

TX-52500SW33A-2863V42-02H95

PRODUCT SPECIFICATION

Features:

- ◆ Excellent transiting heat from LED chip operating under 7000mA.
- ◆ 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:

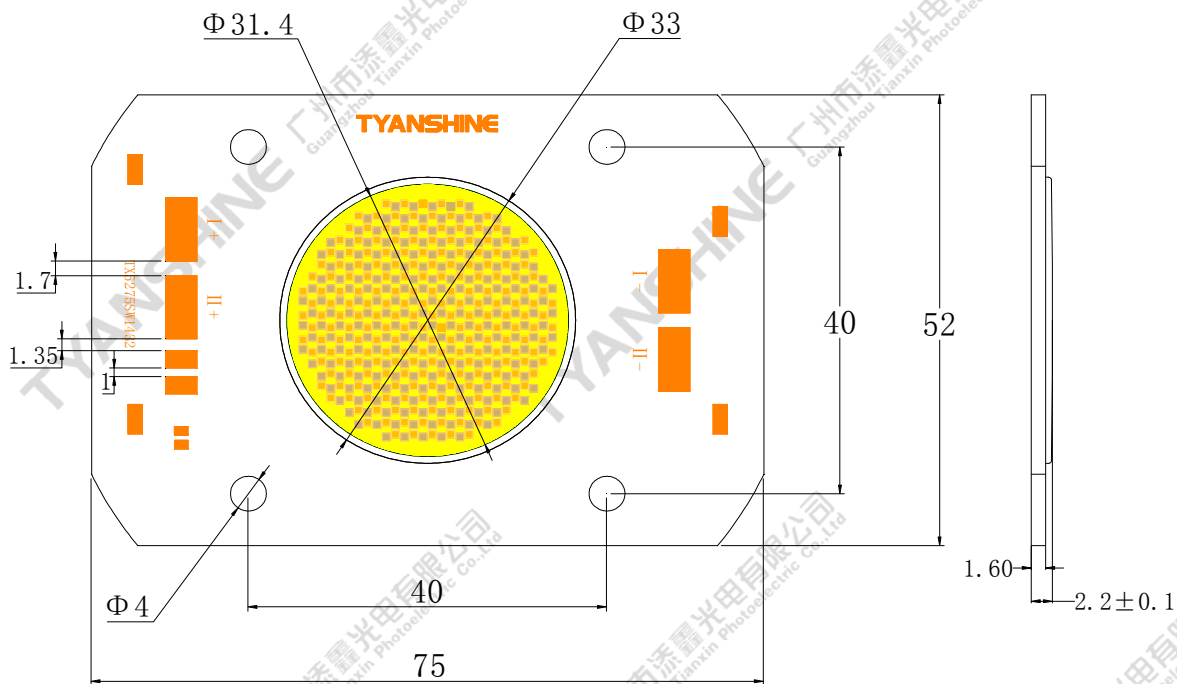
- ◆ White
- ◆ Warm white

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-52500SW33A-2863V42-02H95

TX	—	52	500	SW	33	A	—	2863	V42	—	02	H95
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		7000	mA
Reverse Voltage	VR		Not designed for reverse operation	V
Power Dissipation	PD	W	250	W
		S	250	
Junction Temperature	Tj	W	135	℃
		S	135	
Case Temperature (C)	Tc		85	℃
Electrostatic Discharge Threshold (ESD)	ESD		2000	V
Storage Temperature	Tstg		-30~+100	℃
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.

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Electrical Optical Characteristics (Tc=25°C)

Parameter	Symbol	Condition	Emitting color	Min.	Typ.	Max.	Units	
Luminous Flux	φ_v	If=6000mA	S	—	15000	—	lm	
			W	—	22000	—		
Forward Voltage	V_f		S	40	42	43	V	
			W	40	42	43		
Correlated Colour Temperature	CCT		S	—	2800	—	K	
			W	—	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=6000mA	S	—	0.11	—	K/W
				W	—	0.11	—	
Temperature Coefficient of Voltage	$V\Delta F/T$	S		—	-16.7	—	mV/°C	
		W		—	-16.7	—		
Color Rendering Index	Ra	S		—	95	—	—	
		W		—	95	—		

