

# TX-4566W400FC120-NUVENG-A01

## PRODUCT SPECIFICATION

### Features:

- ◆ Excellent transiting heat from LED chip operating under 9000mA.
- ◆ Light emitting area is small, power per unit area of up to 5W/mm<sup>2</sup>.
- ◆ High luminous output.
- ◆ Encapsulated materials are environmentally certified and meet environmental requirements.

### Chip Material:

- ◆ White: GaN

### Emitting Color:

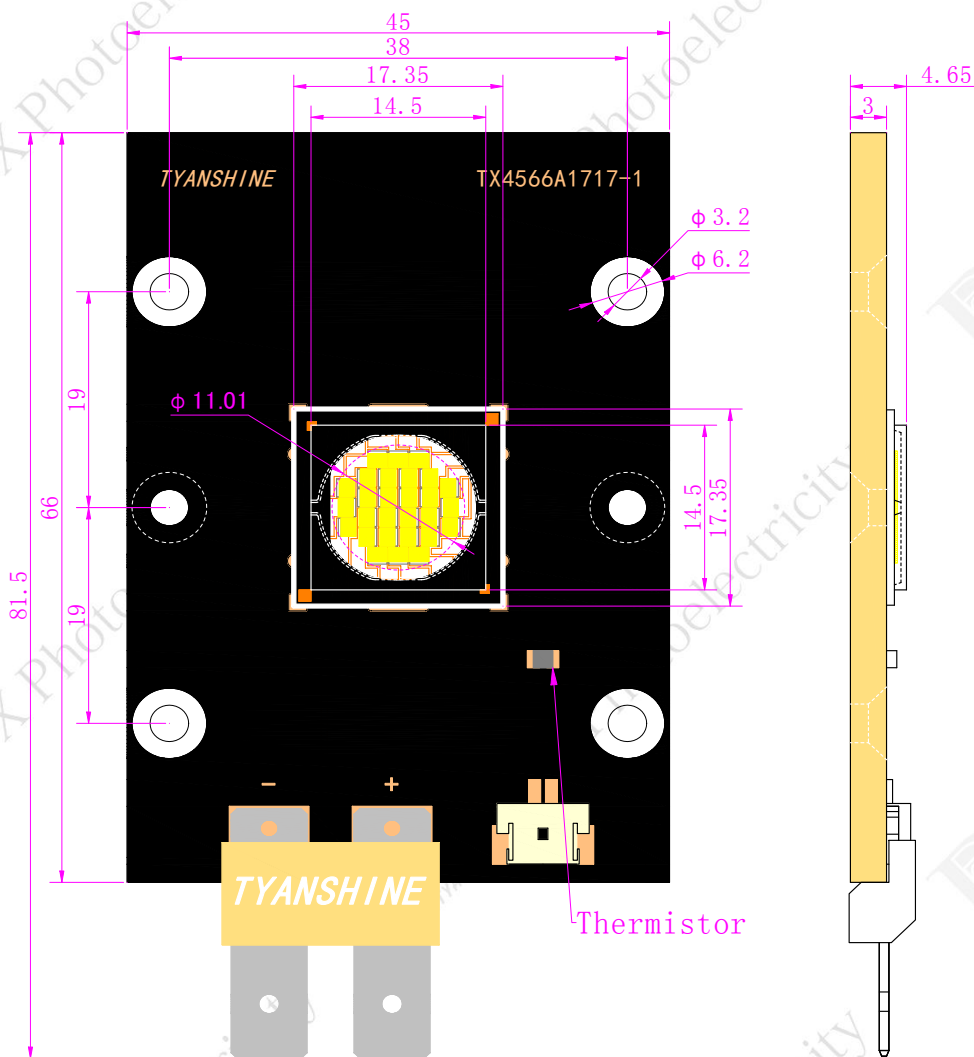
- ◆ White

### Applications:

- ◆ Stage lighting
- ◆ Landscape Lighting

Part No.	TX-4566W400FC120-NUVENG-A01	Spec No.	WKF-BE0422	Page	1 of 8
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### Package Dimensions:



### Notes:

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

### Absolute Maximum Ratings (Tc=25°C)

Parameter	Symbol	Ratings	Unit
Forward Current	IF	9000	mA
Reverse Voltage	VR	Not designed for reverse operation	V
Power Dissipation	PD	400	W
Junction Temperature	Tj	150	°C
Electrostatic Discharge Threshold (ESD)	ESD	2000	V
Storage Temperature	Tstg	-40~+70	°C
Operation Temperature	Topr	-40~+100	

