

TX-1512SW11A-2860V36-10H90

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:

GaNN

Emitting Color:

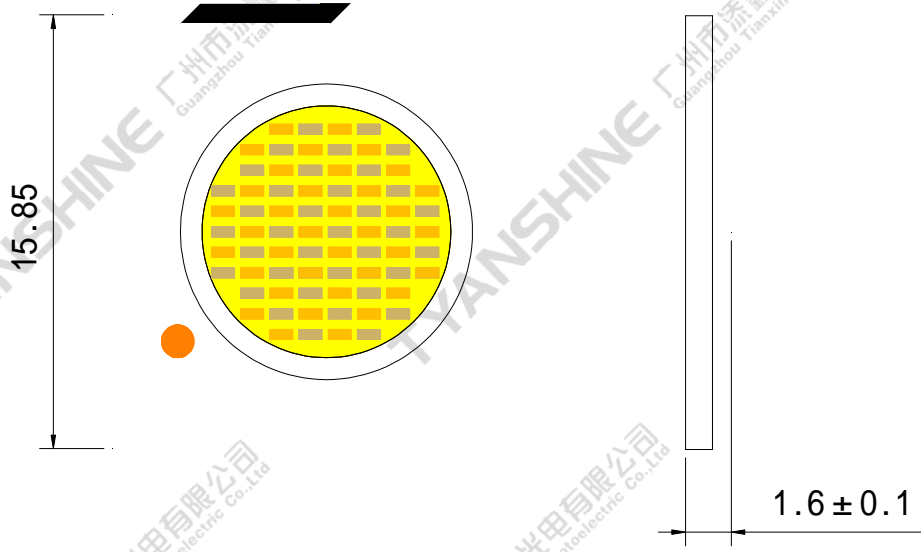
White
Warm white

Applications:

Commercial lighting
General Lighting

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Package Dimensions:



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Absolute Maximum Ratings

Parameter	Symbol	Ratings	Unit
Forward Current	IF	500	mA
Reverse Voltage	V _R	Not designed for reverse operation	V
Power Dissipation	P _D	S	18
		W	18
		S+W	18
Junction Temperature	T _j	S	135
		W	135
Case Temperature (C)	T _c	85	
Electrostatic Discharge Threshold (ESD)	ESD	2000	V
Storage Temperature	T _{stg}	-30~+100	
Operation Temperature	T _{opr}	-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	—	1070	—	lm
			W	—	1300	—	
Forward Voltage	V_f		S	33	35	37	V
			W	33	35	37	
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	$R\theta_{J-c}$		S	—	1.9	—	K/W
		W	—	1.9	—		
Temperature Coefficient of Voltage	V F/T	S	—	-13.6	—	mV/	
		W	—	-13.6	—		
Color Rendering Index	Ra	S	—	90	—	—	
		W	—	90	—		

