

# 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:

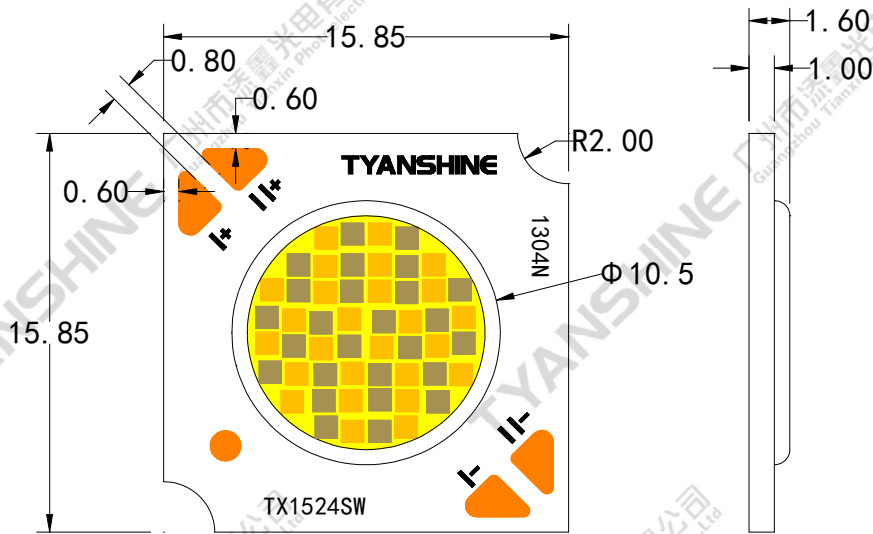
- ◆ White
- ◆ Warm white

### Applications:

- ◆ Commercial lighting
- ◆ General Lighting

Part No.	TX-1524SW11A-2760V39-03H90	Spec No.	WKF-DA0092	Page	1 of 10
----------	----------------------------	----------	------------	------	---------

**Package Dimensions:**



I: Warm White (S) ; II: White (W)

**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 typ	performance	LES	texture	—	CCT	VOLTs	—	BOM	Ra

Part No.	TX-1524SW11A-2760V39-03H90	Spec No.	WKF-DA0092	Page	2 of 10
----------	----------------------------	----------	------------	------	---------

**Absolute Maximum Ratings**

Parameter	Symbol	Ratings	Unit
Forward Current	IF	700	mA
Reverse Voltage	V <sub>R</sub>	Not designed for reverse operation	V
Power Dissipation	P <sub>D</sub>	S	27
		W	27
		S+W	27
Junction Temperature	T <sub>j</sub>	S	150
		W	150
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~+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=500mA	S	1600	1800	—	lm
			W	2100	2300	—	
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	$I_R$		—	—	—	—	$\mu A$
Color Rendering Index	Ra		S	90	—	—	—
		W	90	—	—		

