

# TX-5266W600FC120-NUVENG-B01H95

## PRODUCT SPECIFICATION

### Features:

- ◆Excellent transiting heat from LED chip operating under 8A.
- ◆High luminous output.
- ◆No UV.
- ◆Encapsulated materials are environmentally certified and meet environmental requirements.

### Chip Material:

- ◆ThinGaN

### Emitting Color:

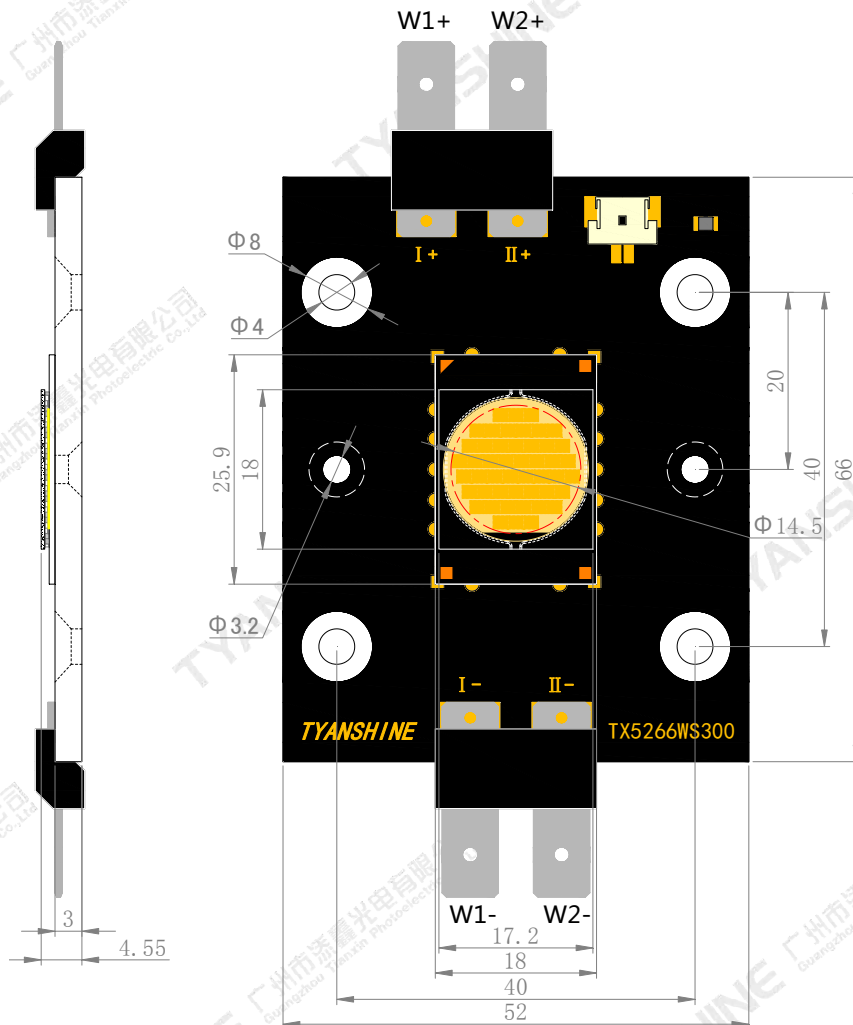
- ◆White

### Applications:

- ◆Auxiliary lighting
- ◆Architectural lighting

|          |                                |          |            |      |        |
|----------|--------------------------------|----------|------------|------|--------|
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## Package Dimensions:



## Notes:

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

**Absolute Maximum Ratings (Tc=27℃)**

| Parameter                               | Symbol | Ratings                            | Unit |
|-----------------------------------------|--------|------------------------------------|------|
| Forward Current                         | IF     | 8000                               | mA   |
| Reverse Voltage                         | VR     | Not designed for reverse operation | V    |
| Power Dissipation                       | PD     | W1                                 | W    |
|                                         |        | W2                                 |      |
| Junction Temperature                    | Tj     | 150                                | ℃    |
| Electrostatic Discharge Threshold (ESD) | ESD    | 2000                               | V    |
| Storage Temperature                     | Tstg   | -20~+70                            | ℃    |
| Operation Temperature                   | Topr   | -30~+100                           |      |

**Notes:**

1.Specifications are subject to change without notice.

