

TX-H1512SW11A-2860V36-02H90

PRODUCT SPECIFICATION

Features:

- ◆Excellent transiting heat from LED chip operating under 600mA.
- ◆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:

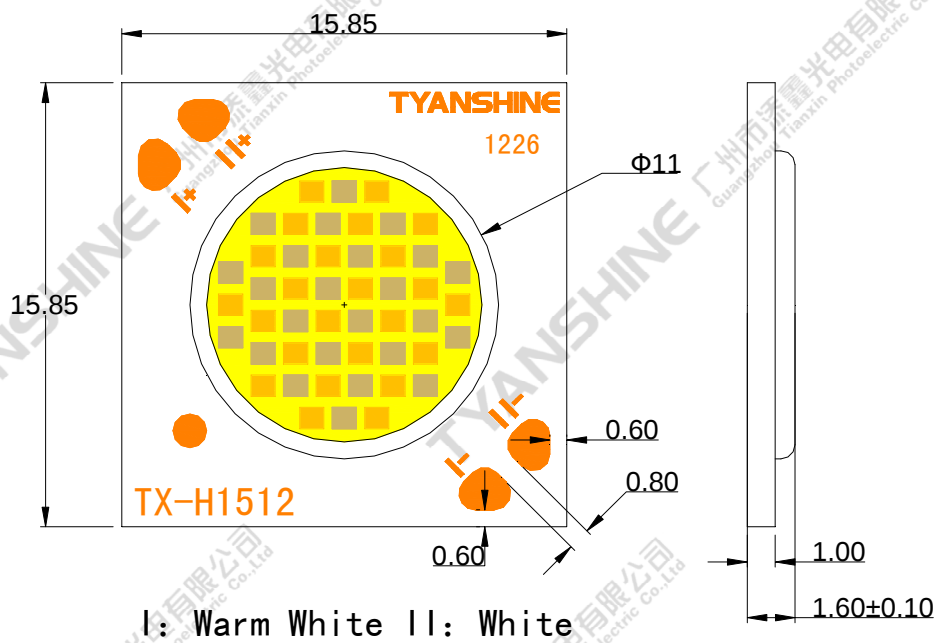
- ◆White
- ◆Warm white

Applications:

- ◆Commercial lighting
- ◆General Lighting

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Package Dimensions:



Notes:

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

Code Formats:

TX-H1512SW11A-2860V36-02H90

TX	—	H	15	12	SW	11	A	—	2860	V36	—	02	H90
TYANSHINE	—	high density	series	watt typ	performance	LES	texture	—	CCT	VOLTs	—	BOM	Ra
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Absolute Maximum Ratings

Parameter	Symbol		Ratings	Unit
Forward Current	IF		600	mA
Reverse Voltage	VR		Not designed for reverse operation	V
Power Dissipation	PD	W	20	W
		S	20	
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:

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.

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Electrical Optical Characteristics (Tc=25°C)

Parameter	Symbol	Condition	Emitting color	Min.	Typ.	Max.	Units
Luminous Flux	φ_v	If=350mA	S	—	1150	—	lm
			W	—	1350	—	
Forward Voltage	V_f		S	32	34	36	V
			W	32	34	36	
Correlated Colour Temperature	CCT		S	—	2800	—	K
			W	—	6000	—	
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=350mA	S	—	0.71	—	K/W
			W	—	0.71	—	
Temperature Coefficient of Voltage	$V\Delta F/T$		S	—	-12.3	—	mV/°C
			W	—	-12.3	—	
Color Rendering Index	Ra		S	—	90	—	—
			W	—	90	—	

