

# TX-2020W30FC120-NUFEZW-B01A

## PRODUCT SPECIFICATION

### Features:

- ◆ Excellent transiting heat from LED chip operating under 1.8A.
- ◆ High luminous output.
- ◆ No UV.
- ◆ Encapsulated materials are environmentally certified and meet environmental requirements.

### Chip Material:

- ◆ GaInN

### Emitting Color:

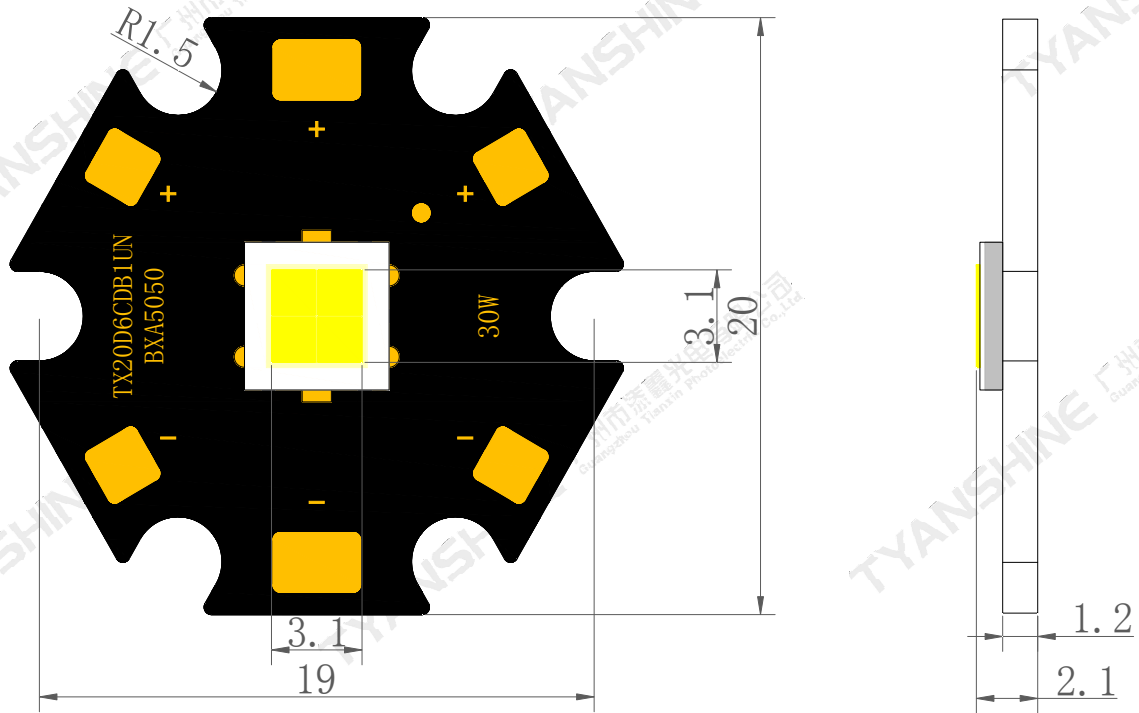
- ◆ white

### Applications:

- ◆ Auxilliary lighting
- ◆ Architectural lighting

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Package Dimensions:



Notes:

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

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

Parameter	Symbol	Ratings	Unit
Forward Current	IF	2.0	A
Reverse Voltage	VR	Not designed for reverse operation	V
Power Dissipation	PD	27	W
Junction Temperature	Tj	150	°C
Electrostatic Discharge Threshold (ESD)	ESD	2000	V
Storage Temperature	Tstg	-20~+70	°C
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.

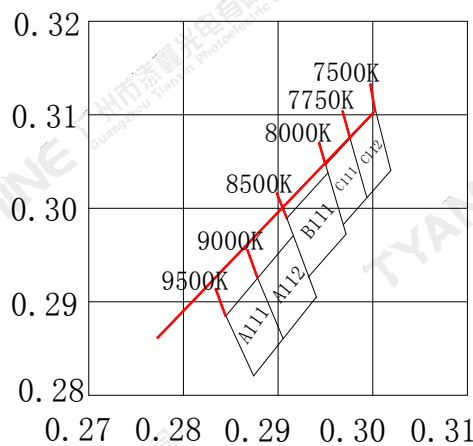
**Electrical Optical Characteristics (Tc=25°C)**