2.The data on this specification is for reference only and the actual data is in accordance with the acknowledgment.

3.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

| Parameter                           | Symbol                       |    | Condition | Min.  | Typ.  | Max.  | Units |
|-------------------------------------|------------------------------|----|-----------|-------|-------|-------|-------|
| Luminous Flux                       | $\varphi_v$<br>(If=7.5A)     | W1 | Ta=27℃    | 14000 | 15000 | 16000 | lm    |
|                                     |                              |    | Ta=85℃    | 11340 | 12150 | 12960 |       |
|                                     |                              | W2 | Ta=27℃    | 14000 | 15000 | 16000 |       |
|                                     |                              |    | Ta=85℃    | 11340 | 12150 | 12960 |       |
| Correlated Colour Temperature       | CCT                          |    | Ta=27℃    | 5400  | —     | 6000  | K     |
|                                     |                              |    | Ta=85℃    | 5530  | —     | 6150  |       |
| Forward Voltage                     | $V_f$<br>(If=7.5A)           | W1 | Ta=27℃    | 35    | 37    | 39    | V     |
|                                     |                              |    | Ta=85℃    | 34    | 36    | 38    |       |
|                                     |                              | W2 | Ta=27℃    | 35    | 37    | 39    |       |
|                                     |                              |    | Ta=85℃    | 34    | 36    | 38    |       |
| Viewing Angle at 50 % IV            | $2\theta_{1/2}$              |    | —         | —     | 120   | —     | Deg   |
| Spectral Line Half-Width            | $\triangle\lambda$ (If=7.5A) |    | Ta=27℃    | 20    | 25    | 30    | nm    |
|                                     |                              |    | Ta=85℃    | 25    | 30    | 35    |       |
| Reverse Current                     | $I_R$                        |    | —         | —     | —     | —     | μA    |
| Color Rendering Index               | $R_a$                        |    | —         | 95    | 97    | —     | —     |
| Thermal Resistance Junction to Case | $R_{\theta J-C}$             |    | —         | —     | 0.05  | —     | K/W   |
| Temperature Coefficient of Voltage  | $V\triangle F/T$ (If=7.5A)   |    | —         | —     | -16.7 | —     | mV/℃  |
| Thermistor(NTC)                     | $R_{t25}$                    |    | —         | —     | 10    | —     | KΩ    |

## Notes:

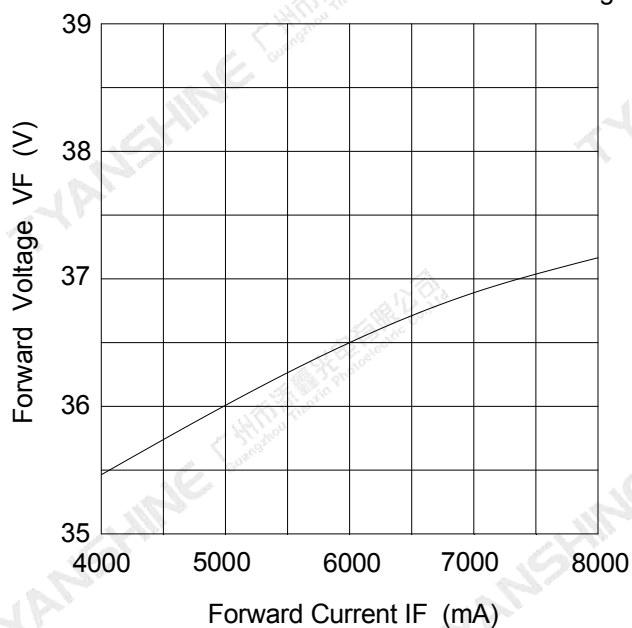
- 1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. $\theta_{1/2}$  is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3.Luminous flux measurement tolerance:±15%.
- 4.Forward voltage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

