

TX-1919RGBW70A12V12-30H90

PRODUCT SPECIFICATION

Features:

- ◆Excellent transiting heat from LED chip operating under R:450mA,G/B:500mA,W:700mA.
- ◆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
- ◆White:GaN

Emitting Color:

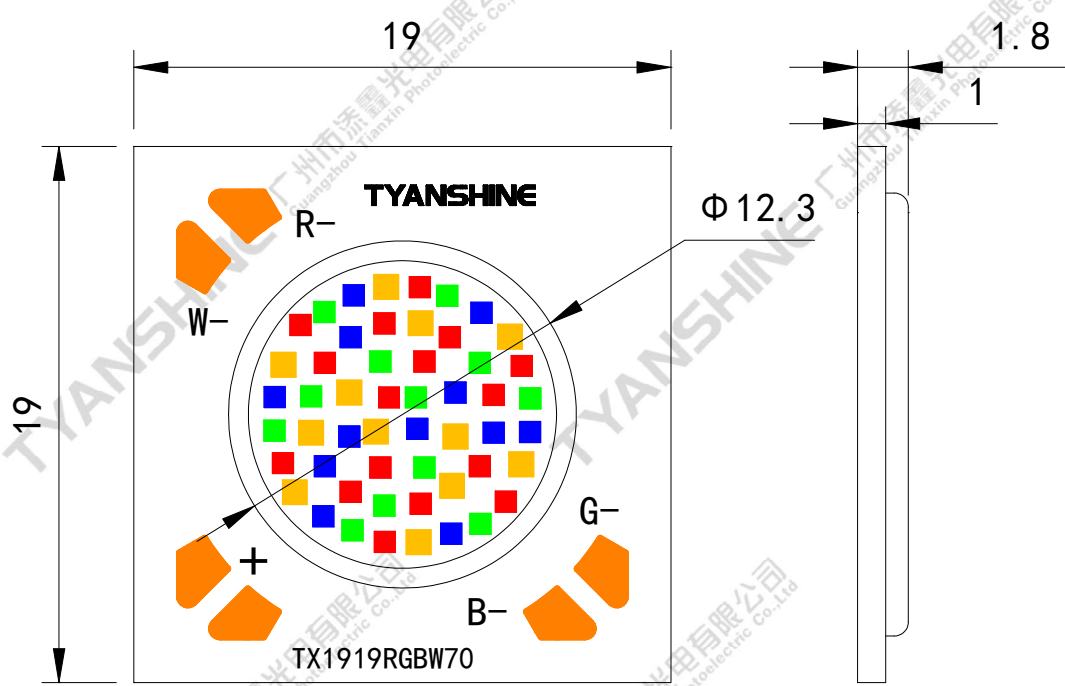
- ◆Red
- ◆Green
- ◆Blue
- ◆White

Applications:

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

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Package Dimensions:



R: Red; G: Green; W: 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 ≤ 115 G/B/W ≤ 150	°C
Power Dissipation	P _D	R	15	W
		G	19	
		B	19	
		W	27	
		R+B+G+W	70	
Continuous Forward Current	I _F	R	450	mA
		G	500	
		B	500	
		W	700	
Reverse Voltage	V _R		—	V
Case Temperature (C)	T _C		85	°C
Electrostatic Discharge Threshold (ESD)	ESD		2000	V
Operating Temperature Range	T _{opr}		-30 to +80	°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 ($T_c=25^{\circ}\text{C}$, R/G/B/W: IF=450mA)

