

TX-H1936SW17A-2760V39-02AH90

PRODUCT SPECIFICATION

Features:

- ◆Excellent transiting heat from LED chip operating under 1200mA.
- ◆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:

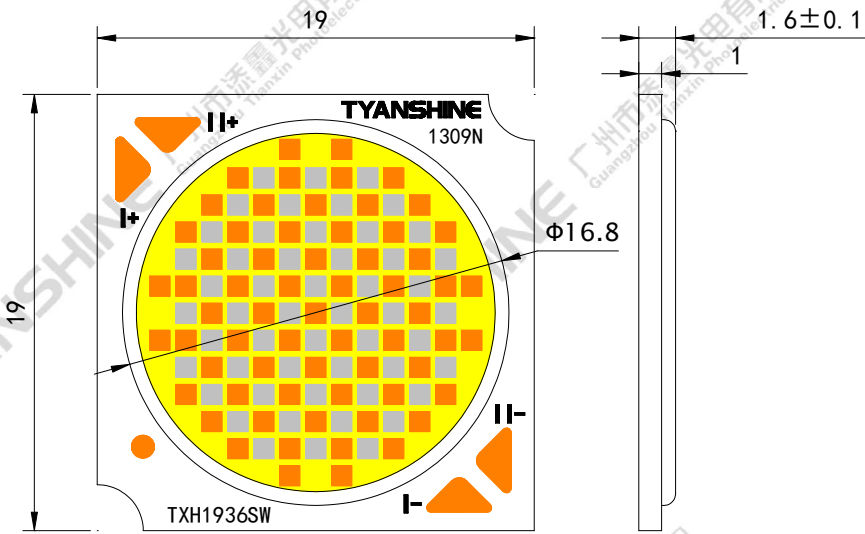
- ◆White
- ◆Warm white

Applications:

- ◆Commercial lighting
- ◆General Lighting

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Package Dimensions:



I: Warm White(S) II: White(W)

Notes:

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

Code Formats:

TX-H1936SW17A-3050V39-02AH90

TX	—	H	19	36	SW	17	A	—	3050	V39	—	02A	H90
TYANSHINE	—	high density	series	watt type	performance	LES	texture	—	CCT	VOL TS	—	BOM	Ra

Absolute Maximum Ratings

Parameter	Symbol		Ratings	Unit
Forward Current	IF		1200	mA
Reverse Voltage	VR		Not designed for reverse operation	V
Power Dissipation	PD	S	45	W
		W	45	
		S+W	45	
Junction Temperature	Tj	S	150	℃
		W	150	
Case Temperature (C)	Tc		85	℃
Electrostatic Discharge Threshold (ESD)	ESD		2000	V
Storage Temperature	Tstg		-30~+80	℃
Operation Temperature	Topr		-30~+85	

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 (Tc=25°C)

Parameter	Symbol	Condition	Emitting color	Min.	Typ.	Max.	Units	
Luminous Flux	φ_v	If=1000mA	S	3750	4100	4750	lm	
			W	4100	4600	5170		
Forward Voltage	V_f		S	35	36	38	V	
			W	35	36	38		
Correlated Colour Temperature	CCT		S	2920	3020	3150	K	
			W	4800	5000	6300		
Viewing Angle at 50 % IV	$2\theta_{1/2}$		S	—	115	—	Deg	
			W	—	115	—		
Reverse Current	I_R		—	—	—	—	—	μA
Thermal Resistance Junction to Case	$R\theta_{J-C}$		—	—	—	0.61	—	K/W
Color Rendering Index	Ra		If=1000mA	S	90	—	—	—
				W	90	—	—	

