

TX-2844RGBW80C14V08-01

PRODUCT SPECIFICATION

Features:

- ◆Excellent transiting heat from LED chip operating under 1000 mA.
- ◆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:

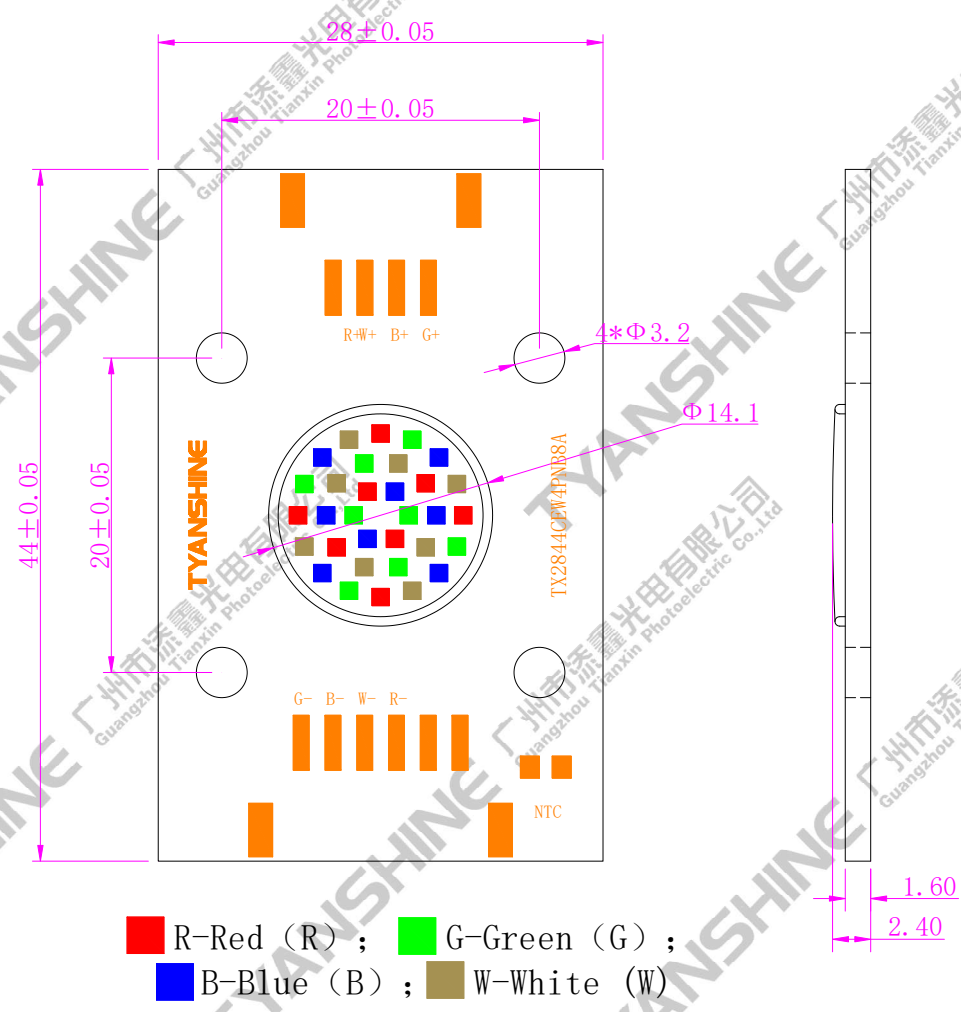
- ◆Red
- ◆Green
- ◆Blue
- ◆White

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 ± 0.1 mm .

Absolute Maximum Ratings (Tc=25℃)

Parameter	Symbol	Ratings	Unit
Forward Current	IF	R	1000
		G	1000
		B	1000
		W	1000
Reverse Voltage	VR	Not designed for reverse operation	V
Power Dissipation	PD	R	20000
		G	26000
		B	26000
		W	26000
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~+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 (Tc=25°C)

