

TX-1518SW11A-3050V39-10H90

PRODUCT SPECIFICATION

Features:

- ◆Excellent transiting heat from LED chip operating under 500mA.
- ◆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:

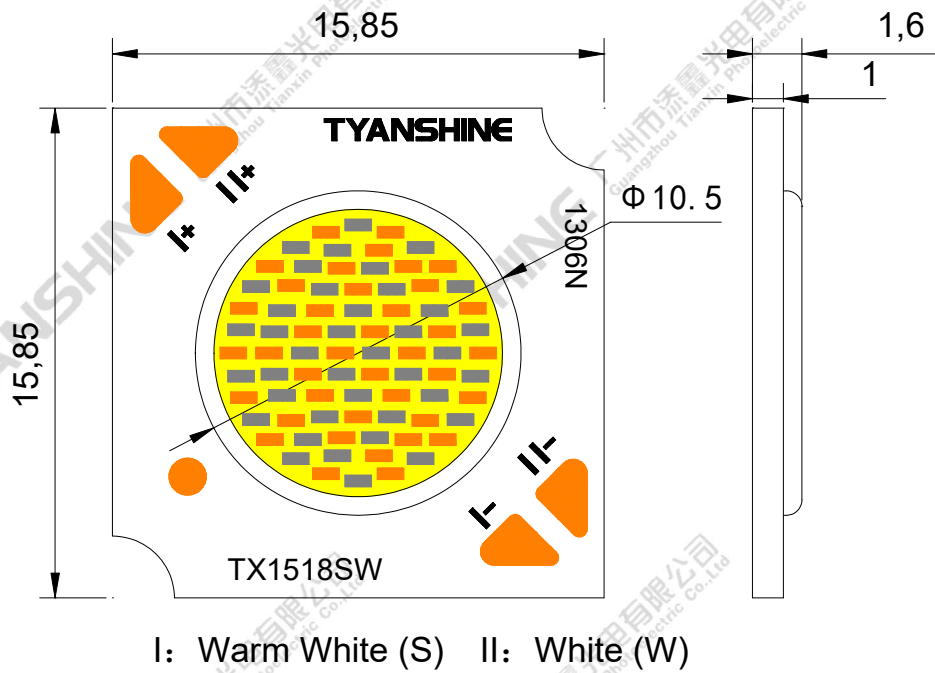
- ◆White
- ◆Warm white

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-1518SW11A-3050V39-10H90

TX	—	15	18	SW	11	A	—	3050	V39	—	10	H90
TYANSHINE	—	series	watt type	performance	LES	texture	—	CCT	VOL TS	—	BOM	Ra
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Absolute Maximum Ratings

Parameter	Symbol	Ratings	Unit
Forward Current	IF	500	mA
Reverse Voltage	VR	Not designed for reverse operation	V
Power Dissipation	PD	S	W
		W	
		S+W	
Junction Temperature	Tj	S	℃
		W	
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)

