

TX-2828W200D180CUY-C01H95

PRODUCT SPECIFICATION (R&D version)

Features:

- ◆ Excellent transiting heat from LED chip operating under 6.0A.
- ◆ High luminous output.
- ◆ Encapsulated materials are environmentally certified and meet environmental requirements.

Chip Material:

- ◆ GaN

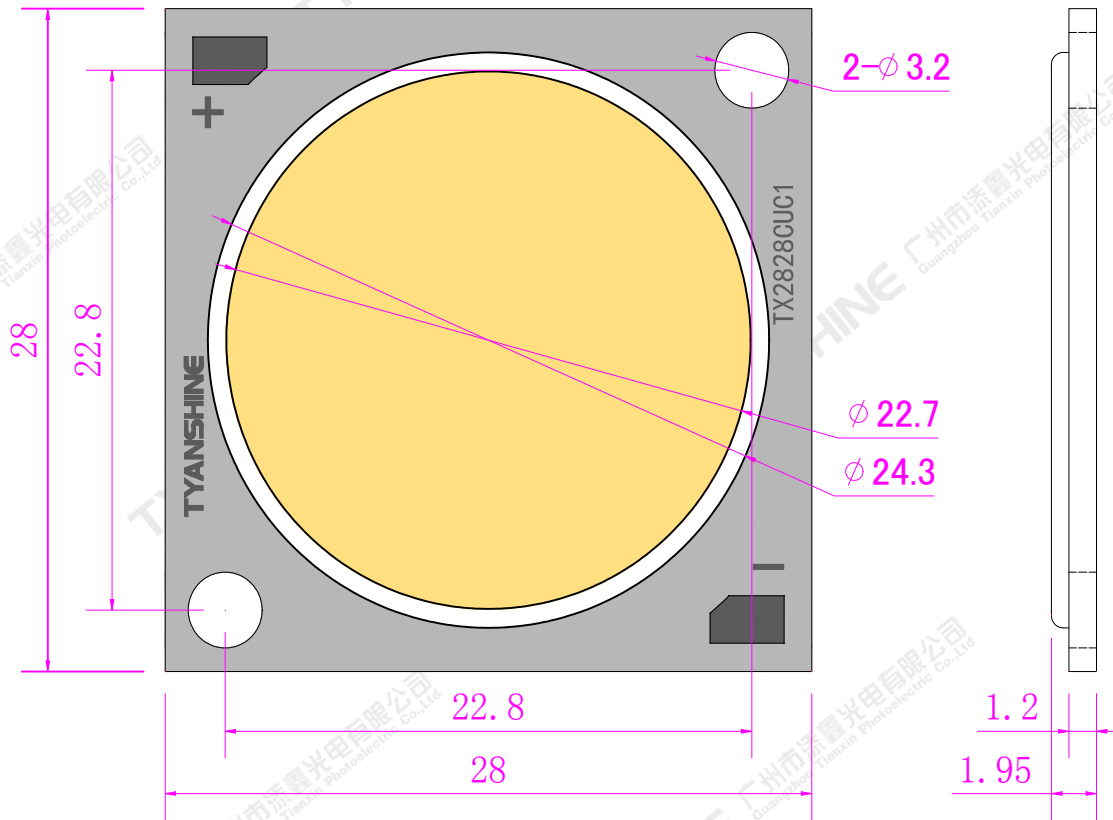
Emitting Color:

- ◆ Warm white

Applications:

- ◆ Stage lighting
- ◆ Architectural lighting
- ◆ Projection lighting
- ◆ Medical lighting

Package Dimensions:



Notes:

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

| | | | | | |
|----------|---------------------------|----------|---------------|------|--------|
| Part No. | TX-2828W200D180CUY-C01H95 | Spec No. | (R&D version) | Page | 2 of 8 |
|----------|---------------------------|----------|---------------|------|--------|