Parameter	Symbol	Condition	Min.	Typ.	Max.	Units
Luminous Flux	$\phi_v$	If=1.8A	1950	2200	2500	lm
Correlated Colour Temperature	CCT	If=1.0A	7500	—	9500	K
Forward Voltage	$V_f$	If=1.8A	11	13.5	16	V
Viewing Angle at 50% IV	$2\theta_{1/2}$	If=1.8A	—	120	—	Deg
Reverse Current	$I_R$	If=1.8A	—	—	—	$\mu A$
Thermal Resistance Junction to Case	$R\theta_{J-C}$	—	—	0.54	—	K/W
Temperature Coefficient of Voltage	$V\Delta F/T$	If=1.8A	—	-4.1	—	mV/°C
Thermistor(NTC)	Rt25	—	—	10	—	K $\Omega$

**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.

**White light Color coordinate filing (If=1.0A , Tc=25°C)**

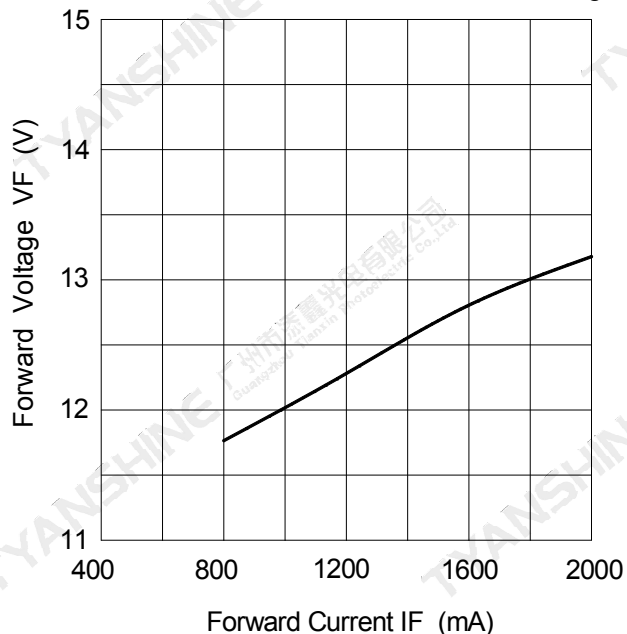


Grade	TC	P1		P2		P3		P4	
		X1	Y1	X2	Y2	X3	Y3	X4	Y4
C112	7500-7750K	0.3003	0.3105	0.3019	0.3041	0.2994	0.3011	0.2976	0.3075
C111	7750-8000K	0.2976	0.3075	0.2994	0.3011	0.2969	0.2982	0.295	0.3046
B111	8000-8500K	0.2953	0.3038	0.2972	0.2972	0.2932	0.2927	0.2909	0.2989
A112	8500-9000K	0.2916	0.2971	0.294	0.2905	0.2905	0.286	0.2878	0.2925
A111	9000-9500K	0.2878	0.2925	0.2905	0.286	0.2874	0.2821	0.2845	0.2885

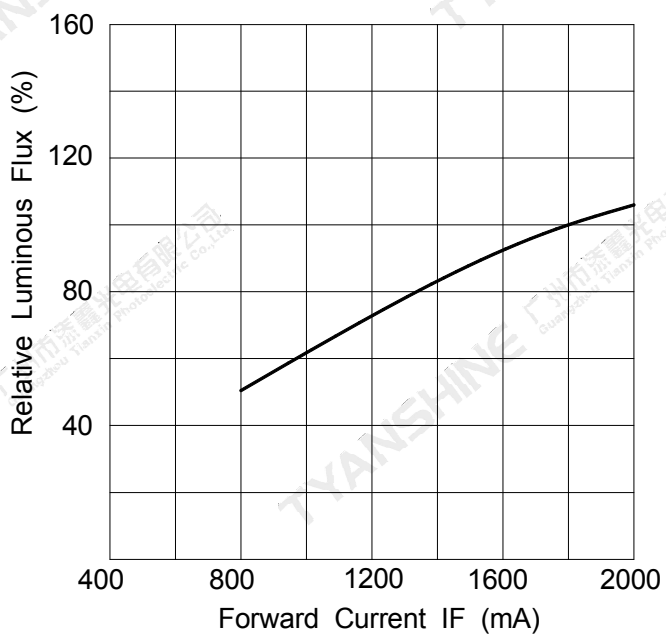
## Typical Electrical/Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

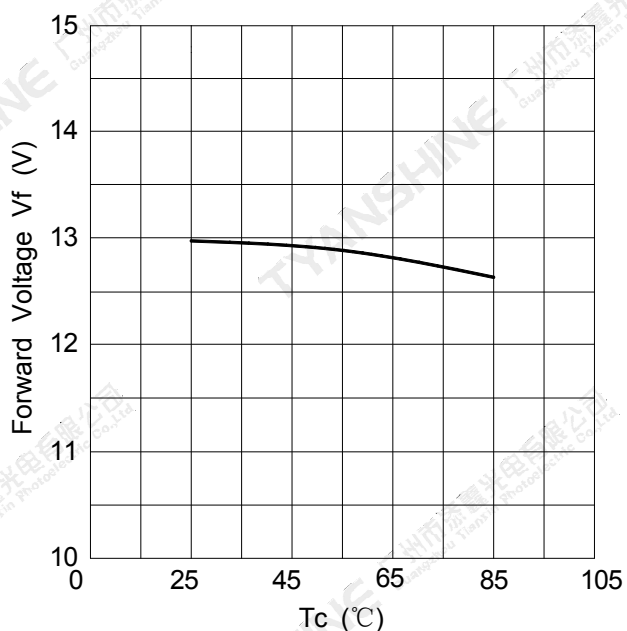
Forward Current VS. Relative Forward Voltage



