TX-90100W1000FC120-NUVENG-B01H90

PRODUCT SPECIFICATION

Features:

◆Excellent transiting heat from white LED chip operating under W:3.5A*4 S:3.5A*4 .

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

◆No UV.

◆High luminous output.

◆Encapsulated materials are environmentally certified and meet environmental requirements.

Chip Material:

◆GaInN

Emitting Color:

◆White

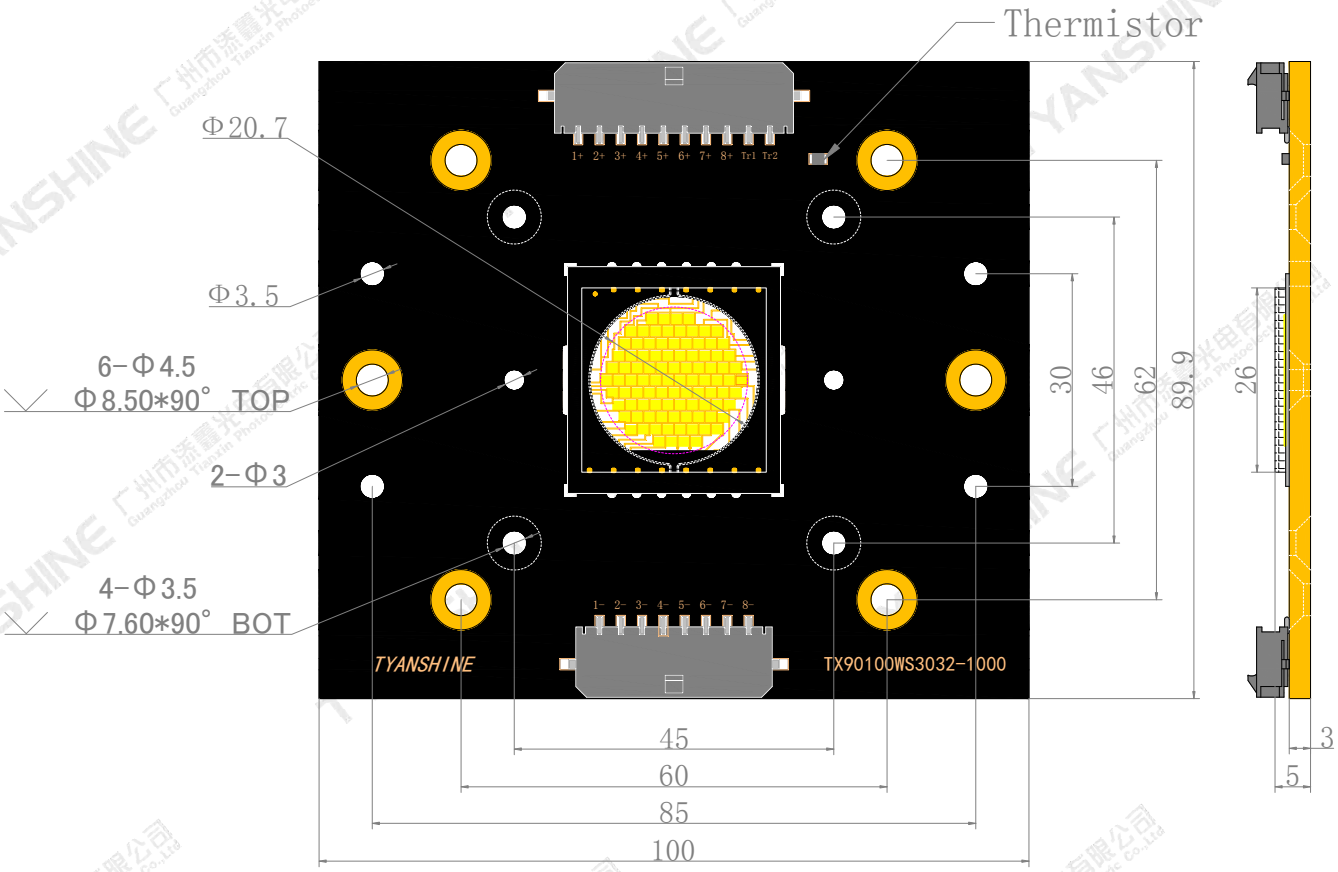
Applications:

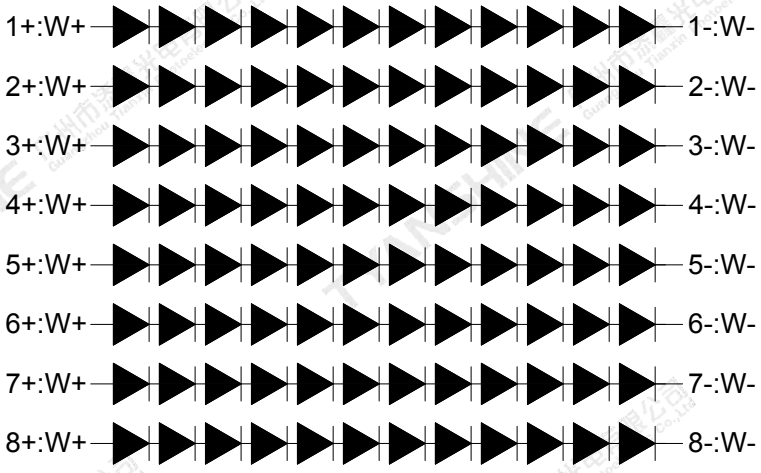
◆Auxiliary lighting

◆Ambient lighting

◆Architectural lighting

Package Dimensions:





Notes:

1.All dimensions are in millimeters .

2.Tolerances unless otherwise mentioned are ±0.1mm .

Absolute Maximum Ratings (Tc=25℃)

Parameter	Symbol		Ratings	Unit
Forward Current	IF	1(W)	3.5	A
		2(W)	3.5	
		3(W)	3.5	
		4(W)	3.5	
		5(W)	3.5	
		6(W)	3.5	
		7(W)	3.5	
		8(W)	3.5	
Reverse Voltage	V_R		—	V
Power Dissipation	P_D	1/3/5/7:W	504	W
		2/4/6/8:W	504	
Junction Temperature	Tj	1/3/5/7:W	150	℃
		2/4/6/8:W	150	
Electrostatic Discharge Threshold (ESD)	ESD		2000	V
Storage Temperature	T_{stg}		-20~+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	Emitting color	Min.	Typ.	Max.	Units
Luminous Flux	φ_v	If=3.5*4=14A (Tc=25℃)	1/3/5/7:W	31000	33900	36800	lm
			2/4/6/8:W	31000	33900	36800	
		If=3.5*4=14A (Tc=85℃)	1/3/5/7:W	25300	27600	30000	
			2/4/6/8:W	25300	27600	30000	
Forward Voltage	V_f	If=3.5*4=14A (Tc=25℃)	1/3/5/7:W	33	36	39	V
			2/4/6/8:W	33	36	39	
		If=3.5*4=14A (Tc=85℃)	1/3/5/7:W	32	35	38	
			2/4/6/8:W	32	35	38	
Correlated Colour Temperature	CCT	If=3.5*4=14A (Tc=25℃)	1/3/5/7:W	6500	—	7000	K
			2/4/6/8:W	6500	—	7000	
		If=3.5*4=14A (Tc=85℃)	1/3/5/7:W	7060	—	7610	
			2/4/6/8:W	7060	—	7610	
Viewing Angle at 50％IV	$2\theta_{1/2}$	—	W	—	115	—	Deg
Reverse Current	I_R	—	W	—	—	—	μA
Thermal Resistance Junction to Case	$R\theta_{J-C}$	—	1/3/5/7:W	—	0.023	—	K/W
			2/4/6/8:W	—	0.023	—	
Temperature Coefficient of Voltage	V△F/T	If=3.5*4=14A	1/3/5/7:W	—	-19	—	mV/℃
			2/4/6/8:W	—	-19	—	
Color Rendering Index	Ra		1/3/5/7:W	90	92.5	—	—
			2/4/6/8:W	90	92.5	—	—

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.

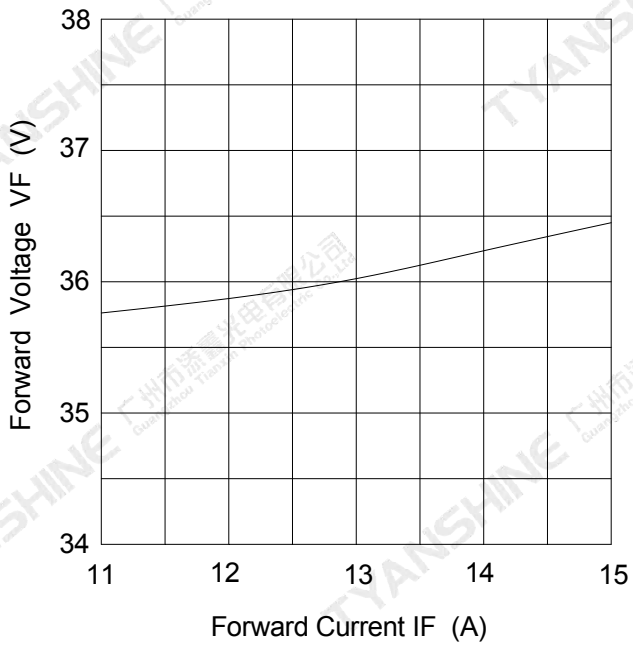
3.Luminous flux measurement tolerance:±15%.

