

TX-1309SW08F12-08H902760

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:

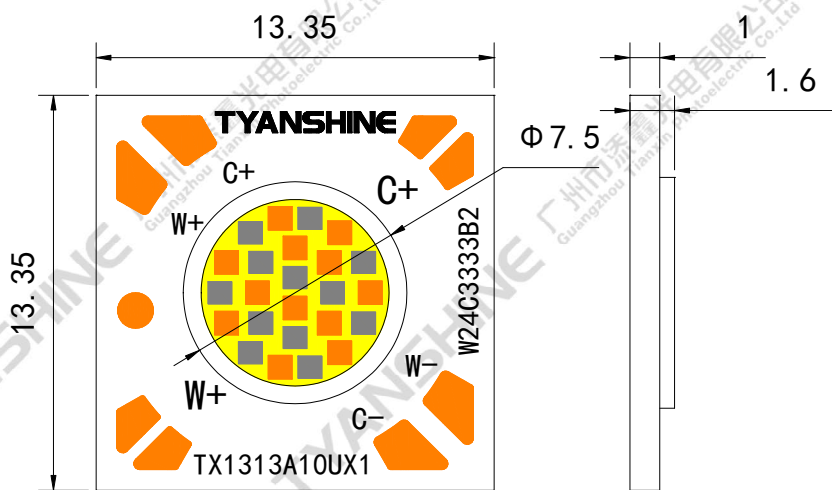
- ◆Warm White
- ◆White

Applications:

- ◆Commercial lighting
- ◆General Lighting

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Package Dimensions:

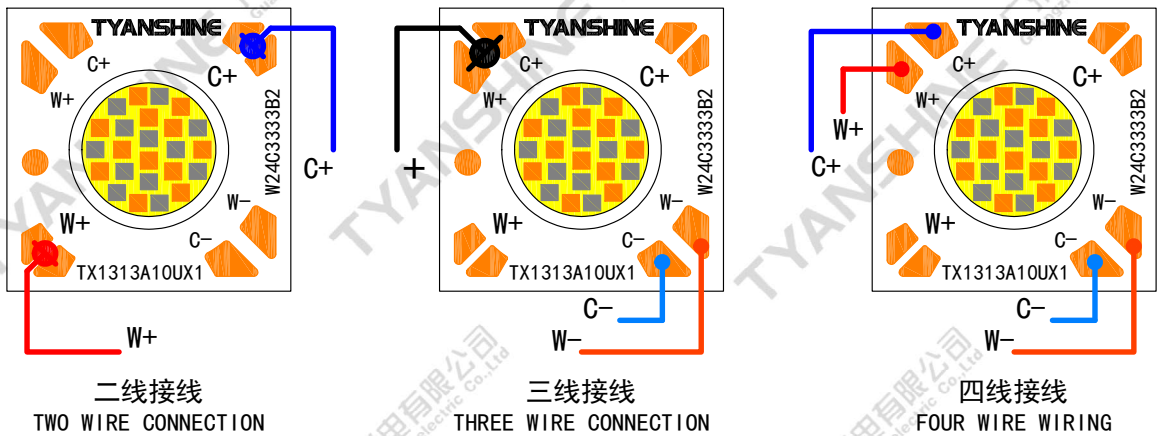


W: Warm White ; C:White

Notes:

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

Connections:



Code Formats:

TX-1309SW08F12-08H902760

TX	—	13	09	SW	08	F	12	—	08	H90	2760
TYANSHINE	—	series	watt type	performance	LES	chip code	die count in series	—	BOM	Ra	CCT

Absolute Maximum Ratings

Parameter	Symbol	Ratings	Unit
Forward Current	IF	400	mA
Reverse Voltage	V _R	Not designed for reverse operation	V
Power Dissipation	P _D	W	W
		C	
		W+C	
Junction Temperature	T _j	W	℃
		C	
Case Temperature (C)	T _c	85	℃
Electrostatic Discharge Threshold (ESD)	ESD	2000	V
Storage Temperature	T _{stg}	-30~+80	℃
Operation Temperature	T _{opr}	-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)