**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.

## Electrical Optical Characteristics

Parameter	Symbol	Condition	Min.	Typ.	Max.	Units
Luminous Flux	$\phi_v$	If=9A Tc=25°C	23500	29450	—	lm
		If=9A Tc=85°C	18000	22000	—	
Forward Voltage	$V_f$	If=9A Tc=25°C	41	43	45	V
		If=9A Tc=85°C	40	42.5	44	
Correlated Colour Temperature	CCT	If=9A Tc=25°C	6000	7500	9500	K
		If=9A Tc=85°C	6500	8000	9500	
Viewing Angle at 50% IV	$2\theta_{1/2}$	If=9A	—	115	—	Deg
Reverse Current	$I_R$	—	—	—	—	$\mu A$
Thermal Resistance Junction to Case	$R_{\theta J-C}$	If=9A	—	0.14	—	K/W
Temperature Coefficient of Voltage	$V\Delta F/T$		—	-2	—	mV/°C
Thermistor(NTC)	Rt25	—	—	10	—	K $\Omega$

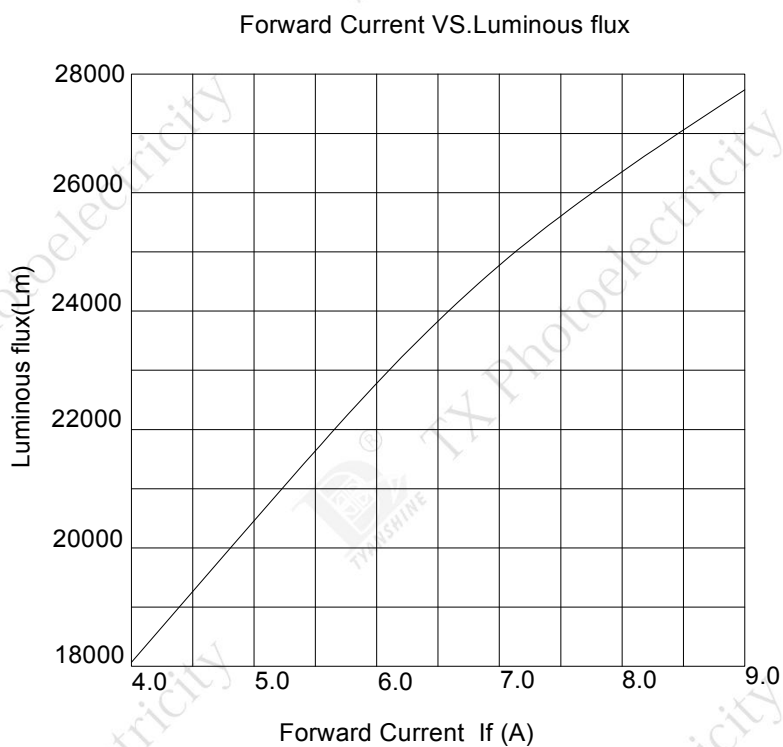
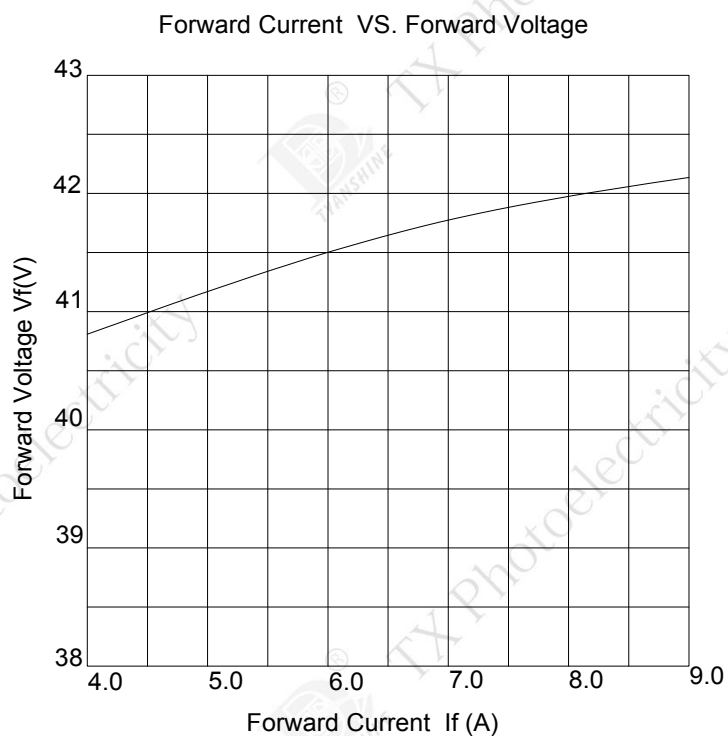
### Notes:

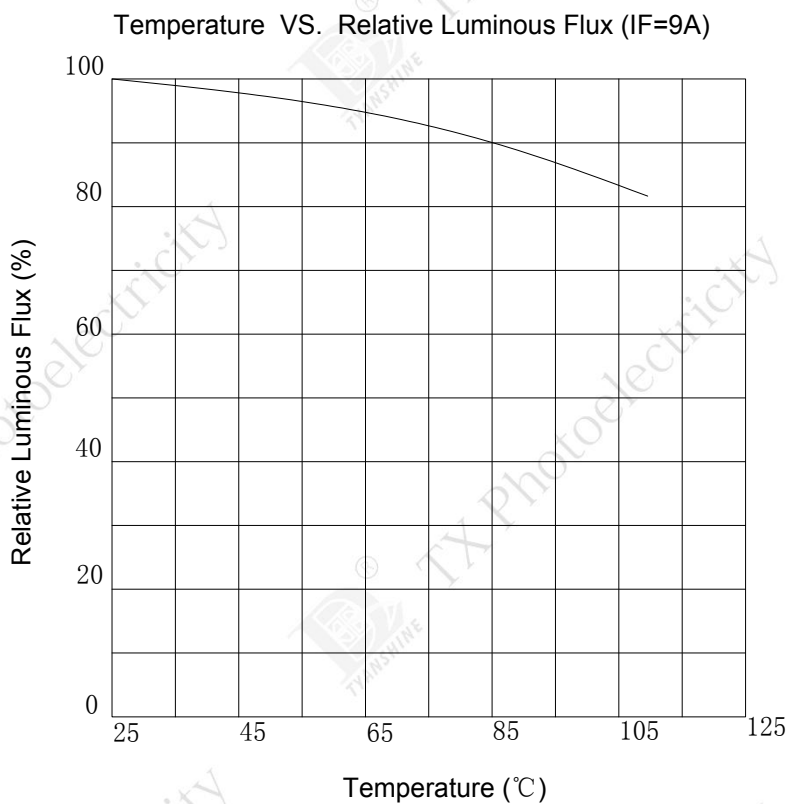
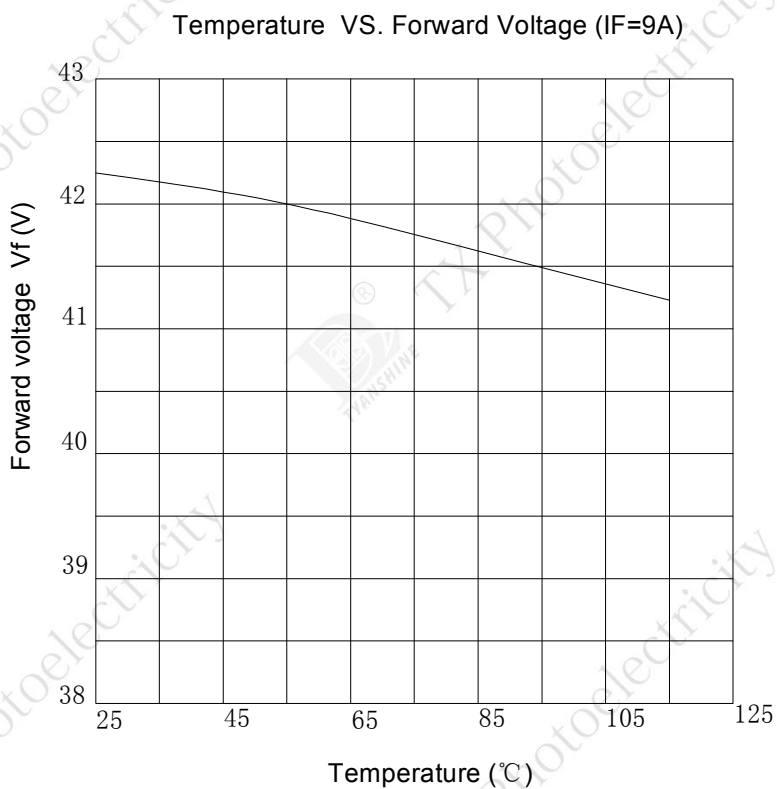
- Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- $\theta_{1/2}$  is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- The dominant wavelength ( $\lambda_d$ ) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.
- Luminous flux measurement tolerance:  $\pm 15\%$ .
- Forward voltage measurement tolerance:  $\pm 0.15V$ .