4.Forward voltage measurement tolerance:±0.15V.

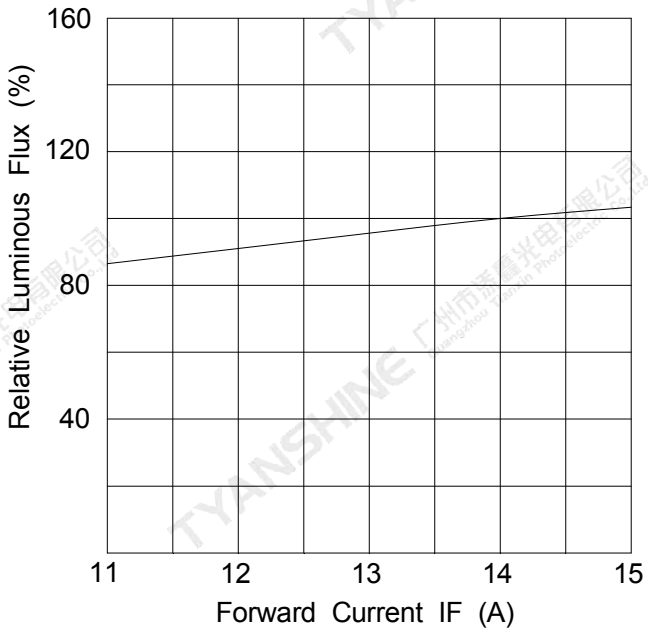
Typical Electrical/Optical Characteristics Curves

(25℃ Ambient Temperature Unless Otherwise Noted;(1/3/5/7:W)/(2/4/6/8:W):IF=3.5A*4=14A)

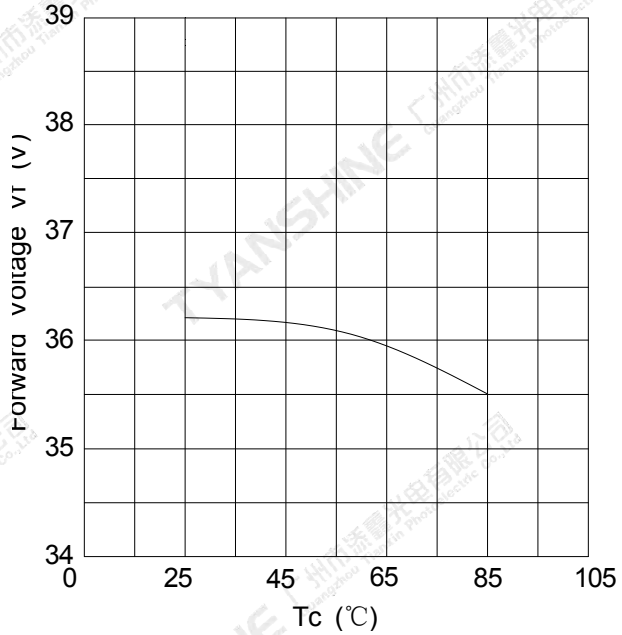
Forward Current VS. Relative Forward Voltage



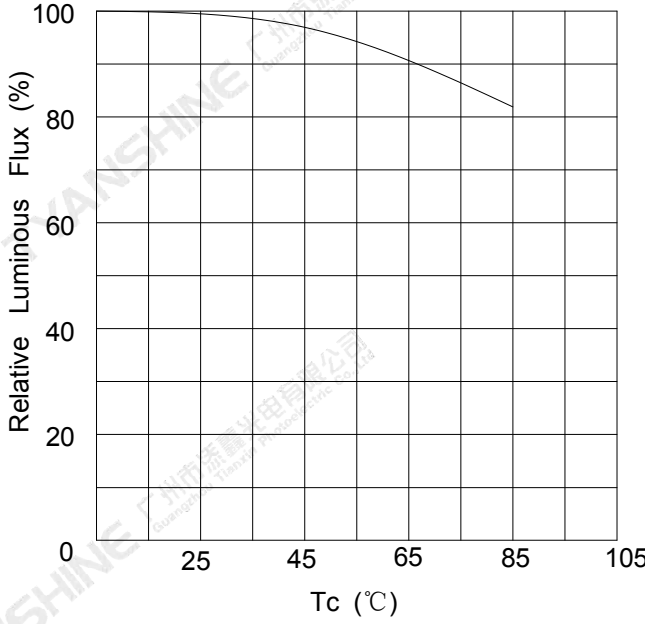
Forward Current VS. Relative Luminous Flux

