

TX-28200SW25A-3055V39-02H90

PRODUCT SPECIFICATION (R&D version)

Features:

- ◆ Excellent transiting heat from LED chip operating under 2800mA.
- ◆ 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:

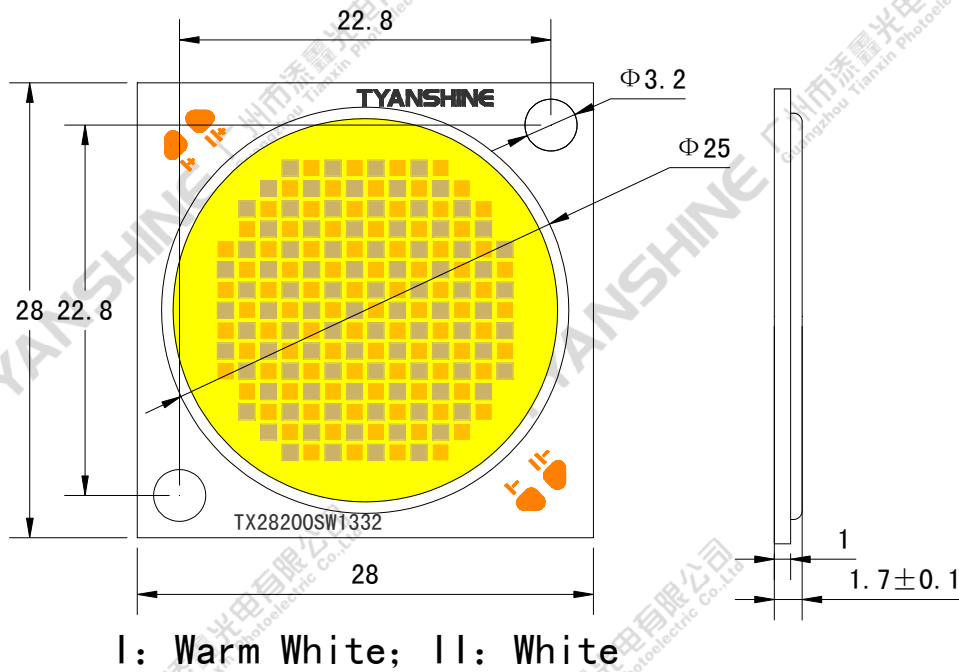
- ◆ White
- ◆ Warm white

Applications:

- ◆ Commercial lighting
- ◆ General Lighting

Part No.	TX-28200SW25A-3055V39-02H90	Spec No.	WKF-BF0359	Page	1 of 10
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Package Dimensions:



Notes:

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

Code Formats:

TX-28200SW25A-3055V39-02H90

TX	—	28	200	SW	25	A	—	3055	V39	—	02	H90
TYANSHINE	—	series	watt typ	performance	LES	texture	—	CCT	VOLTs	—	BOM	Ra

Part No.	TX-28200SW25A-3055V39-02H90	Spec No.	WKF-BF0359	Page	2 of 10
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Absolute Maximum Ratings

Parameter	Symbol	Ratings	Unit
Forward Current	IF	2800	mA
Reverse Voltage	VR	Not designed for reverse operation	V
Power Dissipation	PD	W	112
		S	112
Junction Temperature	Tj	W	135
		S	135
Case Temperature (C)	Tc	85	°C
Electrostatic Discharge Threshold (ESD)	ESD	2000	V
Storage Temperature	Tstg	-30~+100	°C
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.

Part No.	TX-28200SW25A-3055V39-02H90	Spec No.	WKF-BF0359	Page	3 of 10
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Electrical Optical Characteristics (Tc=25°C)

Parameter	Symbol	Condition	Emitting color	Min.	Typ.	Max.	Units
Luminous Flux	ϕ_v	If=2600mA	S	—	7500	—	lm
			W	—	9350	—	
Forward Voltage	V_f		S	36	38	40	V
			W	36	38	40	
Correlated Colour Temperature	CCT		S	—	3000	—	K
			W	—	5500	—	
Viewing Angle at 50% IV	$2\theta_{1/2}$		S	—	115	—	Deg
			W	—	115	—	
Reverse Current	I_R		—	—	—	—	μA
Thermal Resistance Junction to Case	$R\theta_{J-C}$		S	—	0.15	—	K/W
		W	—	0.15	—		
Temperature Coefficient of Voltage	$V\Delta F/T$	S	—	-15.5	—	mV/°C	
		W	—	-15.5	—		
Color Rendering Index	Ra	S	—	90	—	—	
		W	—	90	—		