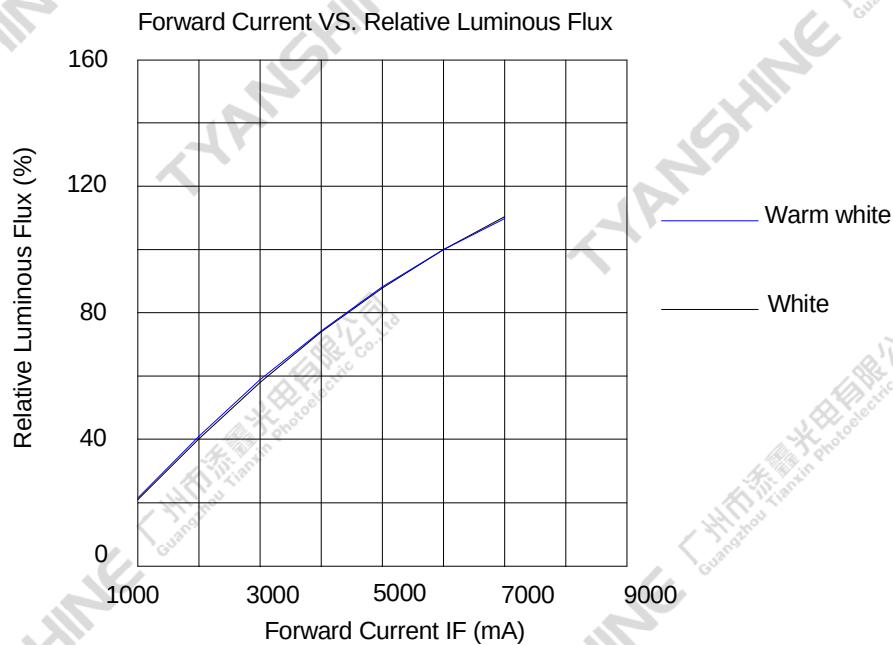
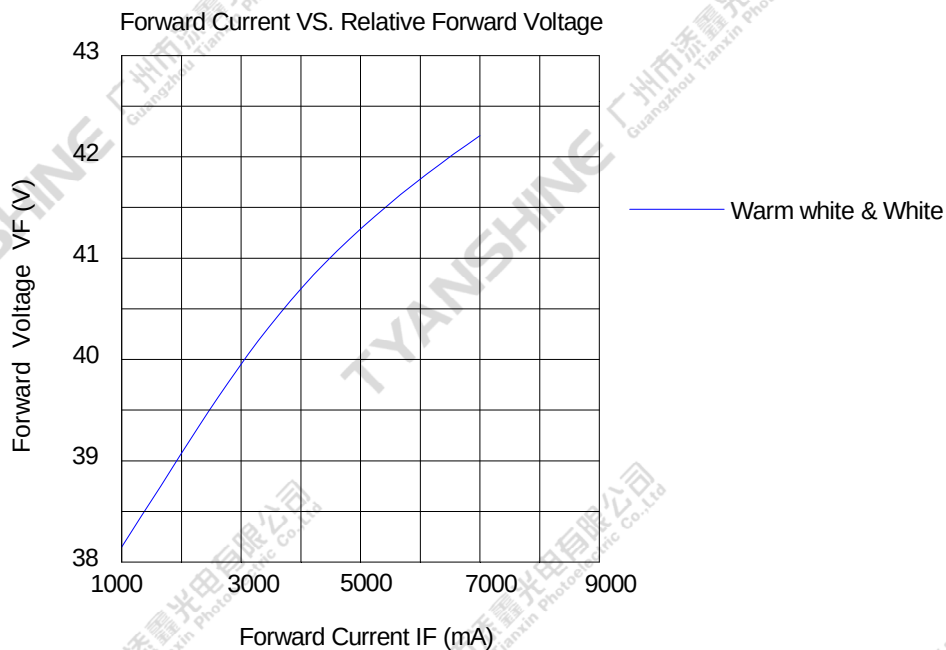
Notes:

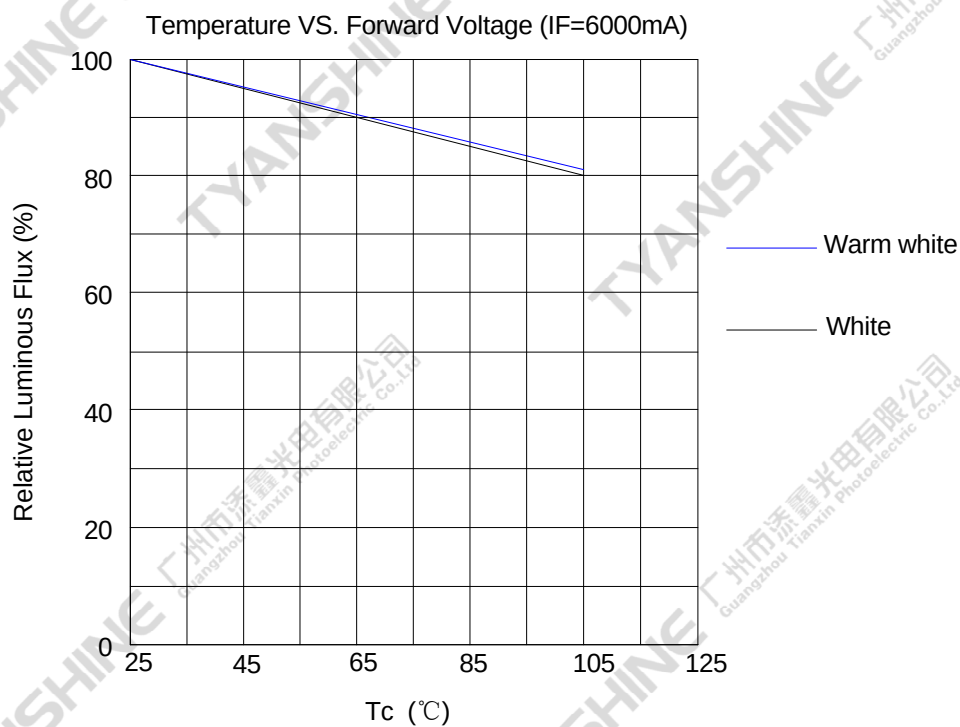
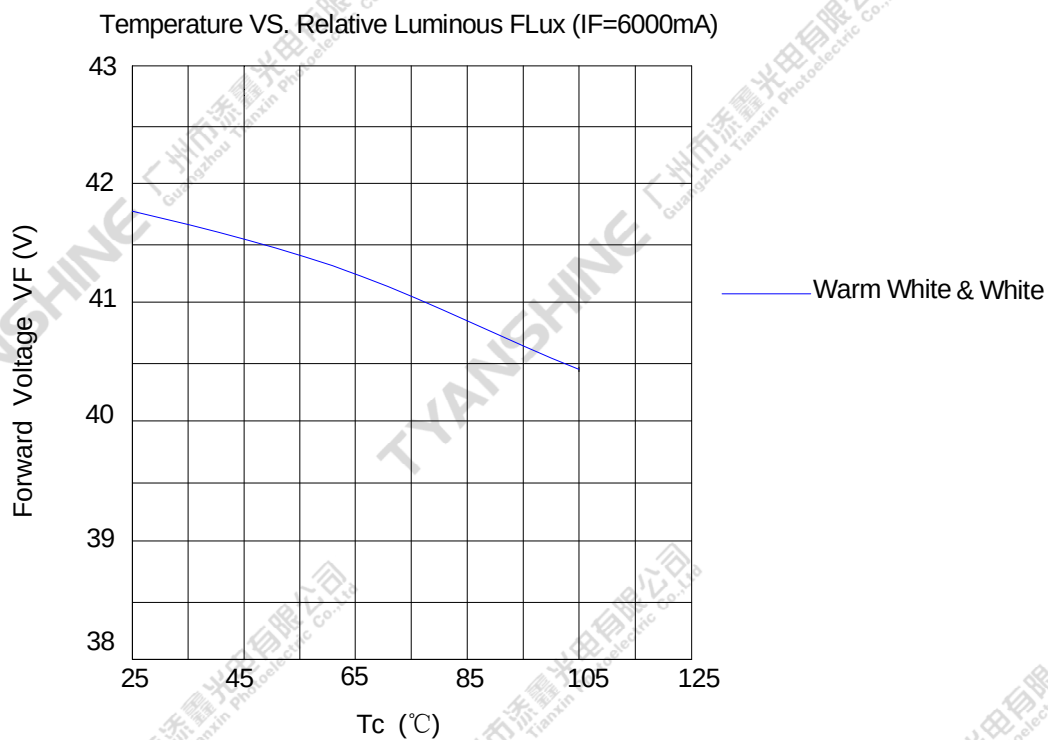
- 1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3.Luminous flux measurement tolerance: $\pm 15\%$.
- 4.Forward voltage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

