

TX-20D6W20FC120-NUFENW-A01

PRODUCT SPECIFICATION

Features:

- ◆Excellent transiting heat from LED chip operating under 1.5A.
- ◆High luminous output.
- ◆No UV.
- ◆Encapsulated materials are environmentally certified and meet environmental requirements.

Chip Material:

- ◆GaInN

Emitting Color:

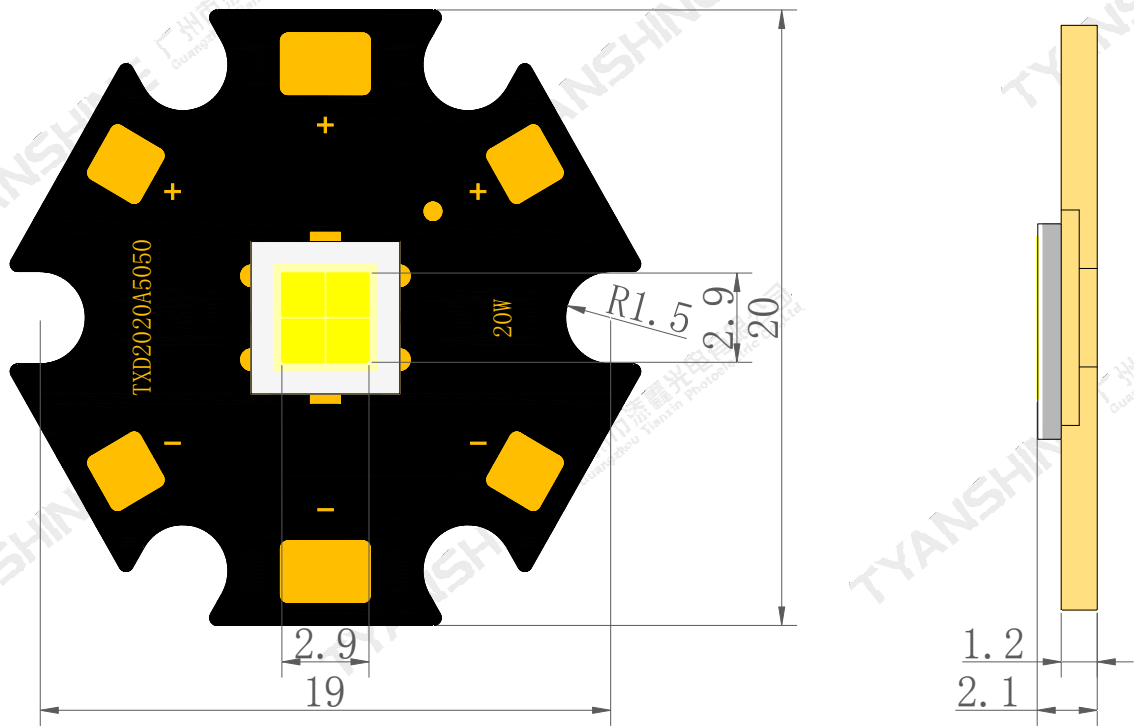
- ◆white

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	1.6	A
Reverse Voltage	V _R	Not designed for reverse operation	V
Power Dissipation	P _D	20	W
Junction Temperature	T _j	150	℃
Electrostatic Discharge Threshold (ESD)	ESD	2000	V
Storage Temperature	T _{stg}	-20~+70	℃
Operation Temperature	T _{opr}	-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.

