

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:

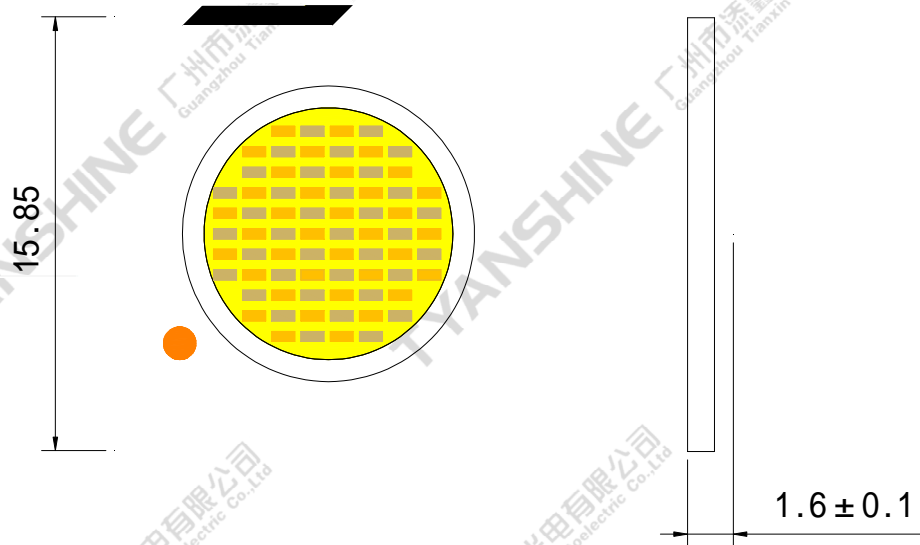
White
 Warm white

Applications:

Commercial lighting
 General Lighting

Part No.	TX-1512SW11A-2860V36-10H90	Spec No.	WKF-BF0373	Page	1 of 10
----------	----------------------------	----------	------------	------	---------

Package Dimensions:



Part No.	TX-1512SW11A-2860V36-10H90	Spec No.	WKF-BF0373	Page	2 of 10
----------	----------------------------	----------	------------	------	---------

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.

Part No.	TX-1512SW11A-2860V36-10H90	Spec No.	WKF-BF0373	Page	3 of 10
----------	----------------------------	----------	------------	------	---------

Electrical Optical Characteristics (Tc=25°C)

Parameter	Symbol	Condition	Emitting color	Min.	Typ.	Max.	Units
Luminous Flux	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°	2 1/2		S	—	115	—	Deg
			W	—	115	—	
Reverse Current	I _R		—	—	—	—	μA
Thermal Resistance Junction to Case	R _{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	—		

