TX-2828SW150C25F13-03H952770

PRODUCT SPECIFICATION

Features:

◆Excellent transiting heat from LED chip operating under 3800mA.

◆Provide uniform cross distribution of positive white and warm white dual color scheme, mixed pure.

◆High luminous output.

◆No UV.

◆Encapsulated materials are environmentally certified and meet environmental requirements.

Chip Material:

◆GaInN

Emitting Color:

◆White

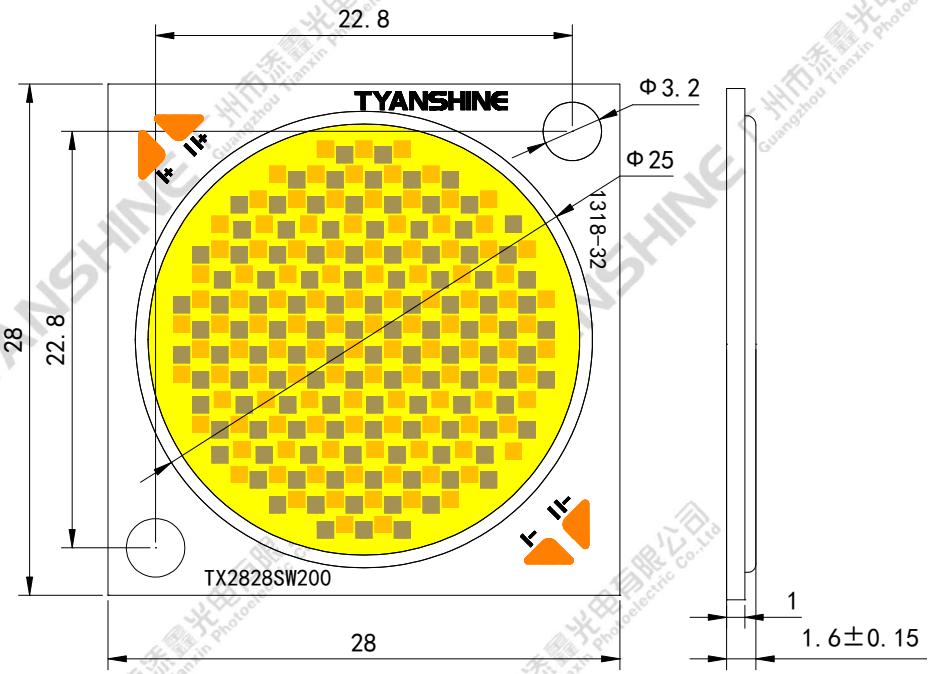
◆Warm white

Applications:

◆Commercial lighting

◆General Lighting

Package Dimensions:



I：Warm White(S)　II：White(W)

Notes:

1.All dimensions are in millimeters .

2.Tolerances unless otherwise mentioned are ±0.25mm .

Code Formats:

TX-2828SW150C25F13-03H952770

TX	—	2828	SW	150	C	25	F	13	—	03	H95	2770
TYANSHINE	—	series	performance	watt typ	texture	LES	chip code	die count in series	—	BOM	Ra	CCT

Absolute Maximum Ratings

Parameter	Symbol		Ratings	Unit
Forward Current	IF		3800	mA
Reverse Voltage	V_R		Not designed for reverse operation	V
Power Dissipation	P_D	W	150	W
		S	150	
		S+W	150	
Junction Temperature	Tj	W	150	℃
		S	150	
Case Temperature (C)	Tc		85	℃
Electrostatic Discharge Threshold (ESD)	ESD		2000	V
Storage Temperature	T_{stg}		-30~+80	℃
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	Emitting color	Min.	Typ.	Max.	Units
Luminous Flux	φ_v	If=3500mA	S	9650	10800	12200	lm
			W	13000	14500	16500	
Forward Voltage	V_f		S	36	38	40	V
			W	36	38	40	
Correlated Colour Temperature	CCT		S	2600	2670	2740	K
			W	6600	6900	7200	
Viewing Angle at 50％IV	$2\theta_{1/2}$		S	—	115	—	Deg
			W	—	115	—	
Reverse Current	I_R	—	—	—	—	—	μA
Thermal Resistance Junction to Case	$R\theta_{J-C}$	If=3500mA	—	—	0.24	—	K/W
Color Rendering Index	Ra		S	95	—	—	—
			W	95	—	—	

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.