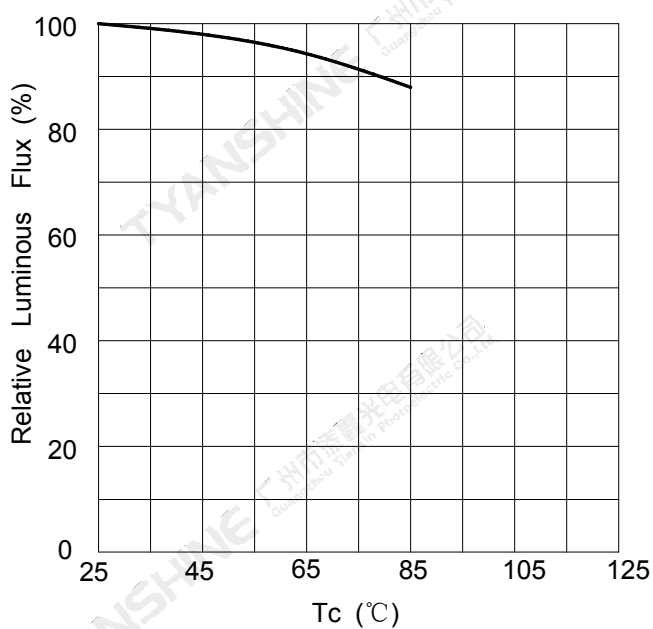
Forward Current VS. Relative Luminous Flux

