

TX-3850W300C28F14-03H95

PRODUCT SPECIFICATION

Features:

- ◆Excellent transiting heat from LED chip operating under 7A.
- ◆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:

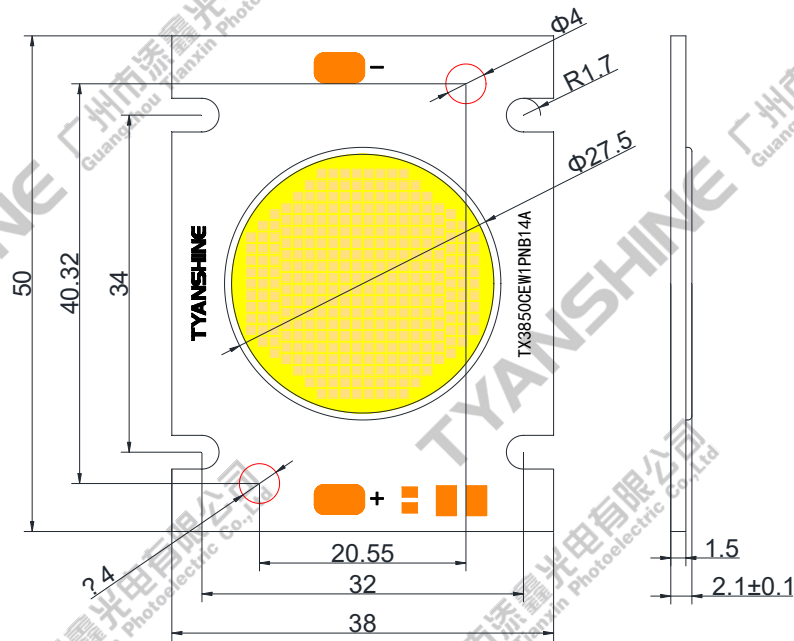
- ◆White
- ◆Warm white

Applications:

- ◆Commercial lighting
- ◆General Lighting

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Package Dimensions:



Notes:

- 1.All dimensions are in millimeters .
- 2.Tolerances unless otherwise mentioned are ±0.25mm .

Code Formats:

TX-3850W300C28F14-03H95

TX	—	3850	W	300	C	28	F	14	—	03	H95
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		7	A
Reverse Voltage	VR		Not designed for reverse operation	V
Power Dissipation	PD	W	300	W
Junction Temperature	Tj	W	135	℃
Electrostatic Discharge Threshold (ESD)	ESD		2000	V
Case Temperature (C)	Tc		85	℃
Storage Temperature	Tstg		-30~+100	℃
Operation Temperature	Topr		-30~+80	

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	ϕ_v	If=7A	W	—	25000	—	lm
Forward Voltage	V_f		W	39	41	43	V
Correlated Colour Temperature	CCT		W	5400	—	5800	K
Viewing Angle at 50% IV	$2\theta_{1/2}$		W	—	115	—	Deg
Reverse Current	I_R	—	—	—	—	—	μA
Thermal Resistance Junction to Case	$R_{\theta_{J-C}}$	If=7A	W	—	0.1	—	K/W
Temperature Coefficient of Voltage	$V \Delta F/T$		W	—	18.5	—	mV/°C
Color Rendering Index	Ra		W	—	95	—	—

