

TX-1307SW08F12-08H902760

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:

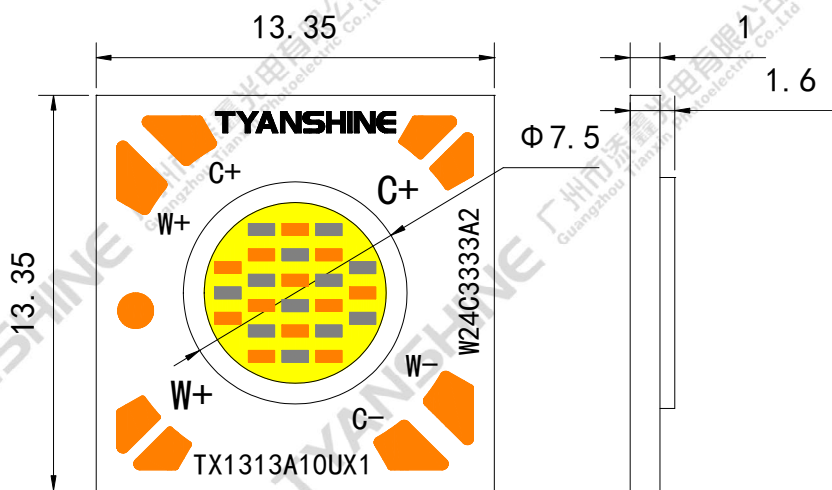
- ◆Warm White
- ◆White

Applications:

- ◆Commercial lighting
- ◆General Lighting

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Package Dimensions:

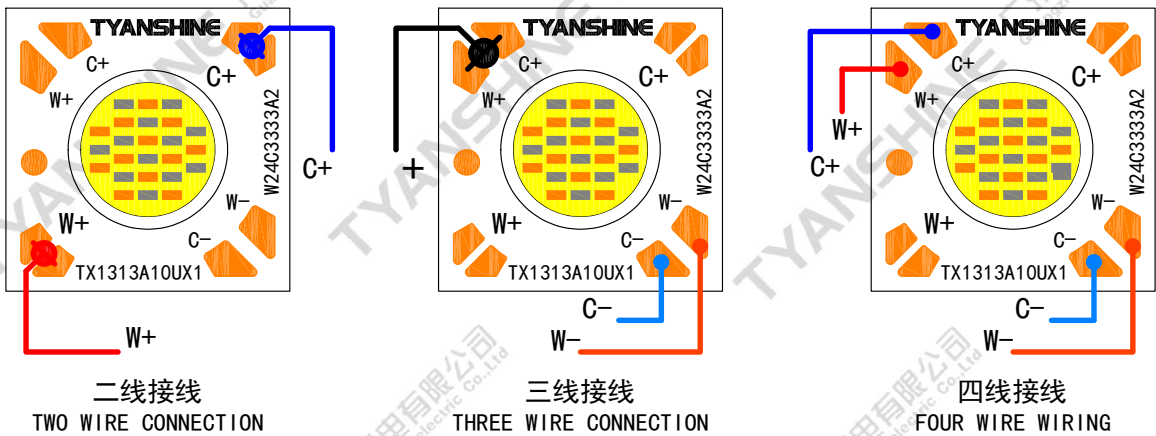


W: Warm White ; C:White

Notes:

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

Connections:



Code Formats:

TX-1307SW08F12-08H902760

TX	—	13	07	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		250	mA
Reverse Voltage	VR		Not designed for reverse operation	V
Power Dissipation	PD	W	9	W
		C	9	
		W+C	9	
Junction Temperature	Tj	W	150	℃
		C	150	
Case Temperature (C)	Tc		85	℃
Electrostatic Discharge Threshold (ESD)	ESD		2000	V
Storage Temperature	Tstg		-30~+80	℃
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.