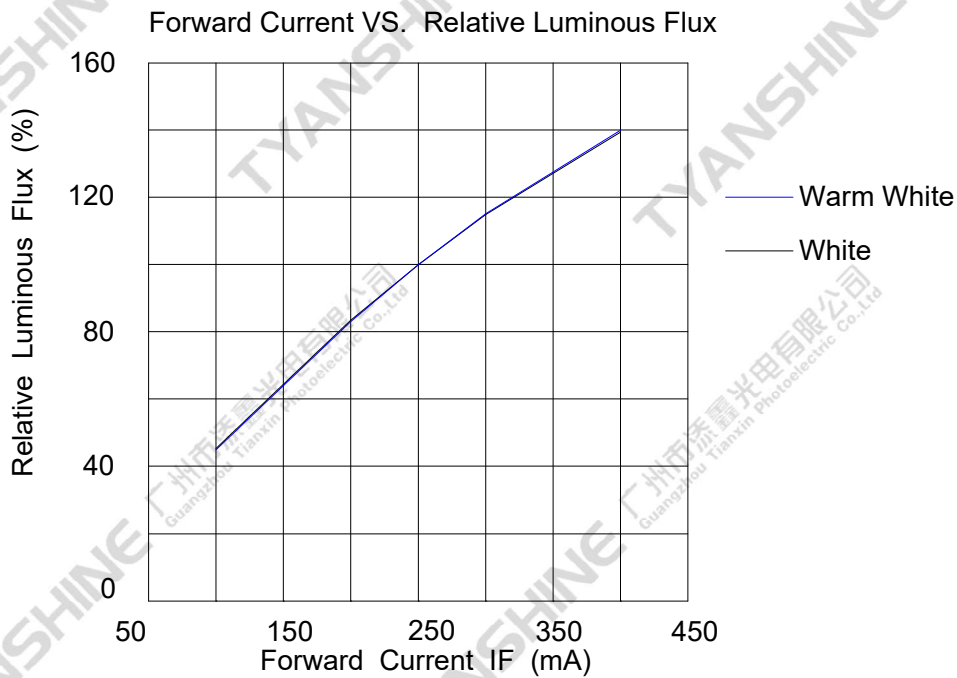
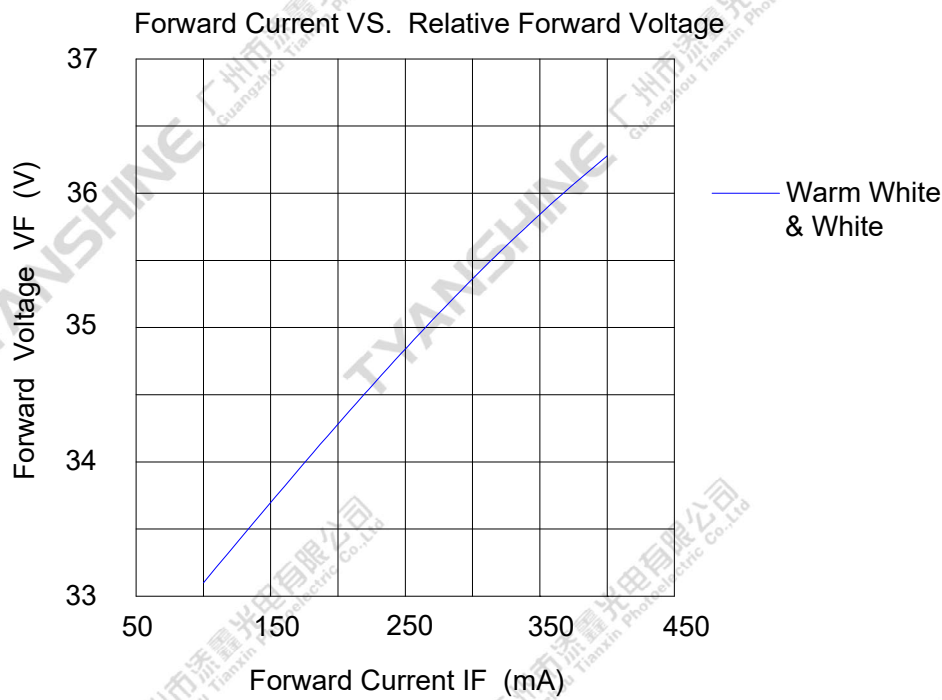
Parameter	Symbol	Condition	Emitting color	Min.	Typ.	Max.	Units	
Luminous Flux	φ_v	If=250mA	W	700	850	900	lm	
			C	850	1000	1150		
Forward Voltage	V_f		W	33	35	37	V	
			C	33	35	37		
Correlated Colour Temperature	CCT		W	2620	—	2760	K	
			C	5950	—	6450		
Viewing Angle at 50 % IV	$2\theta_{1/2}$		W	—	115	—	Deg	
			C	—	115	—		
Reverse Current	I_R			—	—	—	μA	
Thermal Resistance Junction to Case	$R\theta_{J-C}$			—	—	3.7	—	K/W
Color Rendering Index	Ra		If=250mA	W	90	—	—	—
				C	90	—	—	