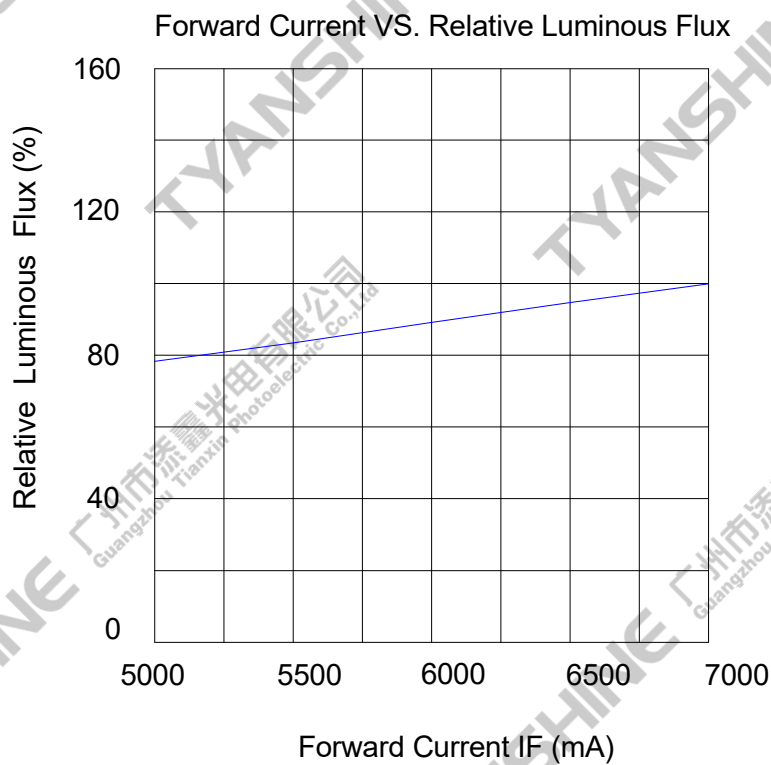
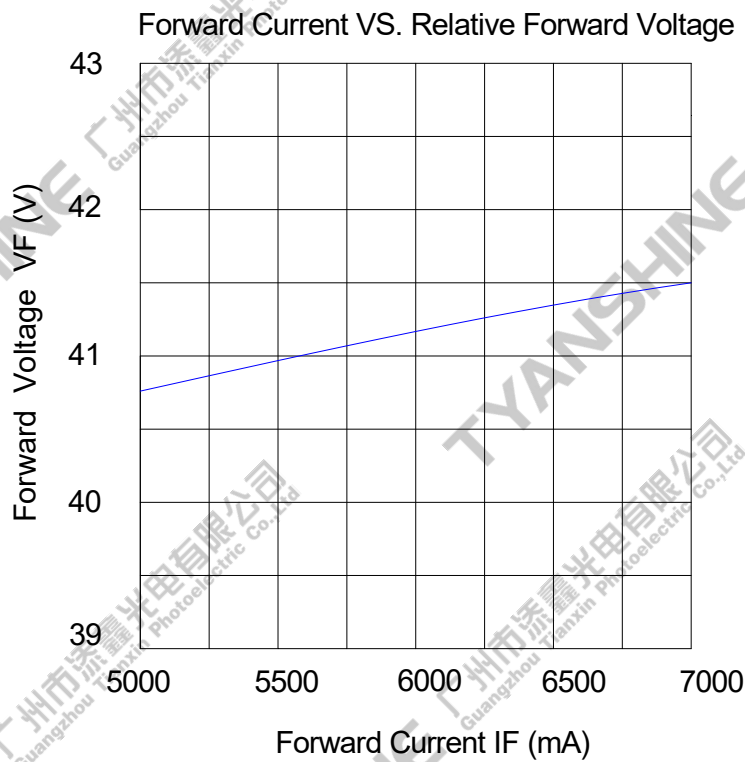
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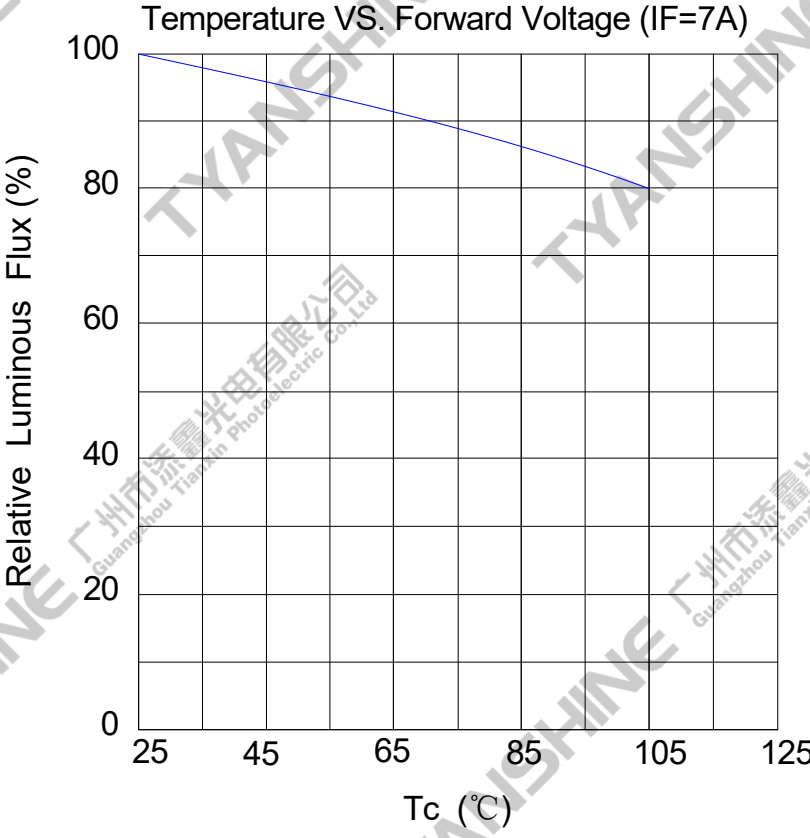
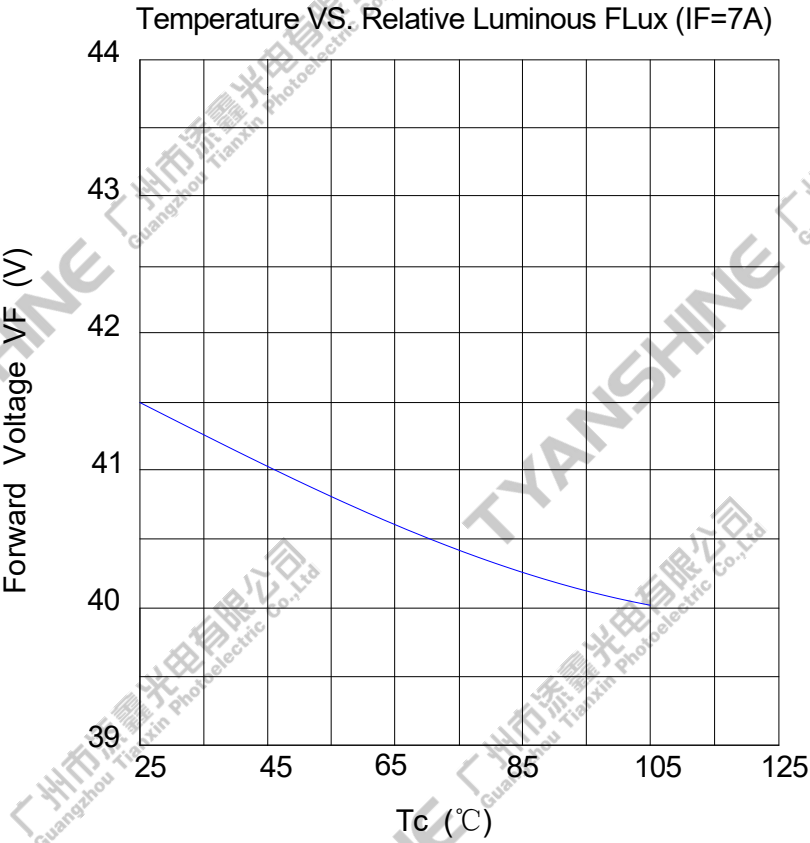
- 1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3.Luminous flux measurement tolerance: $\pm 15\%$.
- 4.Forward voltage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

