

TX-H1825SW14A-2860V36-03H95

PRODUCT SPECIFICATION

Features:

- ◆Excellent transiting heat from LED chip operating under 1000mA.
- ◆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:

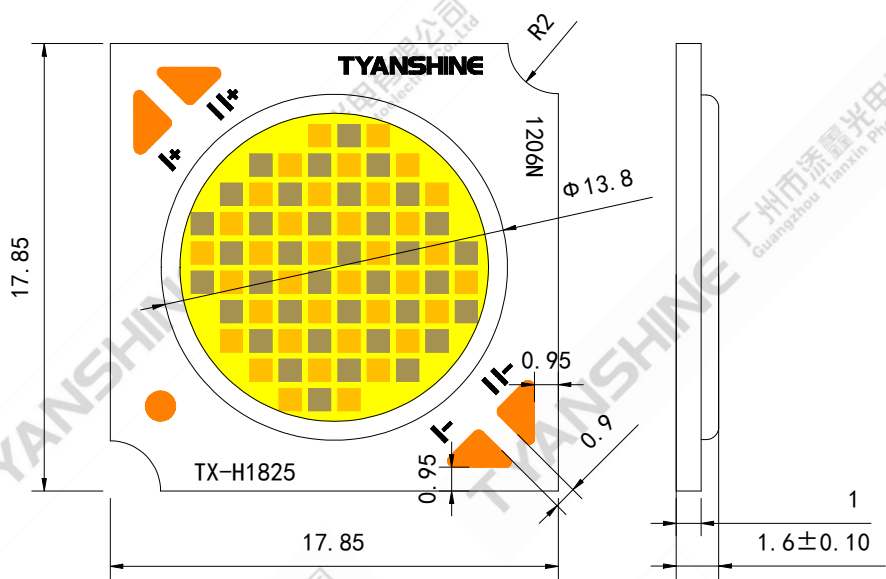
- ◆White
- ◆Warm white

Applications:

- ◆Commercial lighting
- ◆General Lighting

Part No	TX-H1825SW14A-2860V36-03H95	Spec No.	WKF-DA0010	Page	1 of 9
---------	-----------------------------	----------	------------	------	--------

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-H1825SW14A-2860V36-03H95

TX	—	H	18	25	SW	14	A	—	2860	V36	—	03	H95
TYANSHINE	—	high density	series	watt typ	performance	LES	texture	—	CCT	VOLTs	—	BOM	Ra

Absolute Maximum Ratings

Parameter	Symbol	Ratings	Unit
Forward Current	IF	1000	mA
Reverse Voltage	V _R	Not designed for reverse operation	V
Power Dissipation	P _D	W	W
		S	
		S+W	
Junction Temperature	T _j	W	℃
		S	
Case Temperature (C)	T _c	85	℃
Electrostatic Discharge Threshold (ESD)	ESD	2000	V
Storage Temperature	T _{stg}	-30~+100	℃
Operation Temperature	T _{opr}	-30~+85	

Notes:

- Specifications are subject to change without notice.
- The data on this specification is for reference only and the actual data is in accordance with the acknowledgment.
- 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=750mA	S	1700	1900	2200	lm	
			W	2250	2500	2900		
Forward Voltage	V_f		S	33	35	37	V	
			W	33	35	37		
Correlated Colour Temperature	CCT		S	—	2800	—	K	
			W	—	6000	—		
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=750mA	—	—	1.1	—	K/W
Temperature Coefficient of Voltage	$V\Delta F/T$			S	—	-13.2	—	mV/°C
				W	—	-13.2	—	
Color Rendering Index	Ra			S	95	—	—	—
				W	95	—	—	

