

# Preliminary

## TX-5266W250FC120-NUVENG-A02B DATA SHEET

Approved by:

Checked by:

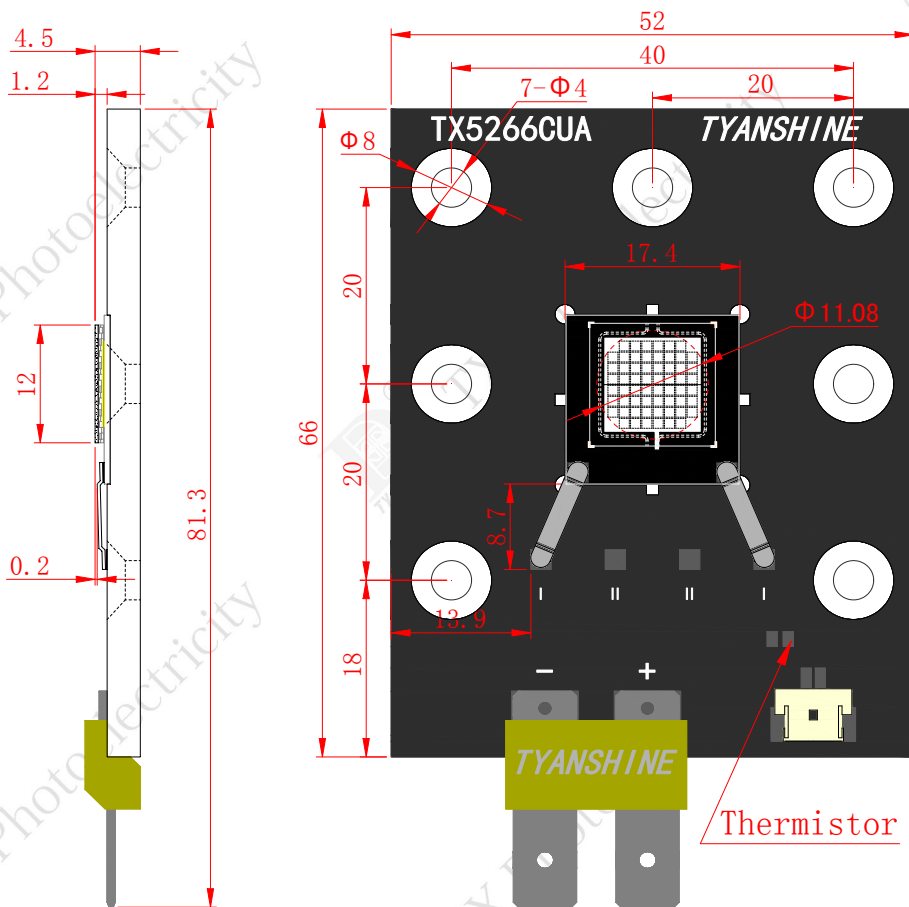
Prepared by:

<b>Part No.</b>	TX-5266W250FC120-NUVENG-A02B	<b>Spec No.</b>	WKF-BE0391	<b>Page</b>	1 of 7
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**Features:**

- ◆ Excellent Transiting Heat from LED Chip Operating under 6 A
- ◆ High Luminous Output
- ◆ No UV
- ◆ Light emitting area is small, power per unit area of up to 5W/mm<sup>2</sup>
- ◆ Three color and four color melange effect is superior to similar products on the light

**Package Dimensions:**



**Notes:**

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25$  mm (0.01") unless otherwise noted.

Part NO.	Lens Color	Emitting Color
TX-5266W250FC120-NUVENG-A02B	Water Clear	White

**Absolute Maximum Ratings at Ta=85°C**

Parameter	Symbol	MAX.	Unit
LED Junction Temperature	T <sub>j</sub>	150	°C
Power Dissipation	P <sub>D</sub>	250	W
Continuous Forward Current	I <sub>F</sub>	6	A
Reverse Voltage	V <sub>R</sub>	—	V
Electrostatic Discharge Threshold (ESD)	ESD	2000	V
Operating Temperature Range	T <sub>opr</sub>	-40 to +70	°C
Storage Temperature Range	T <sub>spr</sub>	-40 to +100	

