

TX-1515RGBWS50A11V07-30H90

PRODUCT SPECIFICATION

Features:

- ◆Excellent transiting heat from LED chip operating under R:400mA, G/B:450mA; W/S:600mA.
- ◆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:

- ◆Red:AlGaInP
- ◆Green:GaInN
- ◆Blue:GaN
- ◆Warm White:GaN
- ◆White:GaN

Emitting Color:

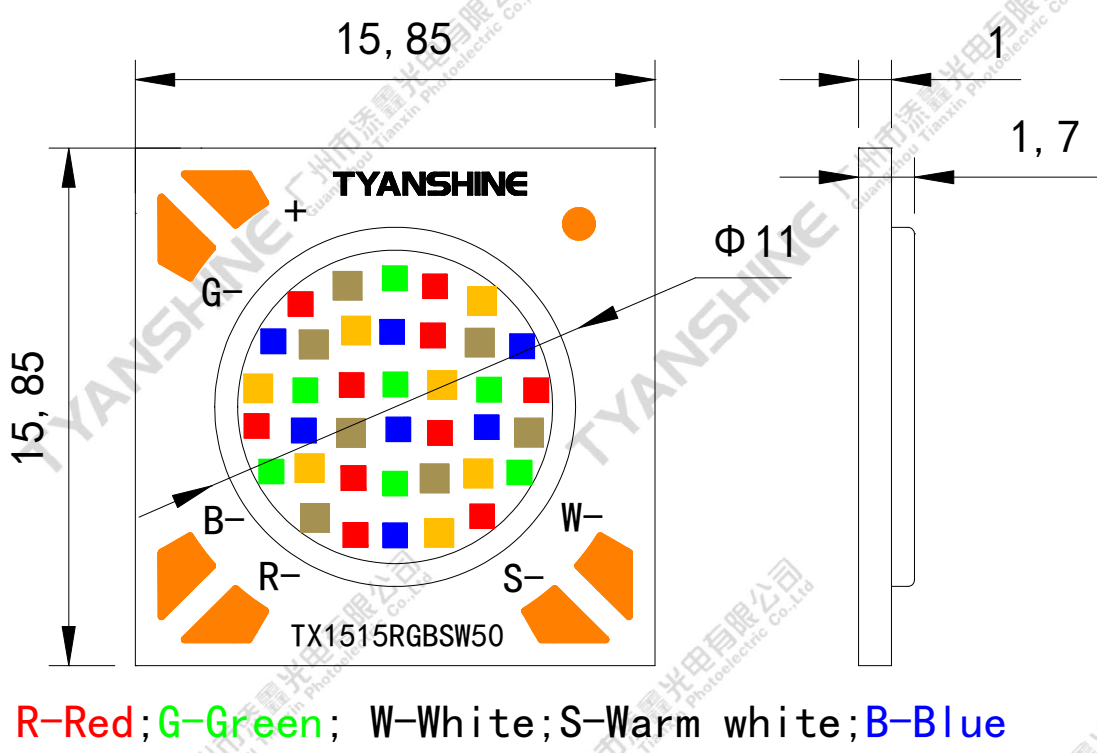
- ◆Red
- ◆Green
- ◆Blue
- ◆Warm White
- ◆ White

Applications:

- ◆Indoor lighting
- ◆Outdoor lighting
- ◆Industrial lighting
- ◆General Lighting
- ◆Commercial lighting

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Package Dimensions:



R-Red; G-Green; W-White; S-Warm white; B-Blue

Notes:

- 1.All dimensions are in millimeters .
- 2.Tolerances unless otherwise mentioned are $\pm 0.25\text{mm}$.