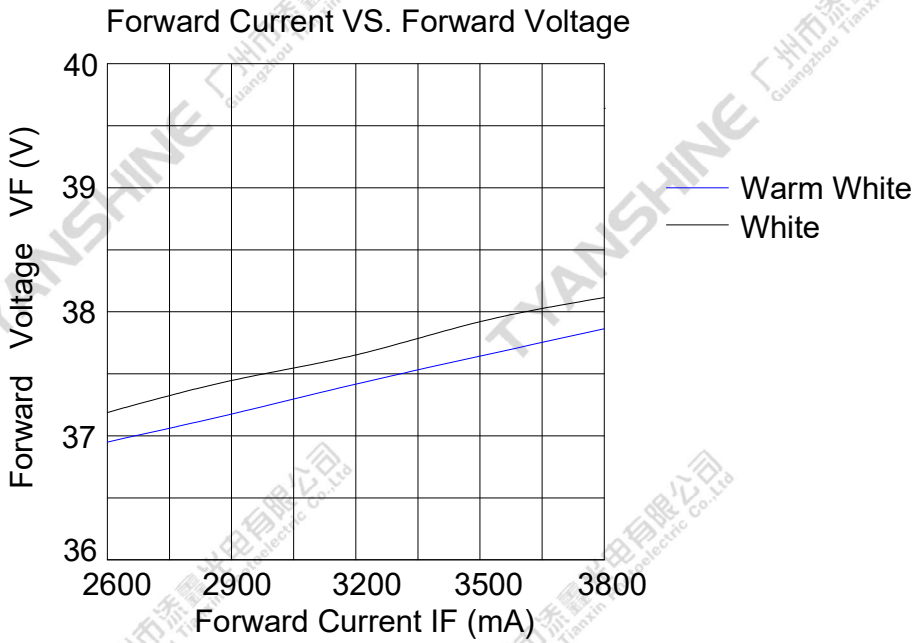
3.Luminous flux measurement tolerance:±15%.

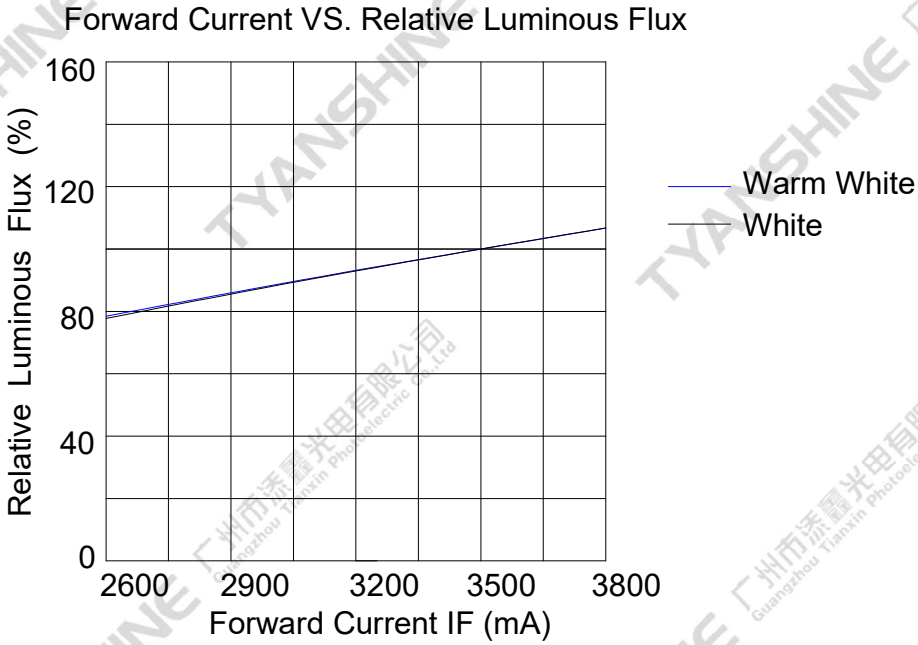
4.Forward voltage measurement tolerance:±3%.

5.Ra measurement tolerance:±2.

