

# TX-3838W500C30F17-10H95

## PRODUCT SPECIFICATION (R&D version)

**Features:**

- ◆ Excellent transiting heat from LED chip operating under 4.9A\*2(I+II).
- ◆ Provide uniform cross distribution of positive white and warm white dual color scheme, mixed pure.
- ◆ High luminous output.
- ◆ No UV.
- ◆ Encapsulated materials are environmentally certified and meet environmental requirements.

**Chip Material:**

- ◆ GaInN

**Emitting Color:**

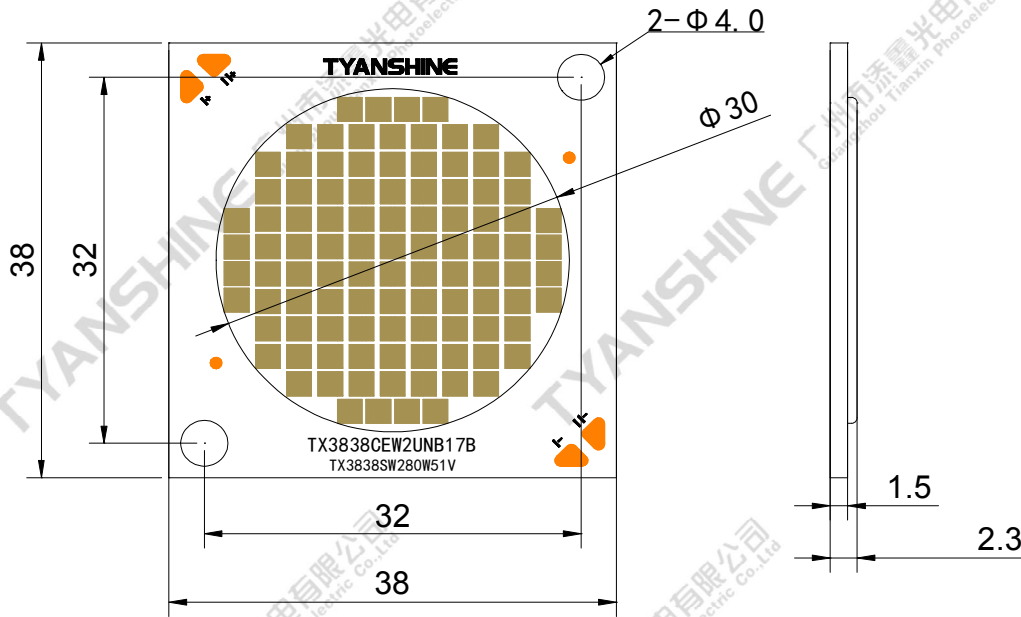
- ◆ Warm White

**Applications:**

- ◆ Commercial lighting
- ◆ General Lighting

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**Package Dimensions:**



I: White (W) ; II: White (W)

**Notes:**

- 1.All dimensions are in millimeters .
- 2.Tolerances unless otherwise mentioned are  $\pm 0.25\text{mm}$  .

**Code Formats:**

**TX-3838W500C30F17-10H95**

<b>TX</b>	<b>—</b>	<b>3838</b>	<b>W</b>	<b>500</b>	<b>C</b>	<b>30</b>	<b>F</b>	<b>17</b>	<b>—</b>	<b>10</b>	<b>H95</b>
TYANSHINE	—	series	performance	watt typ	texture	LES	chip code	die count in series	—	BOM	Ra

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**Absolute Maximum Ratings**

Parameter	Symbol	Ratings	Unit
Forward Current	IF (I+II)	4.9A*2	A
Reverse Voltage	VR	Not designed for reverse operation	V
Power Dissipation	PD	750	W
Junction Temperature	Tj	150	°C
Case Temperature (C)	Tc	100	°C
Electrostatic Discharge Threshold (ESD)	ESD	2000	V
Storage Temperature	Tstg	-40~+100	°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.

