

# TX-RGB3A140-003K

## PRODUCT SPECIFICATION

Approved by:

Checked by:

Prepared by:

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**Notes:**

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is



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**Characteristics at  $I_f=700mA$  ,  $V_r=5V$  ( $T_a=25^\circ C$ )**

Parameter	Symbol	Emitting Color	Values			Units
			Min.	Typ.	Max.	
Luminous Flux	v	R	115	130	—	lm
		G	195	210	—	
		B	30	40	—	
Viewing Angle at 50% IV	2 1/2	R	—	140	—	Deg
		G	—	140	—	
		B	—	140	—	
Peak Emission Wavelength	p	R	625	630	635	nm
		G	510	515	520	
		B	445	448	450	
Dominant Wavelength	d	R	620	622	625	nm
		G	520	523	525	
		B	452	455	463	
Spectral Line Half-Width		R	15	20	25	nm
		G	25	30	35	
		B	15	20	25	
Forward Voltage	V <sub>f</sub>	R	2.0	2.3	2.6	V
		G	3.0	3.3	3.6	
		B	3.0	3.3	3.6	
Reverse Current	I <sub>R</sub>	—	—	—	10	μA
Thermal Resistance Junction to Case	R <sub>J-C</sub>	—	—	10	—	K/W
Temperature Coefficient of Forward Voltage	V <sub>F/T</sub>	—	—	-2	—	mV/

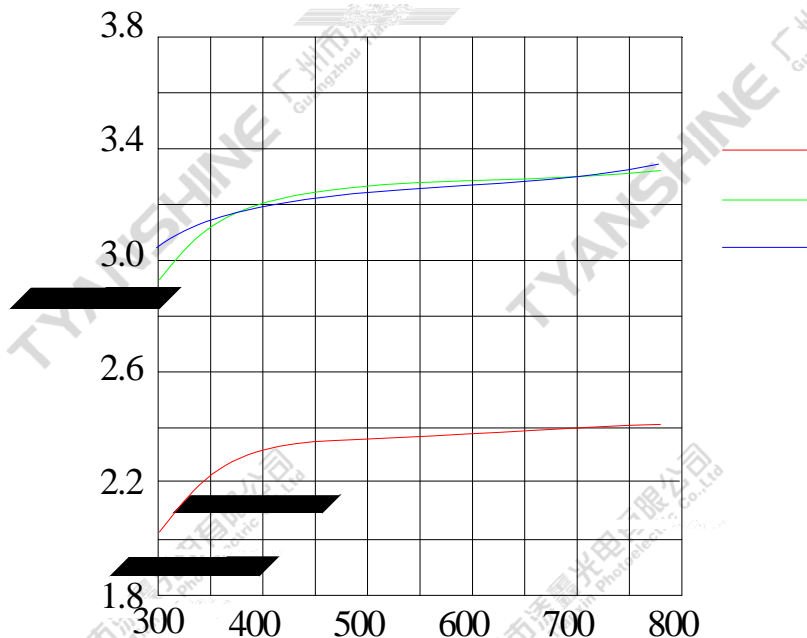
**Notes:**

- Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- 1/2 is the off-axis angle at which the luminous intensity is half the axial luminous intensity
- The dominant wavelength ( d ) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.
- Flux is measured with an accuracy of ±15%.
- Forward voltage is measured with an accuracy of ±0.15V.

