

TX-3850RGBW120C20V07-01

RODUCT SPECIFICATION

Features:

- ◆Excellent transiting heat from LED chip operating under 1.6 A.
- ◆Mixing any two colors of light, there will be no partial color and color spots uneven phenomenon.
- ◆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:

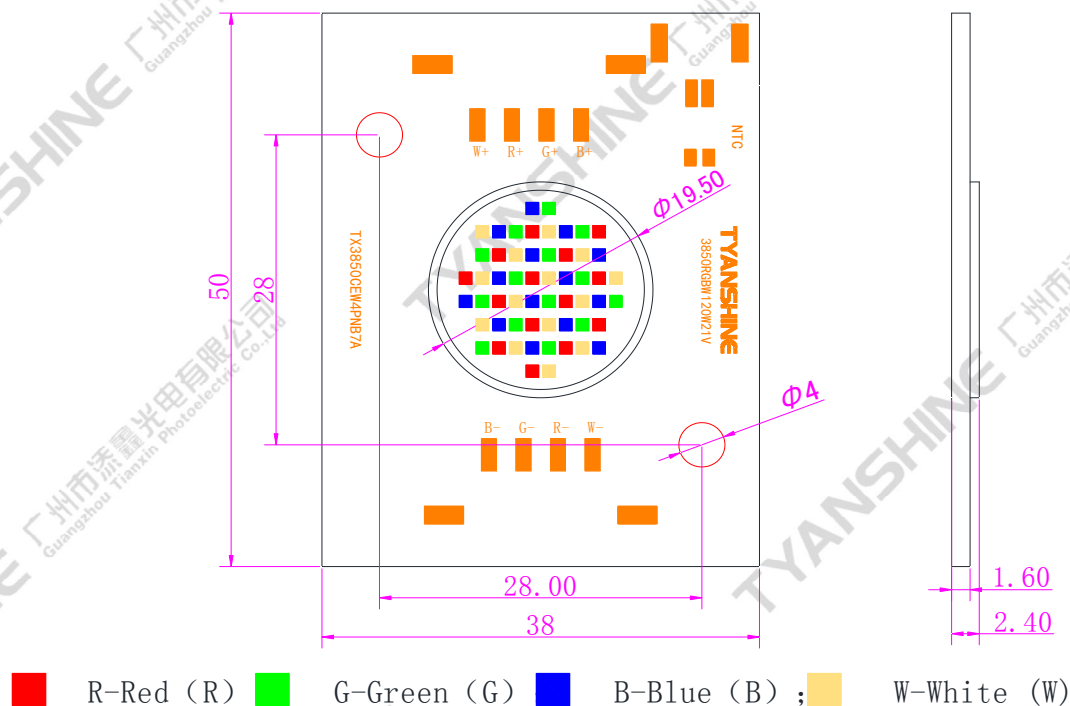
- ◆Red
- ◆Green
- ◆Blue
- ◆white

Applications:

- ◆Entertainment lighting
- ◆Landscape lighting
- ◆Commercial lighting
- ◆Decorative lighting

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Package Dimensions:



Notes:

- 1.All dimensions are in millimeters .
- 2.Tolerances unless otherwise mentioned are $\pm 0.2\text{mm}$.

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Absolute Maximum Ratings (Tc=25℃)

Parameter	Symbol	Ratings	Unit
Forward Current	IF	1.6	A
Reverse Voltage	VR	Not designed for reverse operation	V
Power Dissipation	PD	R	28800
		G	38400
		B	38400
		W	38400
Junction Temperature	Tj	R	115
		G	135
		B	135
		W	135
Electrostatic Discharge Threshold (ESD)	ESD	2000	V
Storage Temperature	Tstg	-30~+70	℃
Operation Temperature	Topr	-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.