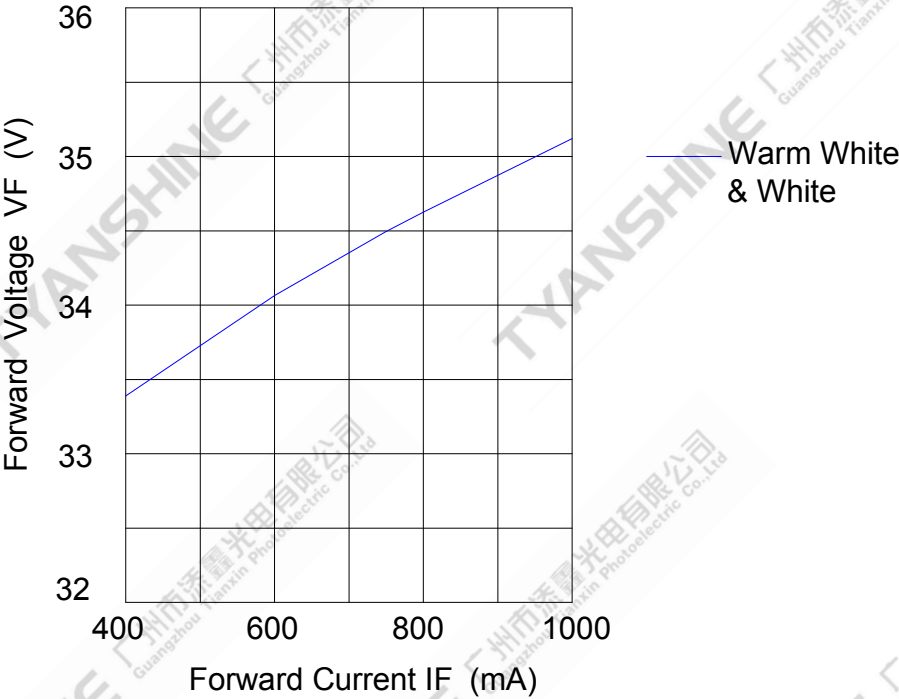
Notes:

- 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: $\pm 15\%$.
- 4.Forward voltage measurement tolerance: $\pm 3\%$.
- 5.Ra measurement tolerance: ± 2 .

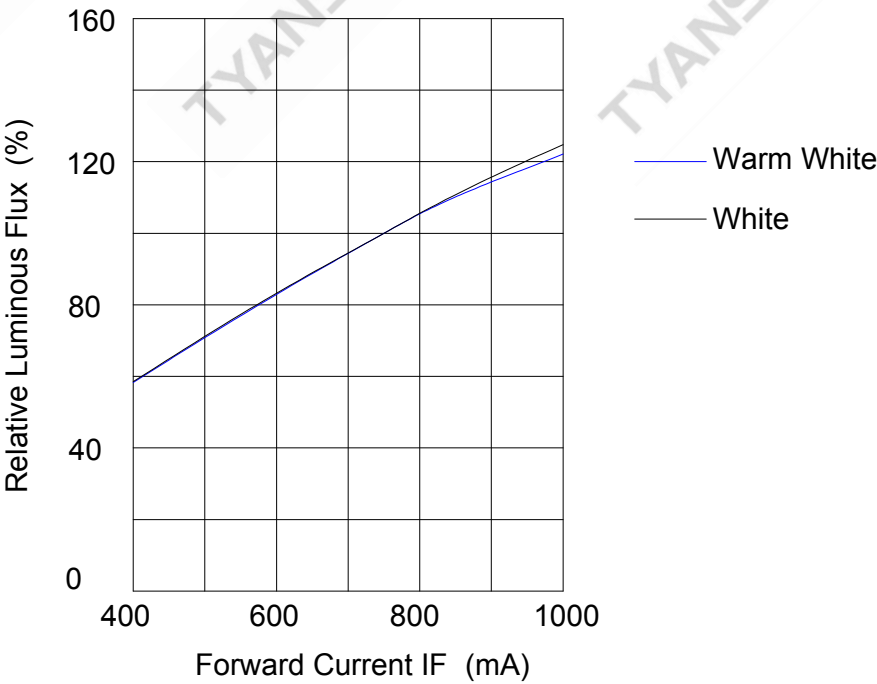
Typical Electrical/Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

