

# TX-1512SW11A-2757V36-10H80

## PRODUCT SPECIFICATION

### Features:

- ◆ Excellent transiting heat from LED chip operating under 500mA.
- ◆ 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:

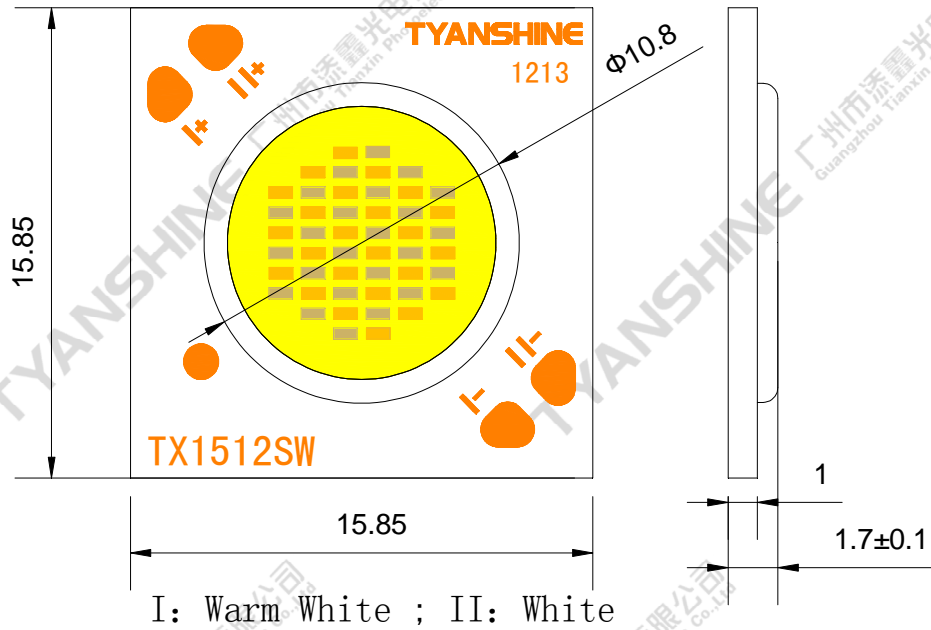
- ◆ White
- ◆ Warm white

### 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-1512SW11A-2757V36-10H80

TX	—	15	12	SW	11	A	—	2757	V36	—	10	H80
TYANSHINE	—	series	watt typ	performance	LES	texture	—	CCT	VOLTs	—	BOM	Ra

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## Absolute Maximum Ratings

Parameter	Symbol	Ratings	Unit	
Forward Current	IF	500	mA	
Reverse Voltage	V <sub>R</sub>	Not designed for reverse operation	V	
Power Dissipation	P <sub>D</sub>	W	18	W
		S	18	
Junction Temperature	T <sub>j</sub>	W	135	°C
		S	135	
Case Temperature (C)	T <sub>C</sub>	85	°C	
Electrostatic Discharge Threshold (ESD)	ESD	2000	V	
Storage Temperature	T <sub>stg</sub>	-30~+100	°C	
Operation Temperature	T <sub>opr</sub>	-30~+80		