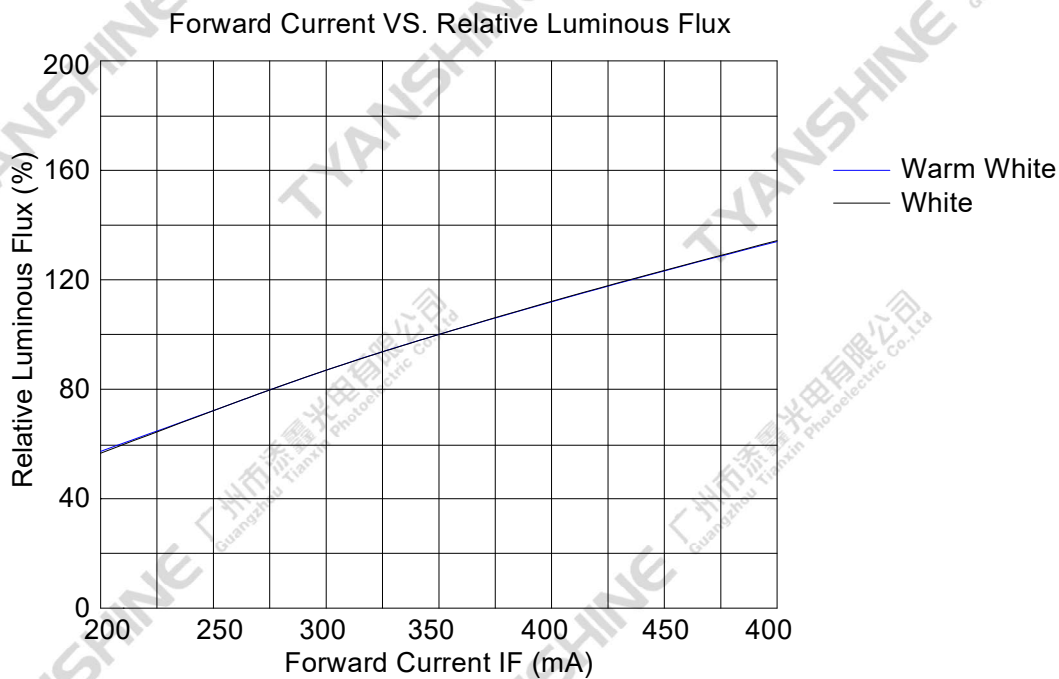
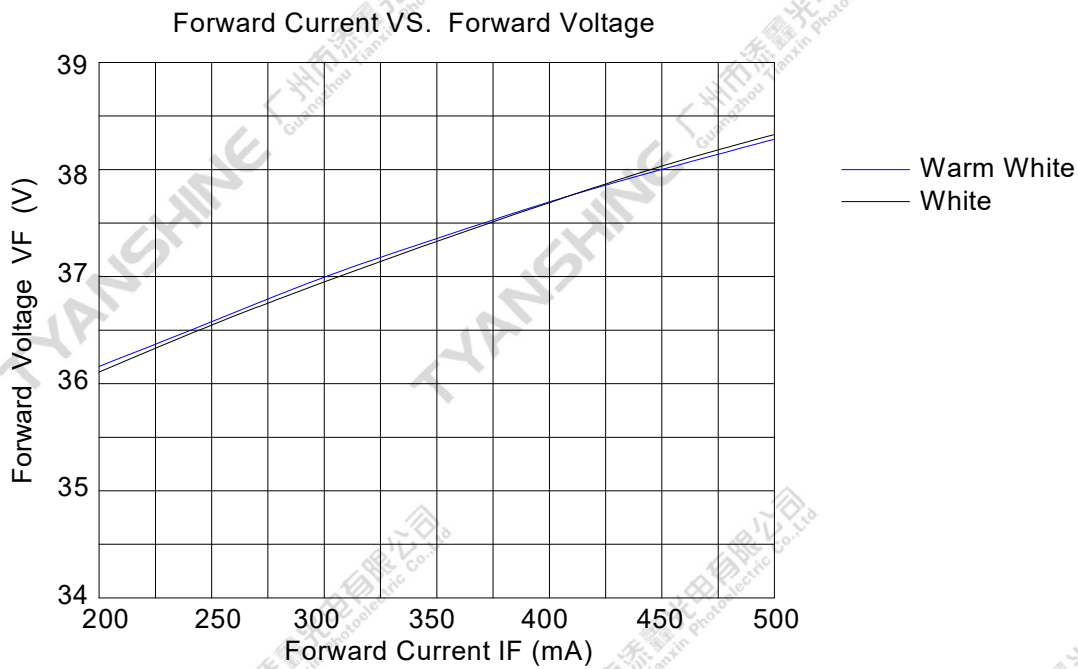
Parameter	Symbol	Condition	Emitting color	Min.	Typ.	Max.	Units
Luminous Flux	φ_v	If=350mA	S	1020	1200	1350	lm
			W	1200	1400	1550	
Forward Voltage	V_f		S	35	37	39	V
			W	35	37	39	
Correlated Colour Temperature	CCT		S	2920	3020	3150	K
			W	4800	5000	5250	
Viewing Angle at 50 % IV	$2\theta_{1/2}$		S	—	115	—	Deg
			W	—	115	—	
Reverse Current	I_R		—	—	—	—	μA
Thermal Resistance Junction to Case	$R\theta_{J-C}$	If=350mA	—	—	1.9	—	K/W
Color Rendering Index	Ra	If=350mA	S	90	—	—	—
			W	90	—	—	