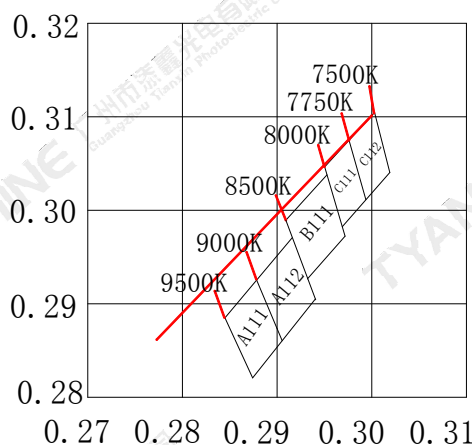
Electrical Optical Characteristics (Tc=25°C)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Units
Luminous Flux	ϕ_v	If=1.5A	1750	—	1950	lm
Correlated Colour Temperature	CCT	If=1.0A	7500	—	9500	K
Forward Voltage	V_f	If=1.5A	11	12.5	14	V
Viewing Angle at 50 % IV	$2\theta_{1/2}$	If=1.5A	—	120	—	Deg
Reverse Current	I_R	If=1.5A	—	—	—	μA
Thermal Resistance Junction to Case	$R\theta_{J-C}$	—	—	0.28	—	K/W
Temperature Coefficient of Voltage	$V \Delta F/T$	If=1.5A	—	-6.0	—	mV/°C
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 (Tc=25°C)



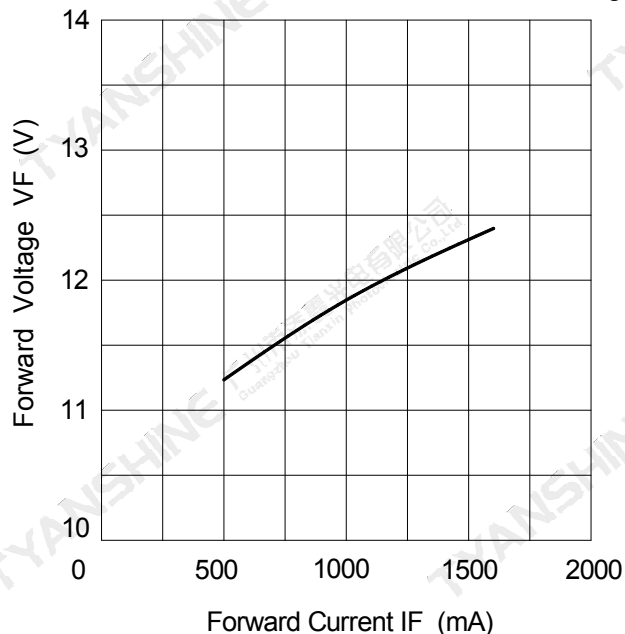
Grade	TC	P1		P2		P3		P4	
		X1	Y1	X2	Y2	X3	Y3	X4	Y4
C112	7500-7750K	0.3003	0.3105	0.3019	0.3041	0.2994	0.3011	0.2976	0.3075
C111	7750-8000K	0.2976	0.3075	0.2994	0.3011	0.2969	0.2982	0.295	0.3046
B111	8000-8500K	0.2953	0.3038	0.2972	0.2972	0.2932	0.2927	0.2909	0.2989
A112	8500-9000K	0.2916	0.2971	0.294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

