

TX-1524SW11F13-08H902740

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:

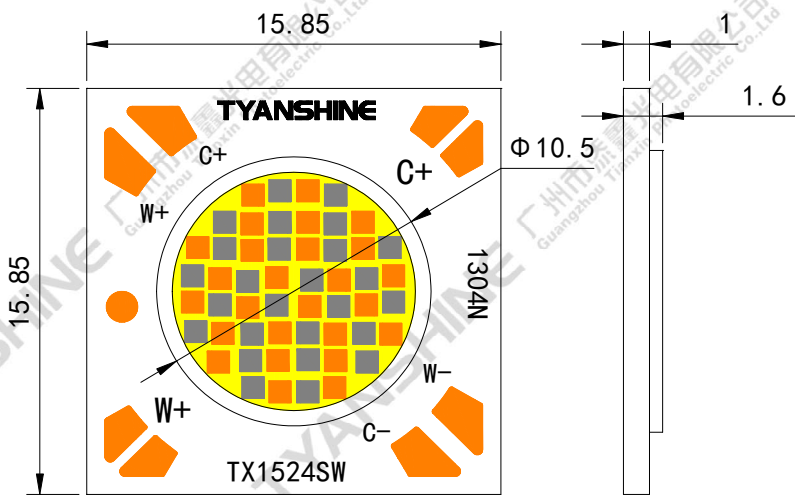
- ◆White
- ◆Warm white

Applications:

- ◆Commercial lighting
- ◆General Lighting

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Package Dimensions:

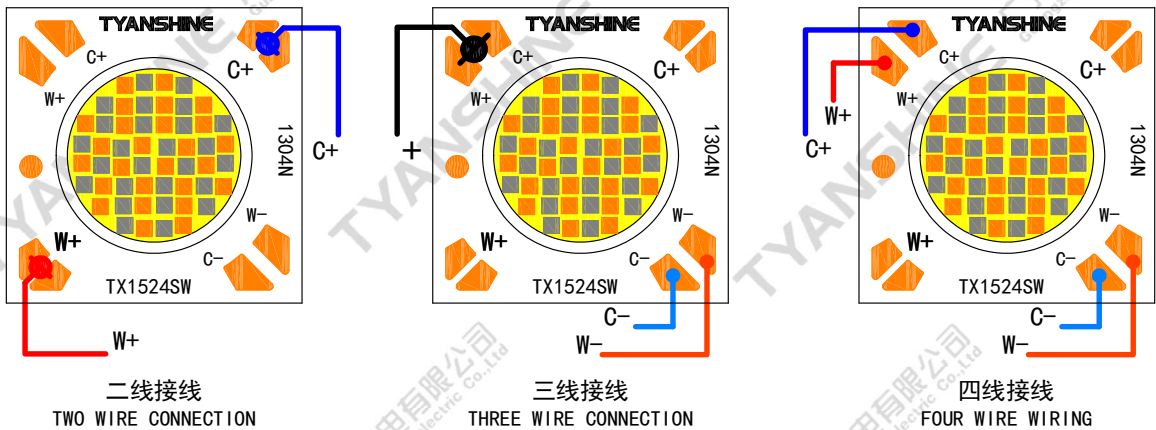


W: Warm White C:White

Notes:

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

Connections:



Code Formats:

TX-1524SW11F13-08H902740

TX	—	15	24	SW	11	F	13	—	08	H90	2740
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		700	mA
Reverse Voltage	VR		Not designed for reverse operation	V
Power Dissipation	PD	W	27	W
		C	27	
		W+C	27	
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=500mA	W	1610	1800	2100	lm	
			C	1840	2100	2400		
Forward Voltage	V_f		W	35	37	39	V	
			C	35	37	39		
Correlated Colour Temperature	CCT		W	2680	—	2780	K	
			C	3920	—	4120		
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=500mA	—	—	1.45	—	K/W
Color Rendering Index	R_a			W	90	—	—	—
				C	90	—	—	