Parameter	Symbol	Emitting Color	Values			Units
			Min.	Typ.	Max.	
Luminous Flux	Φ_v	R	680	770	890	lm
		G	950	1070	1240	
		B	220	250	290	
		W(3000K)	840	930	1060	
		W(6000K)	1020	1150	1300	
Viewing Angle at 50 % IV	$2\theta_{1/2}$	R	—	115	—	Deg
		G	—	115	—	
		B	—	115	—	
		W	—	115	—	
Peak Emission Wavelength	λ_p	R	625	632	635	nm
		G	515	519	525	
		B	445	449	455	
Dominant Wavelength	λ_d	R	618	623	625	nm
		G	520	526	530	
		B	450	454	460	
Spectral Line Half-Width	$\Delta\lambda$	R	10	18	20	nm
		G	25	32	35	
		B	15	21	25	
Forward Voltage	V_f	R	31	34	37	V
		G	33	36	39	
		B	33	36	39	
		W	33	36	39	
Correlated Colour Temperature	CCT	W	2920	—	3150	K
		W	6000	—	6500	
Thermal Resistance Junction to Case	$R\theta_{J-C}$	—	—	0.8	—	K/W
Color Rendering Index	Ra	W	90	—	—	—

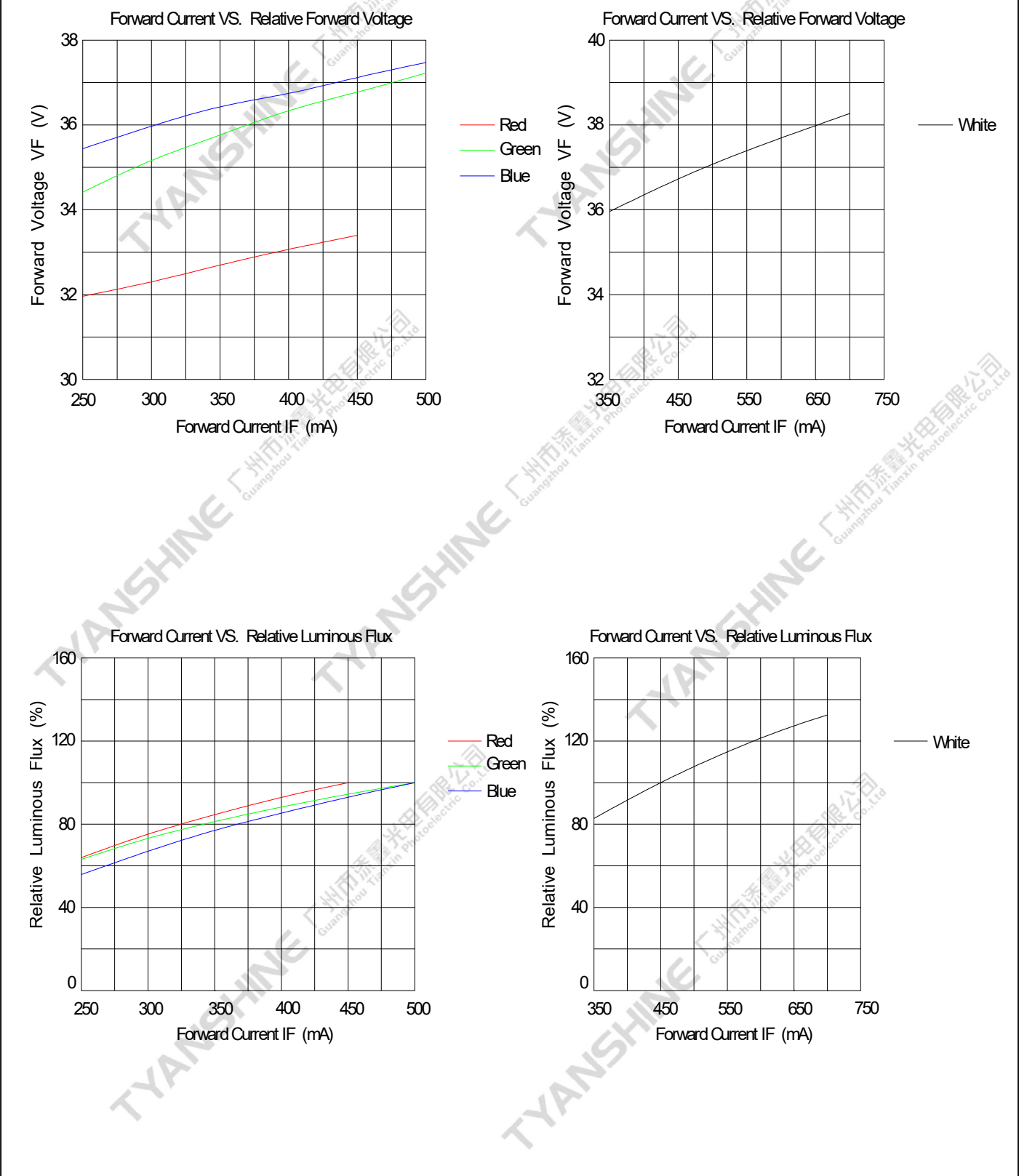
Notes:

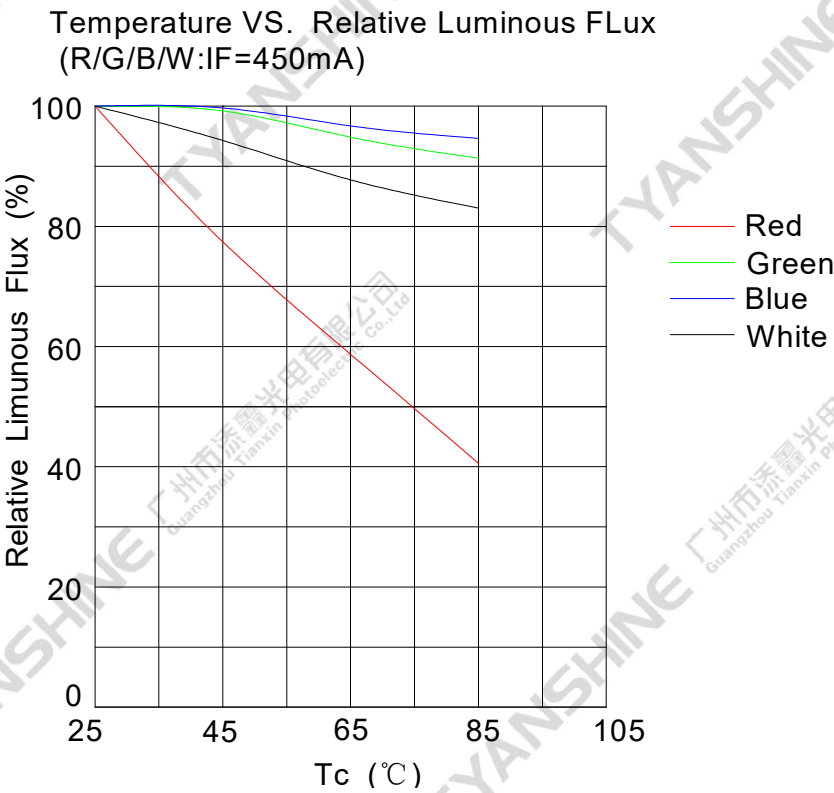
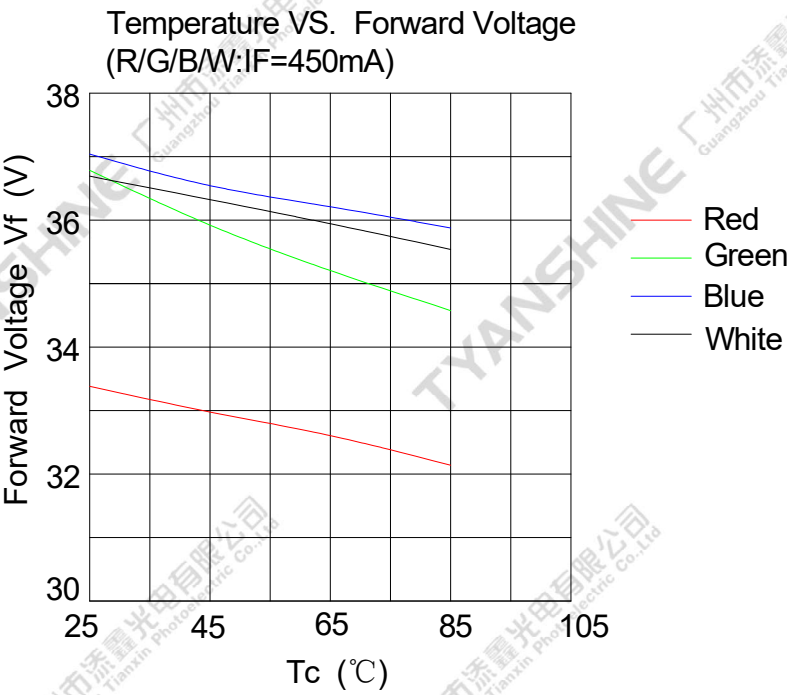
1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
3. The dominant wavelength (λ_d) is derived from the CIE chromaticity 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 $\pm 3\%$.