**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.

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

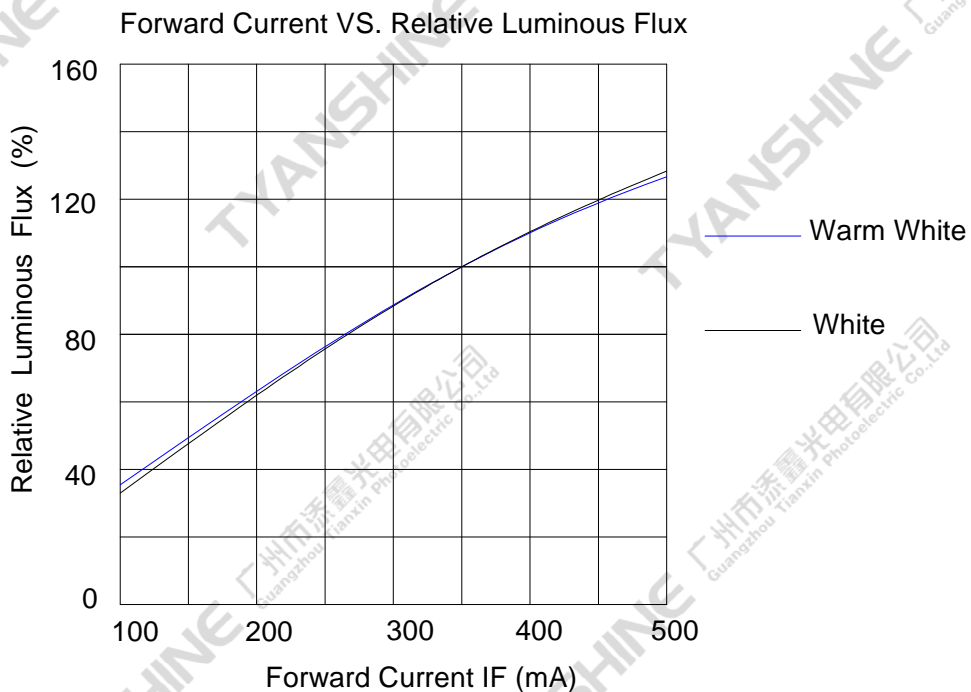
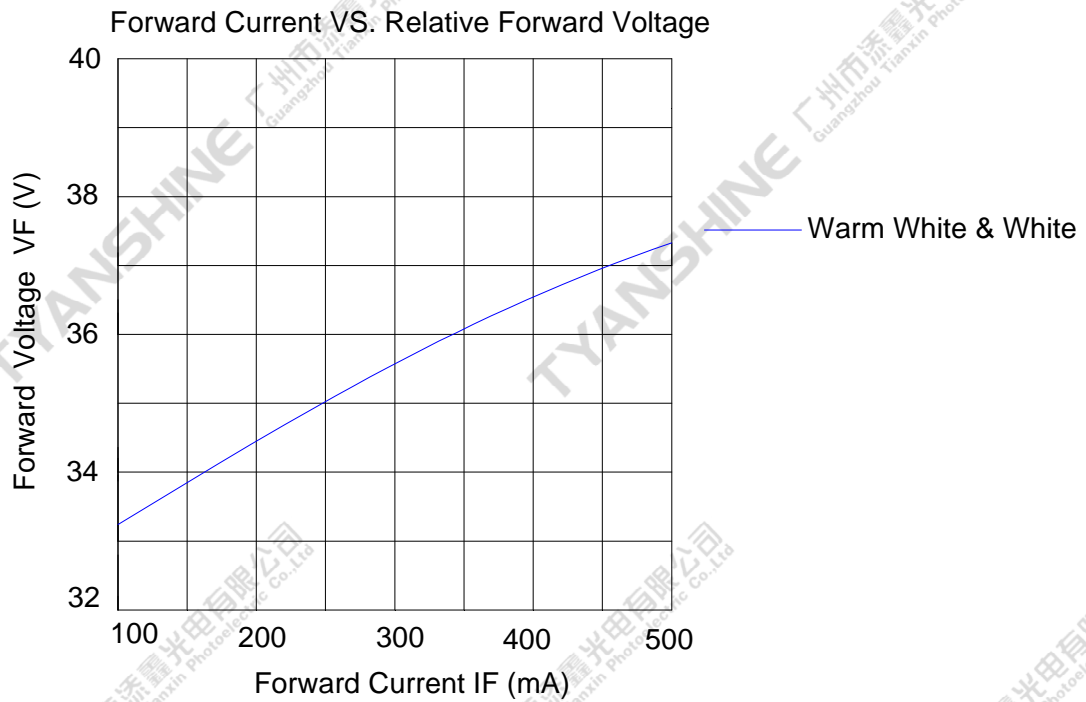
Parameter	Symbol	Condition	Emitting color	Min.	Typ.	Max.	Units
Luminous Flux	$\phi_v$	If=350mA	S	—	1200	—	lm
			W	—	1500	—	
Forward Voltage	$V_f$		S	34	36	38	V
			W	34	36	38	
Correlated Colour Temperature	CCT		S	—	2700	—	K
			W	—	5700	—	
Viewing Angle at 50% IV	$2\theta_{1/2}$		S	—	115	—	Deg
			W	—	115	—	
Reverse Current	$I_R$		—	—	—	—	$\mu A$
Thermal Resistance Junction to Case	$R\theta_{J-C}$		If=350mA	S	—	1.04	—
		W		—	1.04	—	
Temperature Coefficient of Voltage	$V\Delta F/T$	S		—	-15	—	mV/°C
		W		—	-15	—	
Color Rendering Index	Ra	S		—	80	—	—
		W		—	80	—	

