TX-2828W200D180CUY-B01H95

PRODUCT SPECIFICATION
(R&D version)

Features:

◆Excellent transiting heat from LED chip operating under 6.0A.

◆High luminous output.

◆Encapsulated materials are environmentally certified and meet environmental requirements.

Chip Material:

◆ GaN

Emitting Color:

◆White

Applications:

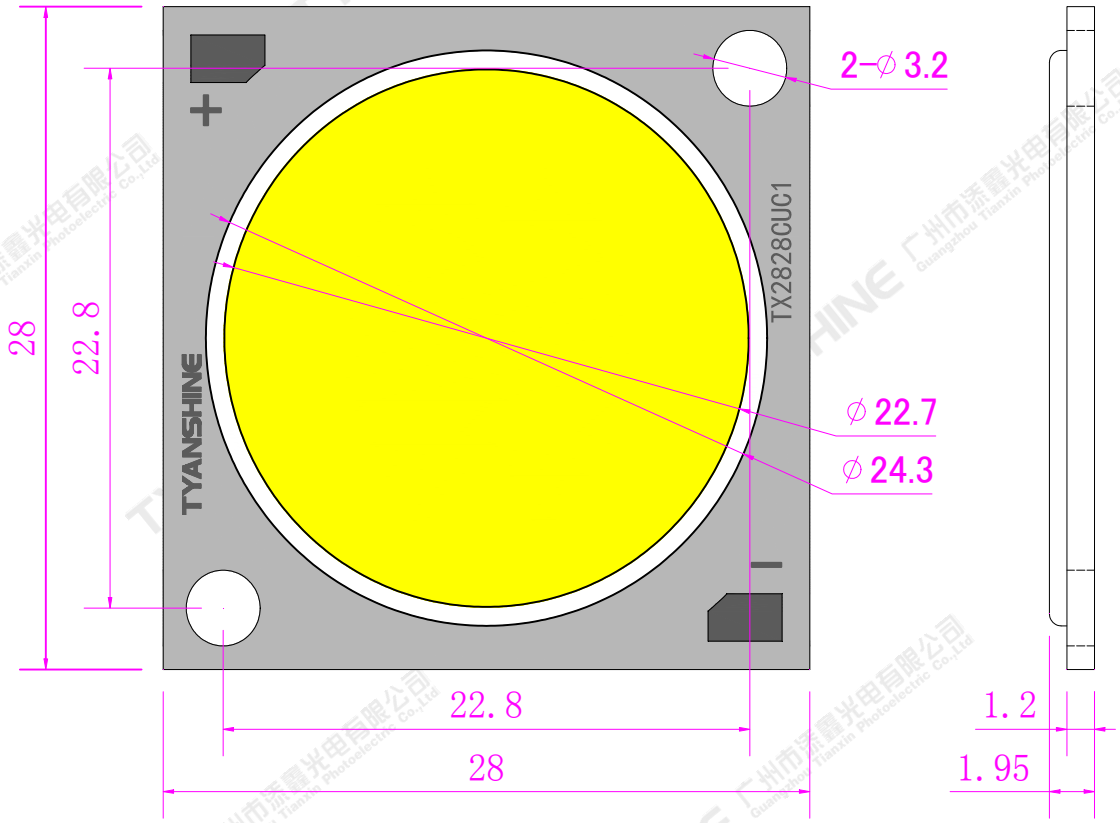
◆Stage lighting

◆Architectural lighting

◆Projection lighting

◆Medical lighting

Package Dimensions:



Notes:

1.All dimensions are in millimeters .

2.Tolerances unless otherwise mentioned are ±0.1mm .

Absolute Maximum Ratings

Parameter	Symbol	Max Ratings	Unit
Forward Current	IF	6.0	A
Reverse Voltage	V_R	Not designed for reverse operation	V
Power Dissipation	P_D	234	W
Junction Temperature	Tj	150	℃
Electrostatic Discharge Threshold (ESD)	ESD	2000	V
Storage Temperature	T_{stg}	-40~70	℃
Operation Temperature	T_{opr}	-30~100	

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

Parameter	Symbol	Condition	Min.	Typ.	Max.	Units
Luminous Flux	φv	If=5.5A (Tc=25℃)	15500	17000	—	lm
		If=5.5A (Tc=85℃)	13300	14600	—	
Correlated Colour Temperature	CCT	If=5.5A (Tc=25℃)	5400	5600	5800	K
		If=5.5A (Tc=85℃)	5600	5800	6100	
Forward Voltage	Vf	If=5.5A (Tc=25℃)	33	34.5	36	V
		If=5.5A (Tc=85℃)	32.5	34	35.5	
Reverse Current	IR	—	—	—	—	μA
Viewing Angle at 50％IV	2θ1/2	—	—	115	—	Deg
Thermal Resistance Junction to Case	RθJ-C	—	—	0.08	—	K/W
Temperature Coefficient of Voltage	V△F/T	If=5.5A	—	-12.4	—	mV/℃
Color Rendering Index	Ra	If=5.5A (Tc=85℃)	95	97	—	—
Thermistor(NTC)	Rt25	—	—	10	—	KΩ

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.

