

TX-1312SW08F13-08H903040

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:

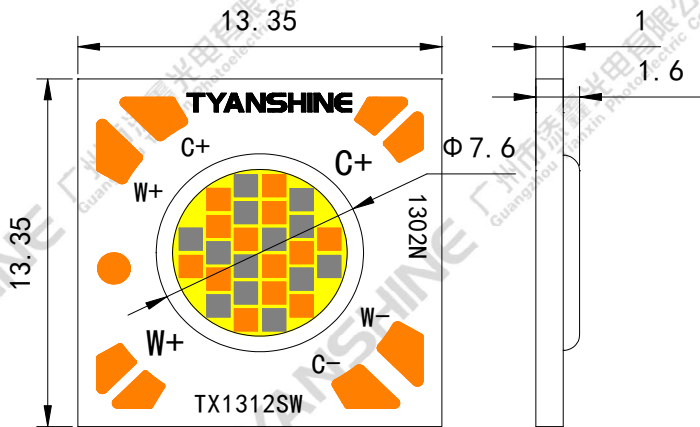
- ◆White
- ◆Warm white

Applications:

- ◆Commercial lighting
- ◆General Lighting

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Package Dimensions:



W: Warm White ; C: White

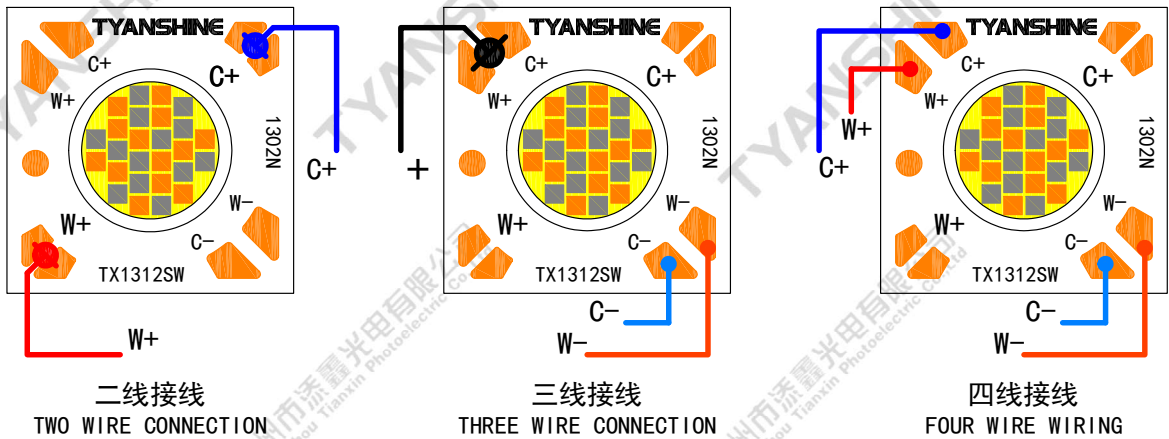
Notes:

- 1.All dimensions are in millimeters.
- 2.Tolerances unless otherwise mentioned are $\pm 0.25\text{mm}$.

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Connections:



Code Formats:

TX-1312SW08F13-08H903040

TX	—	13	12	SW	08	F	13	—	08	H90	3040
TYANSHINE	—	series	watt type	performance	LES	chip code	die count in series	—	BOM	Ra	CCT
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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	800	930	1070	lm
			C	900	1050	1220	
Forward Voltage	V_f		W	35	37	39	V
			C	35	37	39	
Correlated Colour Temperature	CCT		W	2920	3020	3150	K
			C	3900	4050	4200	
Viewing Angle at 50 % IV	$2\theta_{1/2}$		W	—	115	—	Deg
			C	—	115	—	
Reverse Current	I_R	—	—	—	—	—	μA
Thermal Resistance Junction to Case	$R\theta_{J-C}$	—	—	—	2.6	—	K/W
Color Rendering Index	Ra	If=250mA	W	90	—	—	—
			C	90	—	—	