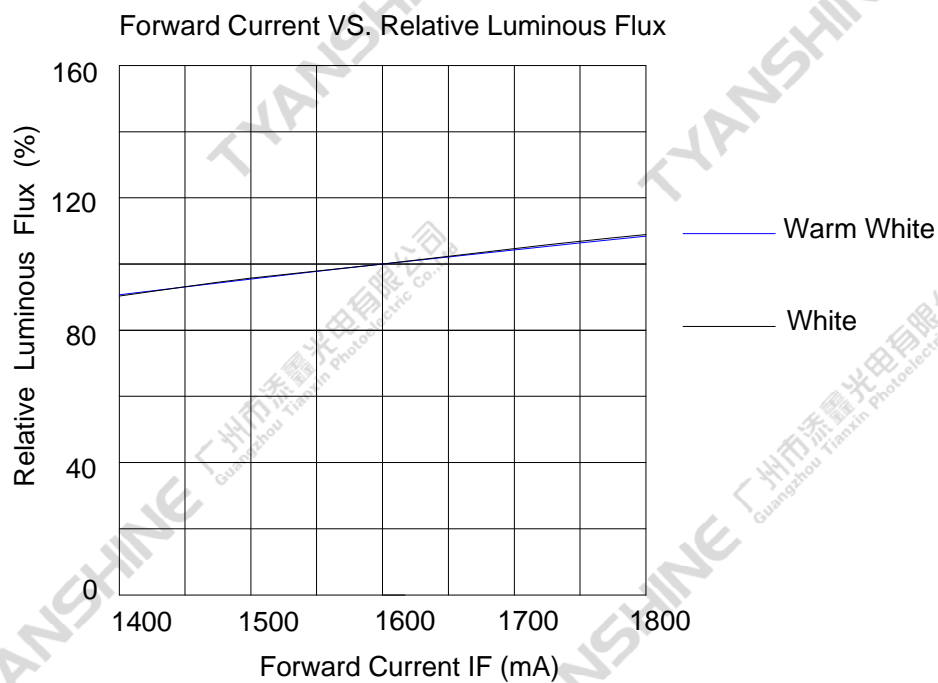
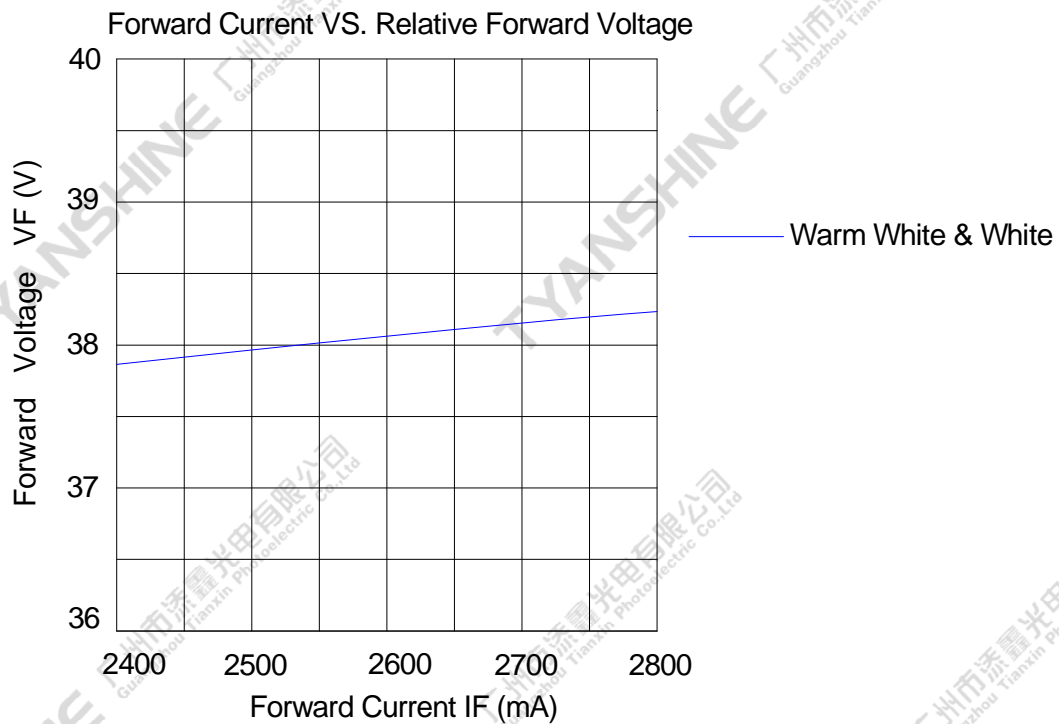
Notes:

- 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:±3%.
- 5.Ra measurement tolerance: ±2.