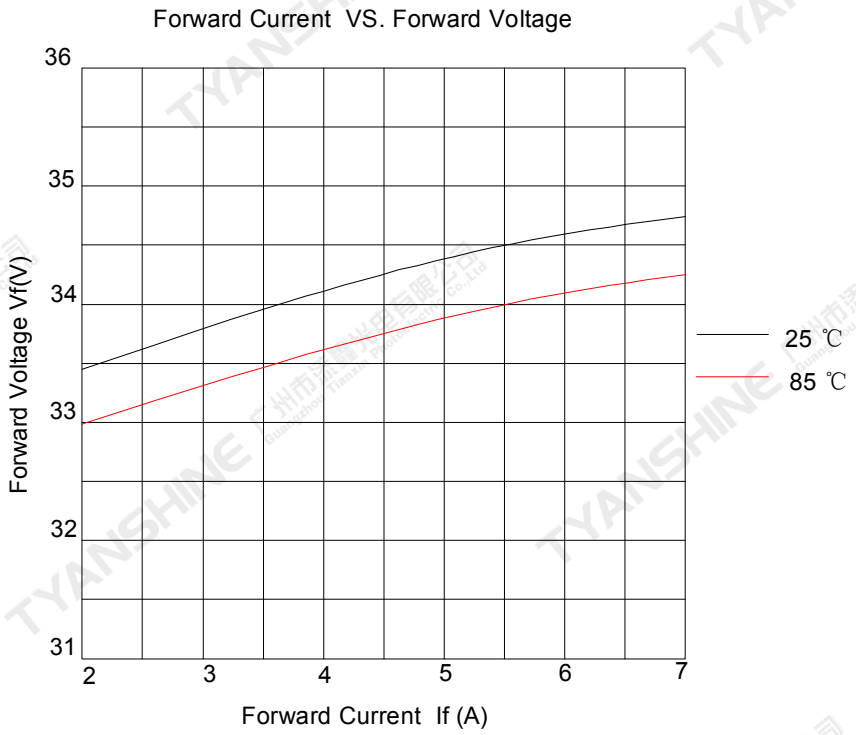
3.The dominant wavelength (λd) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

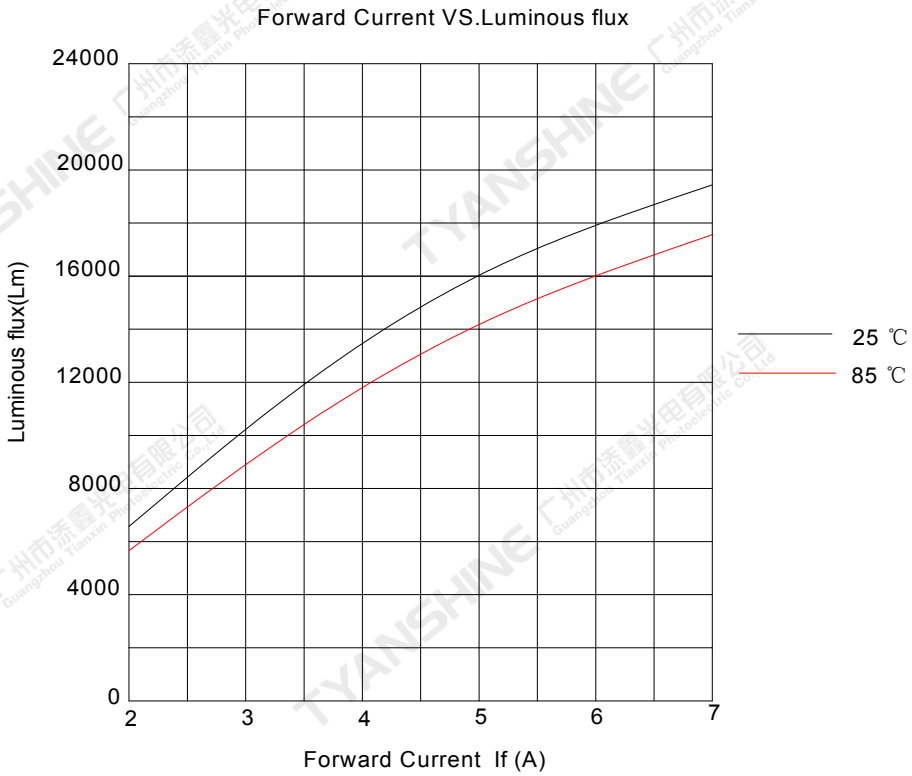
4.Luminous flux measurement tolerance:±15%.