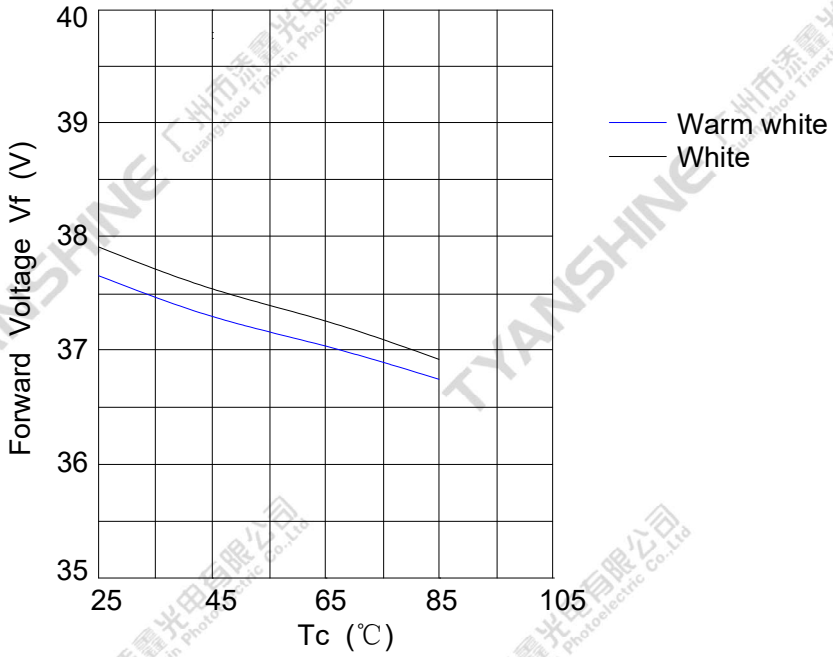
Typical Electrical/Optical Characteristics Curves

(25℃ Ambient Temperature Unless Otherwise Noted)