Part No.	TX-28200SW25A-3055V39-02H90	Spec No.	WKF-BF0359	Page	4 of 10
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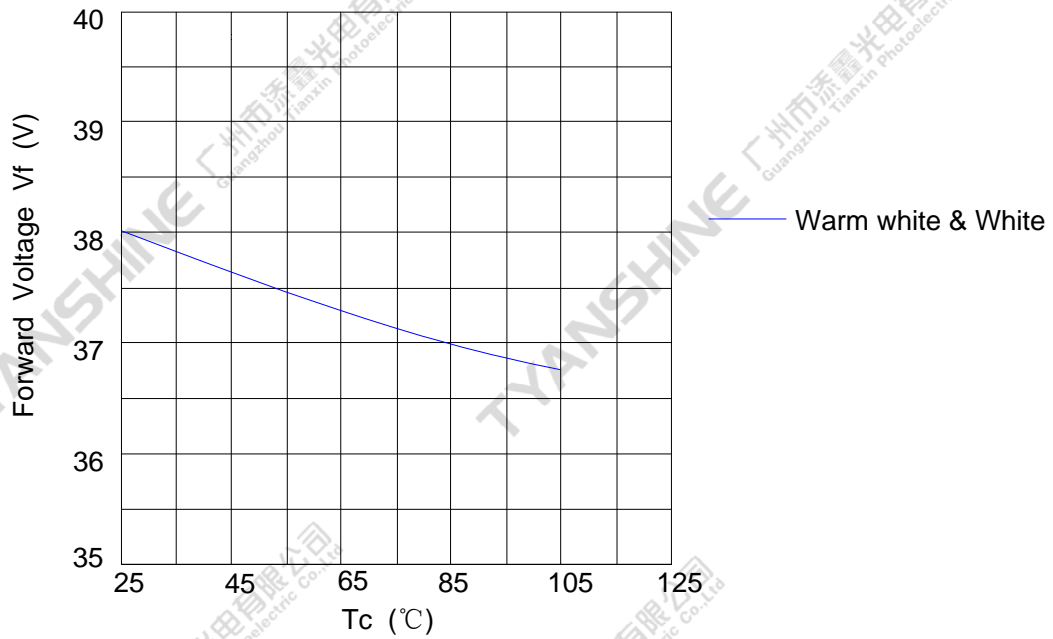
Typical Electrical/Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

