

# TX-5260RGBW200D180-002

## PRODUCT SPECIFICATION

### Features:

- ◆ Excellent transiting heat from LED chip operating under 1.5 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

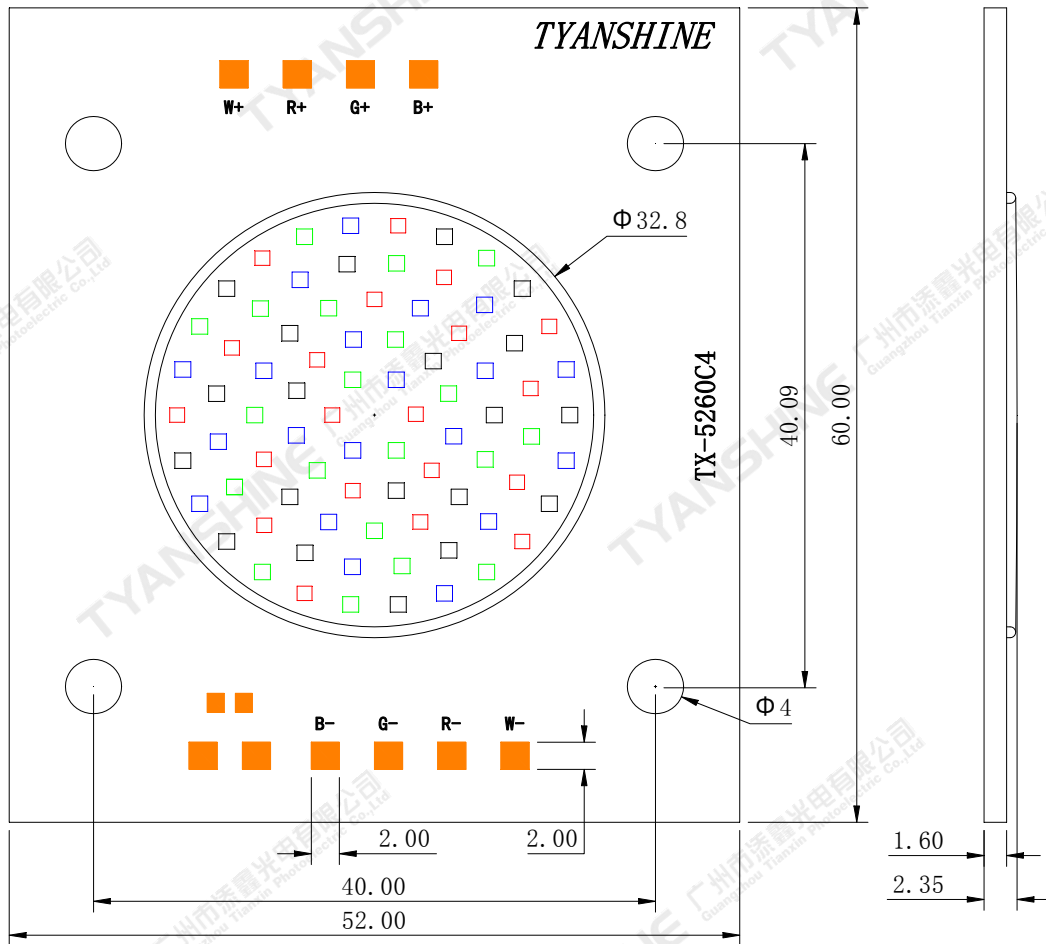
### Emitting Color:

- ◆ Red
- ◆ Green
- ◆ Blue
- ◆ white

### Applications:

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

**Package Dimensions:**



**Notes:**

- 1.All dimensions are in millimeters .
- 2.Tolerances unless otherwise mentioned are  $\pm 0.1$ mm .

