

# TX-1524SW11A-2760V39-03H90

## PRODUCT SPECIFICATION

### Features:

- ◆Excellent transiting heat from LED chip operating under 700mA.
- ◆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:

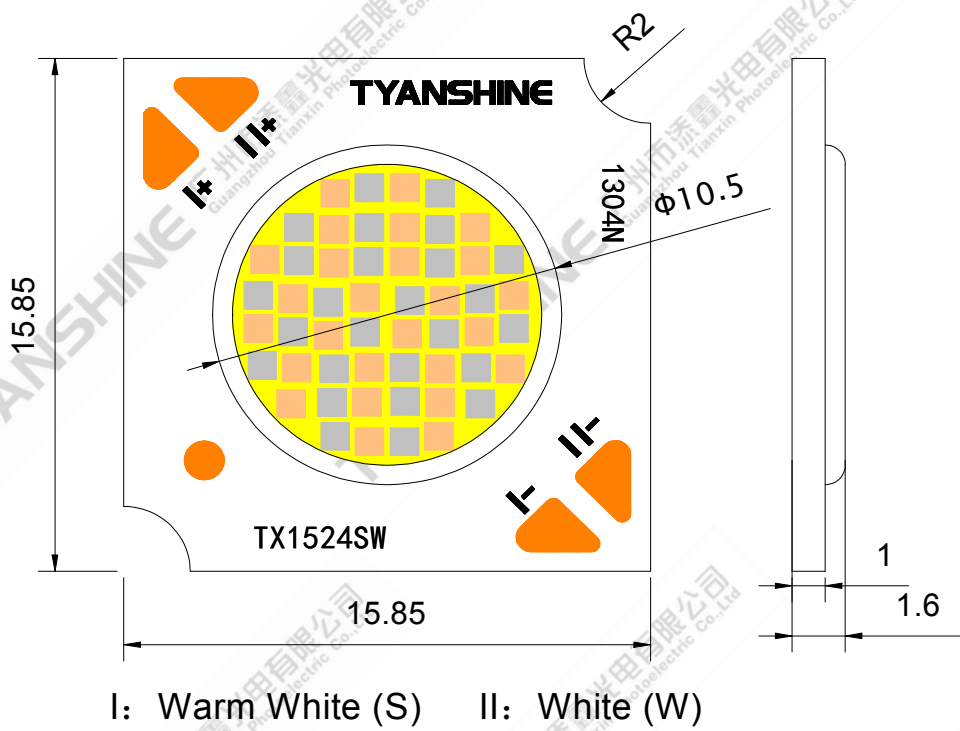
- ◆White
- ◆Warm white

### Applications:

- ◆Commercial lighting
- ◆General Lighting

|          |                            |          |            |      |        |
|----------|----------------------------|----------|------------|------|--------|
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|----------|----------------------------|----------|------------|------|--------|

Package Dimensions:



Notes:

- 1.All dimensions are in millimeters .
- 2.Tolerances unless otherwise mentioned are  $\pm 0.25\text{mm}$  .

Code Formats:

TX-1524SW11A-2760V39-03H90

|           |   |        |           |             |     |         |   |      |        |   |     |     |
|-----------|---|--------|-----------|-------------|-----|---------|---|------|--------|---|-----|-----|
| TX        | — | 15     | 24        | SW          | 11  | A       | — | 2760 | V39    | — | 03  | H90 |
| TYANSHINE | — | series | watt type | performance | LES | texture | — | CCT  | VOL TS | — | BOM | Ra  |

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

| Parameter                               | Symbol | Ratings                            | Unit |
|-----------------------------------------|--------|------------------------------------|------|
| Forward Current                         | IF     | 700                                | mA   |
| Reverse Voltage                         | VR     | Not designed for reverse operation | V    |
| Power Dissipation                       | PD     | S                                  | W    |
|                                         |        | W                                  |      |
|                                         |        | S+W                                |      |
| Junction Temperature                    | Tj     | S                                  | ℃    |
|                                         |        | W                                  |      |
| Case Temperature (C)                    | Tc     | 85                                 | ℃    |
| Electrostatic Discharge Threshold (ESD) | ESD    | 2000                               | V    |
| Storage Temperature                     | Tstg   | -30~+100                           | ℃    |
| Operation Temperature                   | Topr   | -30~+85                            |      |

