

TX-1307SW08A-2860V36-10H90

PRODUCT SPECIFICATION

Features:

- ◆Excellent transiting heat from LED chip operating under 250mA.
- ◆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:

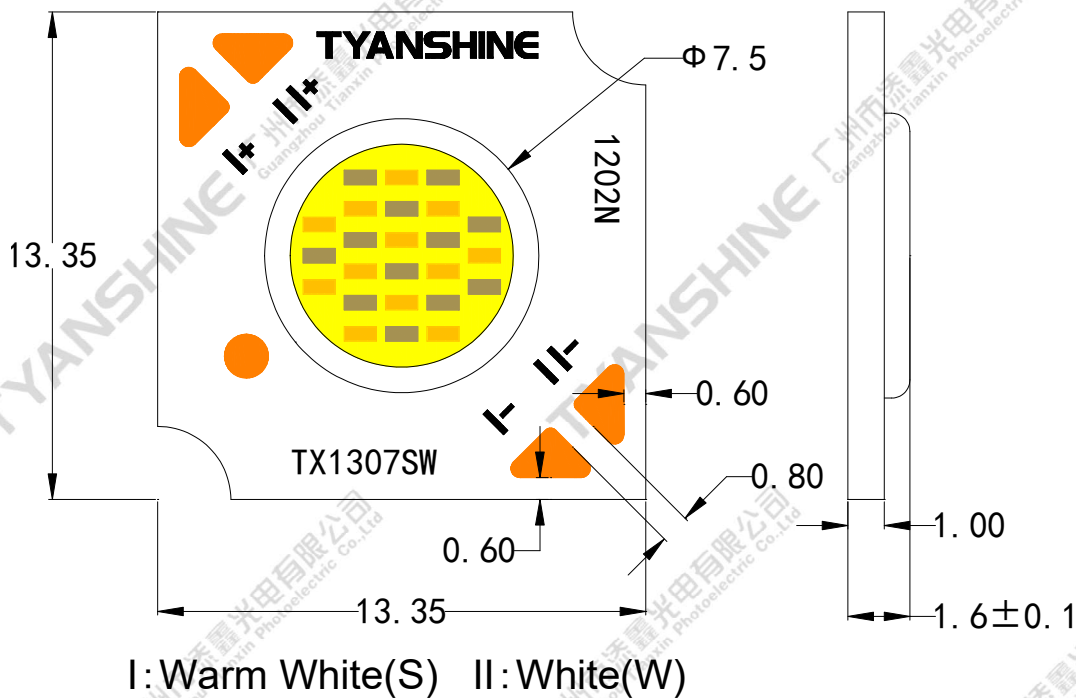
- ◆White
- ◆Warm white

Applications:

- ◆Commercial lighting
- ◆General Lighting

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Package Dimensions:



Notes:

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

Code Formats:

TX-1307SW08A-2860V36-10H90

TX	—	13	07	SW	08	A	—	2860	V36	—	10	H90
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		250	mA
Reverse Voltage	VR		Not designed for reverse operation	V
Power Dissipation	PD	S	9	W
		W	9	
		S+W	9	
Junction Temperature	Tj	S	135	℃
		W	135	
Case Temperature (C)	Tc		85(250mA)	℃
			95(230mA)	
			105(170mA)	
Electrostatic Discharge Threshold (ESD)	ESD		2000	V
Storage Temperature	Tstg		-30~+80	℃
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.

