

TX-1512SW11A-2860V36-10AH90

PRODUCT SPECIFICATION

Features:

- ◆Excellent transiting heat from LED chip operating under 400mA.
- ◆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:

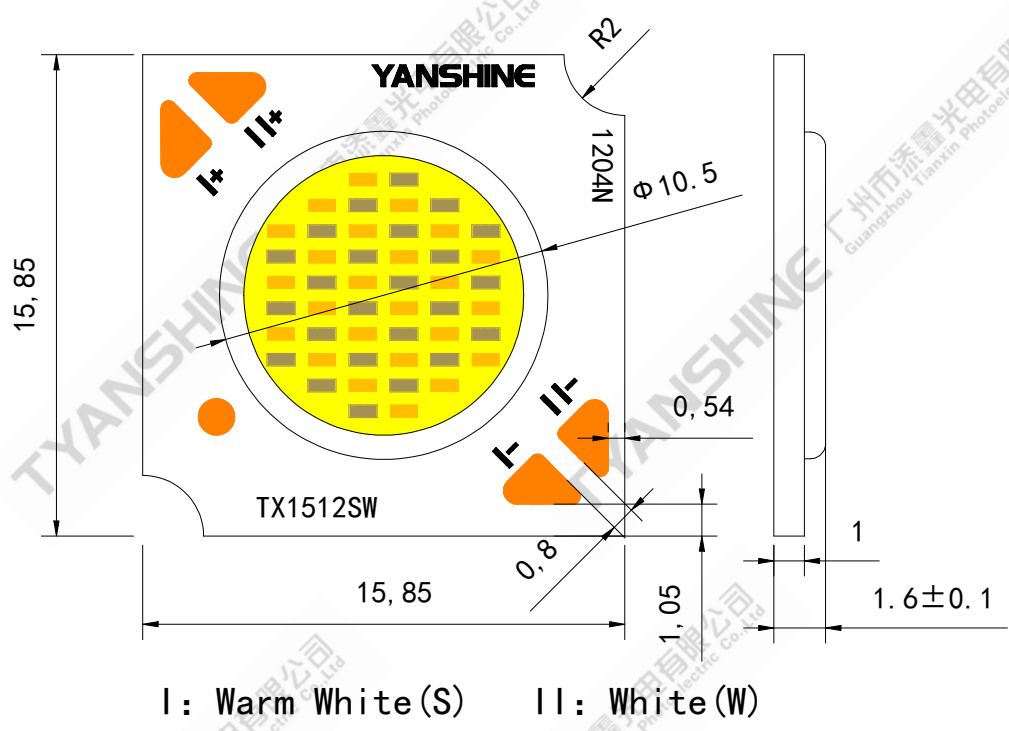
- ◆White
- ◆Warm white

Applications:

- ◆Commercial lighting
- ◆General Lighting

Part No.	TX-1512SW11A-2860V36-10AH90	Spec No.	WKF-DA0057	Page	1 of 9
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Package Dimensions:



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

Code Formats:

TX-1512SW11A-2860V36-10AH90

TX	—	15	12	SW	11	A	—	2860	V36	—	10A	H90
TYANSHINE	—	series	watt typ	performance	LES	texture	—	CCT	VOLTs	—	BOM	Ra
Part No.	TX-1512SW11A-2860V36-10AH90					Spec No.	WKF-DA0057		Page	2 of 9		

Absolute Maximum Ratings

Parameter	Symbol		Ratings	Unit
Forward Current	IF		400	mA
Reverse Voltage	VR		Not designed for reverse operation	V
Power Dissipation	PD	S	15	W
		W	15	
		S+W	15	
Junction Temperature	Tj	S	135	℃
		W	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.