|          |                                |          |            |      |        |
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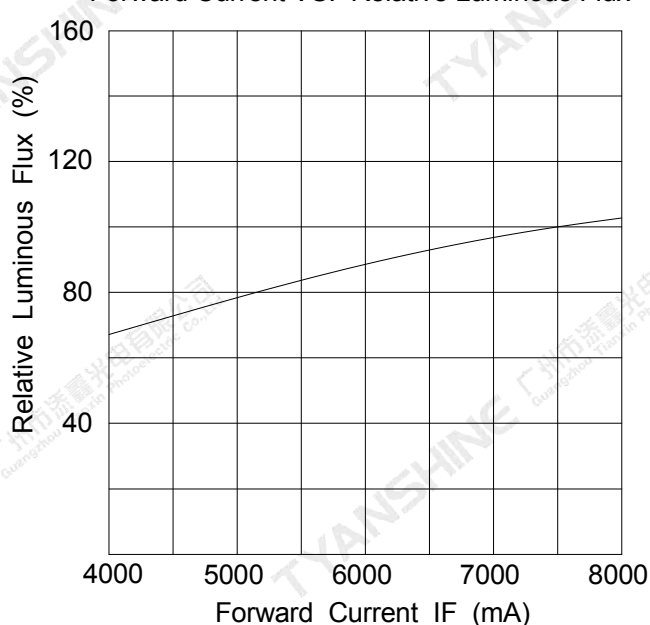
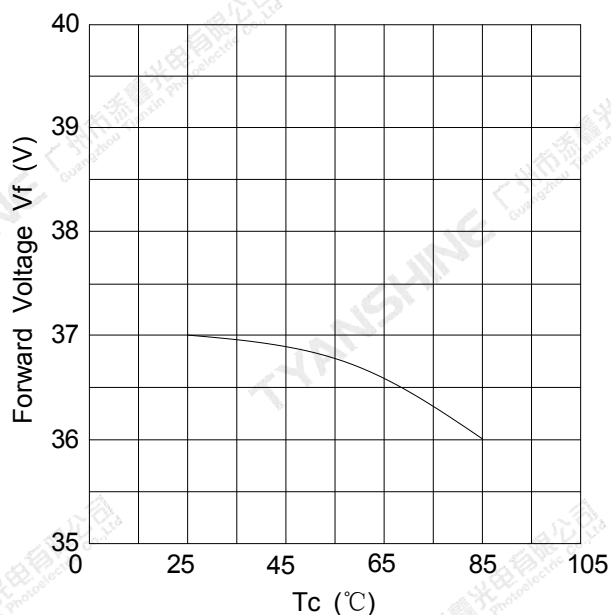
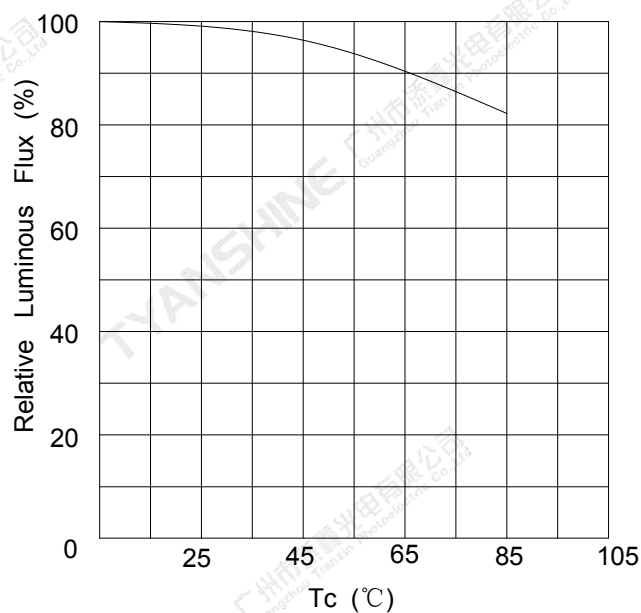
## Typical Electrical/Optical Characteristics Curves