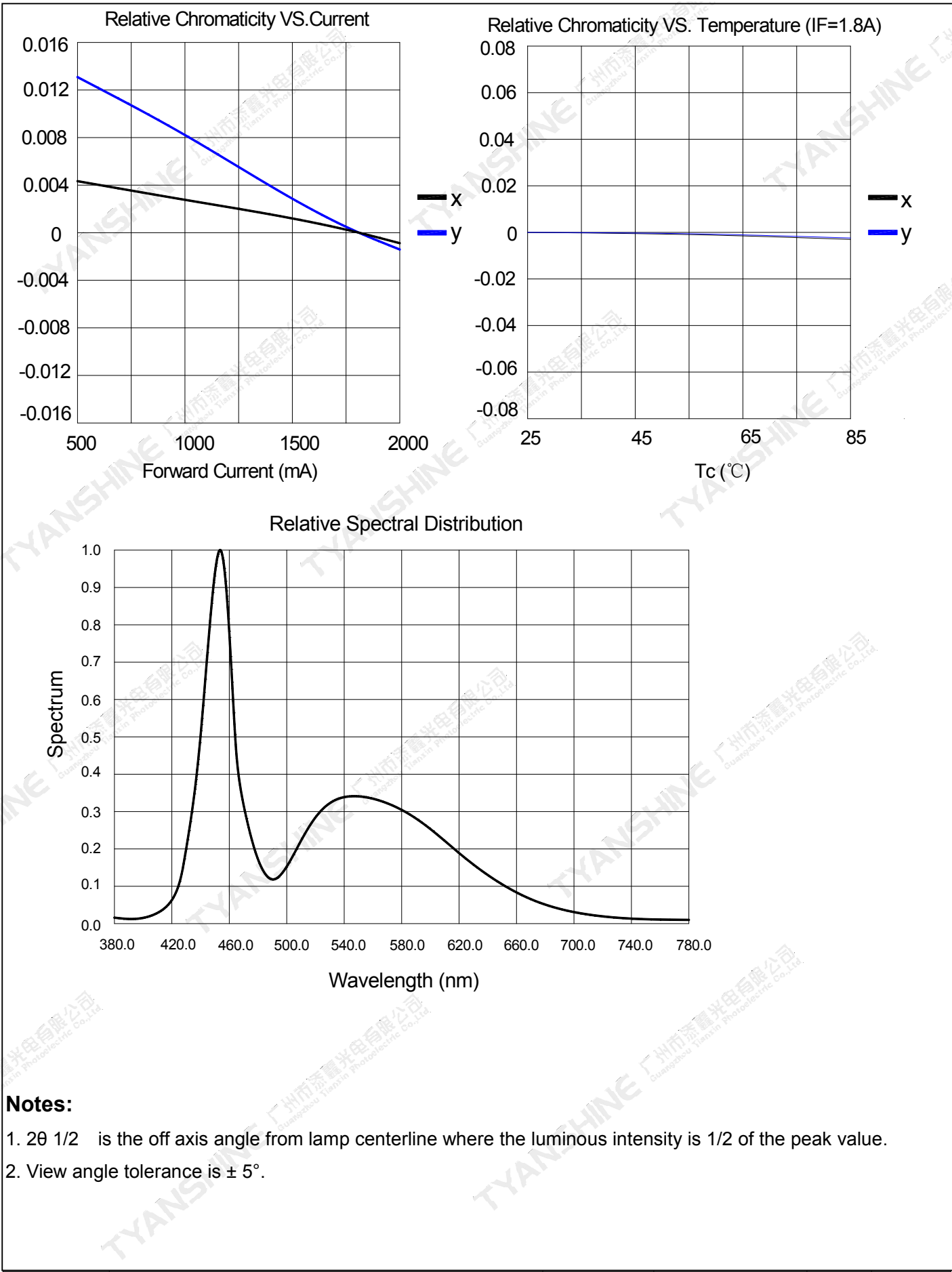


Temperature VS. Forward Voltage Vf (IF=1.8A)



Temperature VS. Relative Luminous Flux (IF=1.8A)





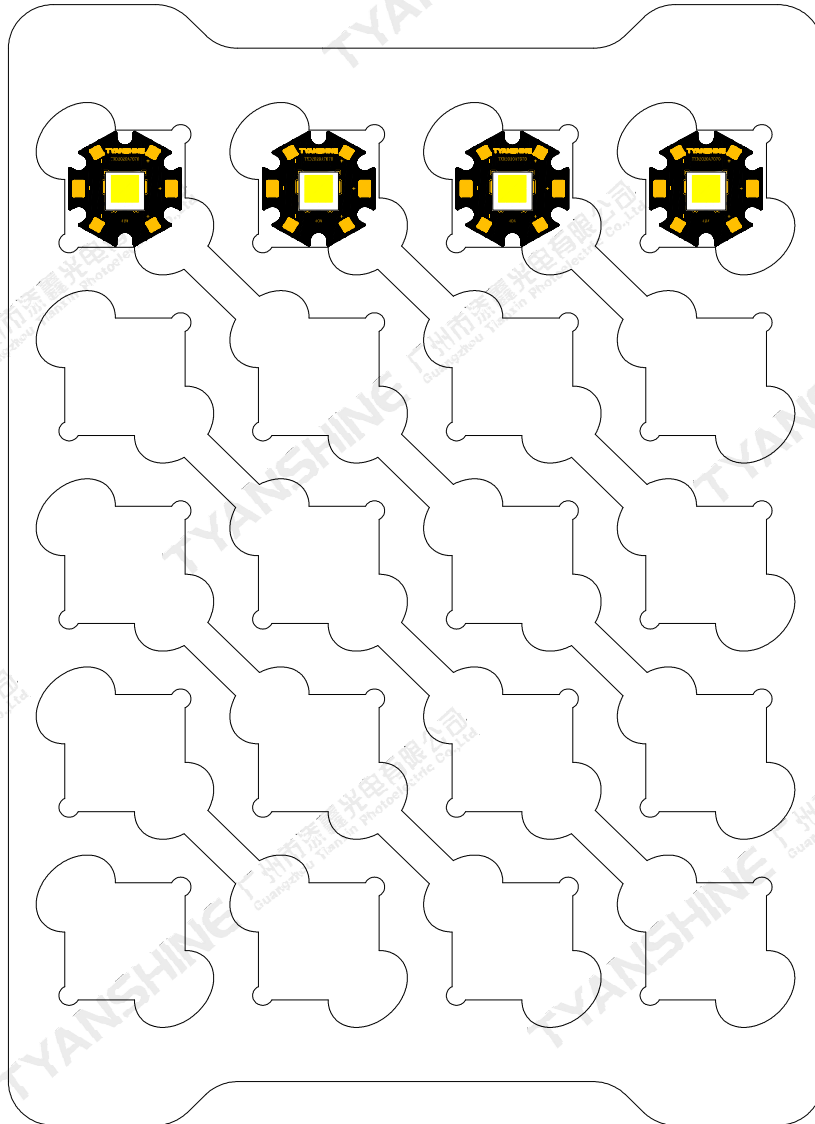
**Notes:**

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  $\pm 5^\circ$ .

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**Dimensions For Cannulation And Packaging**

**Quantity:20 PCS**



**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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