**Notes:**

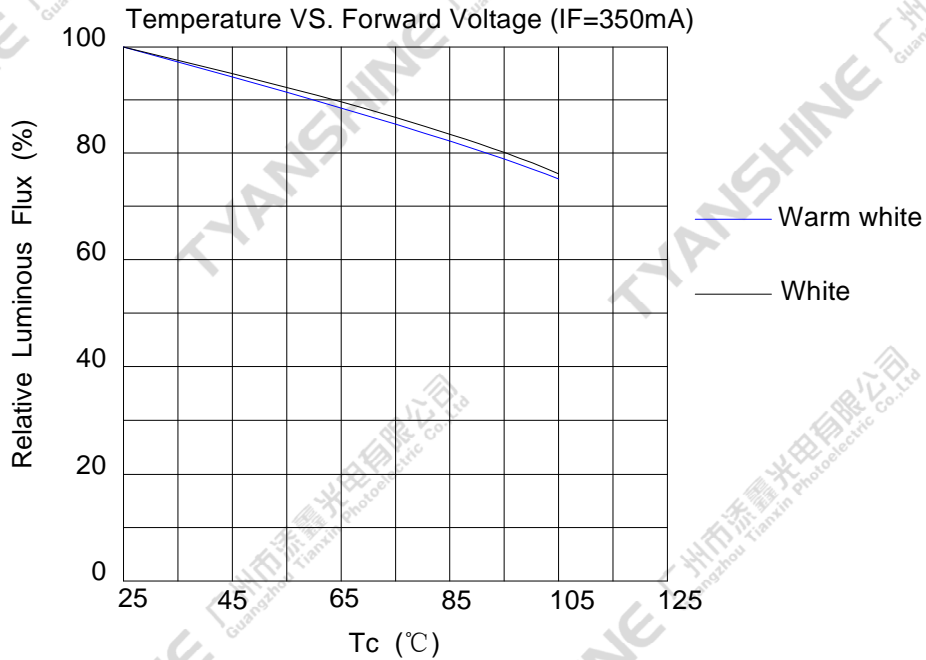
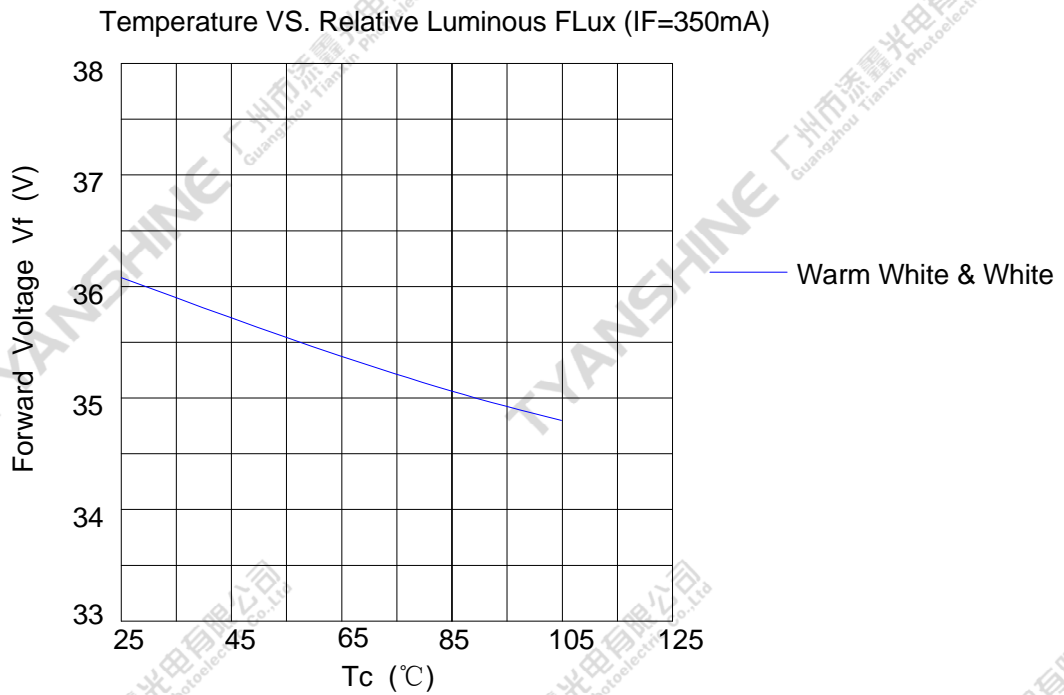
- Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- $\theta_{1/2}$  is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- Luminous flux measurement tolerance:  $\pm 15\%$ .
- Forward voltage measurement tolerance:  $\pm 0.15V$ .