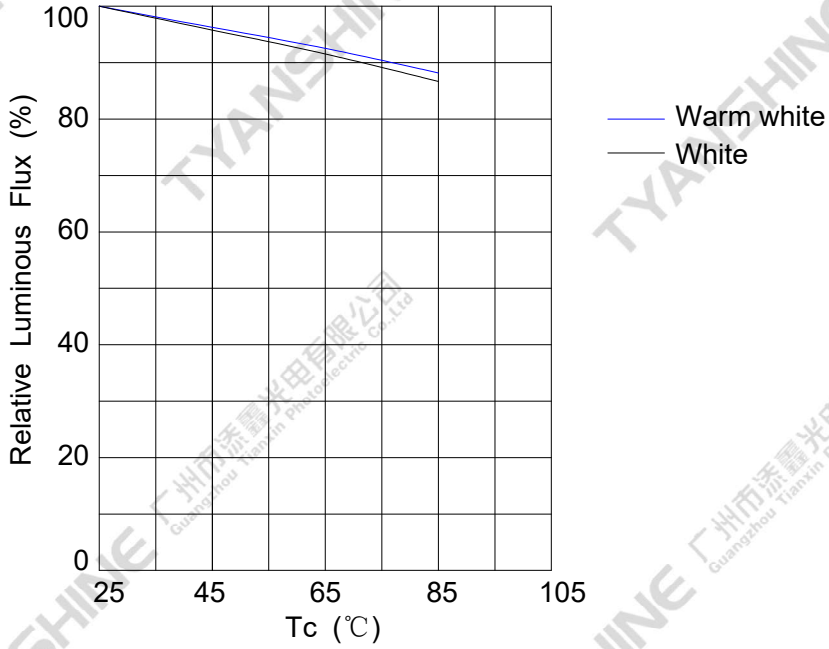


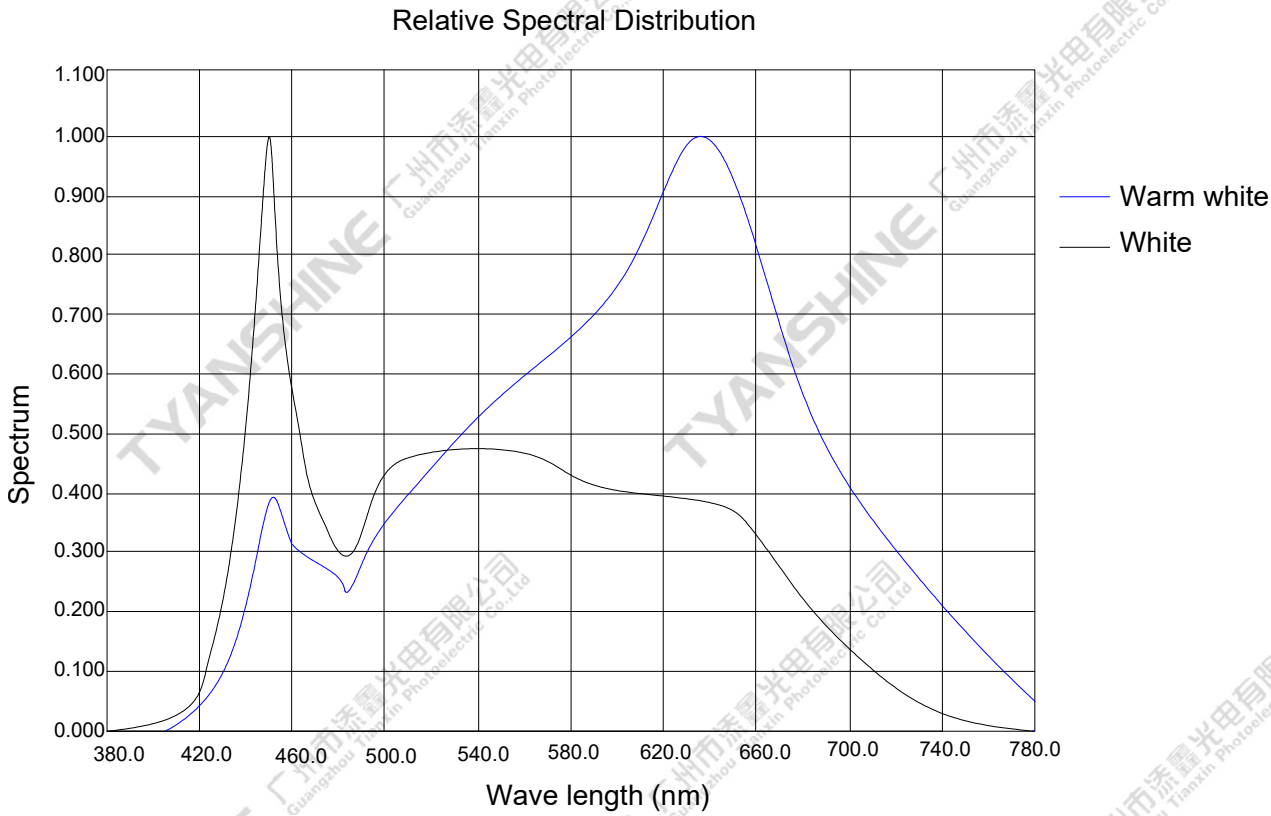


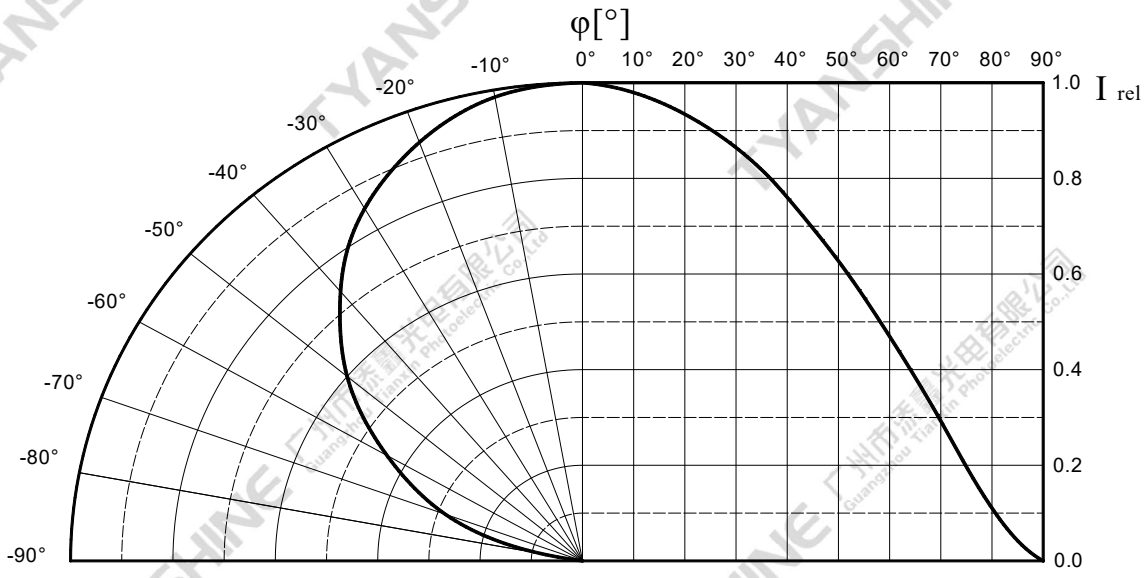
Temperature VS. Forward Voltage (IF=3.5A)



