

TX-1312SW08A-2760V39-03H90

PRODUCT SPECIFICATION

Features:

- ◆Excellent transiting heat from LED chip operating under 400mA
- ◆Mixing any two colors of light,there will be no partial color and color spots uneven phenomenon.
- ◆High luminous output.
- ◆No UV.
- ◆Encapsulated materials are environmentally certified and meet environmental requirements.

Chip Material:

- ◆GaInN

Emitting Color:

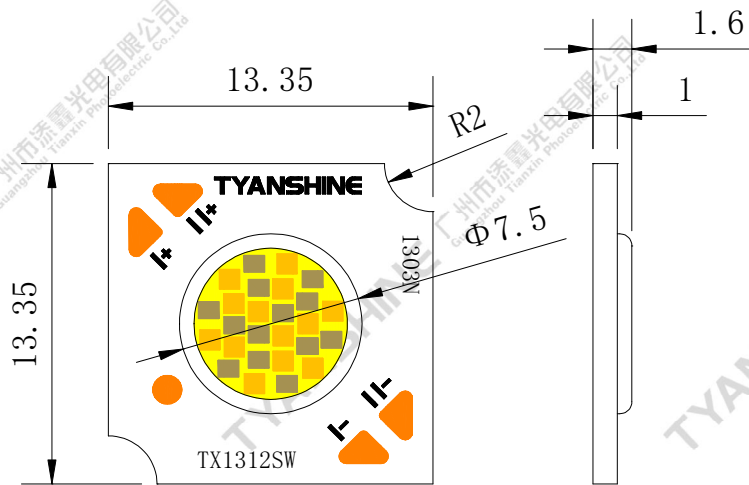
- ◆White
- ◆Warm white

Applications:

- ◆Commercial lighting
- ◆General Lighting

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Package Dimensions:



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

Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.25 mm (0.01") unless otherwise noted.

Code Formats:

TX-1312SW08A-2760V39-03H90

TX	—	13	12	SW	08	A	—	2760	V39	—	03	H90
TYANSHINE	—	series	watt typ	performance	LES	texture	—	CCT	VOLTs	—	BOM	Ra

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Ratings	Unit
Forward Current	IF	400	mA
Reverse Voltage	VR	Not designed for reverse operation	V
Power Dissipation	PD	S	15
		W	15
		S+W	15
Junction Temperature	Tj	S	150
		W	150
Case Temperature (C)	Tc	85	°C
Electrostatic Discharge Threshold (ESD)	ESD	2000	V
Storage Temperature	Tstg	-30~+100	°C
Operation Temperature	Topr	-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.

C Characteristics (Ta=25°C,W/S:IF=250mA):