## Notes:

- 1.Specifications are subject to change without notice.
- 2.The data on this specification is for reference only and the actual data is in accordance with the acknowledgment.
- 3.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)

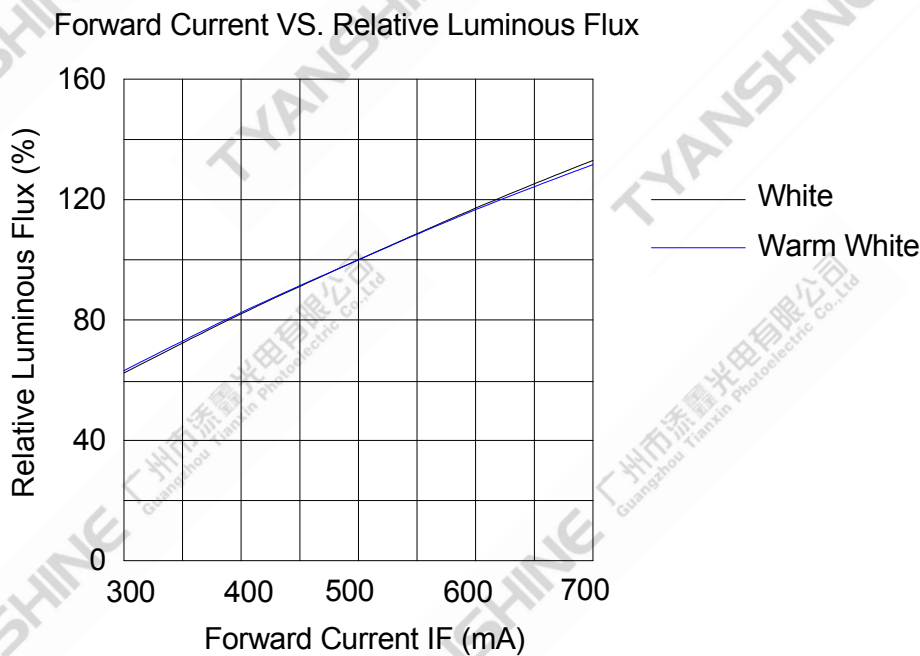
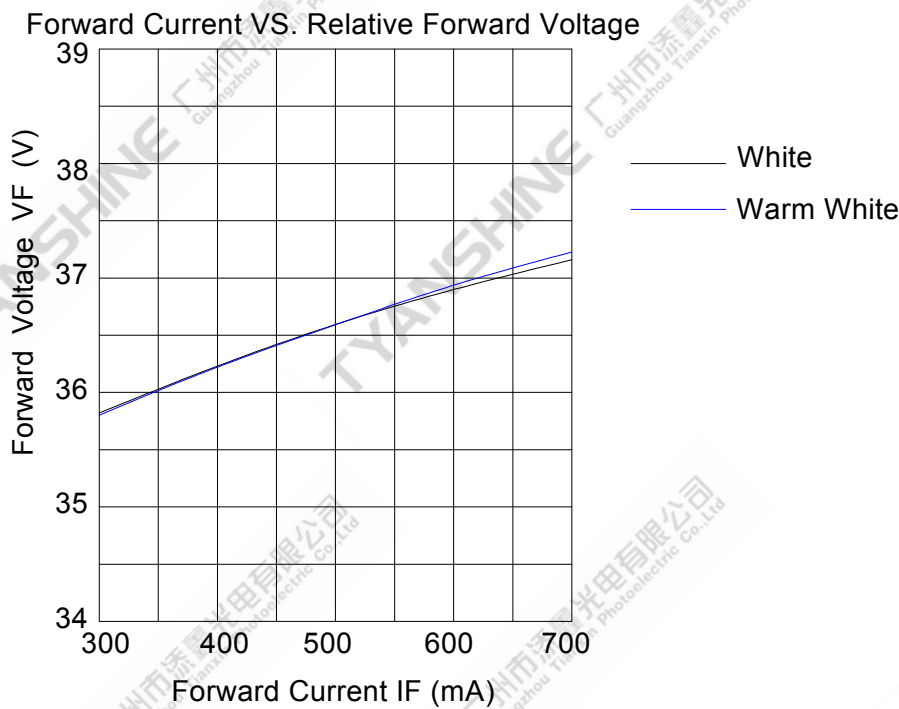
| Parameter                           | Symbol          | Condition | Emitting color | Min. | Typ. | Max. | Units   |
|-------------------------------------|-----------------|-----------|----------------|------|------|------|---------|
| Luminous Flux                       | $\phi_v$        | If=500mA  | S              | 1600 | 1800 | 2000 | lm      |
|                                     |                 |           | W              | 2000 | 2300 | 2600 |         |
| Forward Voltage                     | $V_f$           |           | S              | 35   | 37   | 39   | V       |
|                                     |                 |           | W              | 35   | 37   | 39   |         |
| Correlated Colour Temperature       | CCT             |           | S              | 2620 | 2700 | 2760 | K       |
|                                     |                 |           | W              | 5750 | —    | 6600 |         |
| 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 | $R\theta_{J-C}$ | —         | —              | —    | 1.45 | —    | K/W     |
| Color Rendering Index               | Ra              | If=500mA  | S              | 90   | —    | —    | —       |
|                                     |                 |           | W              | 90   | —    | —    |         |

