

# TX-RGB3A140-003K

## PRODUCT SPECIFICATION

Approved by:

Checked by:

Prepared by:

|                 |                  |                 |            |             |        |
|-----------------|------------------|-----------------|------------|-------------|--------|
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Guangzhou Tianxin Photoelectric Co., Ltd

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**Notes:**

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



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

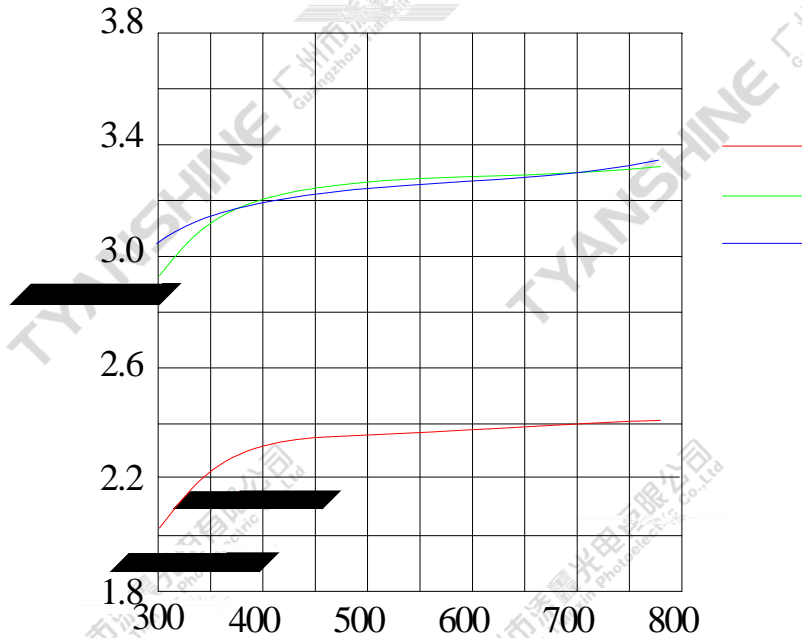
| Parameter                                  | Symbol           | Emitting Color | Values |      |      | Units |
|--|------------------|----------------|--------|------|------|-------|
|  |                  |                | Min.   | Typ. | Max. |       |
| Luminous Flux                              | 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:**

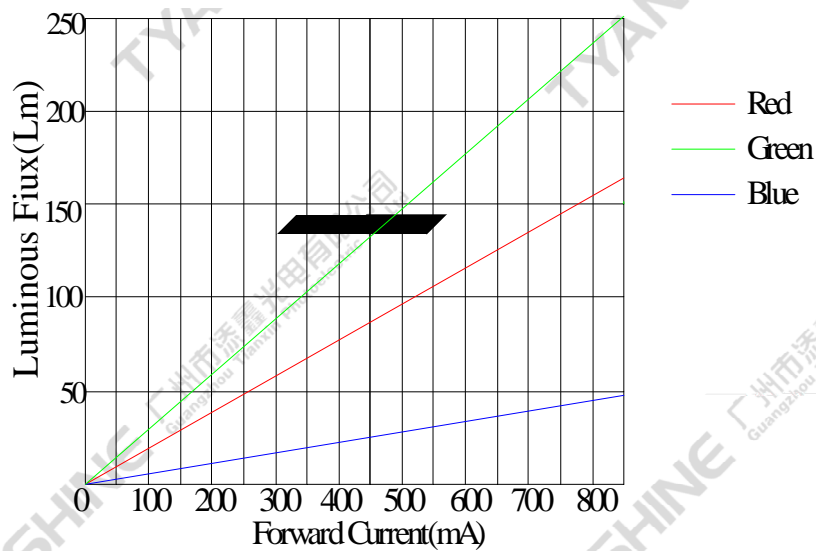
- Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- 1/2 is the off-axis angle at which the luminous intensity is half the axial luminous intensity
- The dominant wavelength ( d ) is derived from the CIE chromaticity diagram and represents 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.