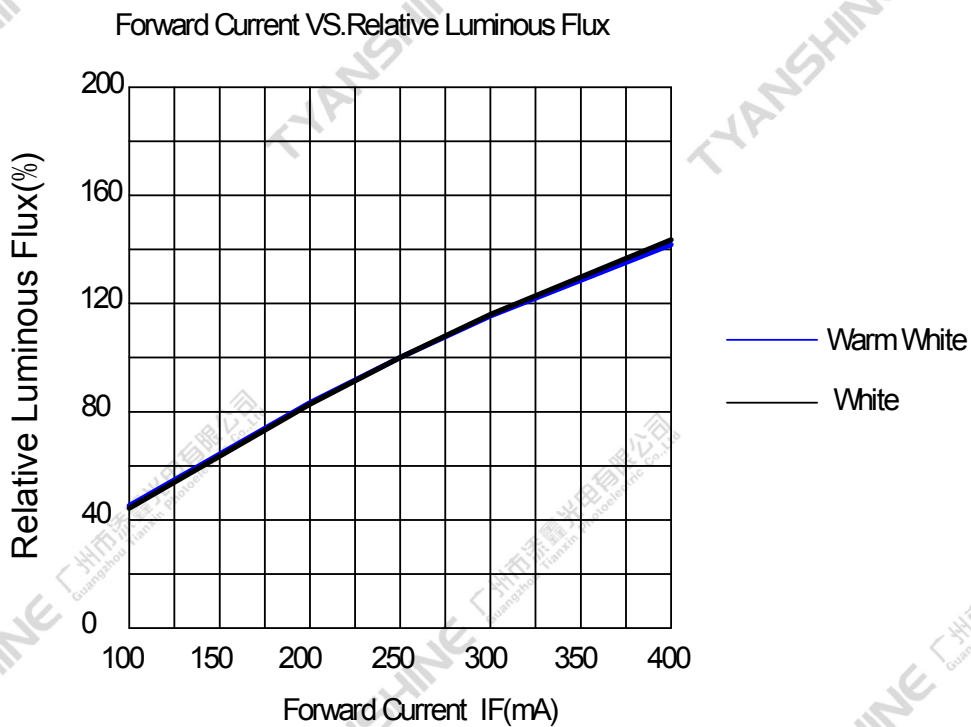
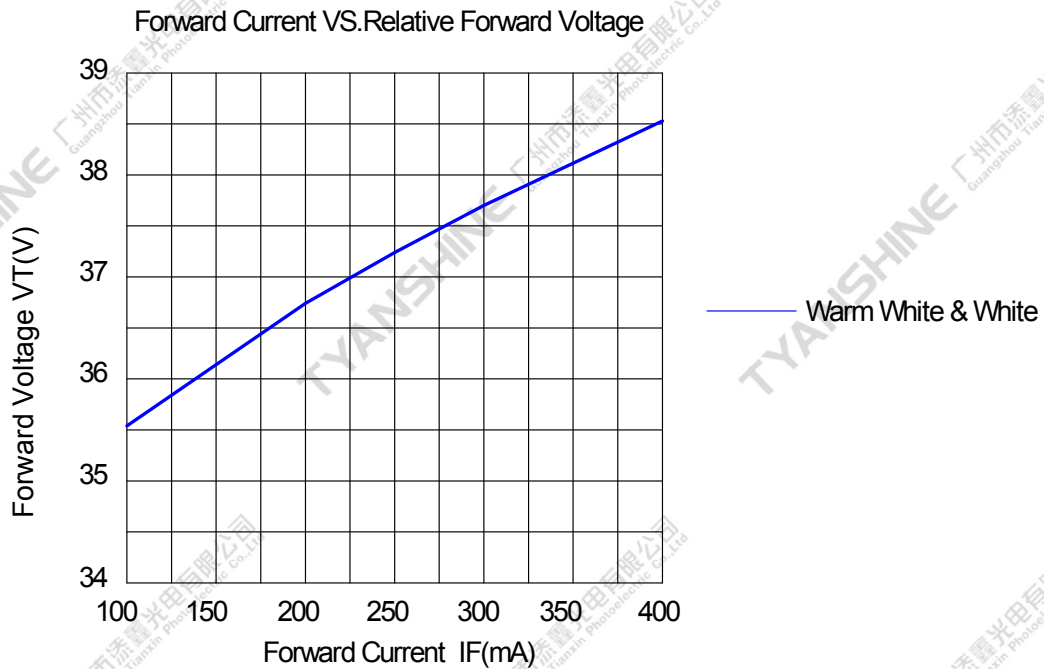
Parameter	Symbol	Condition	Emitting color	Min.	Typ.	Max.	Units
Luminous Flux	Φ_v	If=250mA	S	800	900	—	lm
			W	900	1020	—	
Forward Voltage	V_f		S	35	37	39	V
			W	35	37	39	
Correlated Colour Temperature	CCT		S	2620	2700	2780	K
			W	5750	6000	6700	
Viewing Angle at 50% IV	$2\theta_{1/2}$		S	—	115	—	Deg
			W	—	115	—	
Reverse Current	I_R		—	—	—	—	μA
Thermal Resistance Junction to Case	$R_{\theta J-C}$		If=250mA	—	—	3.7	—
Color Rendering Index	Ra	S		90	—	—	—
		W		90	—	—	

Notes:

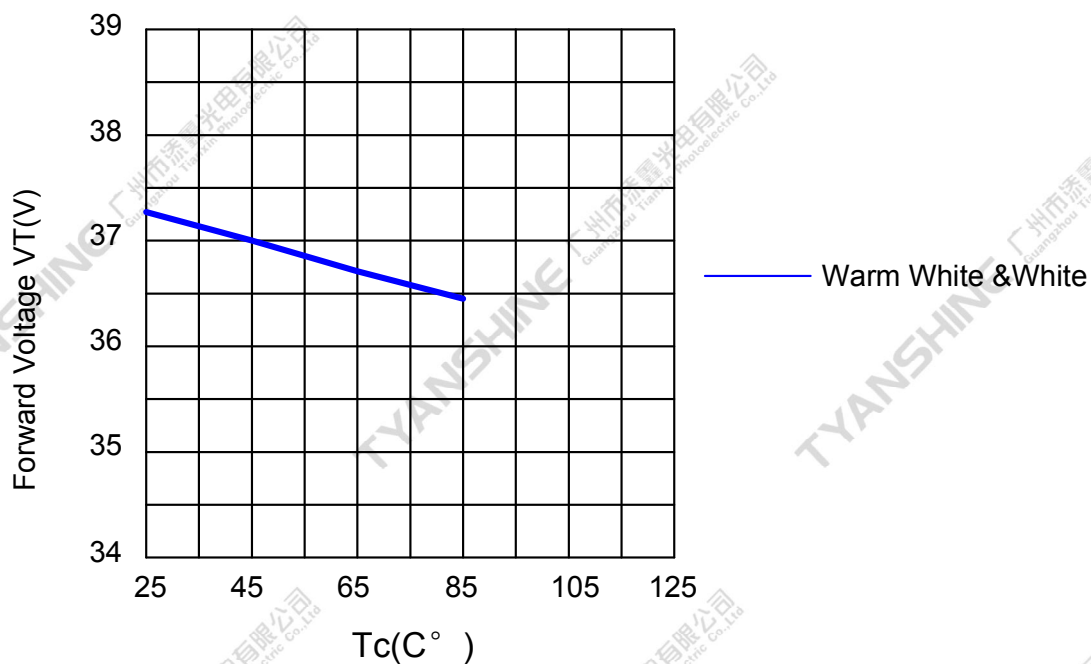
- Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity
- The dominant wavelength (λ_d) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.
- Flux is measured with an accuracy of $\pm 15\%$.
- Forward voltage is measured with an accuracy of $\pm 3\%$.

Typical Electrical / Optical Characteristics Curves

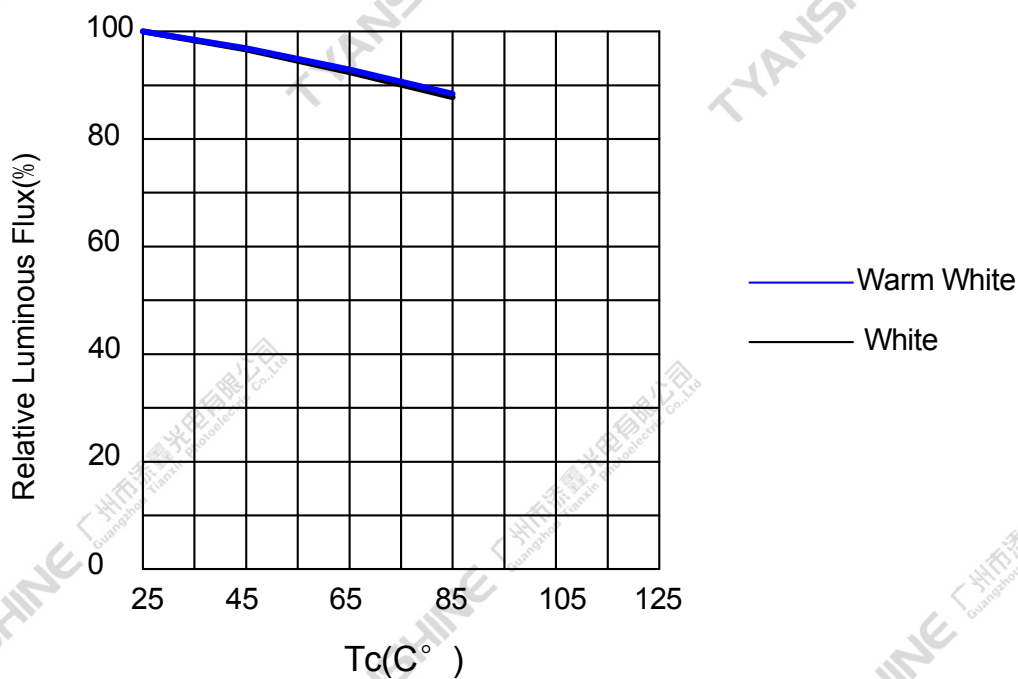
(25°C Ambient Temperature Unless Otherwise Noted)



