

TX-2728W80FC120-NUVENG-B02H95

PRODUCT SPECIFICATION

Features:

- ◆Excellent transiting heat from LED chip operating under 12A.
- ◆High luminous output.
- ◆No UV.
- ◆Encapsulated materials are environmentally certified and meet environmental requirements.

Chip Material:

- ◆ThinGaN

Emitting Color:

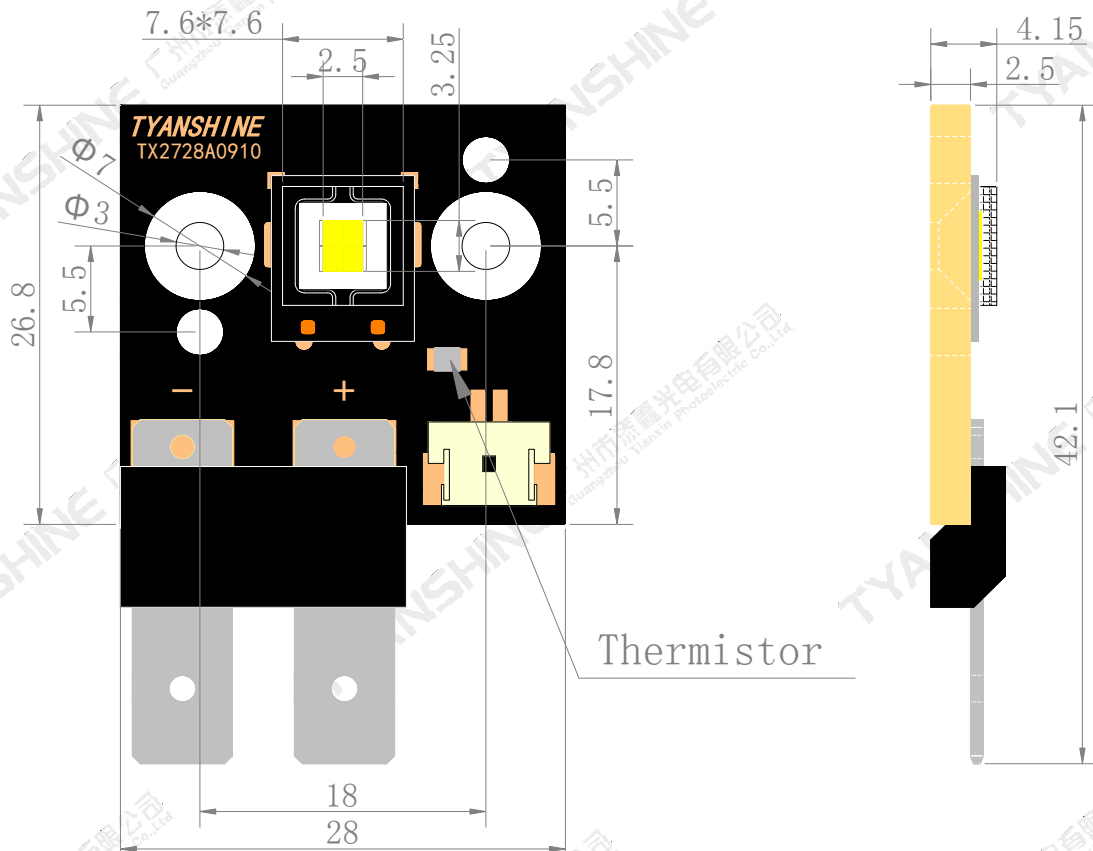
- ◆White (W)

Applications:

- ◆Auxiliary lighting
- ◆Architectural lighting

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Package Dimensions:



Notes:

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

Absolute Maximum Ratings (Tc=25℃)

Parameter	Symbol	Ratings	Unit
Forward Current	IF	24	A
Reverse Voltage	VR	Not designed for reverse operation	V
Power Dissipation	PD	85	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:

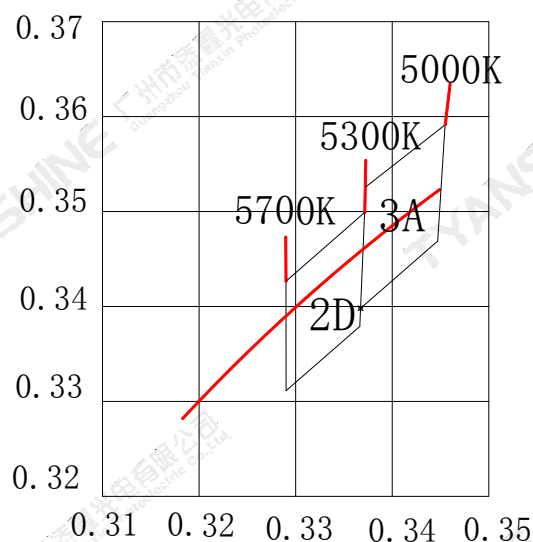
STATIC SHIELD Electricity and surge damages the LED. It is recommended to use a wrist band or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly grounded.

Electrical Optical Characteristics IF=12.0A , Tc=25℃

Parameter	Symbol	Min.	Typ.	Max.	Units
Luminous Flux	ϕ_v	2000	—	2600	lm
Correlated Colour Temperature	CCT	5300	—	6000	K
Forward Voltage	V_f	3.0	3.8	4.5	V
Viewing Angle at 50 % IV	$2\theta_{1/2}$	—	120	—	Deg
Spectral Line Half-Width	$\Delta\lambda$	25	30	35	nm
Color Rendering Index	Ra	95	96	—	—
Reverse Current	I_R	—	—	—	μA
Thermal Resistance Junction to Case	$R\theta_{J-C}$	—	0.9	—	K/W
Temperature Coefficient of Voltage	$V\Delta F/T$	—	-10.2	—	mV/℃
Thermistor(NTC)	Rt25	—	10	—	K Ω

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: $\pm 0.15V$.

White light Color coordinate filing (IF=6.0A, Tc=25℃)

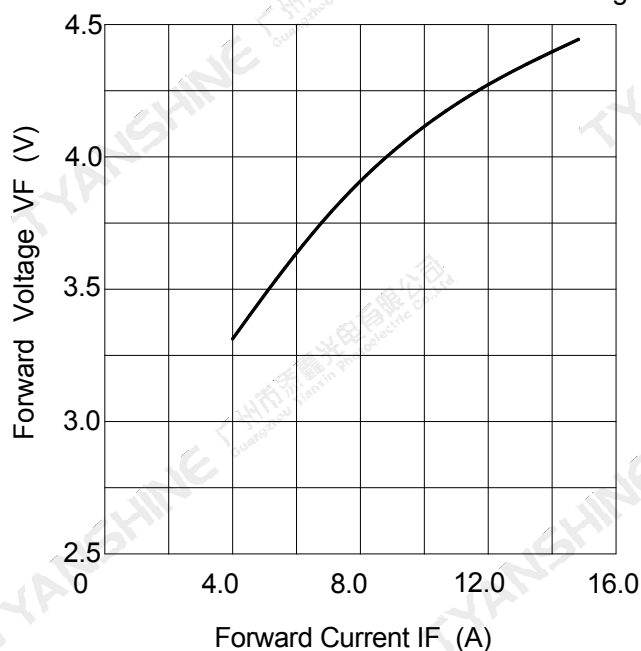
Region	CCT Range	X1	Y1	X2	Y2	X3	Y3	X4	Y4
2D	5300-5700K	0.3366	0.3379	0.3371	0.3499	0.329	0.3427	0.329	0.3311
3A	5000-5300K	0.3447	0.3469	0.3455	0.3591	0.3373	0.3526	0.3367	0.3398