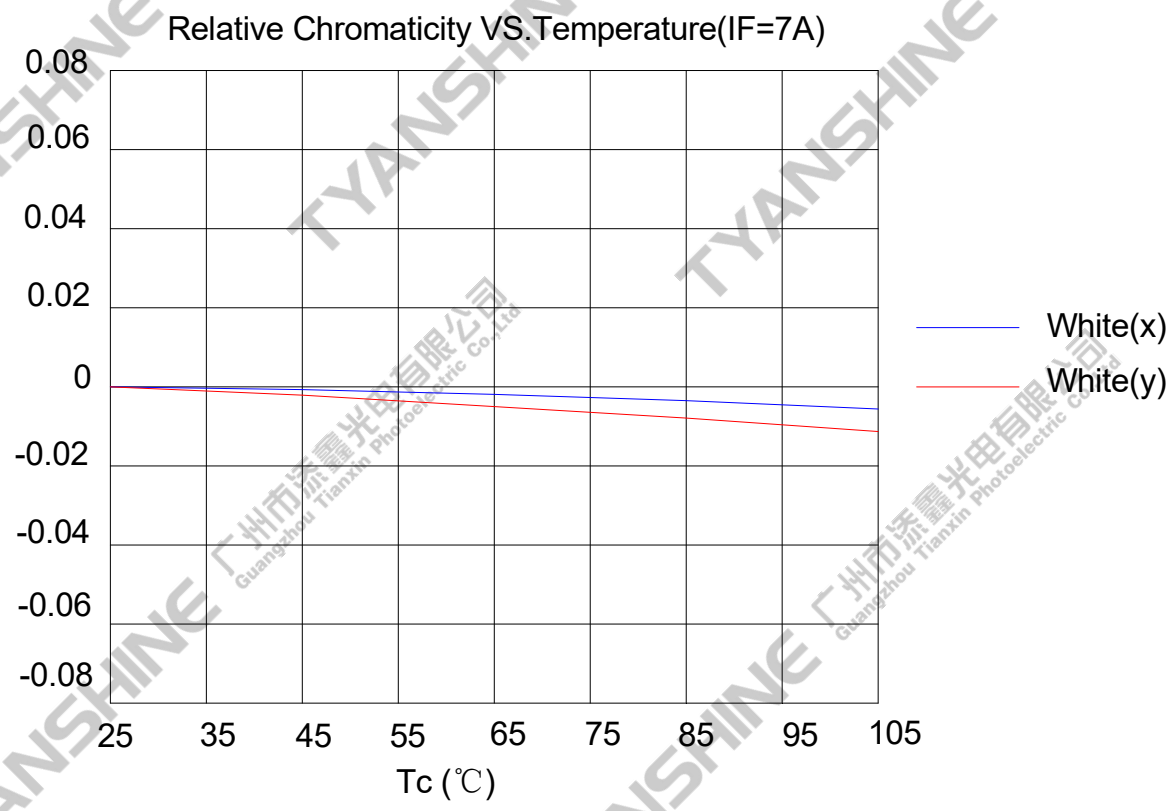
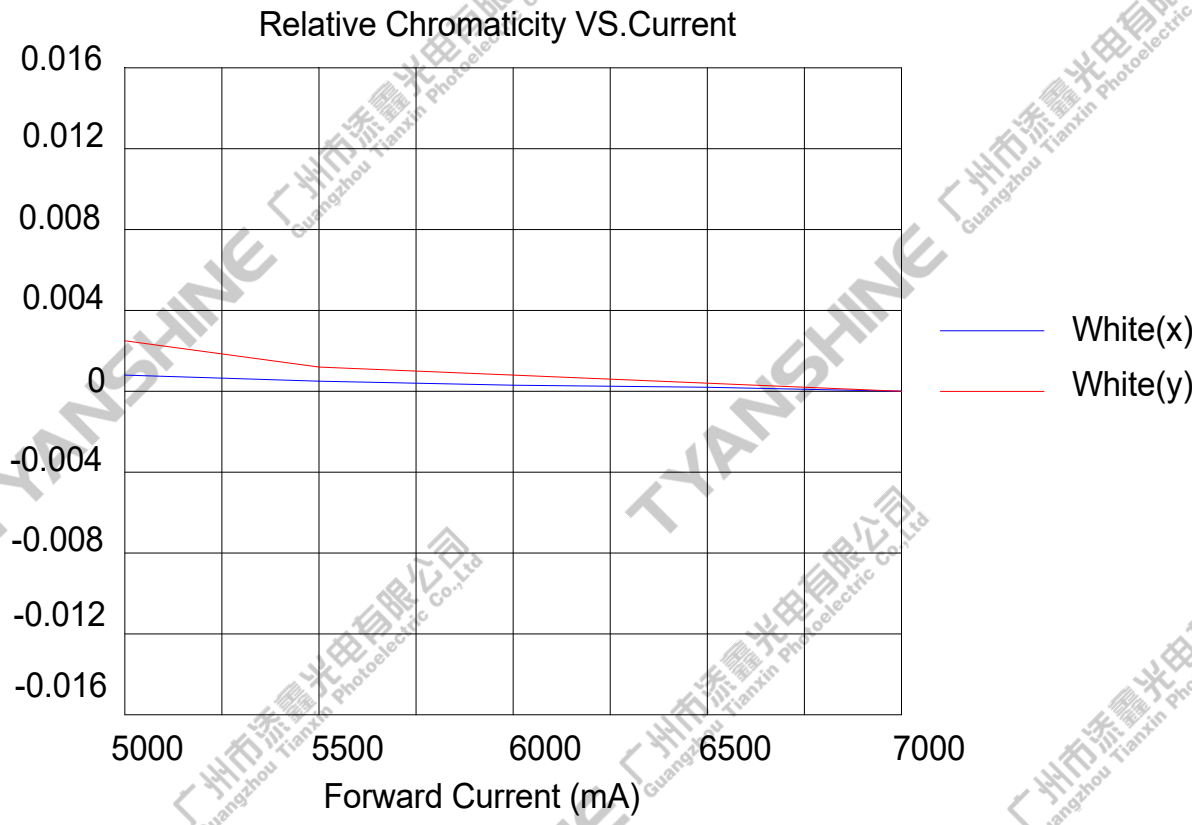