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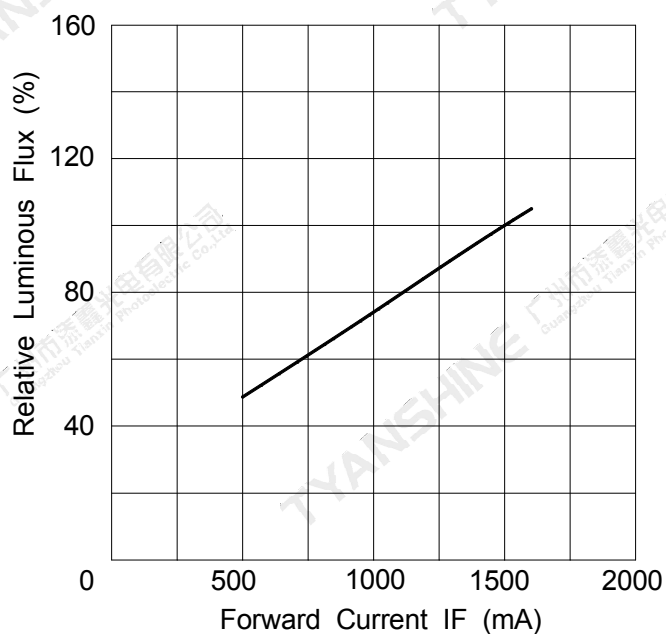
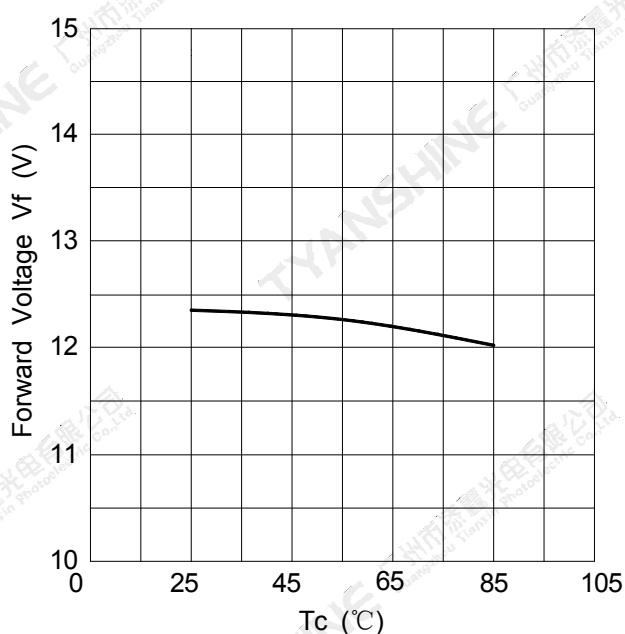
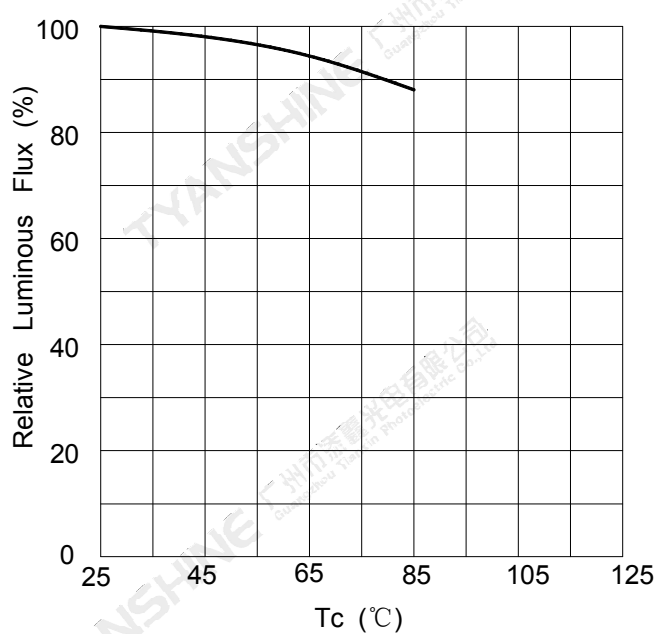
Typical Electrical/Optical Characteristics Curves