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**Absolute Maximum Ratings (Tc=25°C)**

Parameter	Symbol	Ratings	Unit	
Forward Current	IF	1.5	A	
Reverse Voltage	VR	Not designed for reverse operation	V	
Power Dissipation	PD	R	42500	mW
		G	57800	
		B	57800	
		W	57800	
Junction Temperature	Tj	R	115	°C
		G	150	
		B	150	
		W	150	
Electrostatic Discharge Threshold (ESD)	ESD	2000	V	
Storage Temperature	Tstg	-20~+65	°C	
Operation Temperature	Topr	-40~+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 (Tc=25°C)**

Parameter	Symbol	Condition	Emitting Color	Min.	Typ.	Max.	Units
Luminous Flux	$\phi_v$	If=1.5A	R	1300	1600	1950	lm
			G	3000	3250	3500	
			B	700	760	820	
			W	3200	3400	3700	
Dominant Wavelength	$\lambda_d$		R	620	625	630	nm
			G	520	525	530	
			B	454	460	465	
Correlated Colour Temperature	CCT		W	5500	6500	7500	K
Peak-emission Wavelength	$\lambda_p$		R	627	632	637	nm
			G	515	520	525	
			B	450	455	460	
Spectral Line Half-Width	$\Delta\lambda$		R	15	20	25	nm
		G	25	30	35		
		B	15	20	25		
		W	15	20	25		
Forward Voltage	$V_f$	R	21	23	25	V	
		G	29	32	34		
		B	29	32	34		
		W	29	32	34		
Viewing Angle at 50 % IV	$2\theta_{1/2}$	—	—	—	120	—	Deg
Thermal Resistance Junction to Case	$R_{\theta_{J-C}}$	—	—	—	0.2	—	K/W
Temperature Coefficient of Voltage	$V\Delta F/T$	—	—	—	-2	—	mV/°C

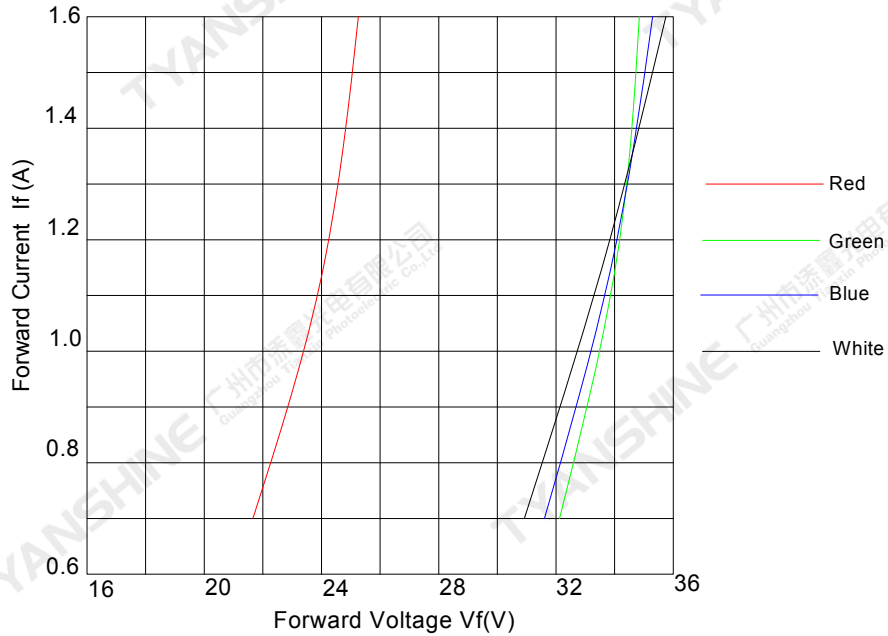
**Notes:**

- 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.

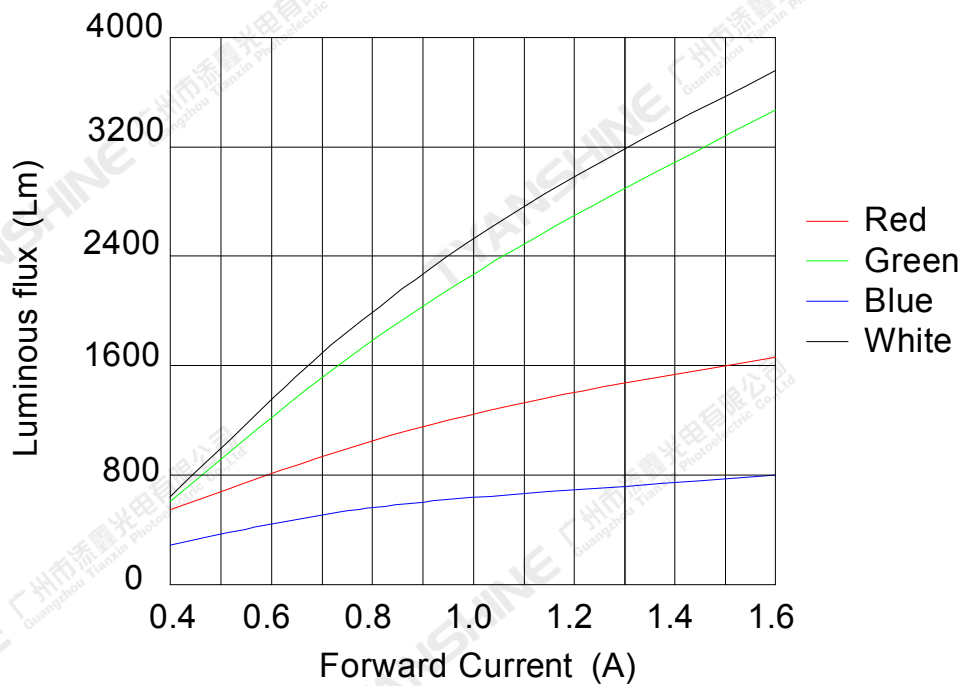
## Typical Electrical/Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