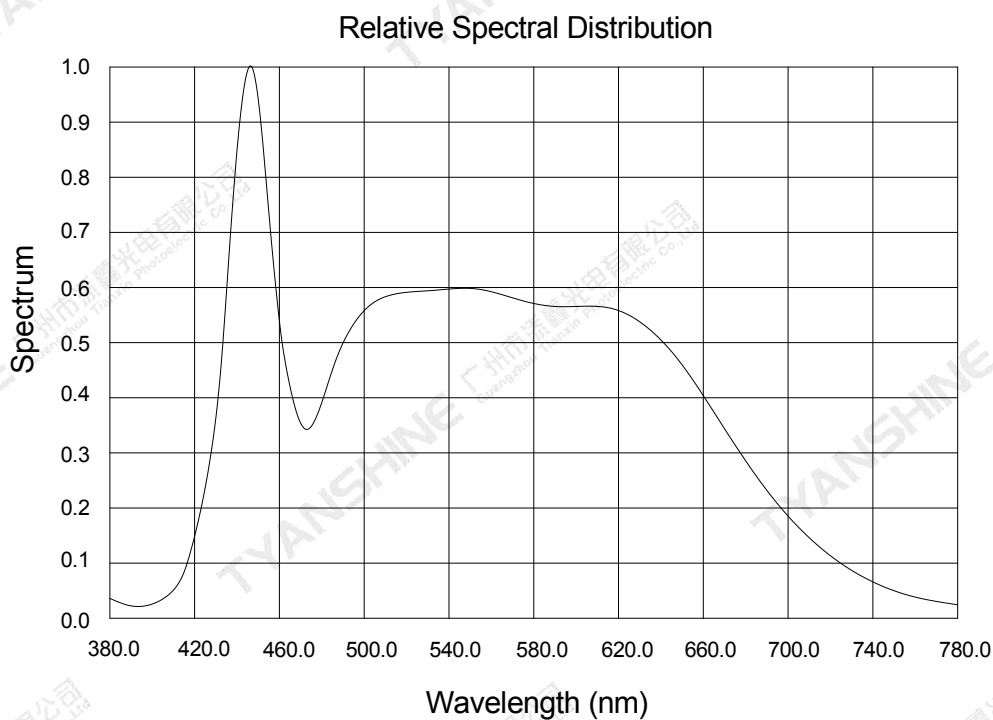
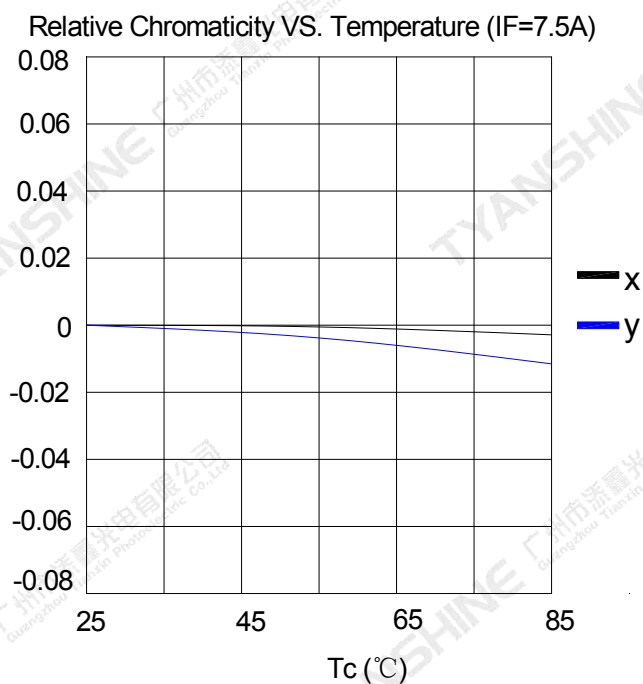
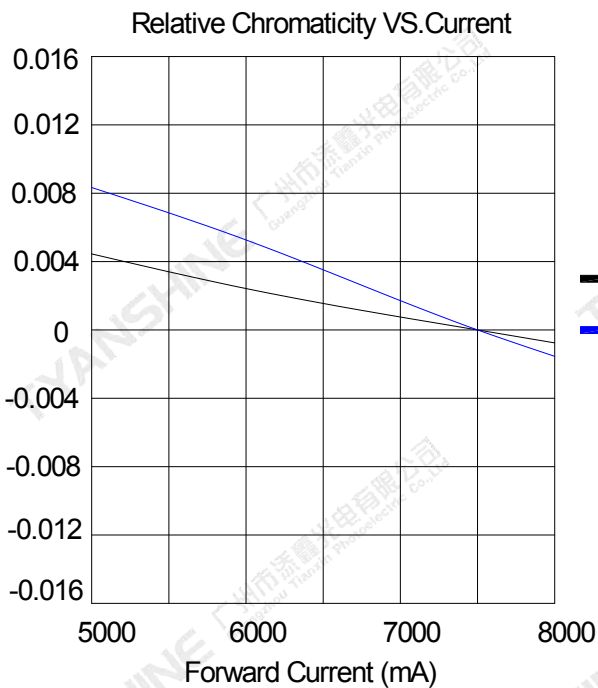
(25°C Ambient Temperature Unless Otherwise Noted)