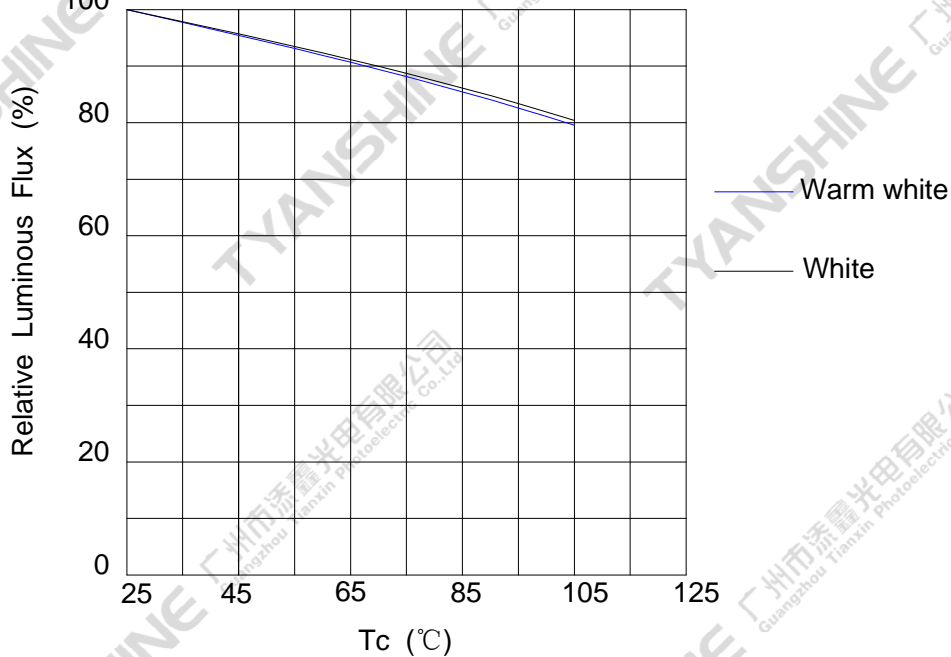


Part No.	TX-28200SW25A-3055V39-02H90	Spec No.	WKF-BF0359	Page	5 of 10
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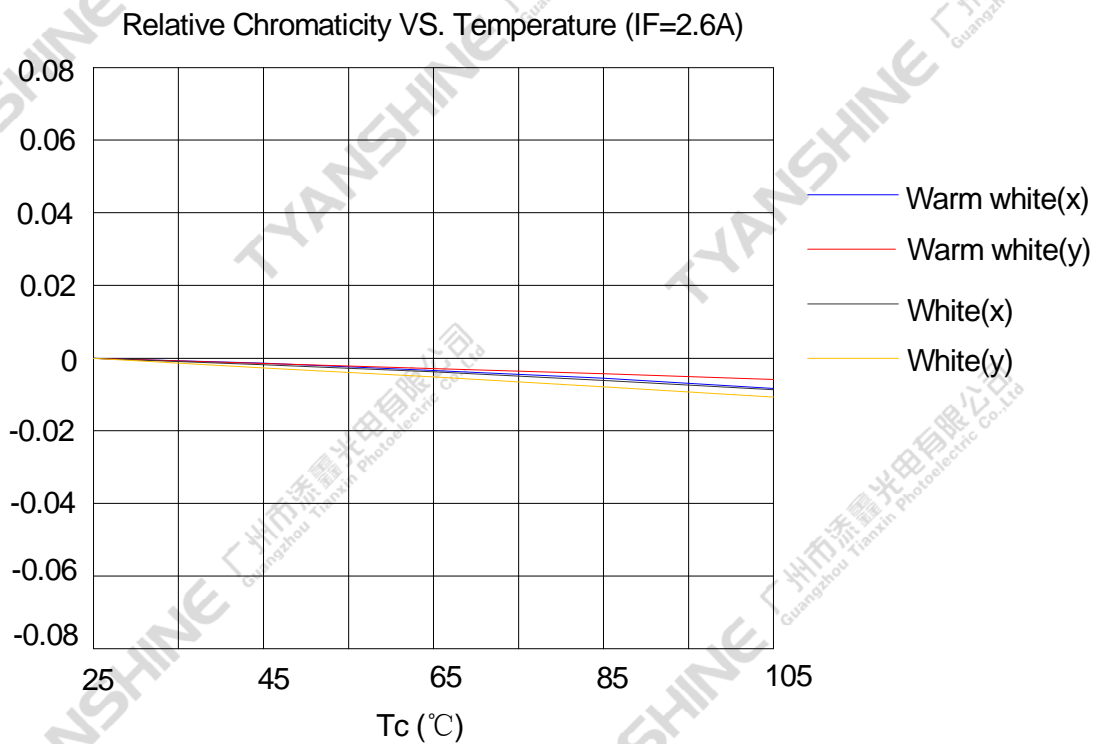
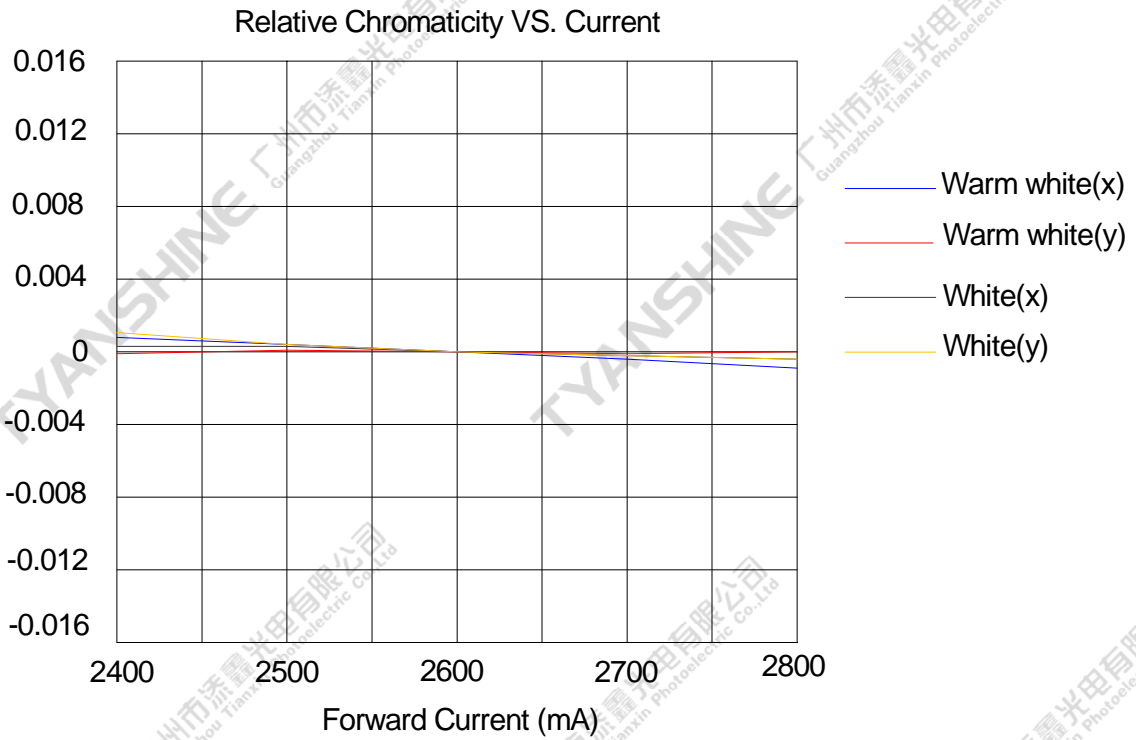
Temperature VS. Relative Luminous FLux (IF=2.6A)