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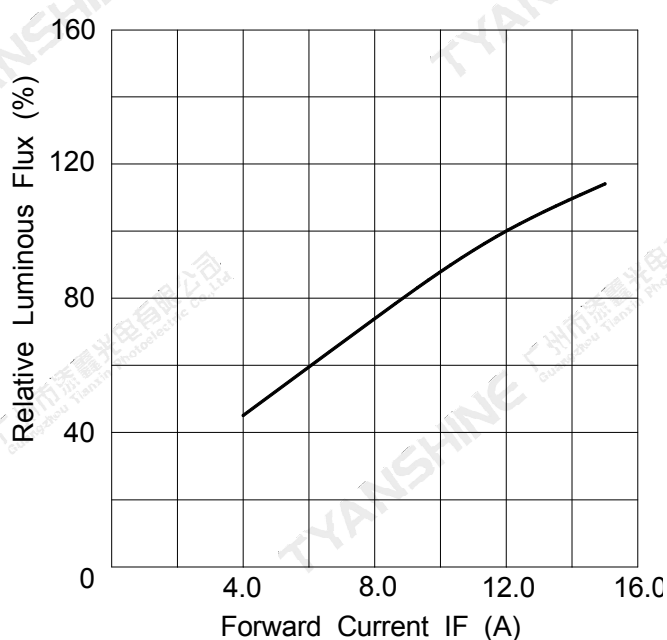
Typical Electrical/Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

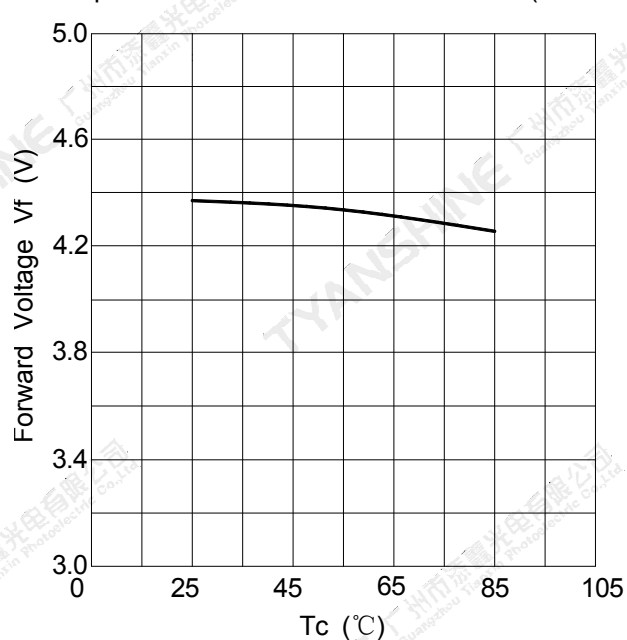
Forward Current VS. Relative Forward Voltage



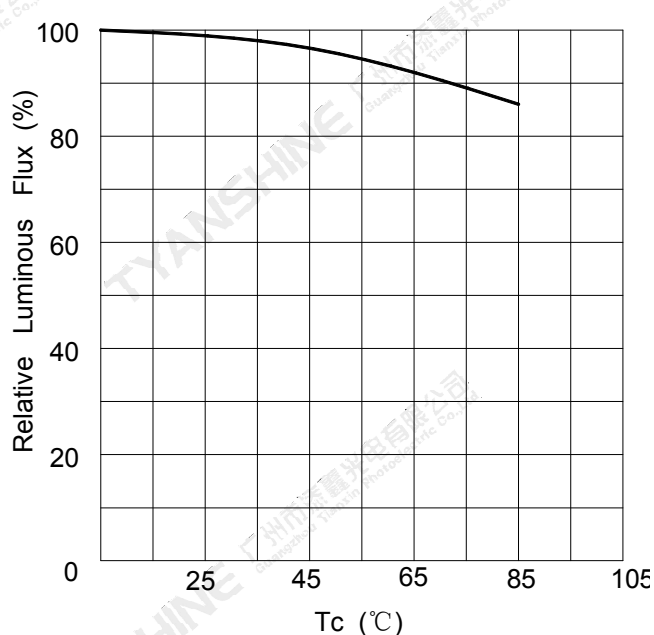
Forward Current VS. Relative Luminous Flux