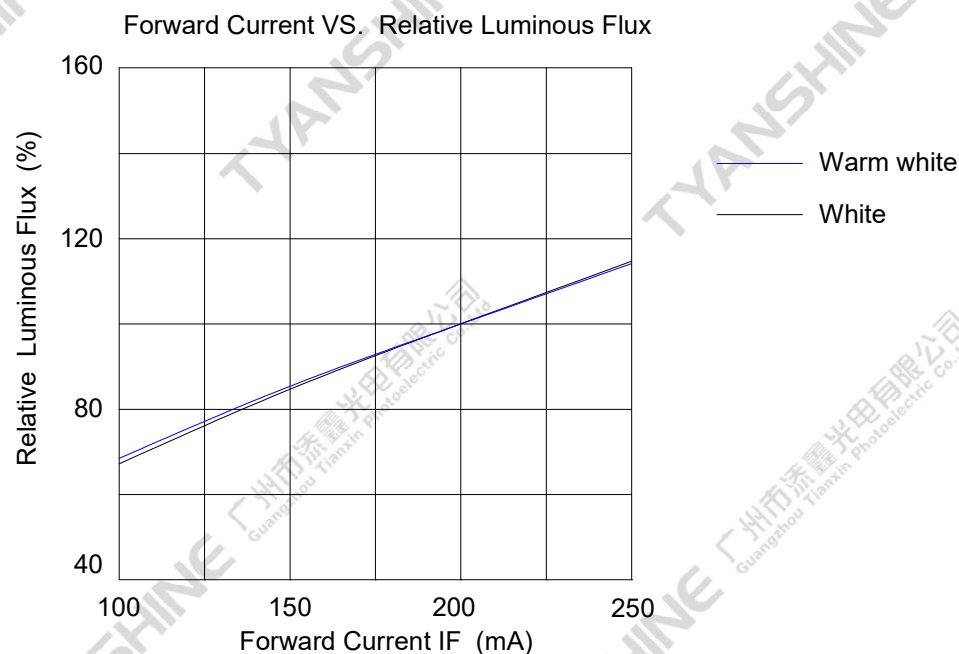
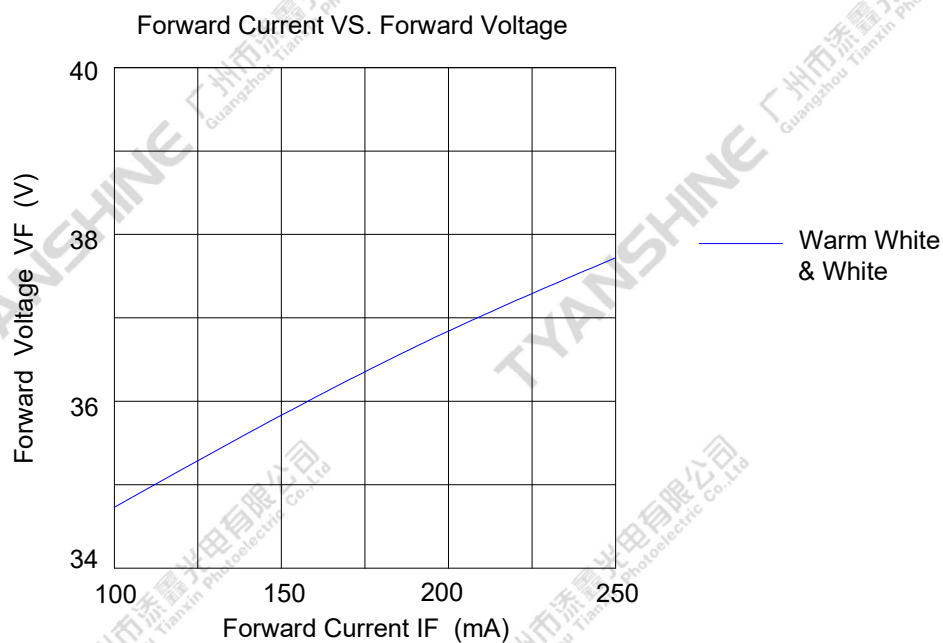
Electrical Optical Characteristics (Tc=25°C)