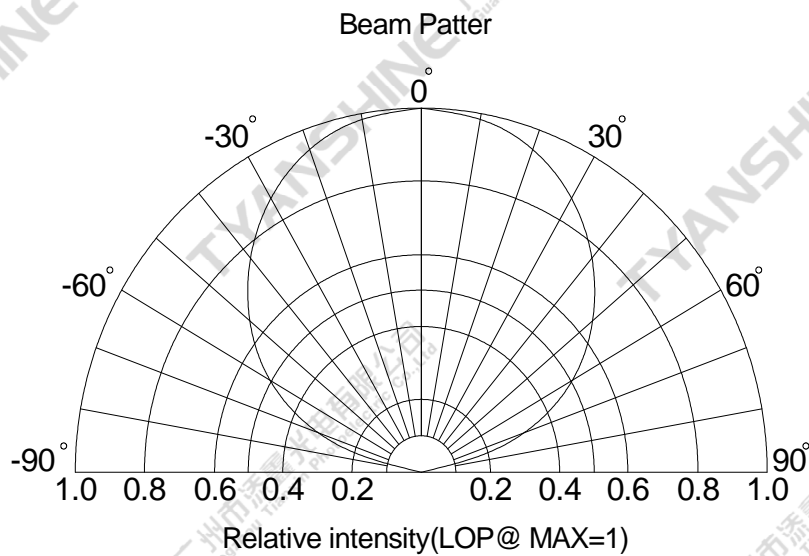
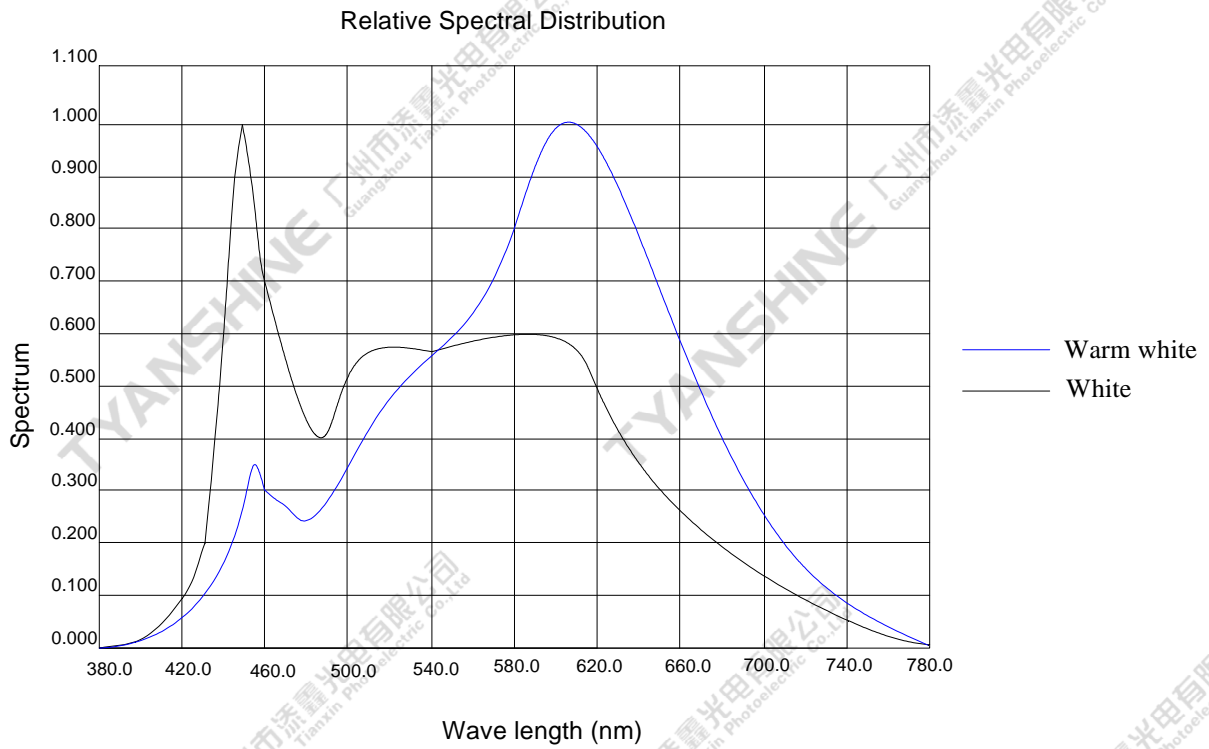
Temperature VS. Forward Voltage (IF=2.6A)