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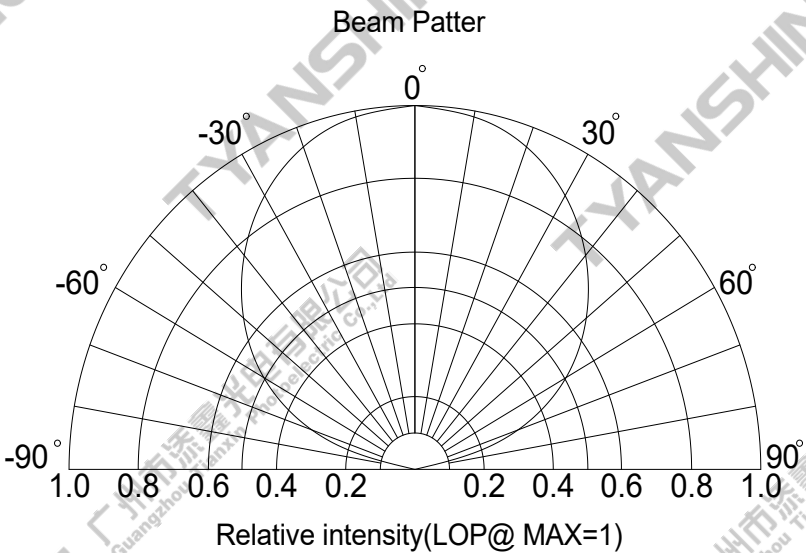
