

TX-90100WS500FC120-NUVENG-01H95

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
- ◆GaInN

Emitting Color:

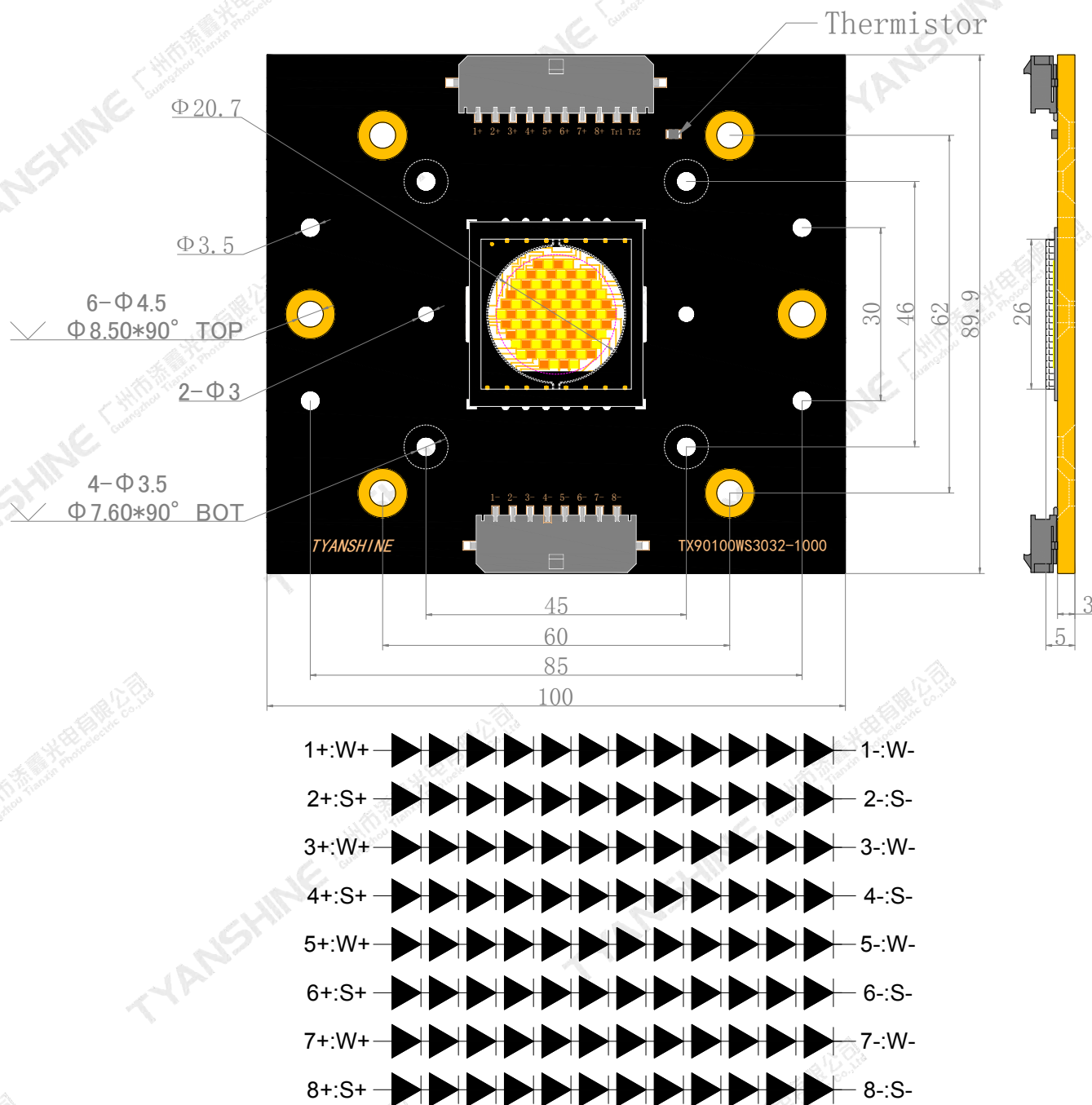
- ◆White
- ◆Warm White

Applications:

- ◆Auxiliary lighting
- ◆Ambient 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(W)	3.5
		2(S)	3.5
		3(W)	3.5
		4(S)	3.5
		5(W)	3.5
		6(S)	3.5
		7(W)	3.5
		8(S)	3.5
Reverse Voltage	V _R	—	V
Power Dissipation	P _D	1/3/5/7:W	504
		2/4/6/8:S	504
Junction Temperature	T _j	W	150
		S	150
Electrostatic Discharge Threshold (ESD)	ESD	2000	V
Storage Temperature	T _{stg}	-20~+70	℃
Operation Temperature	T _{opr}	-30~+100	

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

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	28460	30500	32730	lm
			2/4/6/8:S	18700	20100	21520	
		If=3.5*4=14A (Tc=85℃)	1/3/5/7:W	25320	27145	29130	
			2/4/6/8:S	15140	16280	17450	
Forward Voltage	V_f	If=3.5*4=14A (Tc=25℃)	1/3/5/7:W	33	36	39	V
			2/4/6/8:S	33	36	39	
		If=3.5*4=14A (Tc=85℃)	1/3/5/7:W	32	35	38	
			2/4/6/8:S	32	35	38	
Correlated Colour Temperature	CCT	If=3.5*4=14A (Tc=25℃)	1/3/5/7:W	6000	—	6500	K
			2/4/6/8:S	2700	—	2870	
		If=3.5*4=14A (Tc=85℃)	1/3/5/7:W	6150	—	6670	
			2/4/6/8:S	2725	—	2900	
Viewing Angle at 50 % IV	$2\theta_{1/2}$	—	1/3/5/7:W	—	115	—	Deg
			2/4/6/8:S	—	115	—	
Reverse Current	I_R	—	1/3/5/7:W	—	—	—	μA
			2/4/6/8:S	—	—	—	
Thermal Resistance Junction to Case	$R\theta_{J-C}$	—	1/3/5/7:W	—	0.023	—	K/W
			2/4/6/8:S	—	0.023	—	
Temperature Coefficient of Voltage	$V\Delta F/T$	If=3.5*4=14A	1/3/5/7:W	—	-19	—	mV/℃
			2/4/6/8:S	—	-19	—	
Color Rendering Index	Ra		1/3/5/7:W	95	97.5	—	—
			2/4/6/8:S	95	97.5	—	—

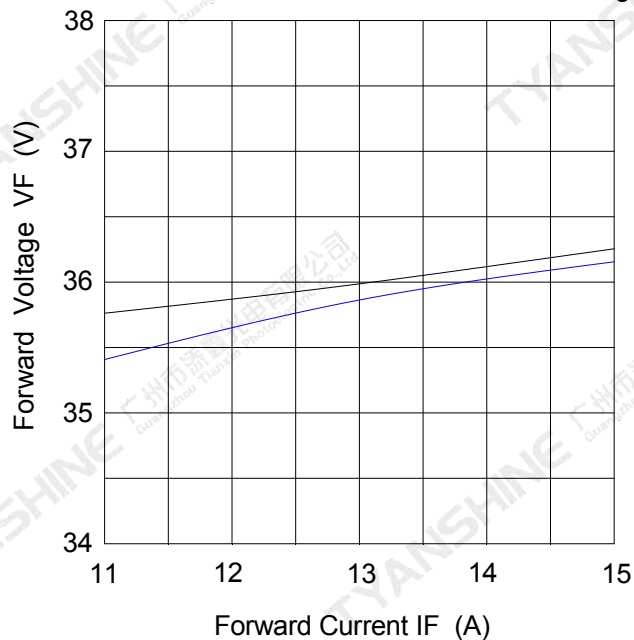
Notes:

- 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.