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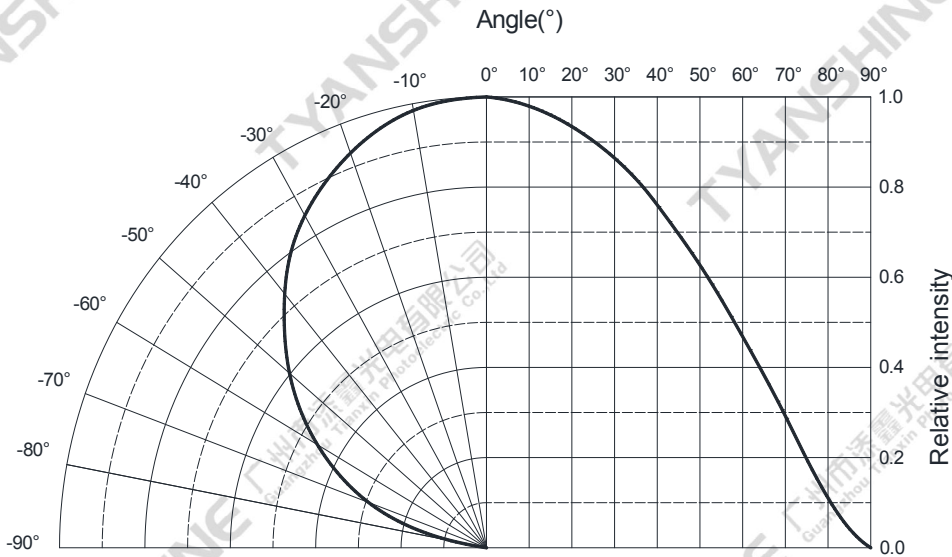
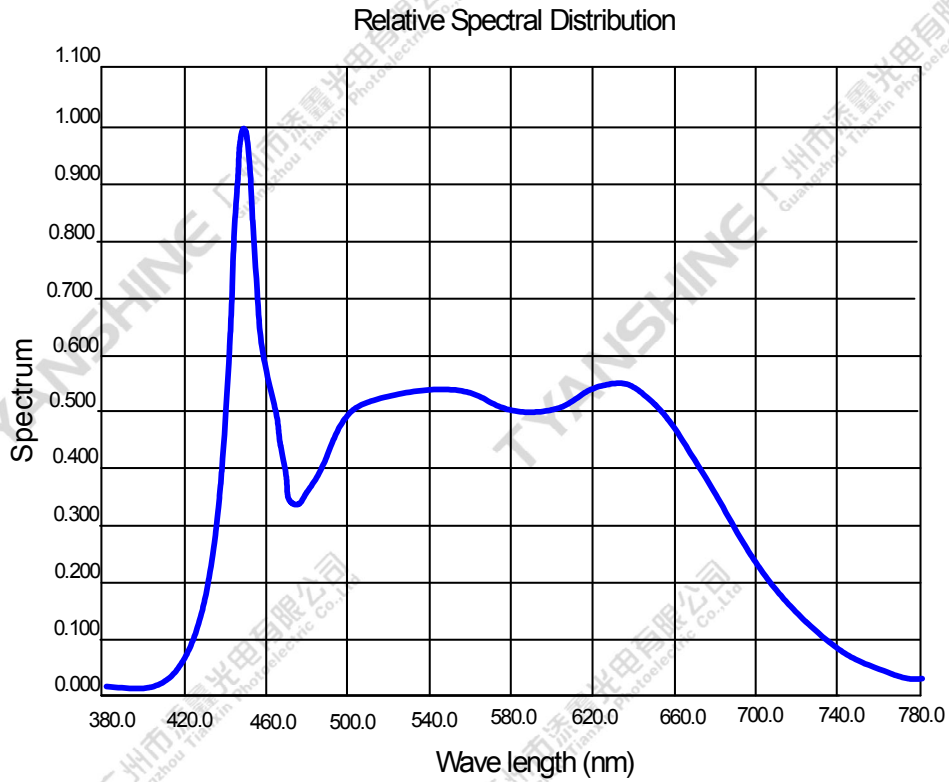
**Electrical Optical Characteristics (Tc=25°C)**

Parameter	Symbol	Condition	Emitting color	Min.	Typ.	Max.	Units
Luminous Flux	$\varphi_v$	If=1.5A*2 (I+II)	S	16000	18500	—	lm
Forward Voltage	$V_f$		S	44	47	50	V
Correlated Colour Temperature	CCT		S	5000	—	5400	K
Luminous Flux	$\varphi_v$	If=4.9A*2 (I+II)	S	45000	51000	—	lm
Forward Voltage	$V_f$		S	48	51	54	V
			S	5400	—	5800	K
Viewing Angle at 50% IV	$2\theta_{1/2}$		S	—	115	—	Deg
Color Rendering Index	Ra		S	95	—	—	—
	R9		S	90	—	—	—
TLCI	—		S	95	—	—	—
TM-30	RF		S	90	—	—	—
	RG	S	98	—	103	—	

**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:±10%.
- 4.Forward voltage measurement tolerance:±3%.
- 5.Ra measurement tolerance: ±2.
- 6.chromaticity (x, y) measurements tolerance: ±0.005.

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**Notes:**

1. 2θ 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 ± 5°.

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