Electrical Optical Characteristics (Tc=25°C)

Parameter	Symbol	Condition	Emitting color	Min.	Typ.	Max.	Units
Luminous Flux	Φ_v	If=200mA	W	520	580	660	lm
			C	630	700	800	
Forward Voltage	V_f		W	34	36	38	V
			C	34	36	38	
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	$R\theta_{J-C}$	If=200mA	—	—	3.8	—	K/W
Color Rendering Index	R_a		W	90	—	—	—
			C	90	—	—	

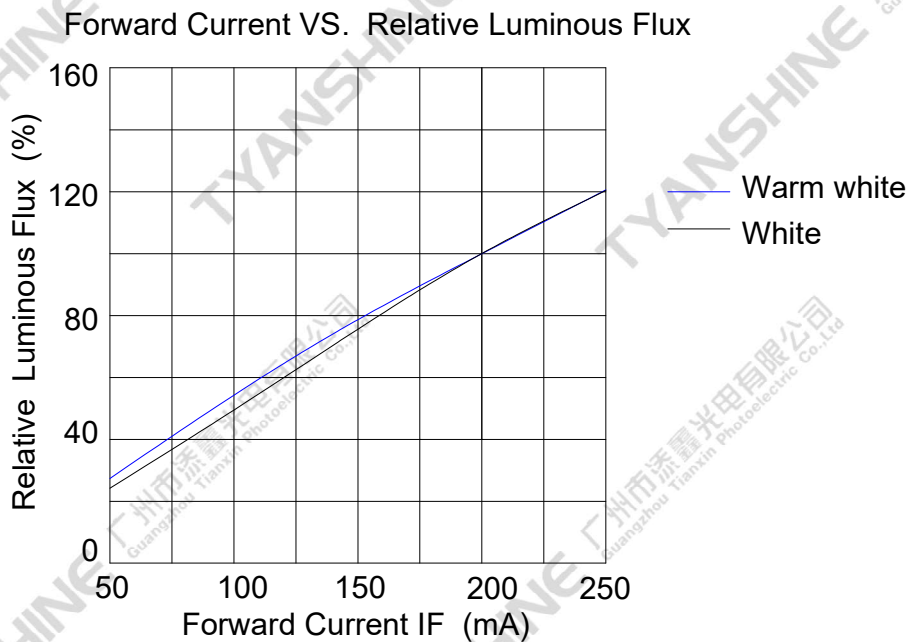
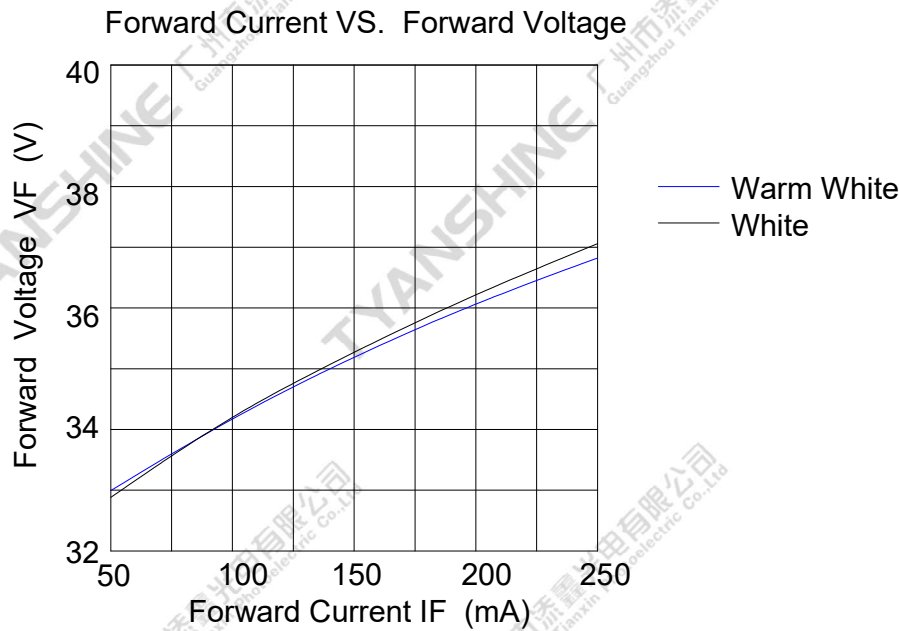
Notes:

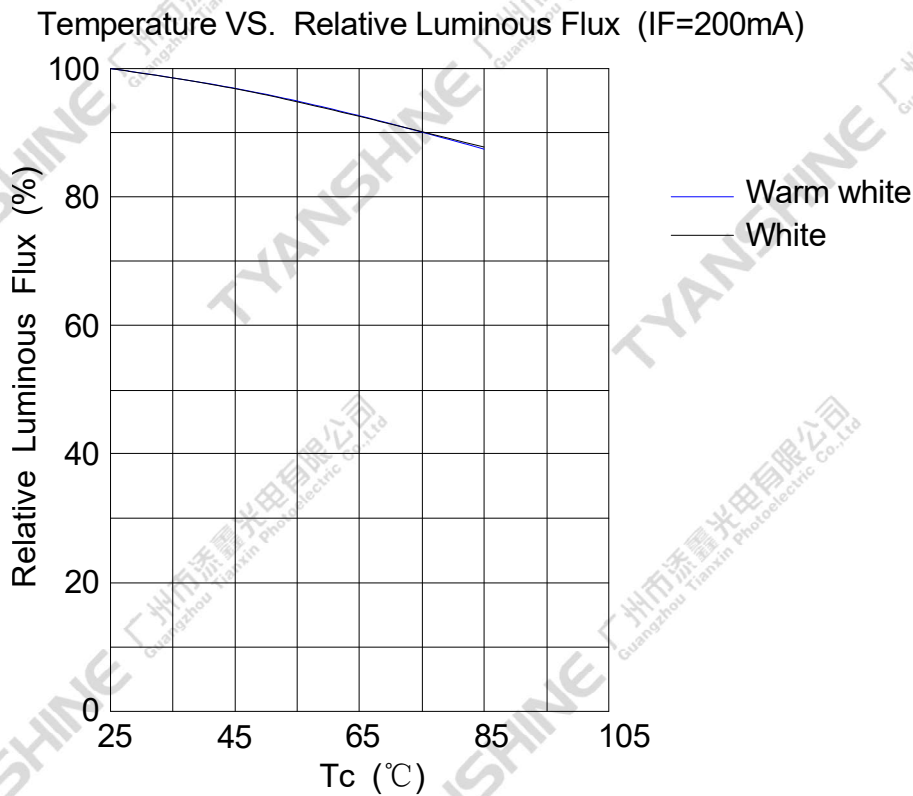
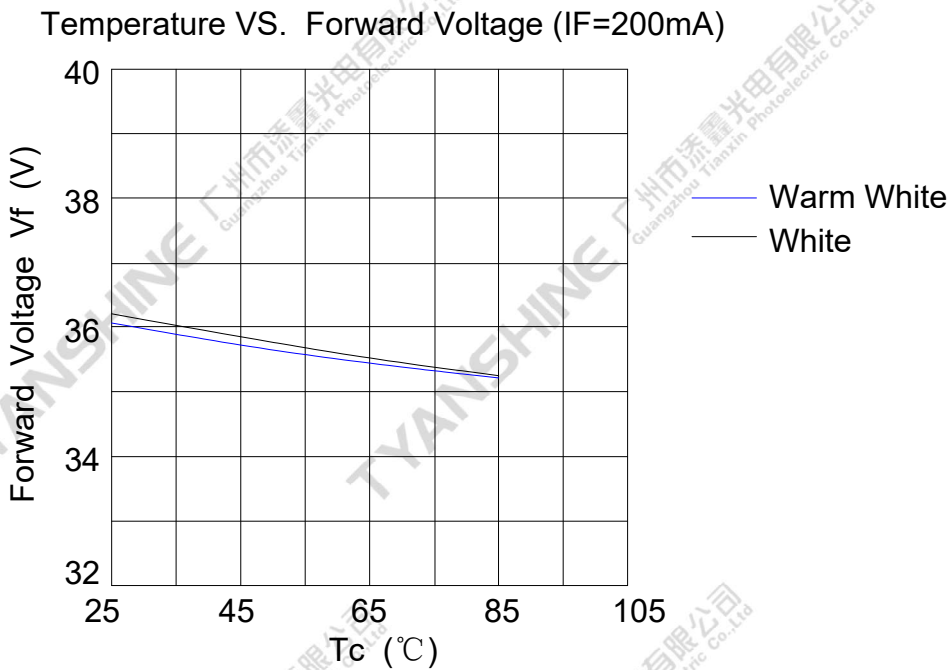
- 1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3.Luminous flux measurement tolerance: $\pm 15\%$.
- 4.Forward voltage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