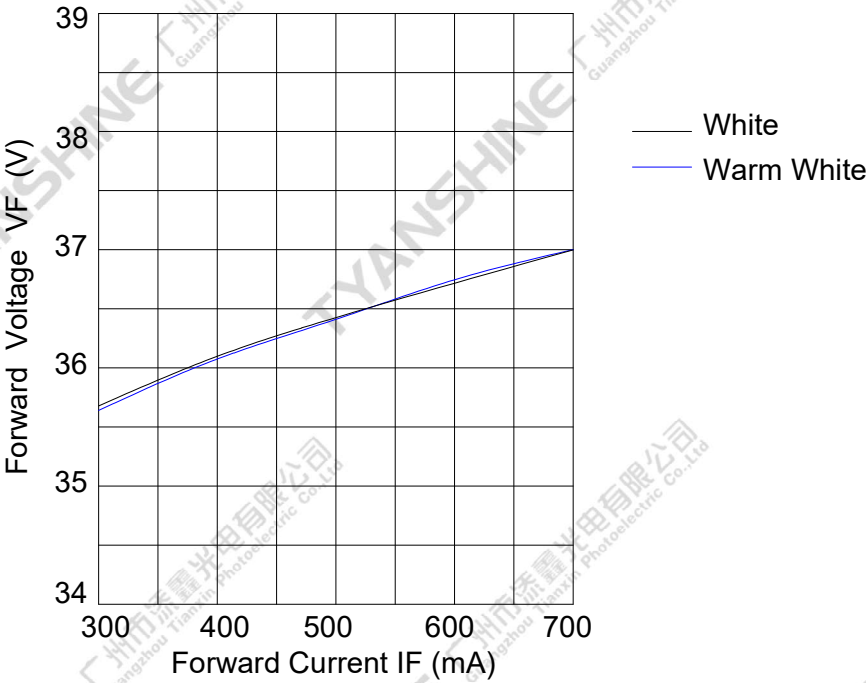
Notes:

- 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:±15%.
- 4.Forward voltage measurement tolerance:±3%.

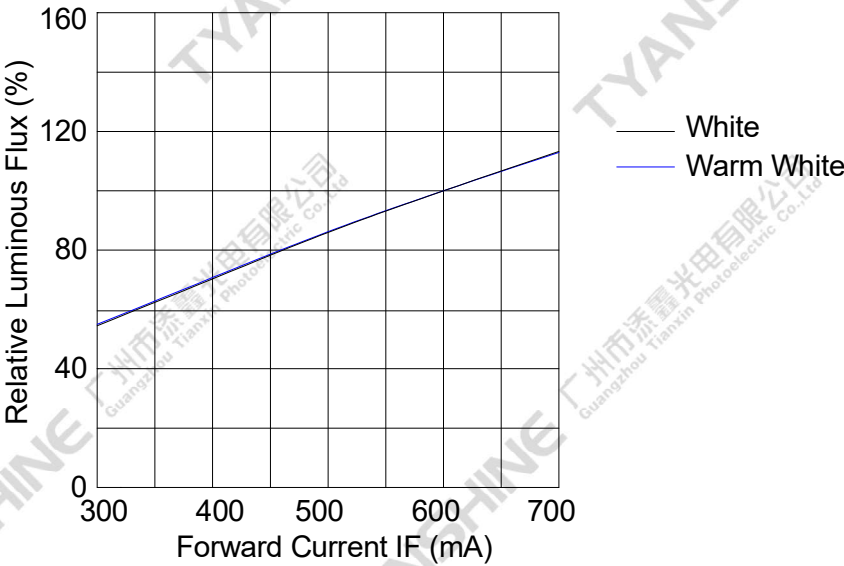
Typical Electrical/Optical Characteristics Curves