Parameter	Symbol	Condition	Emitting Color	Min.	Typ.	Max.	Units
Luminous Flux	φ_v	If=800mA	R	800	900	—	lm
			G	1300	1500	—	
			B	300	350	—	
			W	1550	1750	—	
Dominant Wavelength	λ_d		R	618	625	628	nm
			G	522	527	532	
			B	452	456	460	
Peak-emission Wavelength	λ_p		R	632	637	642	nm
			G	516	521	526	
			B	448	452	456	
Correlated Colour Temperature	CCT		W	6000	6500	7000	K
Spectral Line Half-Width	$\Delta\lambda$		R	13	17	21	nm
			G	31	36	41	
			B	17	22	27	
			W	12	16	20	
Forward Voltage	V_f		R	16	18	20	V
			G	23	25	27	
			B	23	25	27	
			W	23	25	27	
Viewing Angle at 50 % IV	$2\theta_{1/2}$	—	—	—	120	—	Deg
Thermal Resistance Junction to Case	$R\theta_{J-C}$	—	R	—	1.11	—	K/W
			G	—	1.11	—	
			B	—	1.11	—	
			W	—	1.11	—	
Temperature Coefficient of Voltage	$V\Delta F/T$	If=800mA	R	—	-15	—	mV/℃
			G	—	-25.3	—	
			B	—	-13.3	—	
			W	—	-12.9	—	

Notes:

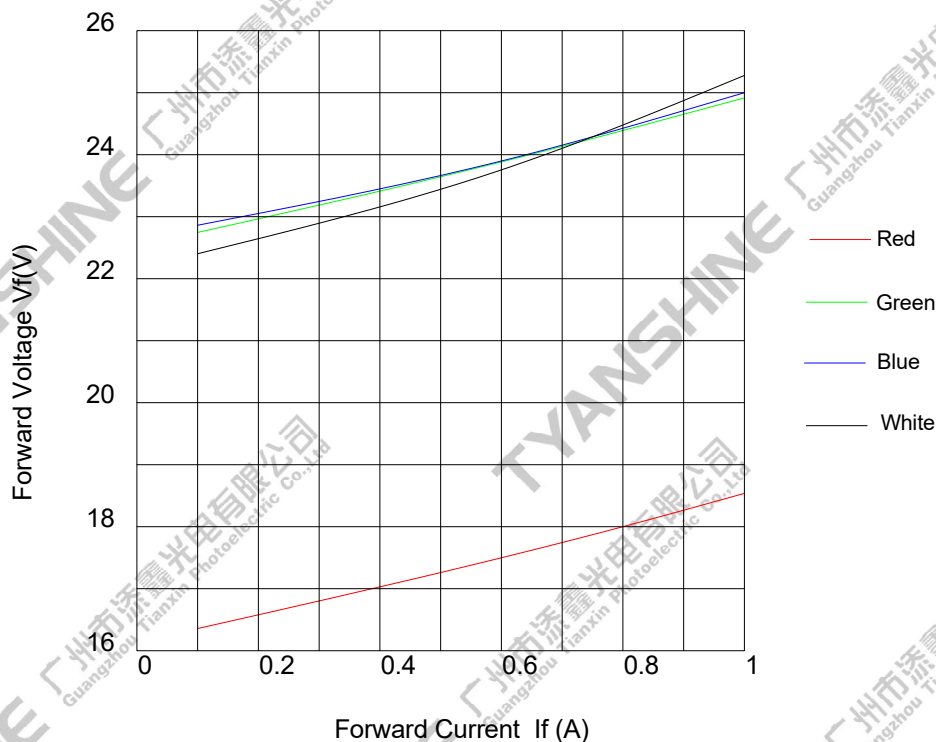
- 1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3.Luminous flux measurement tolerance:±15%.
- 4.Forward voltage measurement tolerance:±0.15V.

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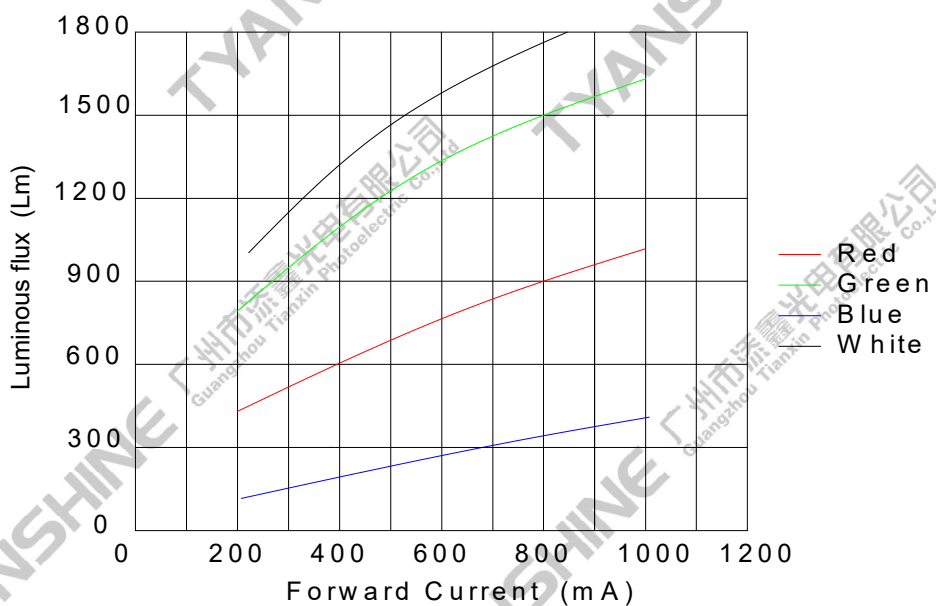
Typical Electrical/Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