Absolute Maximum Ratings

Parameter	Symbol		MAX.	Unit
LED Junction Temperature	T_j		$R \leq 115$ $G/B/W/S \leq 150$	$^{\circ}\text{C}$
Power Dissipation	P_D	R	9	W
		G	10	
		B	10	
		W	13	
		S	13	
		R+B+G+W+S	50	
Continuous Forward Current	I_F	R	400	mA
		G	450	
		B	450	
		W	600	
		S	600	
Reverse Voltage	V_R		—	V
Case Temperature (C)	T_c		85	$^{\circ}\text{C}$
Electrostatic Discharge Threshold (ESD)	ESD		2000	V
Operating Temperature Range	T_{opr}		-30 to +85	$^{\circ}\text{C}$
Storage Temperature Range	T_{spr}		-30 to +80	

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.

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Electrical Optical Characteristics(T_c=25°C,R/G/B/S/W:IF=350mA)

Parameter	Symbol	Emitting Color	Values			Units
			Min.	Typ.	Max.	
Luminous Flux	ϕ_v	R	420	460	530	lm
		G	460	510	580	
		B	110	120	140	
		W	490	550	620	
		S	380	420	480	
Viewing Angle at 50 % IV	$2\theta_{1/2}$	R	—	115	—	Deg
		G	—	115	—	
		B	—	115	—	
		W	—	115	—	
		S	—	115	—	
Peak Emission Wavelength	λ_p	R	625	630	635	nm
		G	515	518	525	
		B	445	448	455	
Dominant Wavelength	λ_d	R	619	622	625	nm
		G	520	525	530	
		B	450	453	460	
Spectral Line Half-Width	$\Delta\lambda$	R	12	17	22	nm
		G	25	31	35	
		B	15	20	25	
Forward Voltage	V_f	R	19	21	23	V
		G	19	20	23	
		B	19	21	23	
		W	19	21	23	
		S	19	21	23	
Correlated Colour Temperature	CCT	W	6000	—	6500	K
		S	2670	—	2780	
Thermal Resistance Junction to Case	$R\theta_{J-C}$	—	—	0.83	—	K/W
Color Rendering Index	R_a	W	90	—	—	—
		S	90	—	—	