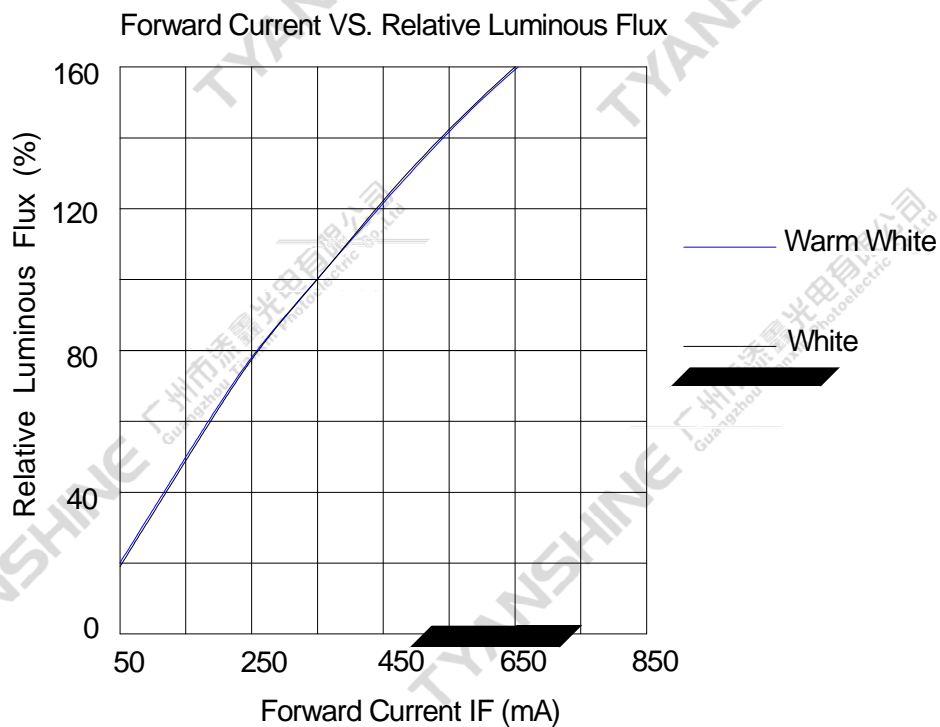
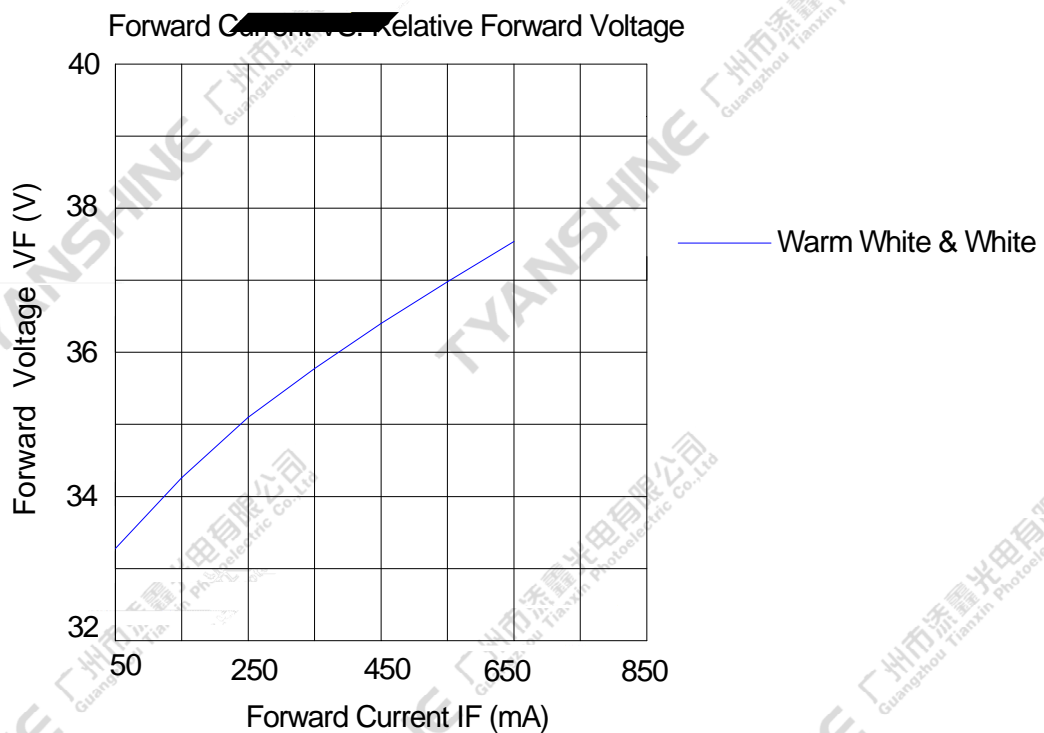
Notes:

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

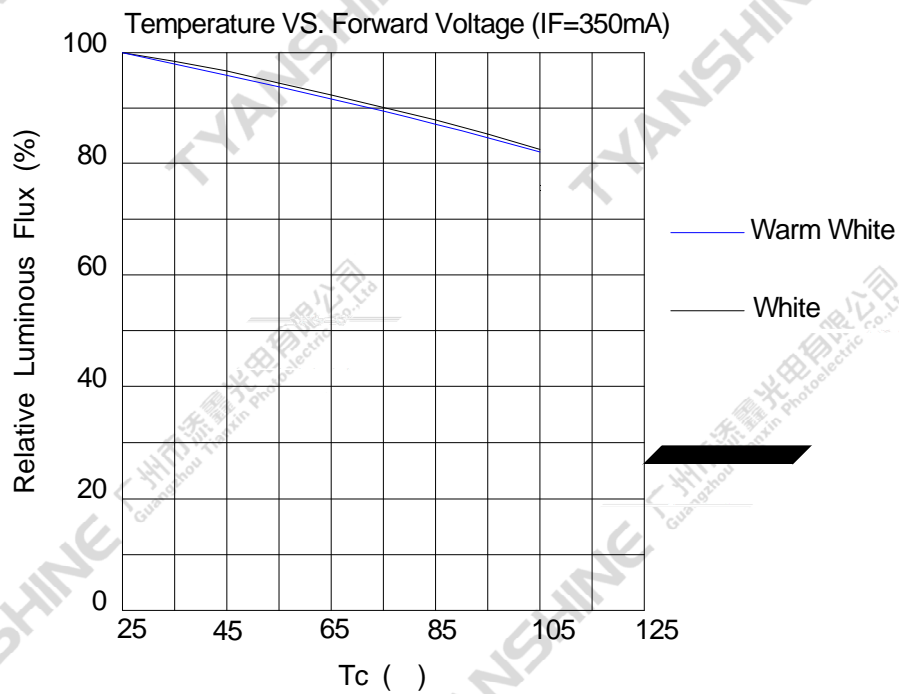
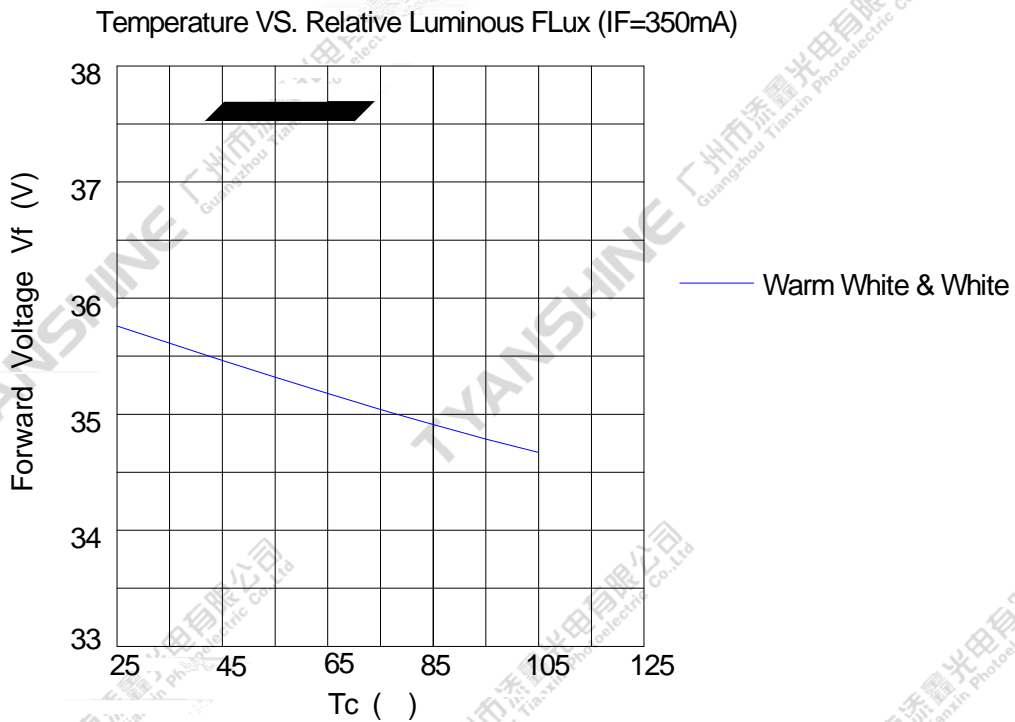
Part No.	TX-1512SW11A-2860V36-10H90	Spec No.	WKF-BF0373	Page	4 of 10
----------	----------------------------	----------	------------	------	---------

Typical Electrical/Optical Characteristics Curves

(25 Ambient Temperature Unless Otherwise Noted)