Temperature VS. Relative Luminous Flux (IF=3.5A)



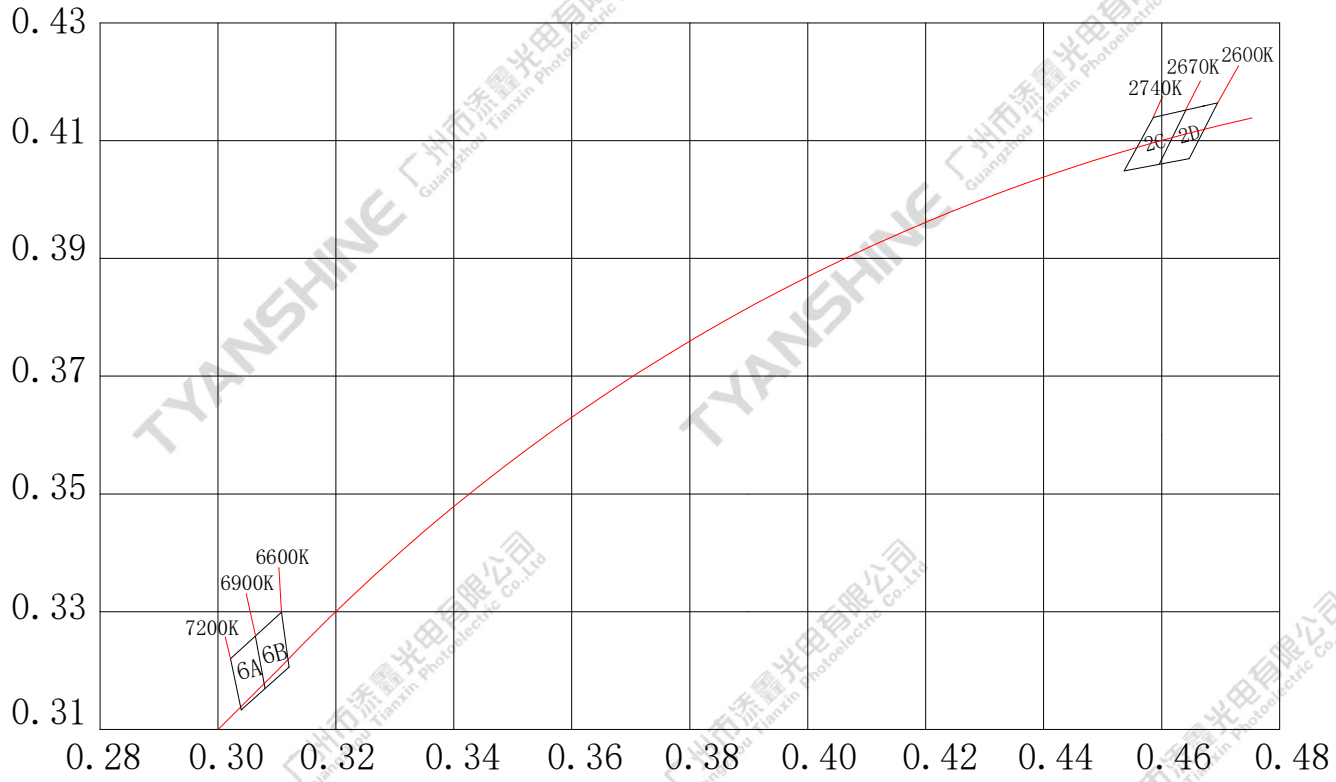




Notes:

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°.