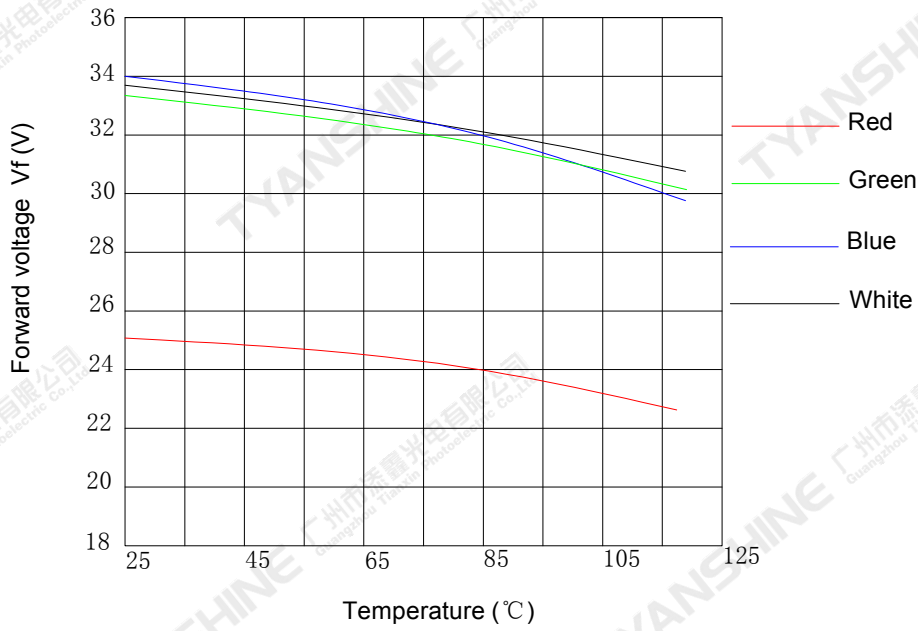
Forward Current VS. Forward Voltage



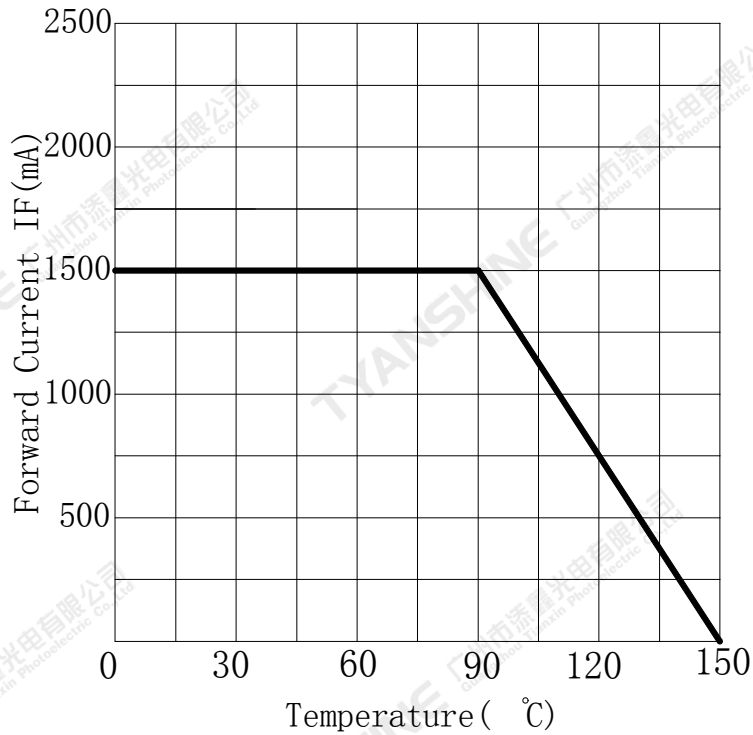