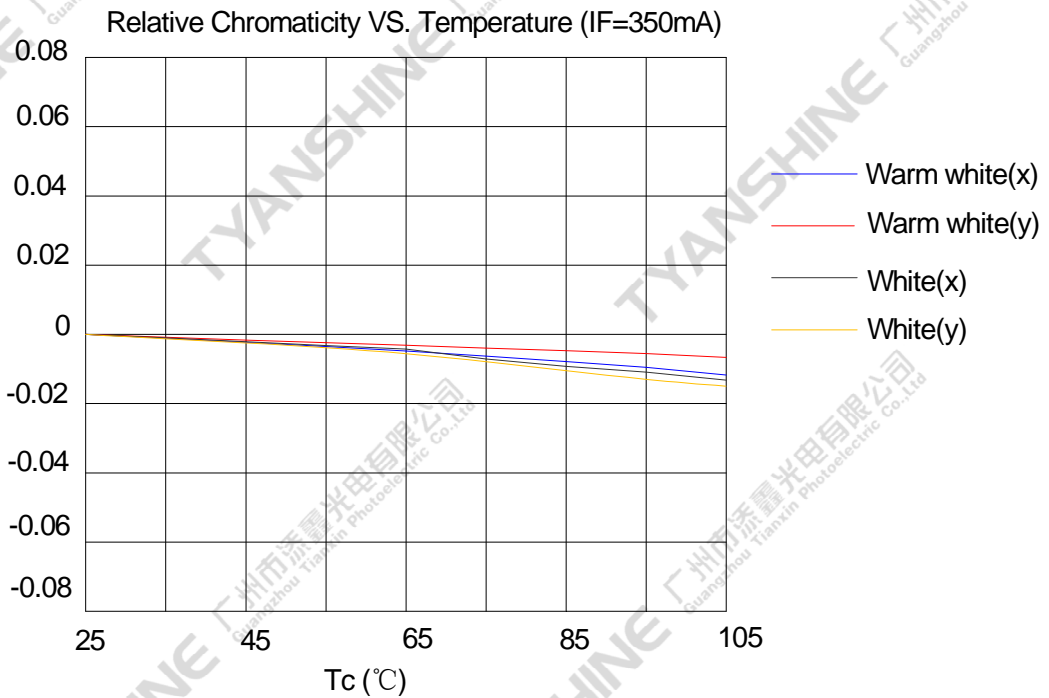
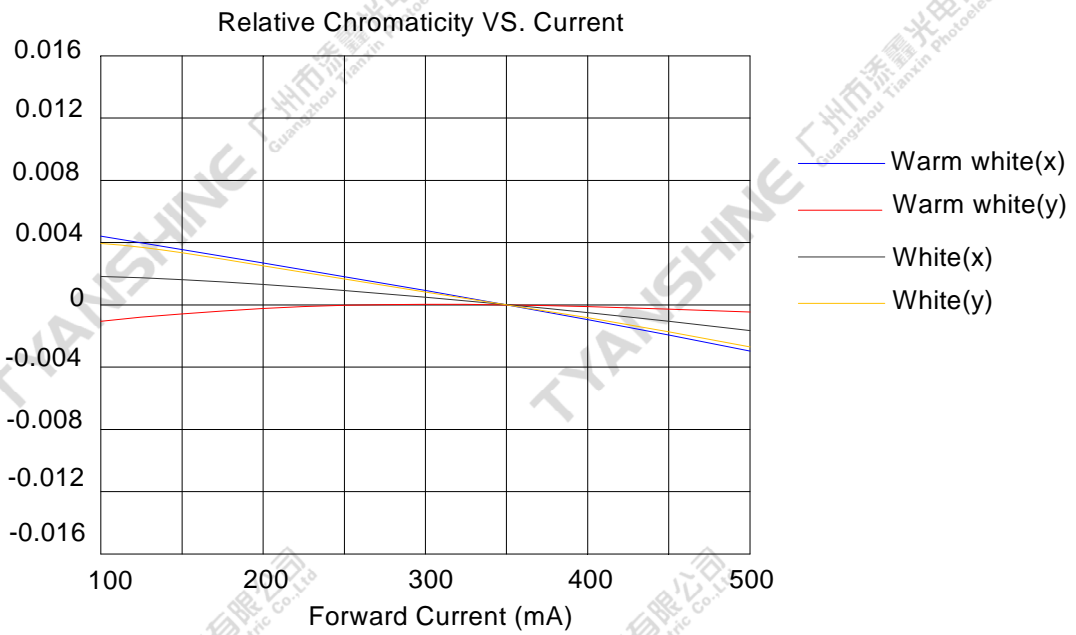
## Typical Electrical/Optical Characteristics Curves