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Electrical Optical Characteristics (Tc=25°C)

Parameter	Symbol	Condition	Emitting Color	Min.	Typ.	Max.	Units
Luminous Flux	ϕ_v	If=1.4A	R	1100	1400	—	lm
			G	2100	2400	—	
			B	500	600	—	
			W	2400	2700	—	
Dominant Wavelength	λ_d		R	620	625	628	nm
			G	524	528	532	
			B	455	457	461	
Correlated Colour Temperature	CCT		W	6000	6500	7000	K
Peak-emission Wavelength	λ_p		R	632	637	640	nm
			G	520	524	530	
			B	445	451	456	
Spectral Line Half-Width	$\triangle\lambda$		R	15	17.5	20	nm
			G	30	35	40	
			B	20	23	26	
			W	24	28	30	
Forward Voltage	V_f		R	14	16	18	V
			G	20	22	24	
			B	20	22	24	
			W	20	22	24	
Viewing Angle at 50 % IV	$2\theta_{1/2}$	—	—	—	115	—	Deg
Thermal Resistance Junction to Case	$R\theta_{J-C}$	—	R	—	0.08	—	K/W
			G	—	0.07	—	
			B	—	0.07	—	
			W	—	0.07	—	

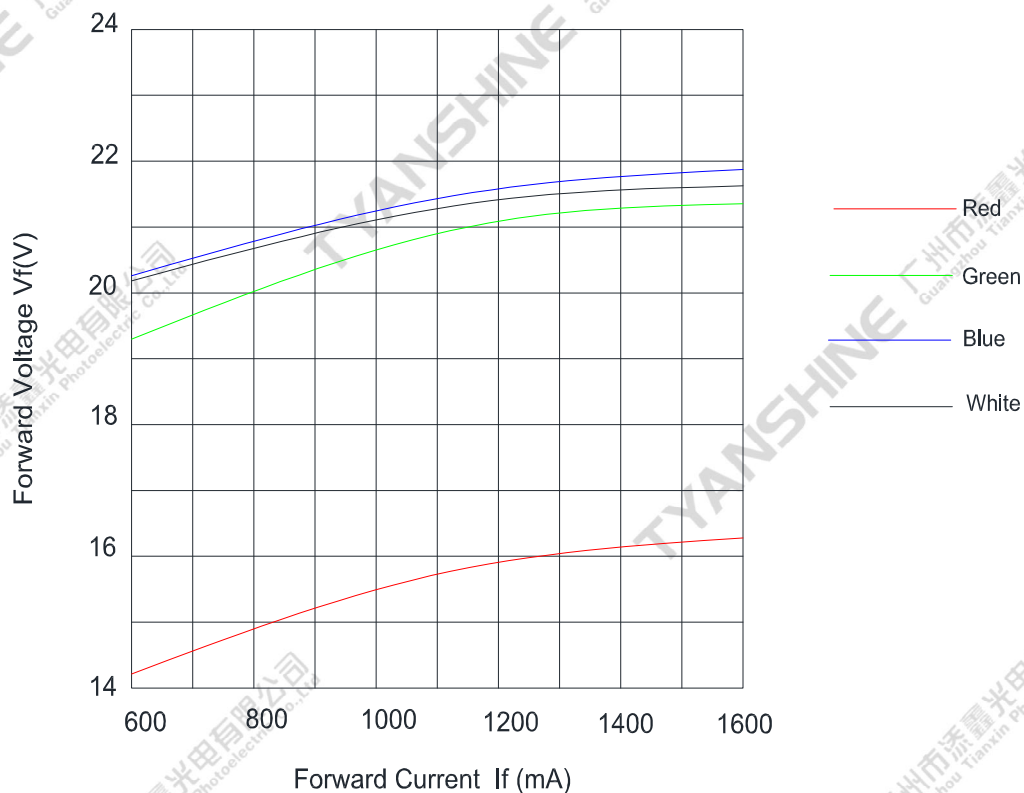
Notes:

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: $\pm 0.15V$.