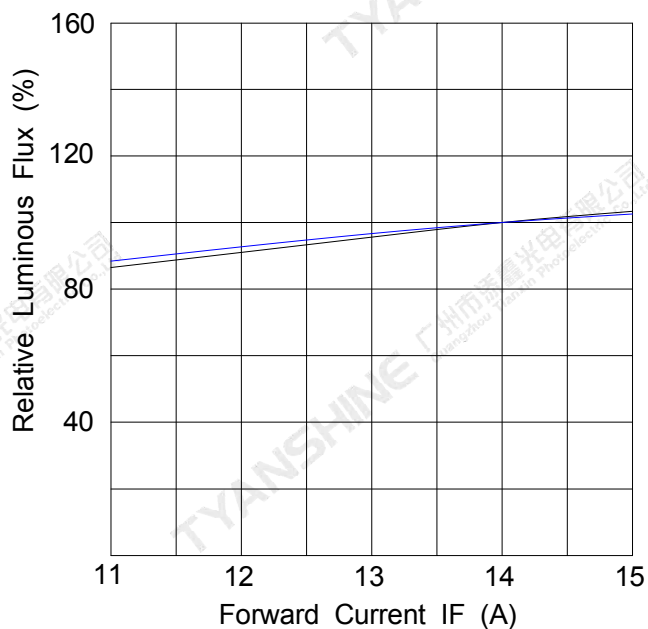
Typical Electrical/Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted; W/S:IF=3.5A*4=14A)

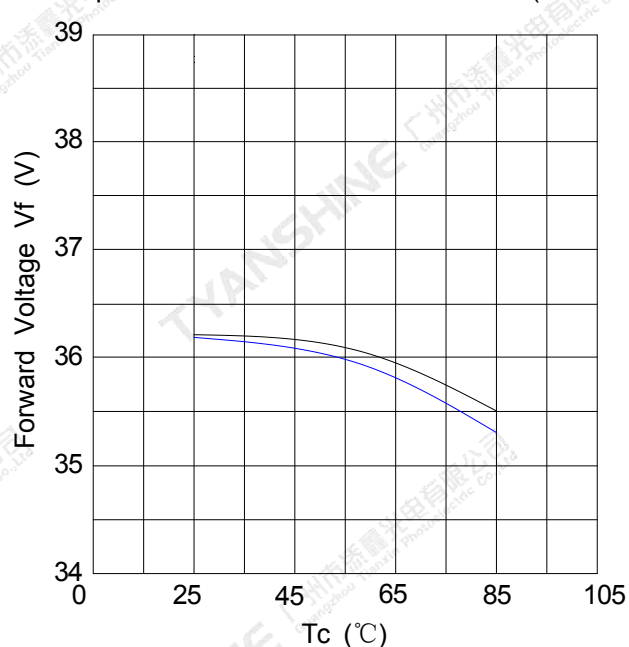
Forward Current VS. Relative Forward Voltage



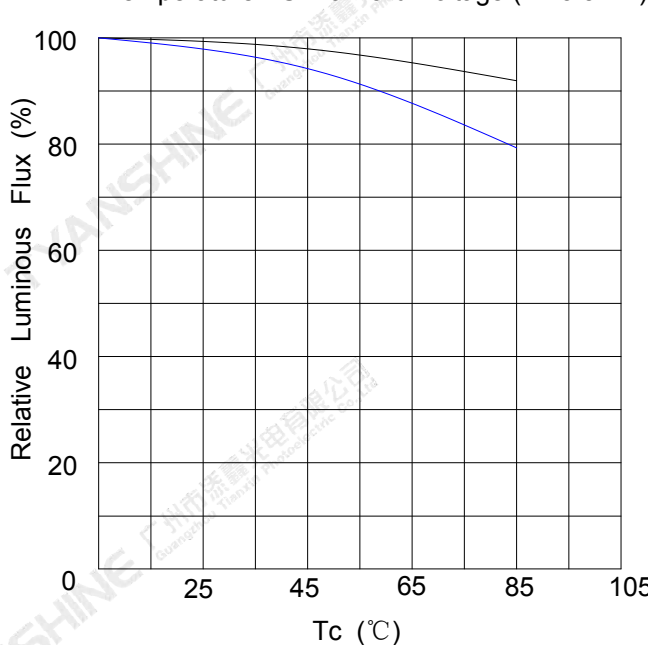
Forward Current VS. Relative Luminous Flux



