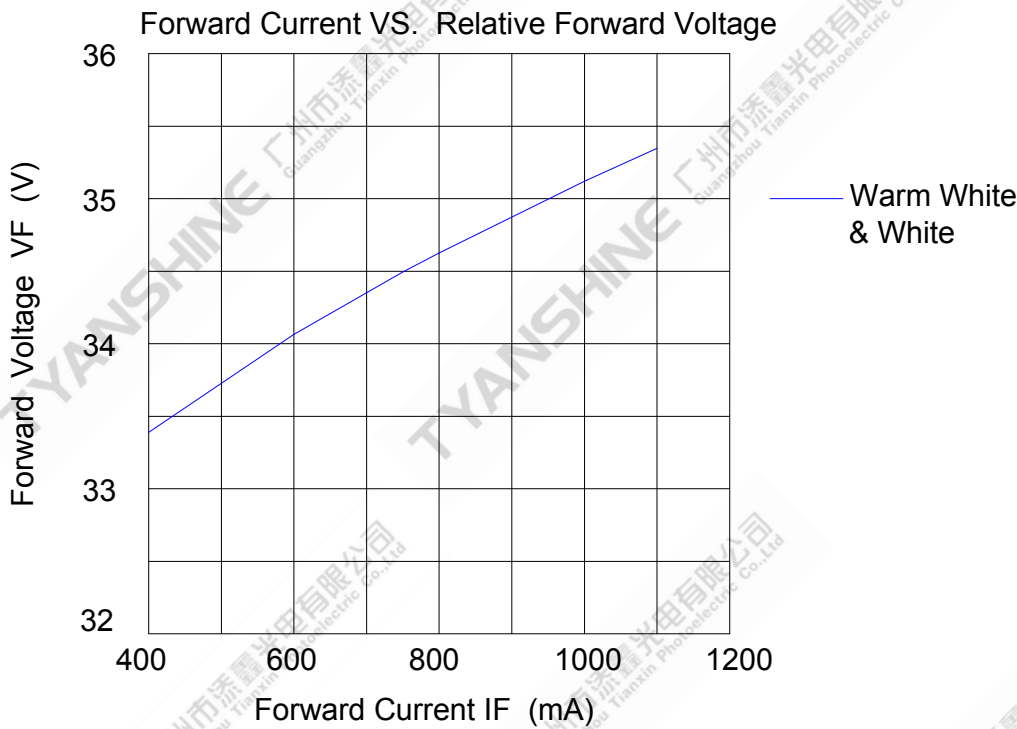
| Parameter                           | Symbol          | Condition | Emitting color | Min. | Typ. | Max. | Units   |     |
|-------------------------------------|-----------------|-----------|----------------|------|------|------|---------|-----|
| Luminous Flux                       | $\phi_v$        | If=750mA  | S              | 2100 | 2400 | 2800 | lm      |     |
|                                     |                 |           | W              | 2700 | 3100 | 3500 |         |     |
| Forward Voltage                     | $V_f$           |           | S              | 32   | 34   | 36   | V       |     |
|                                     |                 |           | W              | 32   | 34   | 36   |         |     |
| Correlated Colour Temperature       | CCT             |           | S              | 2620 | 2700 | 2780 | K       |     |
|                                     |                 |           | W              | 5750 | 6000 | 6700 |         |     |
| Viewing Angle at 50 % IV            | $2\theta_{1/2}$ |           | S              | —    | 115  | —    | Deg     |     |
|                                     |                 |           | W              | —    | 115  | —    |         |     |
| Reverse Current                     | $I_R$           |           | —              | —    | —    | —    | $\mu A$ |     |
| Thermal Resistance Junction to Case | $R\theta_{J-C}$ |           | If=750mA       | —    | —    | 1.1  | —       | K/W |
| Color Rendering Index               | Ra              |           |                | S    | 90   | —    | —       | —   |
|                                     |                 |           |                | W    | 90   | —    | —       |     |