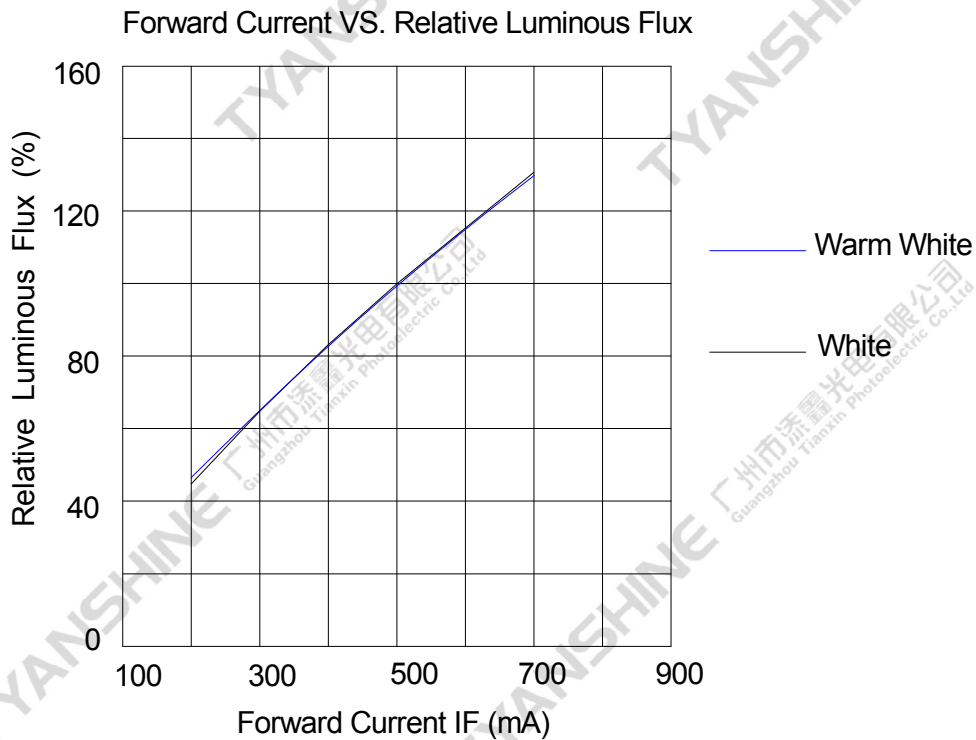
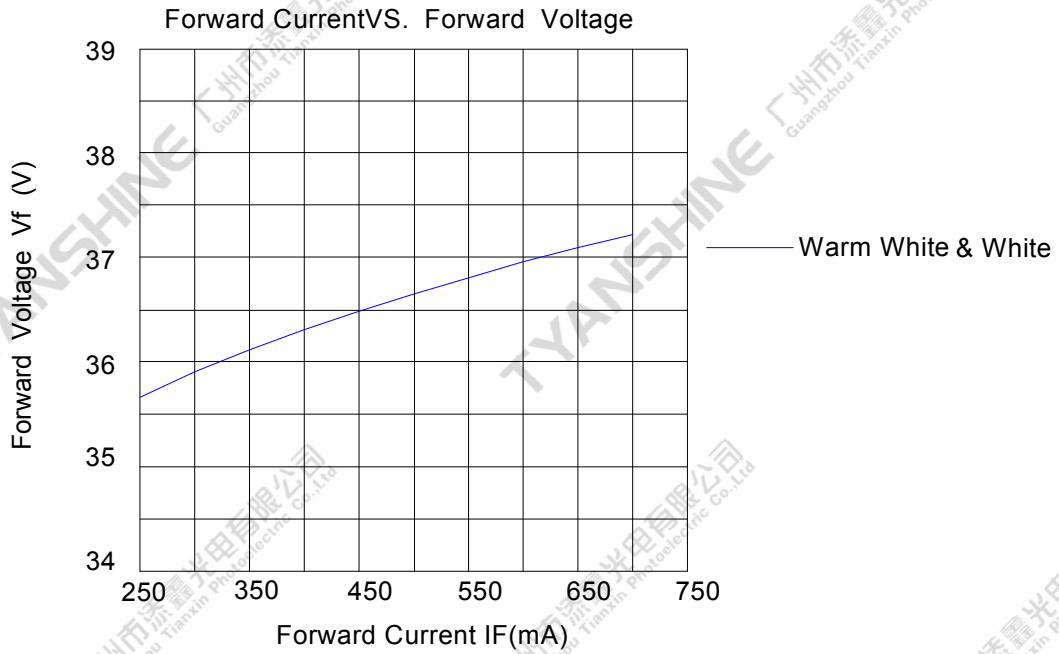
**Notes:**

- 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:±10%.
- 4.Forward voltage measurement tolerance:±3%.
- 5.Ra measurement tolerance: ±2.

