

TX-H1309SW08A-2860V36-02AH90

PRODUCT SPECIFICATION

Features:

- ◆Excellent transiting heat from LED chip operating under 400mA.
- ◆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:

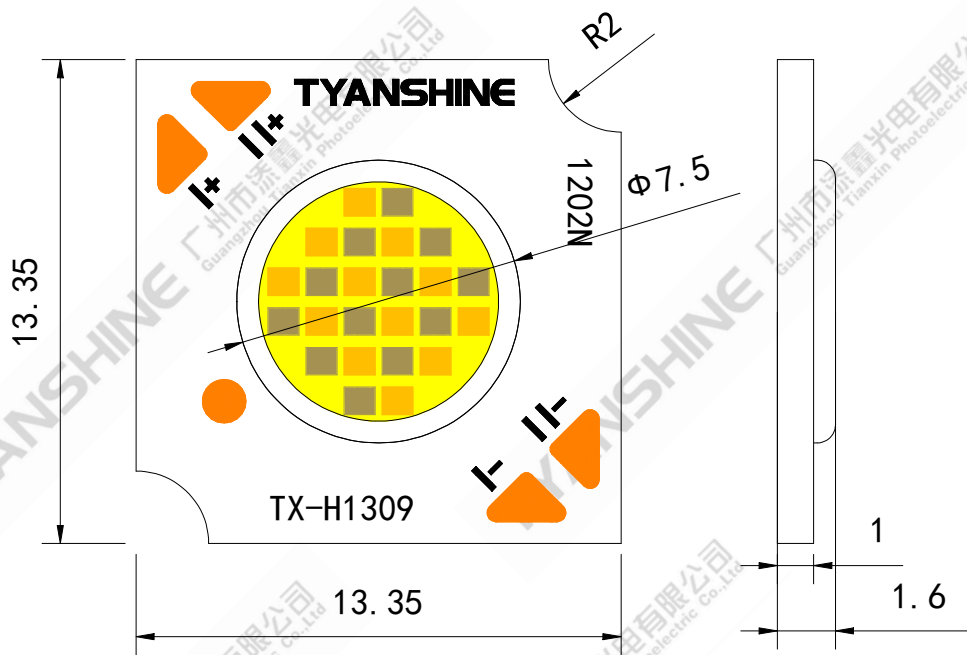
- ◆White
- ◆Warm white

Applications:

- ◆Commercial lighting
- ◆General Lighting

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Package Dimensions:



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

Notes:

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

Code Formats:

TX-H1309SW08A-2860V36-02AH90

TX	—	H	13	09	SW	08	A	—	2860	V36	—	02A	H90
TYANSHINE	—	high density	series	watt typ	performance	LES	texture	—	CCT	VOLTs	—	BOM	Ra

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Absolute Maximum Ratings

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	135
		W	135
Case Temperature (C)	Tc	85	°C
Electrostatic Discharge Threshold (ESD)	ESD	2000	V
Storage Temperature	Tstg	-30~+100	°C
Operation Temperature	Topr	-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.

Electrical Optical Characteristics (Tc=25°C)