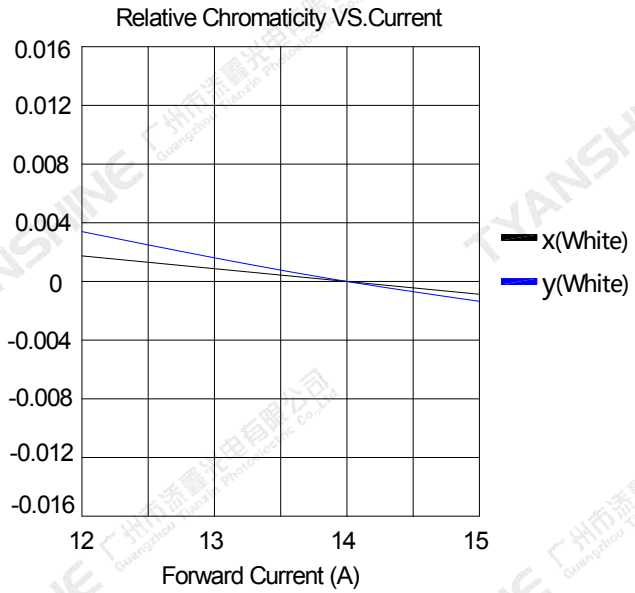


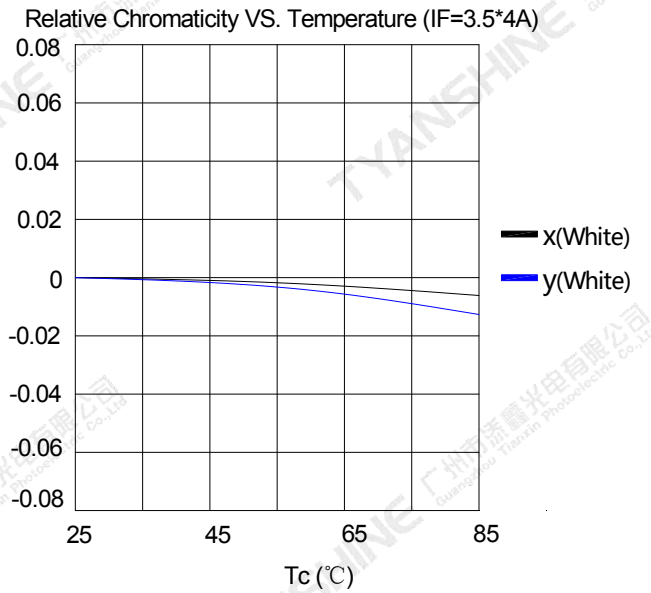
Temperature VS. Relative Luminous FLux (IF=3.5*4A)