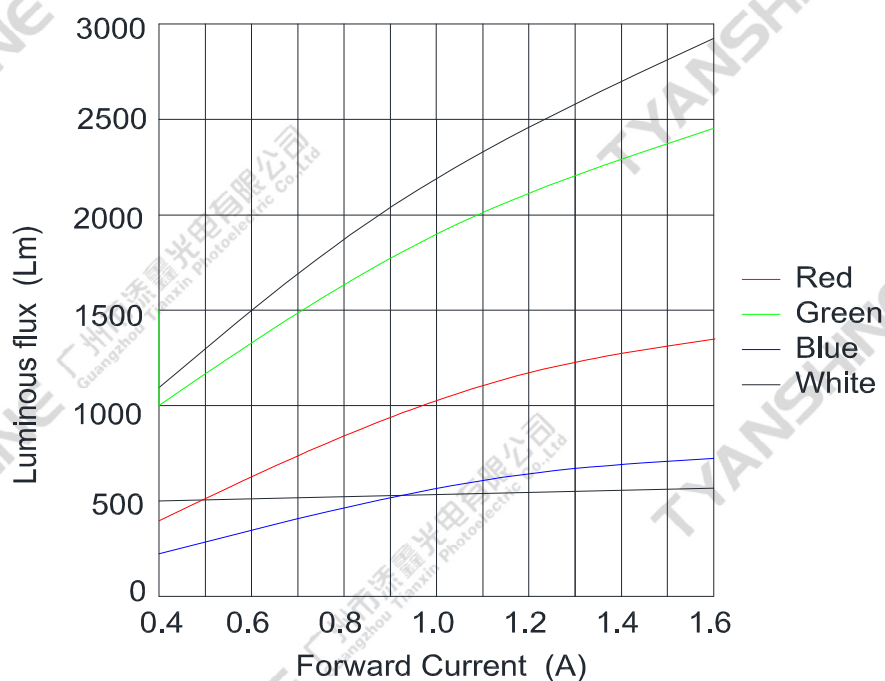
Typical Electrical/Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