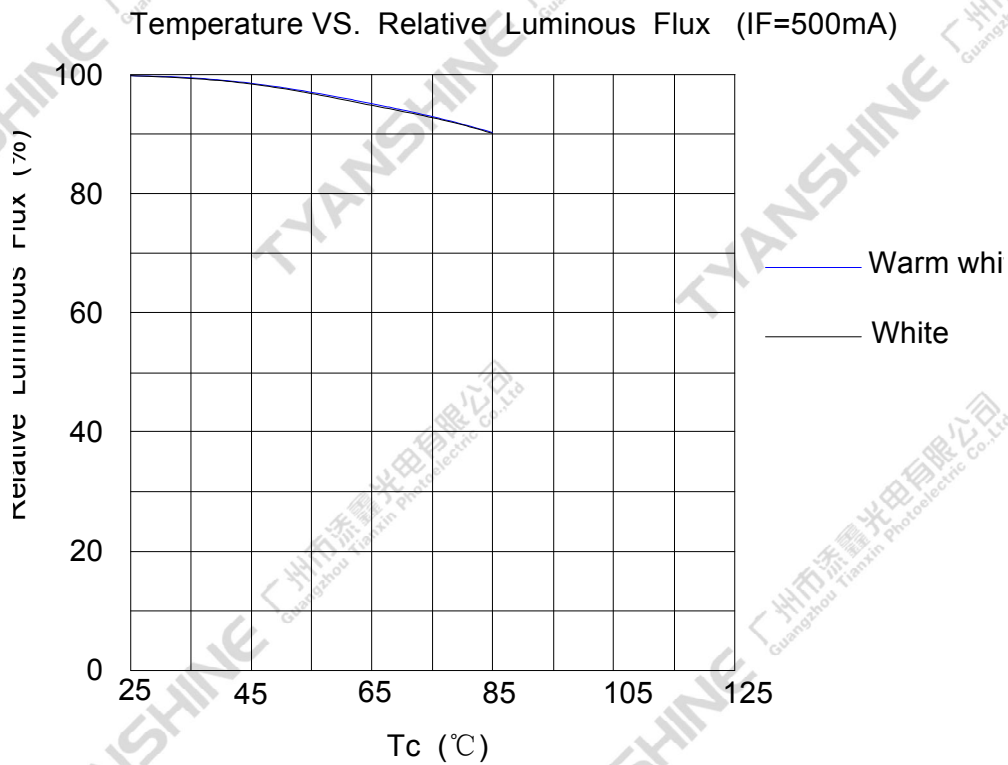
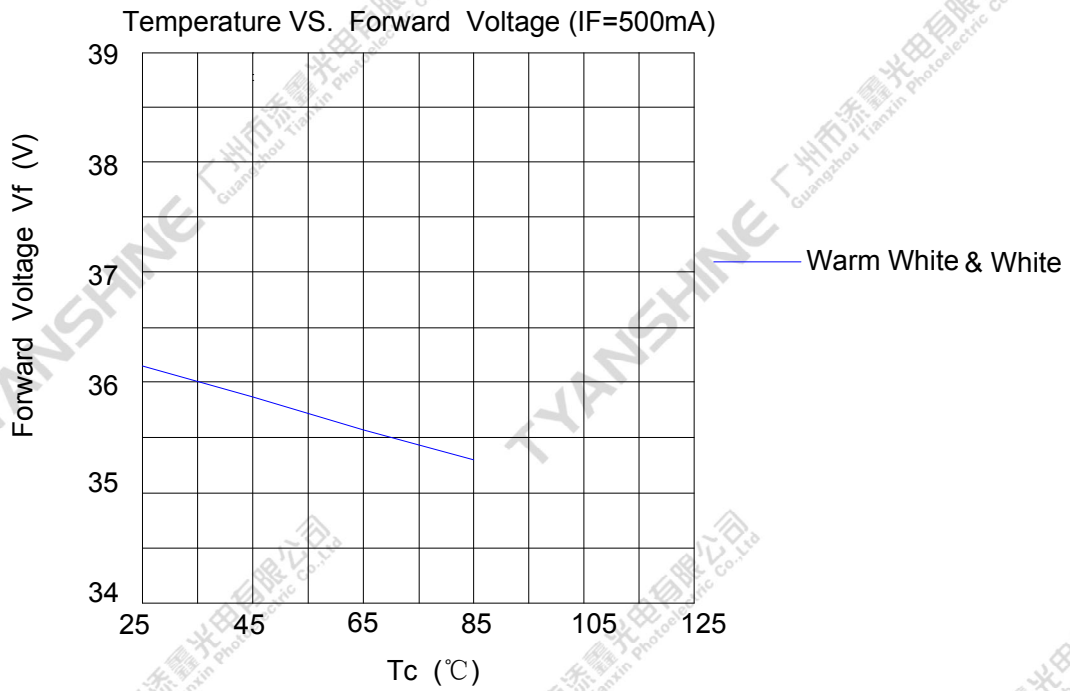
Part No.	TX-1524SW11A-2760V39-03H90	Spec No.	WKF-DA0092	Page	4 of 10
----------	----------------------------	----------	------------	------	---------