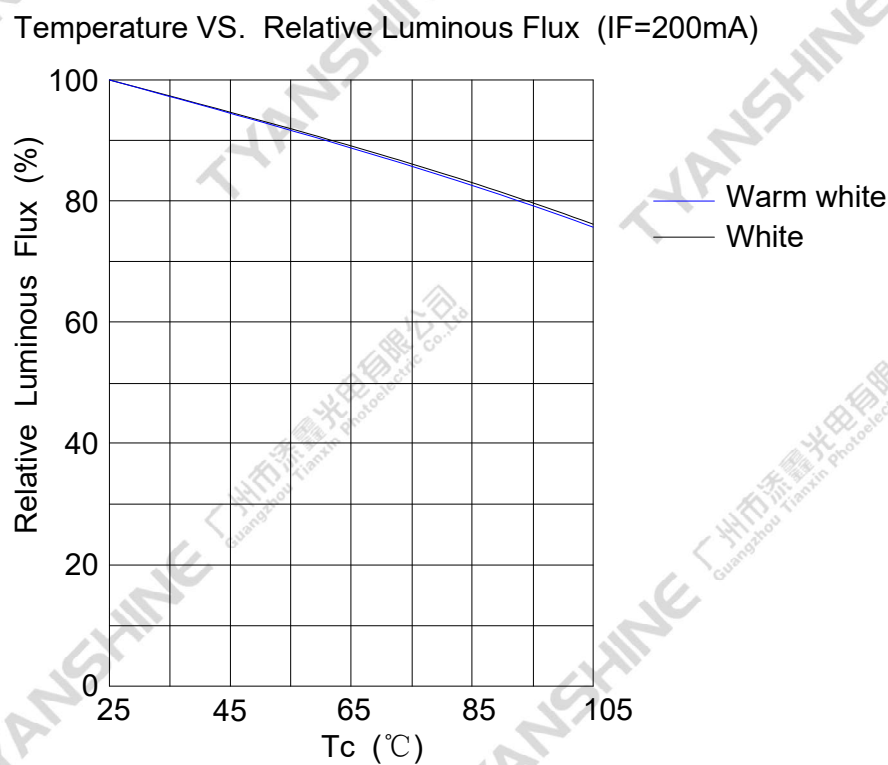
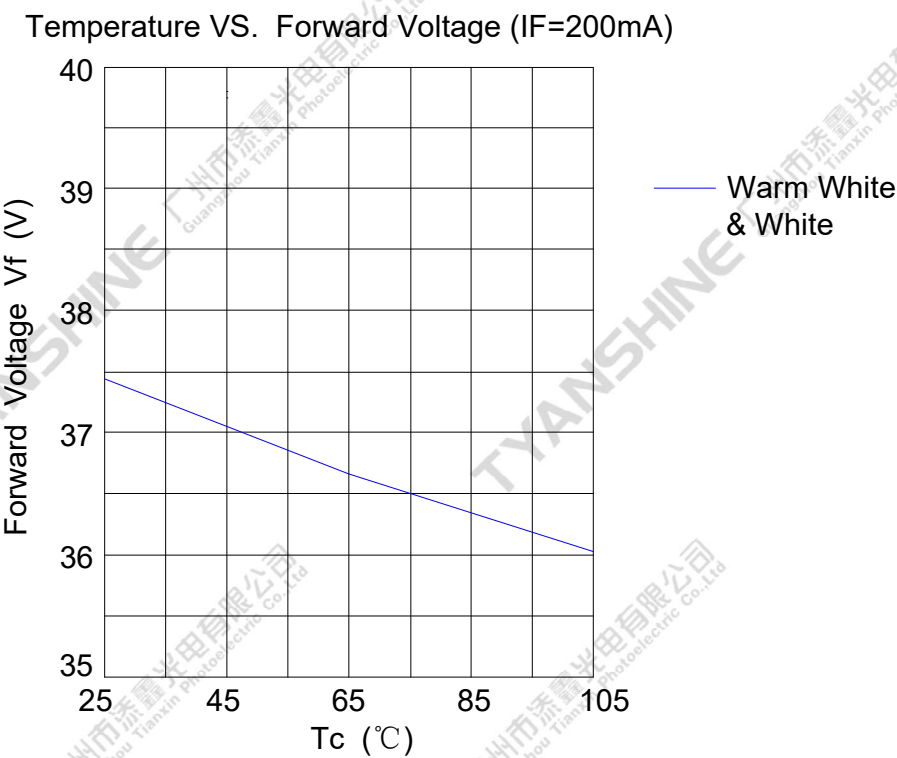
Parameter	Symbol	Condition	Emitting color	Min.	Typ.	Max.	Units
Luminous Flux	Φ_v	If=200mA	S	500	570	650	lm
			W	630	700	800	
Forward Voltage	V_f		S	34	36	38	V
			W	34	36	38	
Correlated Colour Temperature	CCT		S	2620	2700	2780	K
			W	5750	6000	6300	
Viewing Angle at 50 % IV	$2\theta_{1/2}$		S	—	115	—	Deg
			W	—	115	—	
Reverse Current	I_R	—	—	—	—	—	μA
Thermal Resistance Junction to Case	$R\theta_{J-C}$	If=200mA	S	—	4.8	—	K/W
			W	—	4.8	—	
Temperature Coefficient of Voltage	$V\Delta F/T$		S	—	-17	—	mV/°C
			W	—	-17	—	
Color Rendering Index	Ra		S	90	—	—	—
			W	90	—	—	