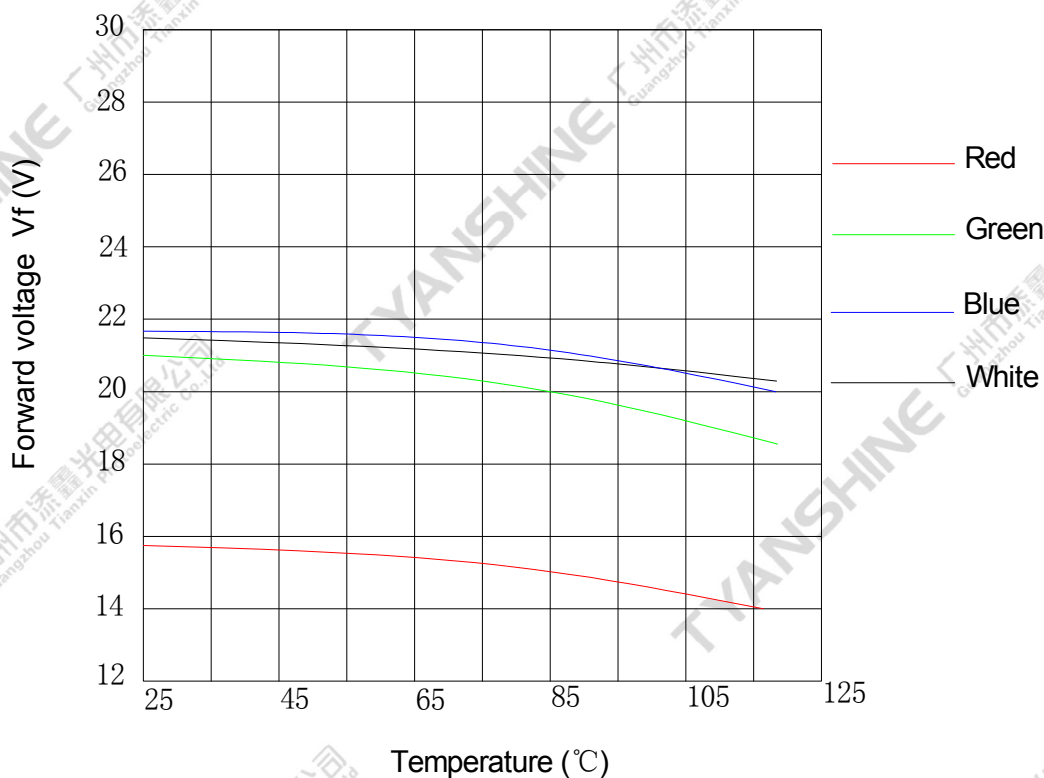
Forward Current VS. Forward Voltage



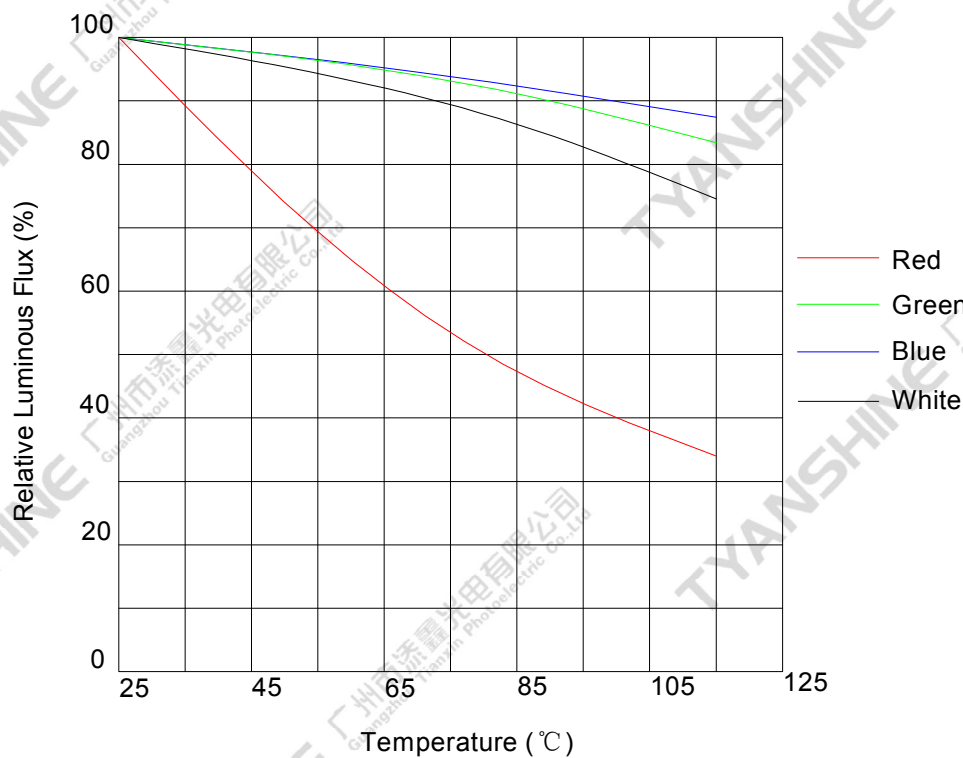