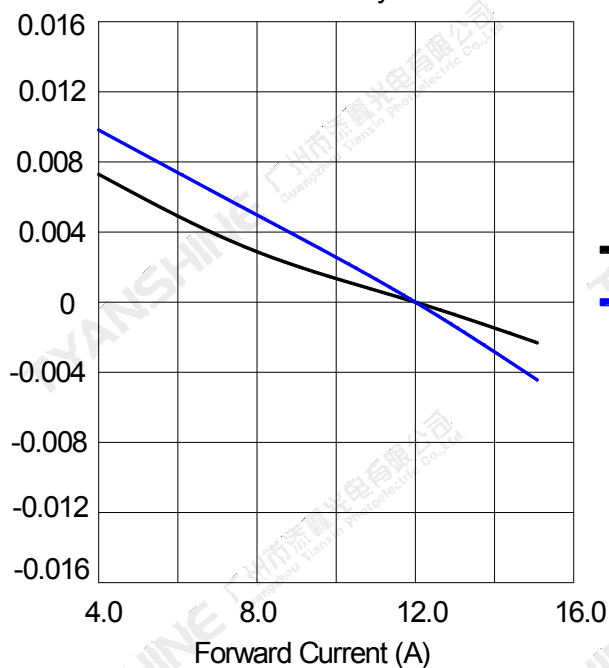
Temperature VS. Relative Luminous FLux (IF=12.0A)



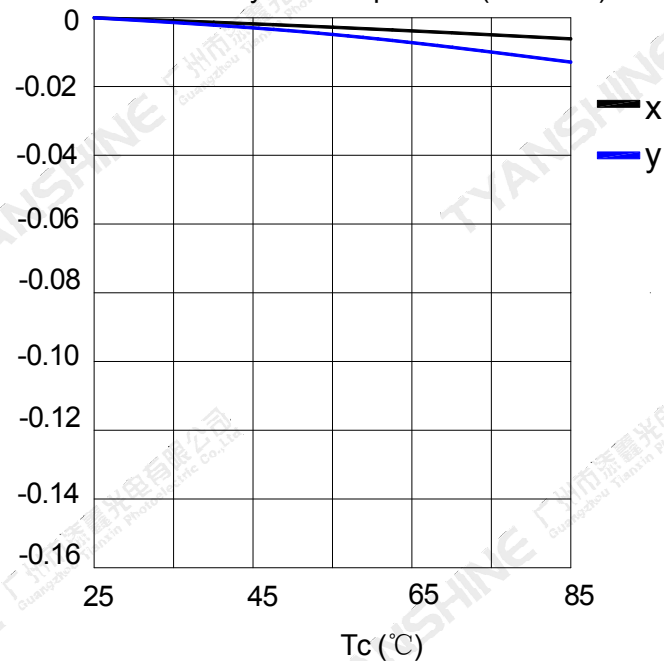
Temperature VS. Forward Voltage (IF=12.0A)