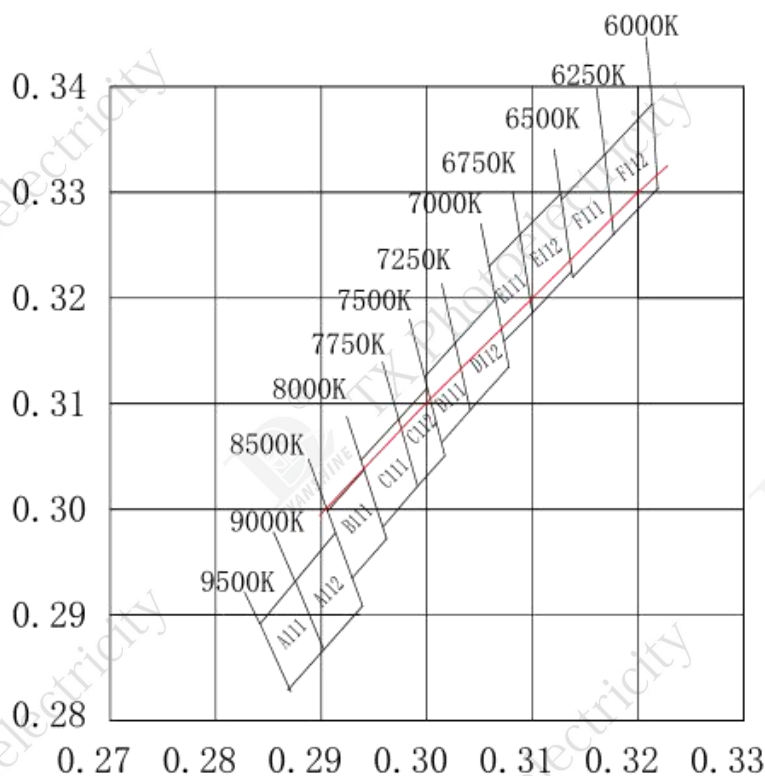
**Notes:**

1. Specifications are subject to change without notice.
2. Under the stipulated Characteristics parameters above, the life span of the LED is more than 50,000hours.
3. The data on this specification is for reference only and the actual data is in accordance with the acknowledgment.
4. 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.

**Characteristics at If= 6 A (Ta=85°C):**

Parameter	Symbol	Values			Units
		Min.	Typ.	Max.	
Luminous Flux	$\phi_v$	15000	17000	—	lm
Viewing Angle at 50 % IV	$2\theta_{1/2}$	—	115	—	Deg
Forward Voltage	$V_f$	35	38	40	V
Correlated Colour Temperature	CCT	6000	7500	9500	K
Reverse Current	$I_R$	—	—	—	$\mu A$
Thermal Resistance Junction to Case	$R\theta_{J-C}$	—	0.15	—	K/W
Temperature Coefficient of Forward Voltage	$V\Delta F/T$	—	-3	—	mV/°C
Color Rendering Index	Ra	—	—	—	—
Thermistor(NTC)	Rt25	—	10	—	K $\Omega$