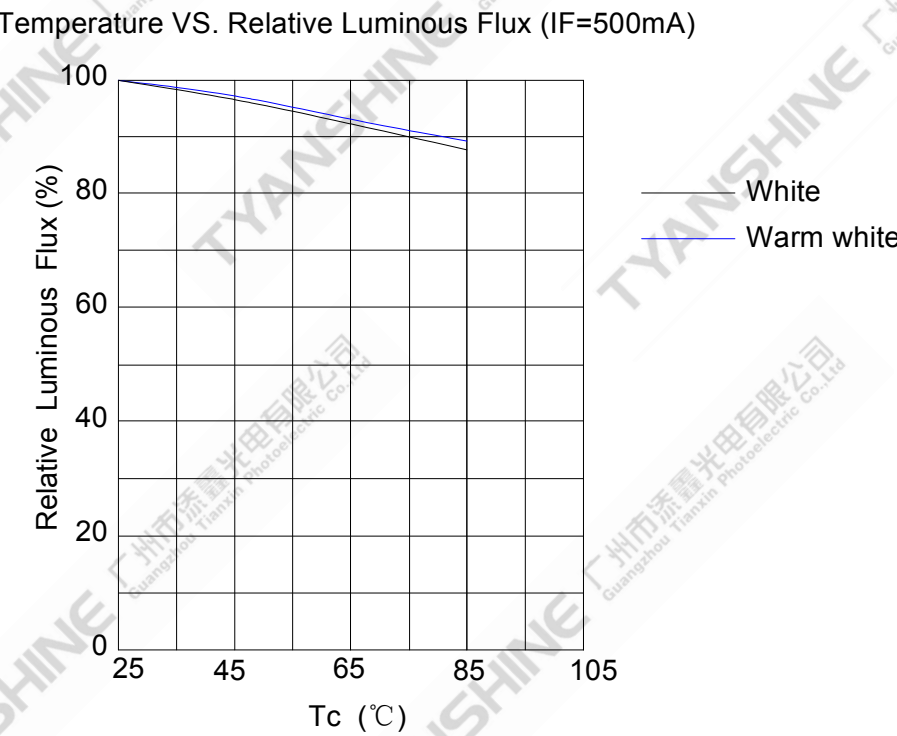
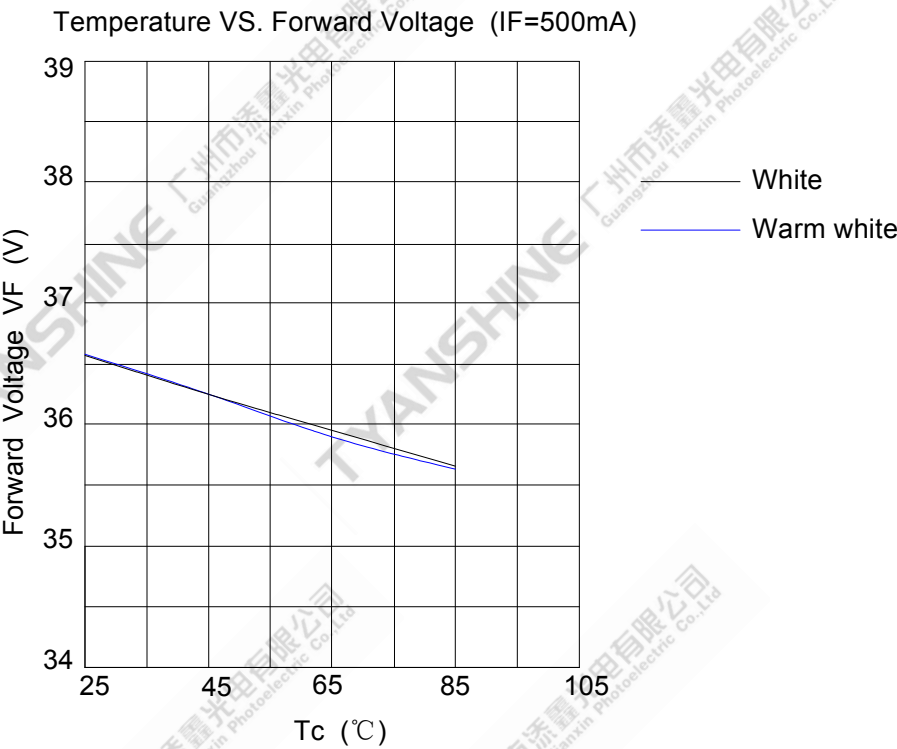
## Notes:

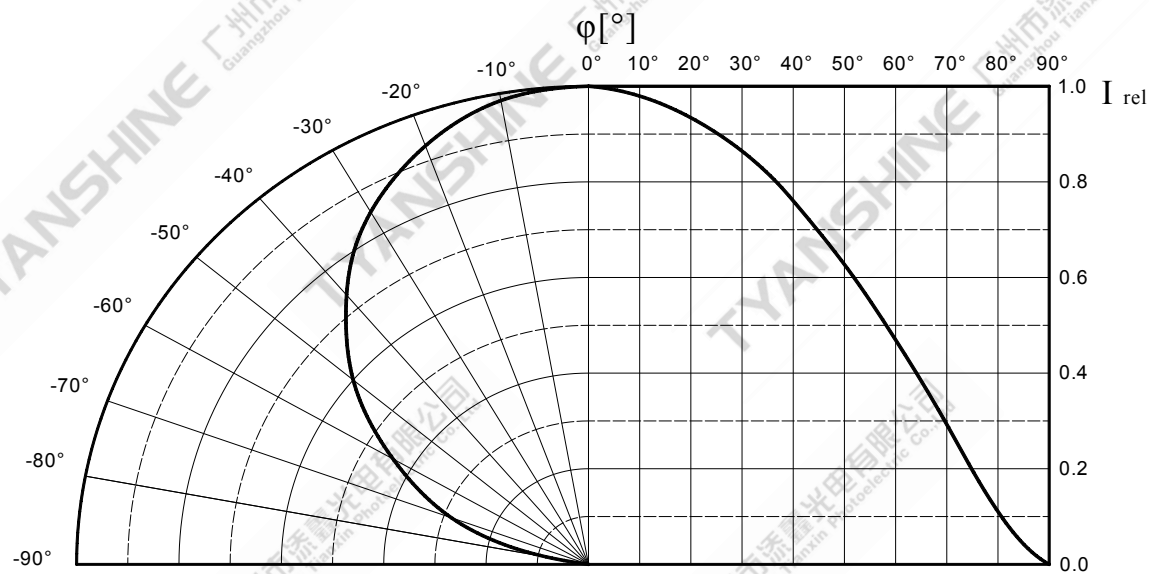
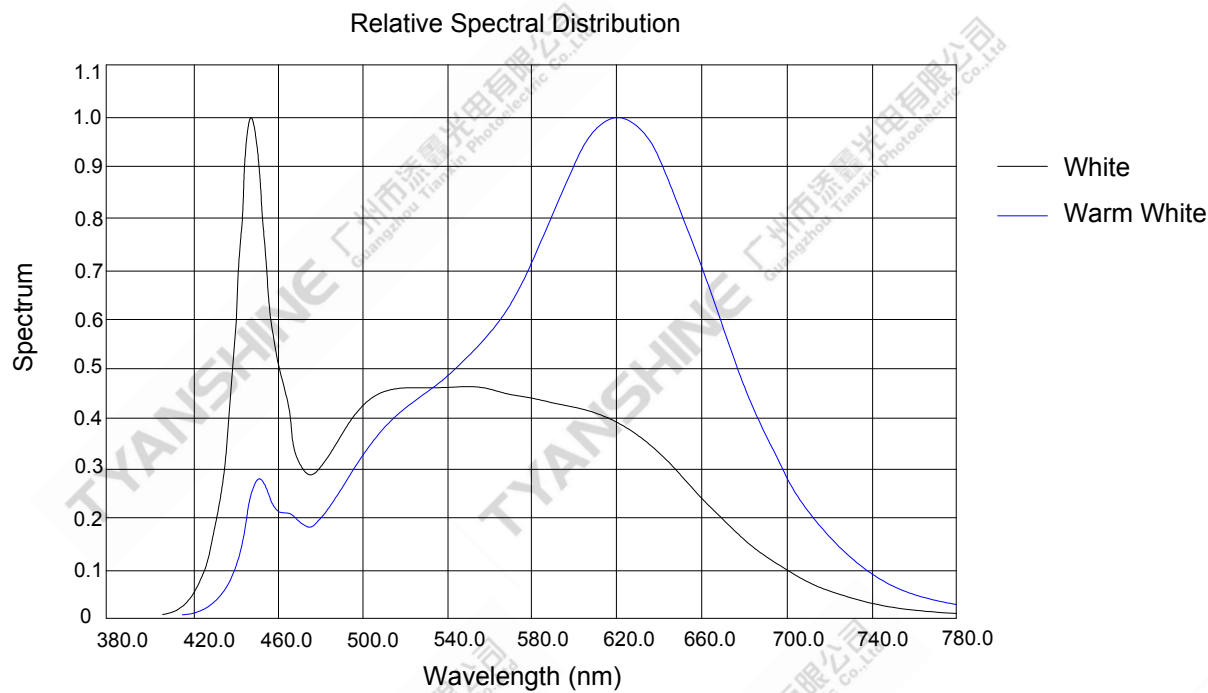
- 1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. $\theta_{1/2}$  is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3.Luminous flux measurement tolerance:  $\pm 15\%$ .
- 4.Forward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