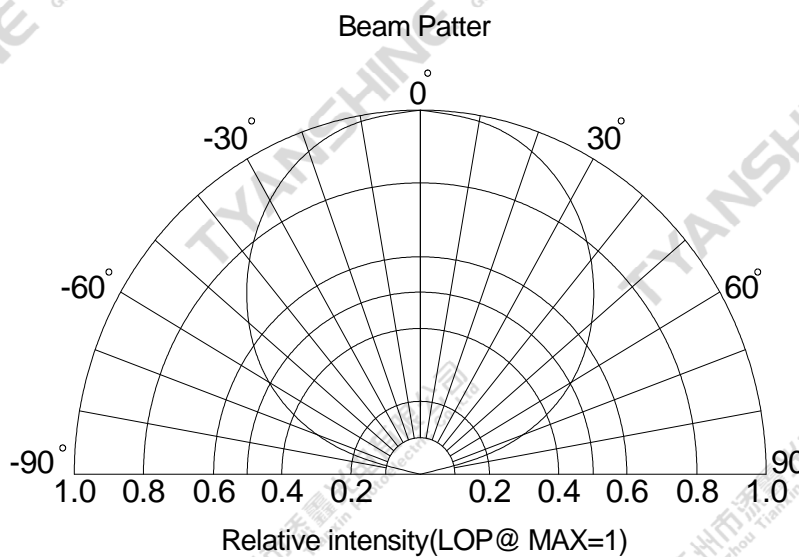
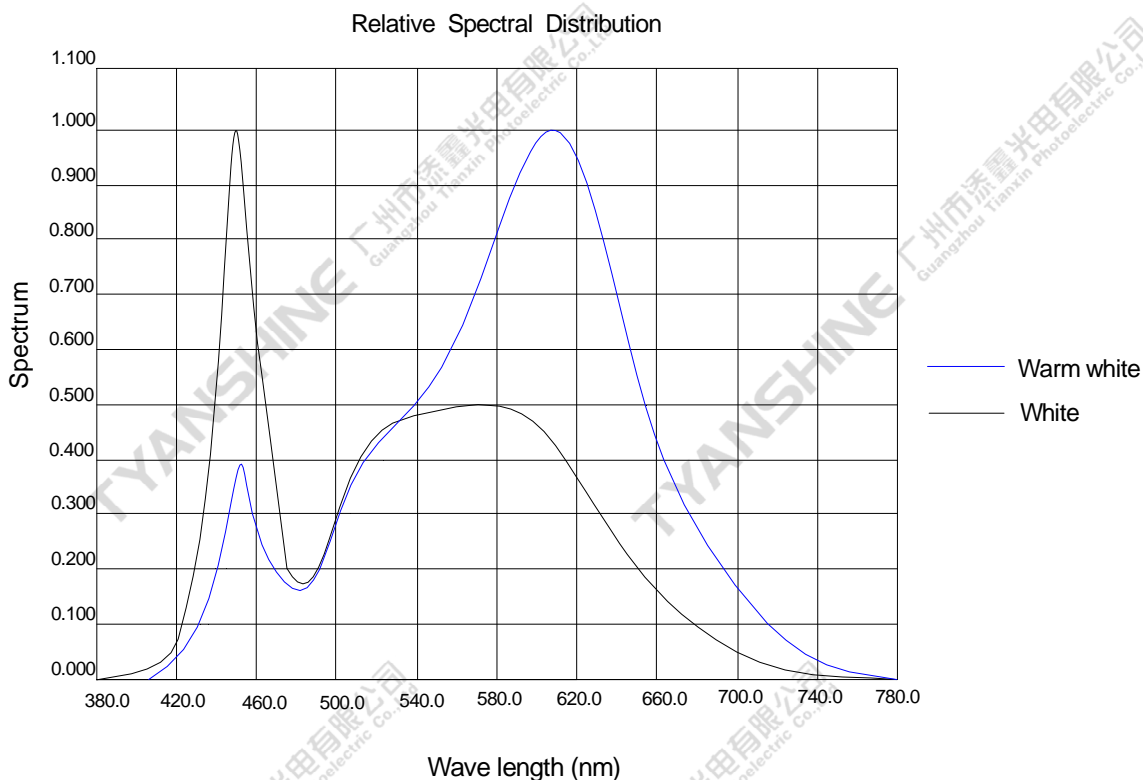
(25°C Ambient Temperature Unless Otherwise Noted)