Forward Current VS. Luminous flux

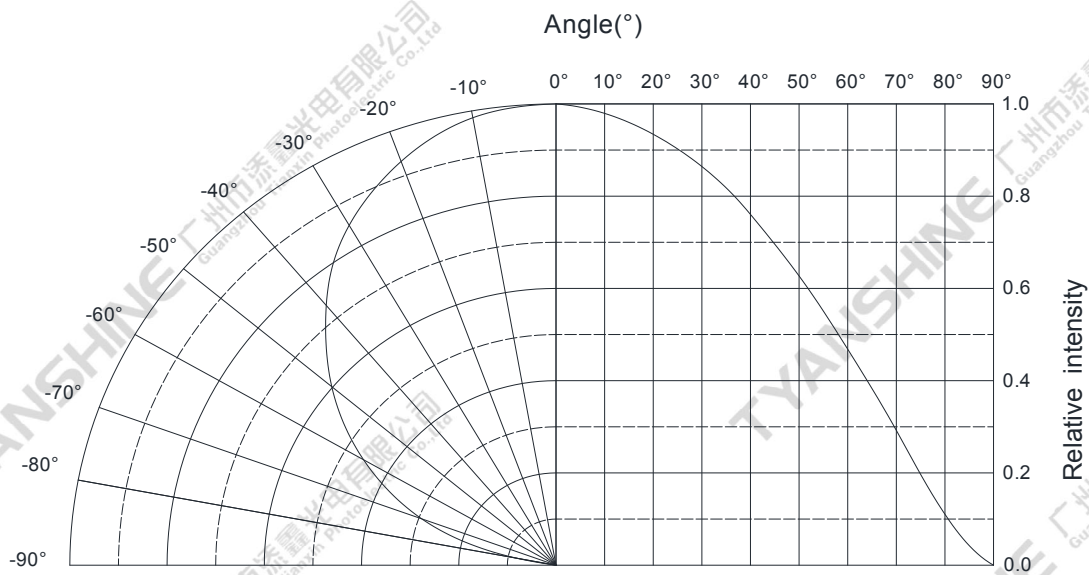
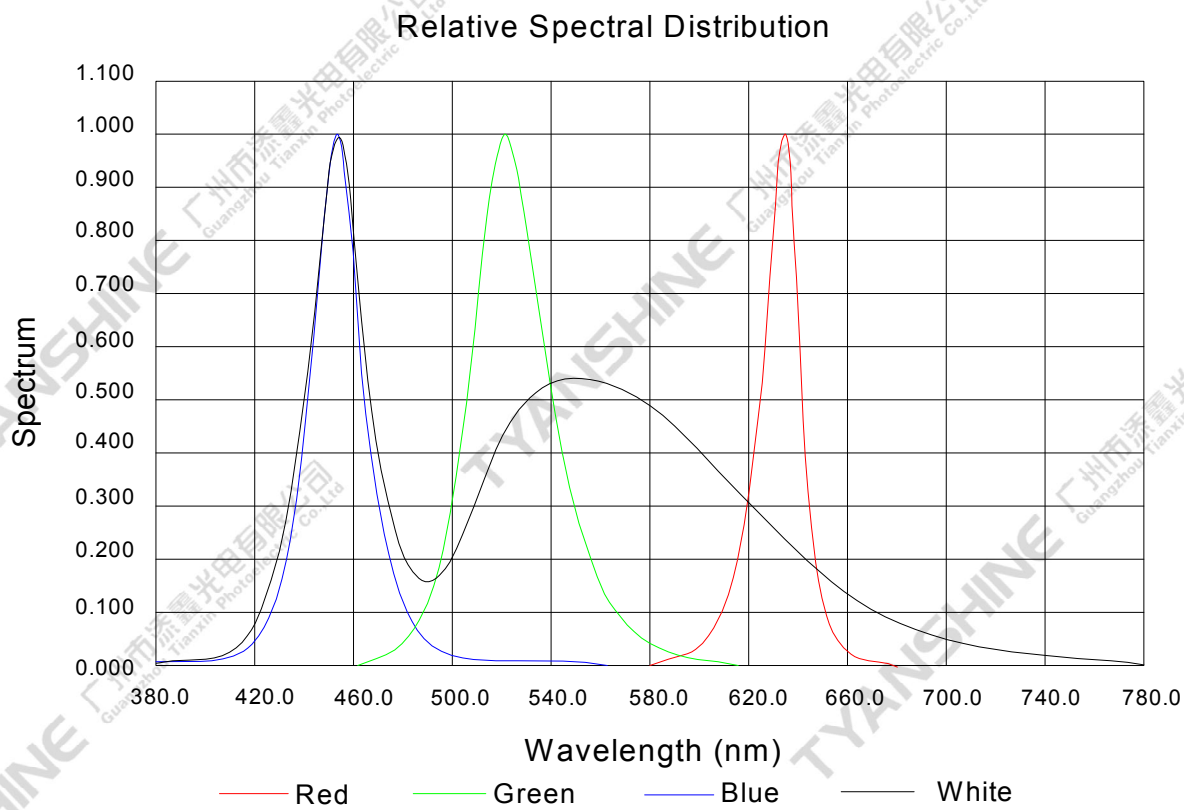