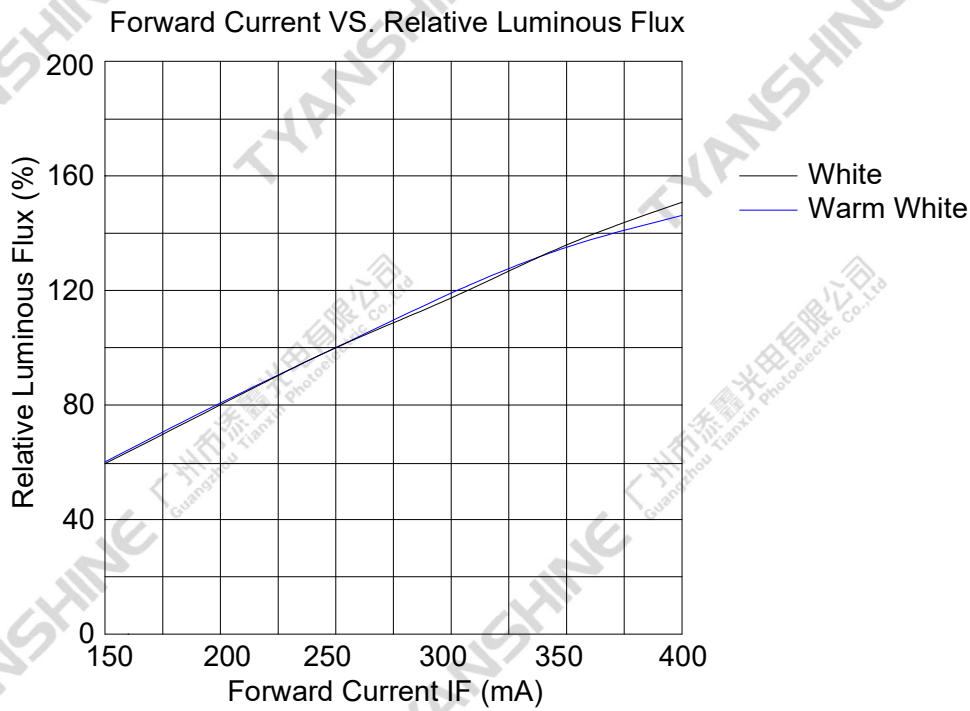
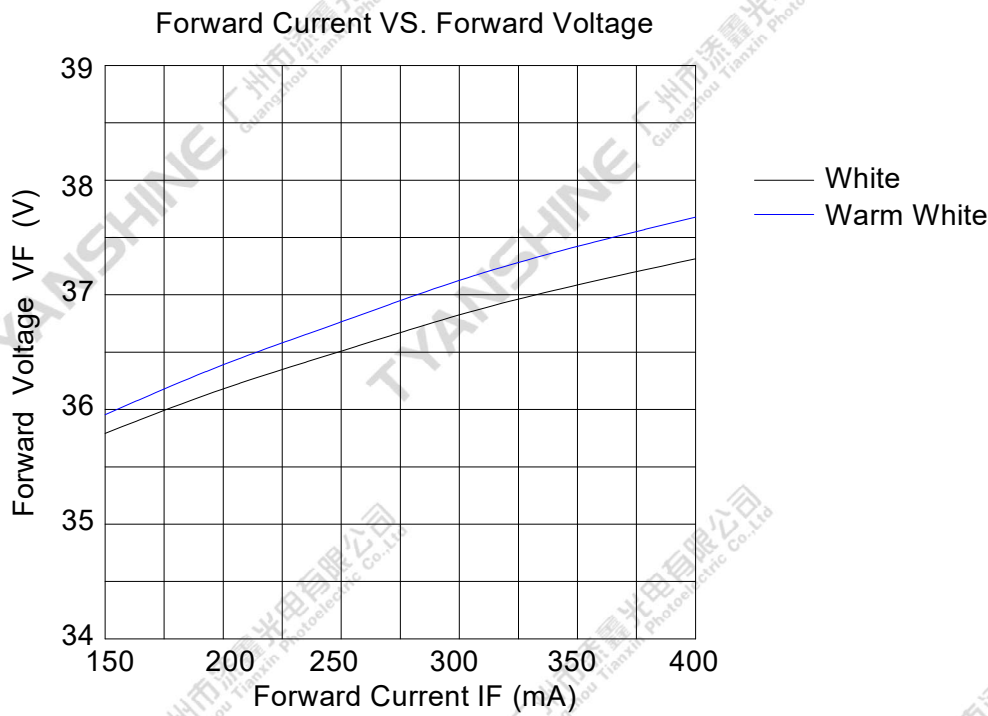
Notes:

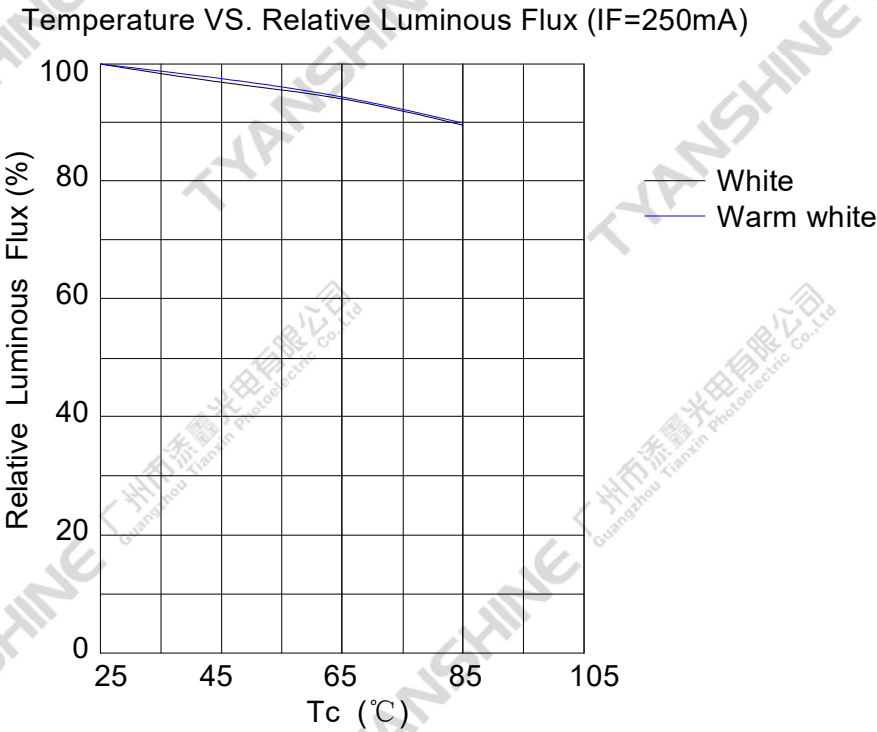
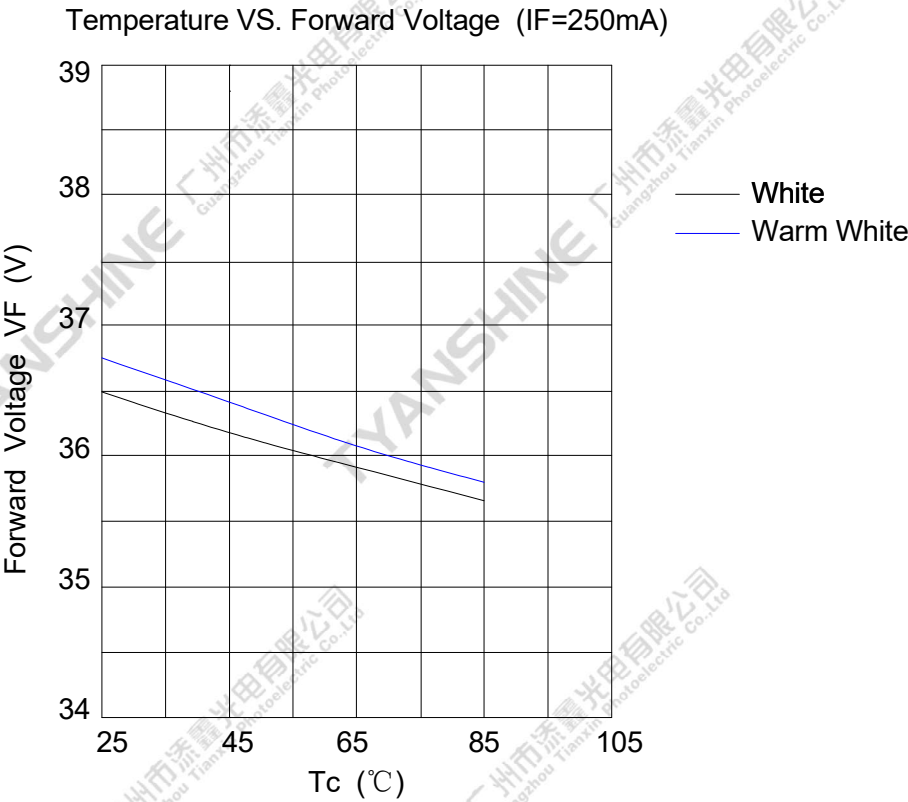
- 1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3.Luminous flux measurement tolerance: $\pm 15\%$.
- 4.Forward voltage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