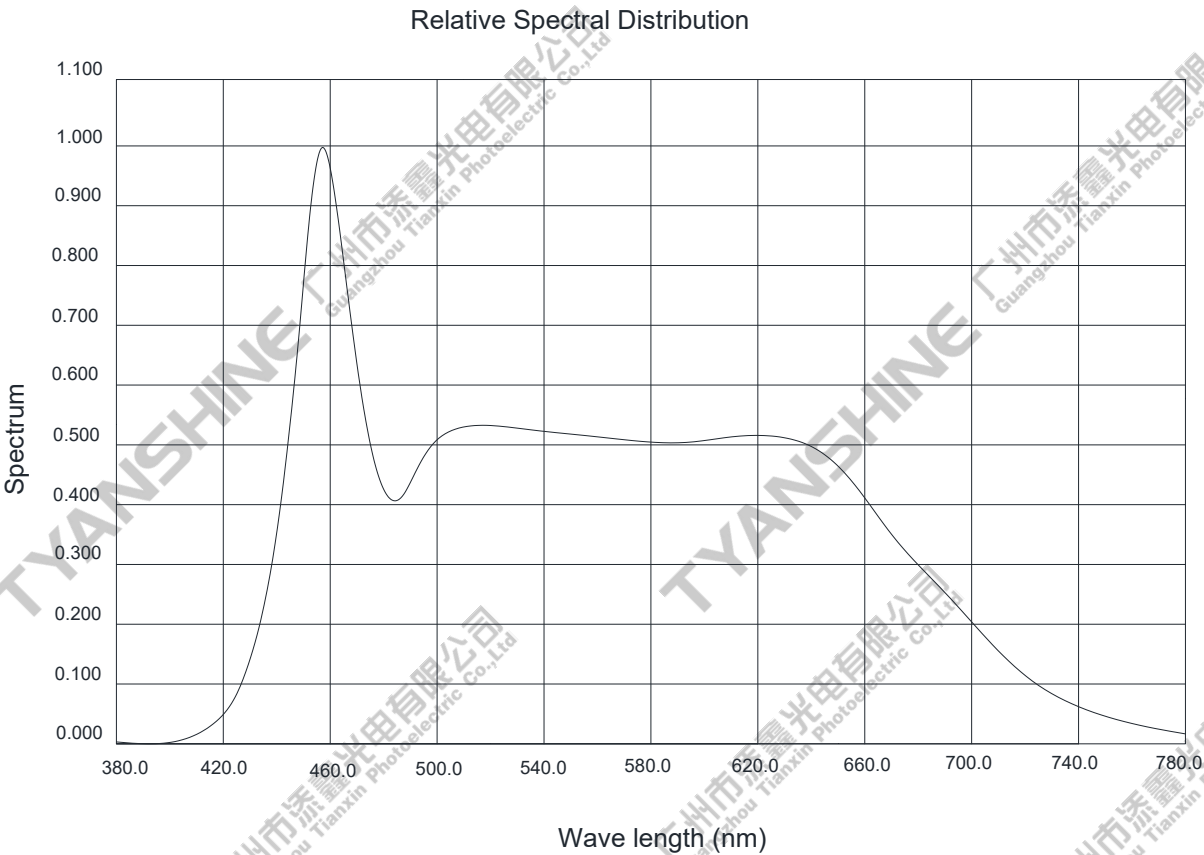
Typical Electrical/Optical Characteristics Curves

