

# TX-6065W60FC120-NUVENG-B01H90

## PRODUCT SPECIFICATION

### Features:

- ◆ Excellent transiting heat from LED chip operating under 4.0 A.
- ◆ High luminous output.
- ◆ No UV.
- ◆ Encapsulated materials are environmentally certified and meet environmental requirements.

### Chip Material:

- ◆ GaN

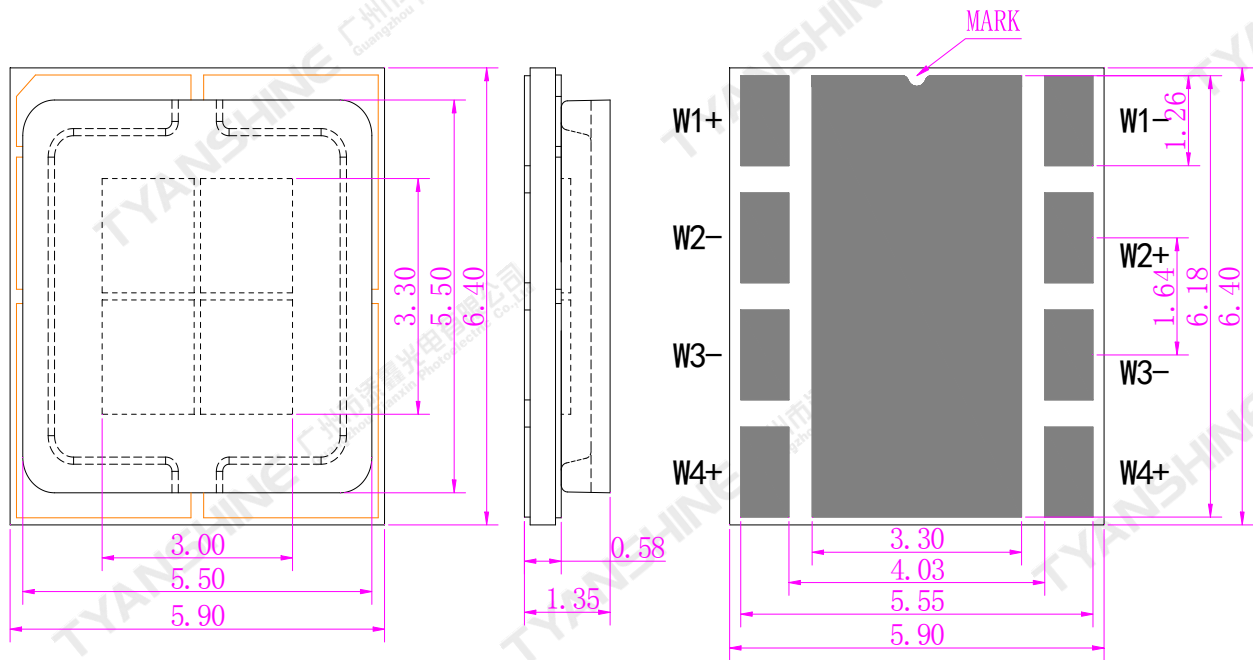
### Emitting Color:

- ◆ White

### Applications:

- ◆ Auxiliary lighting
- ◆ Ambient lighting
- ◆ Architectural lighting

**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°C)**

Parameter	Symbol	Ratings	Unit
Forward Current	IF	4000	mA
Reverse Voltage	VR	Not designed for reverse operation	V
Power Dissipation	PD		W
Junction Temperature	Tj	150	°C
Electrostatic Discharge Threshold (ESD)	ESD	2000	V
Storage Temperature	Tstg	-20~+80	°C
Operation Temperature	Topr	-40~+135	

**Notes:**

- Specifications are subject to change without notice.
- Under the stipulated Characteristics parameters above, the life span of the LED is more than 50,000hours.
- 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.