Notes:

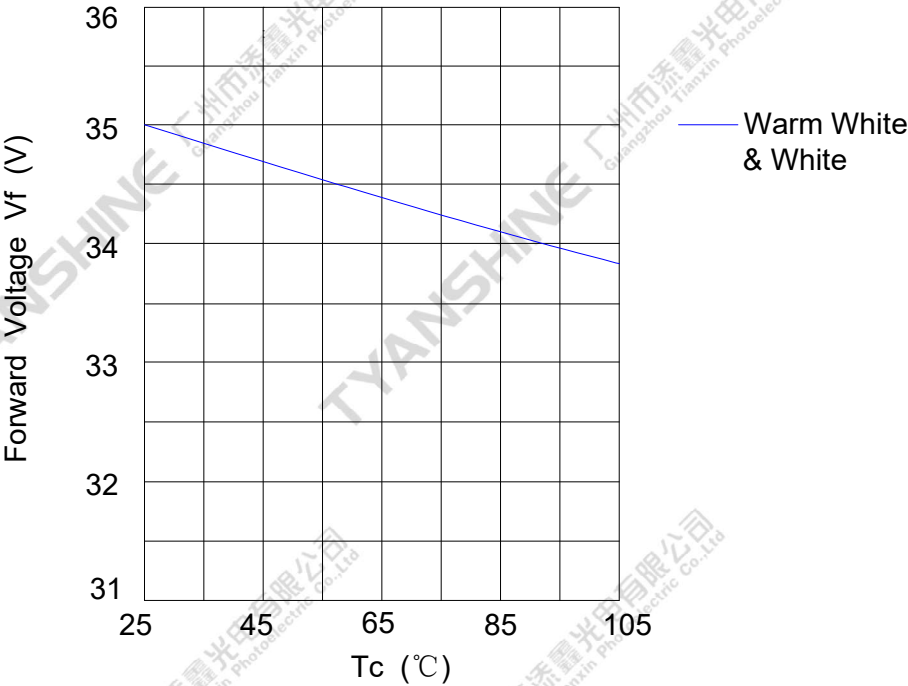
- 1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3.Luminous flux measurement tolerance:±15%.
- 4.Forward voltage measurement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

Typical Electrical/Optical Characteristics Curves

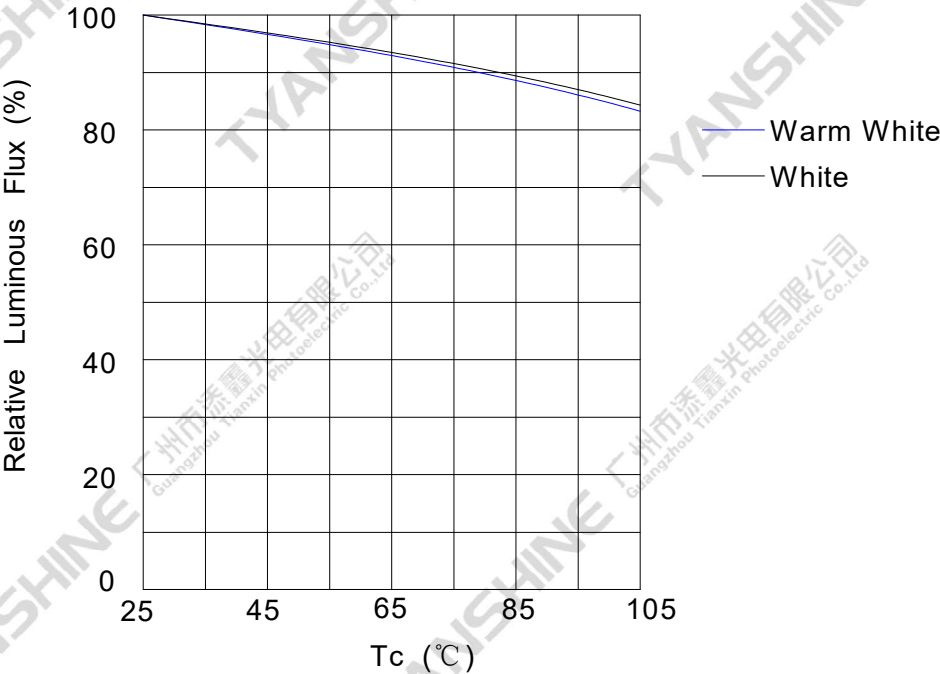
(25℃ Ambient Temperature Unless Otherwise Noted)