5.Forward voltage measurement tolerance:±0.15V.

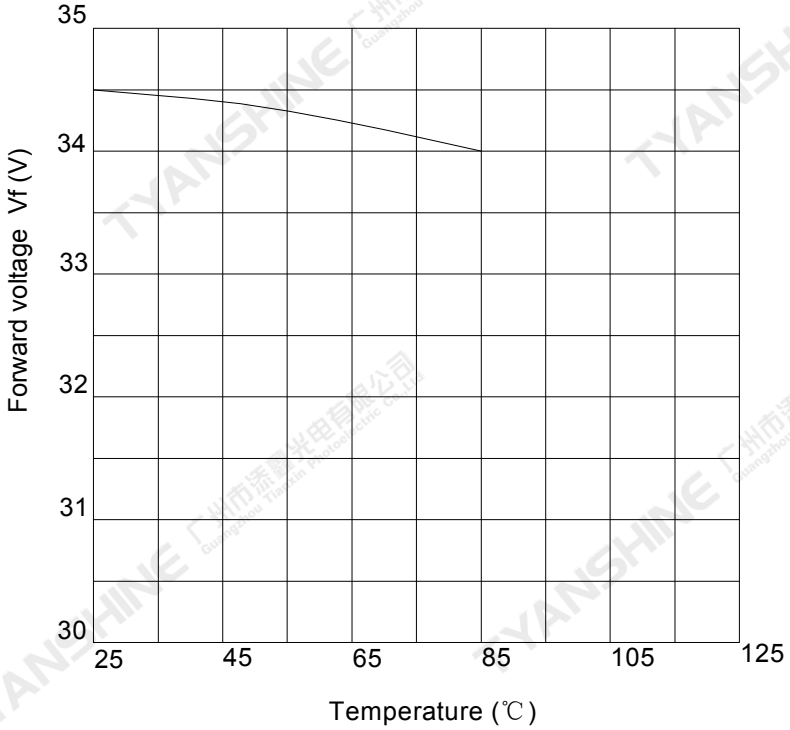
Typical Electrical/Optical Characteristics Curves

(25℃ Ambient Temperature Unless Otherwise Noted)