**Electrical Optical Characteristics (Tc=25°C)**

Parameter	Symbol	Condition	Emitting color	Min.	Typ.	Max.	Units
Luminous Flux	$\phi_v$	If=4.0A	W	2500	2800	3100	lm
Forward Voltage	$V_f$	If=4.0A	W	11	12.5	14	V
Correlated Colour Temperature	CCT	If=4.0A	W	5400	5600	5800	K
Viewing Angle at 50 % IV	$2\theta_{1/2}$	—	W	—	120	—	Deg
Reverse Current	$I_R$		W	—	—	—	$\mu$ A
Thermal Resistance Junction to Case	$R\theta_{J-C}$		—	—	0.35	—	K/W
Temperature Coefficient of Voltage	$V\Delta F/T$	If=4.0A	W	—	-2	—	mV/°C
Color Rendering Index	$R_a$		W	90	92.5	95	—

**White light Color coordinate filing (IF=4000mA )**

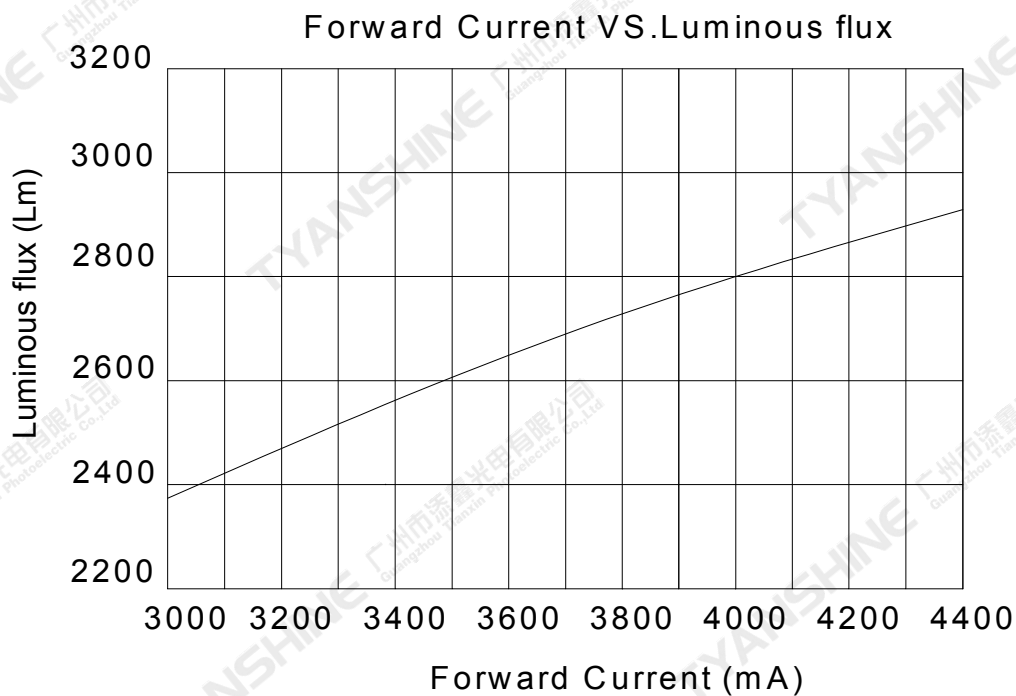
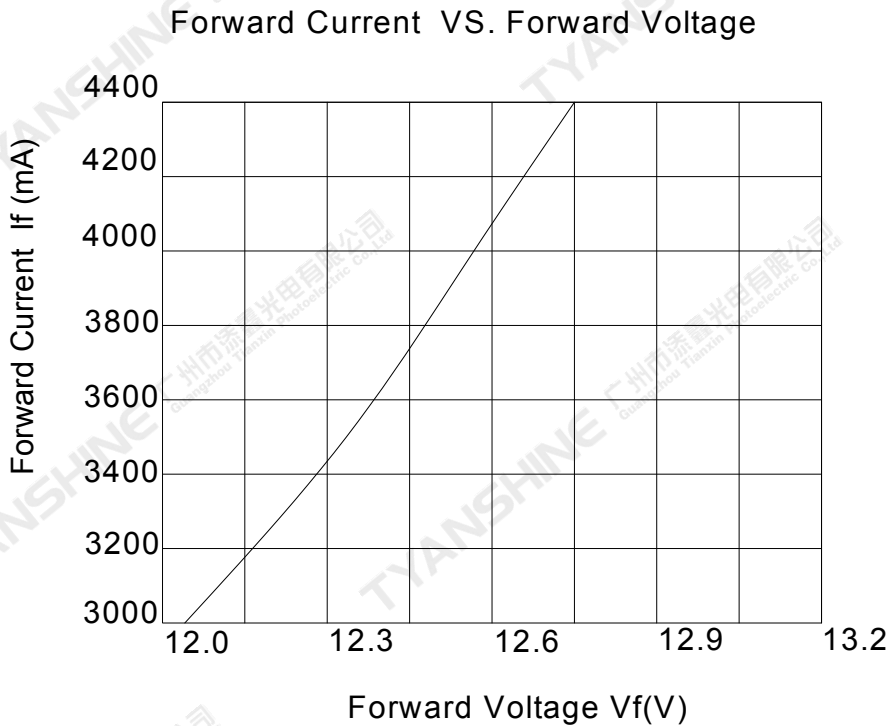
Grade	TC	P1		P2		P3		P4	
		X1	Y1	X2	Y2	X3	Y3	X4	Y4
G	5400-5800K	0.3345	0.3390	0.3261	0.3328	0.3256	0.3415	0.3348	0.3493