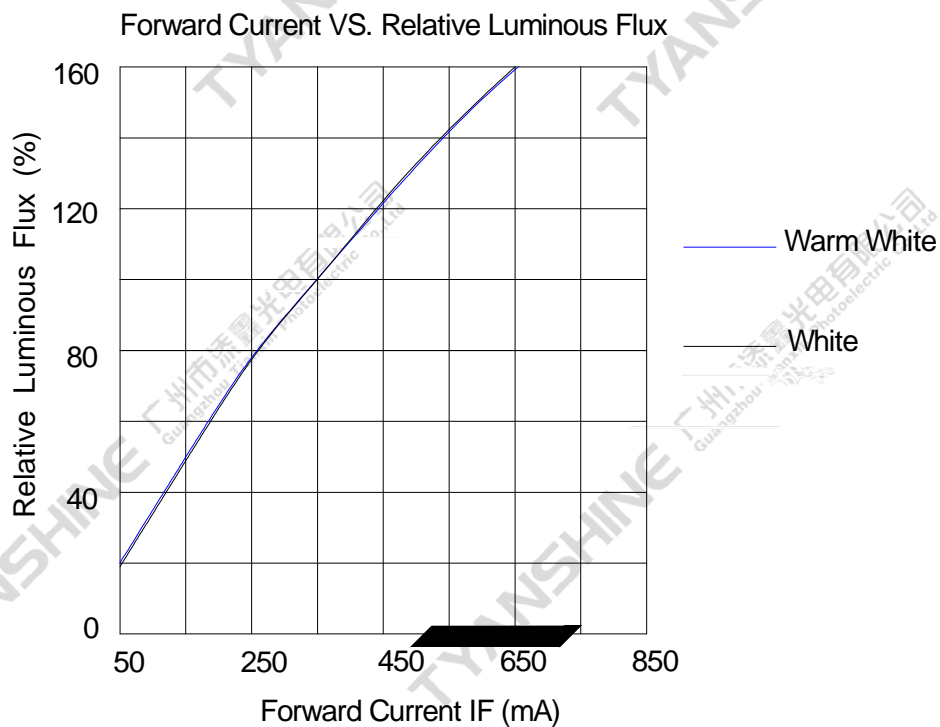
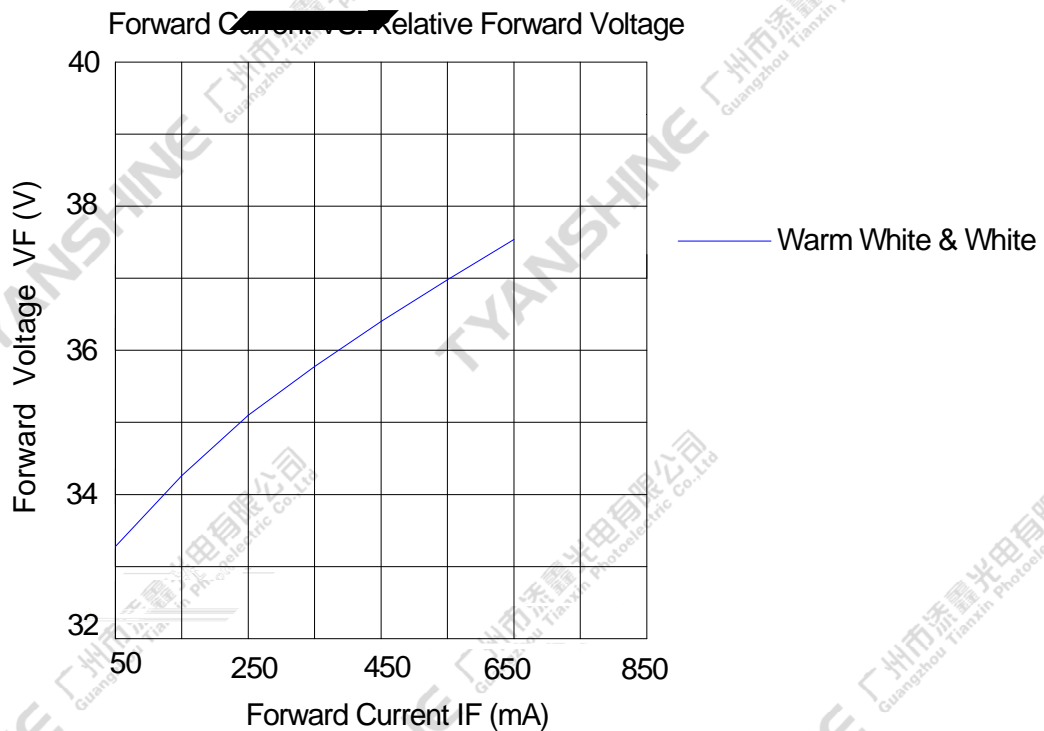
Notes:

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

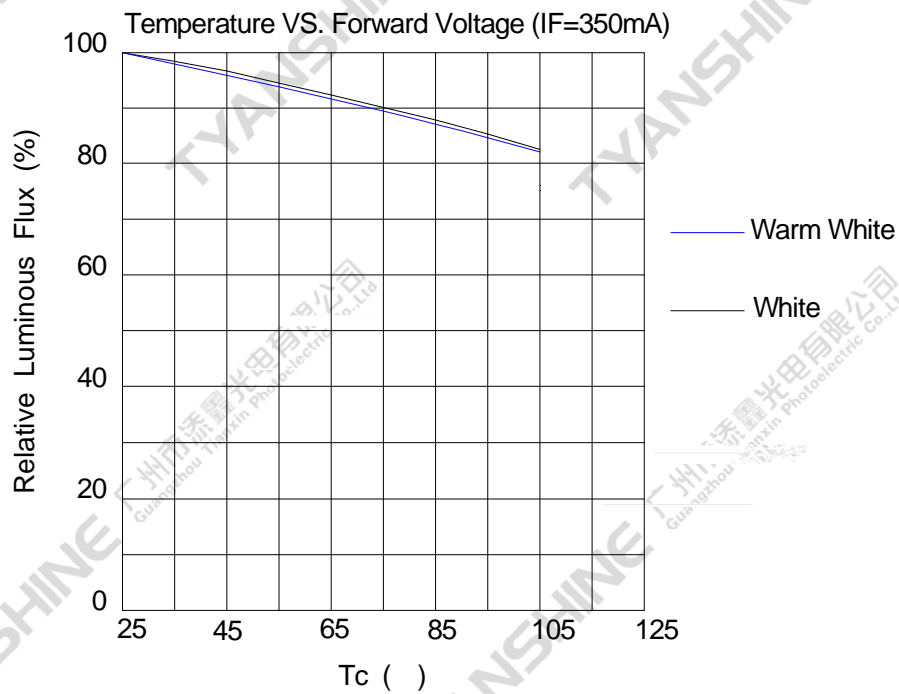
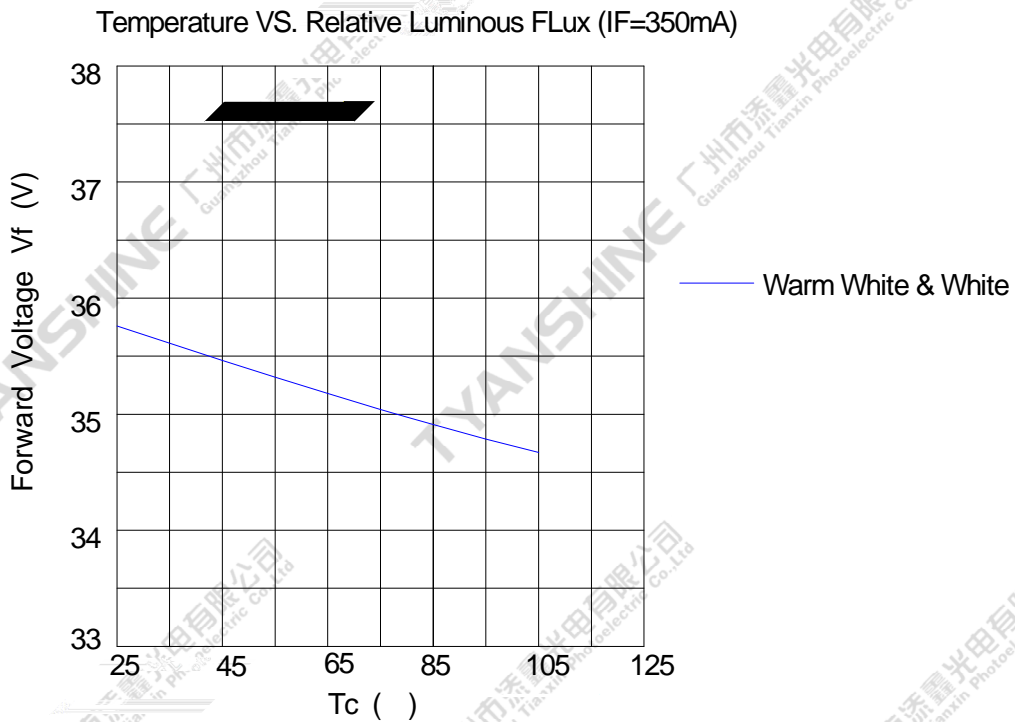
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Typical Electrical/Optical Characteristics Curves