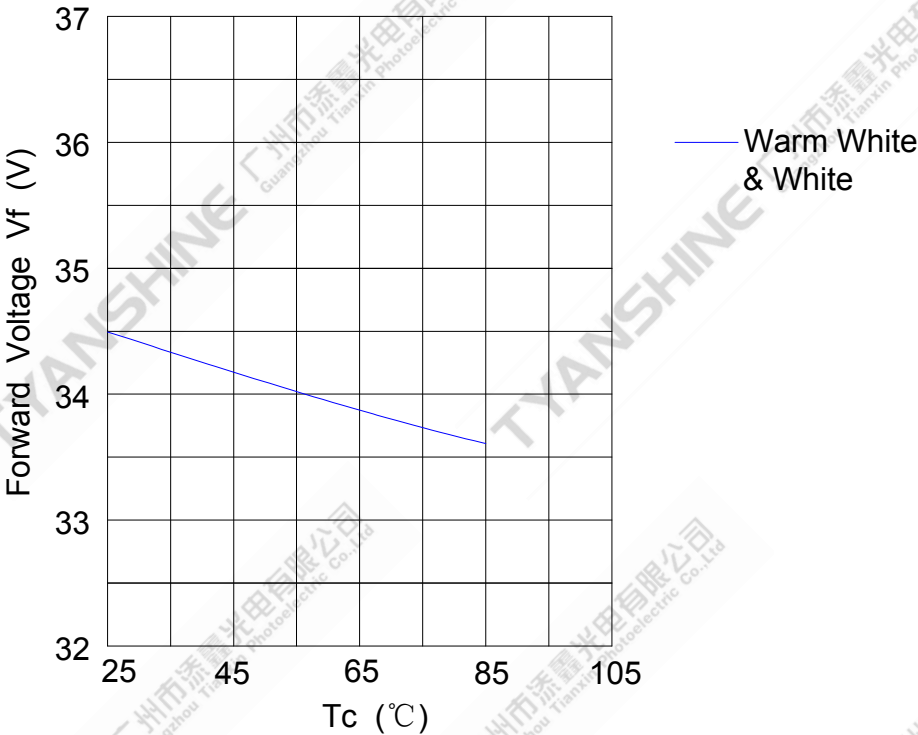
Forward Current VS. Relative Forward Voltage



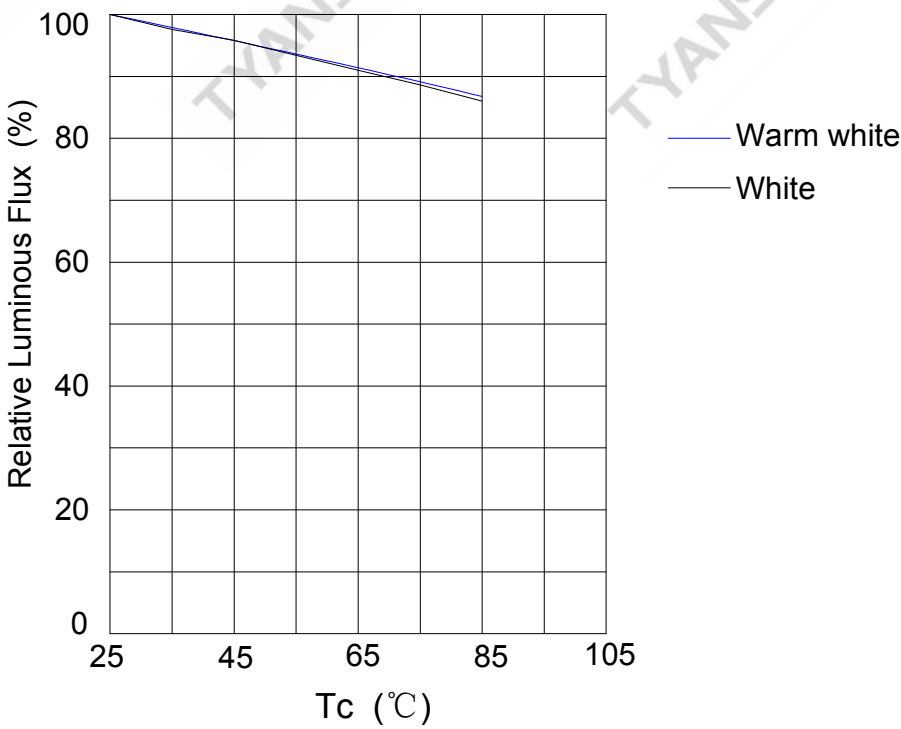
Forward Current VS. Relative Luminous Flux