**Notes:**

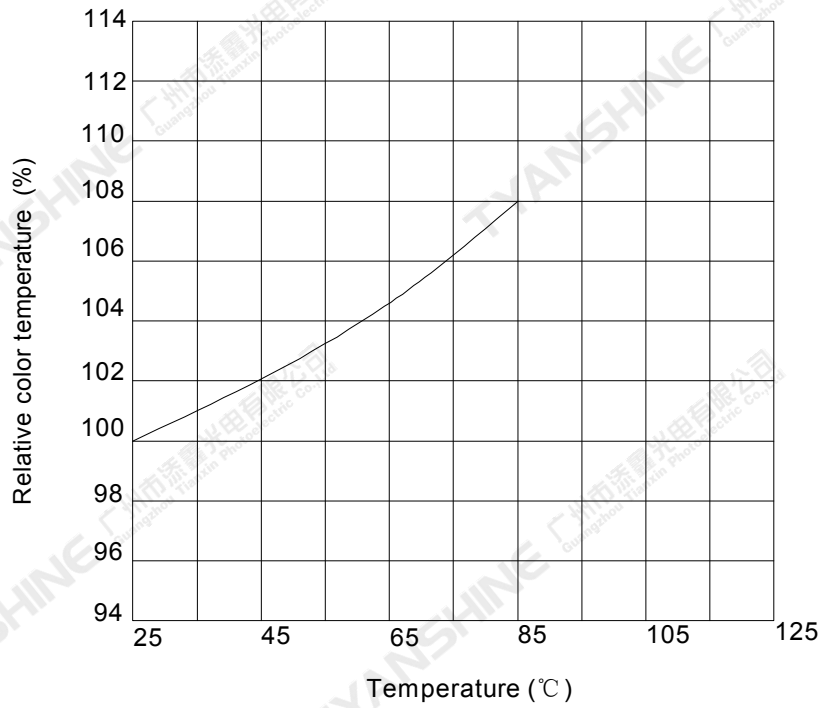
- Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- $\theta_{1/2}$  is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- Luminous flux measurement tolerance:±15%.
- Forward voltage measurement tolerance:±0.15V.