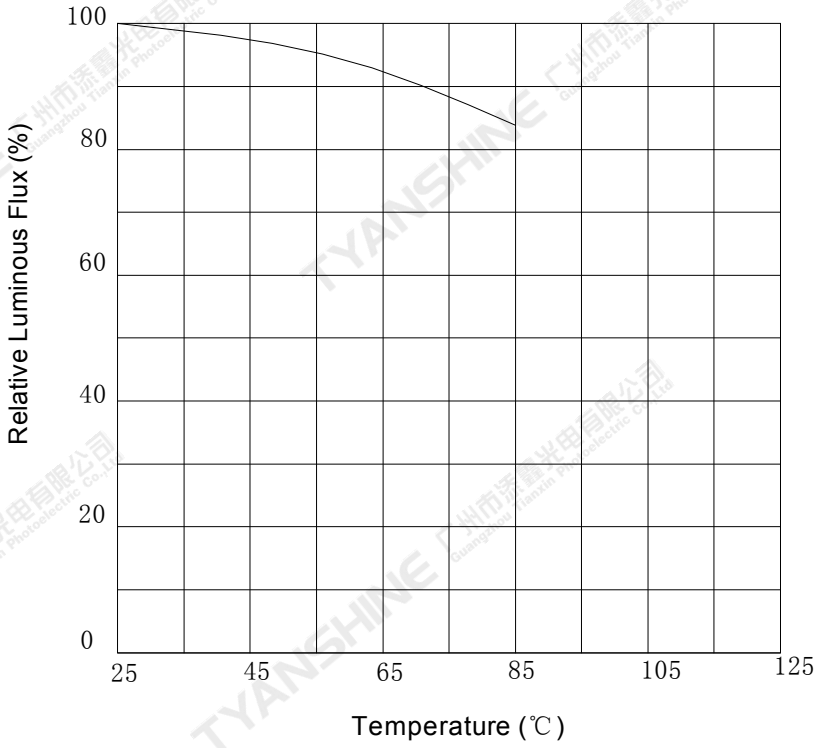


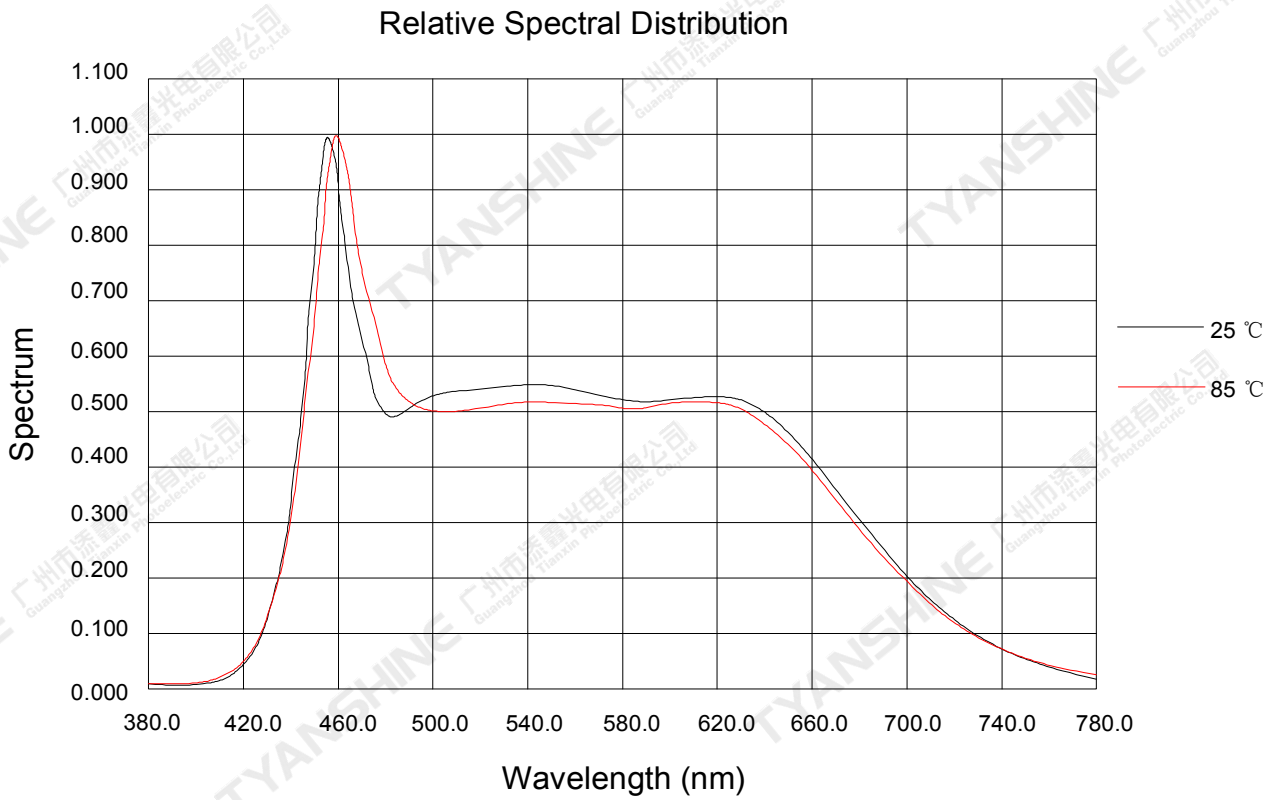


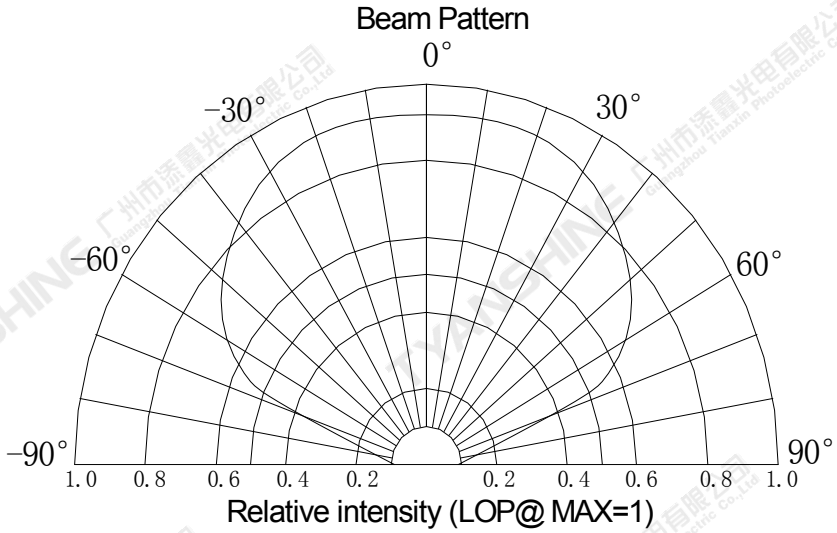
Temperature VS. Forward Voltage (IF=5.5A)