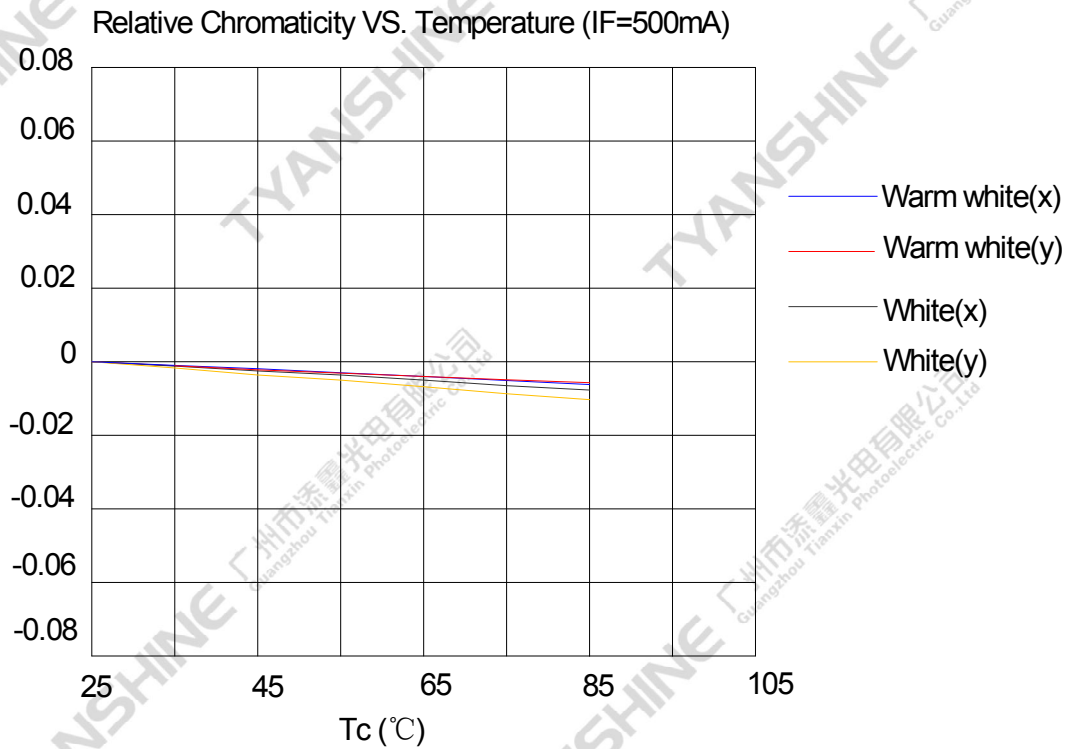
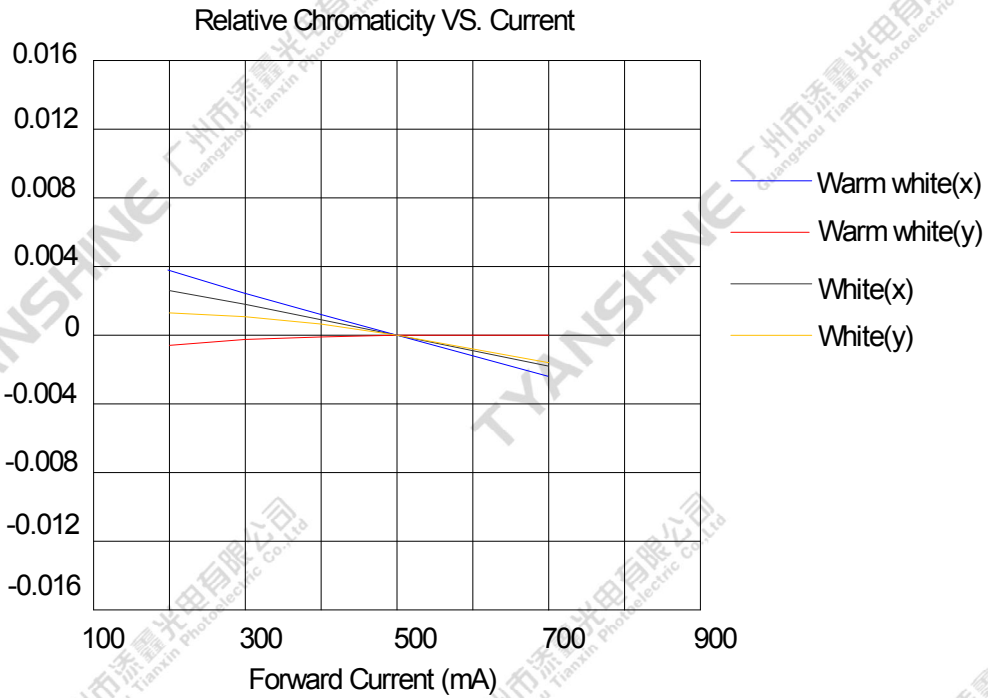
## Typical Electrical/Optical Characteristics Curves

