

TX-2728W120FC120-NUVENG-A01

PRODUCT SPECIFICATION

Features:

- ◆Excellent transiting heat from LED chip operating under 5.4A.
- ◆High luminous output.
- ◆No UV.
- ◆Encapsulated materials are environmentally certified and meet environmental requirements.

Chip Material:

- ◆ThinGaN

Emitting Color:

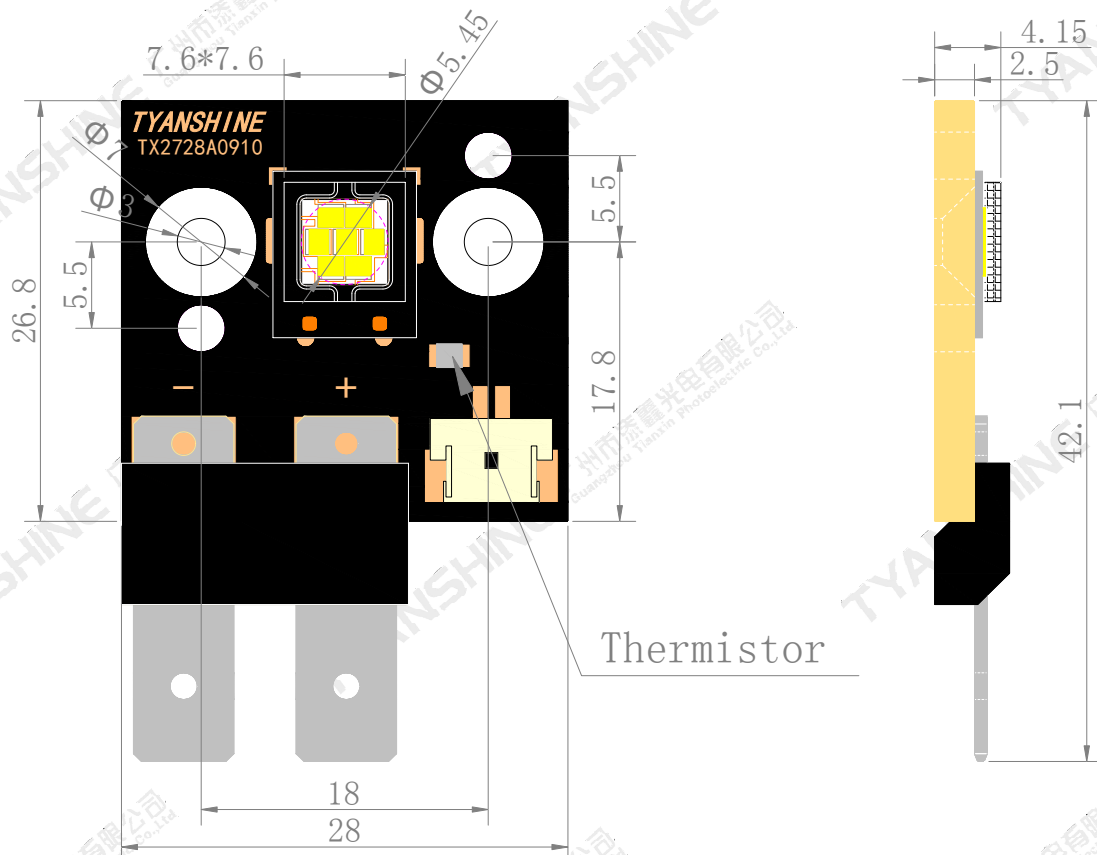
- ◆White (W)

Applications:

- ◆Auxiliary lighting
- ◆Architectural lighting

Part No.	TX-2728W120FC120-NUVENG-A01	Spec No.	WKF-FA0014	Page	1 of 7
----------	-----------------------------	----------	------------	------	--------

Package Dimensions:



Notes:

- 1.All dimensions are in millimeters .
- 2.Tolerances unless otherwise mentioned are $\pm 0.1\text{mm}$.