Temperature VS. Forward Voltage (IF=1.4A)



Temperature VS. Relative Luminous Flux (IF=1.4A)



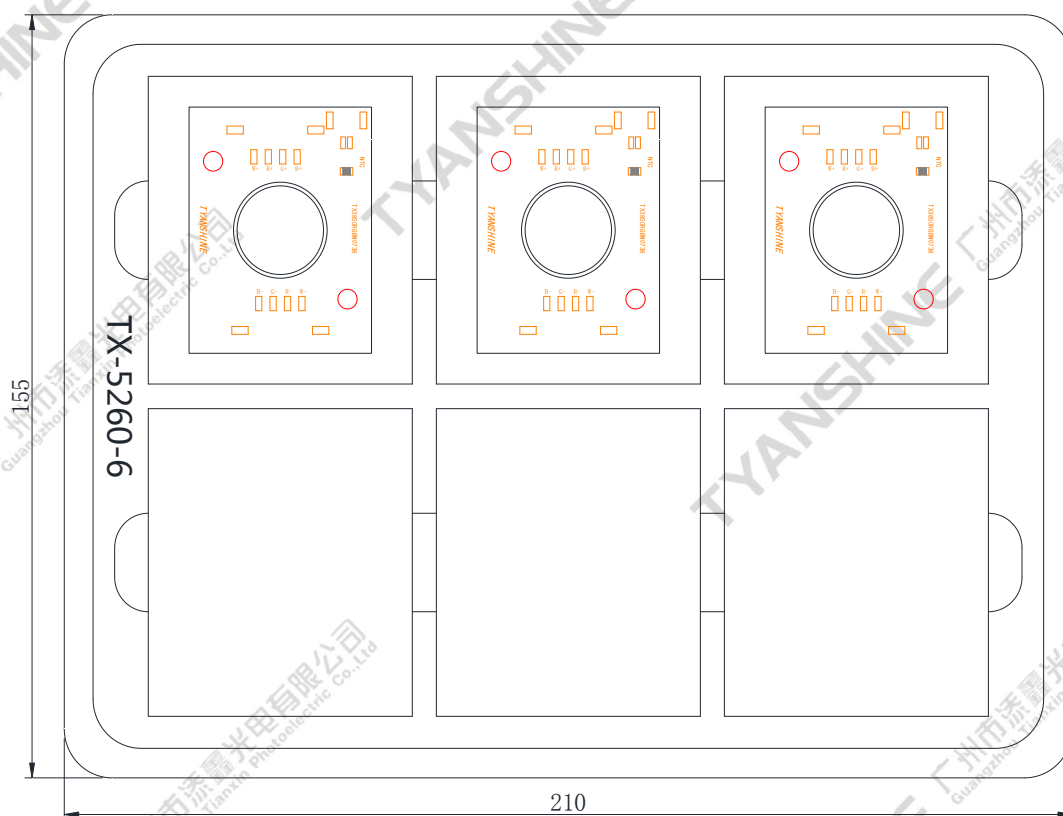


Notes:

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: 6PCS



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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