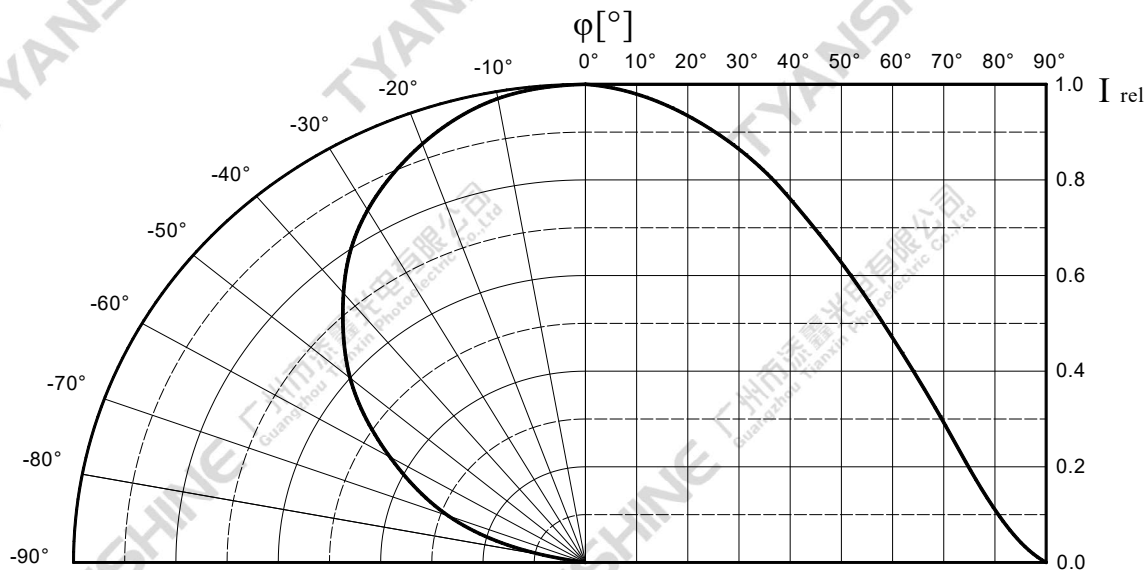
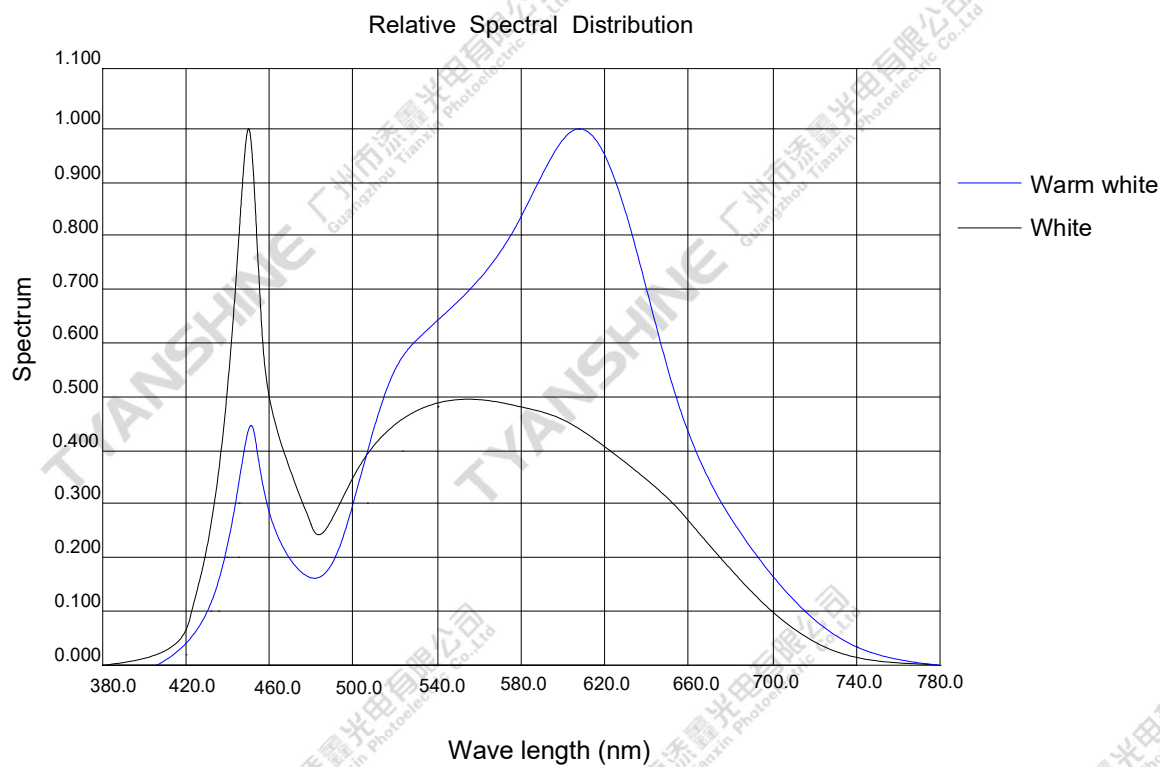