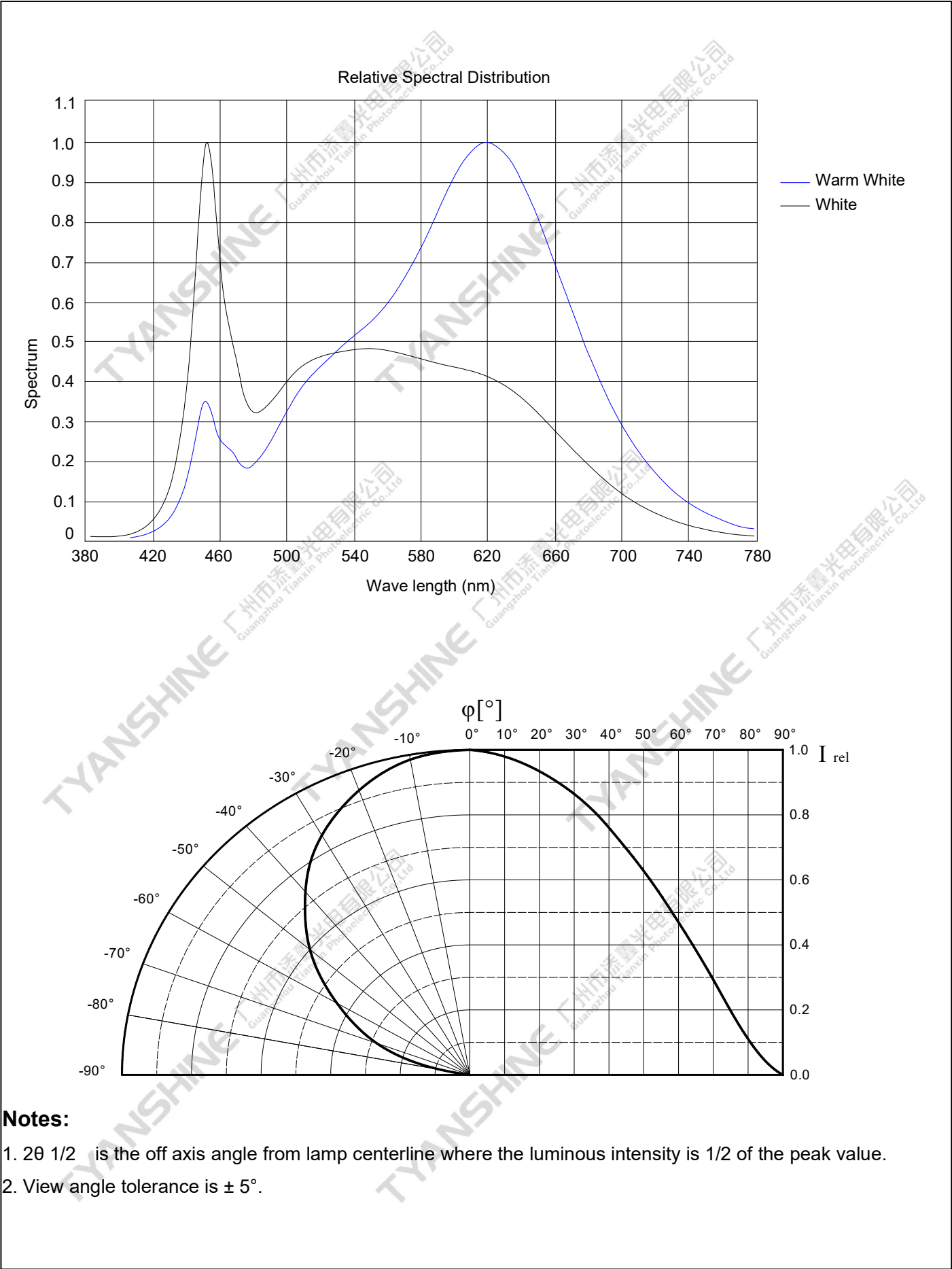
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Typical Electrical/Optical Characteristics Curves