Forward Current VS. Luminous flux

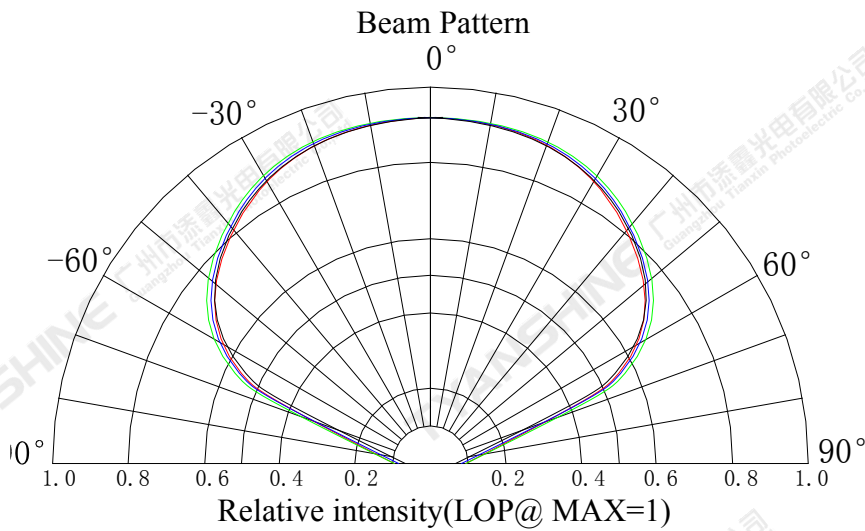
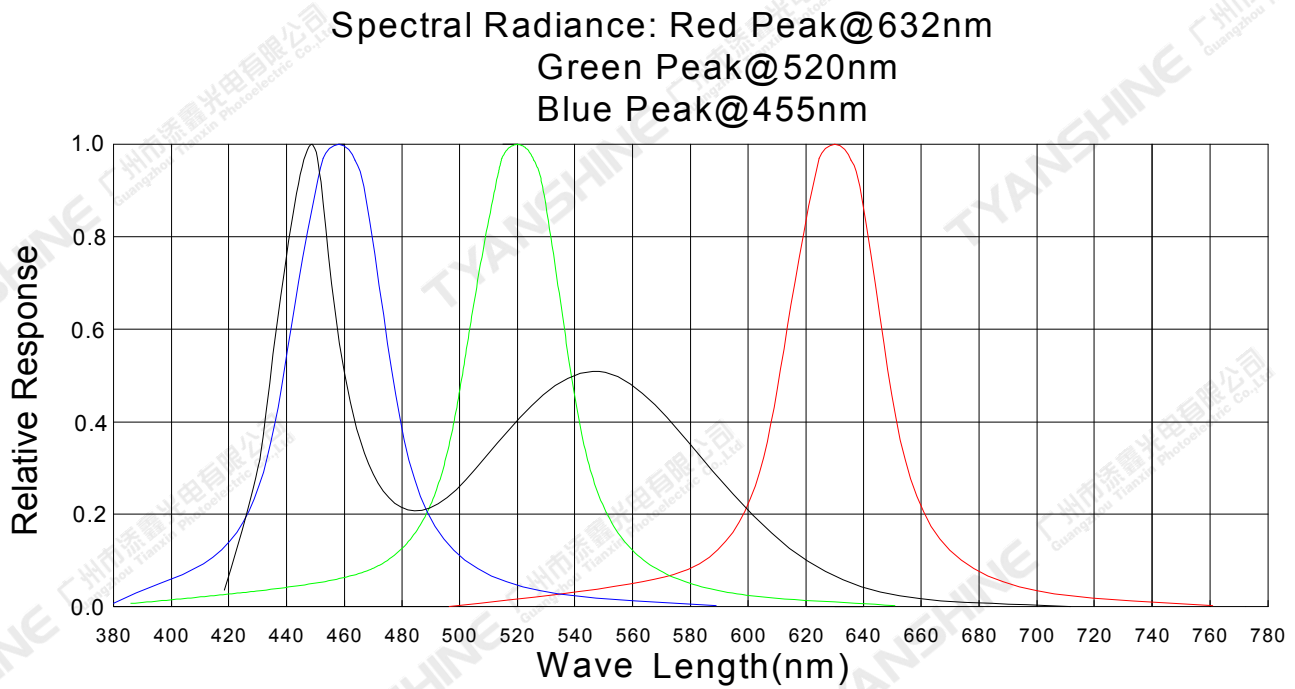