Part No.	TX-4566W400FC120-NUVENG-A01	Spec No.	WKF-BE0422	Page	4 of 8
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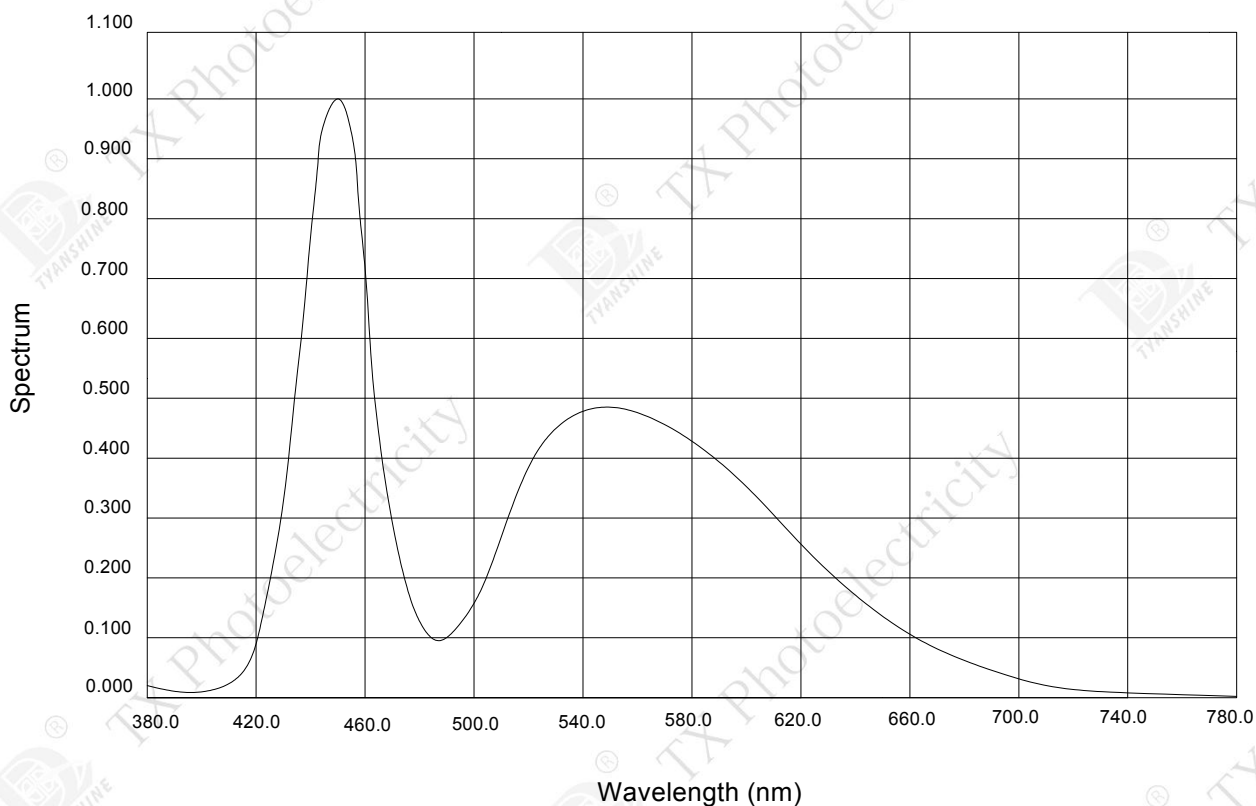
## Typical Electrical/Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)