Part No.	TX-2728W120FC120-NUVENG-A01	Spec No.	WKF-FA0014	Page	2 of 7
----------	-----------------------------	----------	------------	------	--------

Absolute Maximum Ratings (Tc=25℃)

Parameter	Symbol	Ratings	Unit
Forward Current	IF	5.4	A
Reverse Voltage	VR	Not designed for reverse operation	V
Power Dissipation	PD	130	W
Junction Temperature	Tj	150	℃
Electrostatic Discharge Threshold (ESD)	ESD	2000	V
Storage Temperature	Tstg	-20~+70	℃
Operation Temperature	Topr	-30~+85	

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 (IF=5.4A)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Units
Luminous Flux	Φ_v	Tc=25℃	7030	—	9300	lm
		Tc=85℃	5700	—	7600	
Correlated Colour Temperature	CCT	Tc=25℃	6000	—	9000	K
		Tc=85℃	6950	—	10500	
Forward Voltage	V _f	Tc=25℃	20	23	26	V
		Tc=85℃	19	22	25	
Viewing Angle at 50 % IV	2 $\theta_{1/2}$	—	—	120	—	Deg
Spectral Line Half-Width	$\Delta\lambda$	Tc=25℃	25	30	35	nm
		Tc=85℃	27	32	37	
Reverse Current	I _R	—	—	—	—	μA
Thermal Resistance Junction to Case	R θ_{J-C}	—	—	0.55	—	K/W
Temperature Coefficient of Voltage	V Δ F/T	—	—	-13.8	—	mV/℃
Thermistor(NTC)	Rt25	—	—	10	—	KΩ

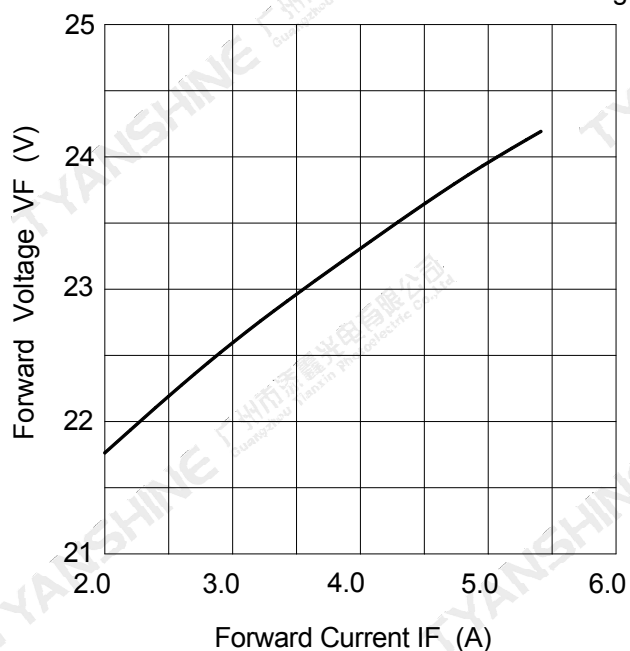
Notes:

- 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:±0.15V.

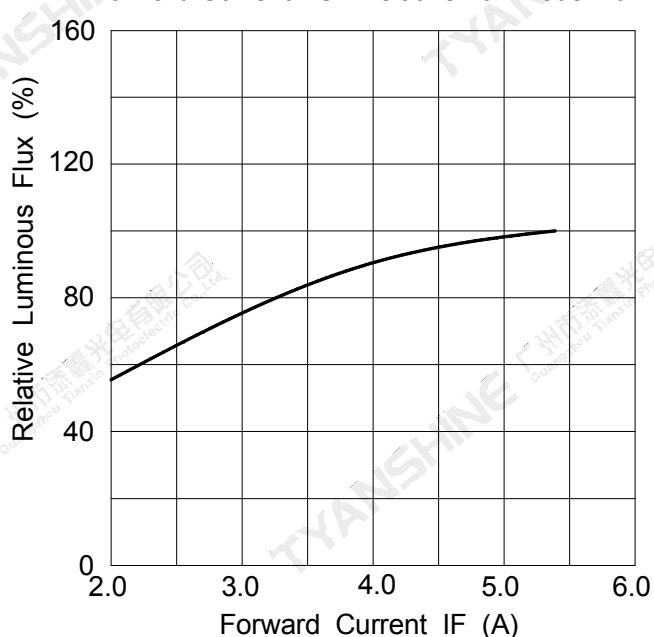
Typical Electrical/Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