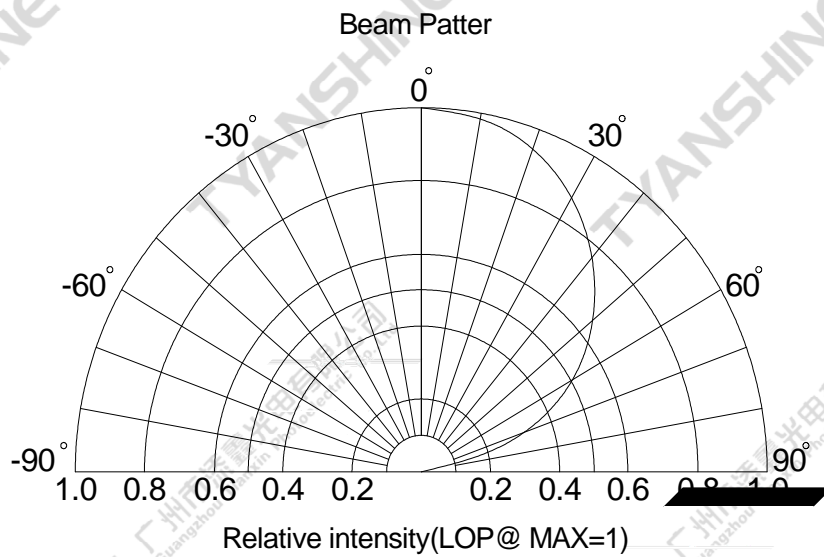
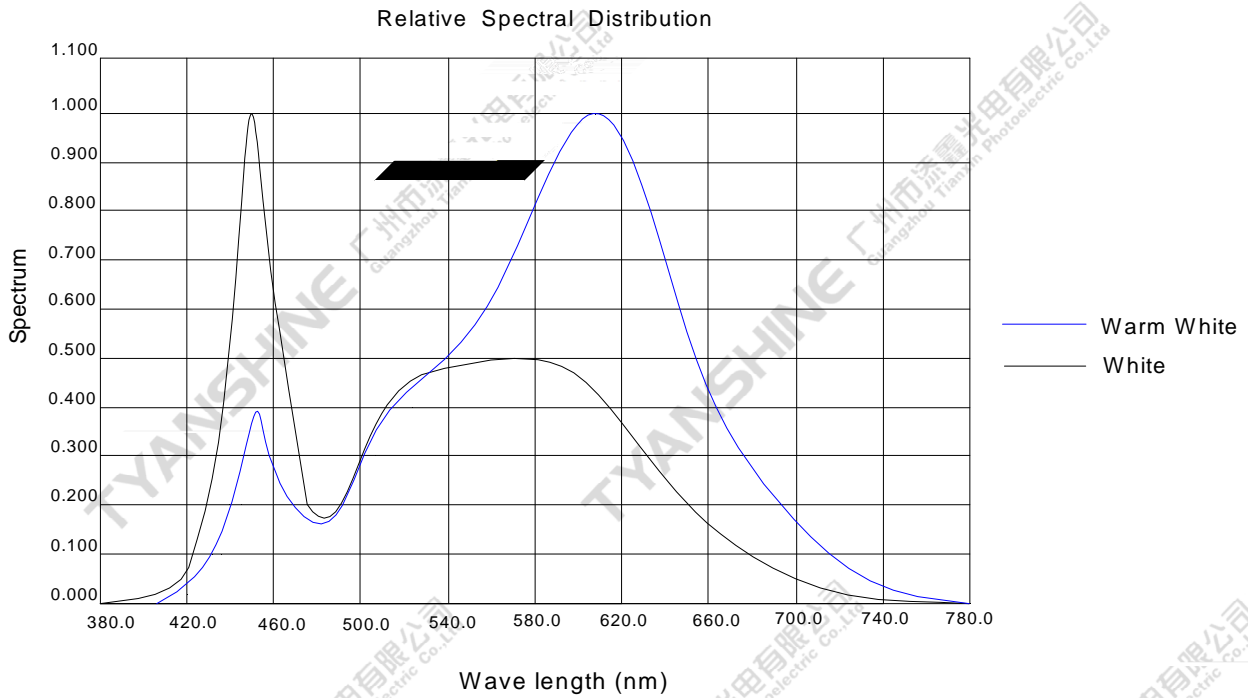
Part No.	TX-1512SW11A-2860V36-10H90	Spec No.	WKF-BF0373	Page	5 of 10
----------	----------------------------	----------	------------	------	---------



TYANSHINE 广州市天鑫光电有限公司
Guangzhou Tianxin Photoelectric Co., Ltd.