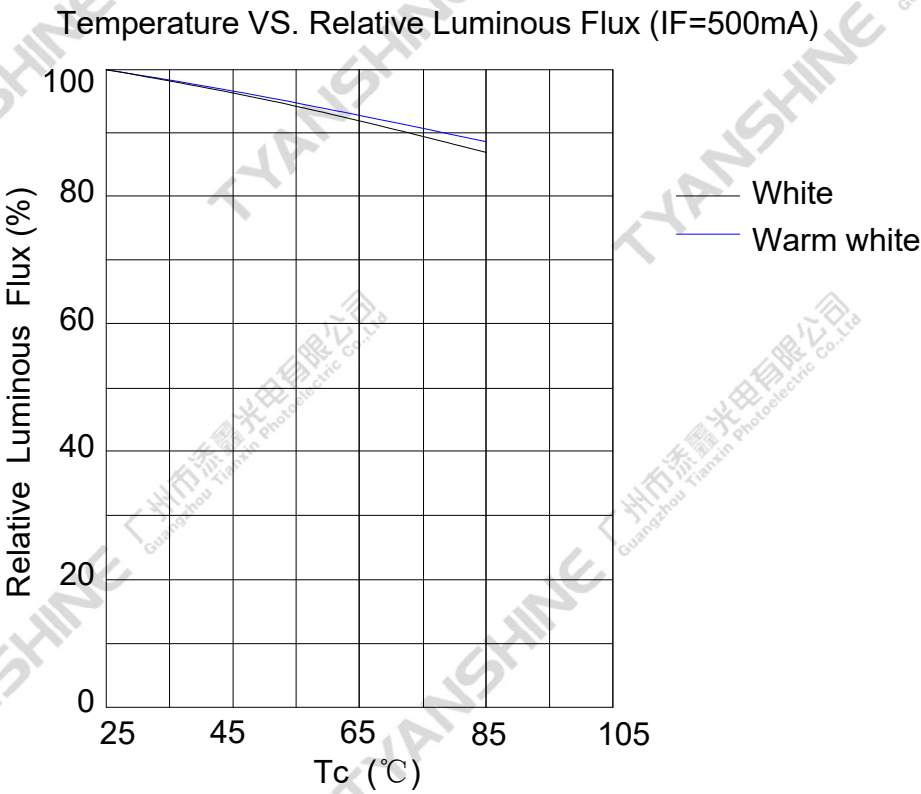
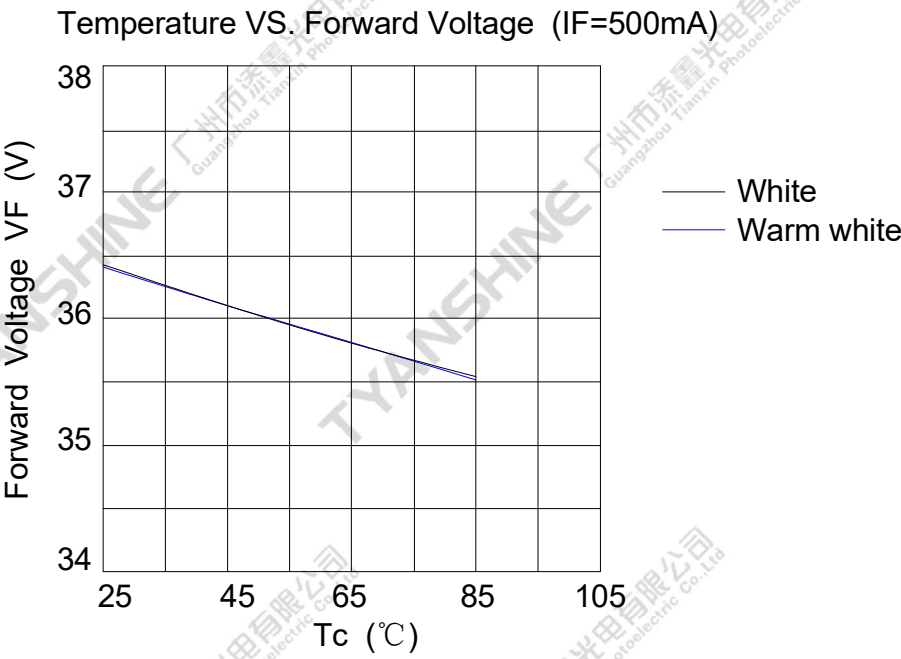
(25℃ Ambient Temperature Unless Otherwise Noted)