**Product spectral parameters level table:**



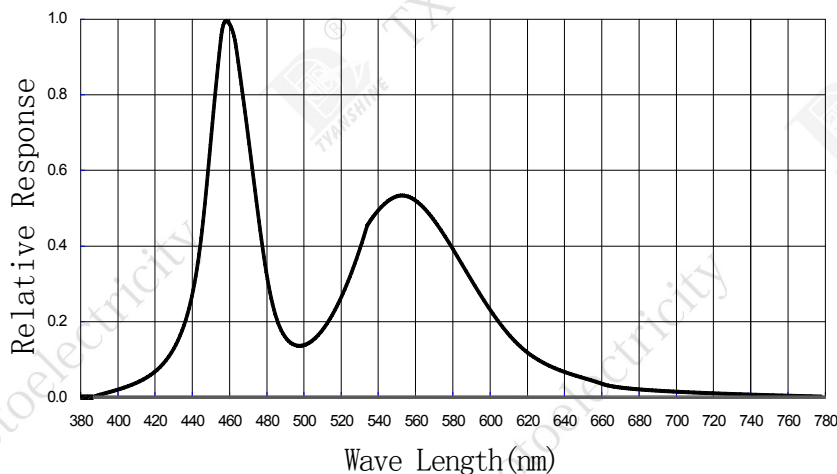
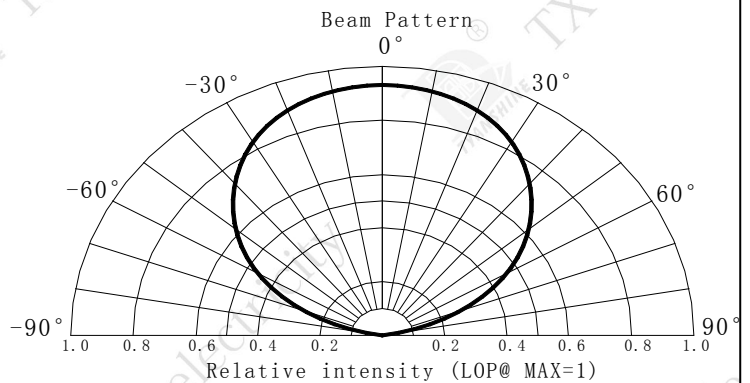
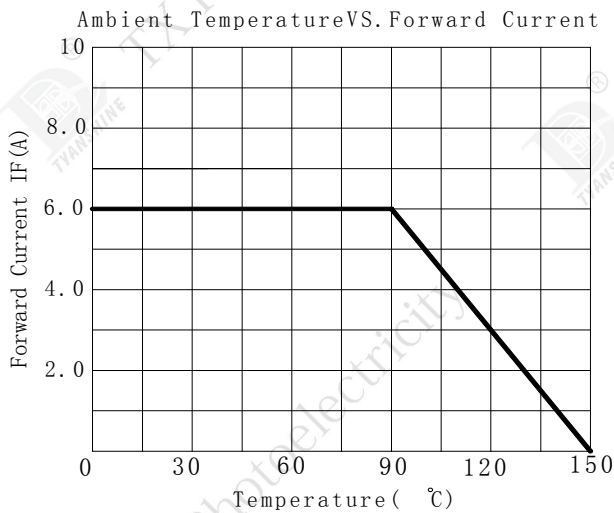
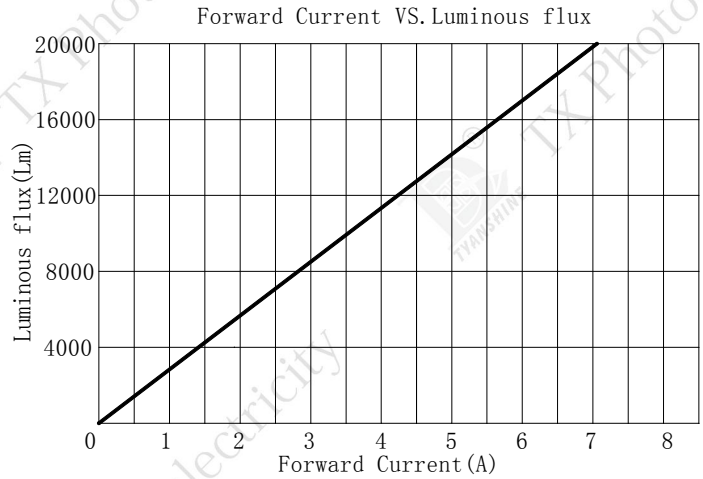
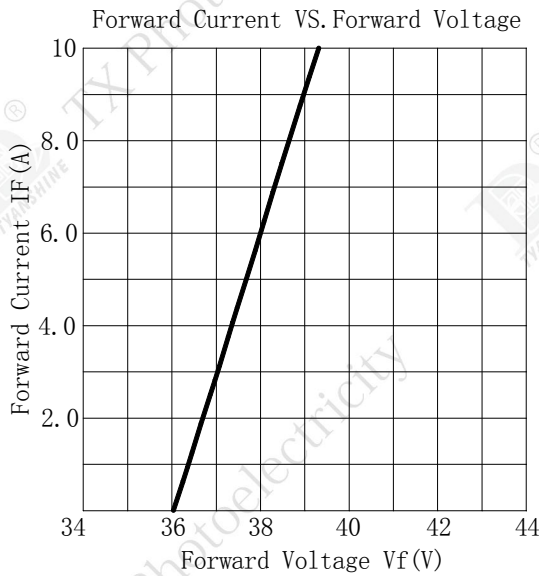
Grade	Colour temperature Tc(K)	X1		X2		X3		X4	
		X	Y	X	Y	X	Y	X	Y
F112	6000 - 6250	0.3218	0.3303	0.3214	0.3384	0.3168	0.3336	0.3177	0.3260
F111	6250 - 6500	0.3177	0.3260	0.3168	0.3336	0.3127	0.3293	0.3138	0.3220
E112	6500 - 6750	0.3137	0.3225	0.3127	0.3299	0.3088	0.3260	0.3100	0.3186
E111	6750 - 7000	0.3100	0.3186	0.3088	0.3260	0.3059	0.3230	0.3073	0.3159
D112	7000 - 7250	0.3078	0.3135	0.3065	0.3199	0.3027	0.3157	0.3041	0.3094
D111	7250 - 7500	0.3041	0.3094	0.3027	0.3157	0.2998	0.3125	0.3014	0.3063
C112	7500 - 7750	0.3017	0.3051	0.3000	0.3115	0.2973	0.3085	0.2991	0.3022
C111	7750 - 8000	0.2991	0.3022	0.2973	0.3085	0.2938	0.3046	0.2958	0.2983
B111	8000- 8500	0.2962	0.2972	0.2941	0.3037	0.2906	0.2998	0.2929	0.2935
A112	8500 - 9000	0.2939	0.2906	0.2913	0.2978	0.2875	0.2932	0.2902	0.2867
A111	9000 -9500	0.2875	0.2932	0.2902	0.2867	0.2870	0.2831	0.2842	0.2892