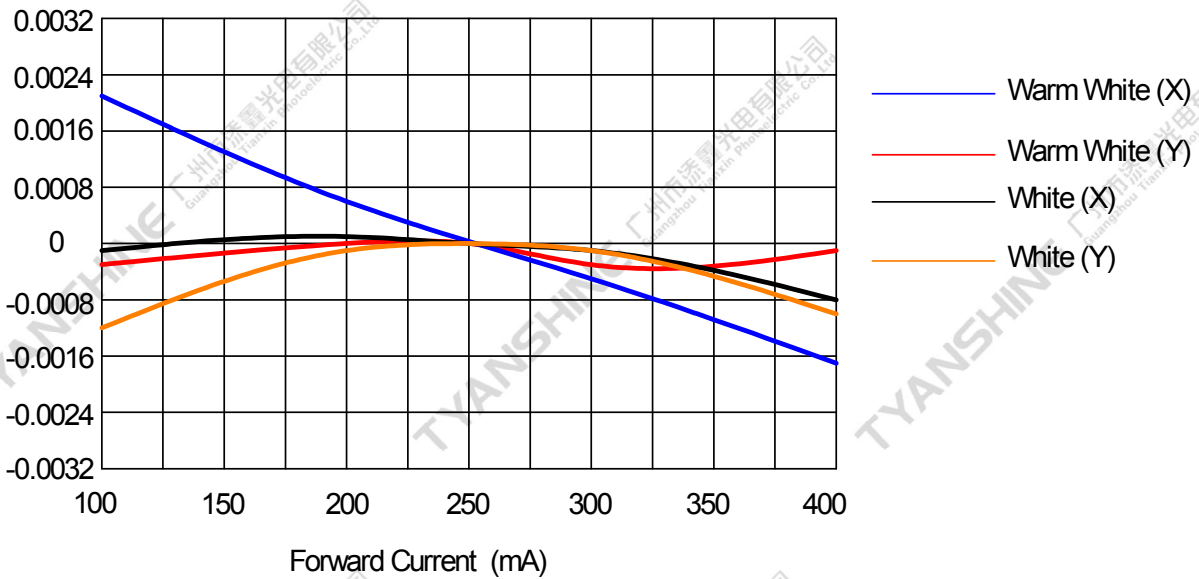
Temperature VS. Forward Voltage (IF=250mA)