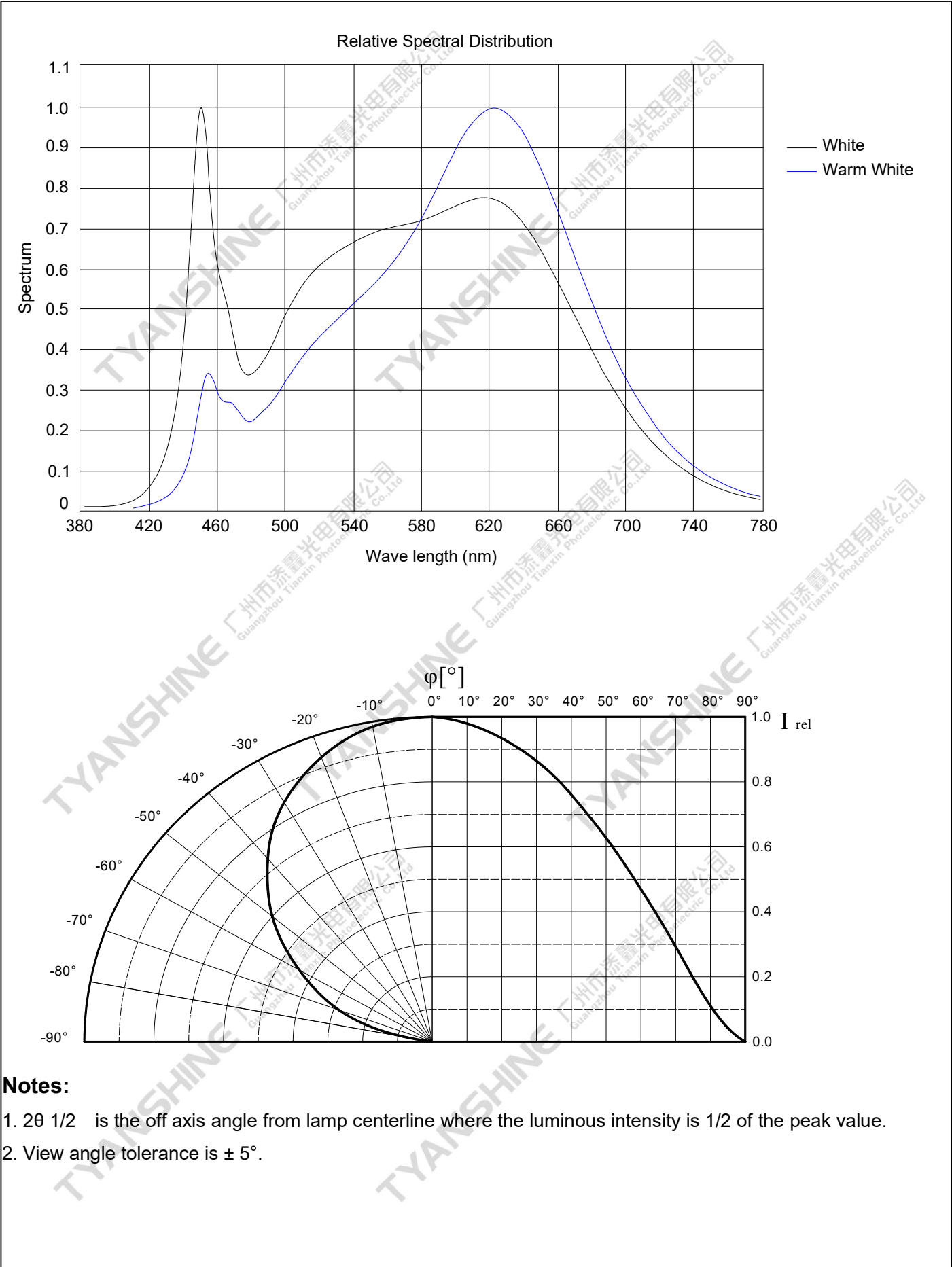
Forward Current VS. Forward Voltage



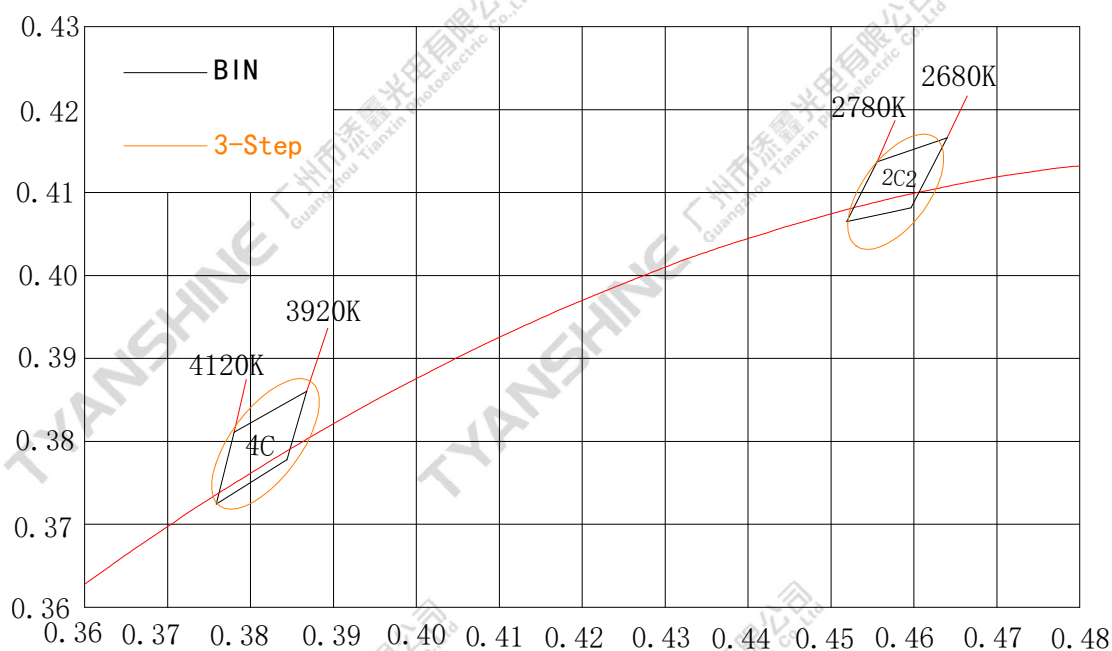
Forward Current VS. Relative Luminous Flux