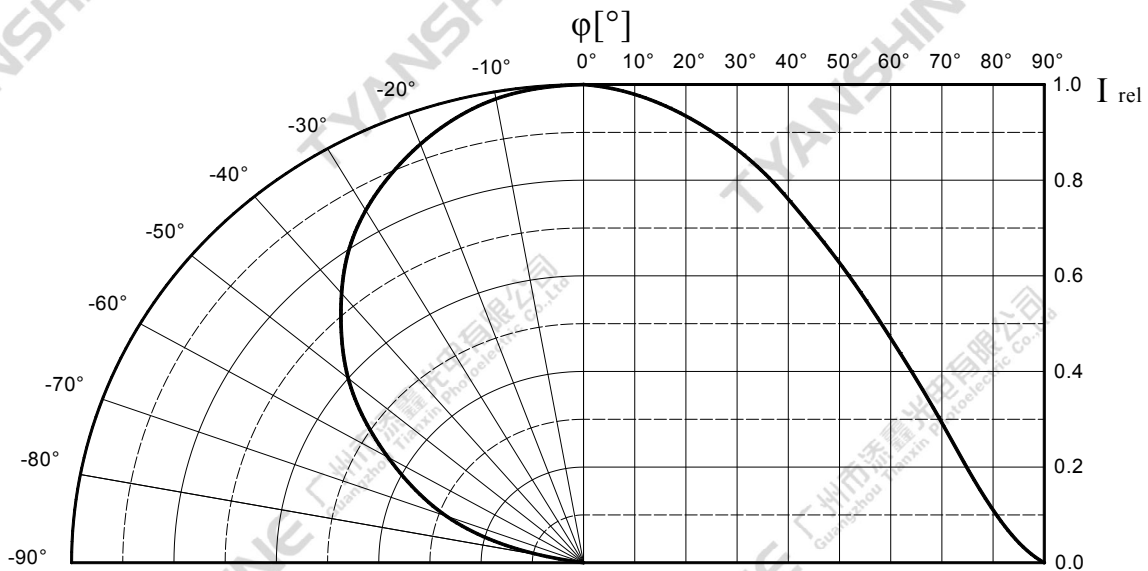
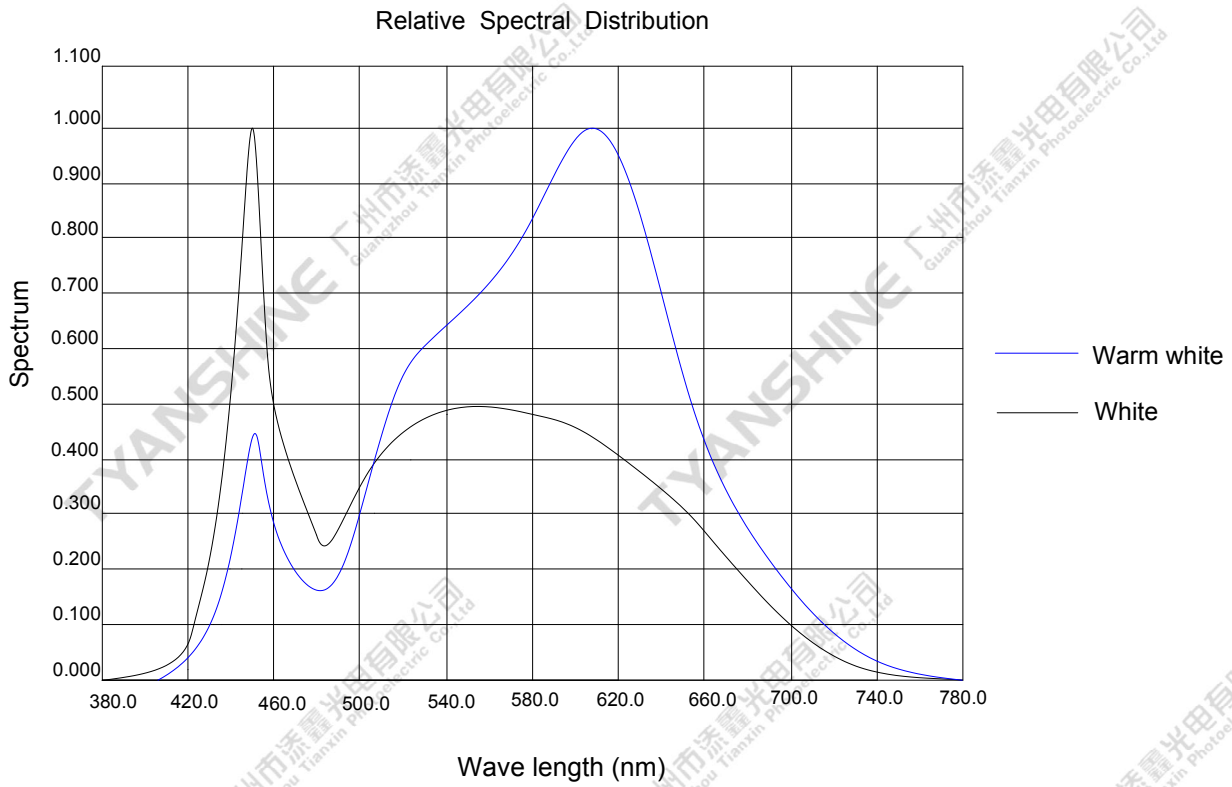
(25°C Ambient Temperature Unless Otherwise Noted)