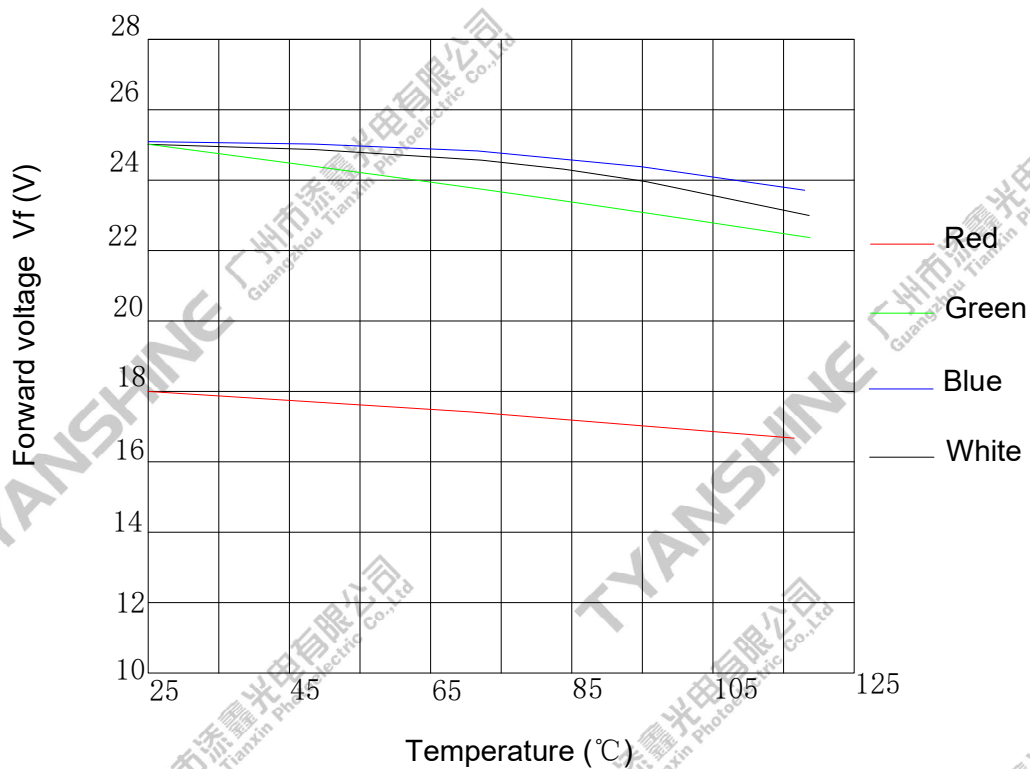
Forward Voltage VS. Forward Current



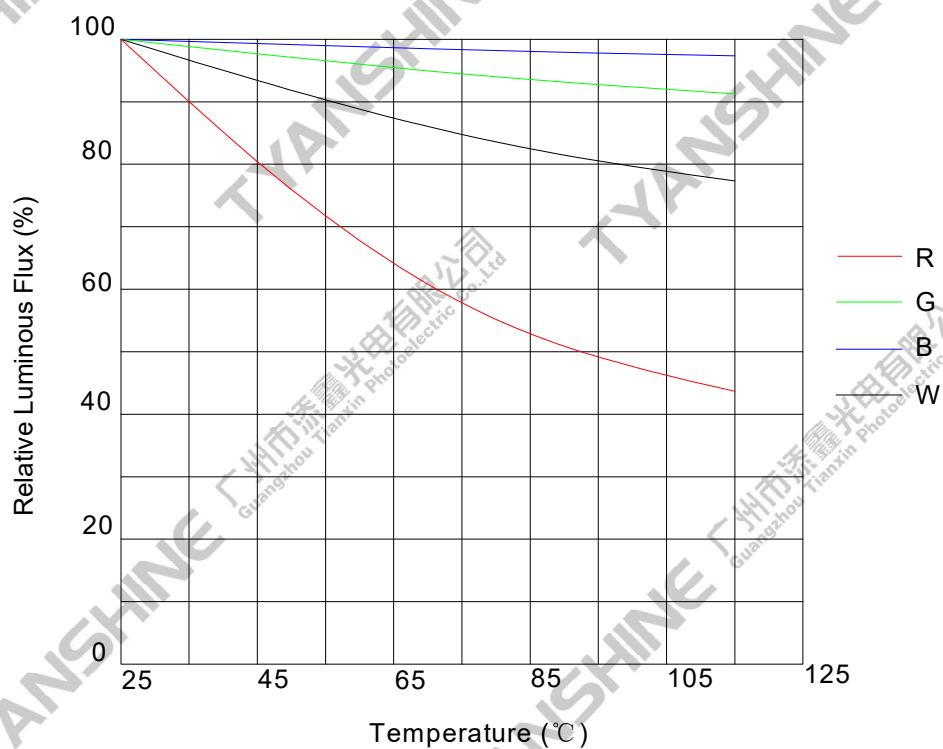
Forward Current VS. Luminous flux