Electrical Optical Characteristics (Tc=25°C)

Parameter	Symbol	Condition	Emitting color	Min.	Typ.	Max.	Units
Luminous Flux	Φ_v	If=350mA	S	930	1050	1200	lm
			W	1200	1350	1550	
Forward Voltage	V_f		S	34	36	38	V
			W	34	36	38	
Correlated Colour Temperature	CCT		S	2620	2700	2780	K
			W	5750	6000	6700	
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	—	1.04	—	K/W
			W	—	1.04	—	
Temperature Coefficient of Voltage	$V\Delta F/T$		S	—	-15	—	mV/°C
			W	—	-15	—	
Color Rendering Index	Ra		S	90	—	—	—
			W	90	—	—	

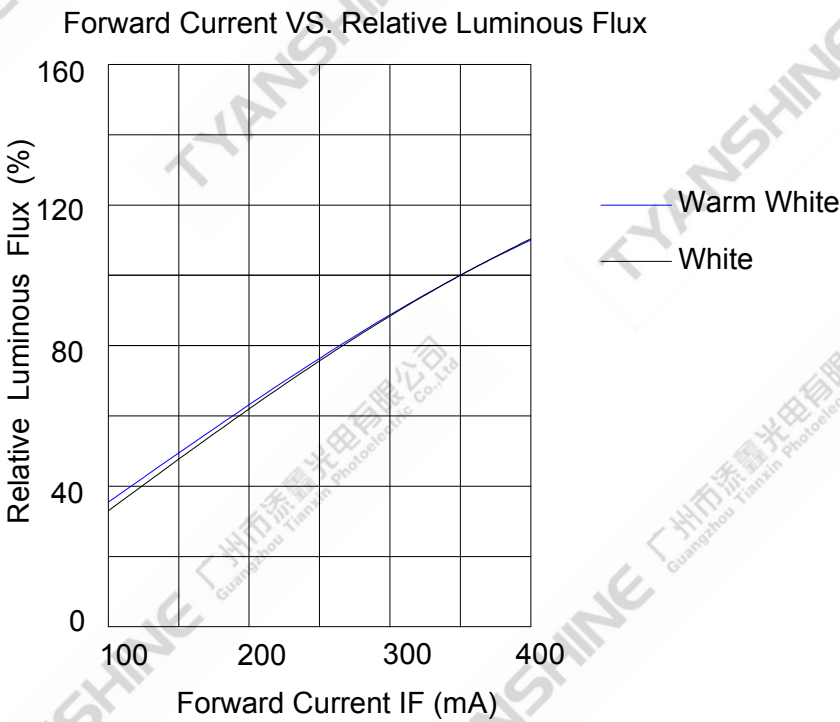
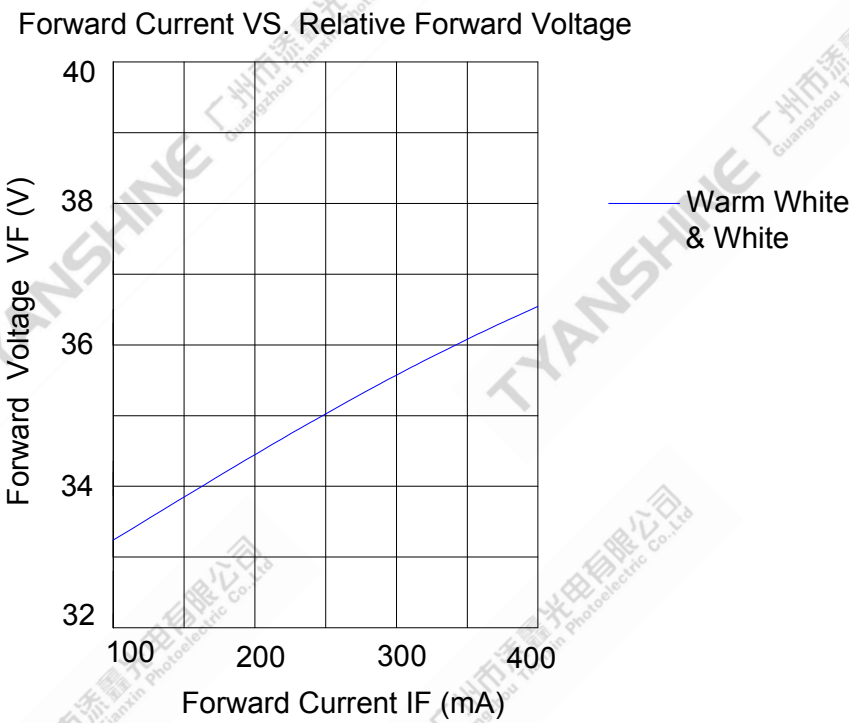
Notes:

- 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: $\pm 15\%$.
- 4.Forward voltage measurement tolerance: $\pm 3\%$.
- 5.Ra measurement tolerance: ± 2 .