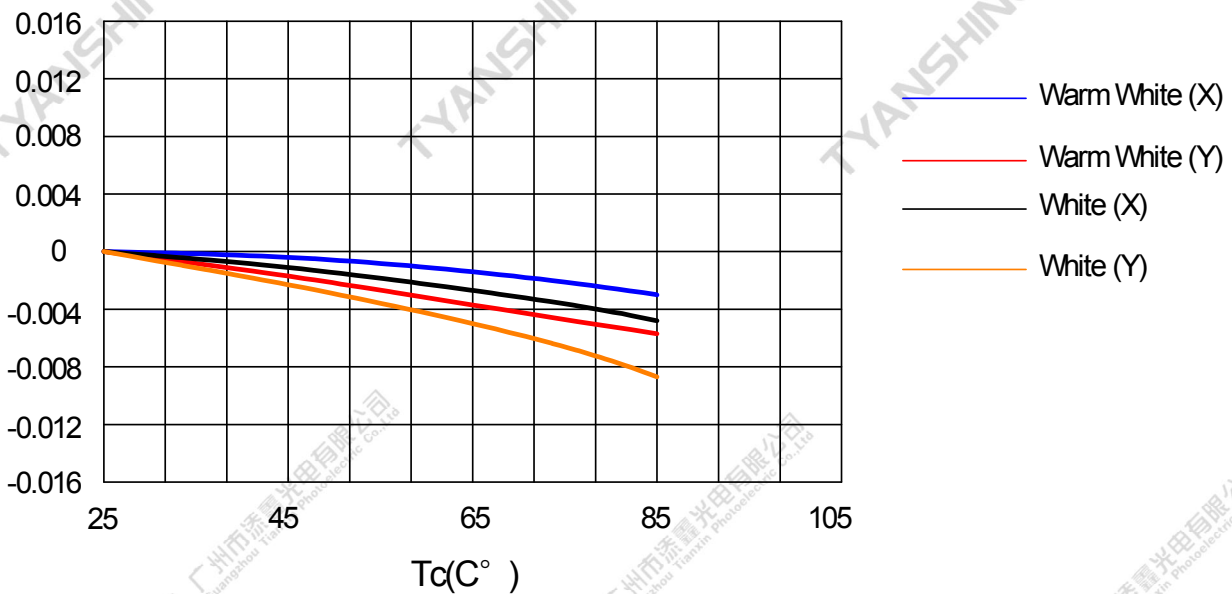
Temperature VS. Relative Luminous Flux (IF=250mA)