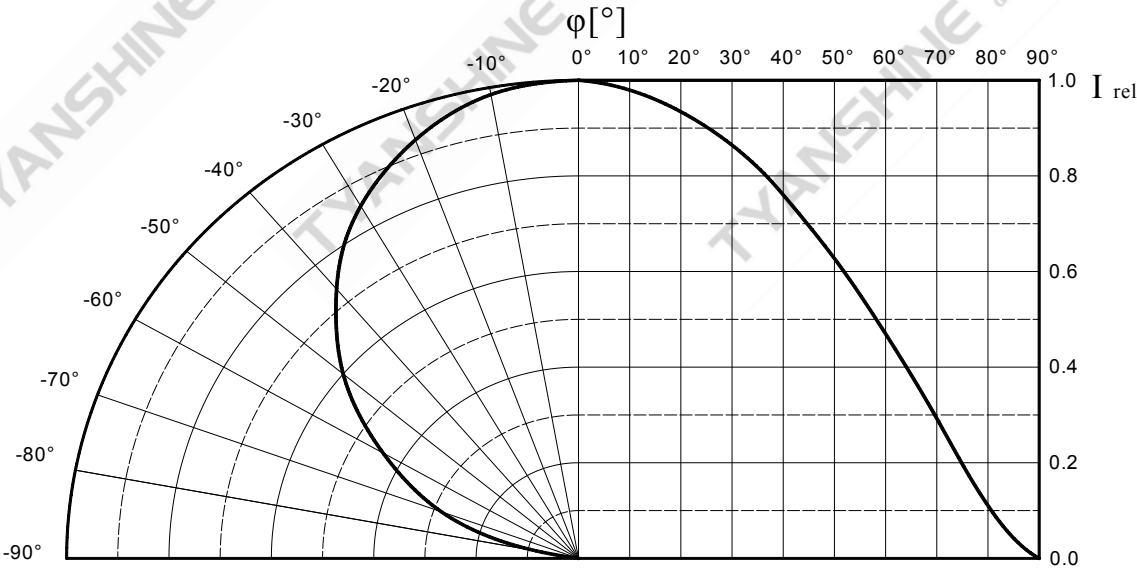
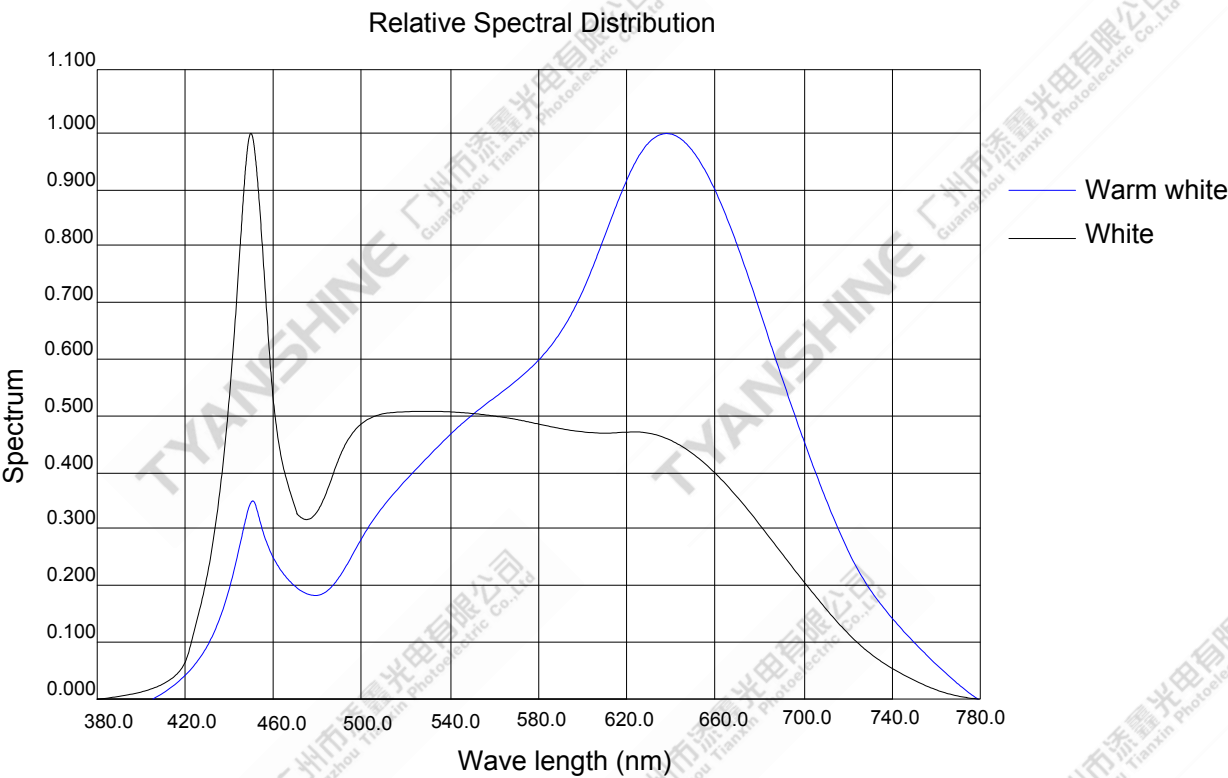