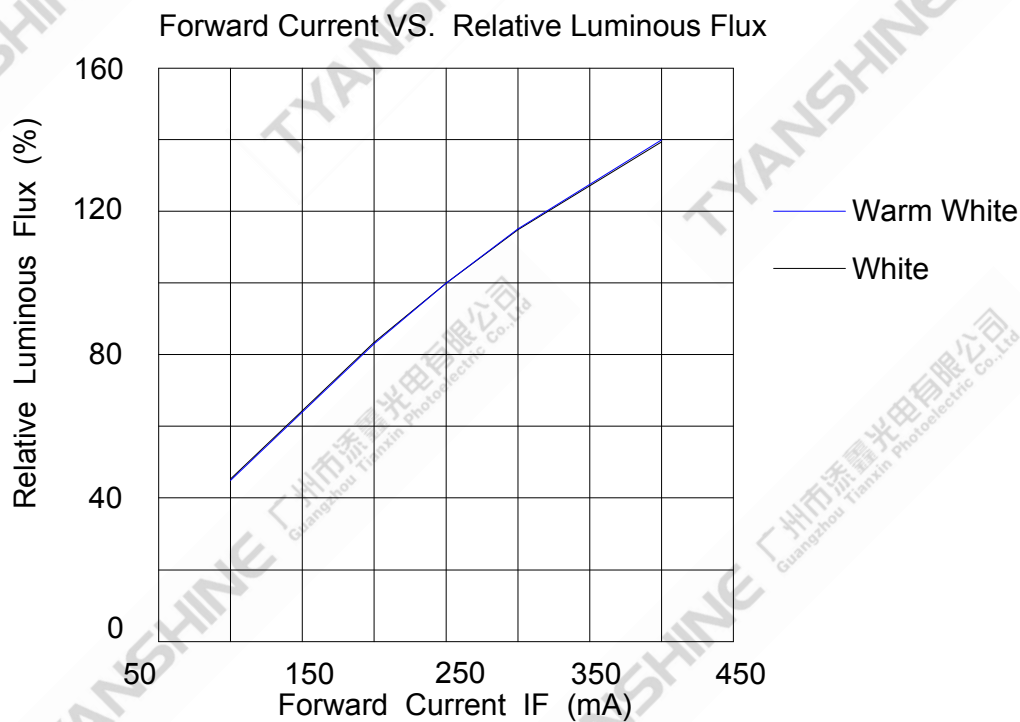
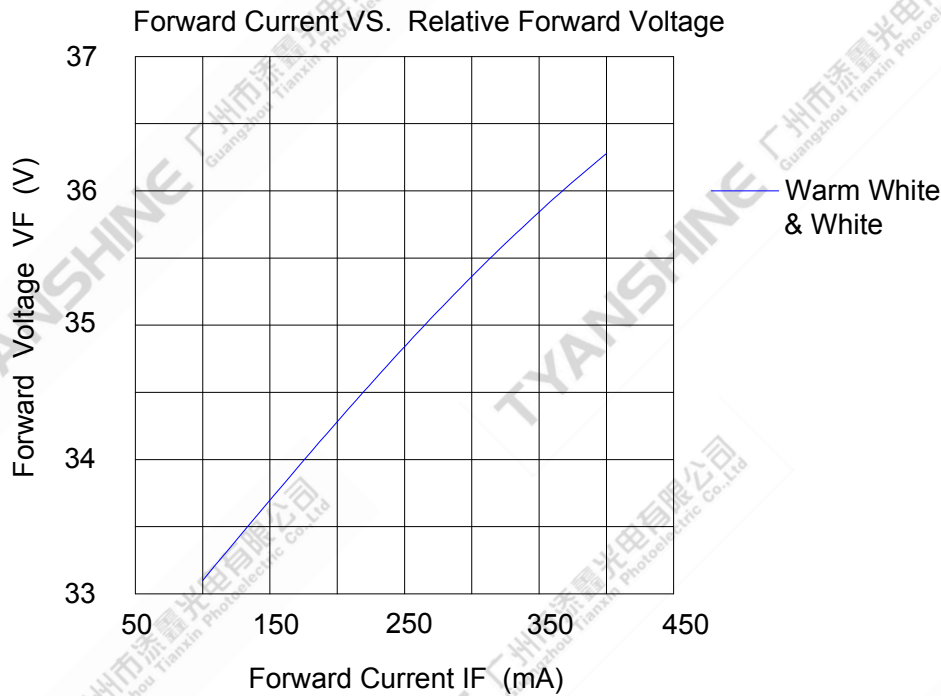
Parameter	Symbol	Condition	Emitting color	Min.	Typ.	Max.	Units
Luminous Flux	Φ_v	If=250mA	S	700	850	900	lm
			W	850	1000	1150	
Forward Voltage	V_f		S	33	35	36	V
			W	33	35	36	
Correlated Colour Temperature	CCT		S	2620	2700	2780	K
			W	5750	6000	6700	
Viewing Angle at 50 % IV	$2\theta_{1/2}$		S	—	115	—	Deg
			W	—	115	—	
Reverse Current	I_R	—	—	—	—	—	μA
Thermal Resistance Junction to Case		If=250mA	—	—	3.7	—	K/W
Color Rendering Index	Ra		S	90	—	—	—
			W	90	—	—	