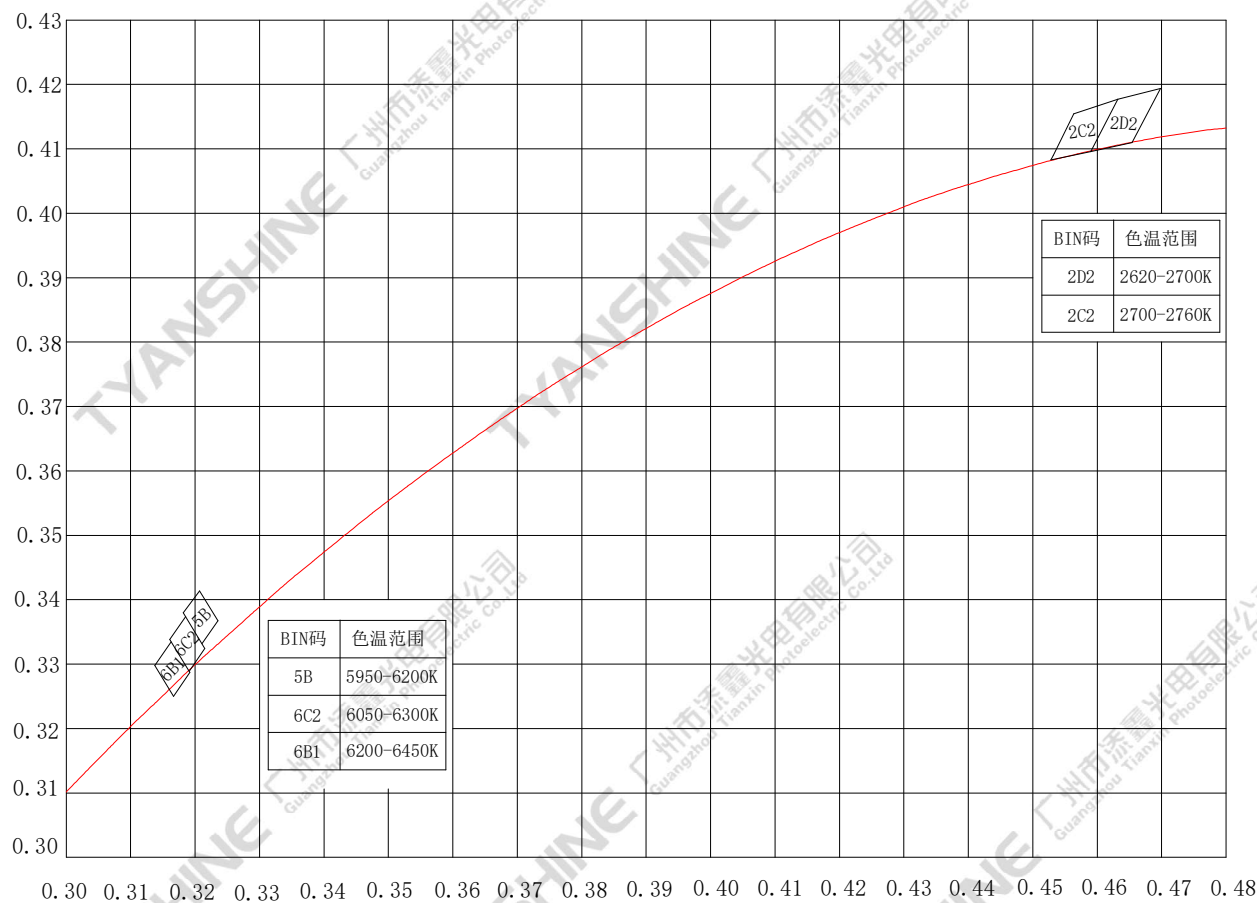
(25°C Ambient Temperature Unless Otherwise Noted)