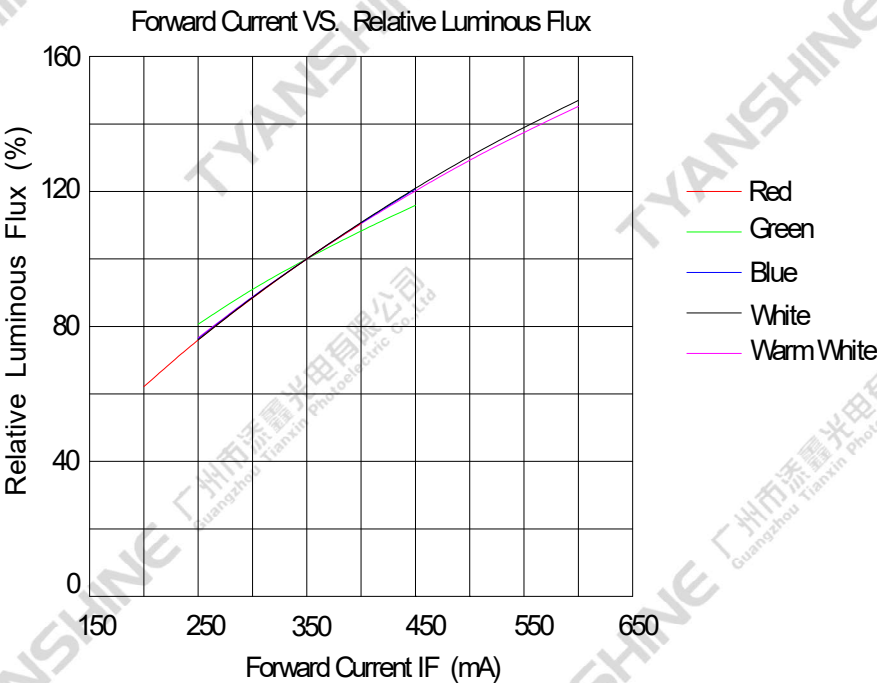
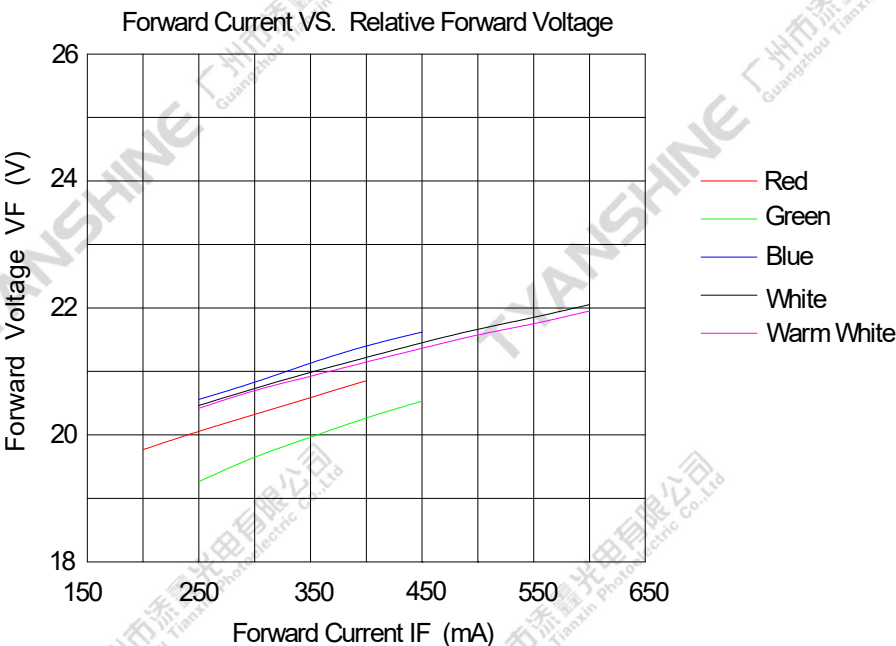
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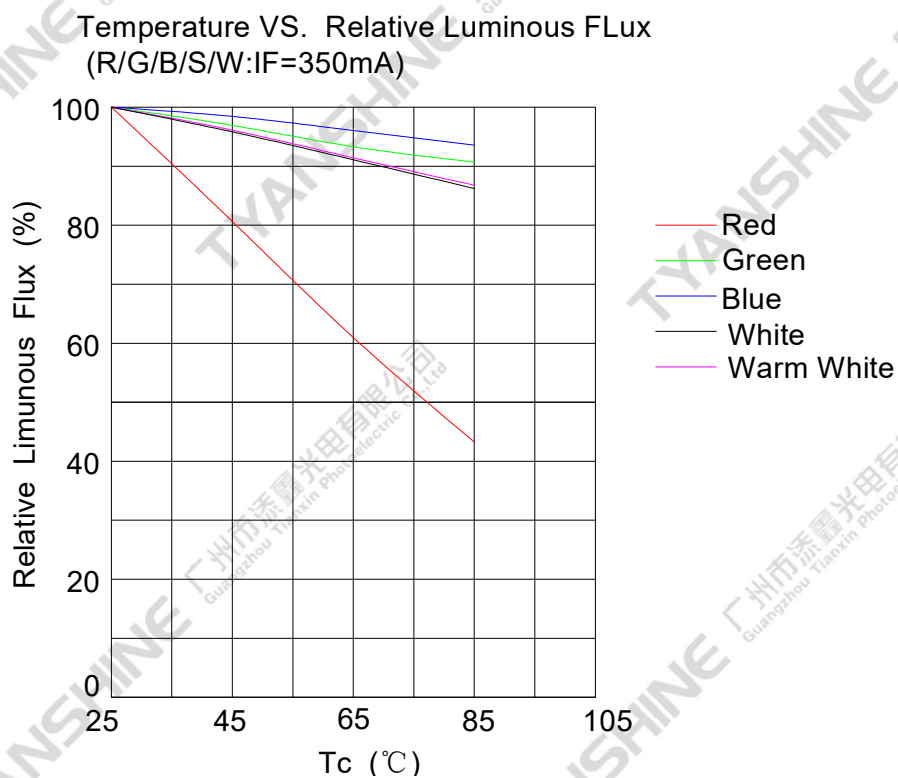
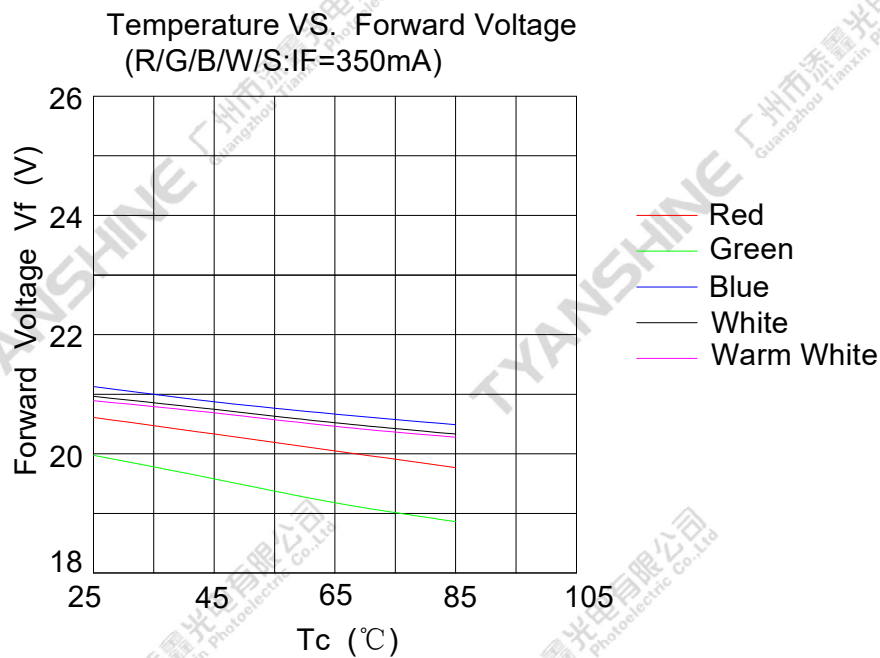
- 1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3.The dominant wavelength (λ_d) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.
- 4.Flux is measured with an accuracy of $\pm 15\%$.
- 5.Forward voltage is measured with an accuracy of $\pm 3\%$.