Temperature VS. Relative Luminous FLux (IF=750mA)



Temperature VS. Forward Voltage (IF=750mA)

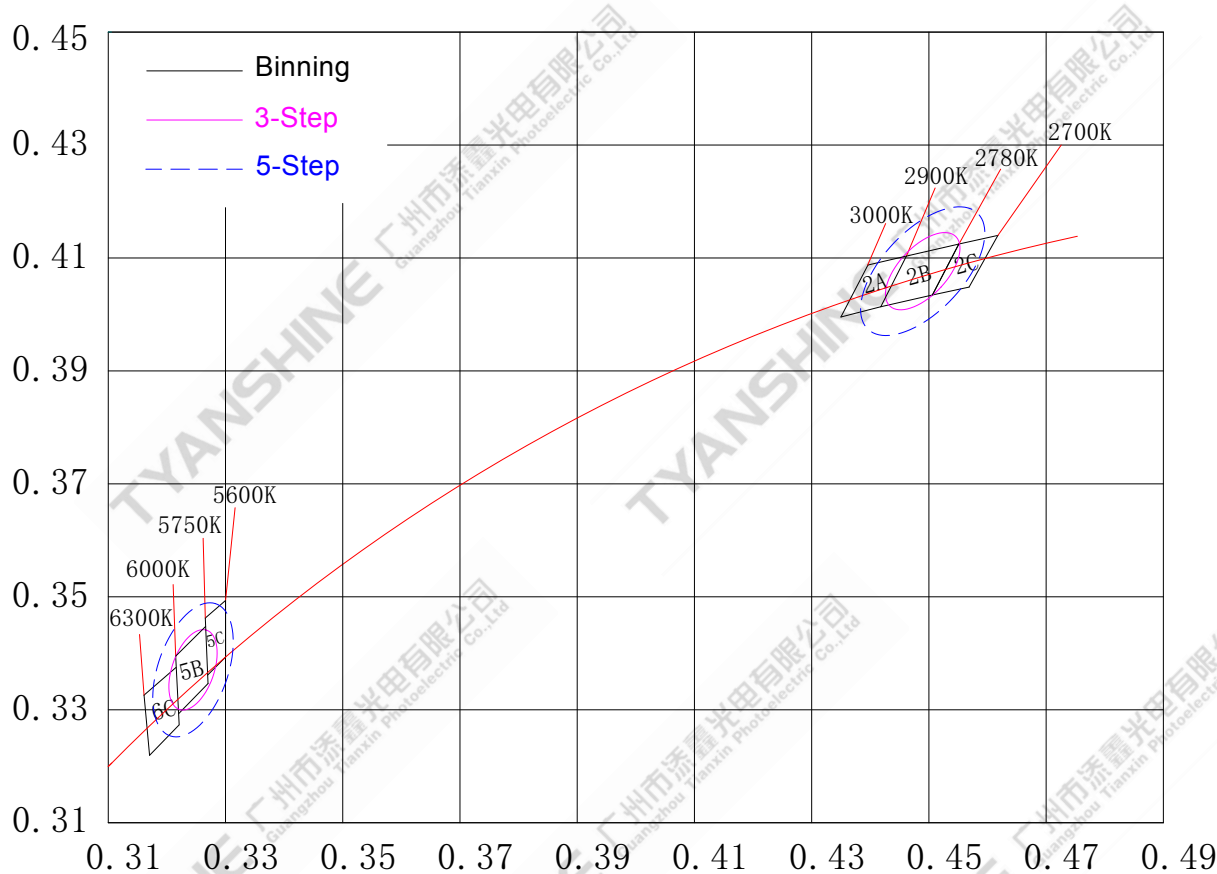




Notes:

- 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 $\pm 5^\circ$.

Chromaticity Coordinates (Condition : IF=750mA , Tc=25℃)



Notes:

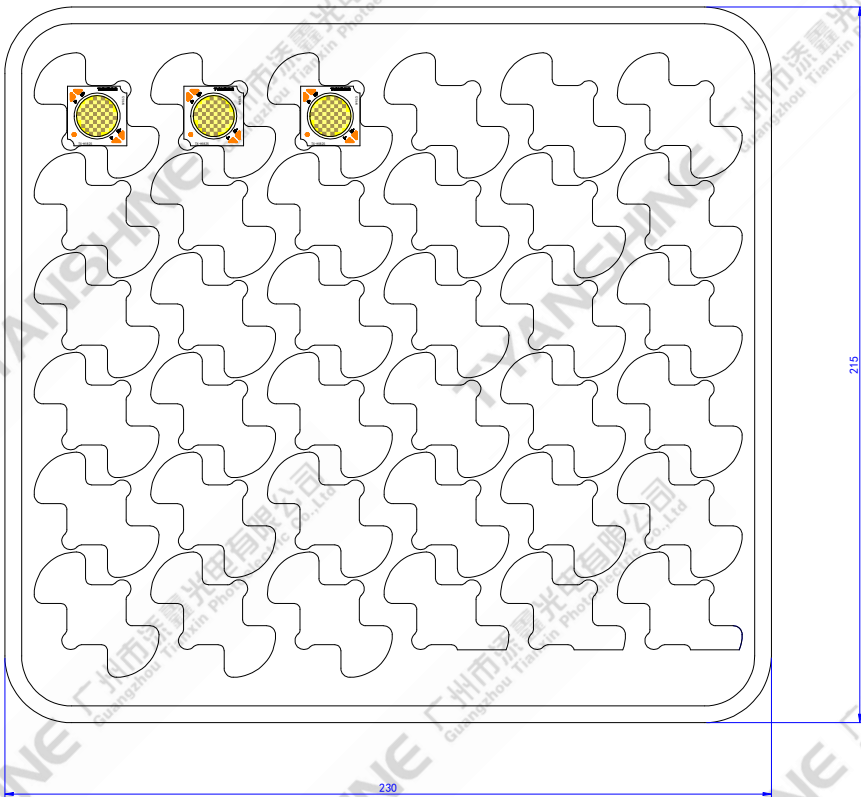
1.chromaticity (x, y) measurements tolerance: ±0.005.

Reliability Test

Test Item	Test Condition
Continuous Operation Test	IF=750mA 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: 36PCS



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.