Absolute Maximum Ratings

| Parameter | Symbol | Max Ratings | Unit |
|---|------------------|------------------------------------|------|
| Forward Current | IF | 6.0 | A |
| Reverse Voltage | V _R | Not designed for reverse operation | V |
| Power Dissipation | P _D | 234 | W |
| Junction Temperature | T _j | 150 | °C |
| Electrostatic Discharge Threshold (ESD) | ESD | 2000 | V |
| Storage Temperature | T _{stg} | -40~70 | °C |
| Operation Temperature | T _{opr} | -30~100 | |

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

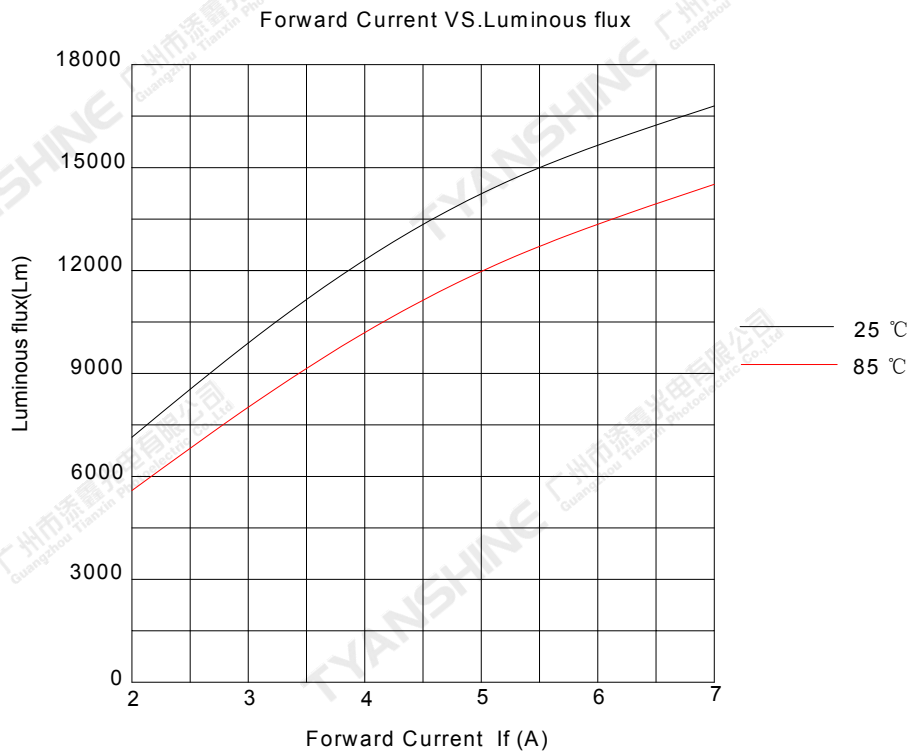
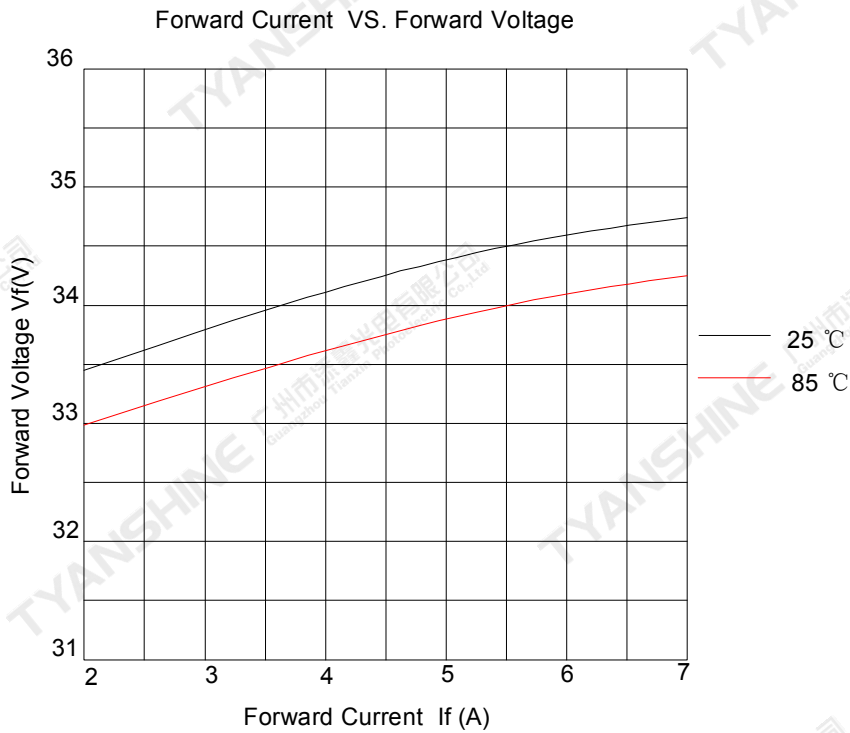
| Parameter | Symbol | Condition | Min. | Typ. | Max. | Units |
|-------------------------------------|------------------|----------------------|-------|-------|------|------------|
| Luminous Flux | ϕ_v | If=5.5A (Tc=25°C) | 13500 | 15000 | — | lm |
| | | If=5.5A (Tc=85°C) | 11500 | 12600 | — | |
| Correlated Colour Temperature | CCT | If=5.5A (Tc=25°C) | 3000 | 3125 | 3250 | K |
| | | If=5.5A (Tc=85°C) | 2980 | 3155 | 3290 | |
| Forward Voltage | Vf | If=5.5A (Tc=25°C) | 33 | 34.5 | 36 | V |
| | | If=5.5A (Tc=85°C) | 32.5 | 34 | 35.5 | |
| Reverse Current | IR | — | — | — | — | μ A |
| Viewing Angle at 50% IV | $2\theta_{1/2}$ | — | — | 115 | — | Deg |
| Thermal Resistance Junction to Case | R θ_{J-C} | — | — | 0.08 | — | K/W |
| Temperature Coefficient of Voltage | V Δ F/T | If=5.5A | — | -12.4 | — | mV/°C |
| Color Rendering Index | Ra | If=5.5A (Tc=85°C) | 95 | 97 | — | — |
| Thermistor(NTC) | Rt25 | — | — | 10 | — | K Ω |