**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. The dominant wavelength ( $\lambda_d$ ) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.
4. Flux is measured with an accuracy of  $\pm 15\%$ .
5. Forward voltage is measured with an accuracy of  $\pm 0.15V$ .
6. CCT selection acc. to CCT groups and an accuracy of  $\pm 300K$ .

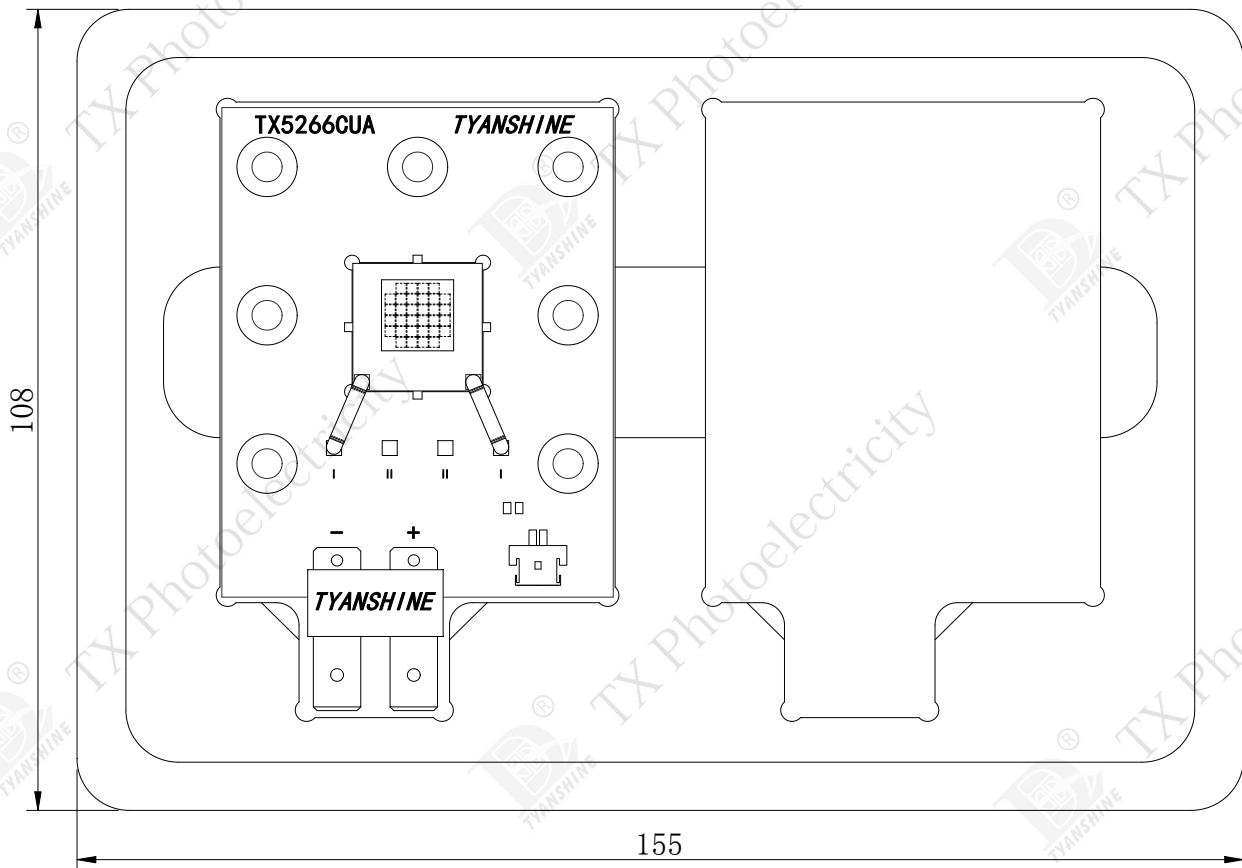
## Typical Electrical / Optical Characteristics Curves

(85°C Ambient Temperature Unless Otherwise Noted)



## Dimensions for Cannulation and Packaging

Quantity: 2 PCS



### Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 2.0$  mm (0.08") unless otherwise noted.
3. Product is packaged with glass cover to protect the light-emitting zone. Please avoid the light-emitting area from being pressed, stressed, rubbed, come into contact with sharp metal part which would damage the product.