Notes:

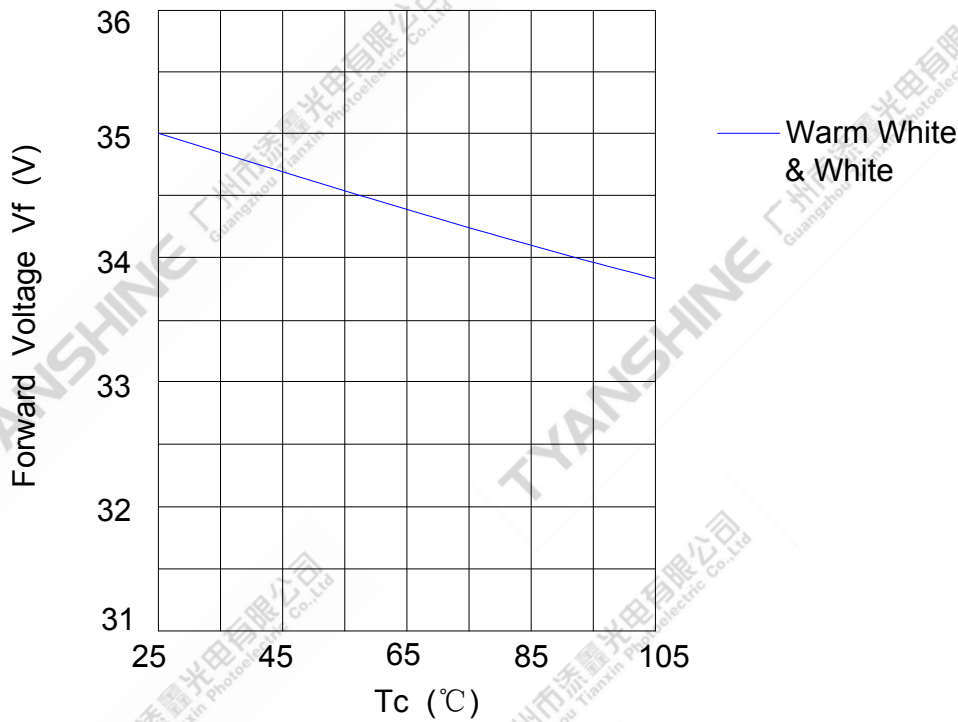
- 1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3.Luminous flux measurement tolerance: $\pm 15\%$.
- 4.Forward voltage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

Typical Electrical/Optical Characteristics Curves

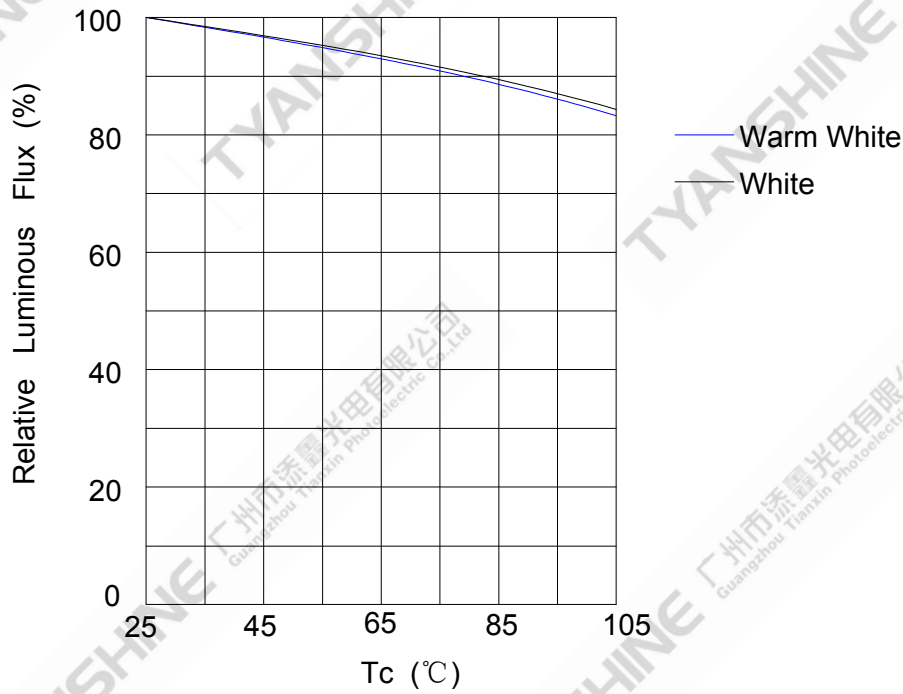
(25℃ Ambient Temperature Unless Otherwise Noted)