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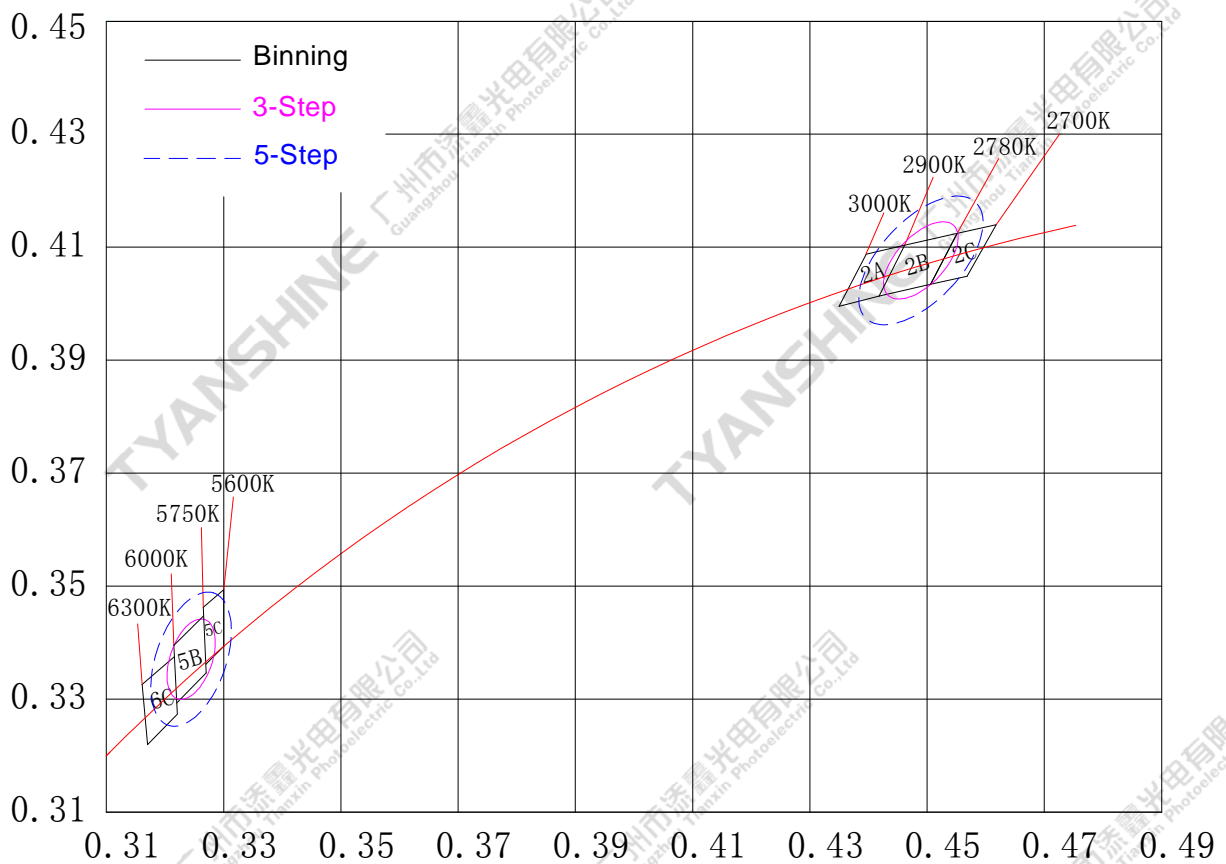
**Notes:**