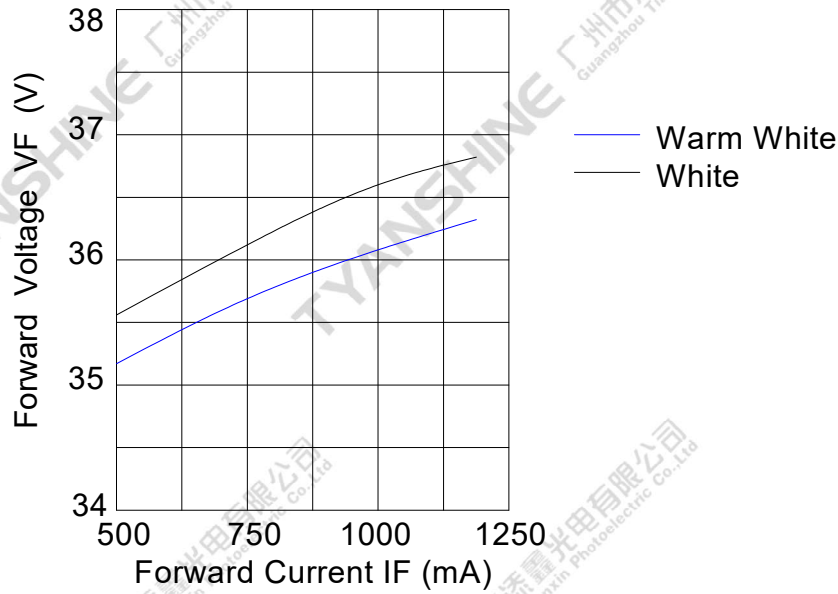
Notes:

- 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.

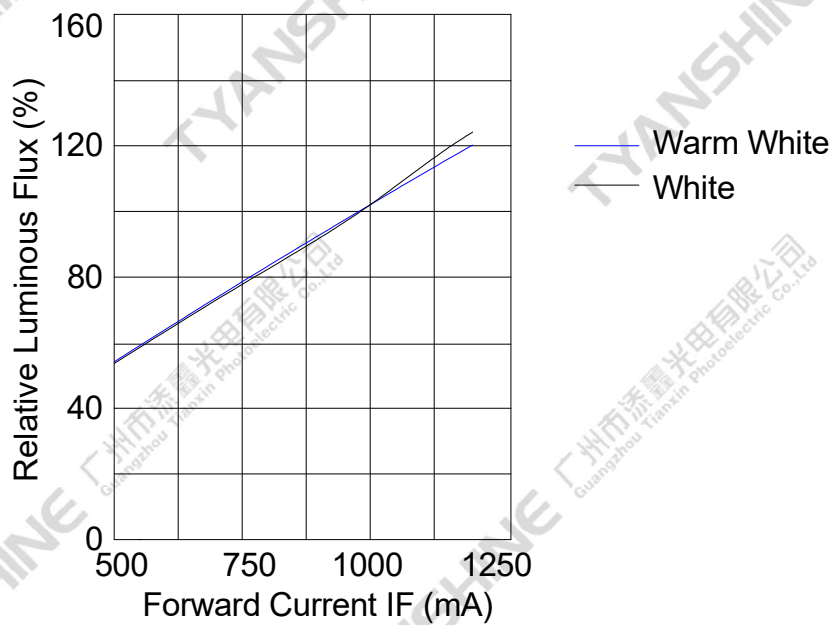
Typical Electrical/Optical Characteristics Curves