**Typical Electrical/Optical Characteristics Curves**

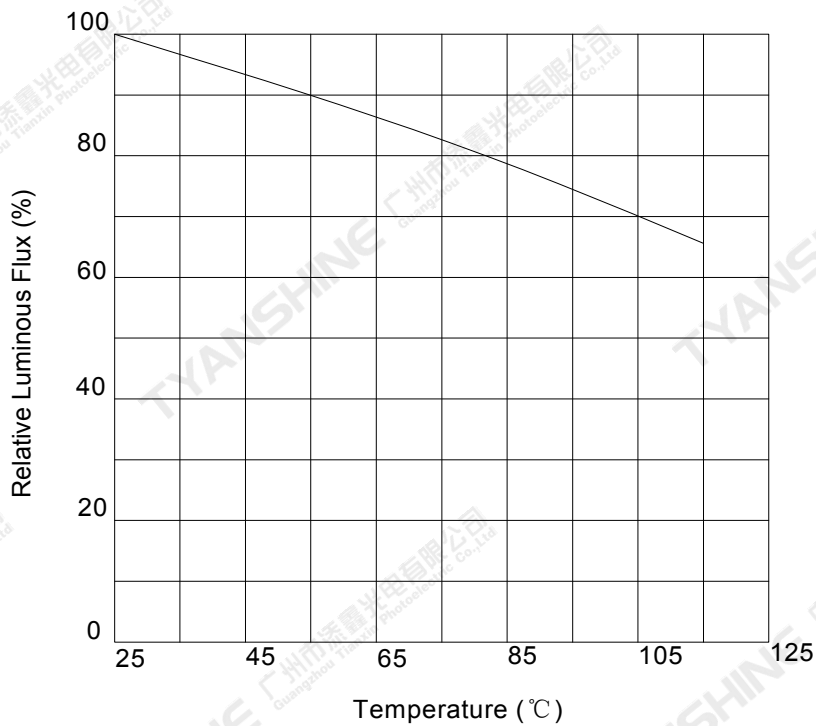
(25°C Ambient Temperature Unless Otherwise Noted)

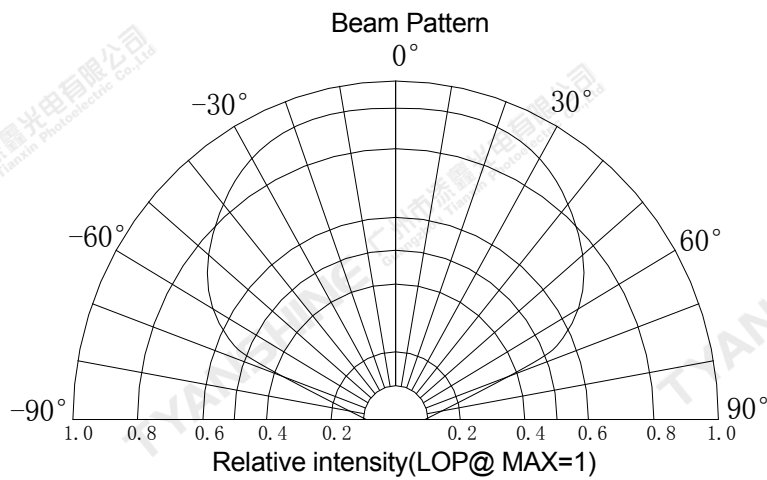
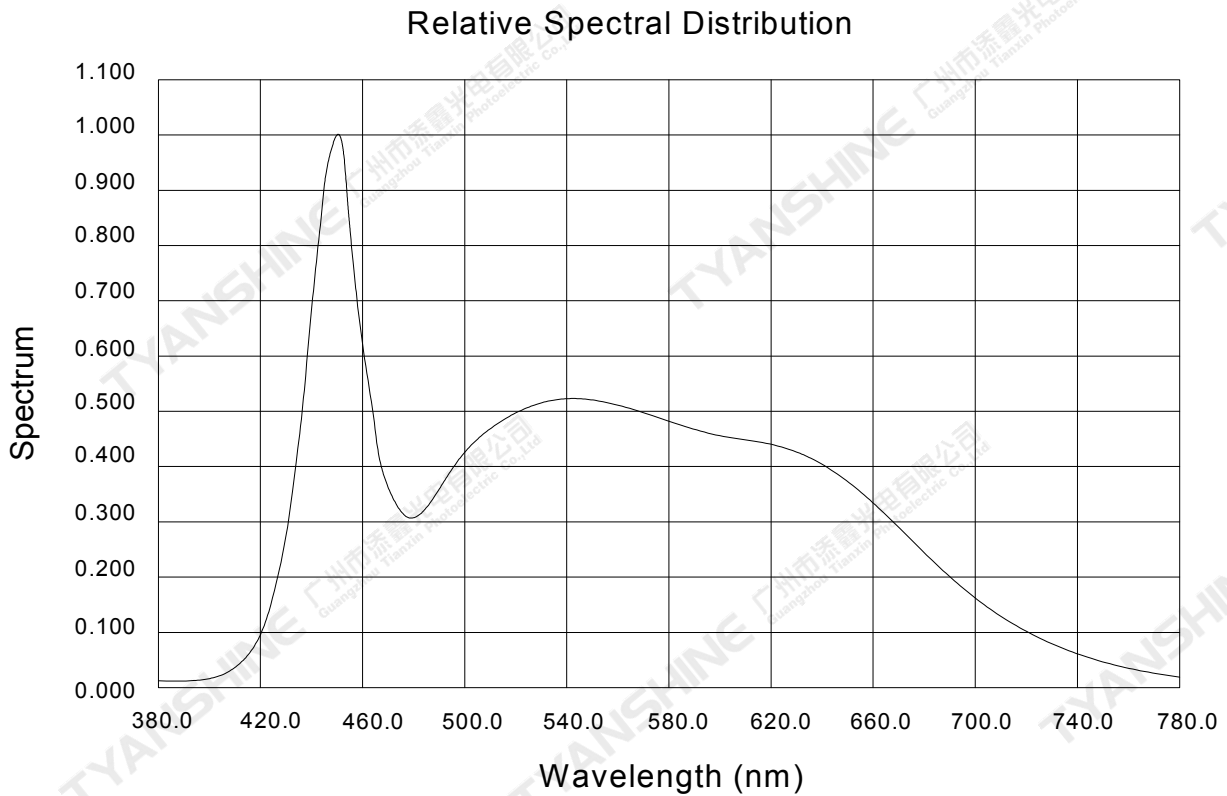