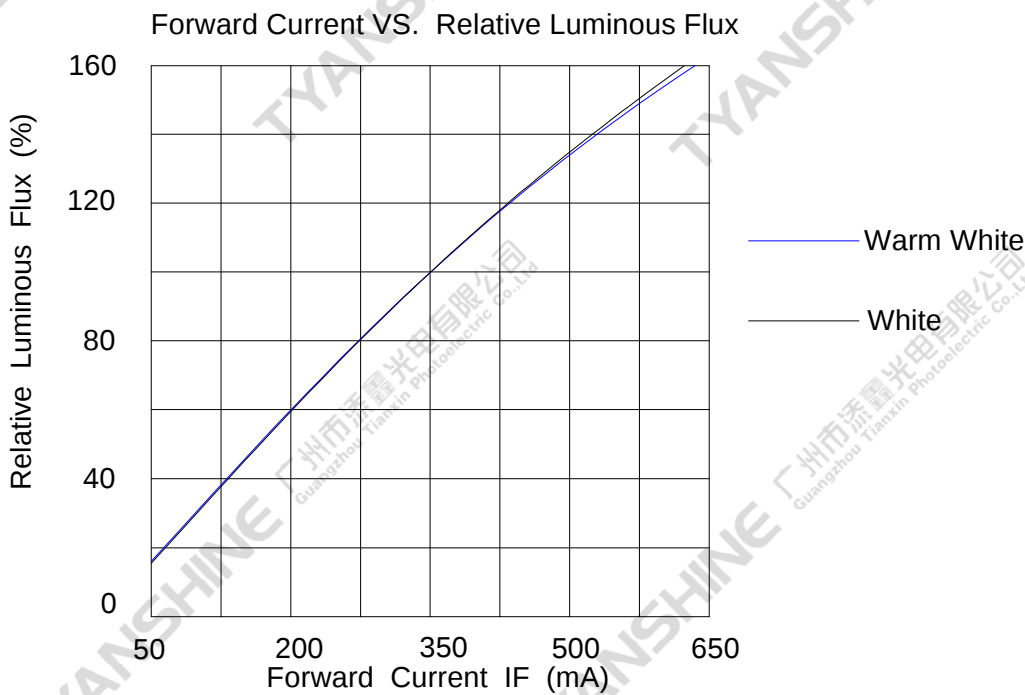
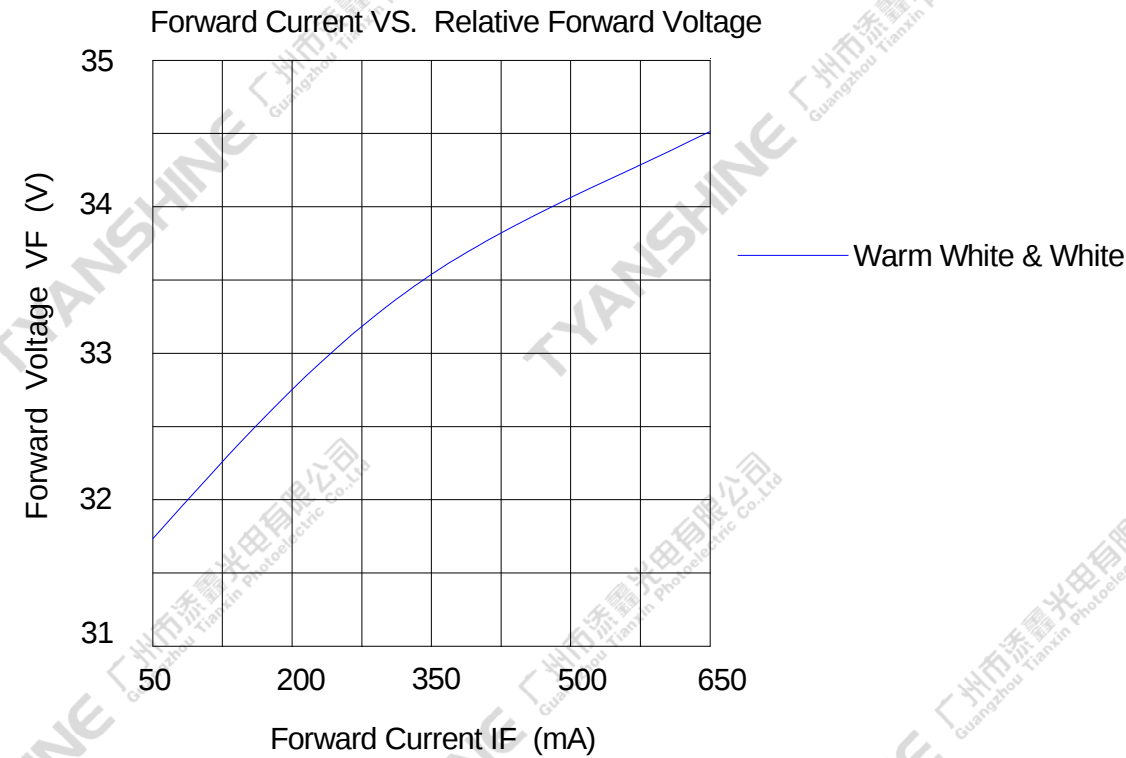
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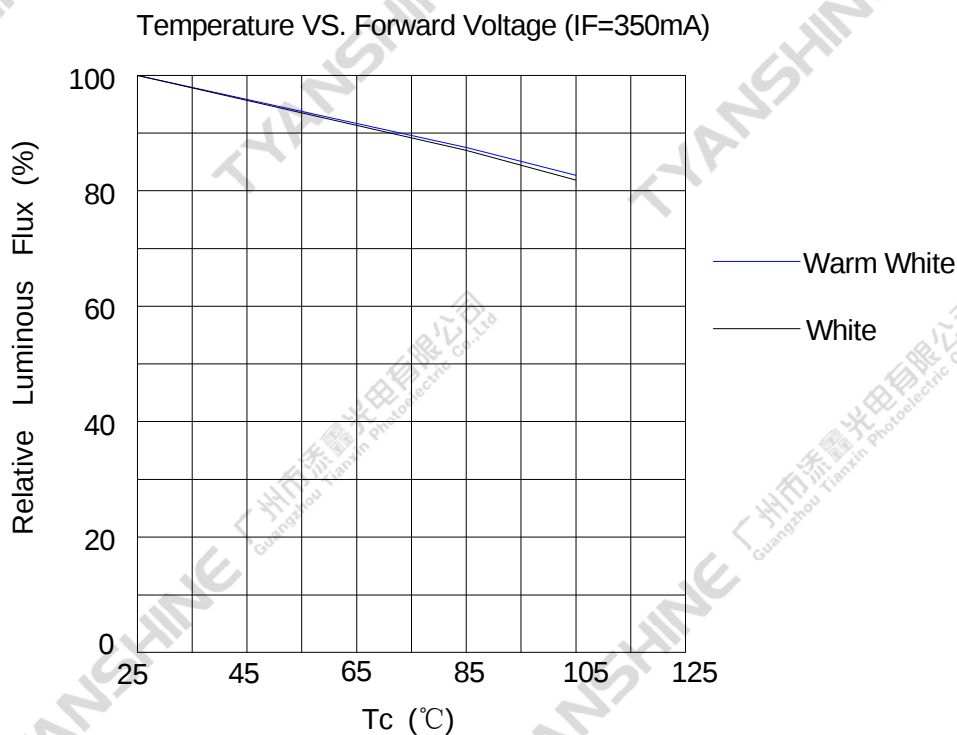
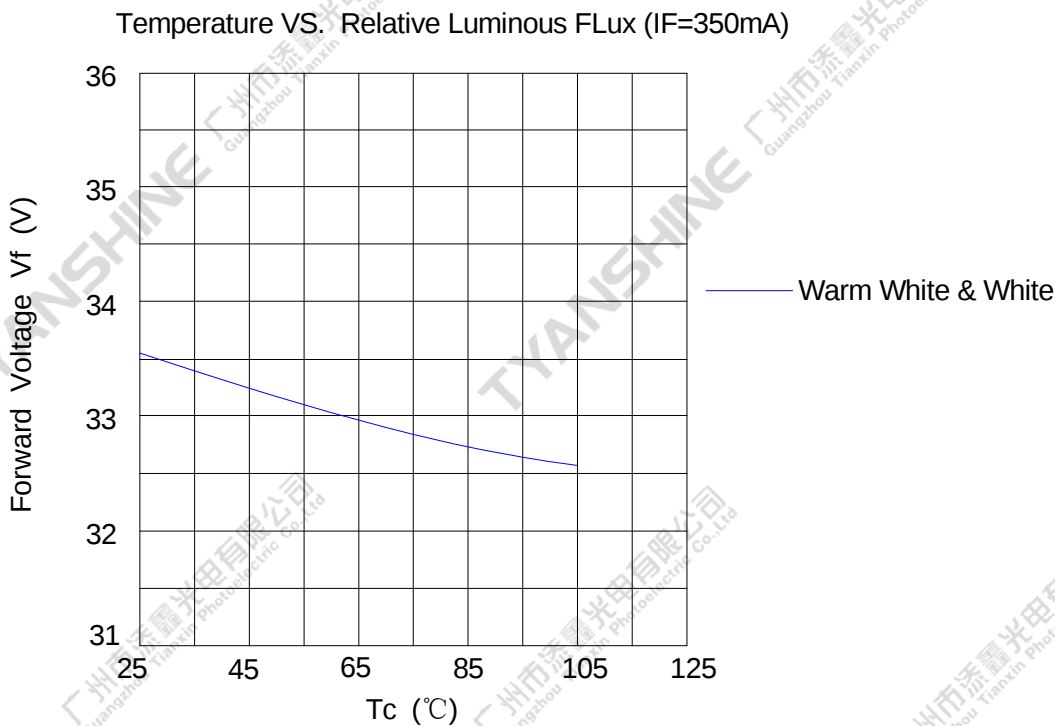
- 1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3.Luminous flux measurement tolerance:±15%.
- 4.Forward voltage measurement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