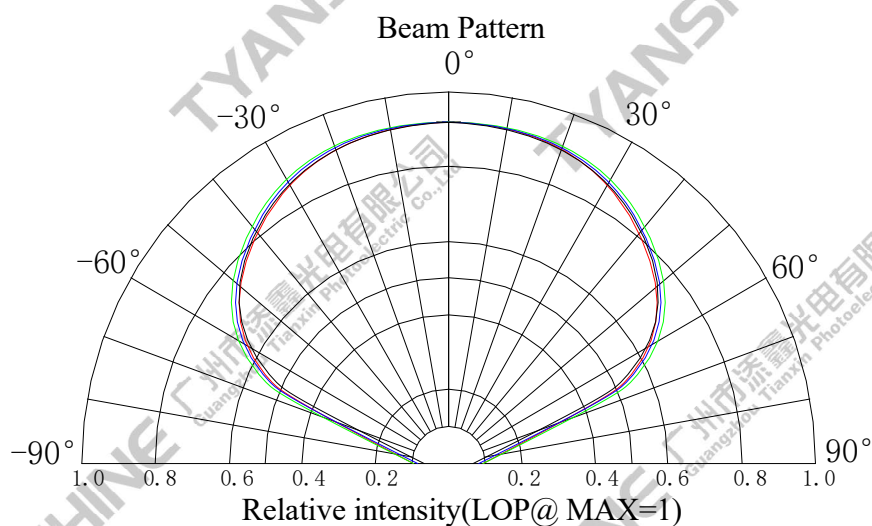
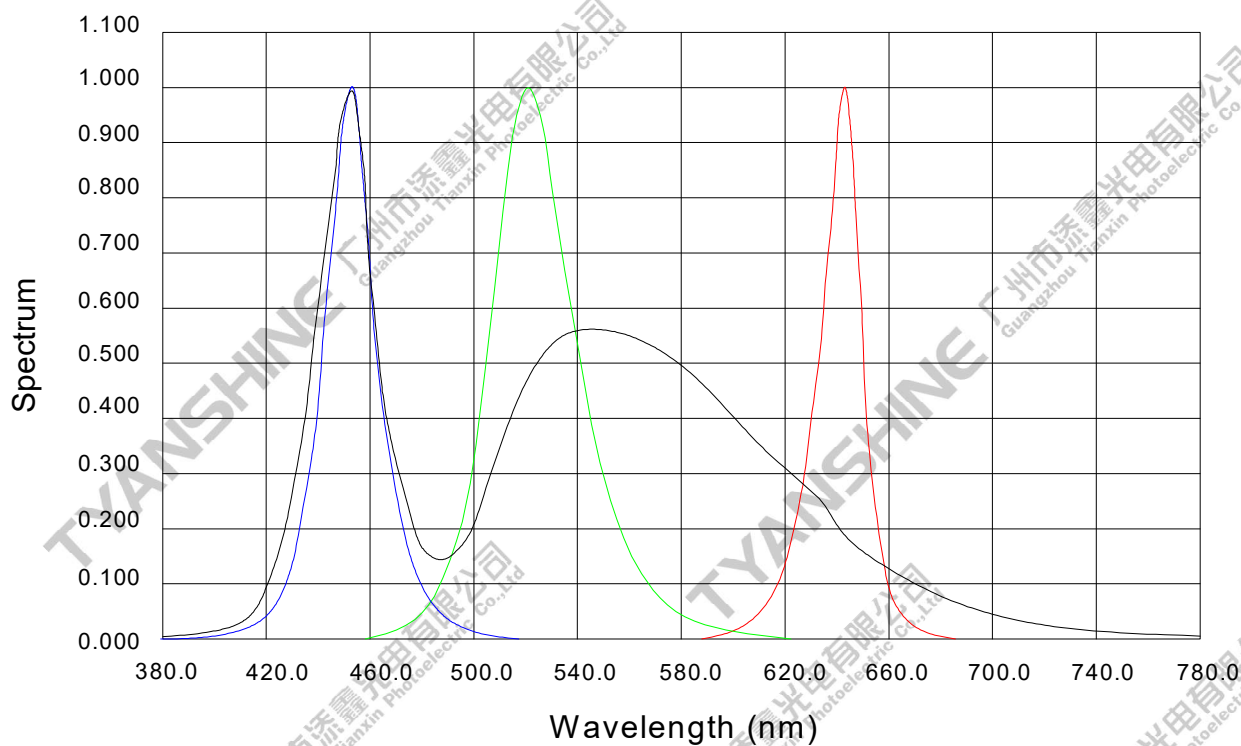
Temperature VS. Forward Voltage (IF=800mA)