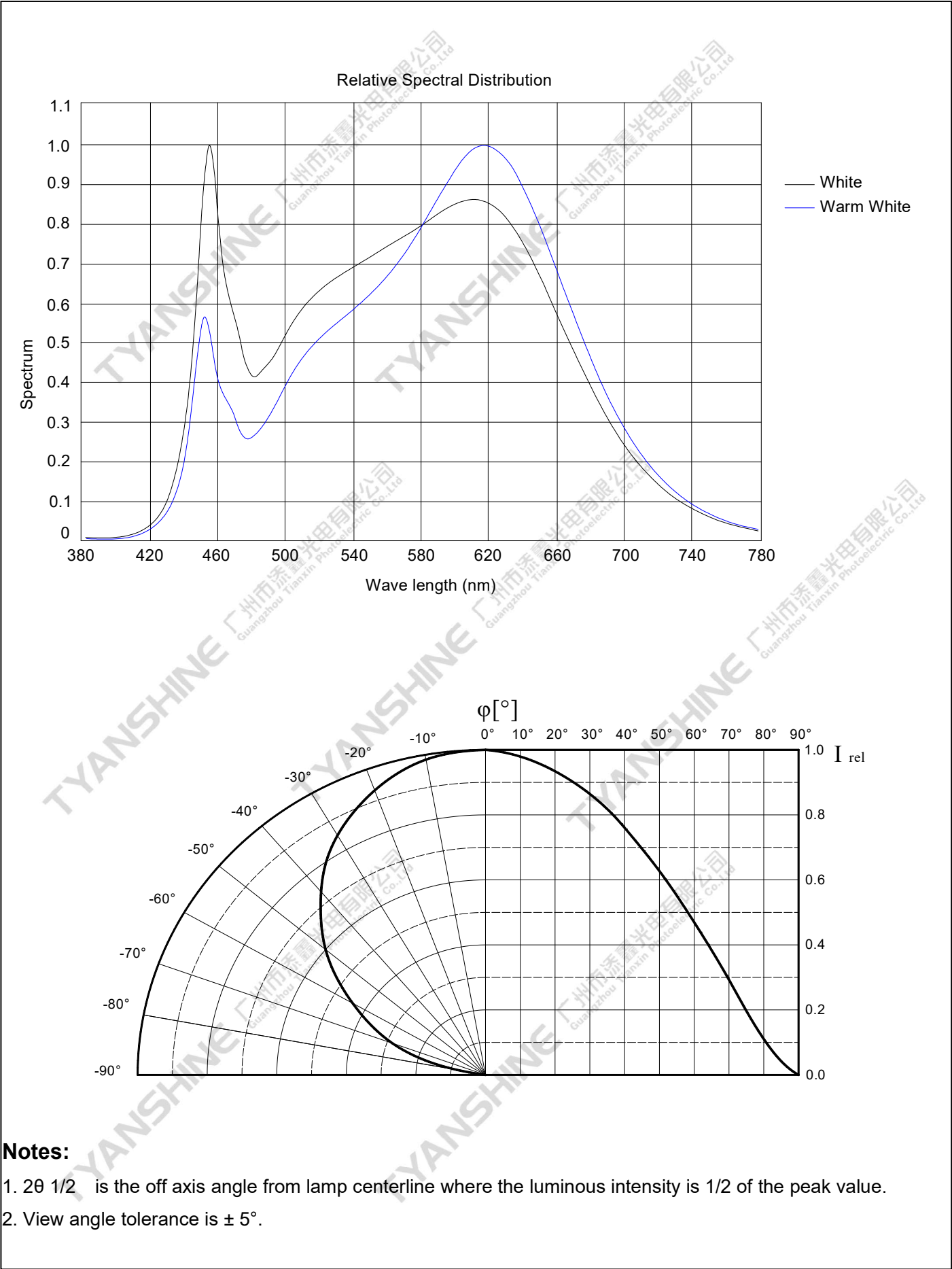
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Typical Electrical/Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