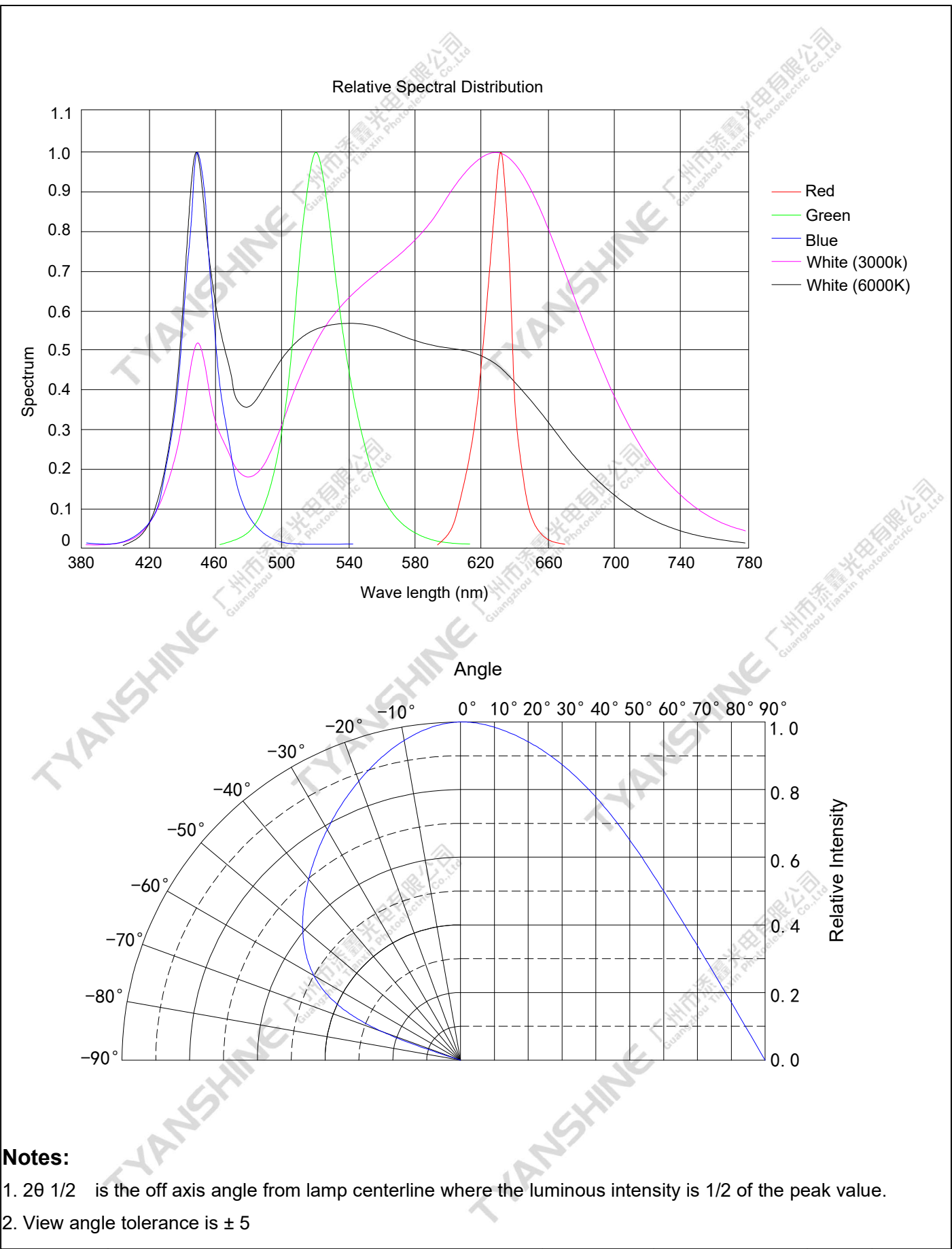
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Typical Electrical/Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)