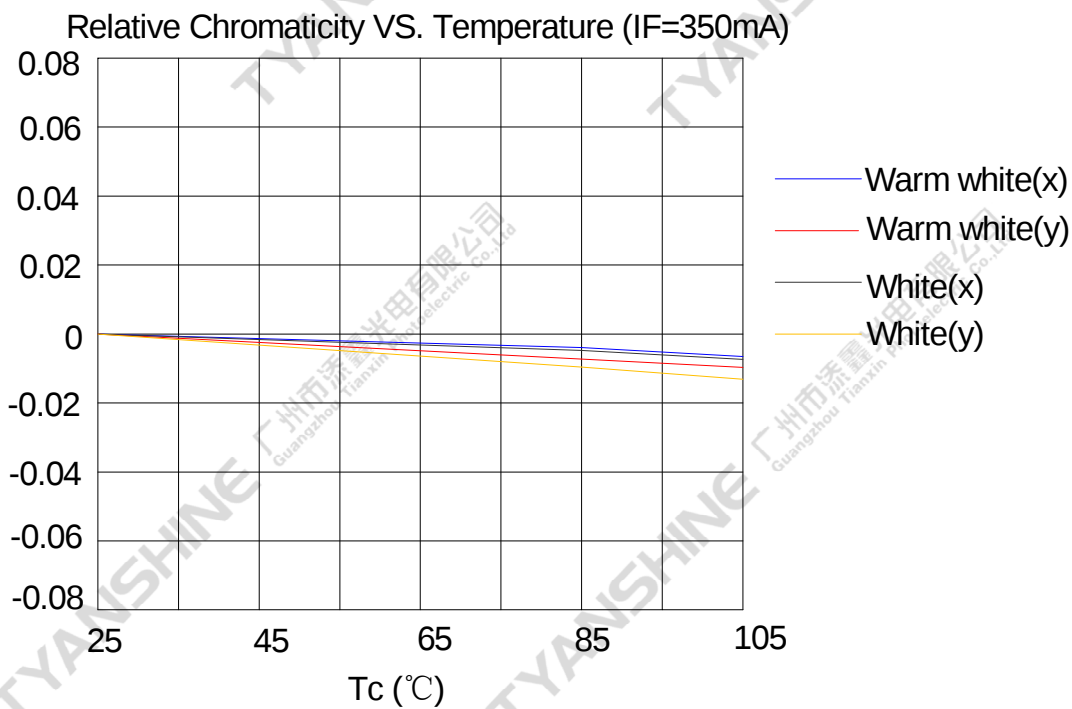
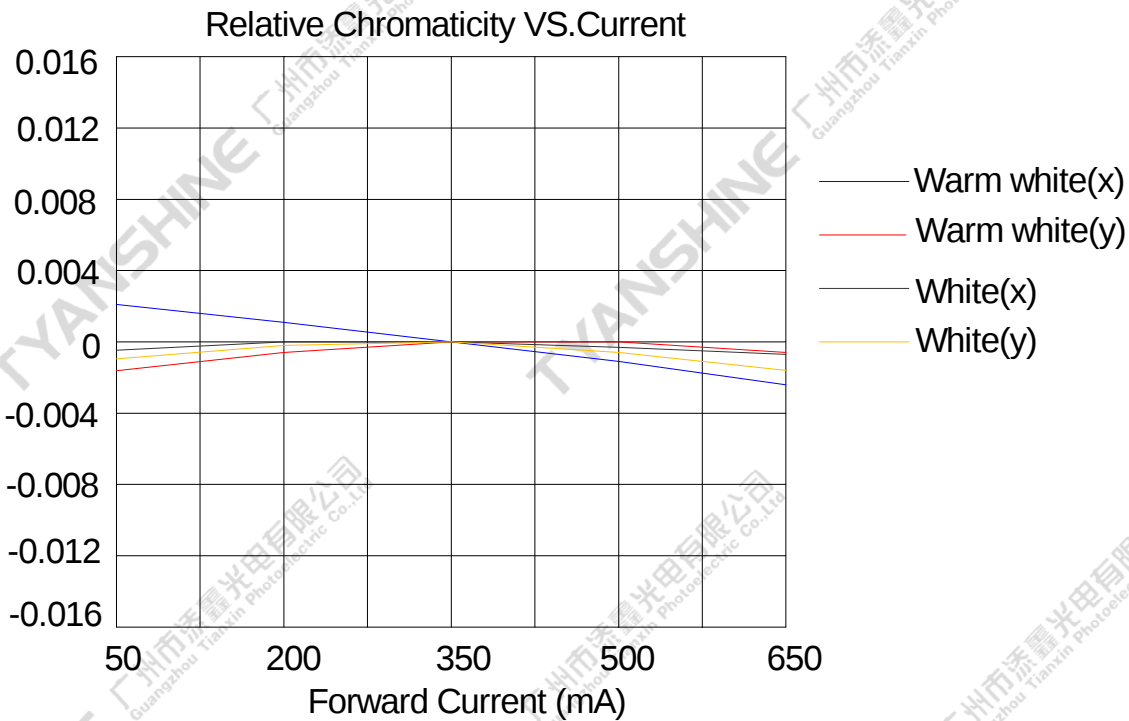
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