Part No.	TX-1524SW11A-2760V39-03H90	Spec No.	WKF-DA0092	Page	5 of 10
----------	----------------------------	----------	------------	------	---------







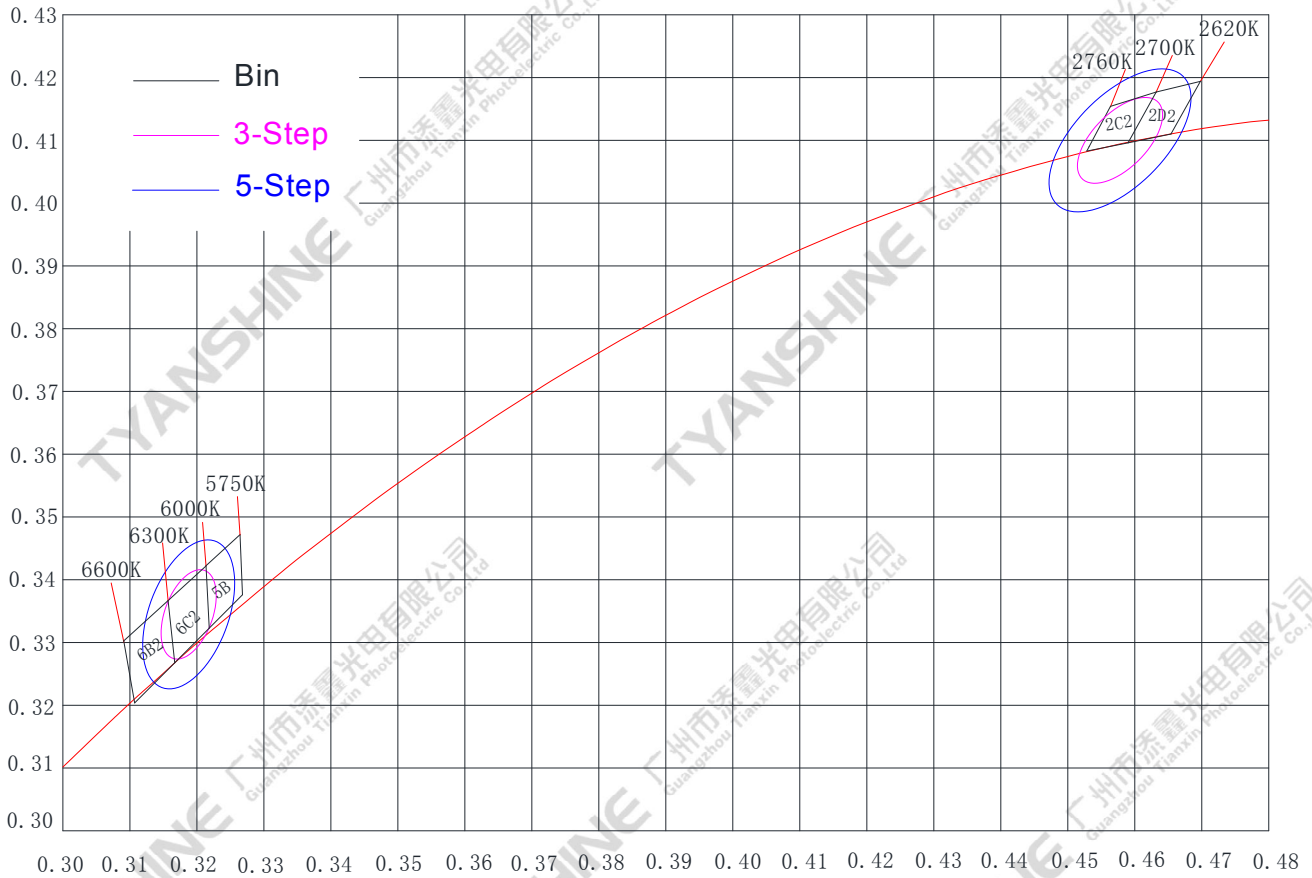
**Notes:**

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  $\pm 5^\circ$ .

Part No.	TX-1524SW11A-2760V39-03H90	Spec No.	WKF-DA0092	Page	8 of 10
----------	----------------------------	----------	------------	------	---------



**Chromaticity Coordinates ( Condition : IF=500mA , Tc=25°C )**



**Notes:**

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