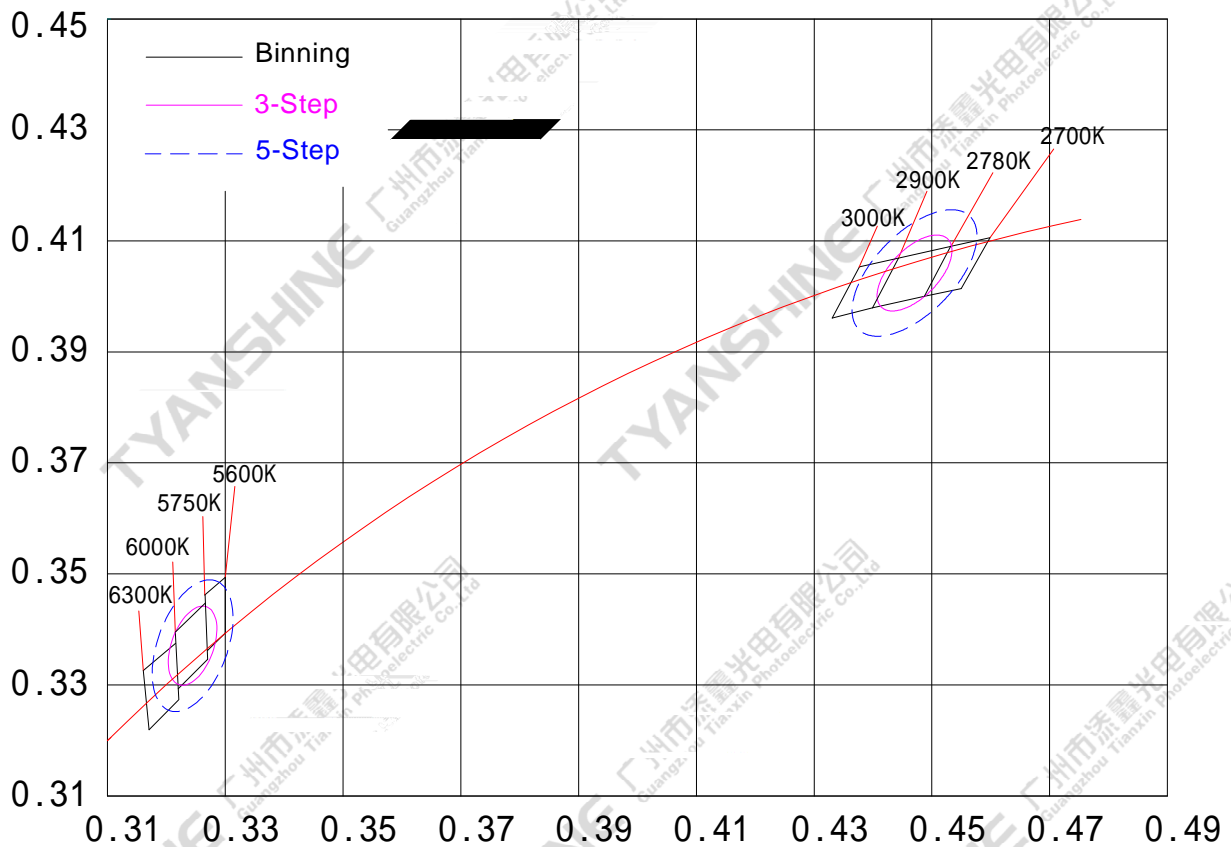
TYANSHINE 广州市天鑫光电有限公司
Guangzhou Tianxin Photoelectric Co., Ltd.





Part No.	TX-1512SW11A-2860V36-10H90	Spec No.	WKF-BF0373	Page	8 of 10
----------	----------------------------	----------	------------	------	---------

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 $T_c=25$ °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

Part No.	TX-1512SW11A-2860V36-10H90	Spec No.	WKF-BF0373	Page	9 of 10
----------	----------------------------	----------	------------	------	---------