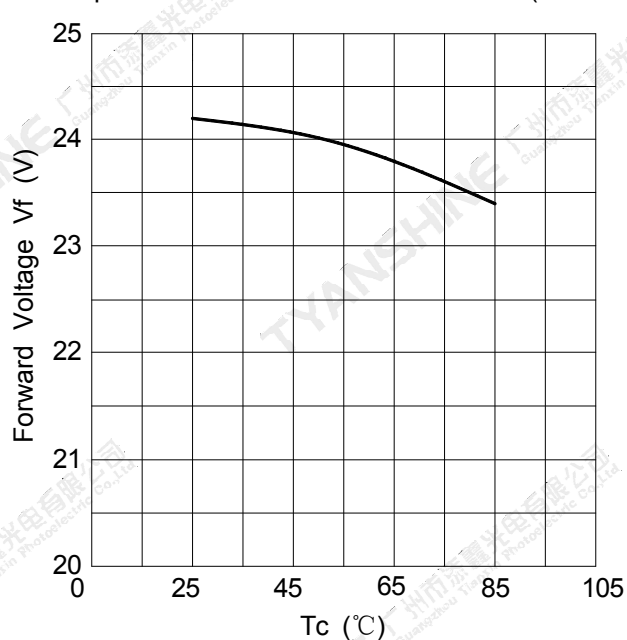
Forward Current VS. Relative Forward Voltage



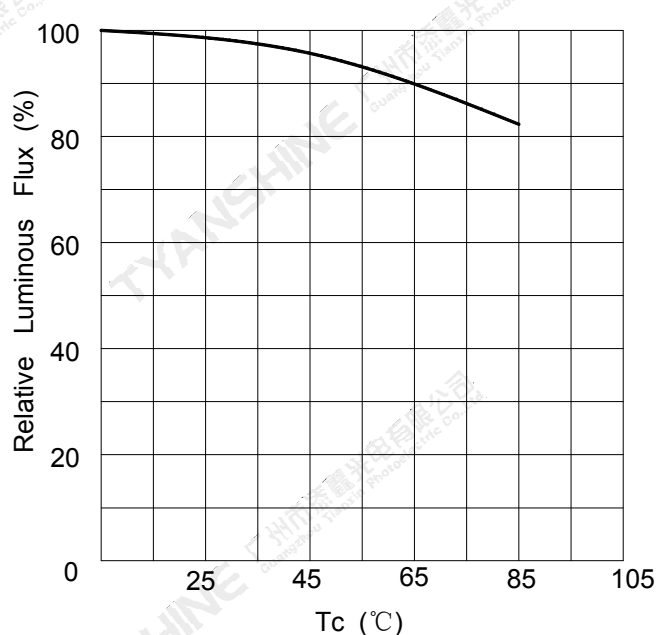
Forward Current VS. Relative Luminous Flux