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  $\pm 5^\circ$ .

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**Chromaticity Coordinates (Condition : IF=350mA , Tc=25℃ )**

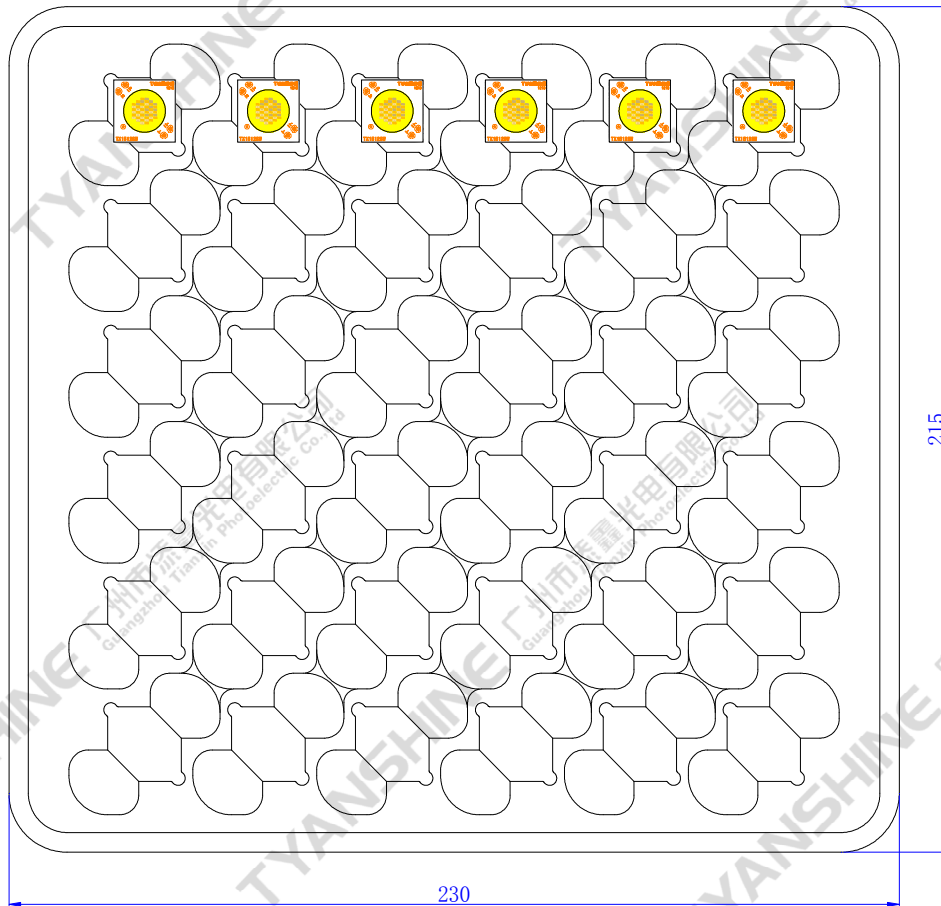


**Reliability Test**

Test Item	Test Condition
Continuous Operation Test	IF=350mA 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.

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