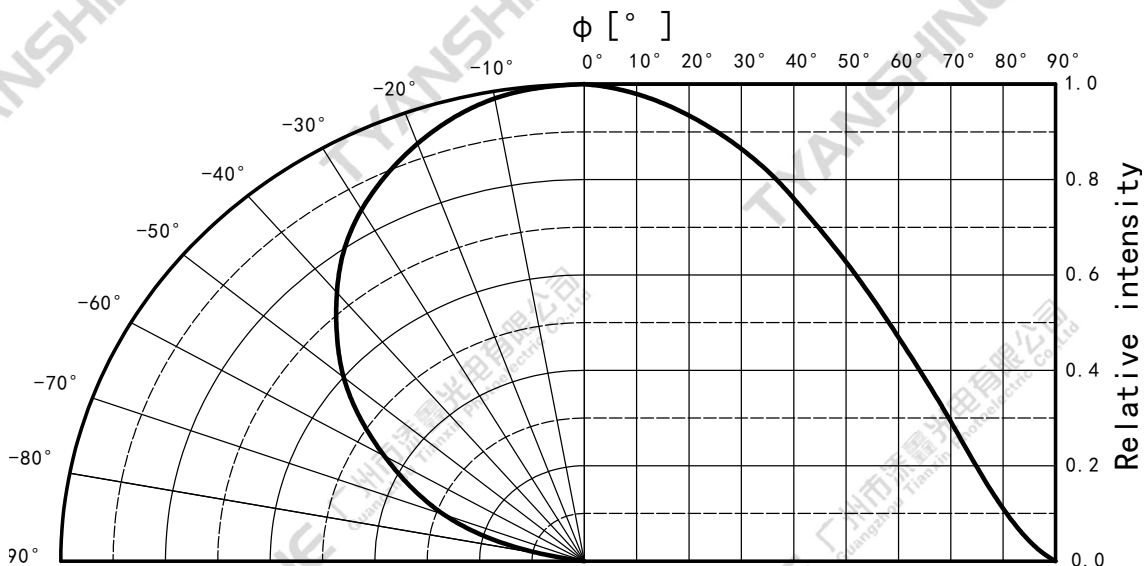
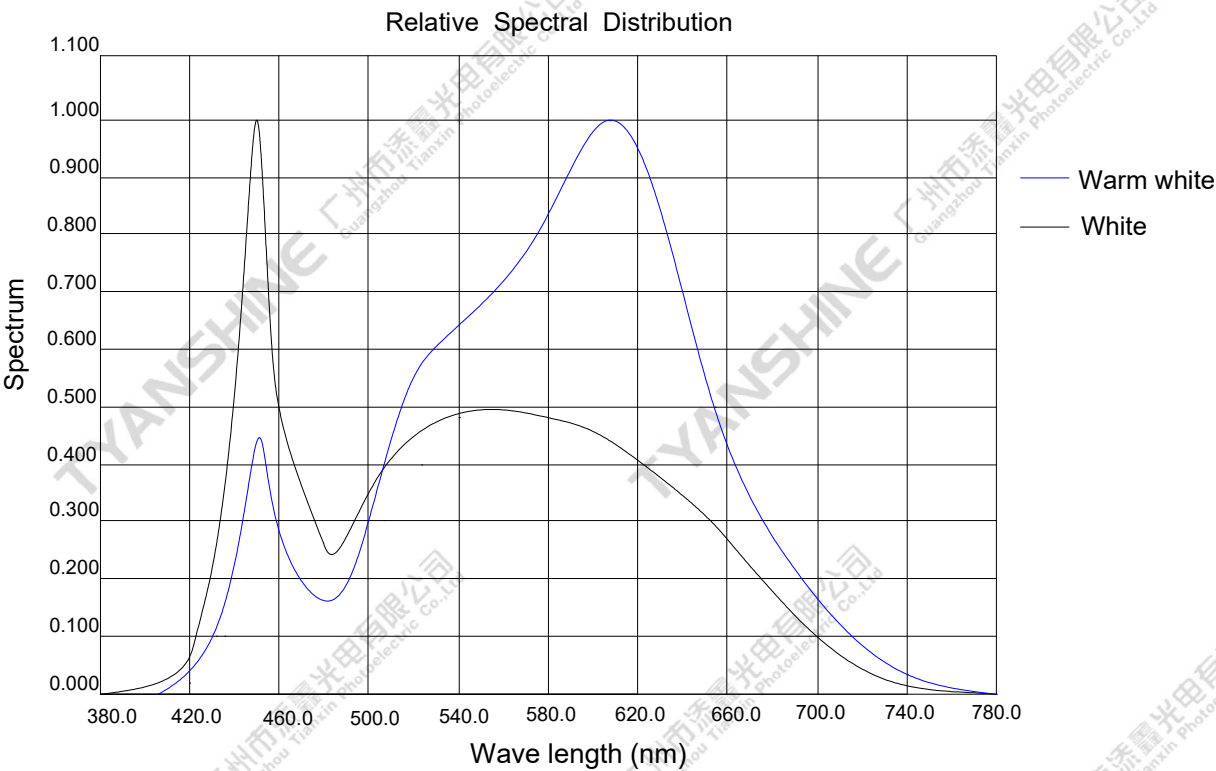
- Notes:
- 1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
 - 2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
 - 3.Luminous flux measurement tolerance:±15%.
 - 4.Forward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

