

TX-1524SW11A-3050V39-03H90

PRODUCT SPECIFICATION

Features:

- ◆Excellent transiting heat from LED chip operating under 700mA.
- ◆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:

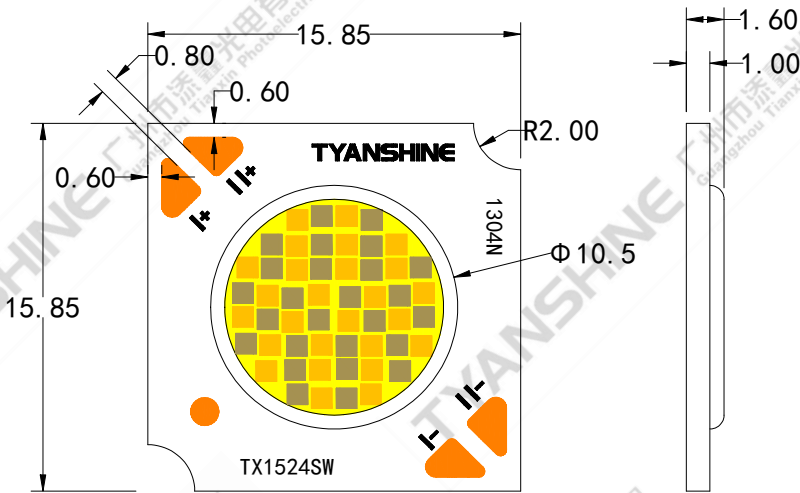
- ◆White
- ◆Warm white

Applications:

- ◆Commercial lighting
- ◆General Lighting

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Package Dimensions:



I : Warm White (S) II : White (W)

Notes:

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

Code Formats:

TX-1524SW11A-3050V39-03H90

TX	—	15	24	SW	11	A	—	3050	V39	—	03	H90
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		700	mA
Reverse Voltage	VR		Not designed for reverse operation	V
Power Dissipation	PD	S	27	W
		W	27	
		S+W	27	
Junction Temperature	Tj	S	150	℃
		W	150	
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=350mA	S	1320	1400	1600	lm
			W	1530	1650	1850	
Forward Voltage	V_f		S	35	37	39	V
			W	35	37	39	
Correlated Colour Temperature	CCT		S	2900	3020	3150	K
			W	4800	5000	5250	
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	—	—	1.45	—	K/W
Color Rendering Index	Ra		S	90	—	—	—
			W	90	—	—	