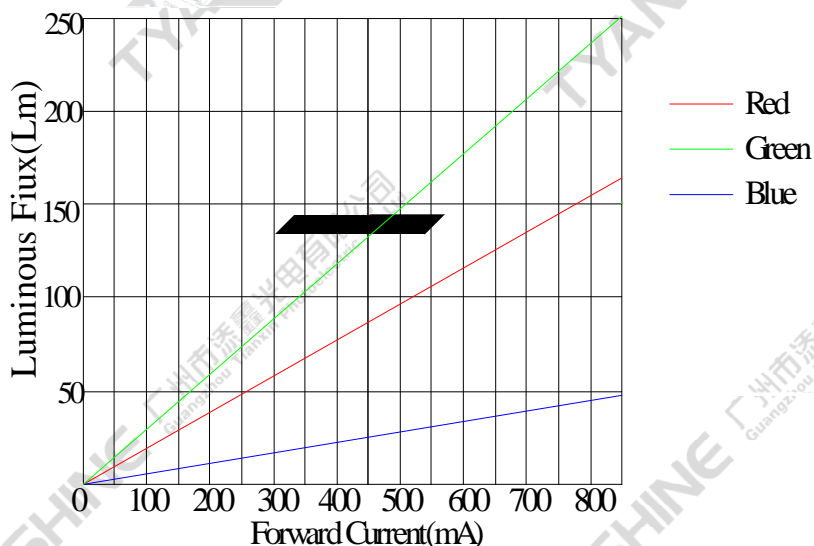
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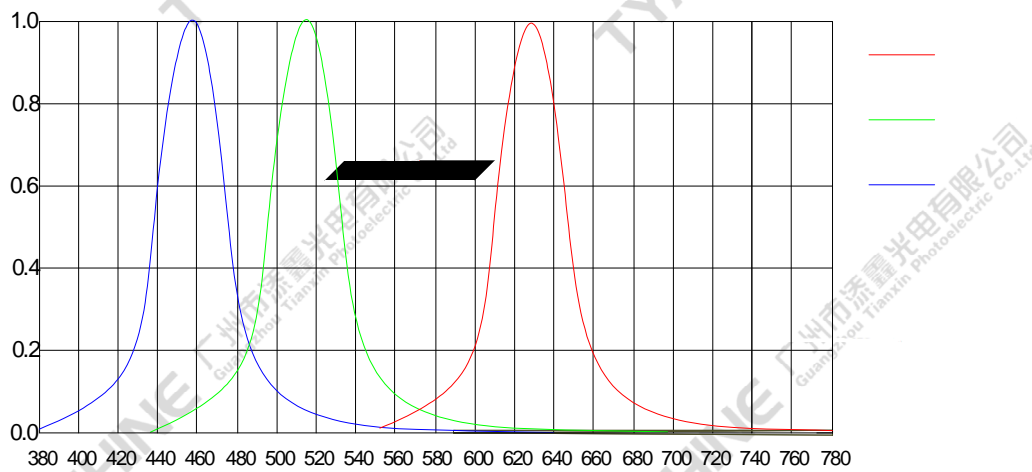
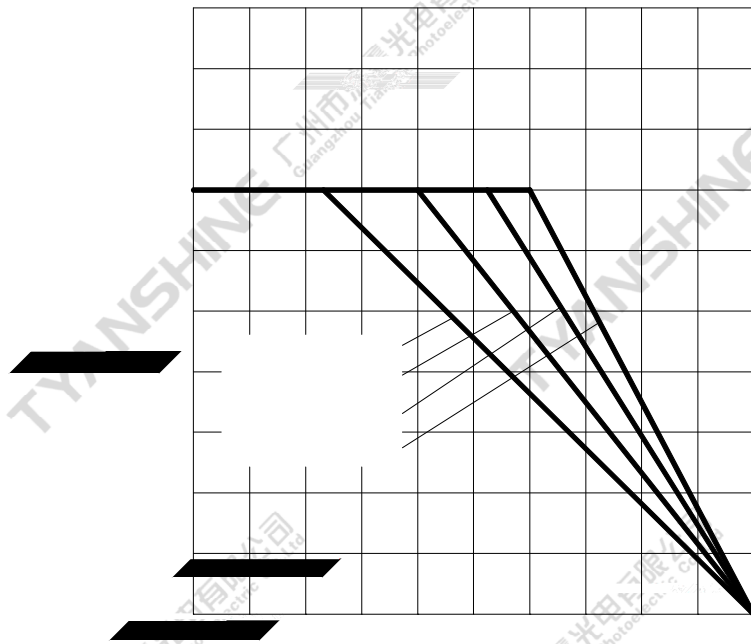
## Typical Electrical / Optical Characteristics Curves

(25 Ambient Temperature Unless Otherwise Noted)

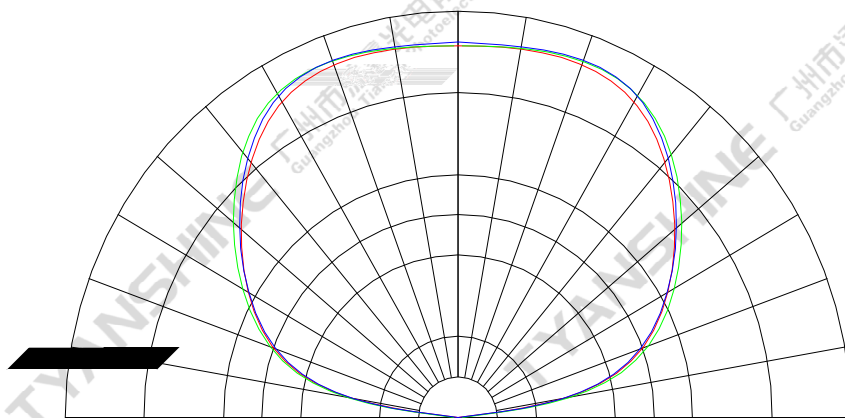


Forward Current VS. Luminous Flux





Beam Patter



Relative intensity (LOP@ MAX=1)

Notes:

- 1.2 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 [redacted]