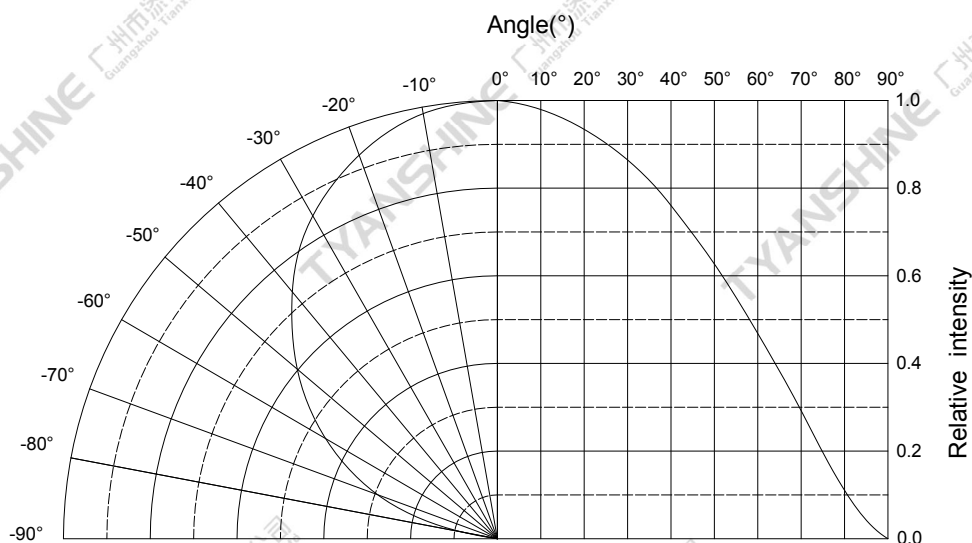
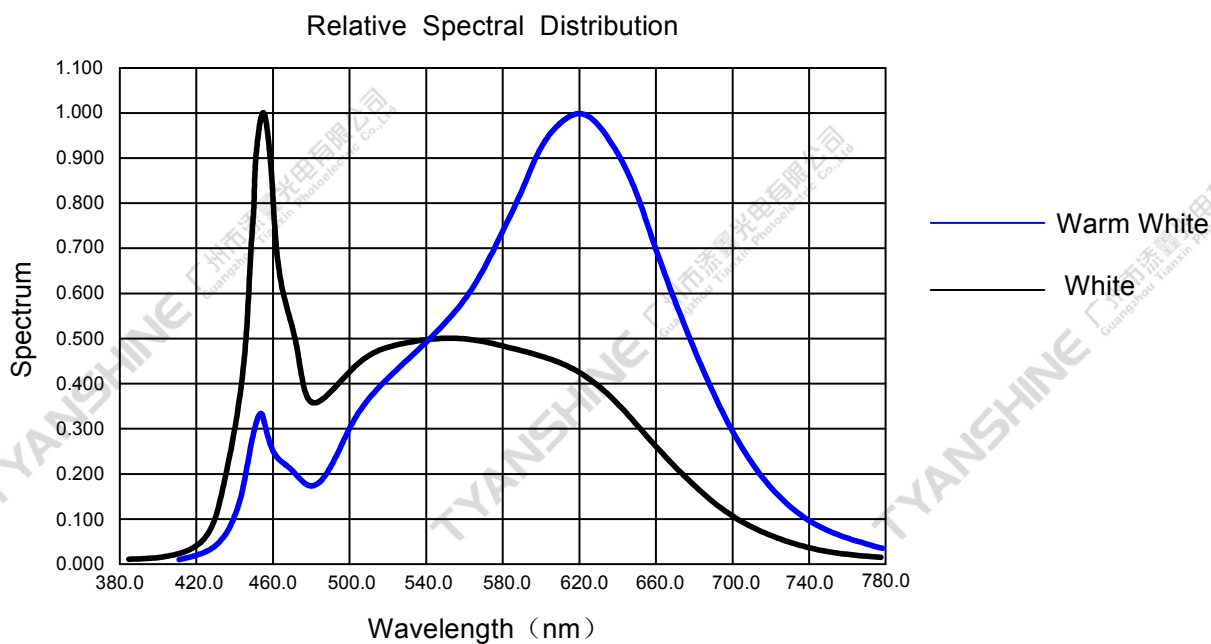