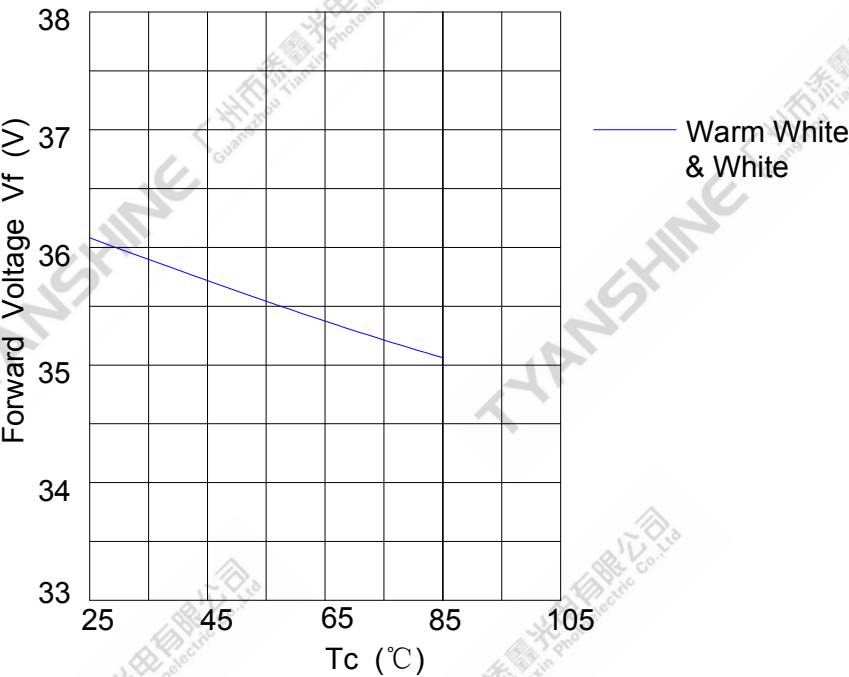
Part No.	TX-1512SW11A-2860V36-10AH90	Spec No.	WKF-DA0057	Page	4 of 9
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Typical Electrical/Optical Characteristics Curves

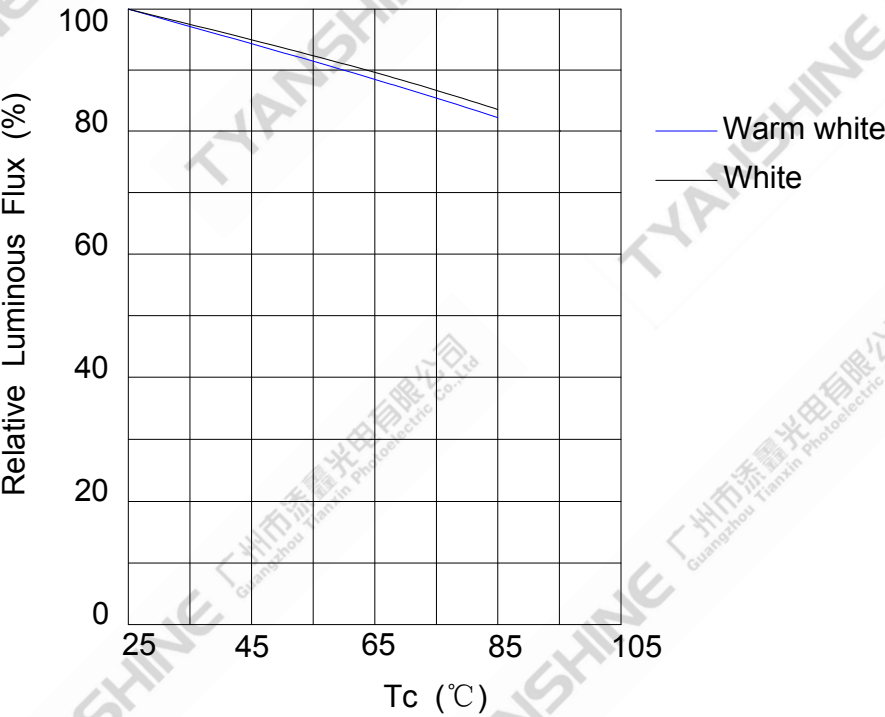
(25℃ Ambient Temperature Unless Otherwise Noted)