Temperature VS. Relative Luminous Flux (IF=5.5A)





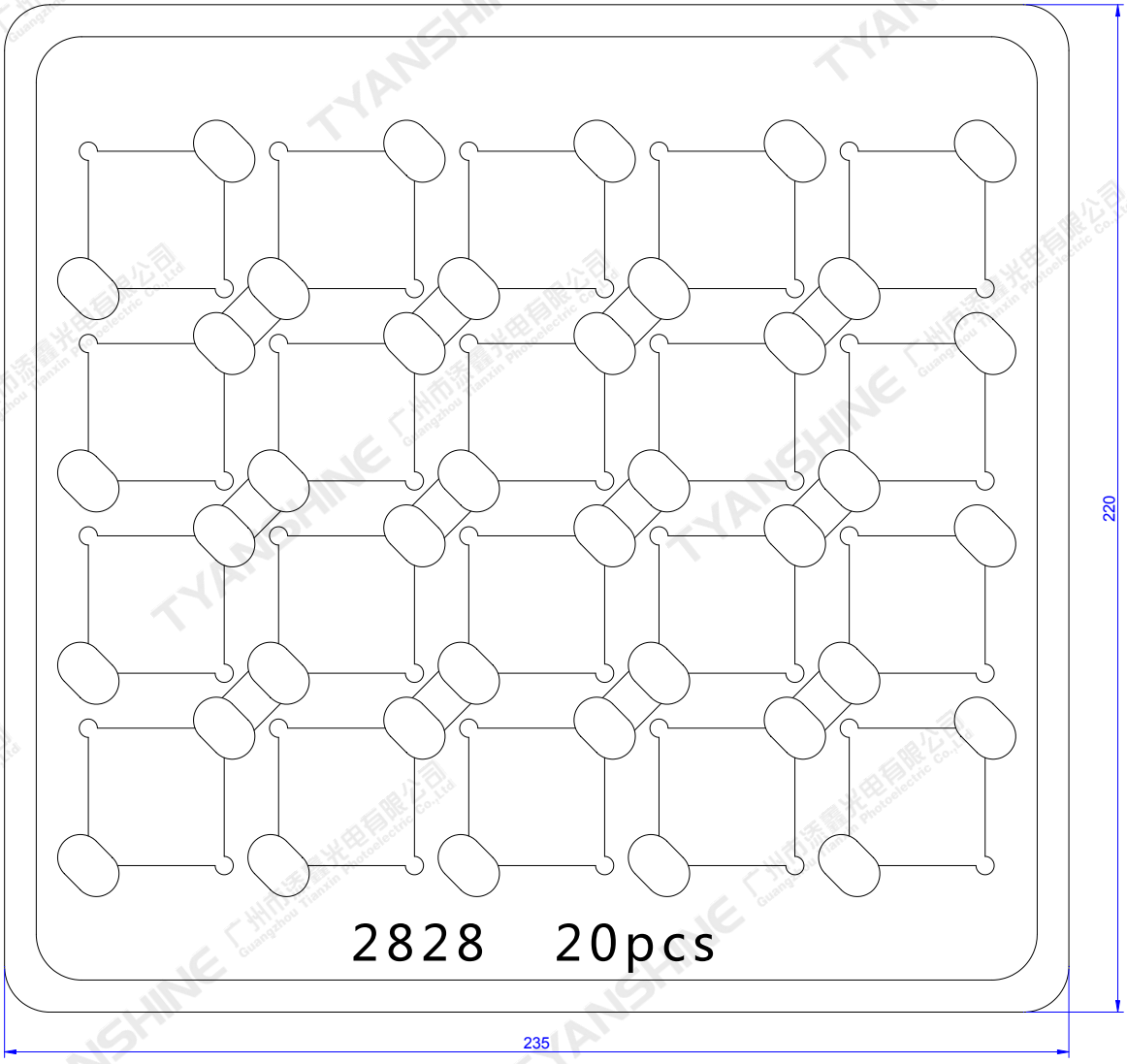


Notes:

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°.

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.