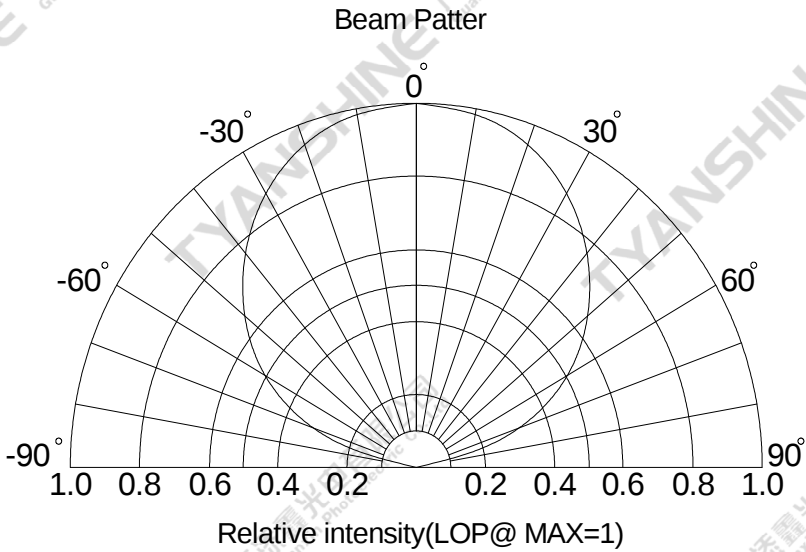
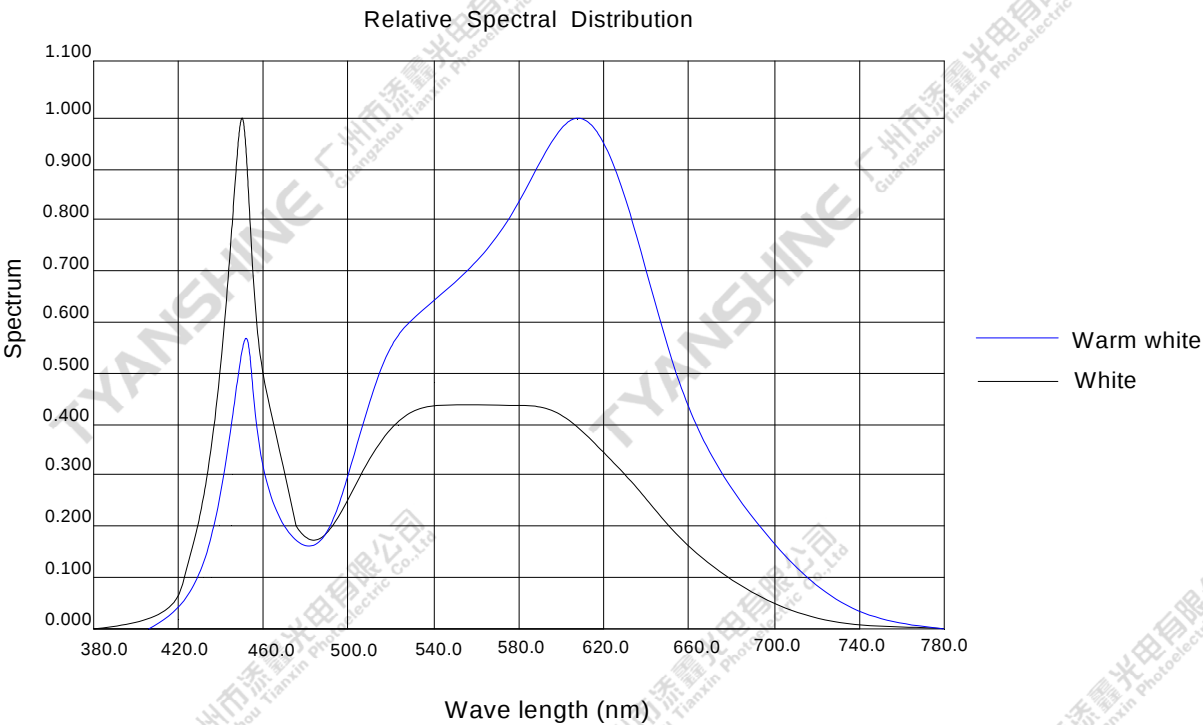
Typical Electrical/Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)