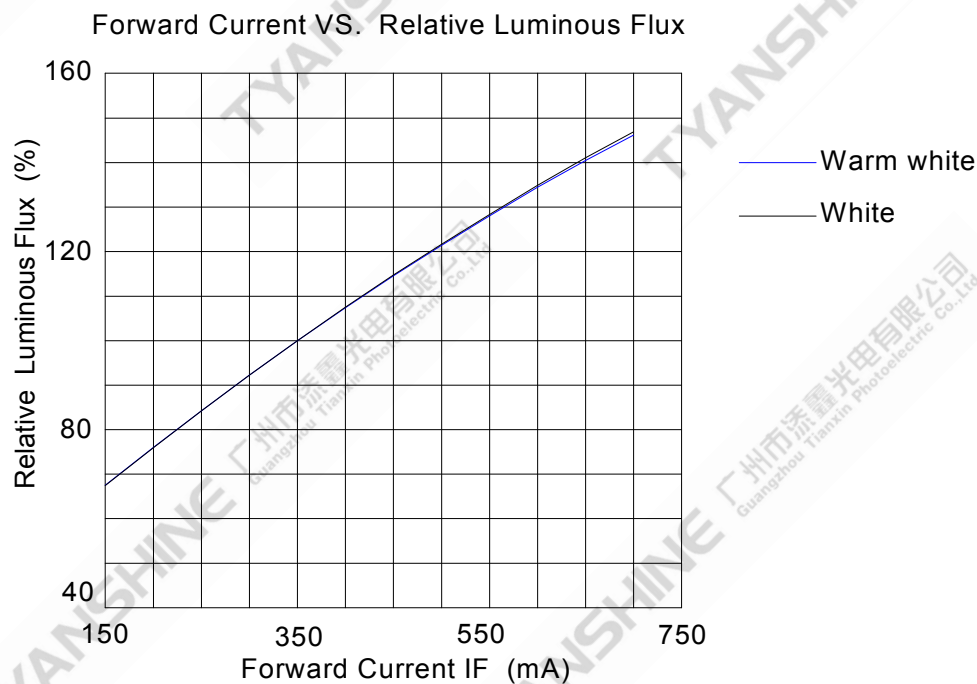
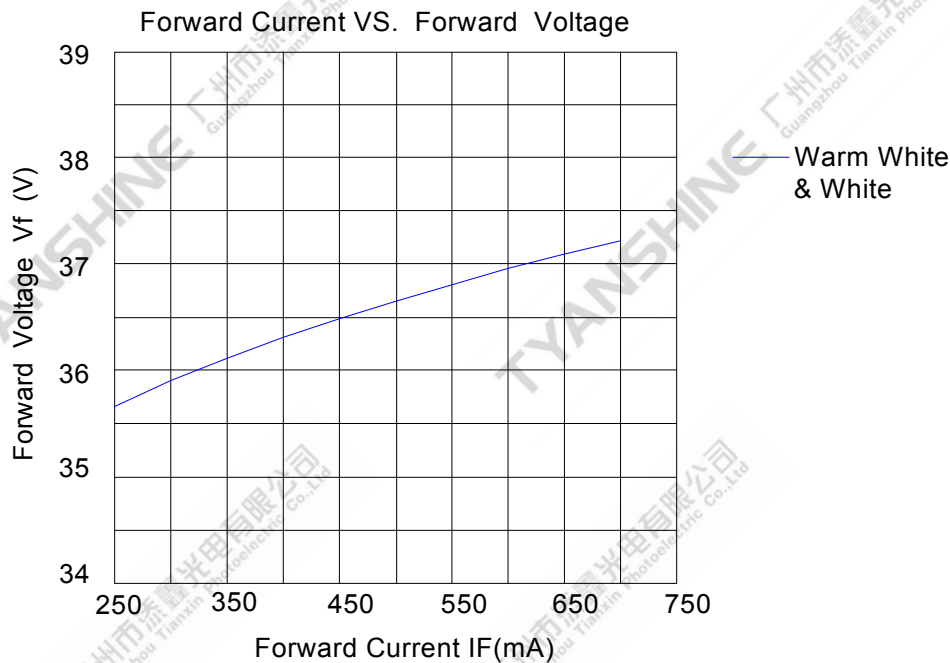
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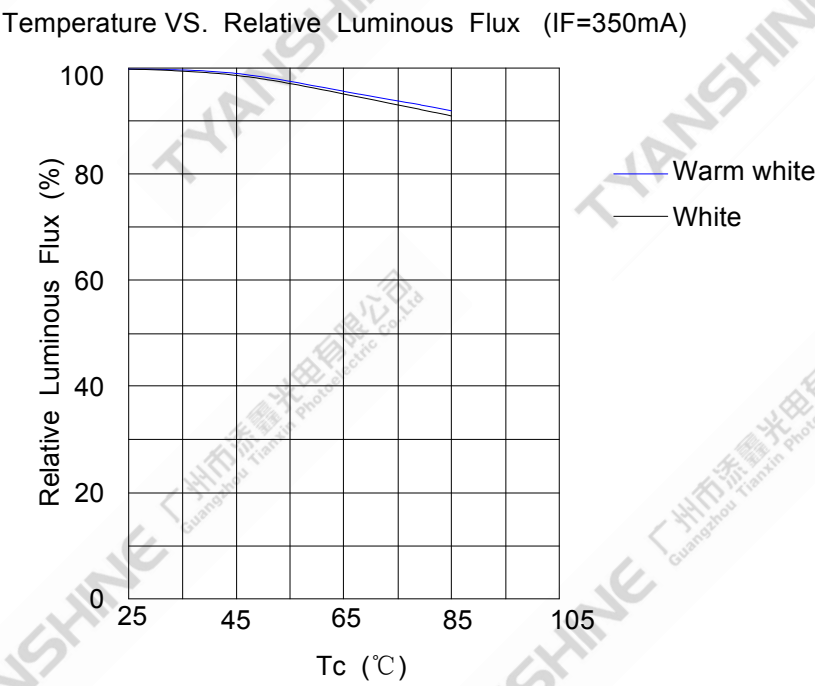
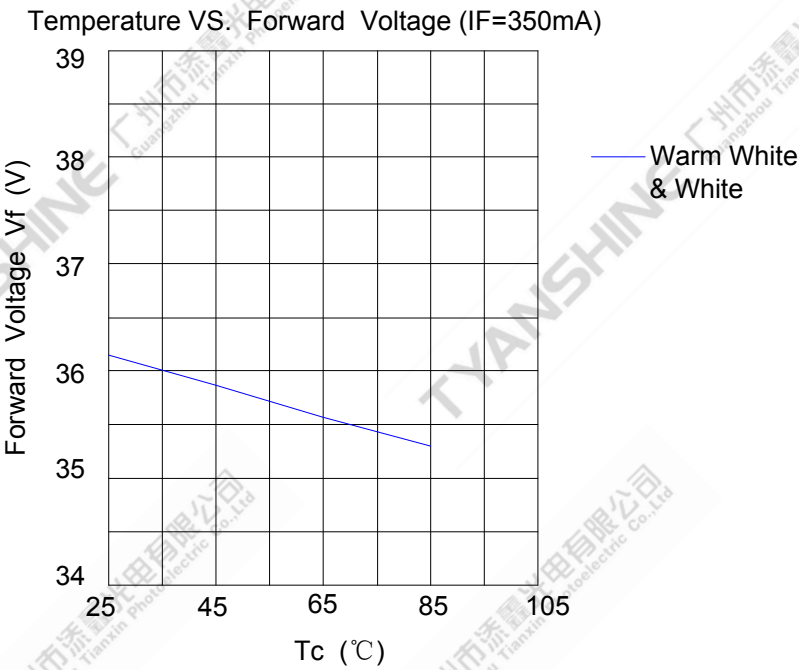
- 1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3.Luminous flux measurement tolerance: $\pm 15\%$.
- 4.Forward voltage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