Notes:

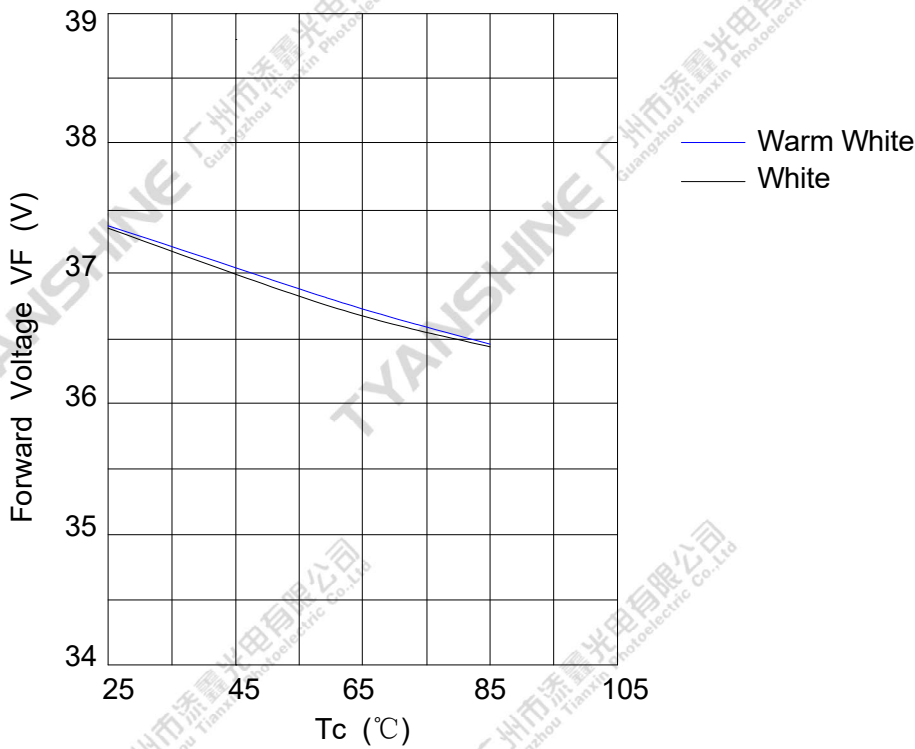
- 1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- 2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3.Luminous flux measurement tolerance:±15%.
- 4.Forward voltage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

Typical Electrical/Optical Characteristics Curves

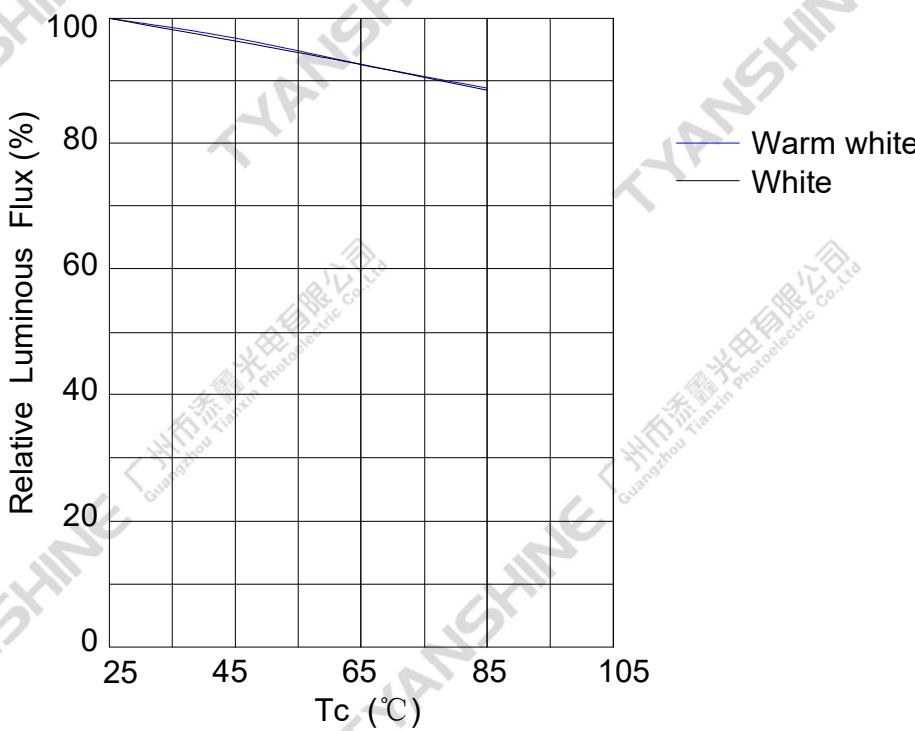
(25°C Ambient Temperature Unless Otherwise Noted)