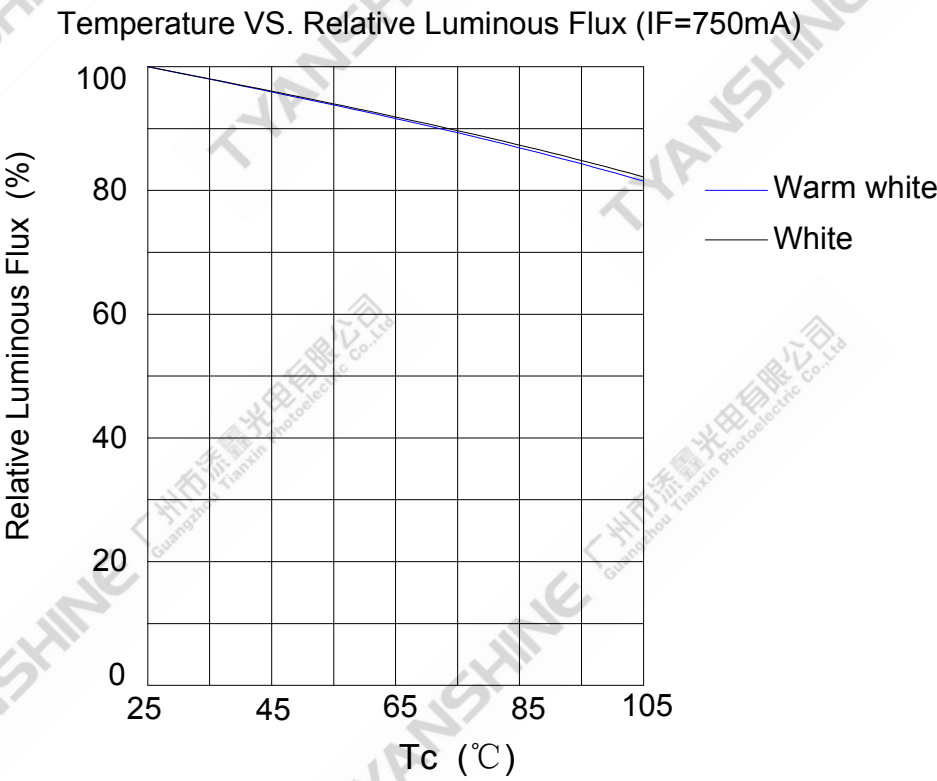
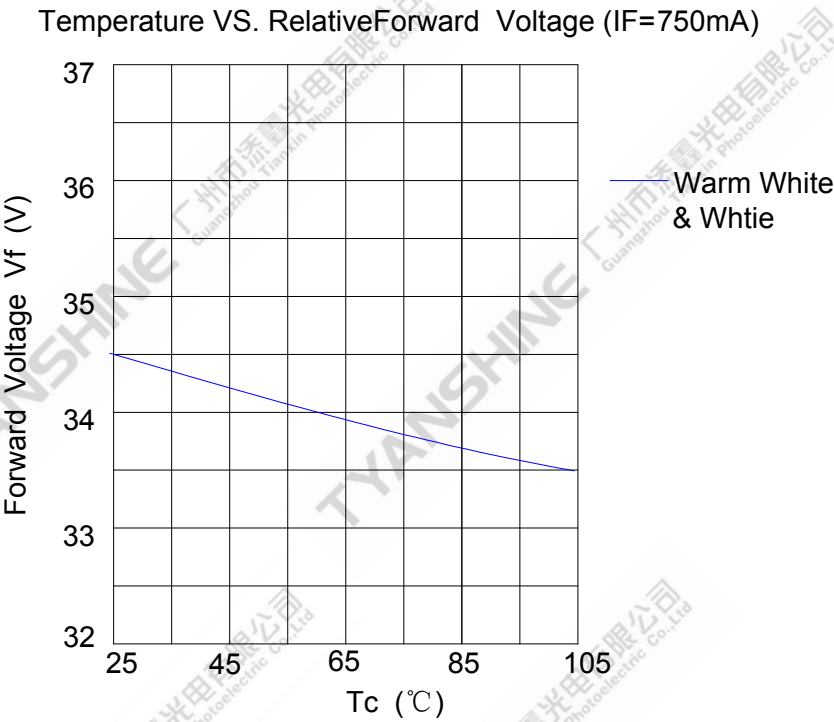
## Notes:

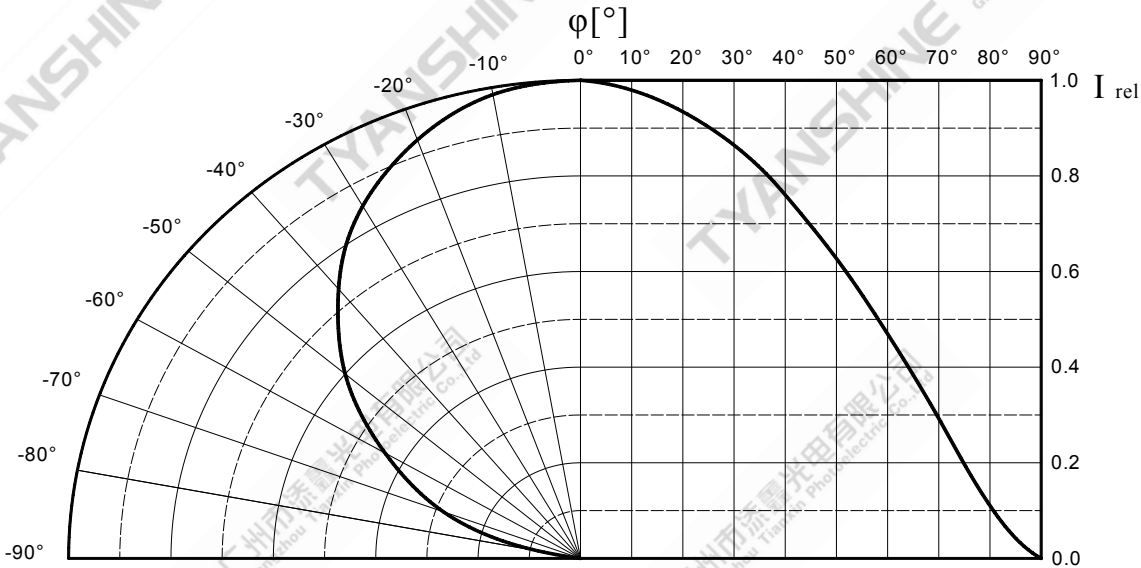
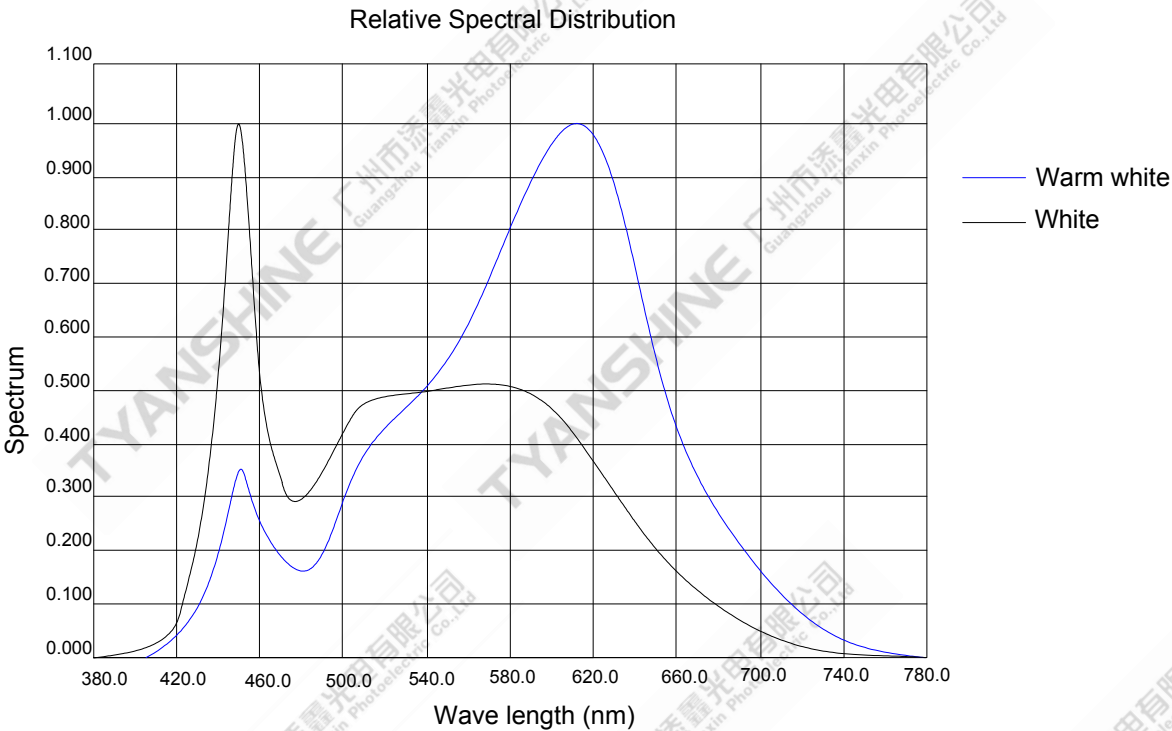
- 1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. $\theta_{1/2}$  is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3.Luminous flux measurement tolerance:  $\pm 15\%$ .
- 4.Forward voltage measurement tolerance:  $\pm 3\%$ .
- 5.Ra measurement tolerance:  $\pm 2$ .