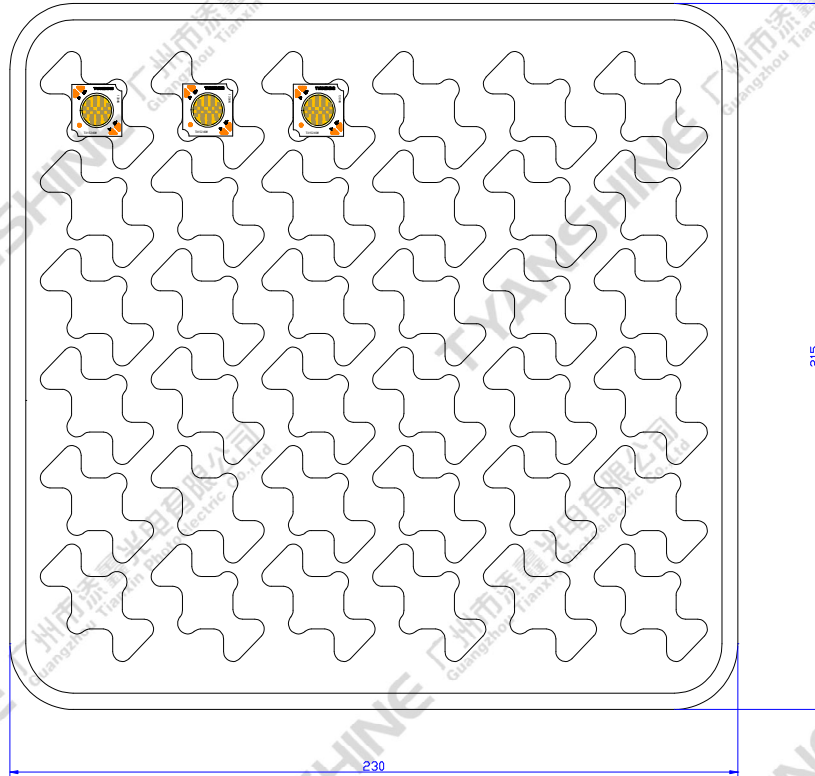
**Reliability Test**

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

Part No.	TX-1524SW11A-2760V39-03H90	Spec No.	WKF-DA0092	Page	9 of 10
----------	----------------------------	----------	------------	------	---------

**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.

Part No.	TX-1524SW11A-2760V39-03H90	Spec No.	WKF-DA0092	Page	10 of 10
----------	----------------------------	----------	------------	------	----------