Temperature VS. Relative color temperature (IF=4000mA)



Temperature VS. Relative Luminous Flux (IF=4000mA)





**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  $\pm 5^\circ$ .

**Usage Precautions**

**Storage Environment Condition**

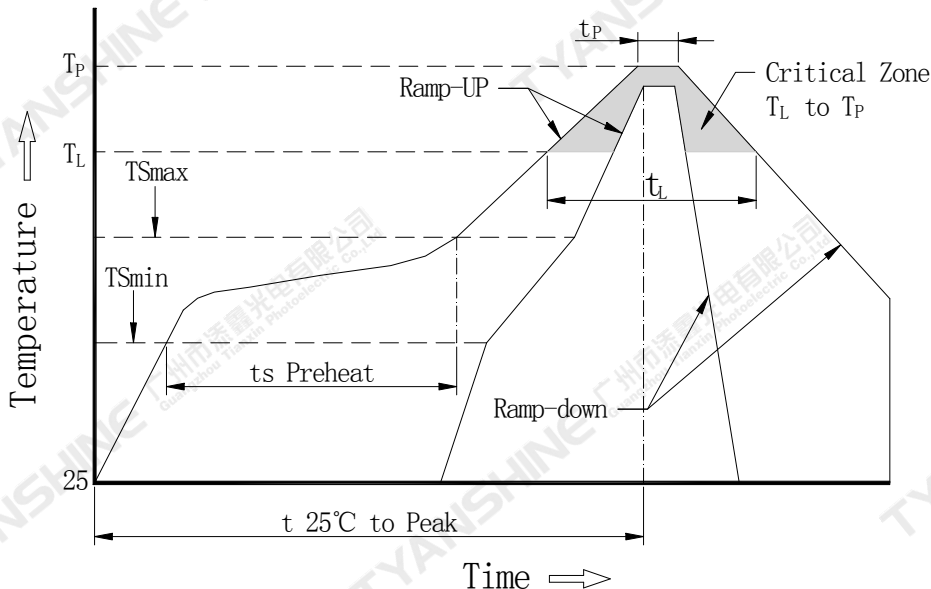
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Temperature: 5°C ~ 30°C (41°F ~ 86°F)

Humidity: 60% RH Max.