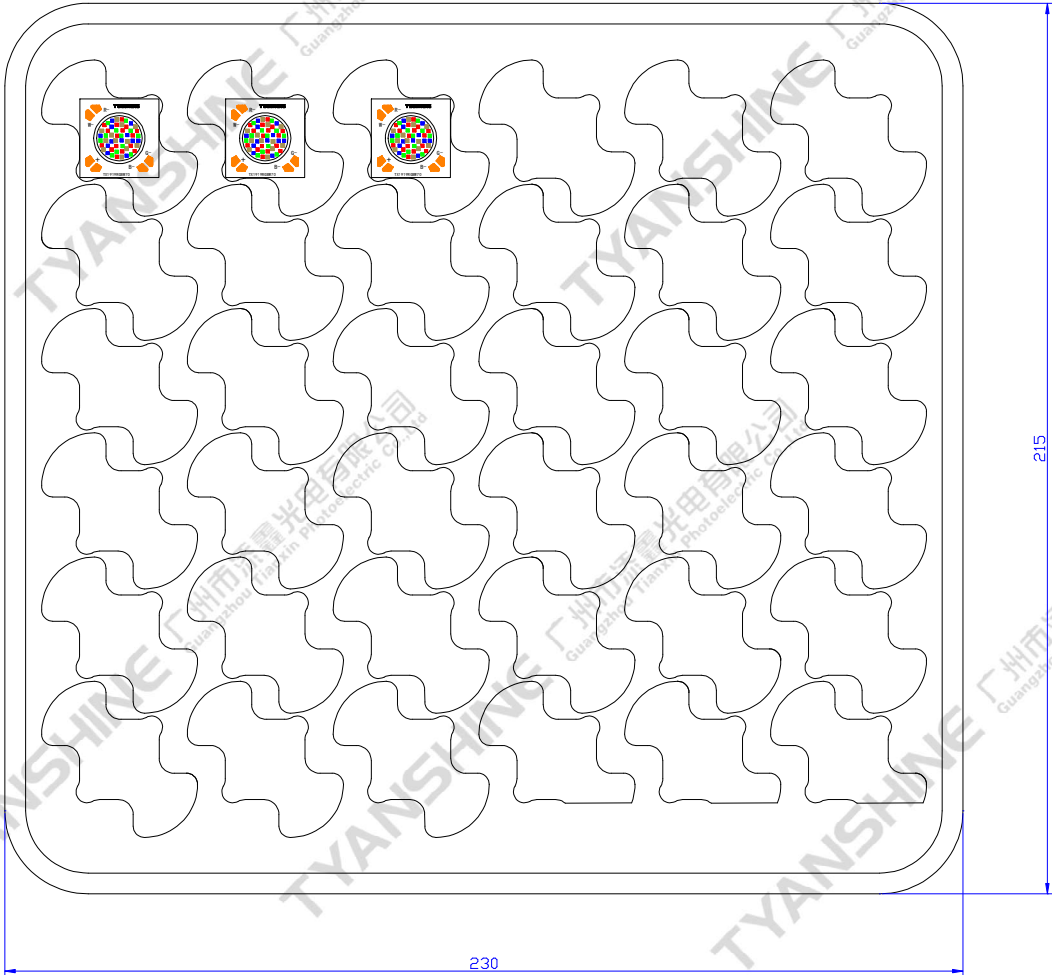




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Dimensions For Cannulation And Packaging

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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