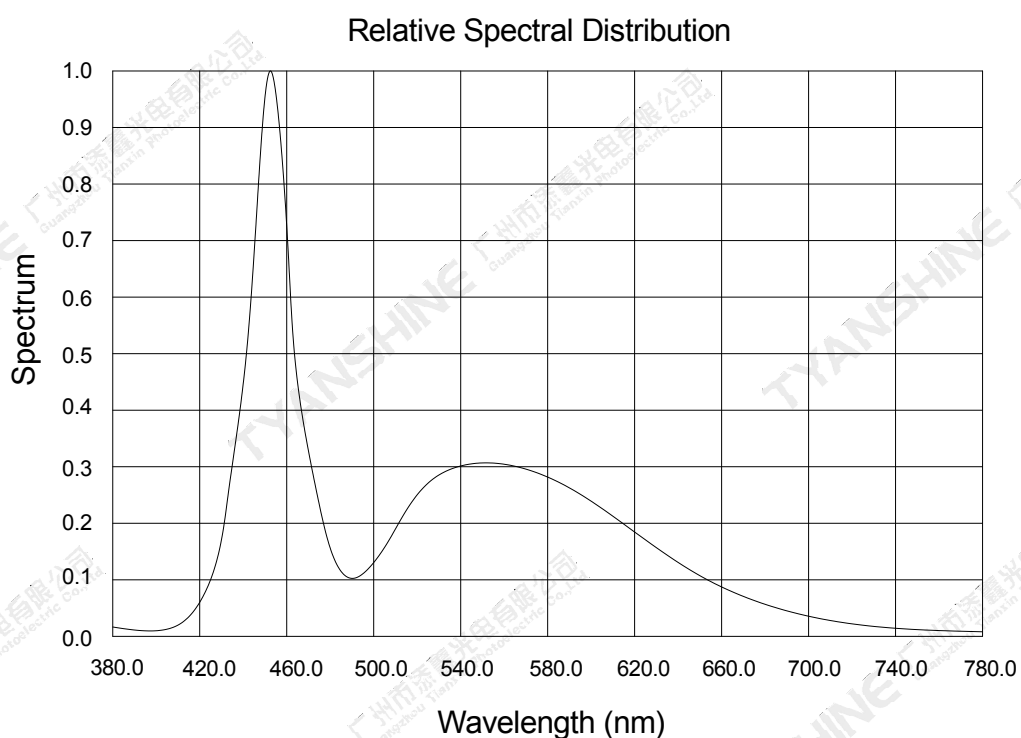
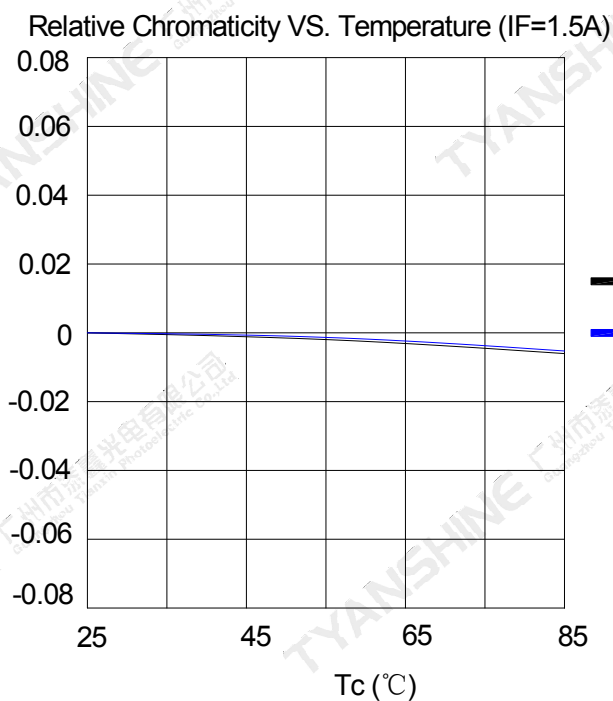
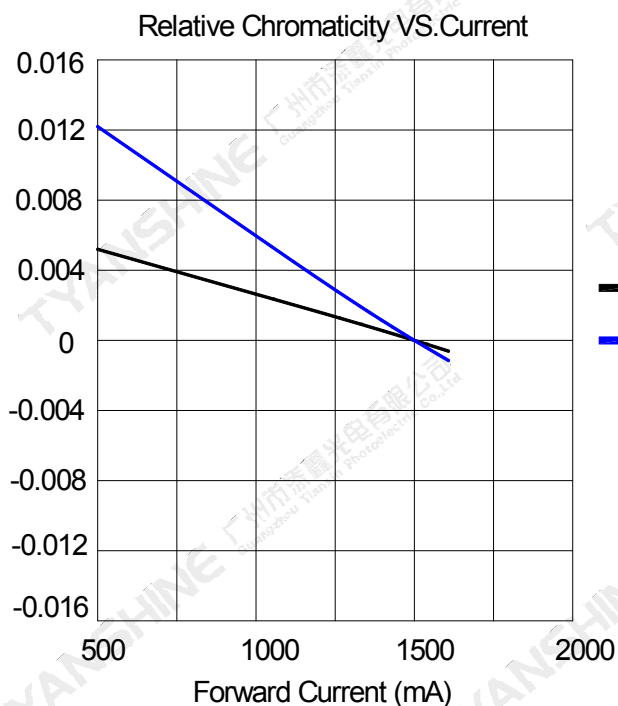
(25°C Ambient Temperature Unless Otherwise Noted)