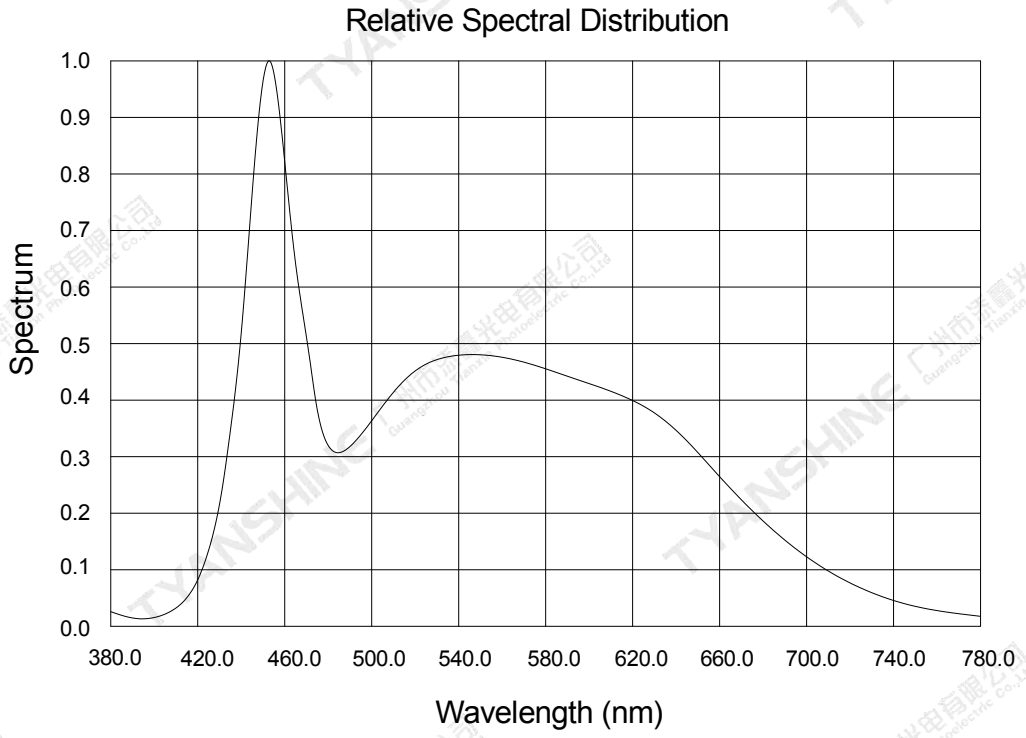


Temperature VS. Forward Voltage (IF=3.5*4A)







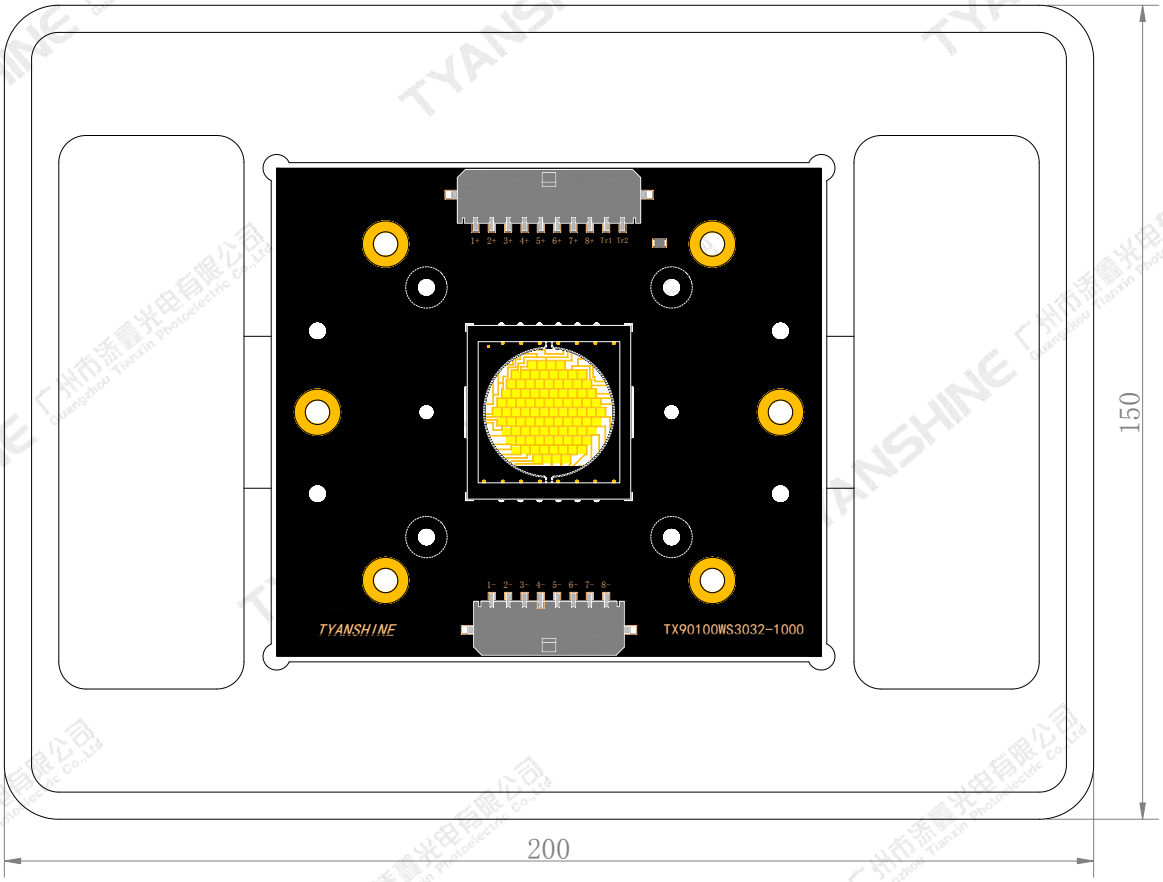


Notes:

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:1 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, Irre sponsible of the Company.