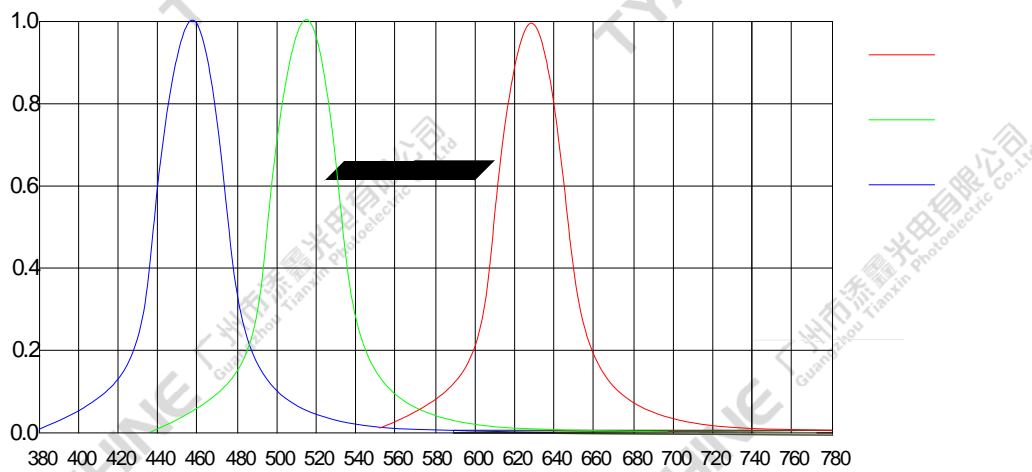
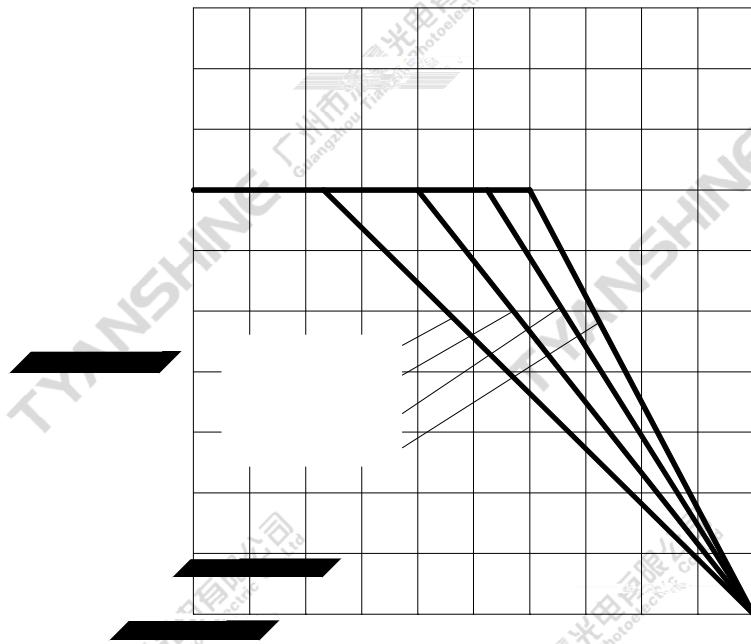
### Typical Electrical / Optical Characteristics Curves

(25 Ambient Temperature Unless Otherwise Noted)

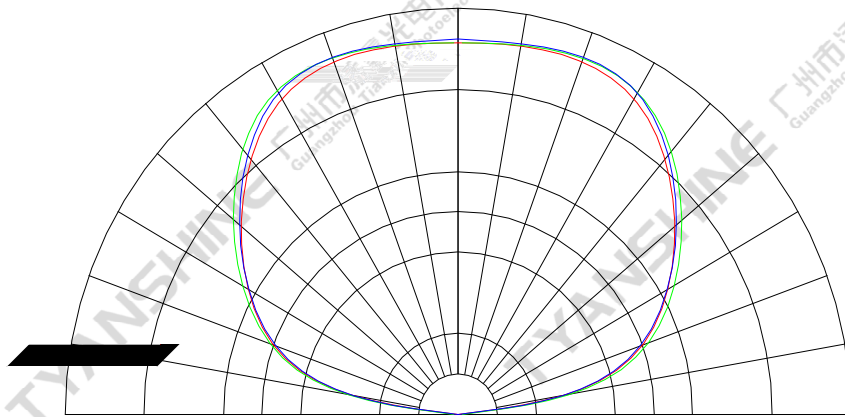


Forward Current VS. Luminous Flux





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]



|          |                  |          |            |      |        |
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