(25 Ambient Temperature Unless Otherwise Noted)



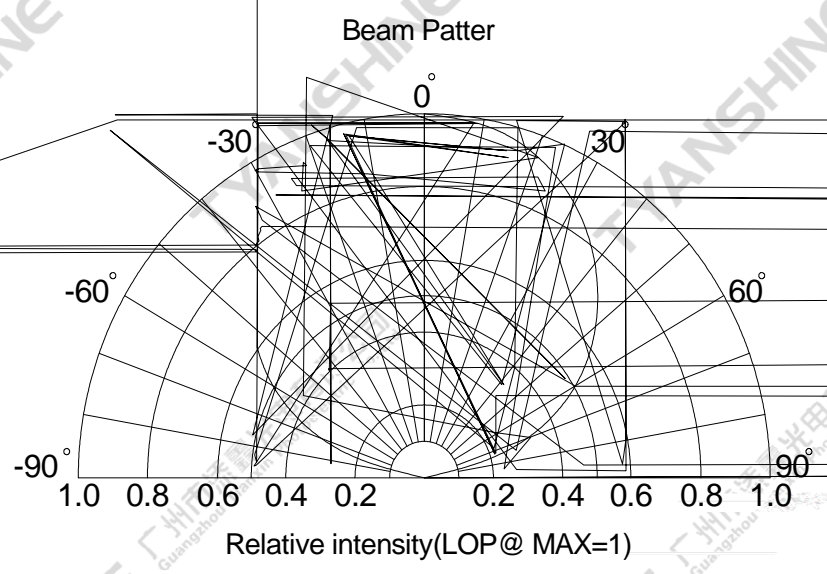
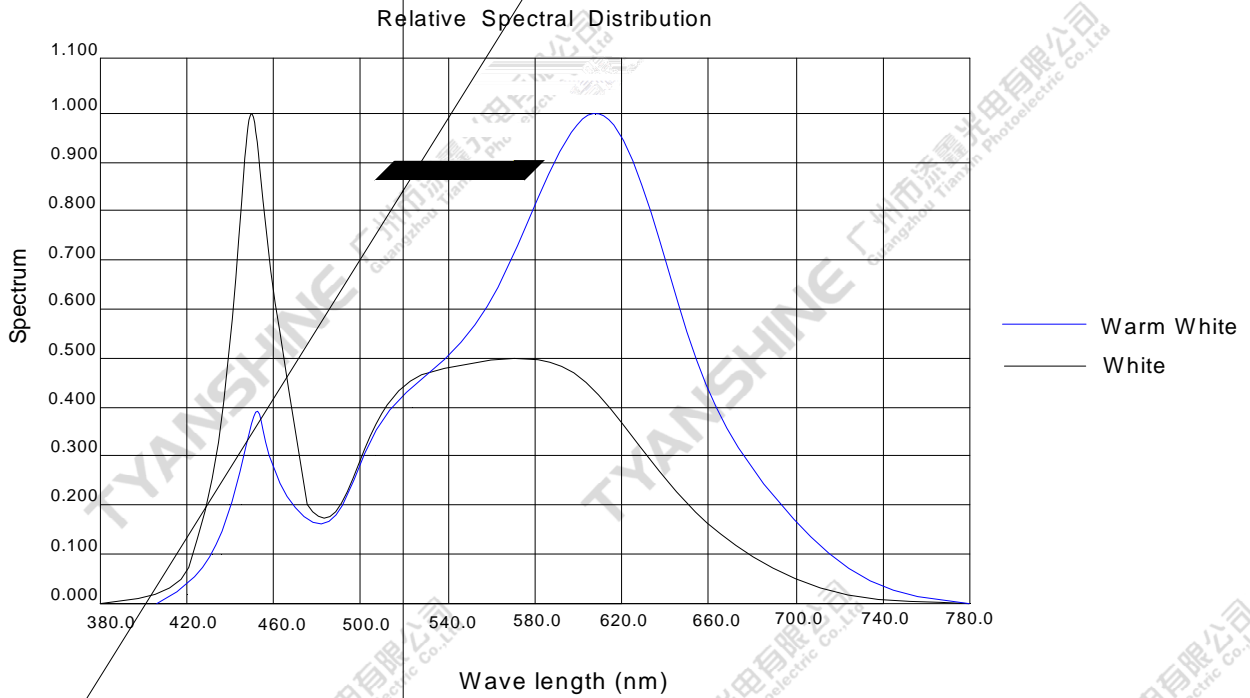
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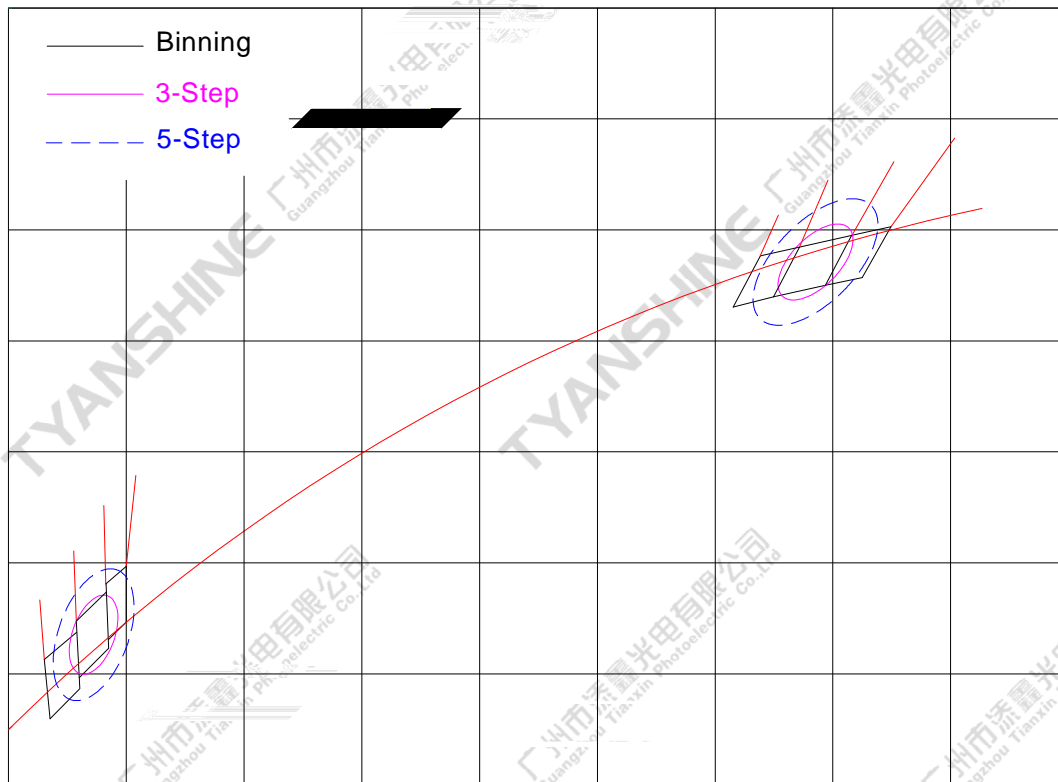
TYANSHINE 广州市天彦光电有限公司
Guangzhou Tianyan Photoelectric Co., Ltd.

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Chromaticity Coordinates (Condition IF=350mA Tc=25 °C)



Notes:

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

Reliability Test

Test Item	Test Condition
Continuous Operation Test	IF=350mA Ta=25 °C ×1000hrs
Low Temperature Storage Test	-30 °C × 1000 hours
High Temperature Storage Test	100 °C × 1000 hours
Moisture-proof Test	85 °C , 85 %RH for 500 hours
Thermal Shock Test	-30 °C × 30 minutes – 100 °C × 30 minutes, 100 cycle

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