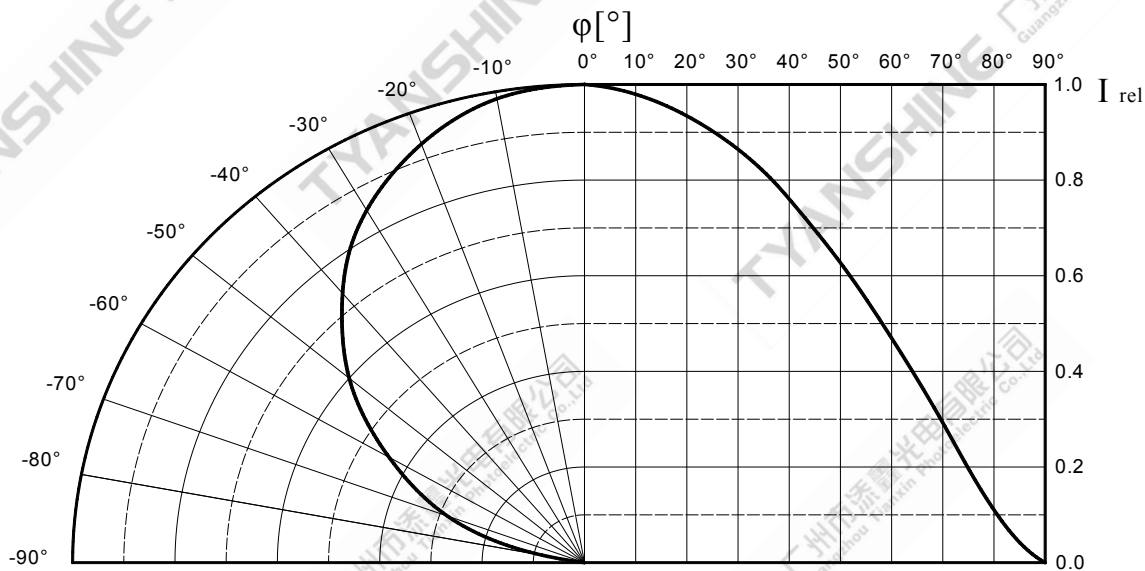
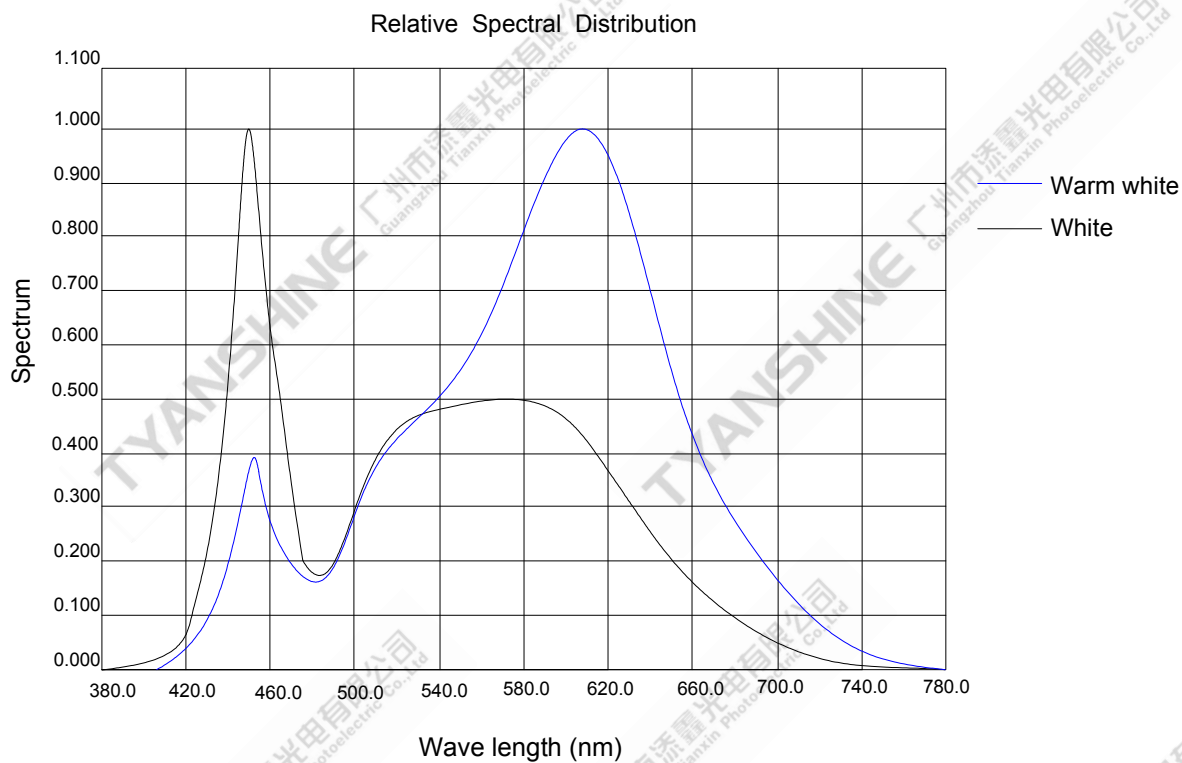