Forward Current VS. Relative Forward Voltage



Forward Current VS. Relative Luminous Flux

Temperature VS. Forward Voltage V_f ($I_F=1.5A$)Temperature VS. Relative Luminous Flux ($I_F=1.5A$)



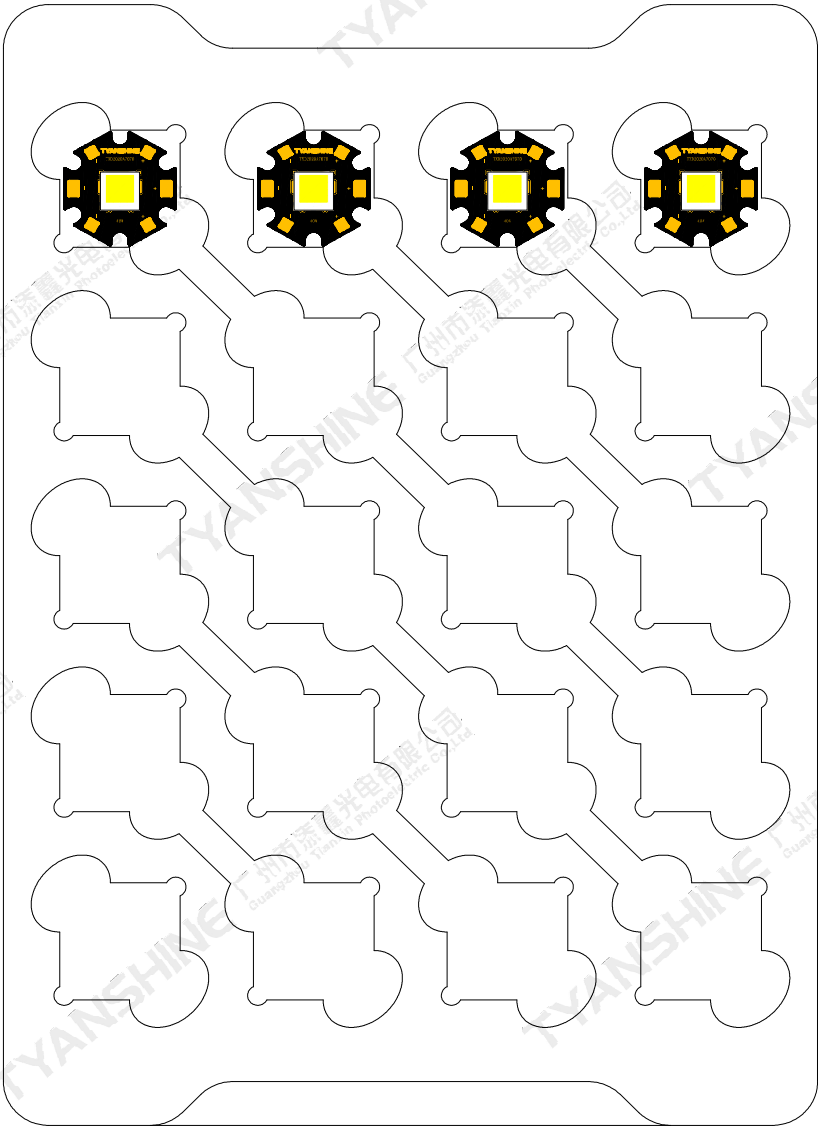
Notes:

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 ± 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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