Temperature VS. Forward Voltage (IF=1.5A)



Ambient Temperature VS. Forward Current





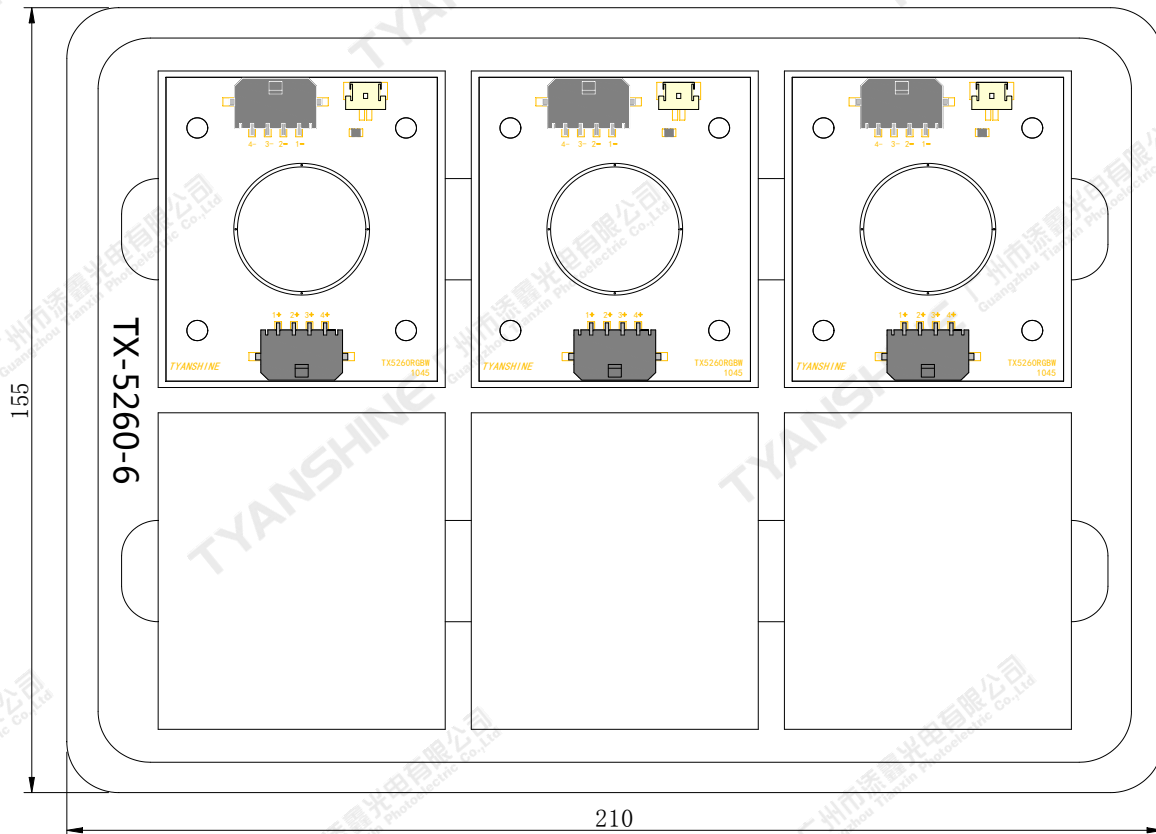
**Notes:**

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  $\pm 5^\circ$ .

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**Dimensions For Cannulation And Packaging**

**Quantity: 6PCS**



**Notes:**

1. All dimensions are in millimeters.
2. Tolerances are  $\pm 2.0$  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, Irreponsible of the Company.

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