Typical Electrical/Optical Characteristics Curves

(25℃ Ambient Temperature Unless Otherwise Noted)



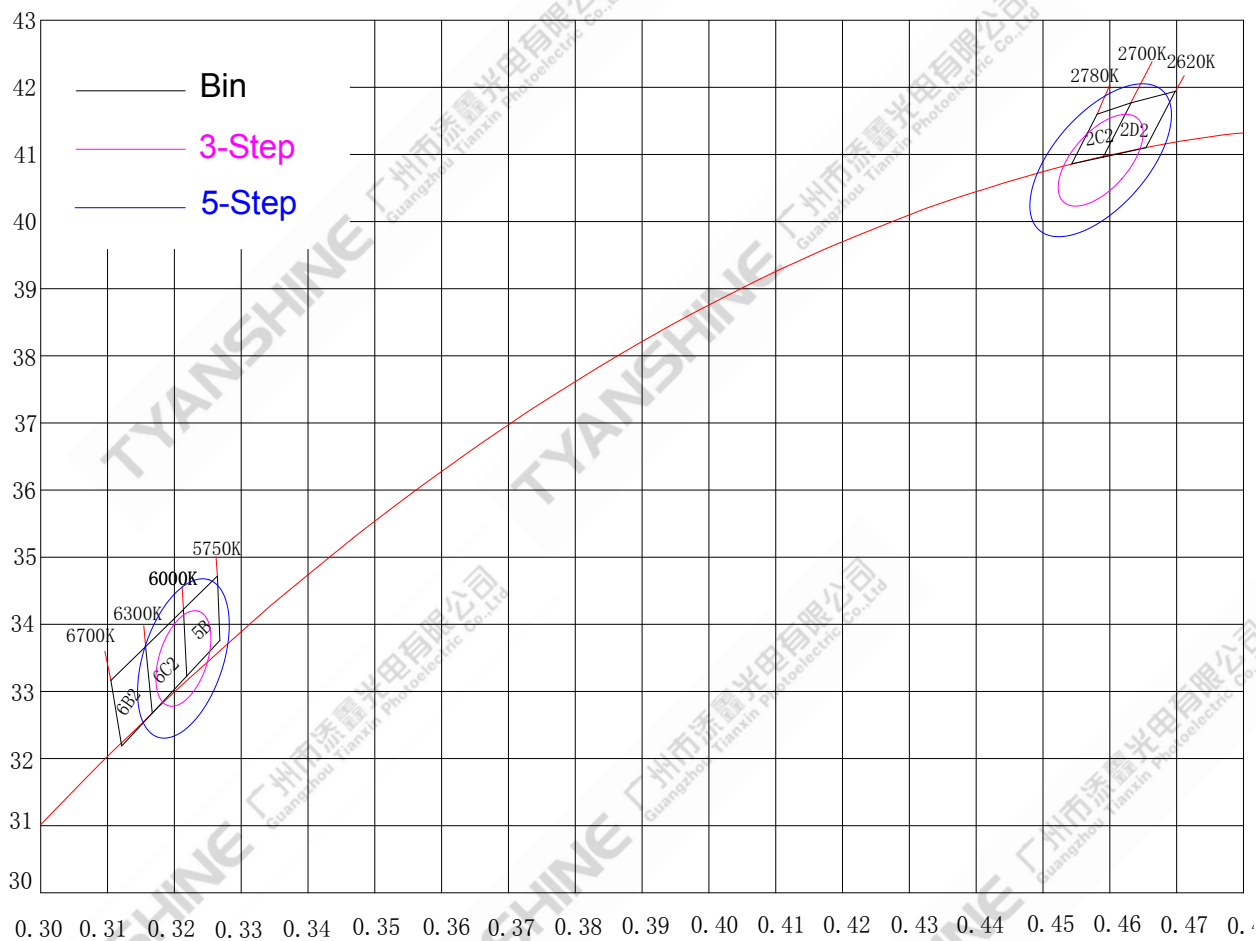




Notes:

1.  $2\theta_{1/2}$  is the off axis angle from lamp centerline where the luminous intensity is 1/2 of the peak value.
2. View angle tolerance is  $\pm 5^\circ$ .

## Chromaticity Coordinates (Condition : IF=750mA , Tc=25℃)



## Notes:

1.chromaticity (x, y) measurements tolerance:  $\pm 0.005$ .

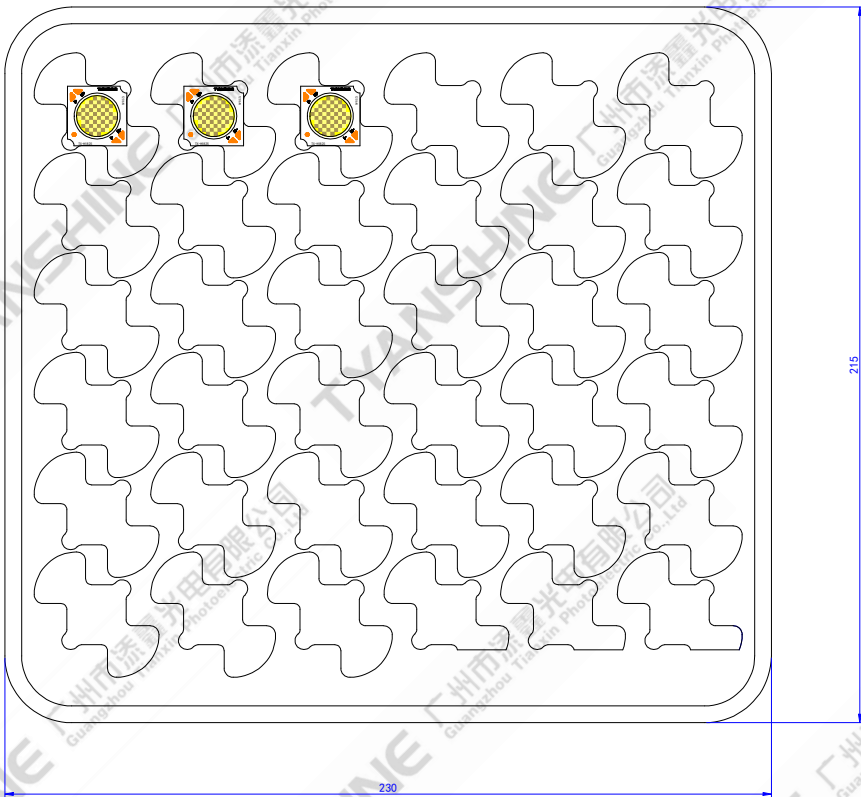
## Reliability Test

| Test Item                     | Test Condition                                     |
|-------------------------------|----------------------------------------------------|
| Continuous Operation Test     | IF=750mA Ta=25℃ ×1000hrs                           |
| Low Temperature Storage Test  | -30℃ × 1000 hours                                  |
| High Temperature Storage Test | 100 ℃ × 1000 hours                                 |
| Moisture-proof Test           | 85 ℃, 85 %RH for 500 hours                         |
| Thermal Shock Test            | -40 ℃ × 15 minutes – 125 ℃ × 15 minutes, 100 cycle |

|          |                              |          |            |      |        |
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Dimensions For Cannulation And Packaging

Quantity: 36PCS



Notes:

- 1. All dimensions are in millimeters.
- 2. Tolerances are  $\pm 2.0$  mm unless otherwise noted.
- 3. The products are packaged together with silica gel, Transport, not to the weight of welding LED light-emitting area, As a result of the weight of LED light-emitting zone in the quality of, Irresponsible of the Company.