Typical Electrical/Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)





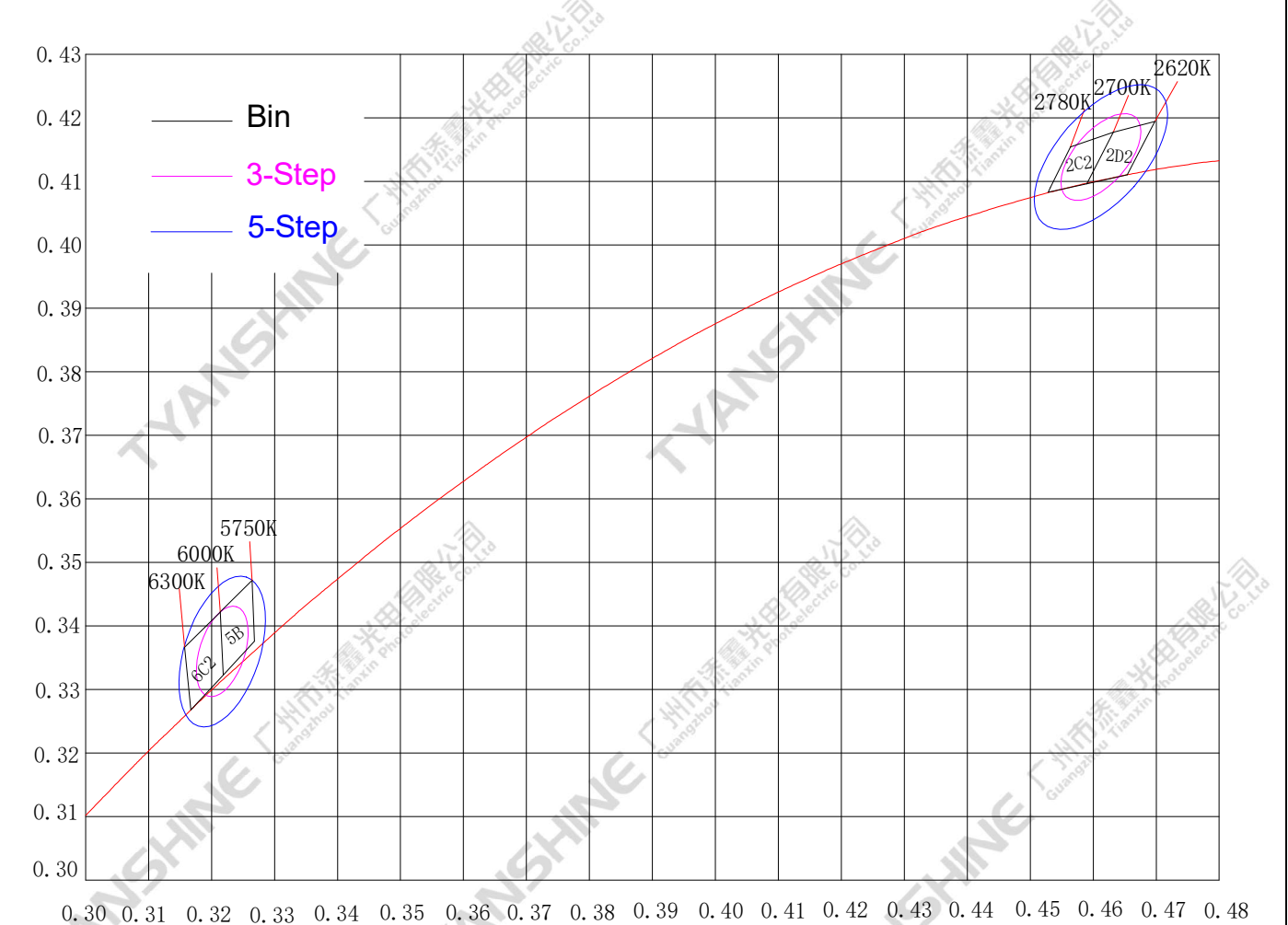


Notes:

1. 20 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=200mA, Tc=25℃)



Notes:

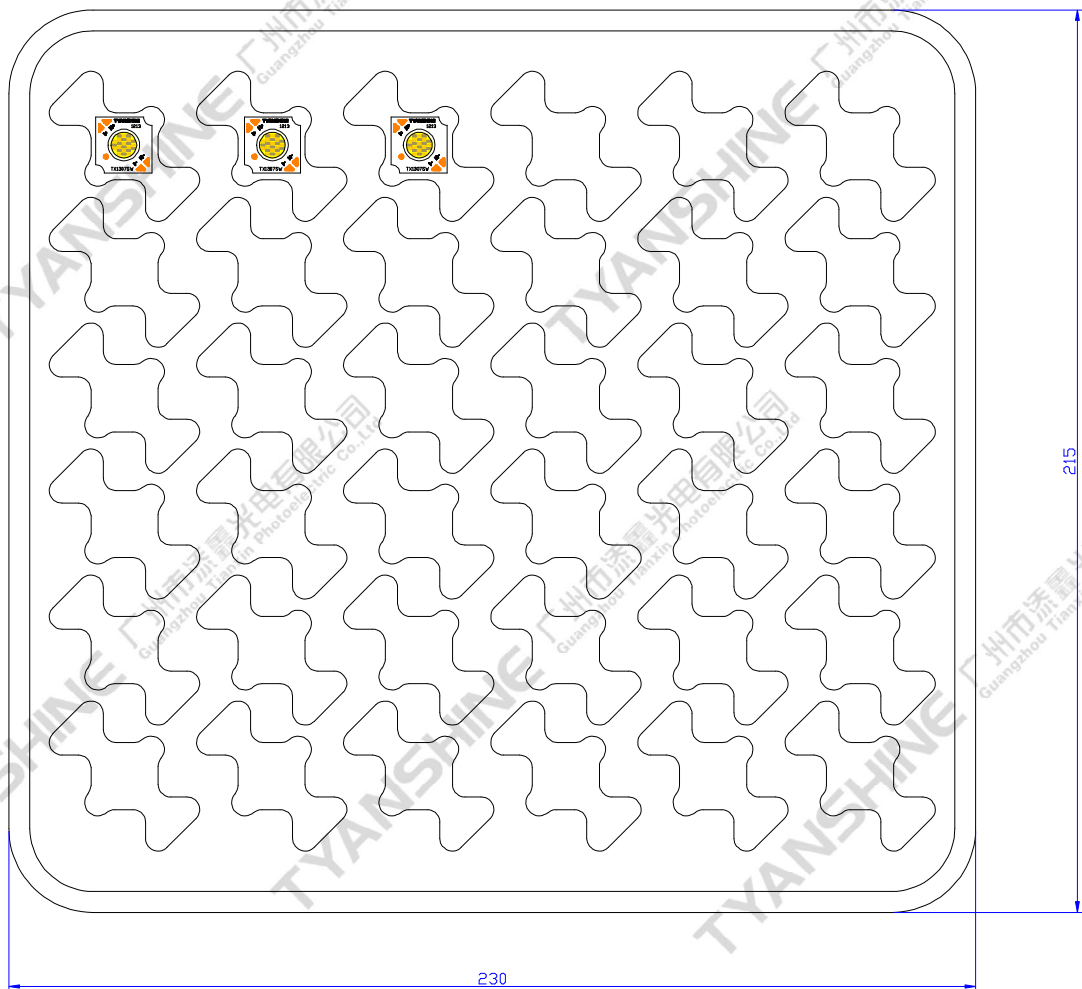
1.chromaticity (x, y) measurements tolerance: ±0.005.

Reliability Test

Test Item		Test Condition			
Continuous Operation Test		IF=200mA 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			
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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.

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