Relative Chromaticity VS. Current



Relative Chromaticity VS. Temperature (IF=250mA)

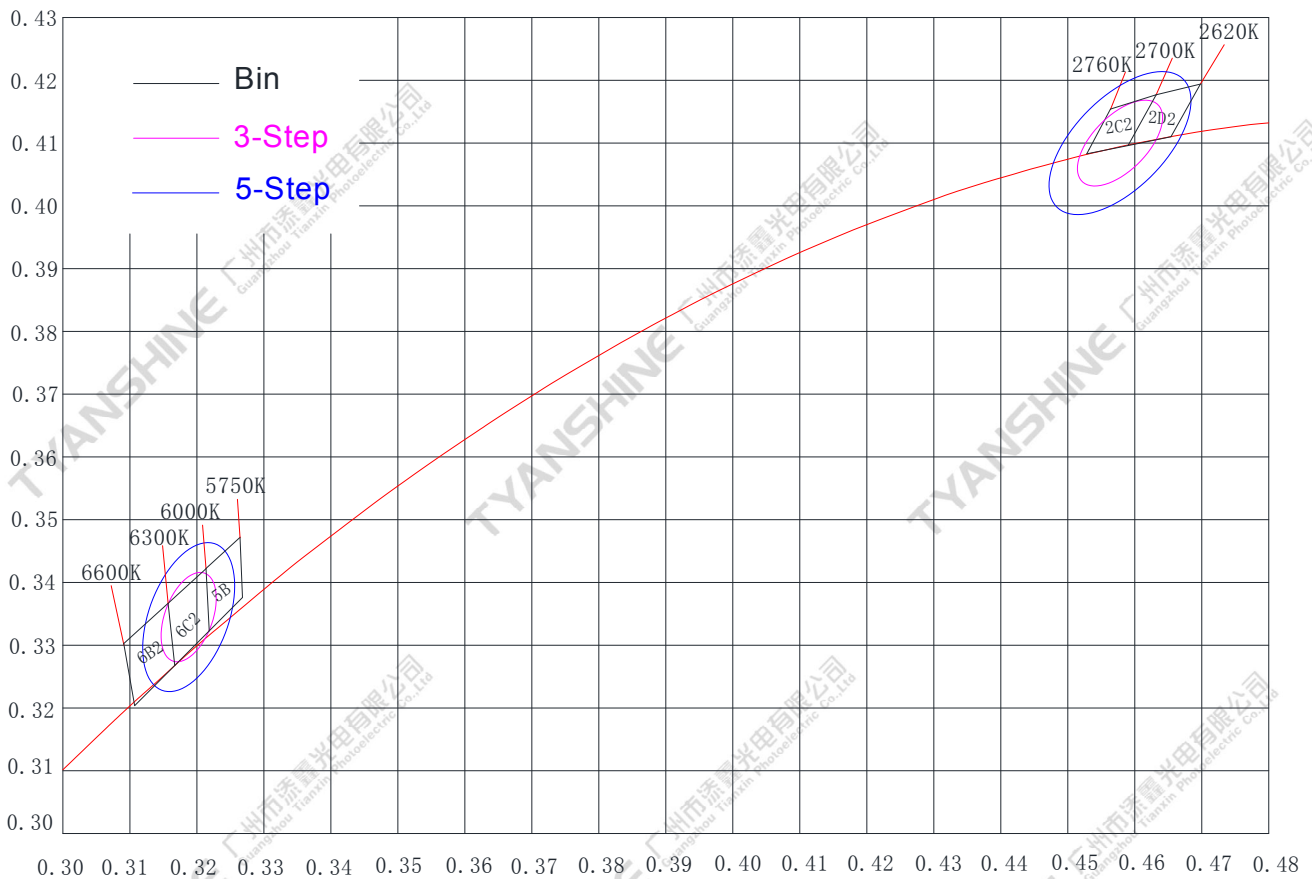




Notes:

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=250mA, Tc=25°C)



Notes:

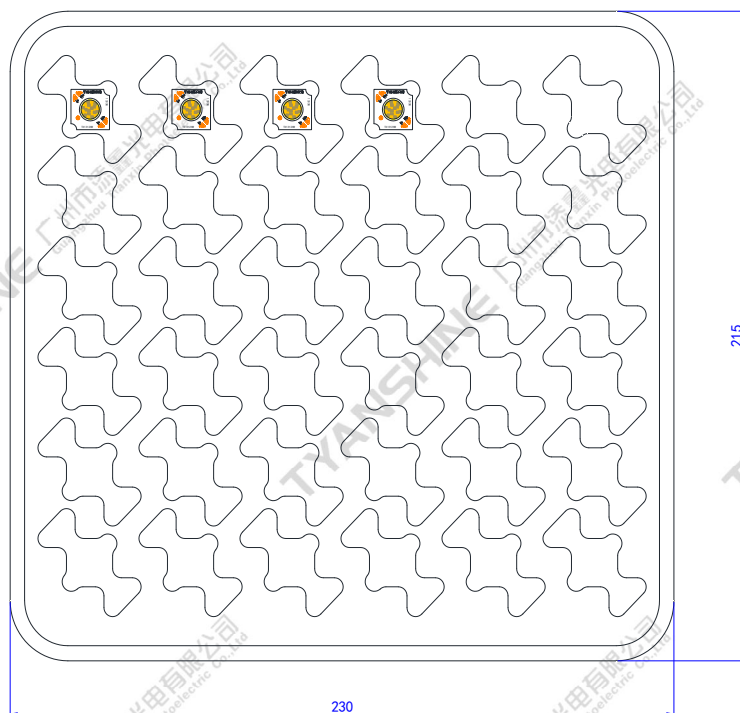
- 1. chromaticity (x, y) measurements tolerance: ± 0.005 .

Reliability Test

Test Item	Test Condition
Continuous Operation Test	IF=250mA Ta=25°C ×1000hrs IF=250mA Tc=85°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

Dimensions For Cannulation And Packaging

Quantity: 36PCS



Notes:

1. All dimensions are in millimeters.
2. Tolerances are ± 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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