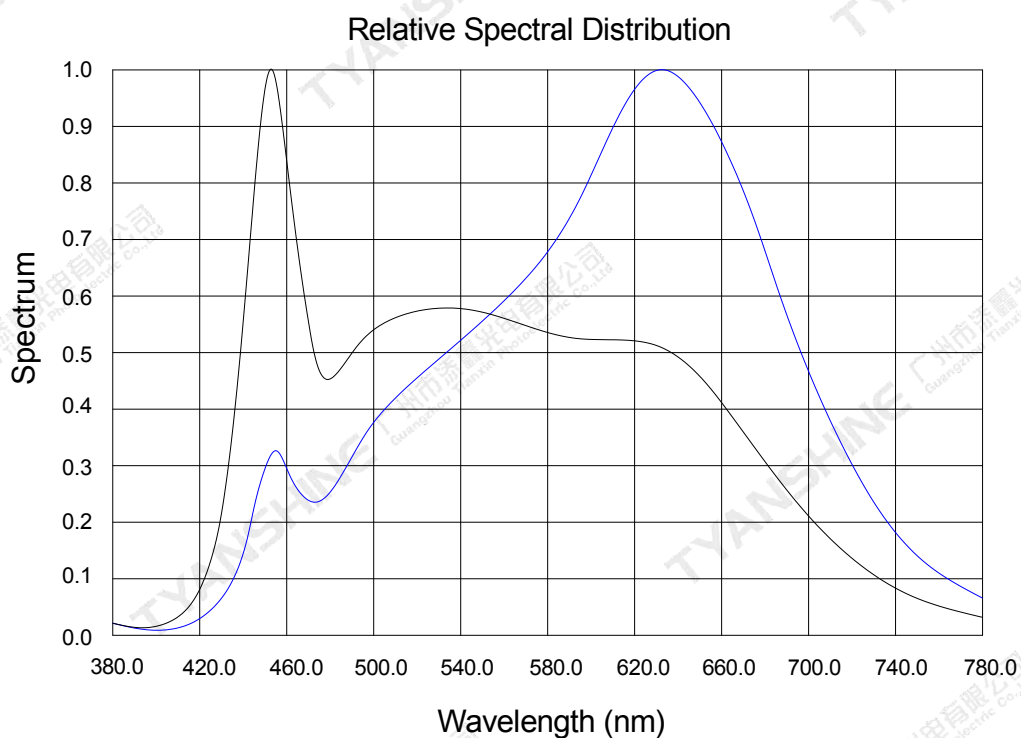
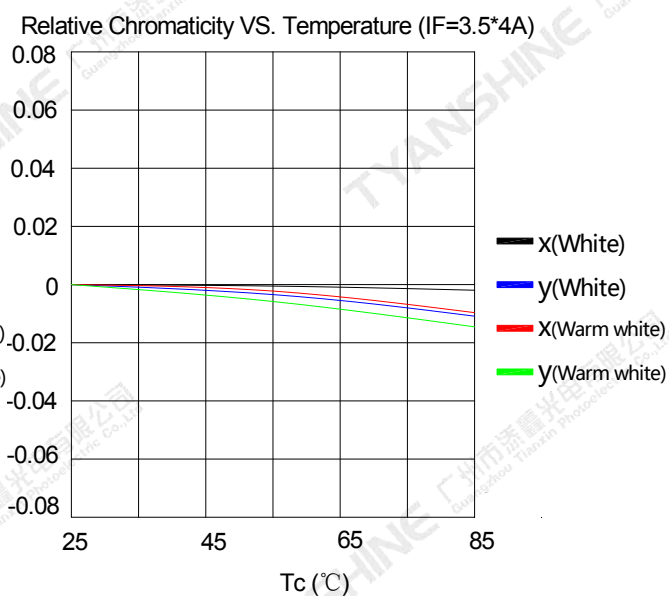
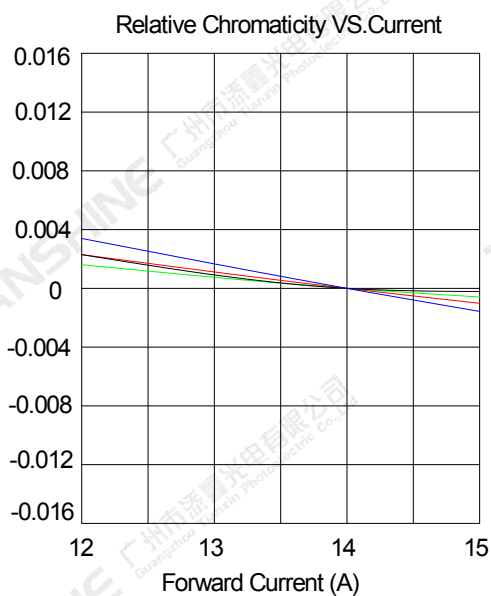
Temperature VS. Relative Luminous FLux (IF=3.5*4A)