Part No.	TX-28200SW25A-3055V39-02H90	Spec No.	WKF-BF0359	Page	6 of 10
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Part No.	TX-28200SW25A-3055V39-02H90	Spec No.	WKF-BF0359	Page	7 of 10
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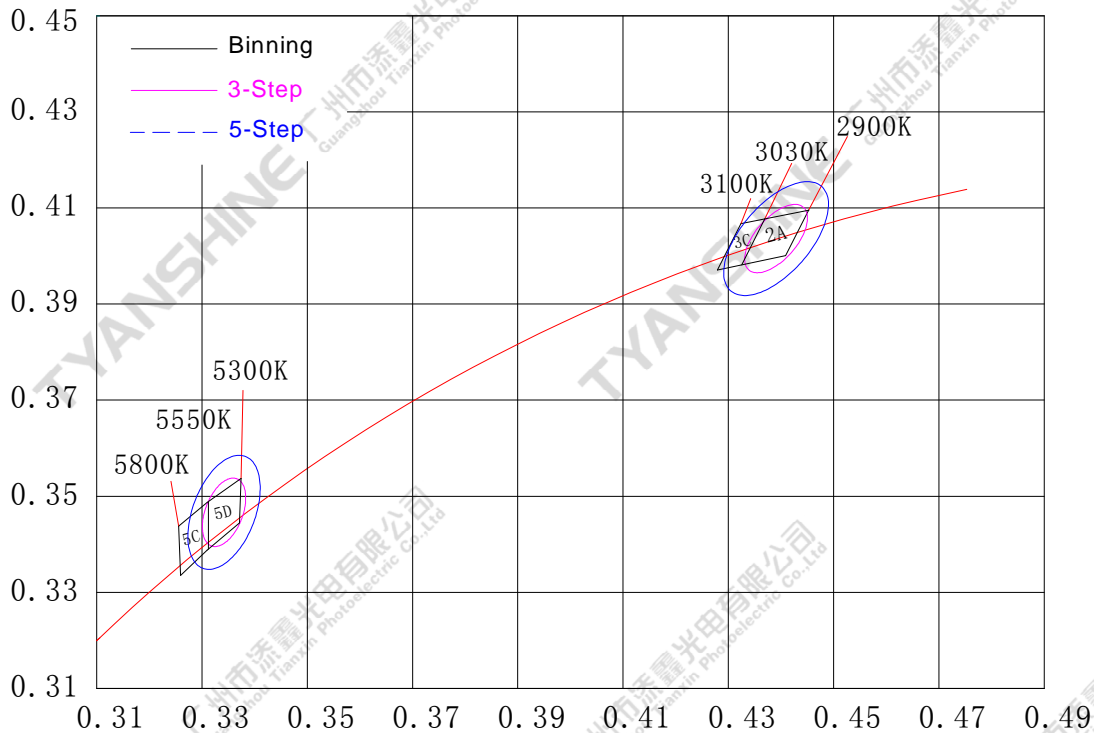