Forward Current VS. Relative Forward Voltage



Forward Current VS. Relative Luminous Flux

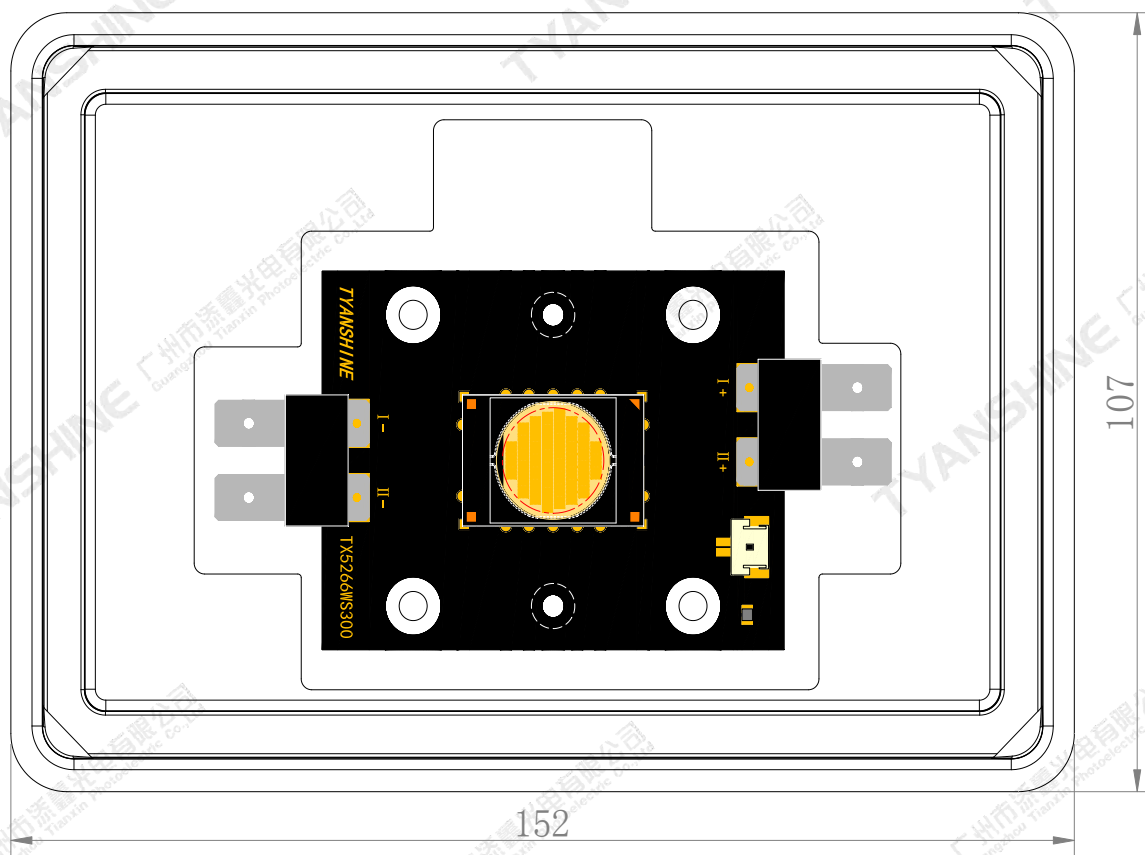
Temperature VS. Relative Luminous FLux ( $I_F=7.5A$ )Temperature VS. Forward Voltage ( $I_F=7.5A$ )

**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:1 PCS



## 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, Irresponsible of the Company.