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



Notes: — White ; — Warm white.



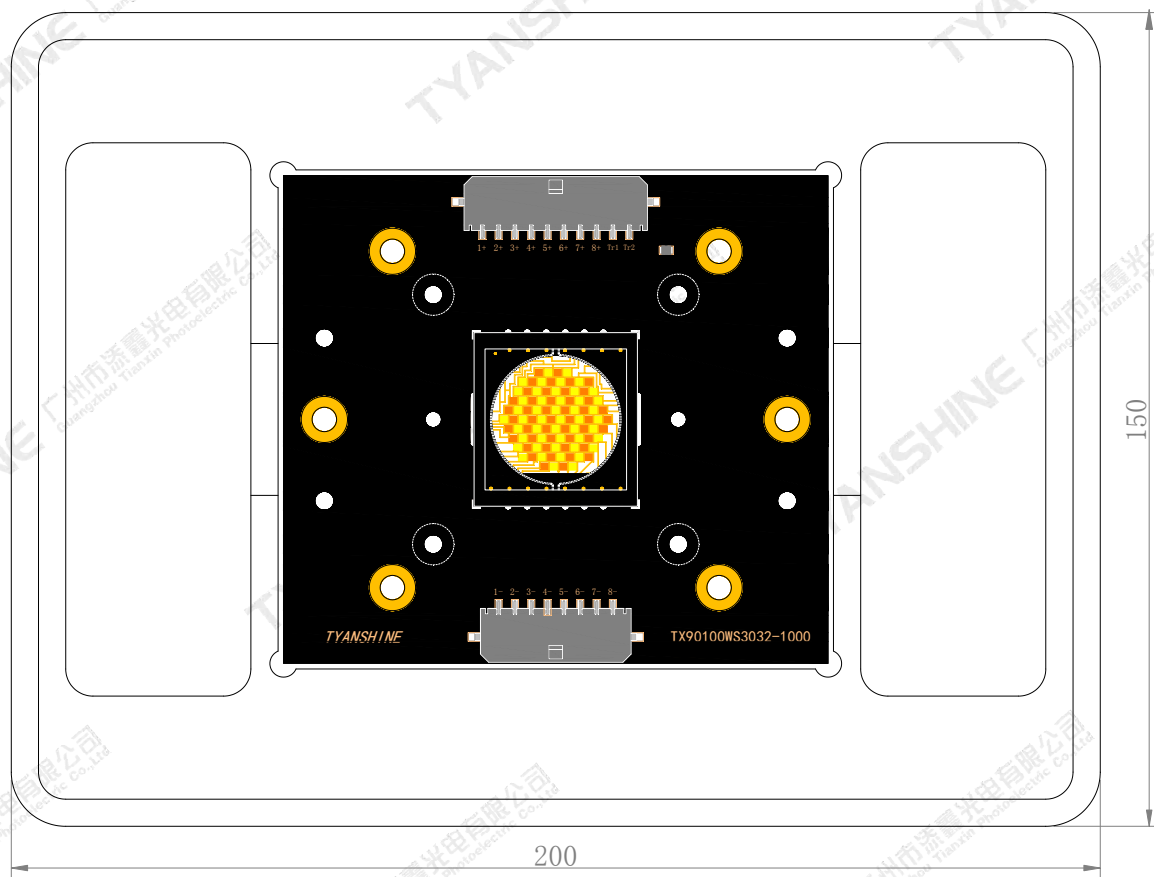
Notes: — White ; — Warm white.

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 $\pm 5^\circ$.

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.