Chromaticity Coordinates (Condition: IF=500mA, Tc=25℃)



3-step					
CCT	中心坐标点		长轴	短轴	旋转角度 (°)
	x	y	a	b	
2700K	0.4578	0.4101	0.0081	0.00403	54
4000K	0.3818	0.3797	0.0093	0.0042	53.4

Notes:

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

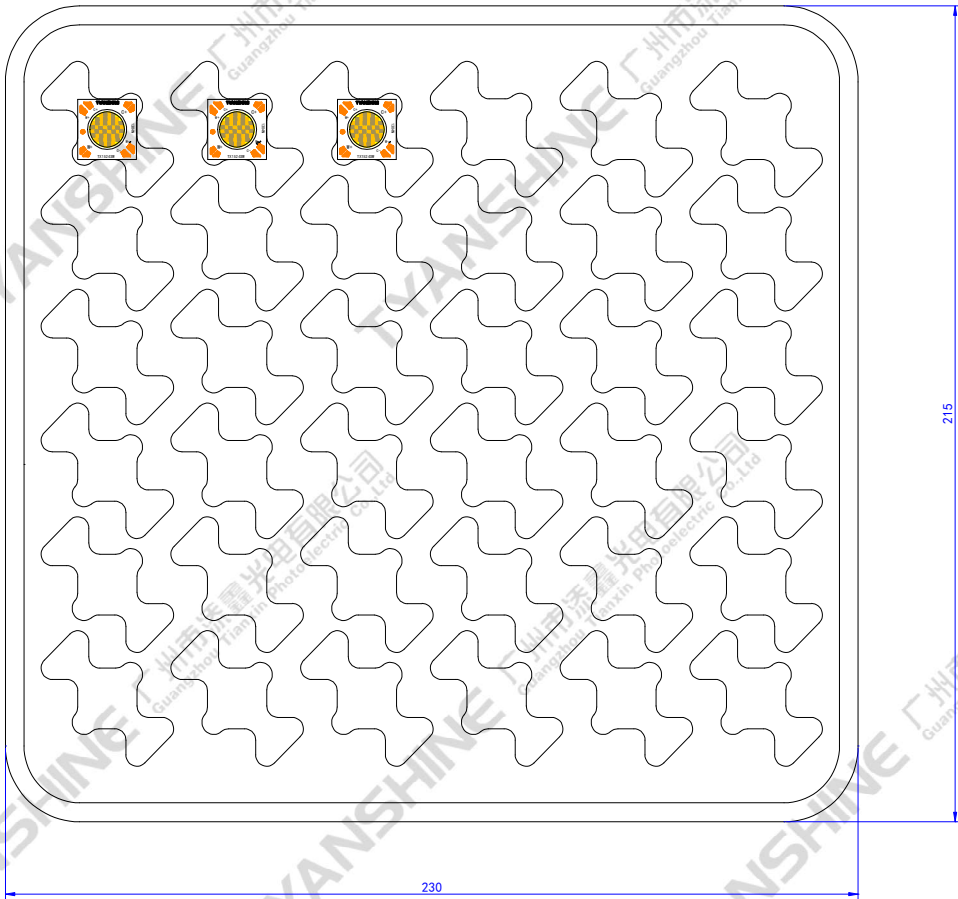
Reliability Test

Test Item	Test Condition
Continuous Operation Test	IF=500mA 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

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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.