**Soldering Condition**

Use the conditions shown to the under figure.



Profile Feature	Lead-Based Solder
Average Ramp-Up Rate (TSmax to TP)	3°C/second max.
Preheat: Temperature Min (TSmin)	100°C
Preheat: Temperature Max (TSmax)	150°C
Preheat: Time (TSmin to TSmax)	60-120 seconds
Time Maintained Above: Temperature (TL)	183°C
Time Maintained Above: Time (tL)	60-150 seconds
Peak/Classification Temperature (TP)	225°C
Time Within 5°C of Actual Peak Temperature (TP)	10-30 seconds
Ramp-Down Rate	6°C/second max.
Time 25°C to Peak Temperature	6 minutes max.

**Note:**

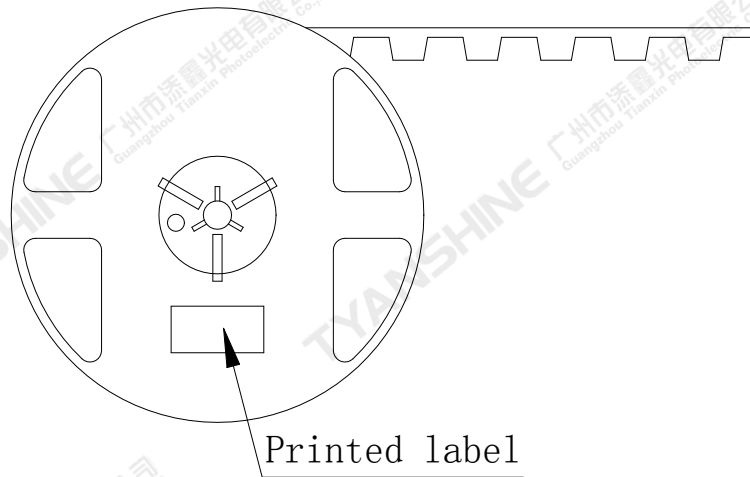
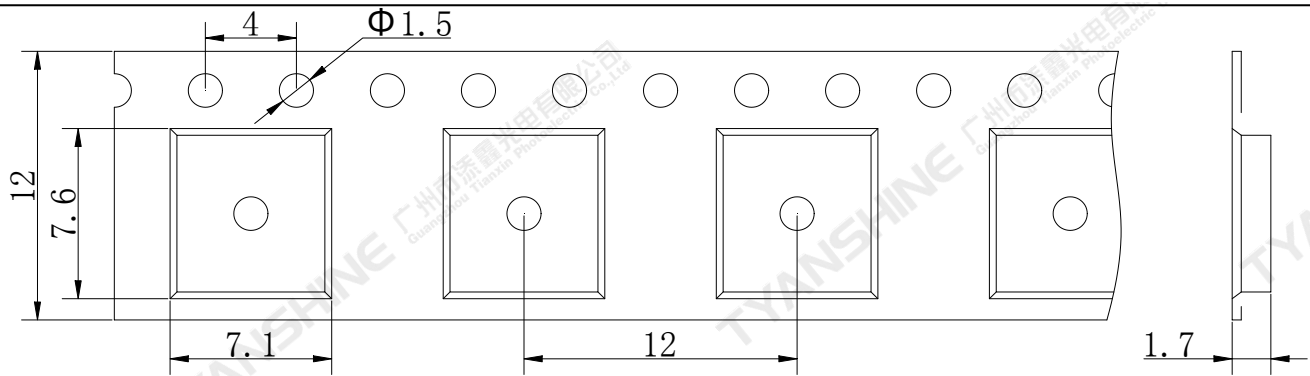
All temperatures refer to topside of the package, measured on the package body surface.

**Dimensions For Cannulation And Packaging**

**Quantity:1000PCS**

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**Notes:**

1. All dimensions are in millimeters.
2. Tolerances are  $\pm 2.0$  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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