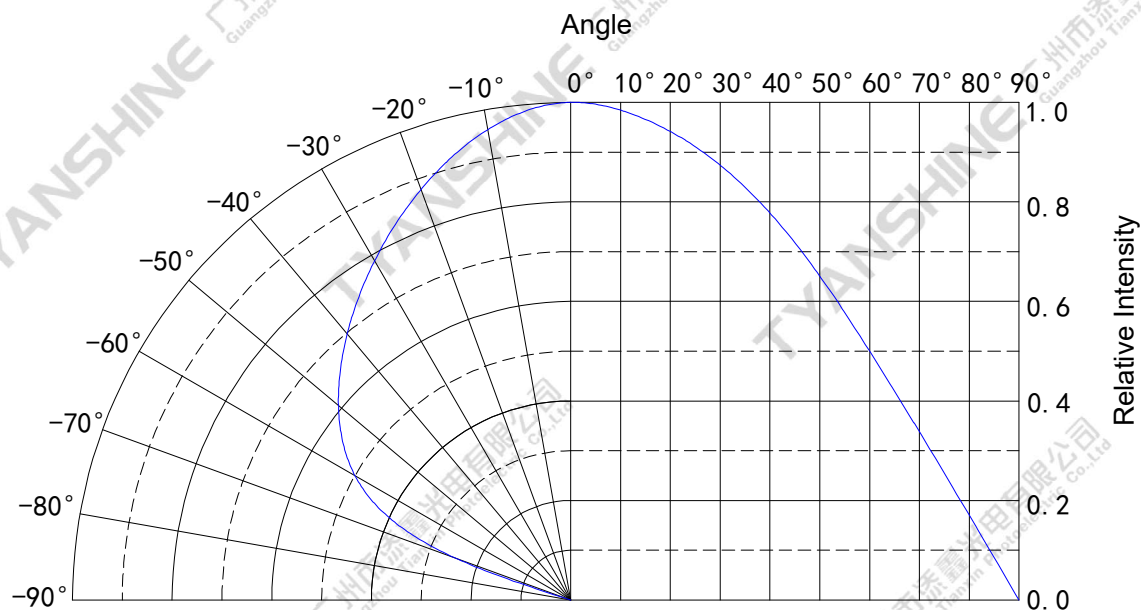
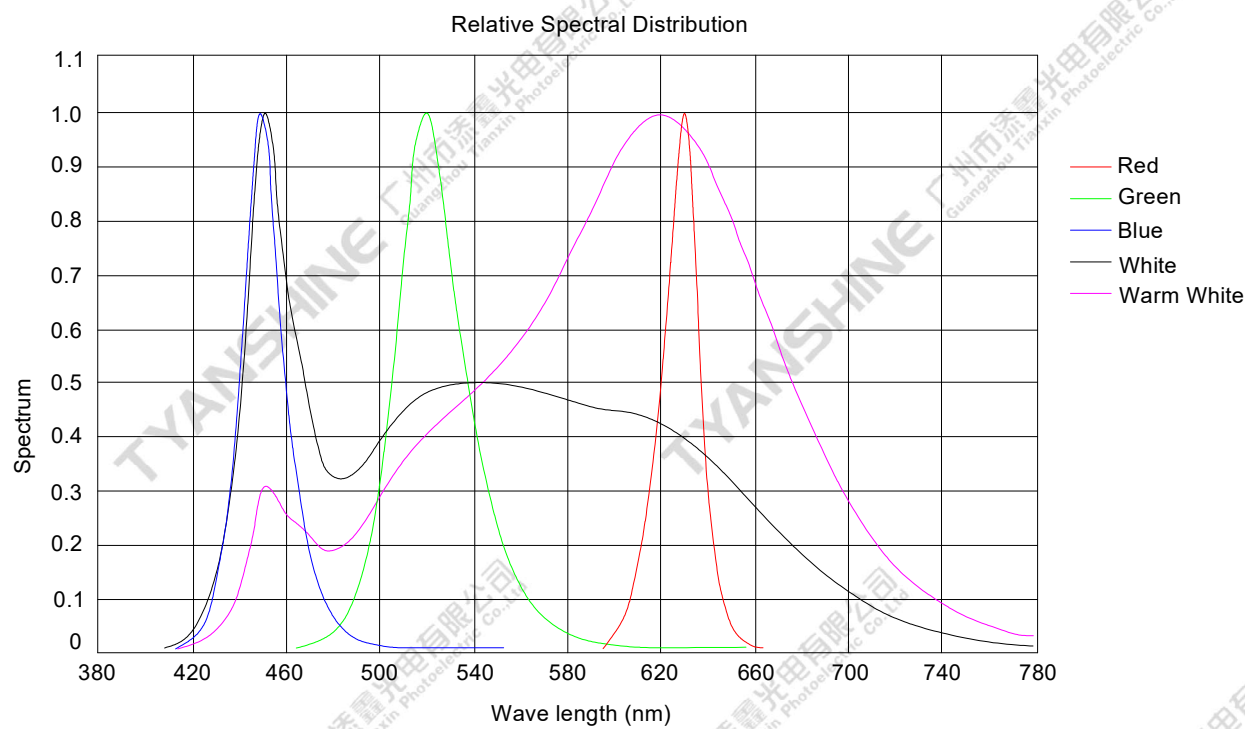
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Typical Electrical/Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)