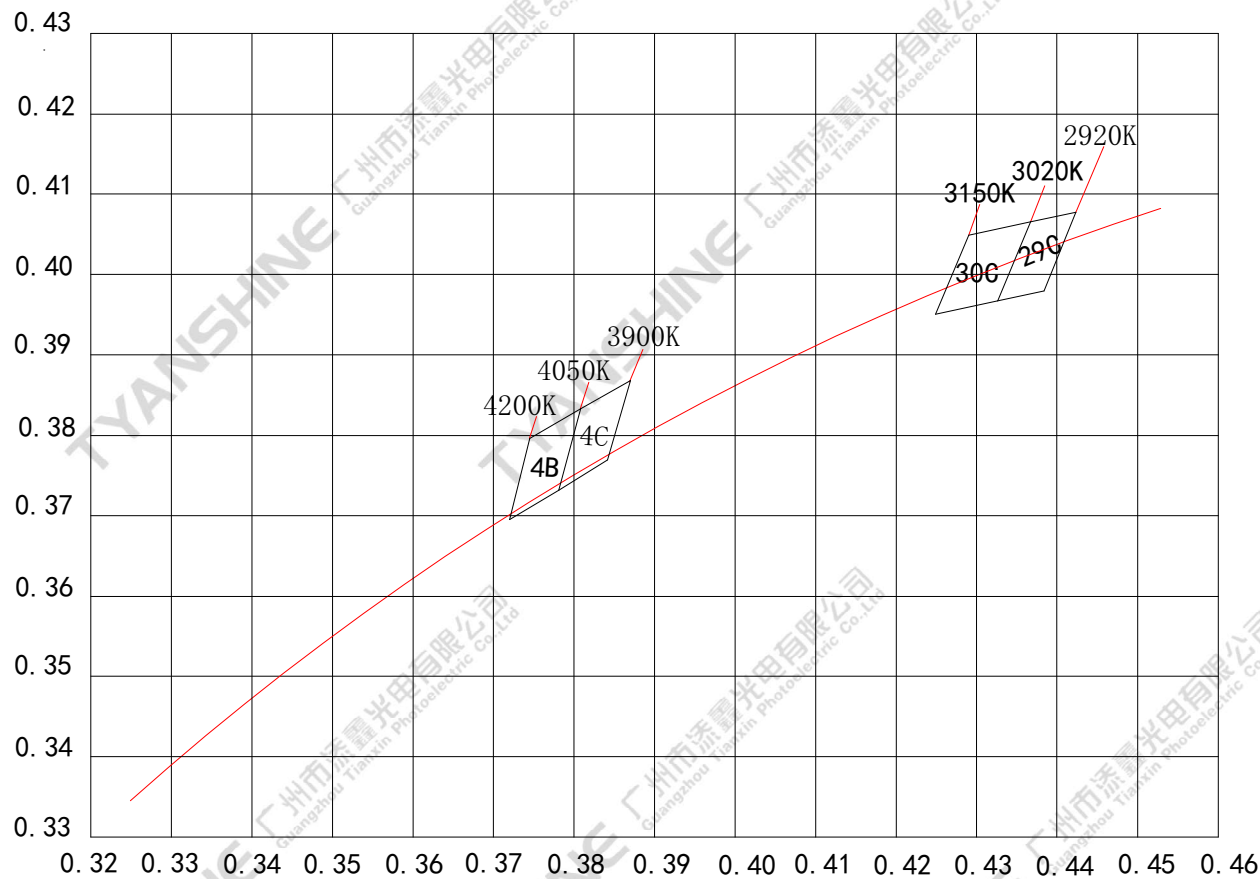






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Chromaticity Coordinates (Condition: IF=250mA, Tc=25℃)



Notes:

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

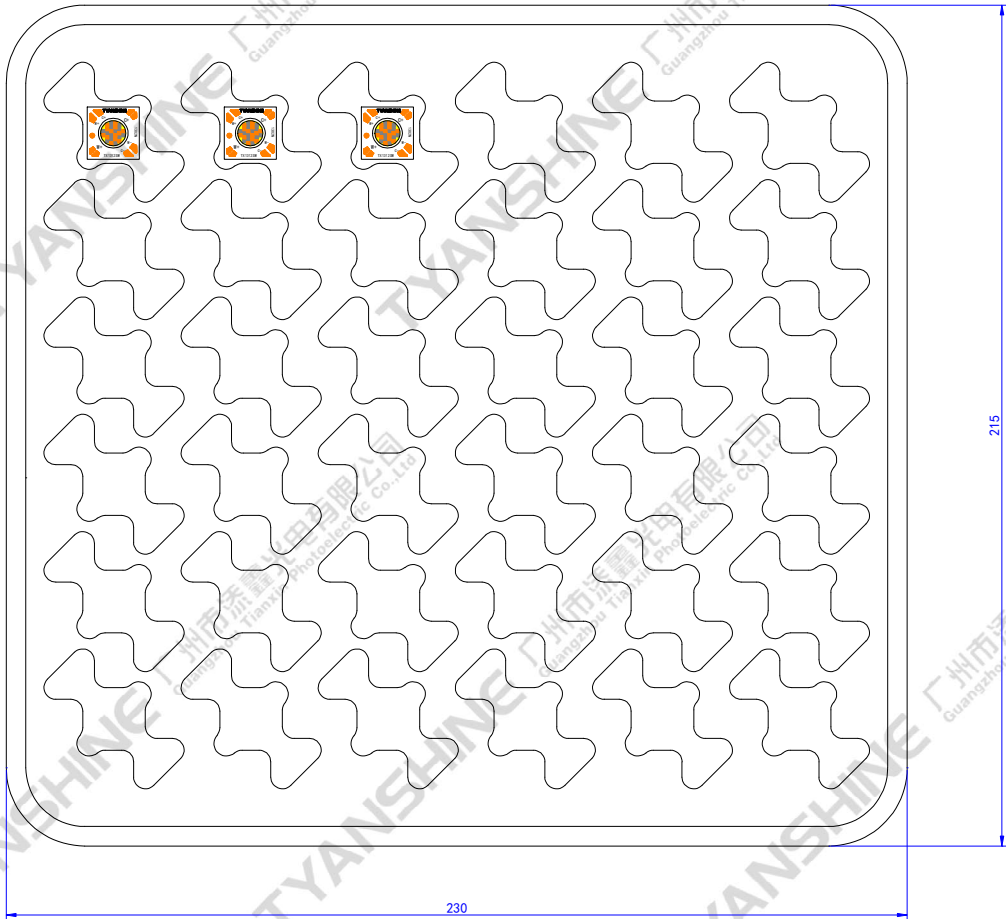
Reliability Test

Test Item	Test Condition
Continuous Operation Test	IF=250mA Ta=25℃ × 1000hrs
Low Temperature Storage Test	-30℃ × 1000hrs
High Temperature Storage Test	100℃ × 1000hrs
Moisture-proof Test	85℃ , 85%RH for 500 hours
Thermal Shock Test	-40℃ × 15minutes-125℃ × 15minutes,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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