Temperature VS. Relative Luminous FLux (IF=250mA)



Temperature VS. Forward Voltage (IF=250mA)

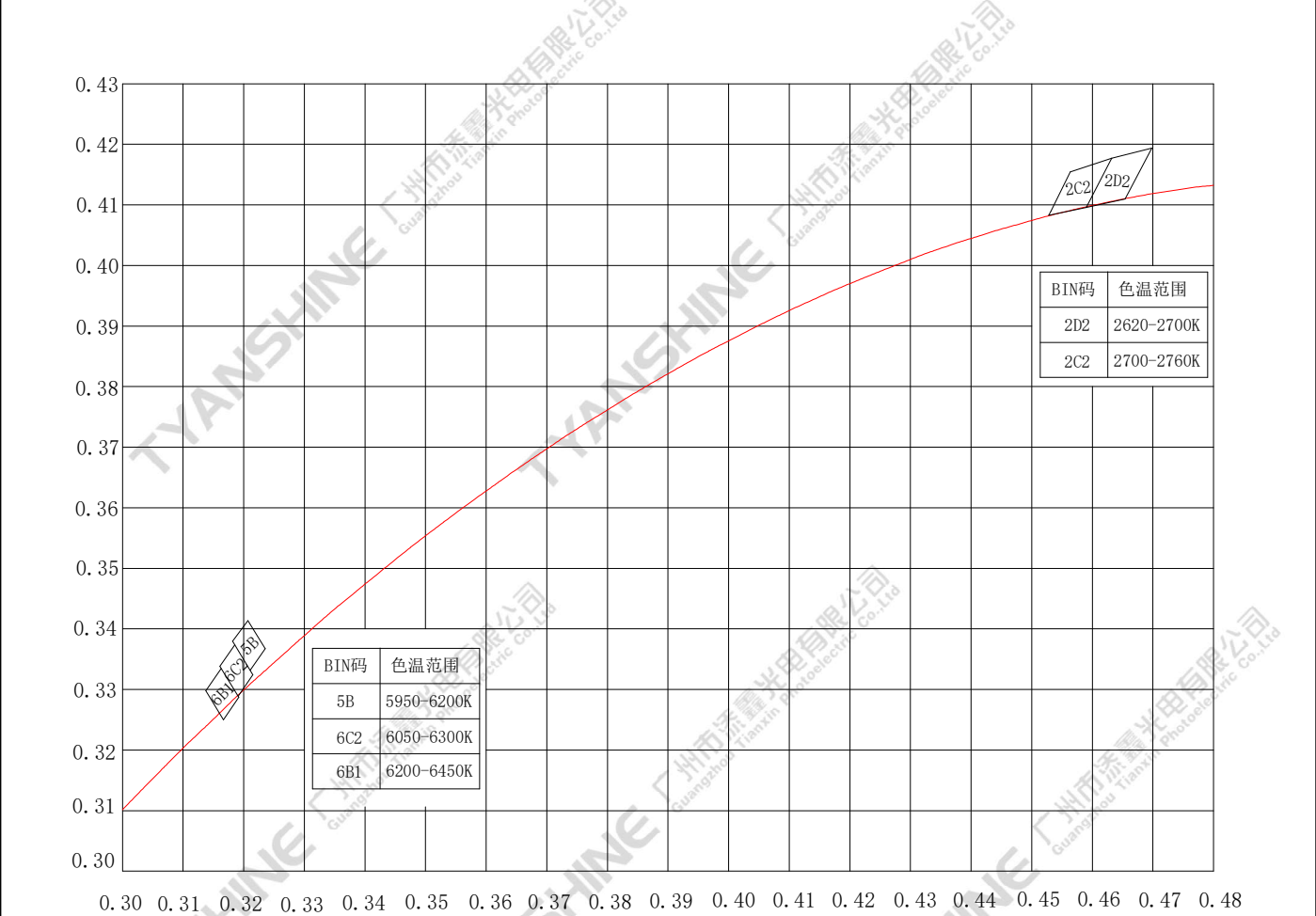




Notes:

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:

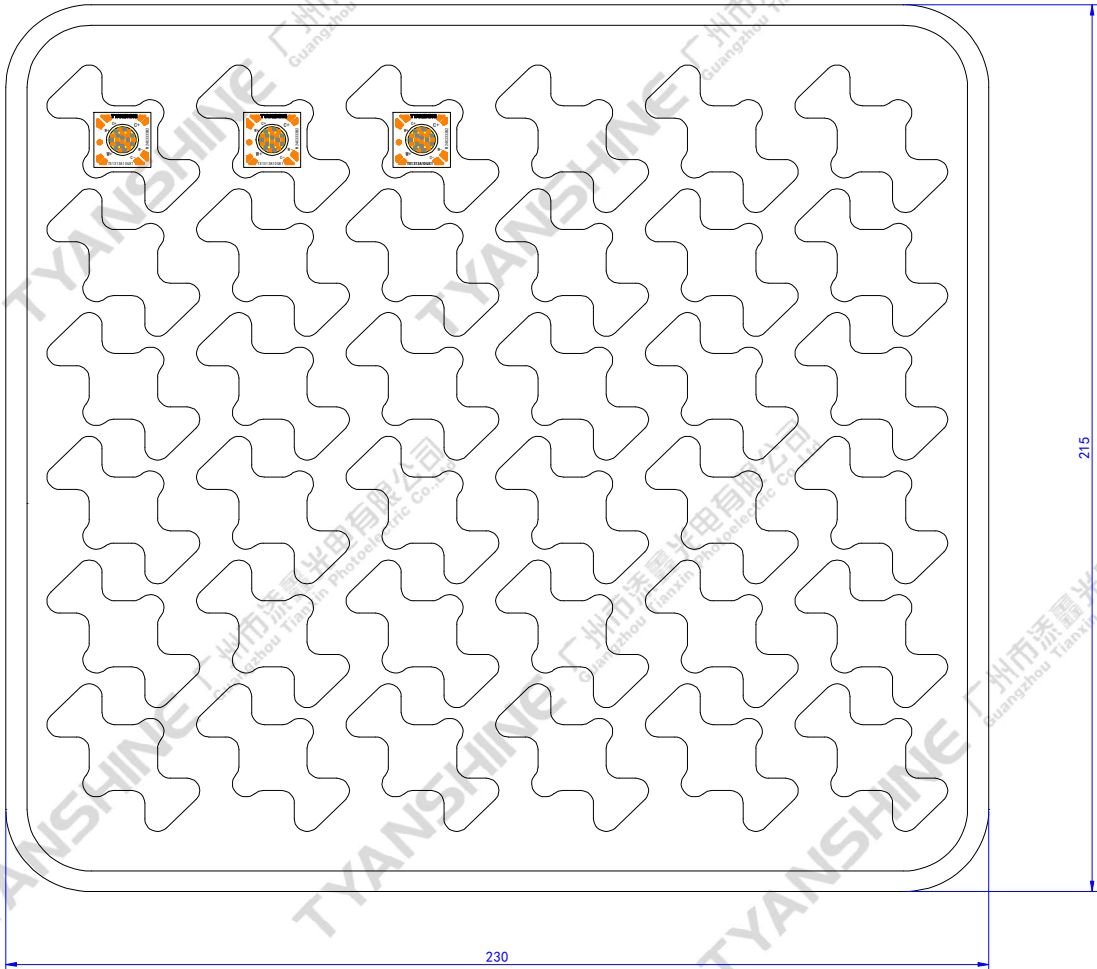
1. chromaticity (x, y) measurements tolerance: ±0.005.

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

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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