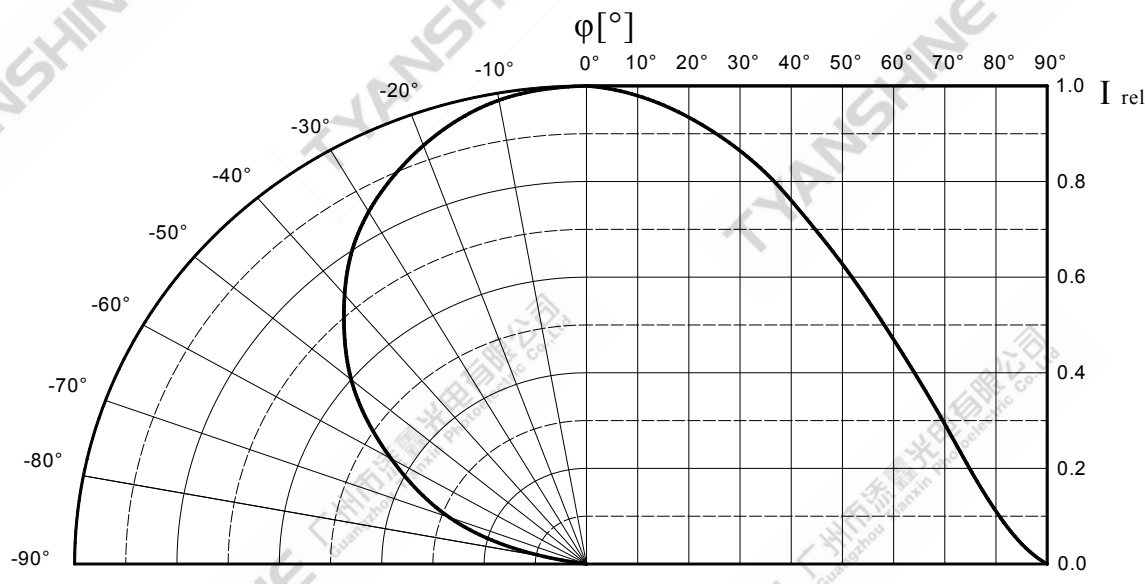
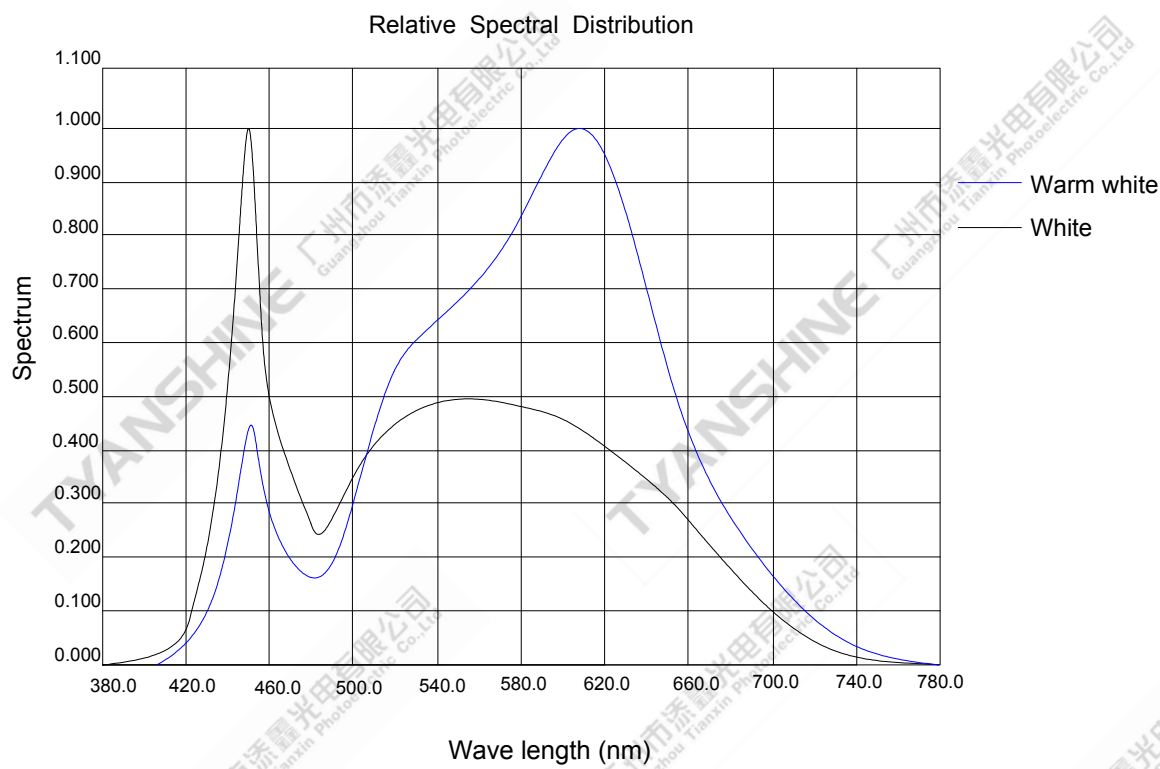