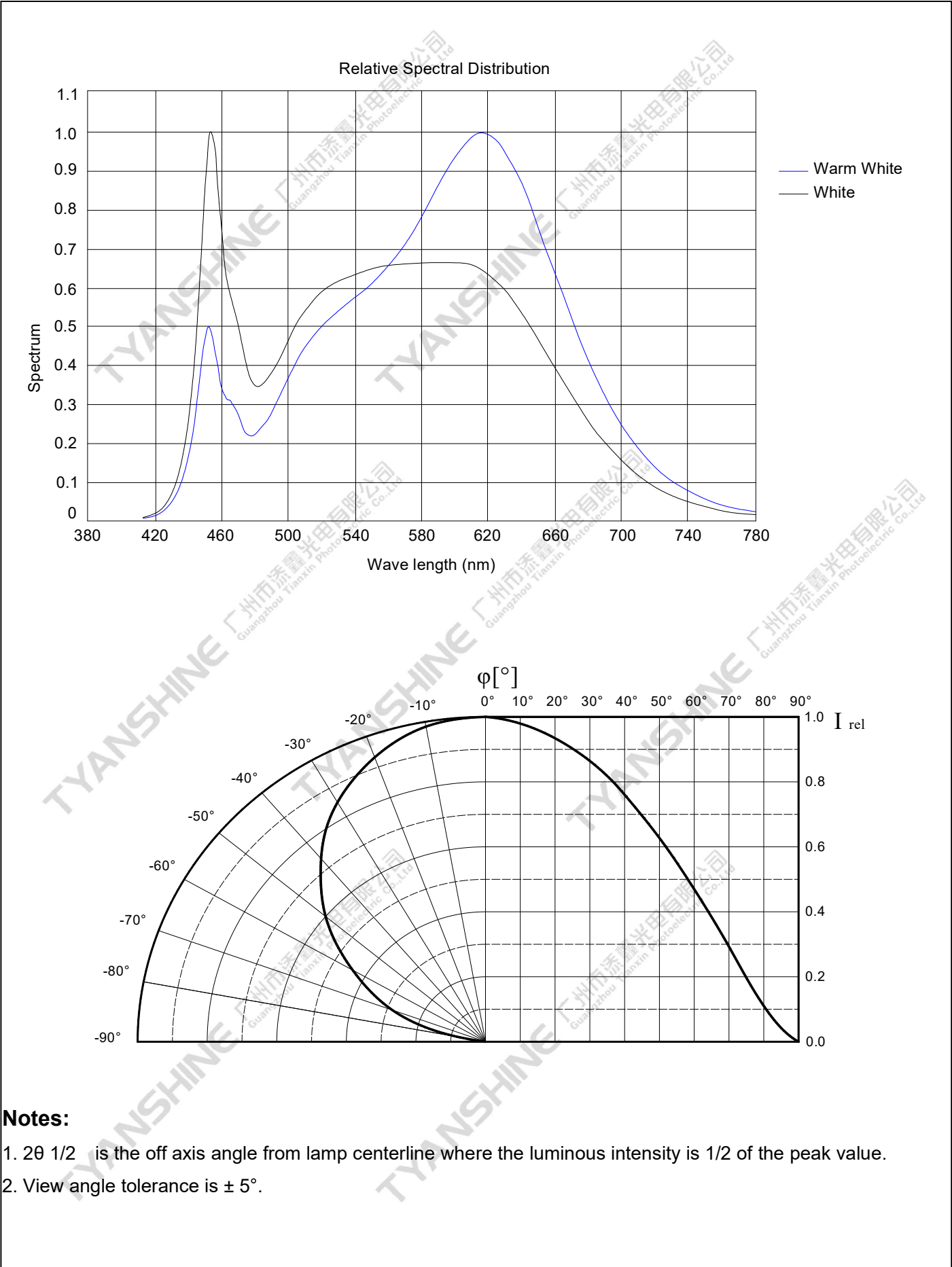


Temperature VS. Forward Voltage (IF=350mA)