Chromaticity Coordinates（Condition：IF=3500mA，Tc=25℃）



Notes:

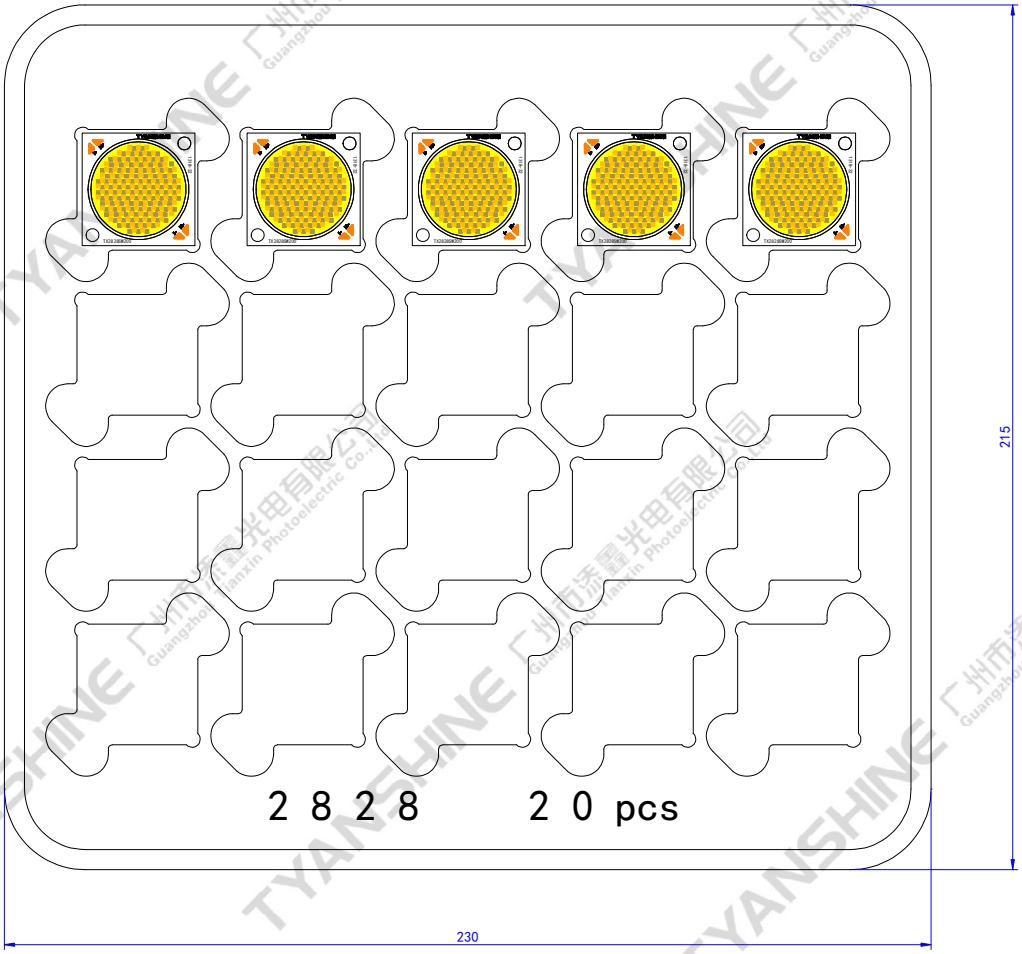
1.chromaticity (x, y) measurements tolerance:±0.005.

Reliability Test

Test Item	Test Condition
Continuous Operation Test	IF=3500mA Ta=25℃ ×1000hrs
Low Temperature Storage Test	-30℃ × 1000 hours
High Temperature Storage Test	100 ℃ × 1000 hours
Moisture-proof Test	85 ℃, 85 %RH for 500 hours
Thermal Shock Test	-40 ℃ × 15 minutes – 125 ℃ × 15 minutes, 100 cycle

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.