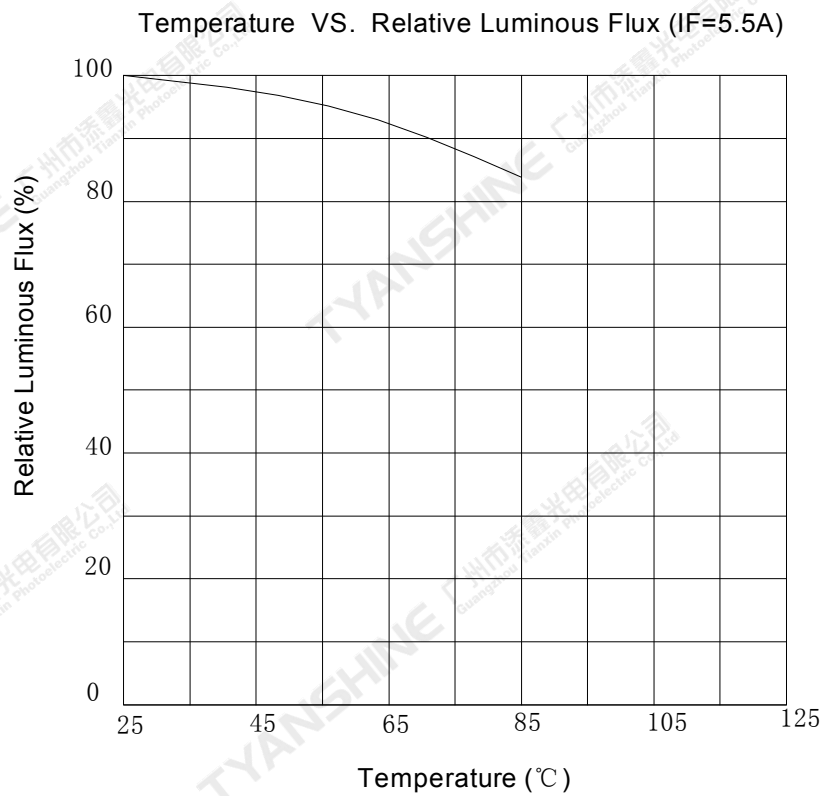
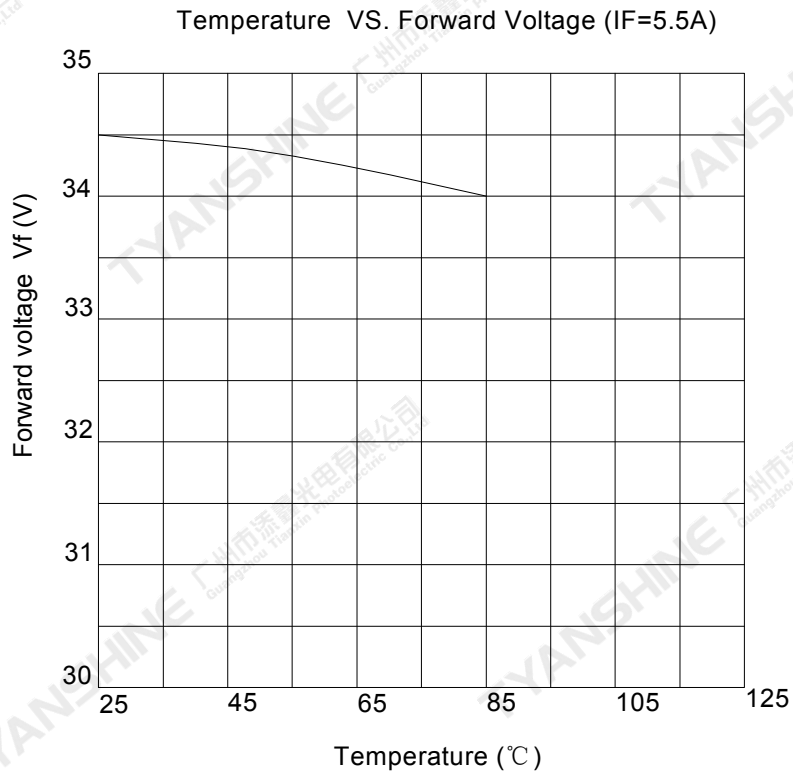
Notes:

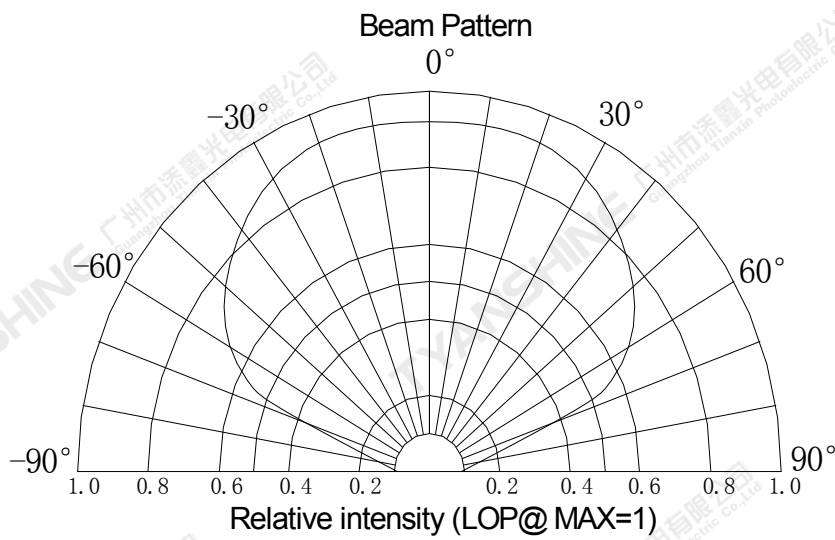
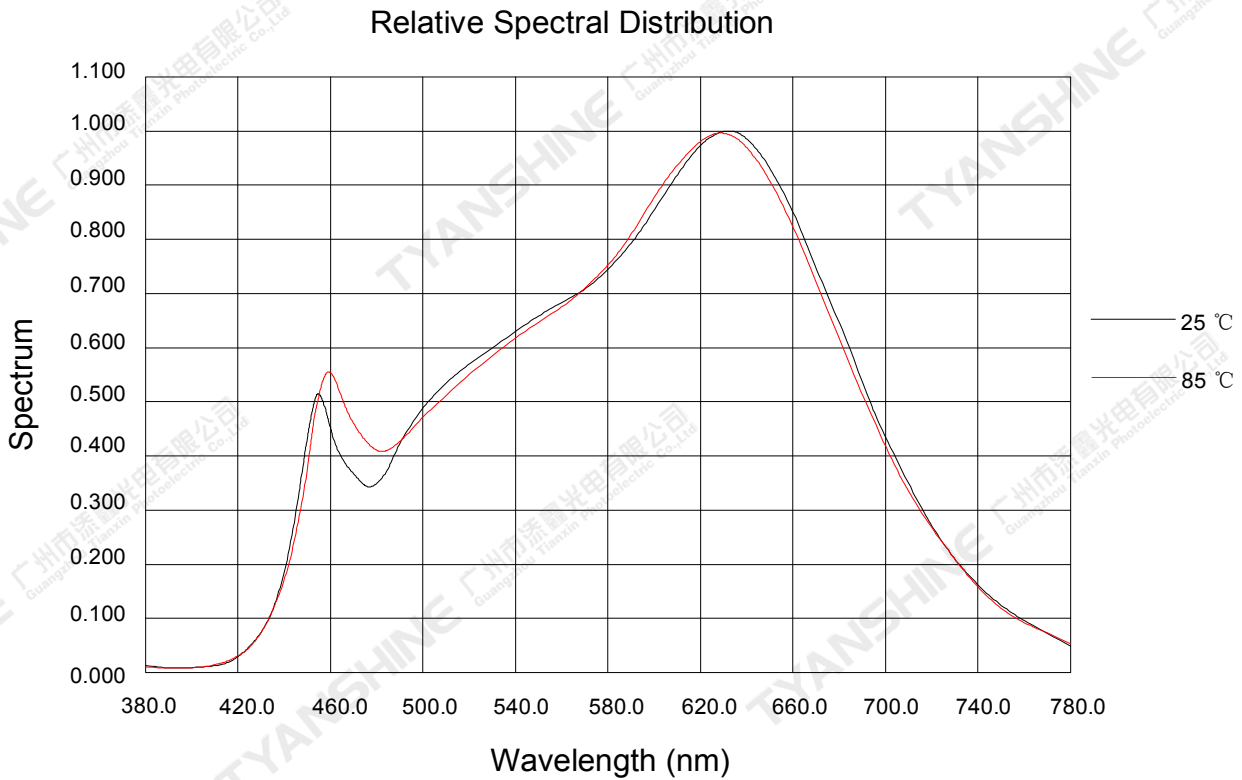
- 1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3.The dominant wavelength (λ_d) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.
- 4.Luminous flux measurement tolerance: $\pm 15\%$.
- 5.Forward voltage measurement tolerance: $\pm 0.15V$.