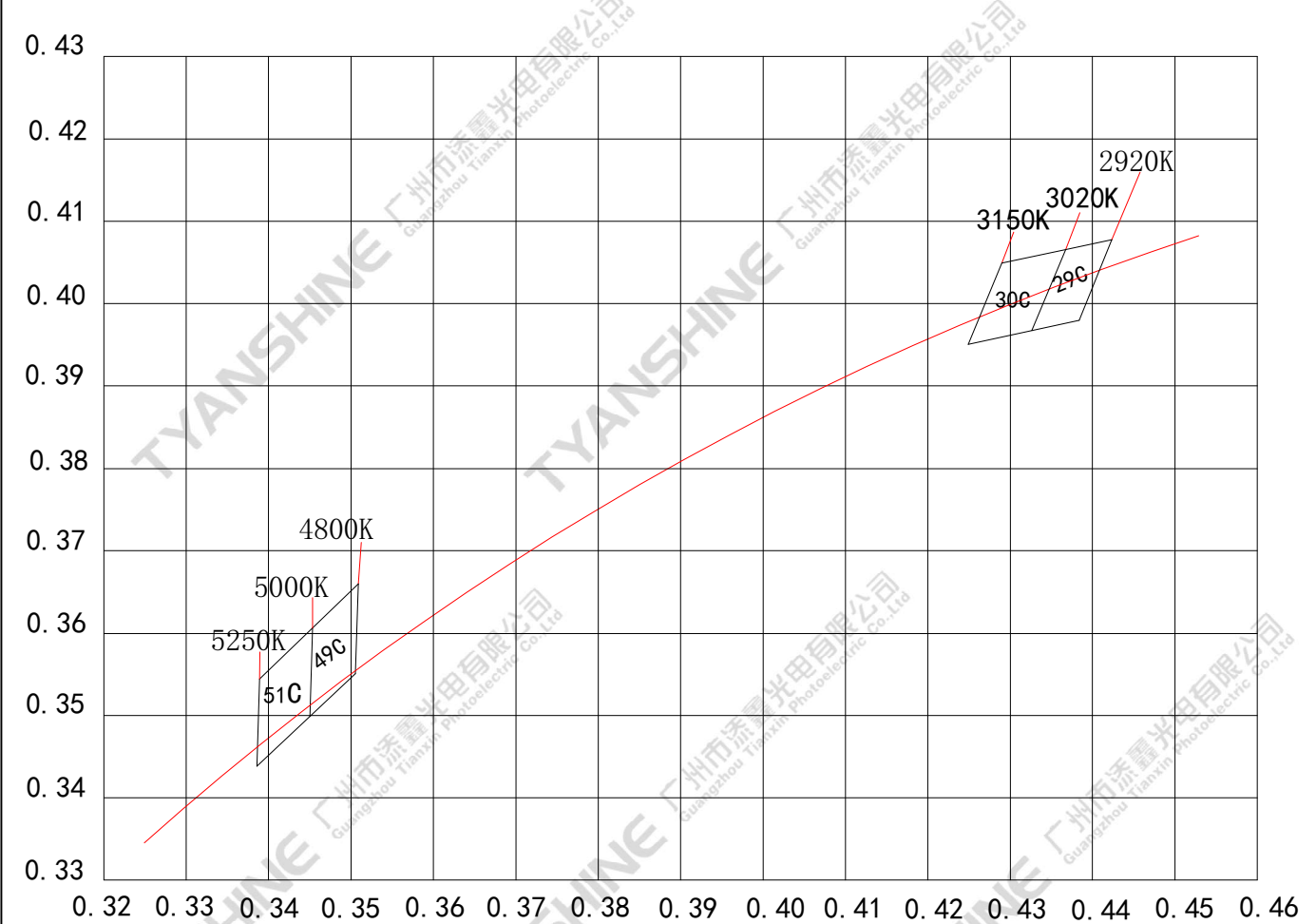


Temperature VS. Relative Luminous Flux (IF=350mA)





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



Notes:

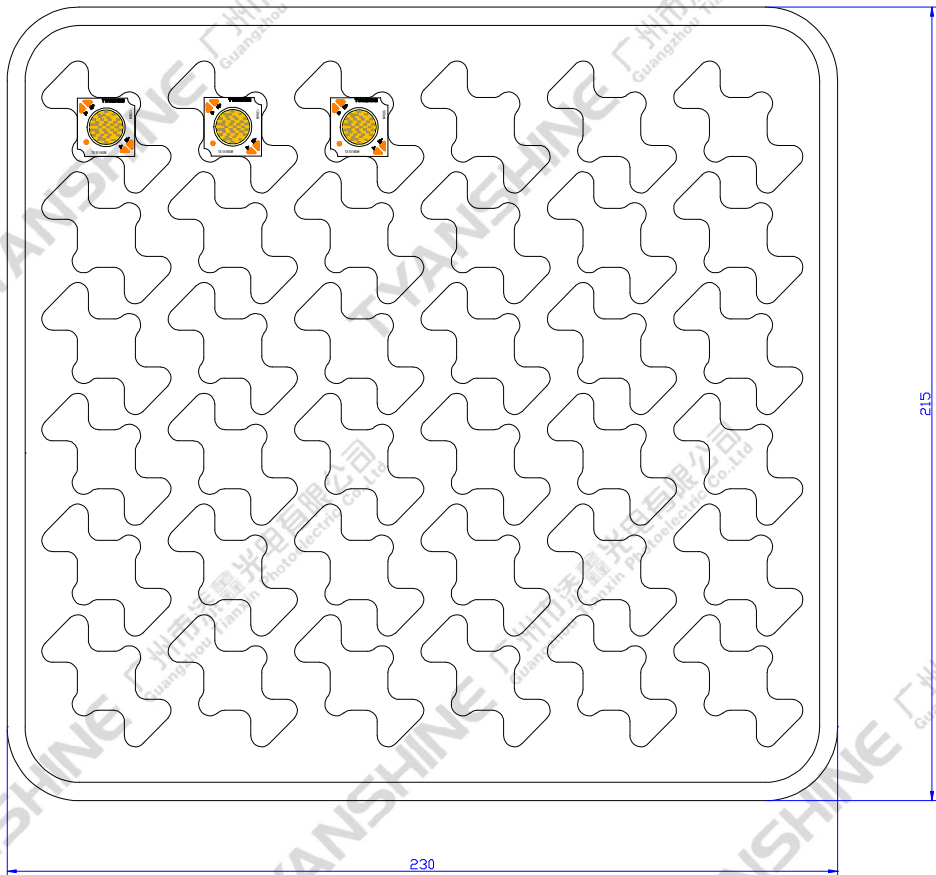
1. chromaticity (x, y) measurements tolerance: ± 0.005 .

Reliability Test

Test Item	Test Condition
Continuous Operation Test	IF=350mA Ta=25℃×1000hrs
Low Temperature Storage Test	-30℃×1000hrs
High Temperature Storage Test	100℃×1000hrs
Moisture-proof Test	85℃, 85%RH for 500 hours
Thermal Shock Test	-40℃×15minutes-125℃×15minutes,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.