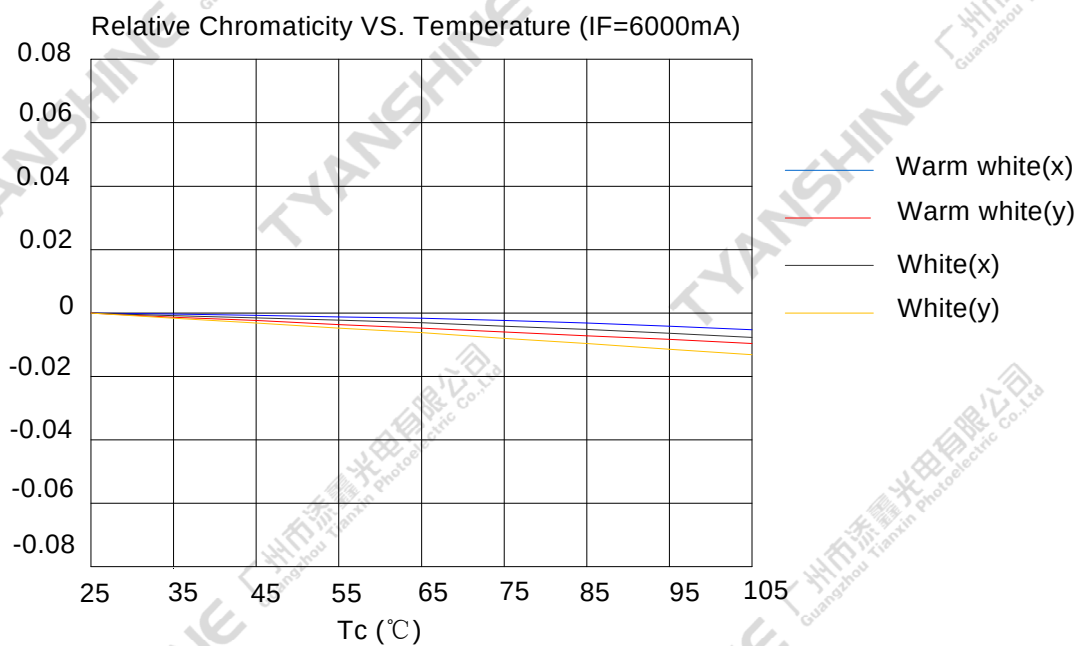
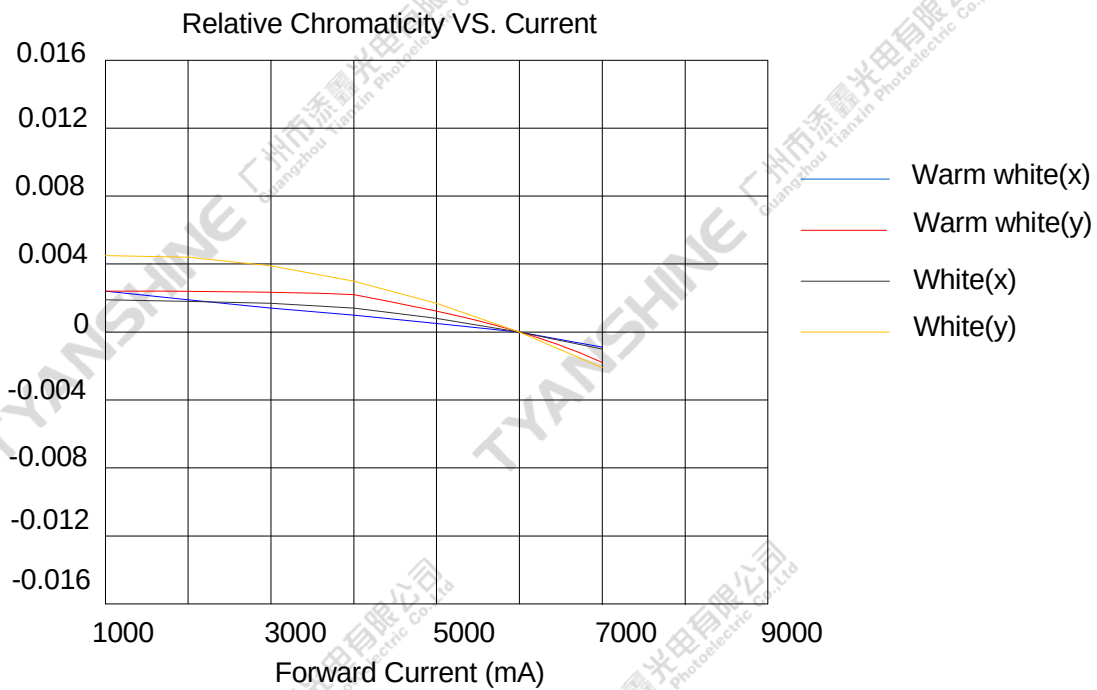
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