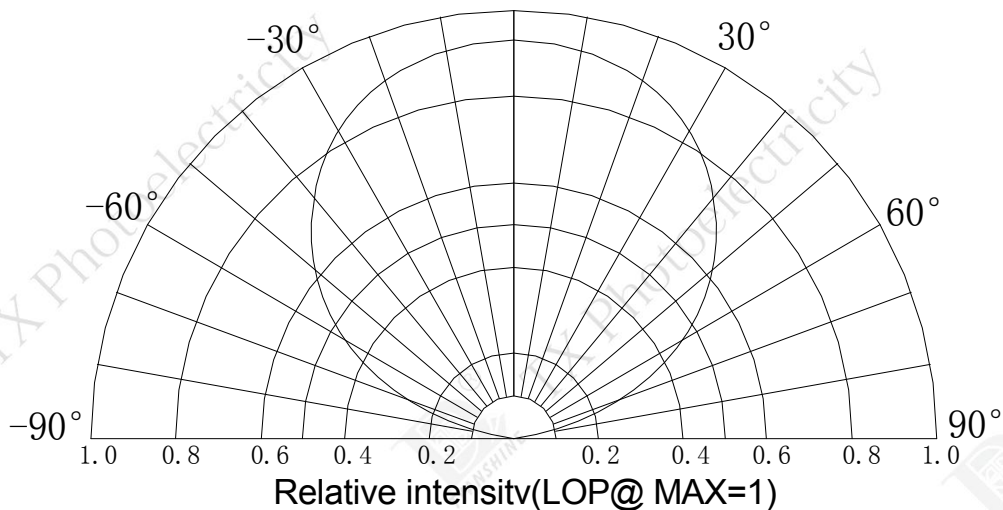


Relative Spectral Distribution



Beam Patter

0°



**Notes:**

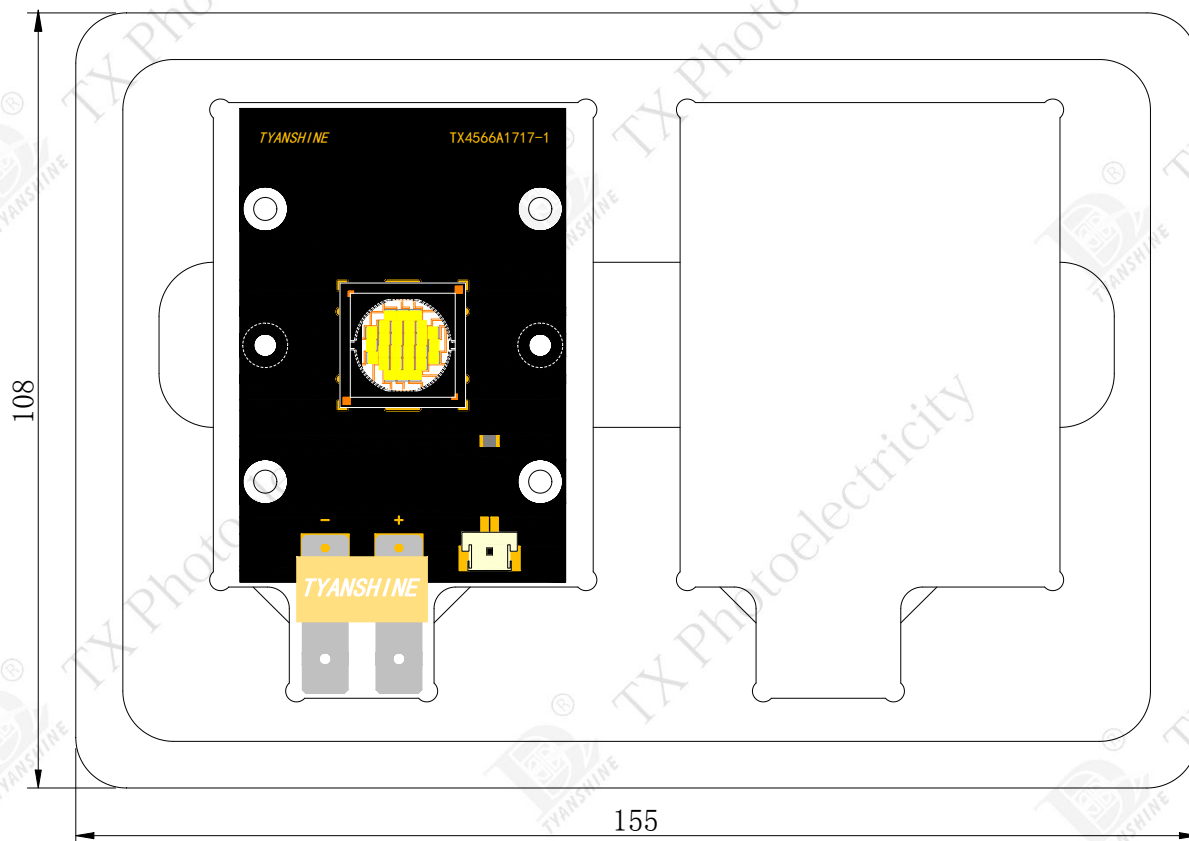
1. 2θ 1/2 is the off axis angle from lamp centerline where the luminous intensity is 1/2 of the peak value.
2. View angle tolerance is ± 5°.

Part No.	TX-4566W400FC120-NUVENG-A01	Spec No.	WKF-BE0422	Page	7 of 8
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## Dimensions For Cannulation And Packaging

Quantity: 2PCS



### 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.