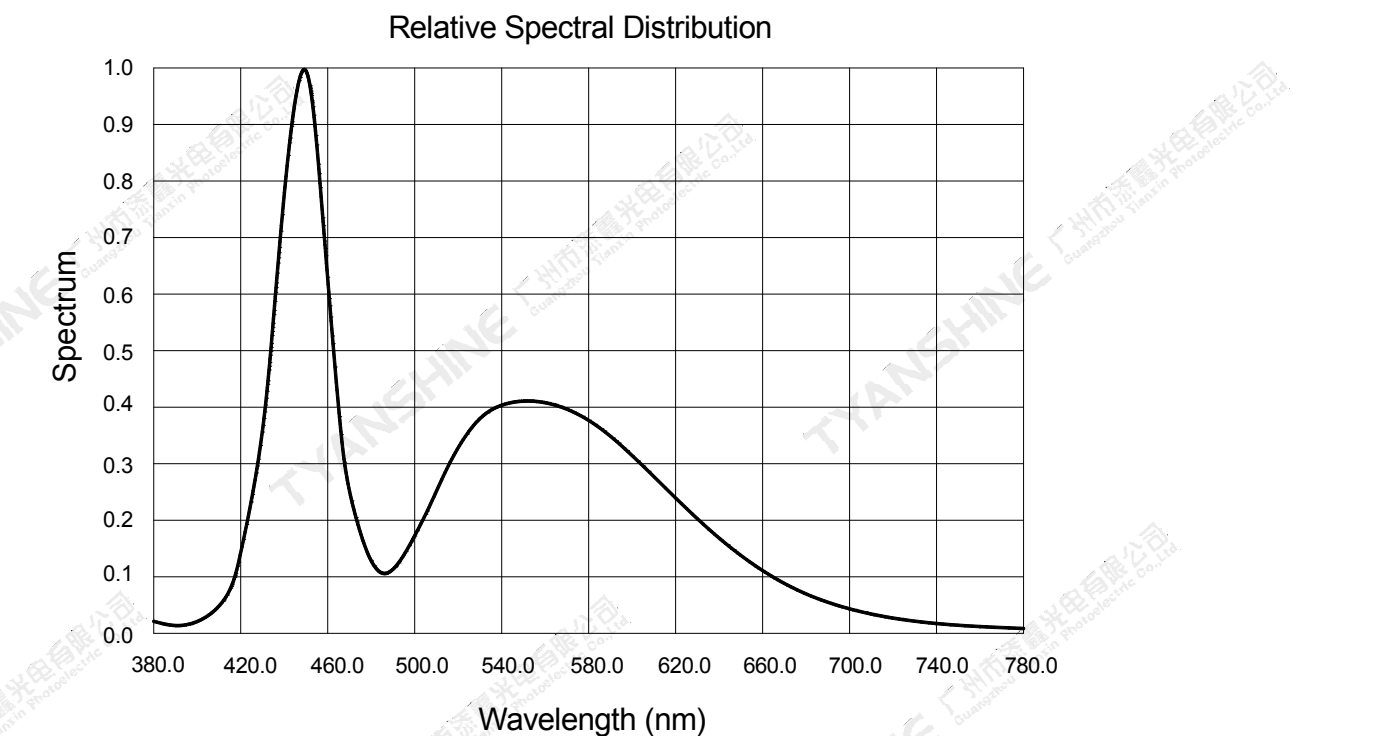
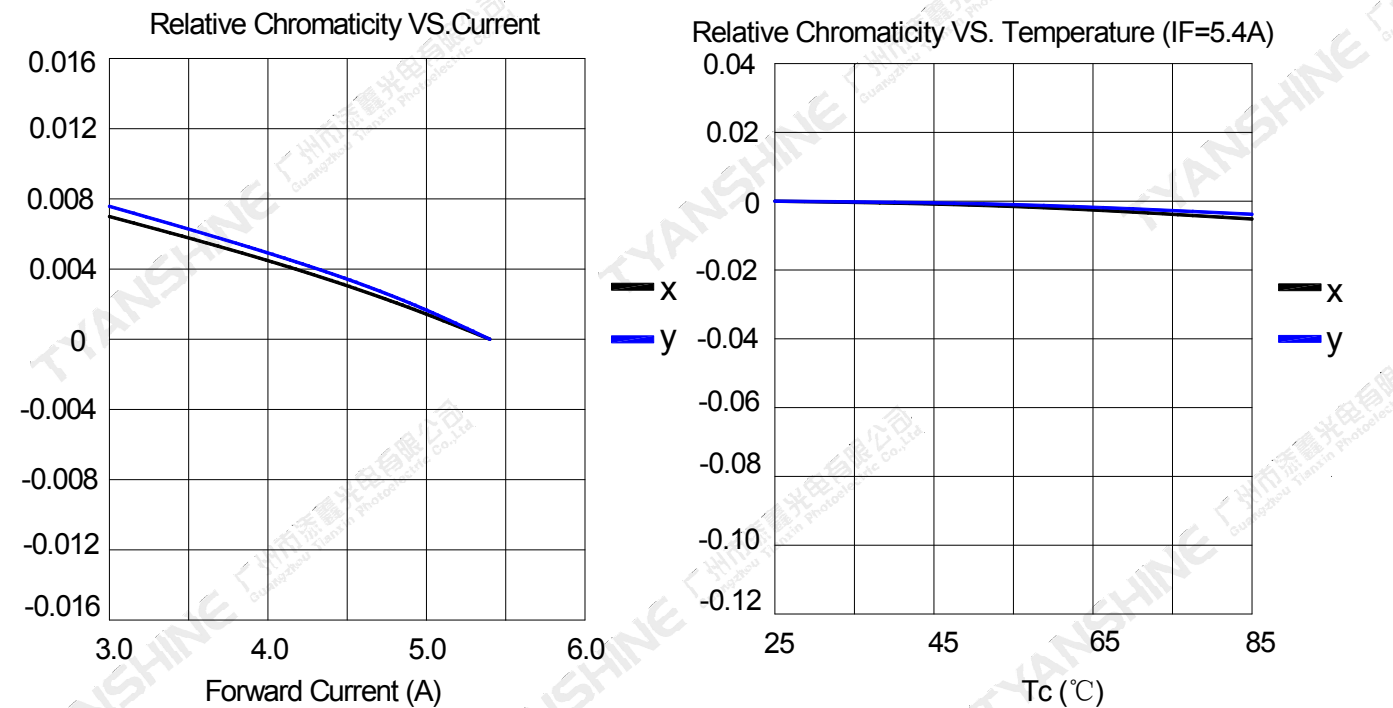