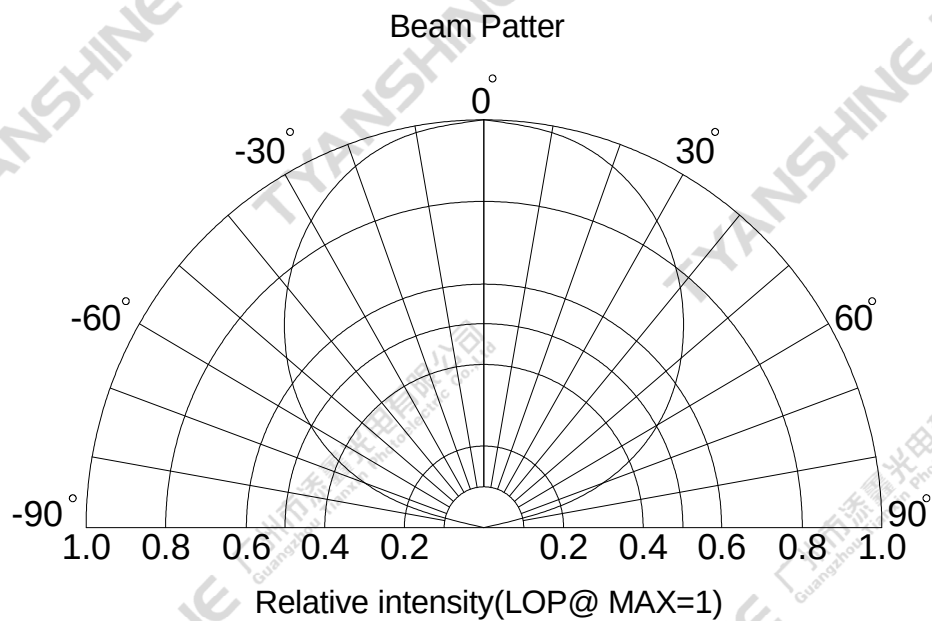
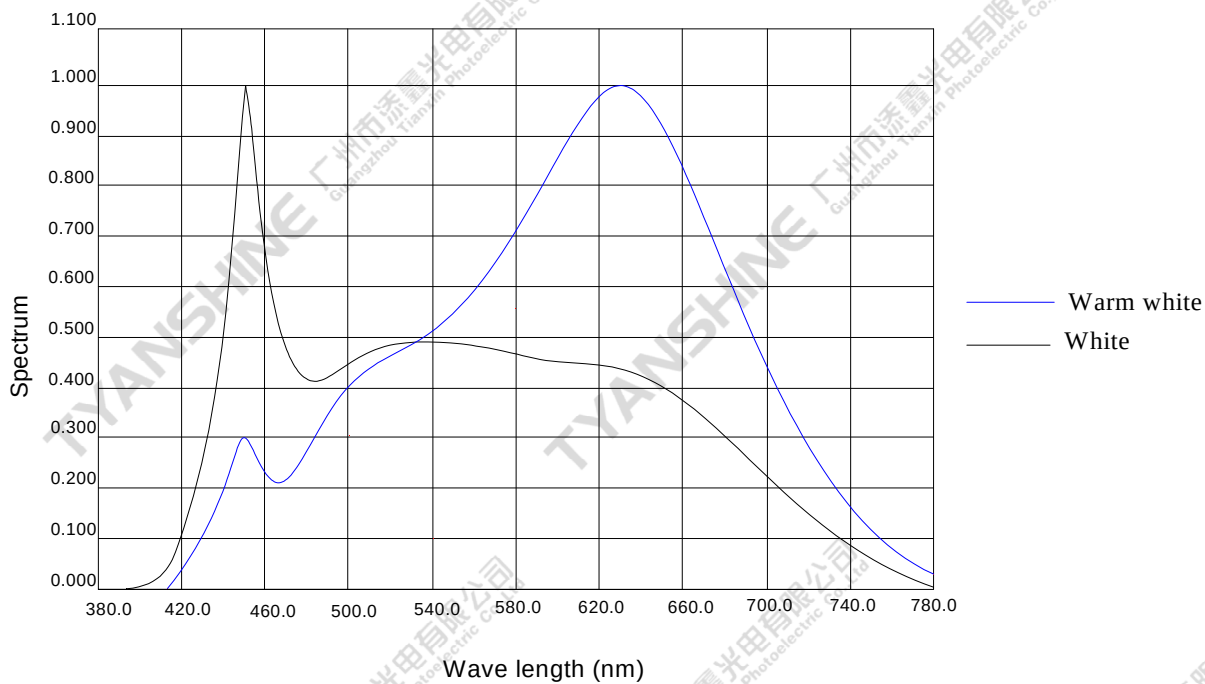
Typical Electrical/Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)