Notes:

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-28200SW25A-3055V39-02H90	Spec No.	WKF-BF0359	Page	8 of 10
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Chromaticity Coordinates (Condition : IF=2600mA , Tc=25°C)



Notes:

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

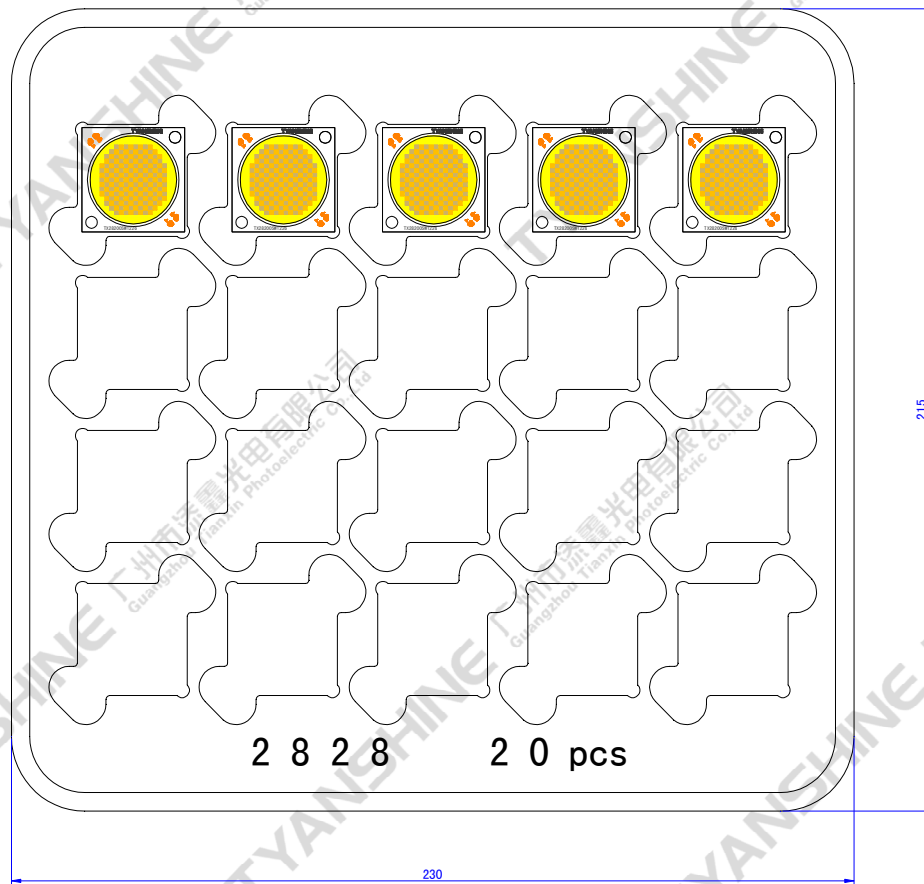
Reliability Test

Test Item	Test Condition
Continuous Operation Test	IF=2600mA Ta=25°C x1000hrs
Low Temperature Storage Test	-30°C x 1000 hours
High Temperature Storage Test	100 °C x 1000 hours
Moisture-proof Test	85 °C, 85 %RH for 500 hours
Thermal Shock Test	-30 °C x 30 minutes – 100 °C x 30 minutes, 100 cycle

Part No.	TX-28200SW25A-3055V39-02H90	Spec No.	WKF-BF0359	Page	9 of 10
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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, Irreponsible of the Company.

Part No.	TX-28200SW25A-3055V39-02H90	Spec No.	WKF-BF0359	Page	10 of 10
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