Temperature VS. Relative Luminous FLux (IF=350mA)



Temperature VS. Forward Voltage (IF=350mA)

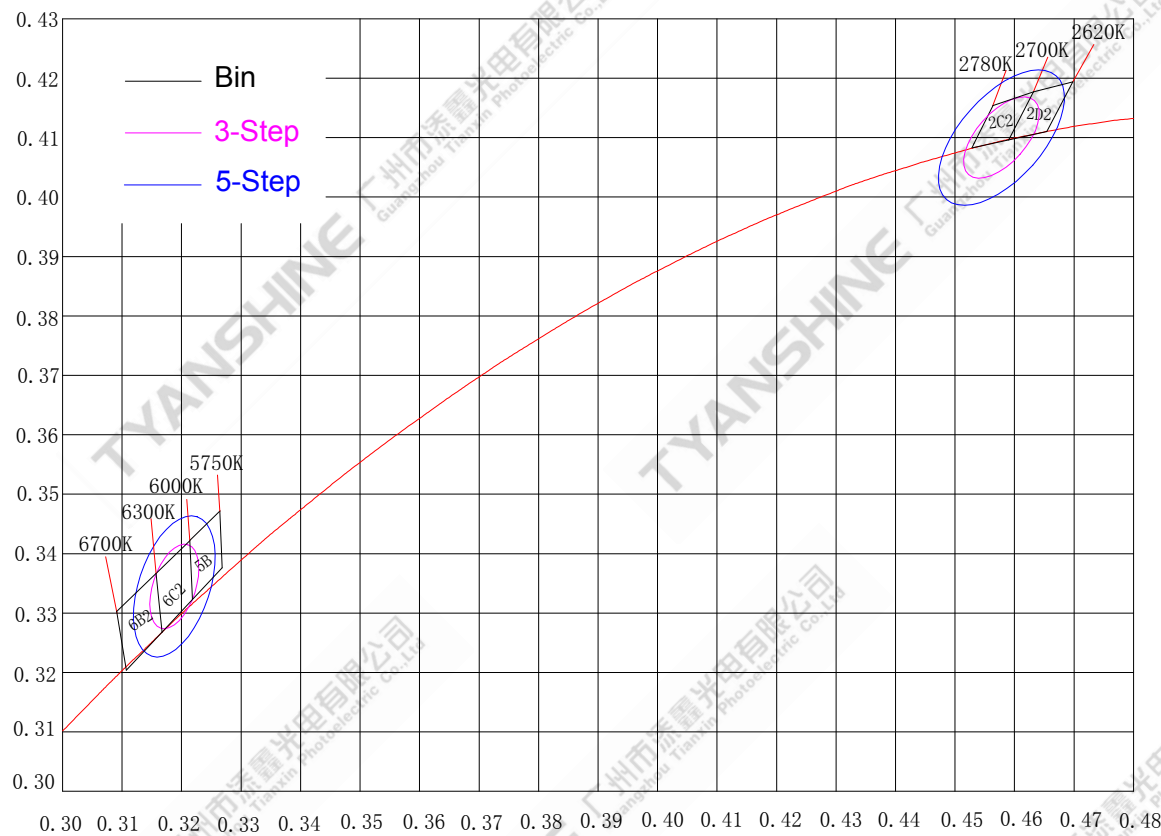




Notes:

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 $\pm 5^\circ$.

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



Notes:

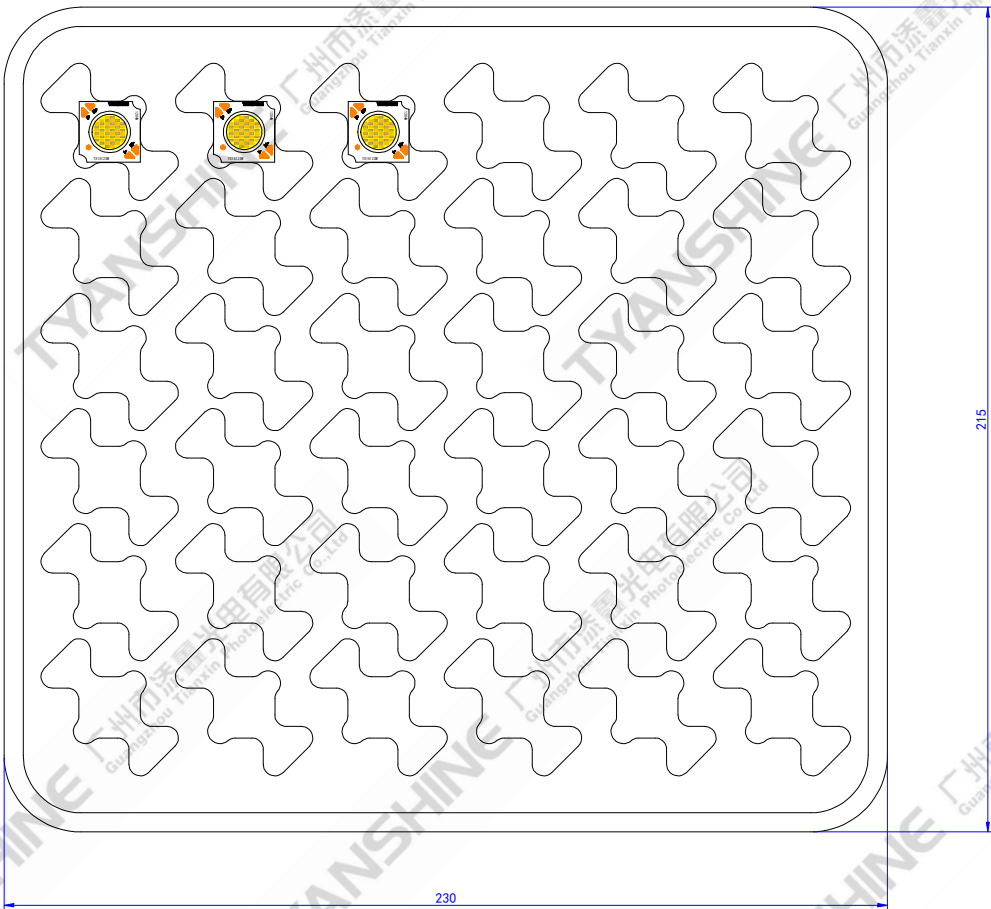
- 1. chromaticity (x, y) measurements tolerance: ±0.005.

Reliability Test

Test Item		Test Condition			
Continuous Operation Test		IF=350mA Ta=25℃ ×1000hrs			
Low Temperature Storage Test		-30℃ × 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			
Part No.	TX-1512SW11A-2860V36-10AH90	Spec No.	WKF-DA0057	Page	8 of 9

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.

Part No.	TX-1512SW11A-2860V36-10AH90	Spec No.	WKF-DA0057	Page	9 of 9
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