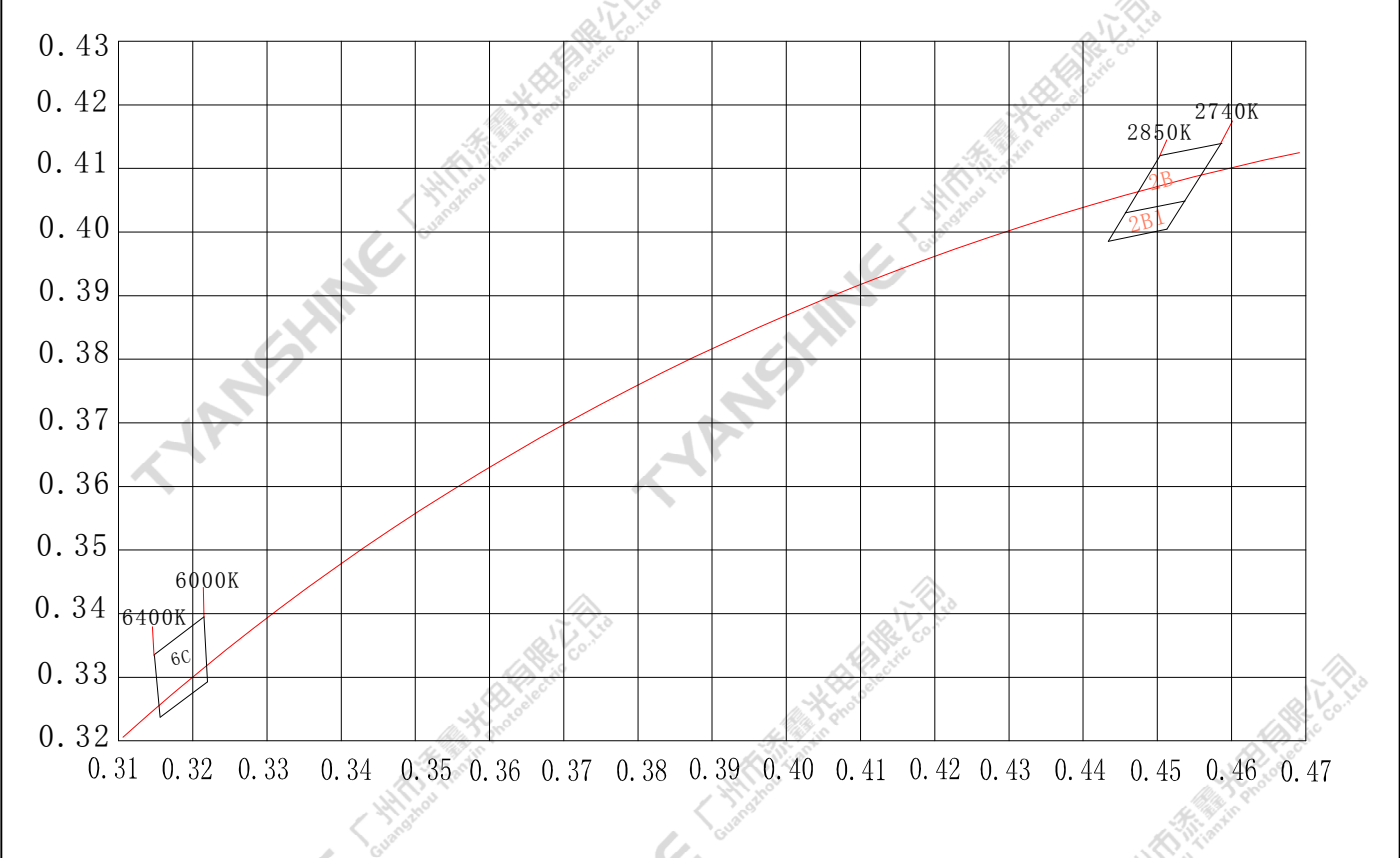


Notes:

- 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 $\pm 5^\circ$.

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Chromaticity Coordinates (Condition : IF=6000mA , Tc=25℃)



Notes:

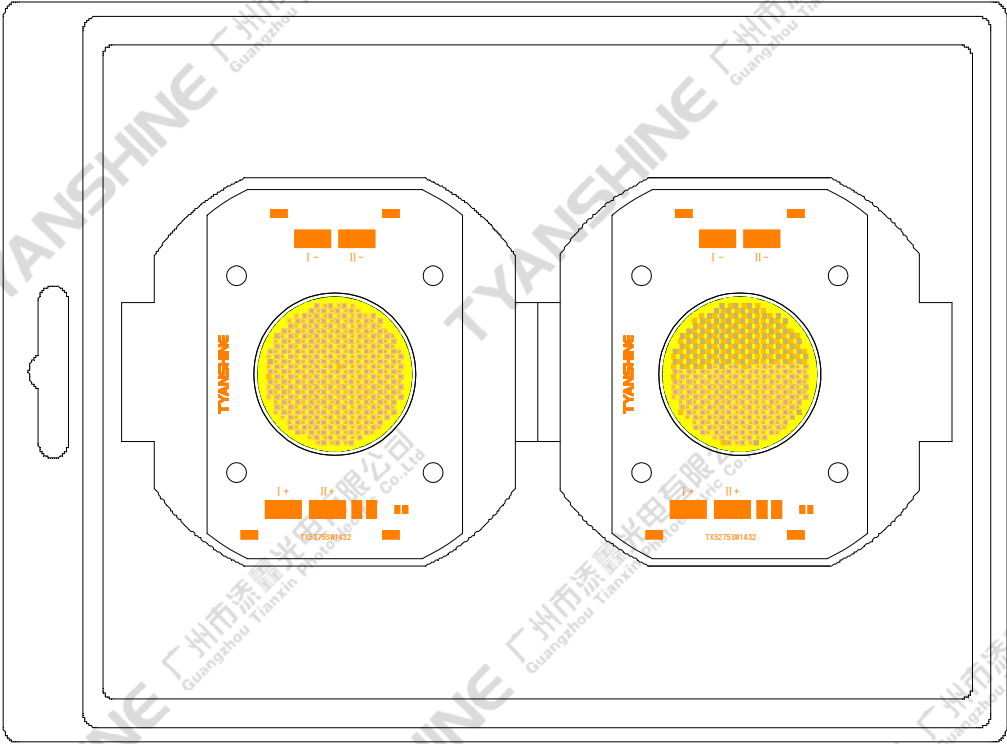
1.chromaticity (x, y) measurements tolerance:±0.005.

Reliability Test

Test Item	Test Condition
Continuous Operation Test	IF=6000mA 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

Dimensions For Cannulation And Packaging

Quantity:2 PCS



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, Irre sponsible of the Company.

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