Temperature VS. Relative Luminous FLux (IF=250mA)



Temperature VS. Forward Voltage (IF=250mA)

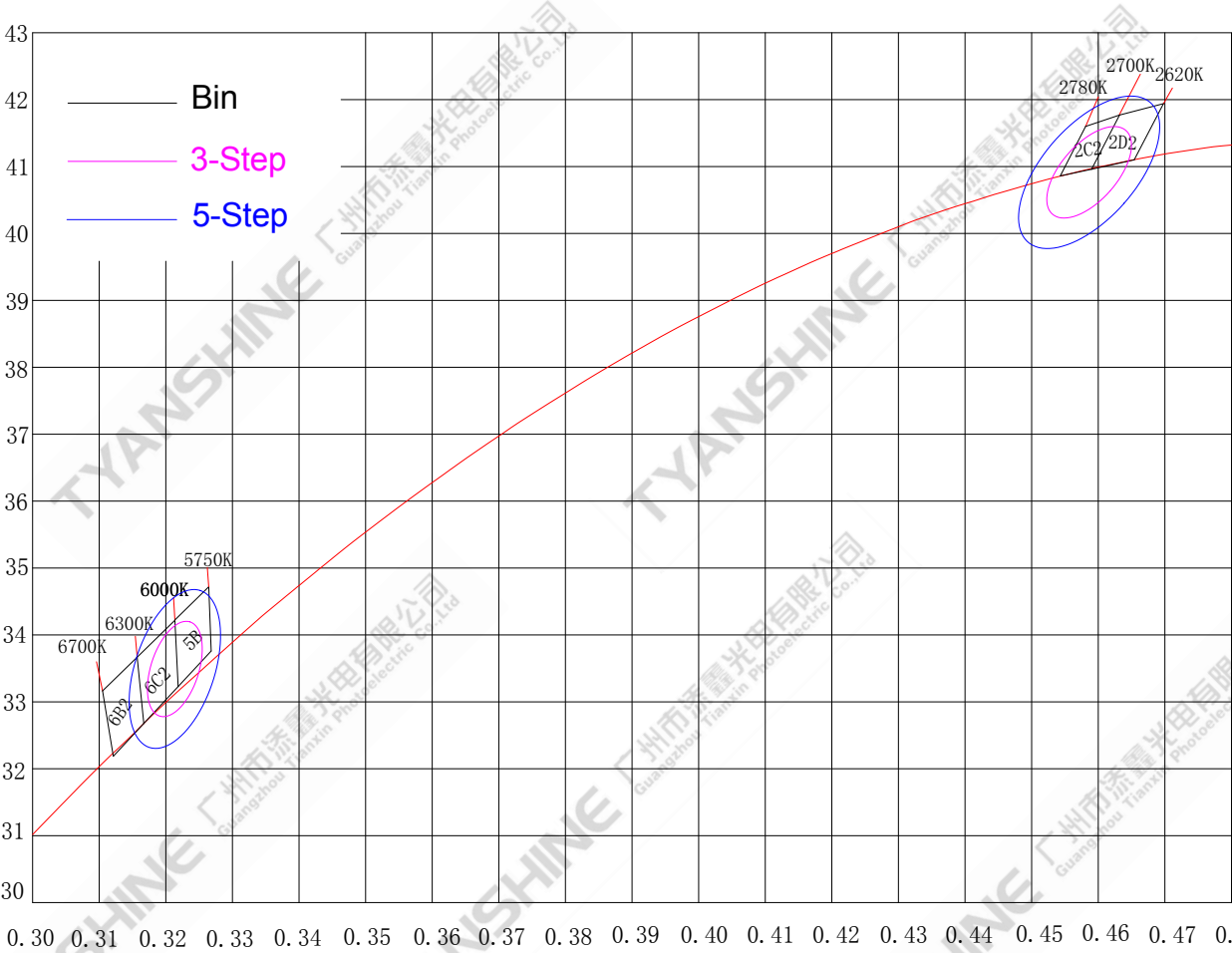




Notes:

- 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℃)



Notes:

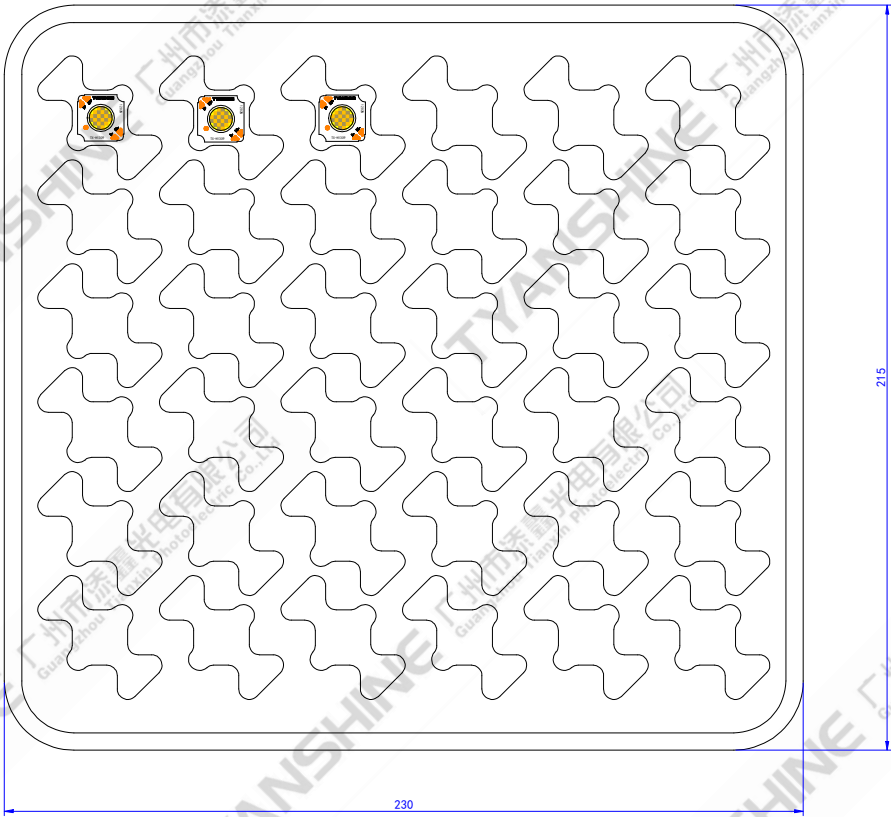
1.chromaticity (x, y) measurements tolerance: ±0.005.

Reliability Test

Test Item		Test Condition			
Continuous Operation Test		IF=250mA 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 ± 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.