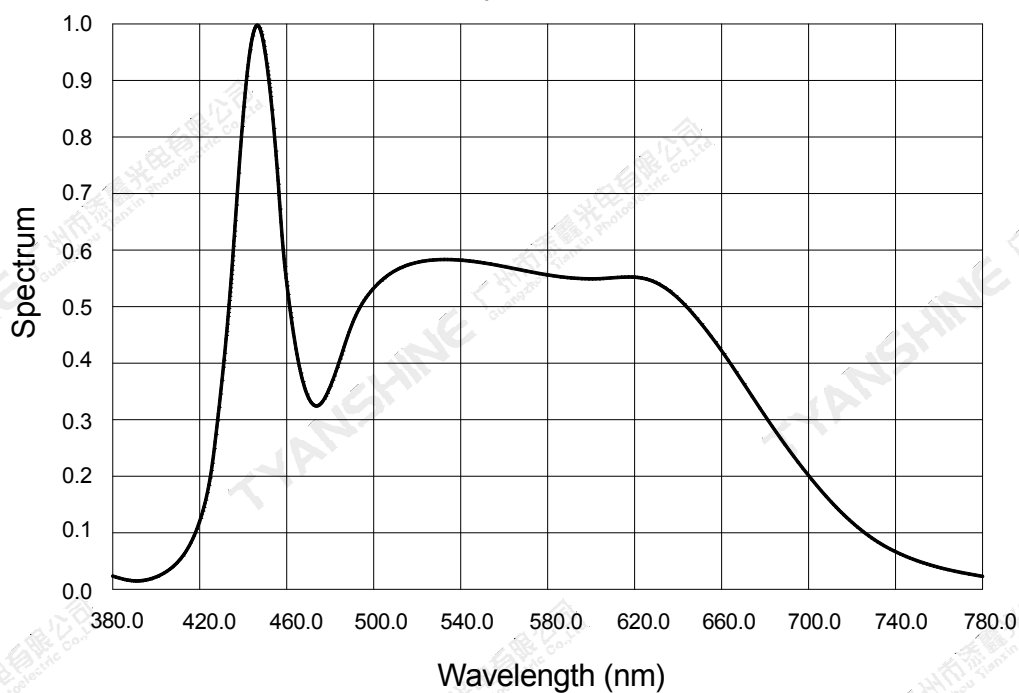
Relative Chromaticity VS. Current



Relative Chromaticity VS. Temperature (IF=12.0A)



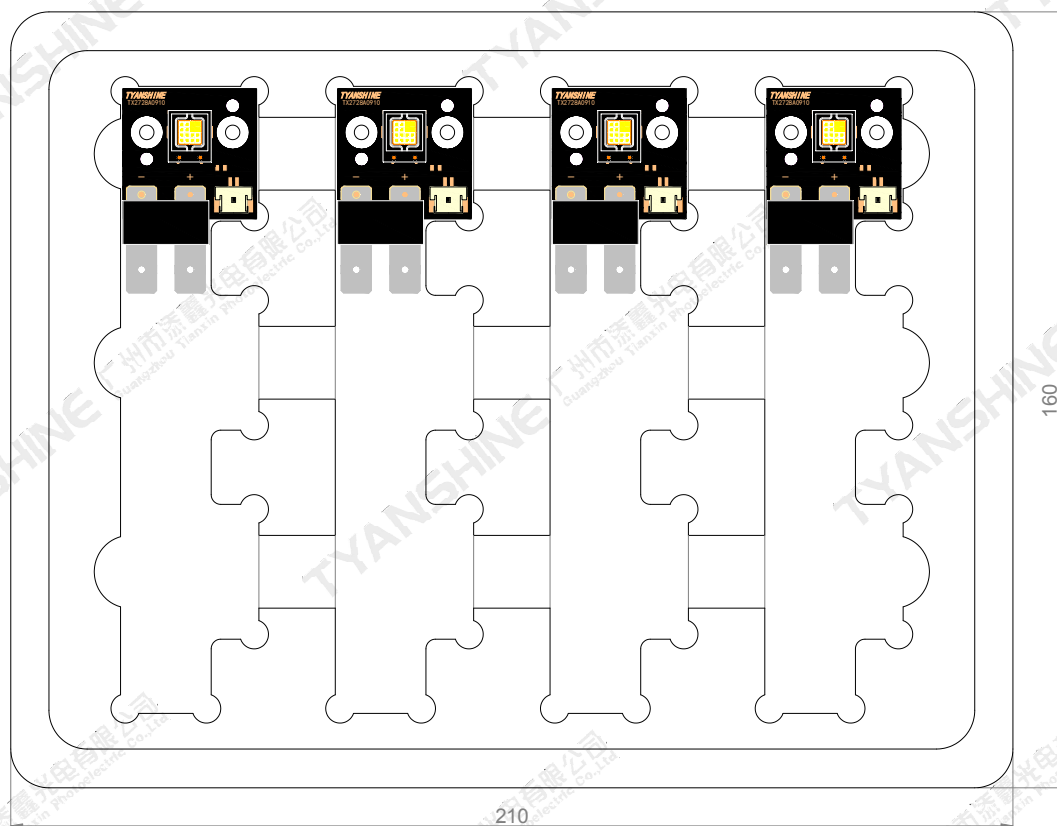
Relative Spectral Distribution

**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 $\pm 5^\circ$.

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.

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