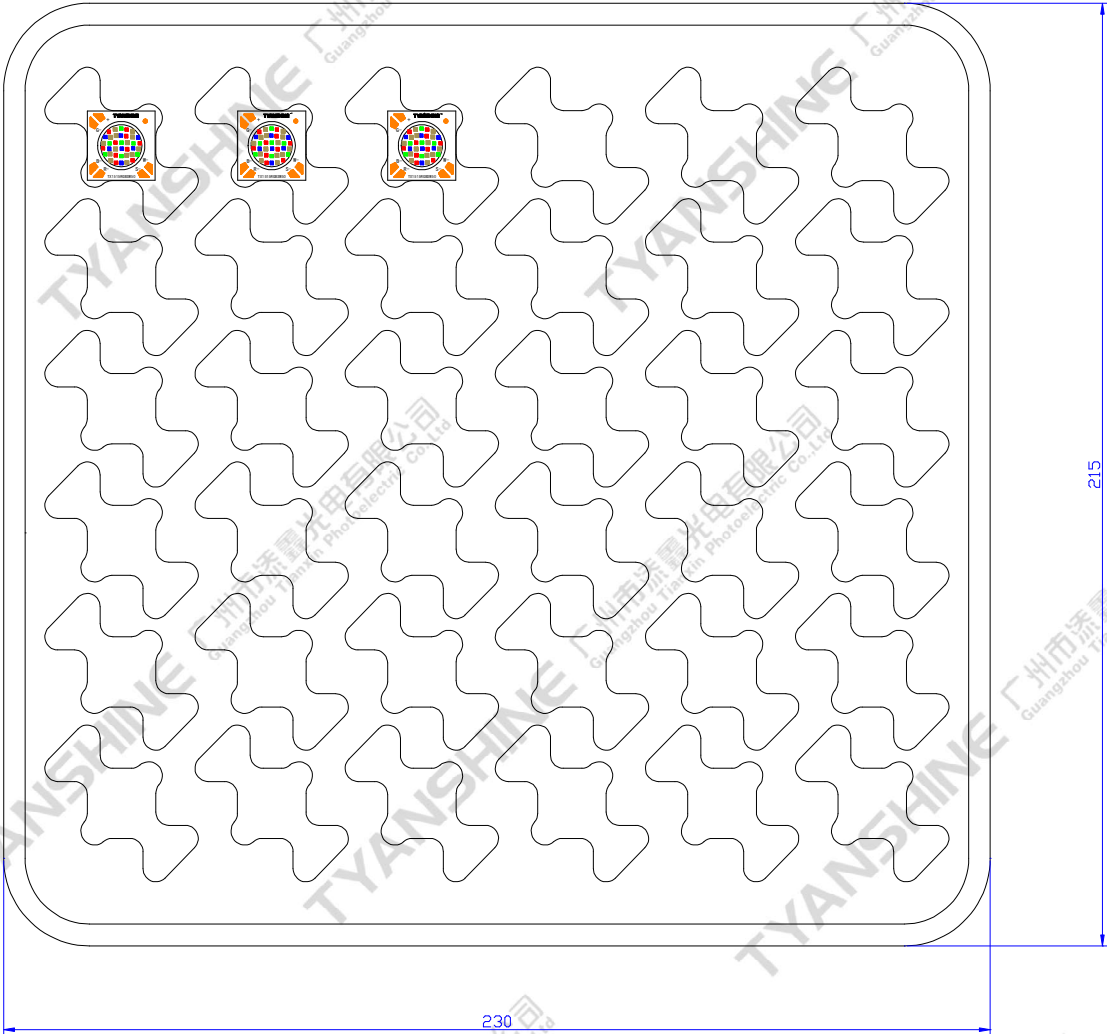
Notes:

- 2θ 1/2 is the off axis angle from lamp centerline where the luminous intensity is 1/2 of the peak value.
- View angle tolerance is ± 5.

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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.

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