Temperature VS. Relative Luminous FLux (IF=5.4A)



Temperature VS. Forward Voltage (IF=5.4A)



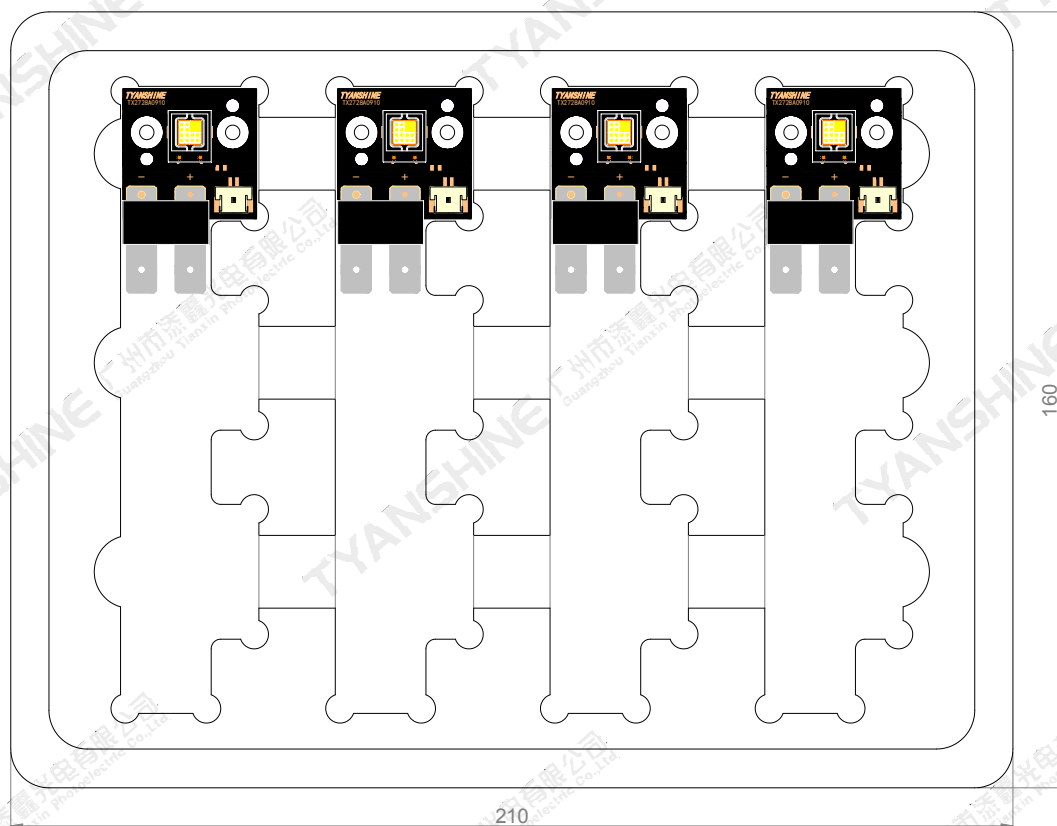


Notes:

- 2θ 1/2 is the off axis angle from lamp centerline where the luminous intensity is 1/2 of the peak value.
- View angle tolerance is ± 5°.

Dimensions For Cannulation And Packaging

Quantity:12 PCS



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.