Temperature VS. Relative Luminous Flux (IF=800mA)



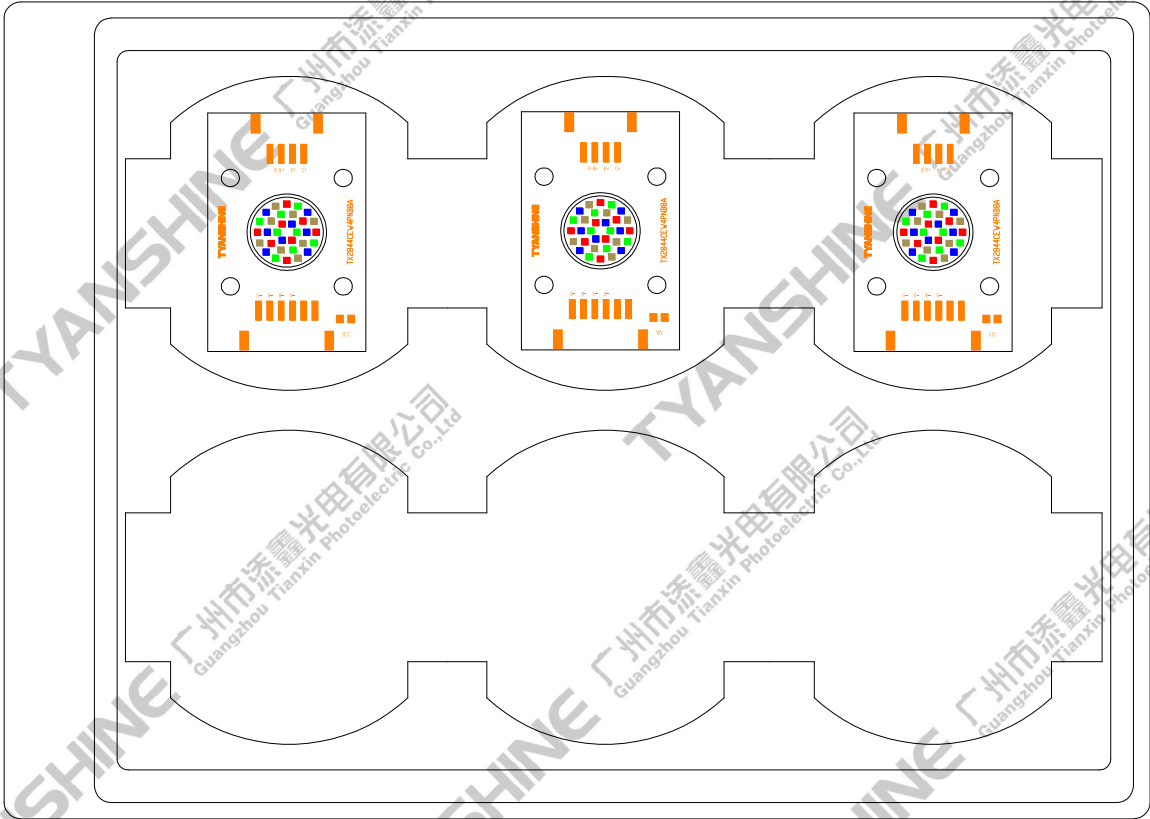
Relative Spectral Distribution

**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.