Chromaticity Coordinates (Condition: IF=200mA, Tc=25℃)



Notes:

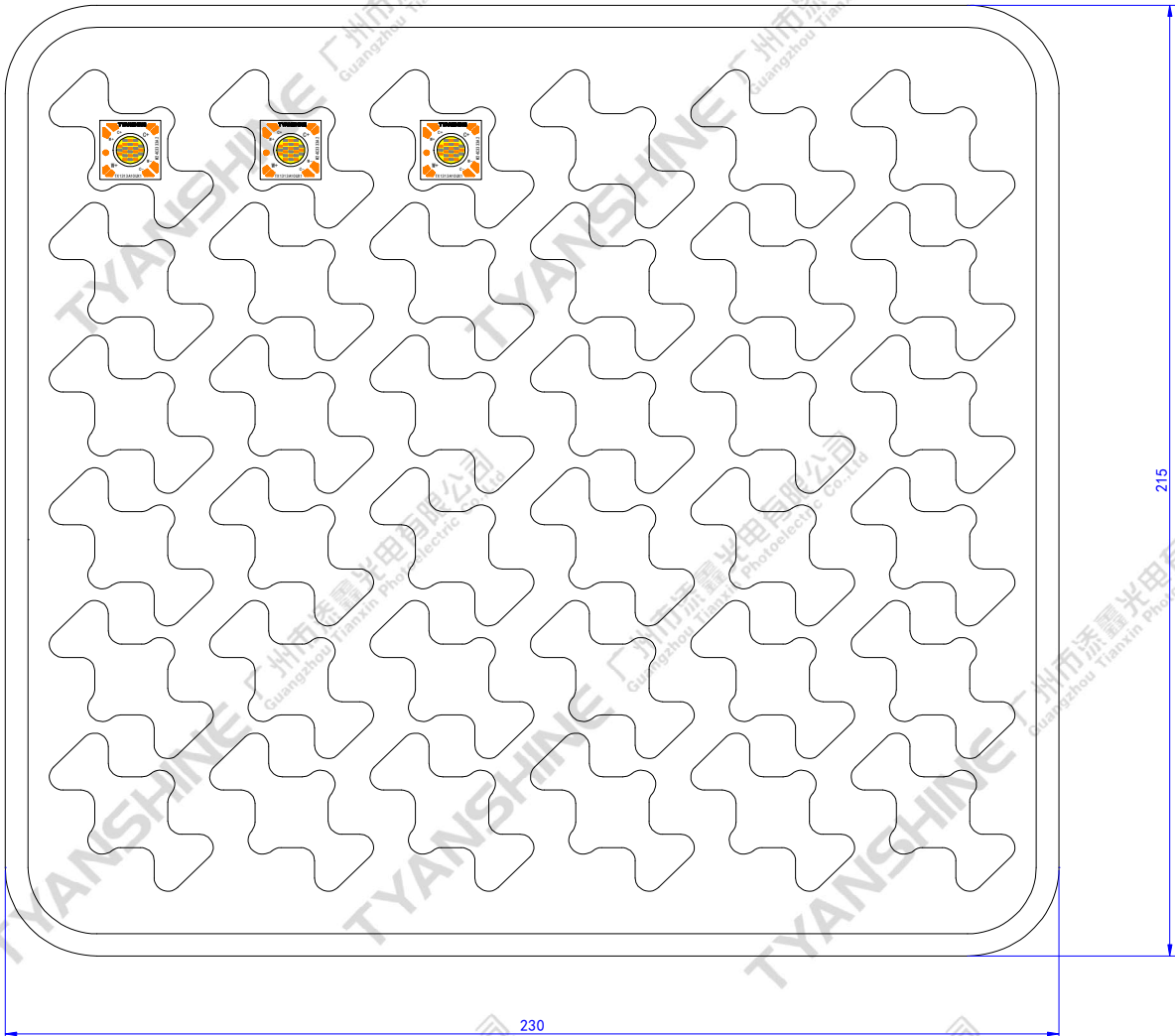
1. chromaticity (x, y) measurements tolerance: ±0.005.

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	-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.