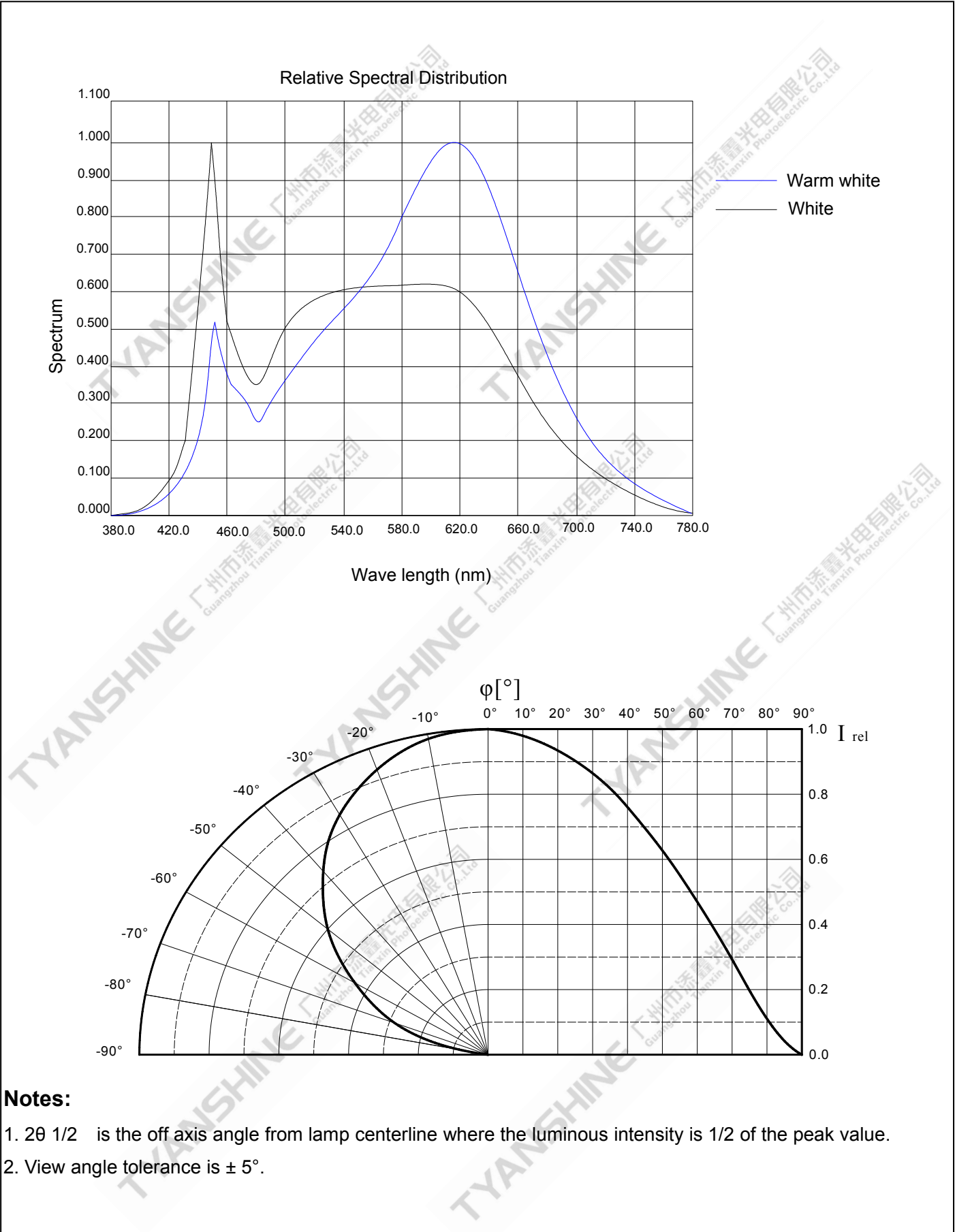
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Typical Electrical/Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