Typical Electrical/Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)







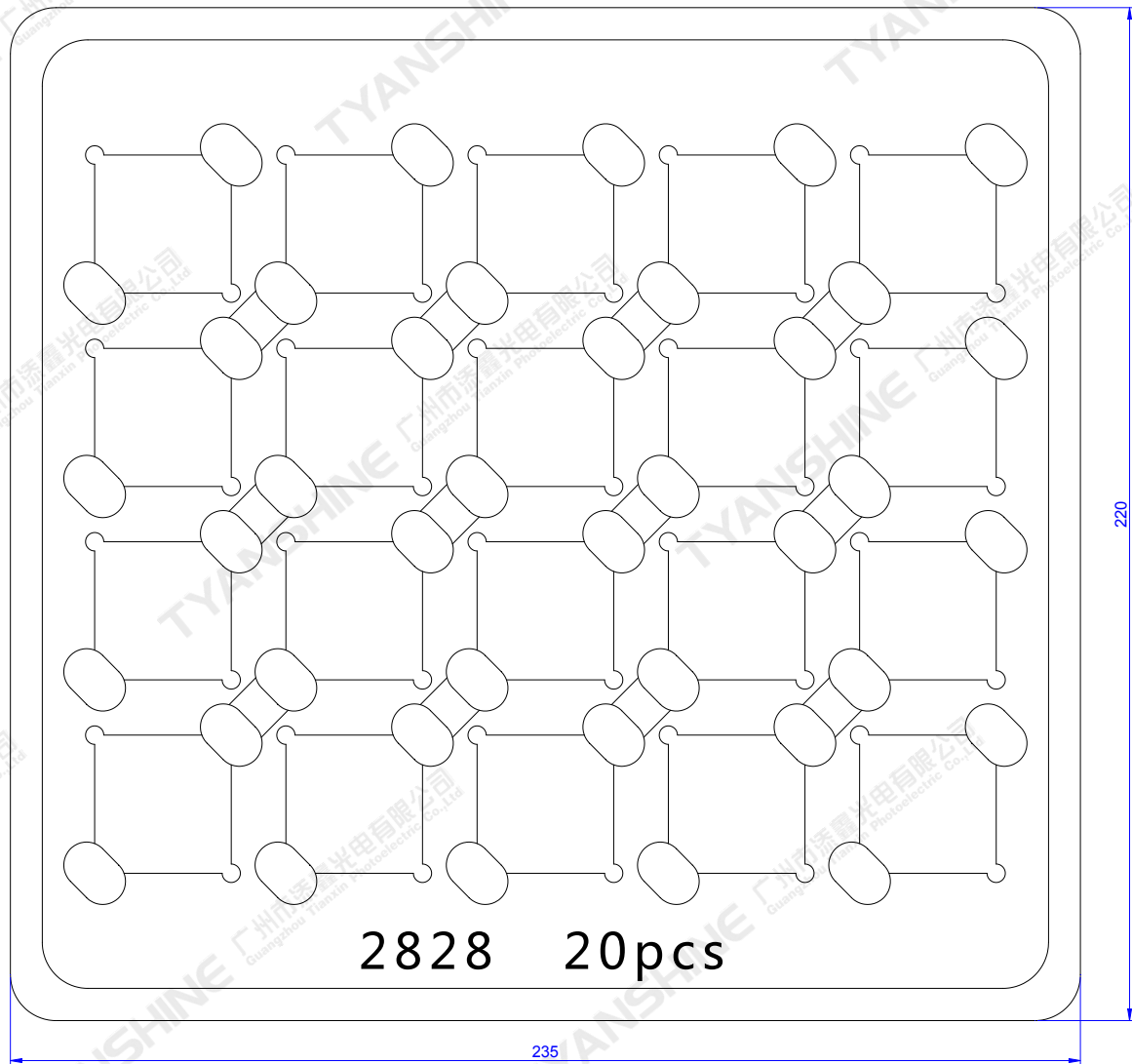
Notes:

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 $\pm 5^\circ$.

| | | | | | |
|----------|---------------------------|----------|---------------|------|--------|
| Part No. | TX-2828W200D180CUY-C01H95 | Spec No. | (R&D version) | Page | 7 of 8 |
|----------|---------------------------|----------|---------------|------|--------|

Dimensions For Cannulation And Packaging

Quantity: 20 PCS



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.

| | | | | | |
|----------|---------------------------|----------|---------------|------|--------|
| Part No. | TX-2828W200D180CUY-C01H95 | Spec No. | (R&D version) | Page | 8 of 8 |
|----------|---------------------------|----------|---------------|------|--------|