Typical Electrical/Optical Characteristics Curves

(25℃ Ambient Temperature Unless Otherwise Noted)



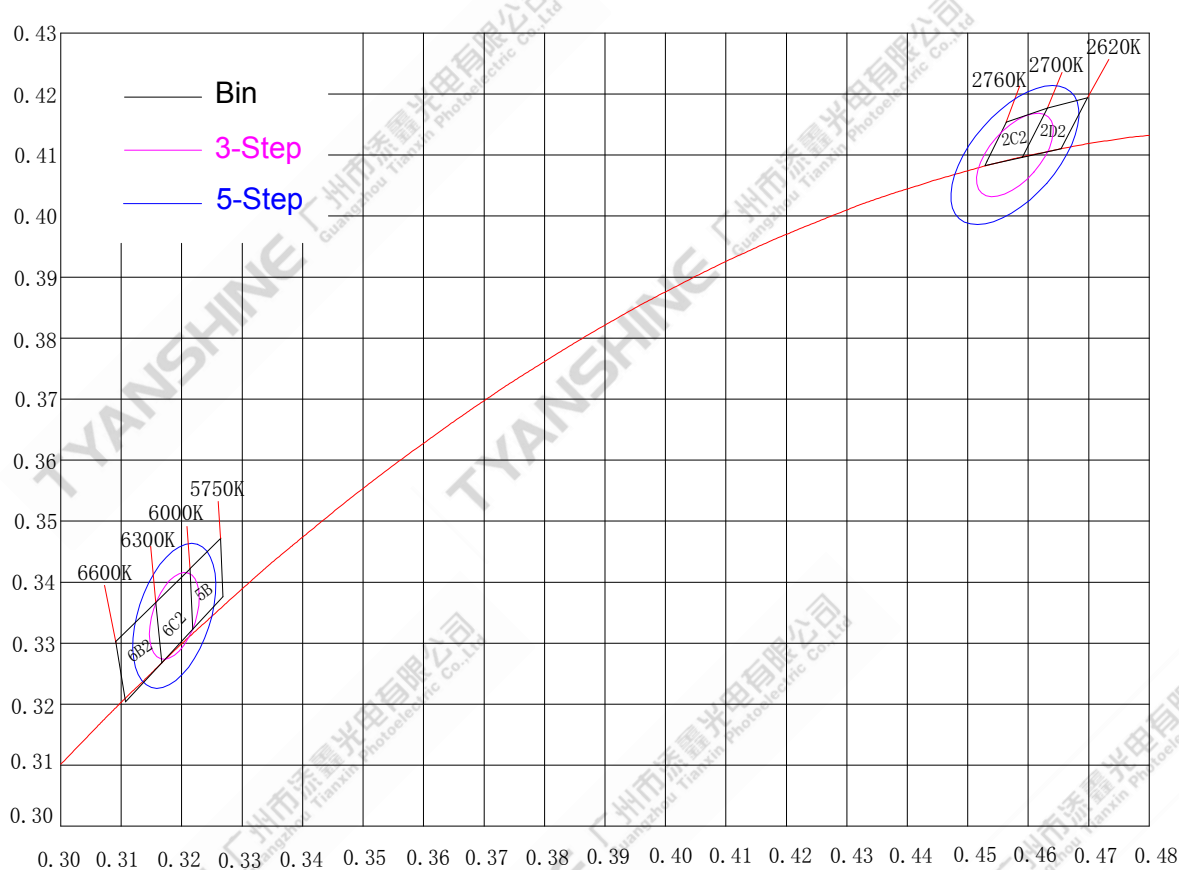




Notes:

- 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=500mA , Tc=25℃ )



Notes:

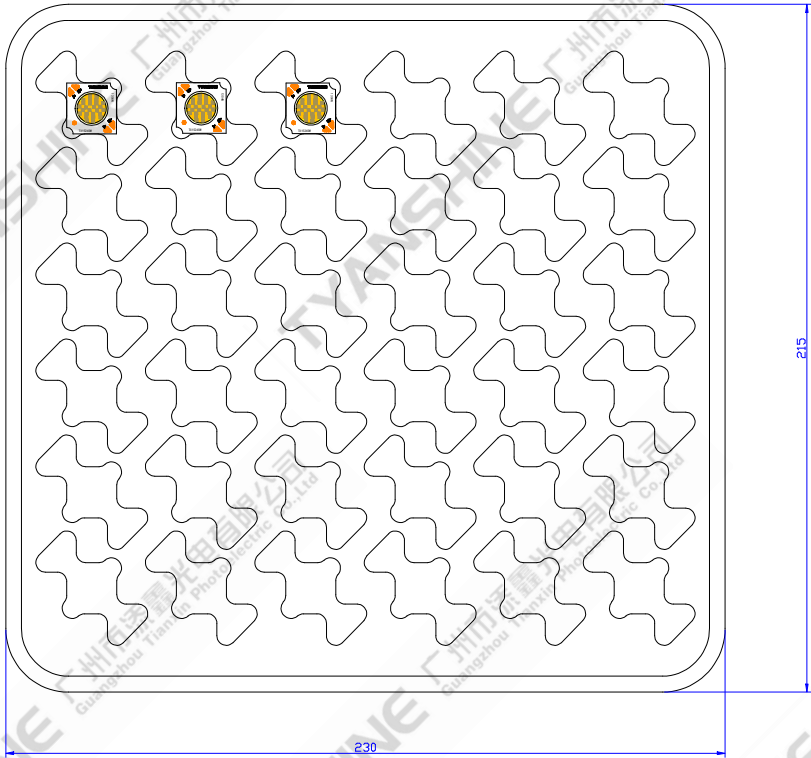
1. chromaticity (x, y) measurements tolerance: ±0.005.

Reliability Test

| Test Item                     | Test Condition                                     |
|-------------------------------|----------------------------------------------------|
| Continuous Operation Test     | IF=500mA 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            | -30 ℃ × 30 minutes – 100 ℃ × 30 minutes, 100 cycle |

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.