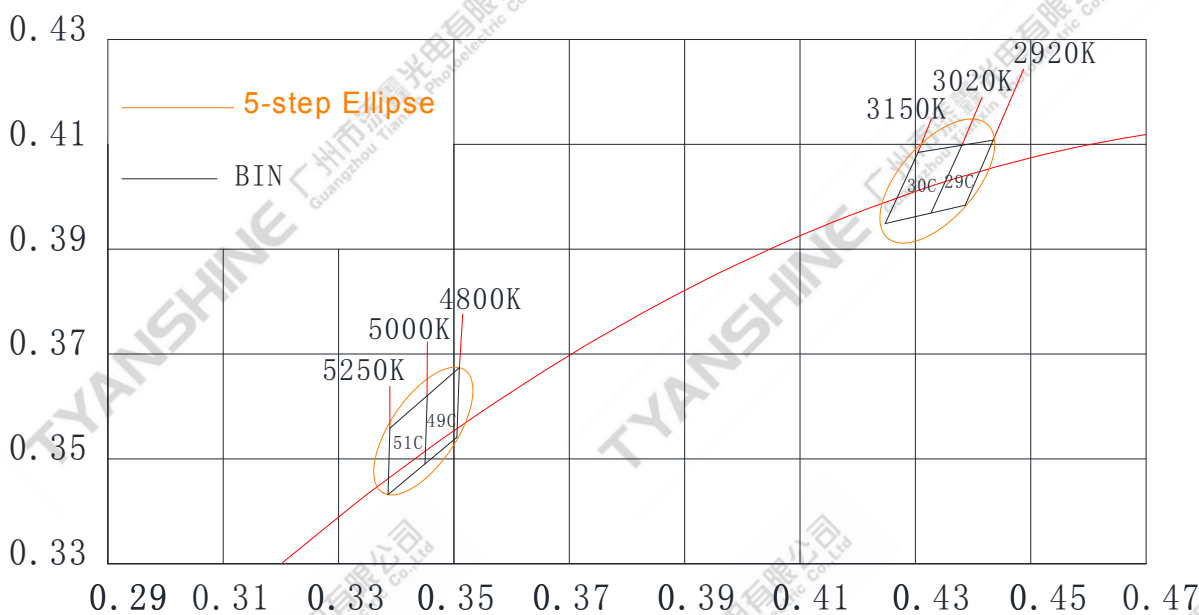






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Chromaticity Coordinates (Condition : IF=350mA , Tc=25℃)



5-step Ellipse					
CCT	Center Point		Major Axis	Minor Axis	Rotation Angle
	x	y	a	b	(°)
3000K	0.4338	0.403	0.0139	0.0068	53.2
5000K	0.3447	0.3553	0.0137	0.0059	59.6

Notes:

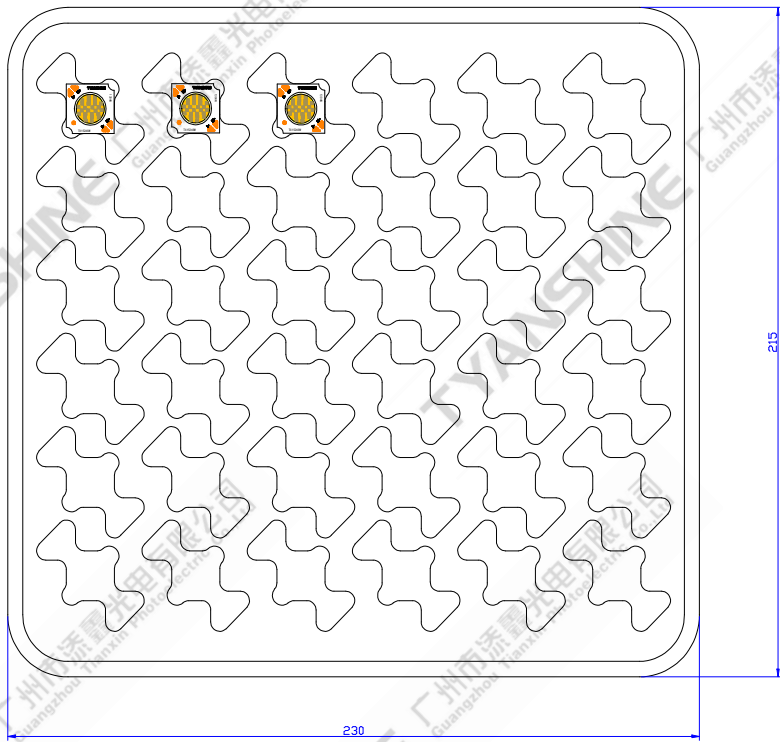
1.chromaticity (x, y) measurements tolerance: ±0.005.

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			
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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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