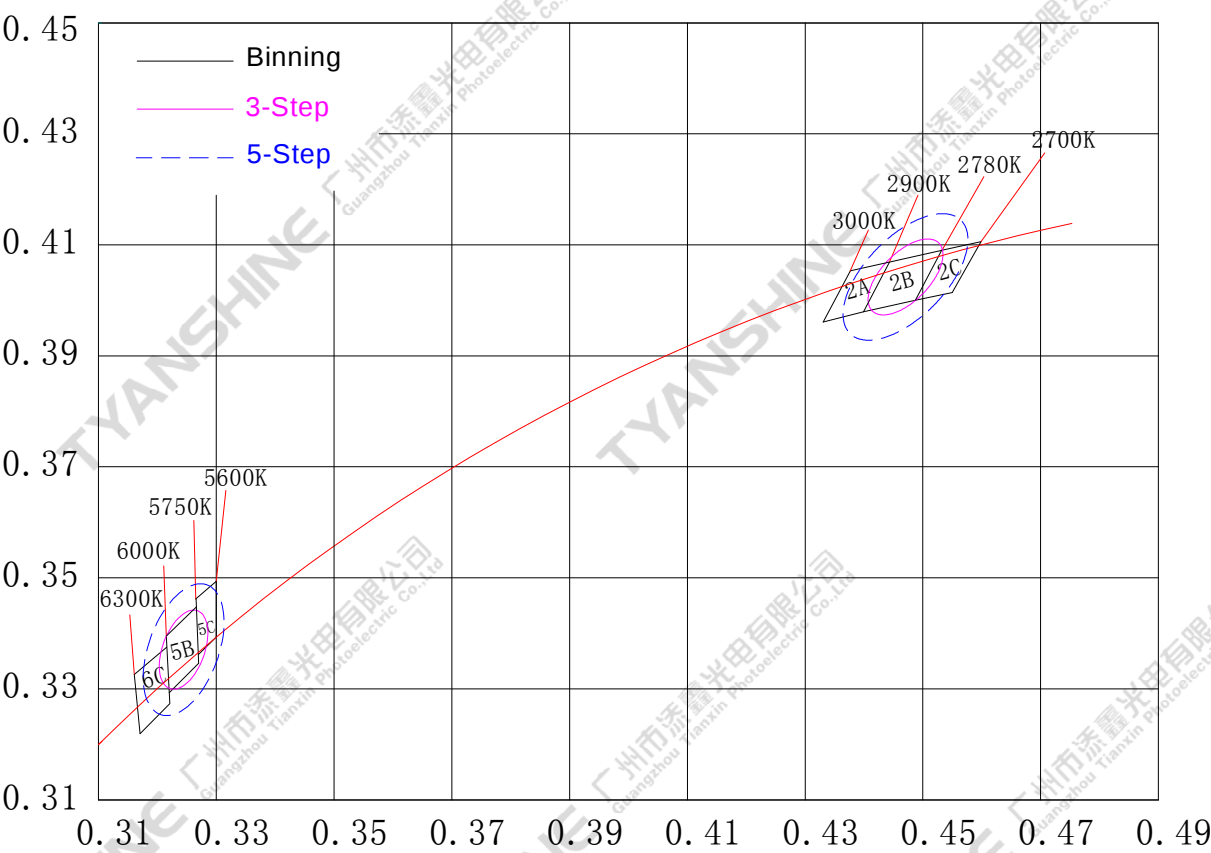




Notes:

- 1. 2θ 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 ± 5°.

Chromaticity Coordinates (Condition : IF=350mA , Tc=25℃)

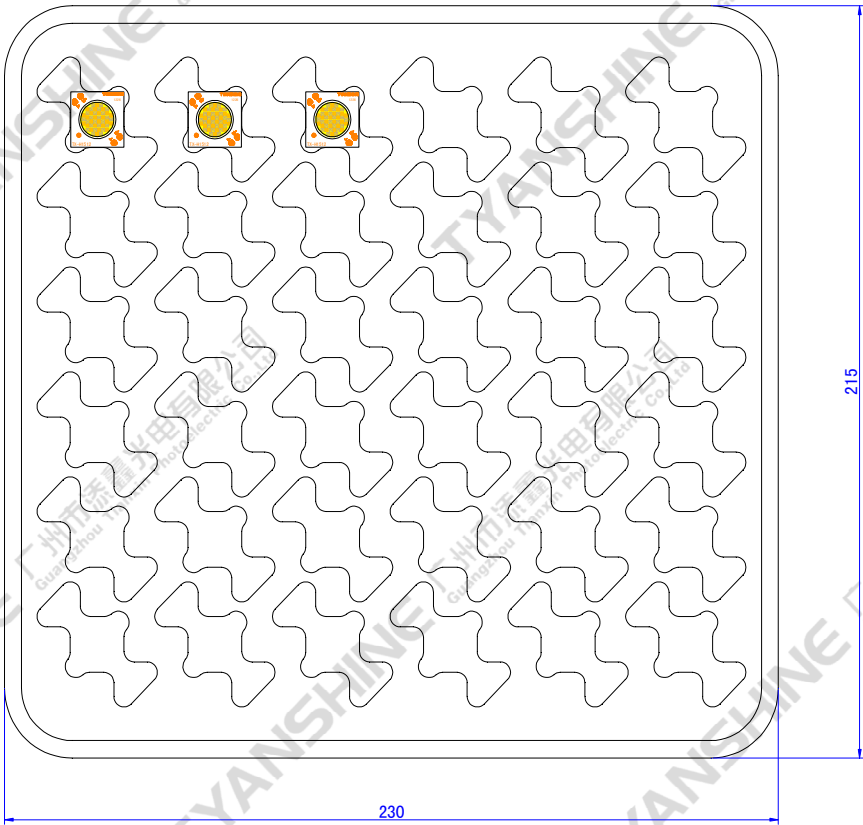


Reliability Test

Test Item	Test Condition
Continuous Operation Test	IF=350mA 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: 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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