(25℃ Ambient Temperature Unless Otherwise Noted)







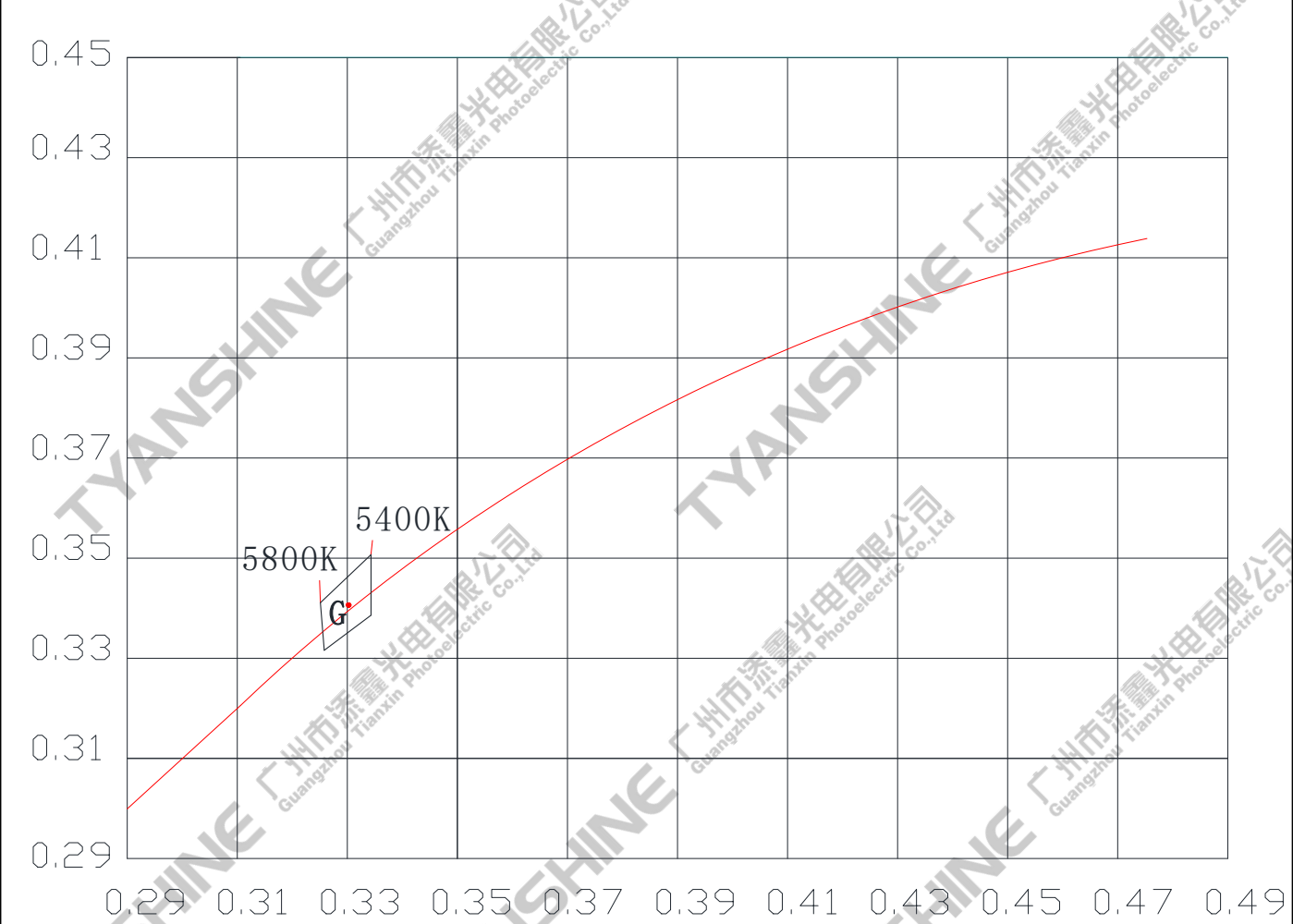


Notes:

- 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 $\pm 5^\circ$.

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Chromaticity Coordinates (Condition: IF=7A, Tc=25℃)



Notes:
1.chromaticity (x, y) measurements tolerance:±0.005.

Reliability Test

Test Item		Test Condition			
Continuous Operation Test		IF=7A Ta=25℃ ×1000hrs			
Low Temperature Storage Test		-30℃ × 1000 hours			
High Temperature Storage Test		100 ℃ × 1000 hours			
Moisture-proof Test		85 ℃, 85 %RH for 500 hours			
Thermal Shock Test		-30 ℃ × 30 minutes – 100 ℃ × 30 minutes, 100 cycle			
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