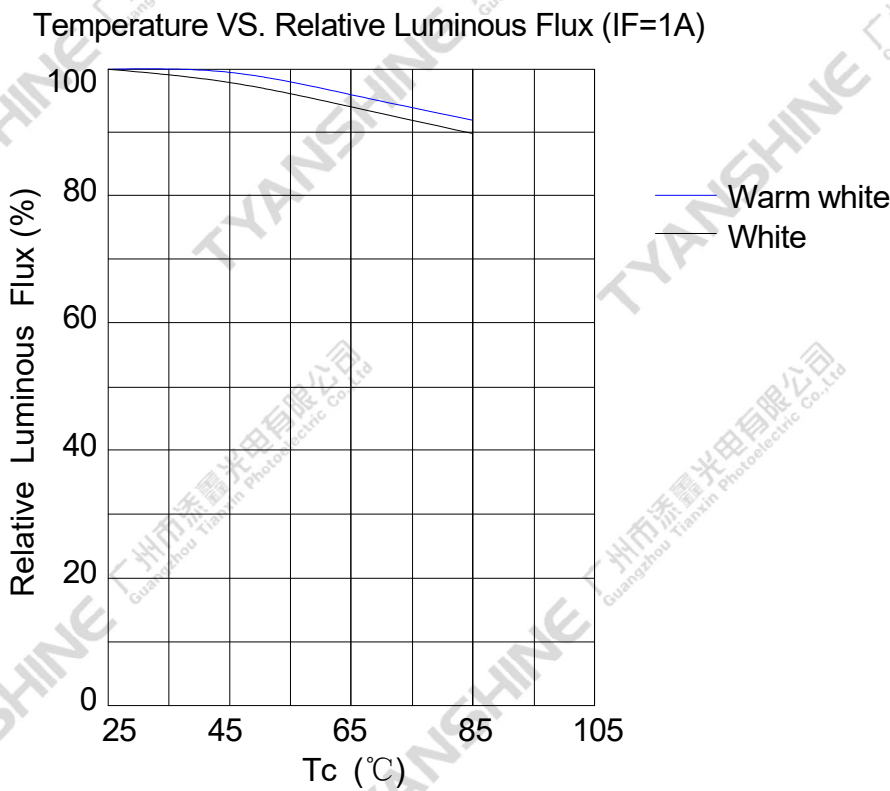
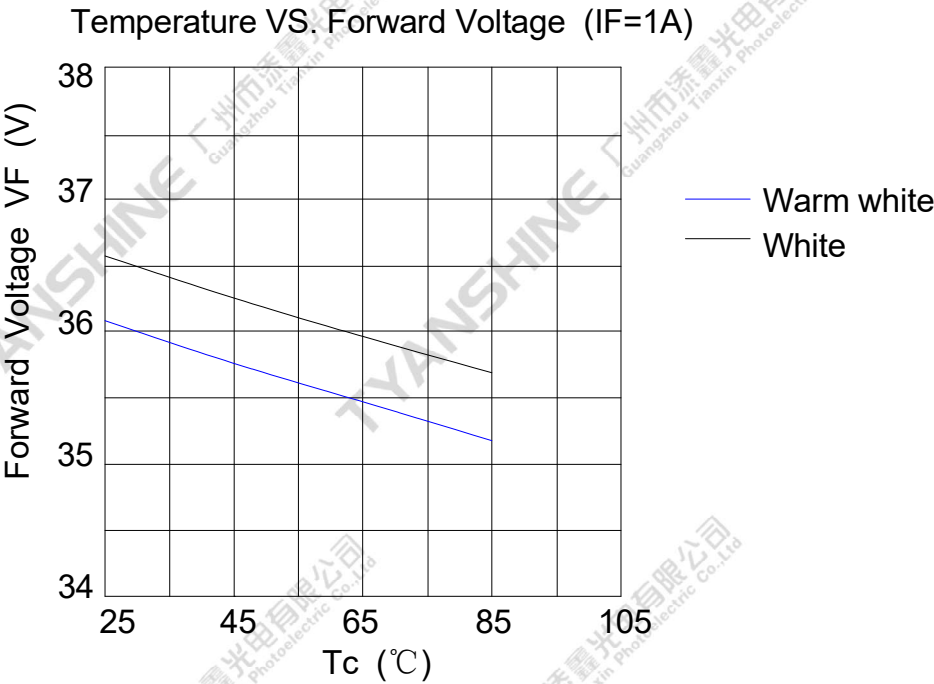
(25°C Ambient Temperature Unless Otherwise Noted)

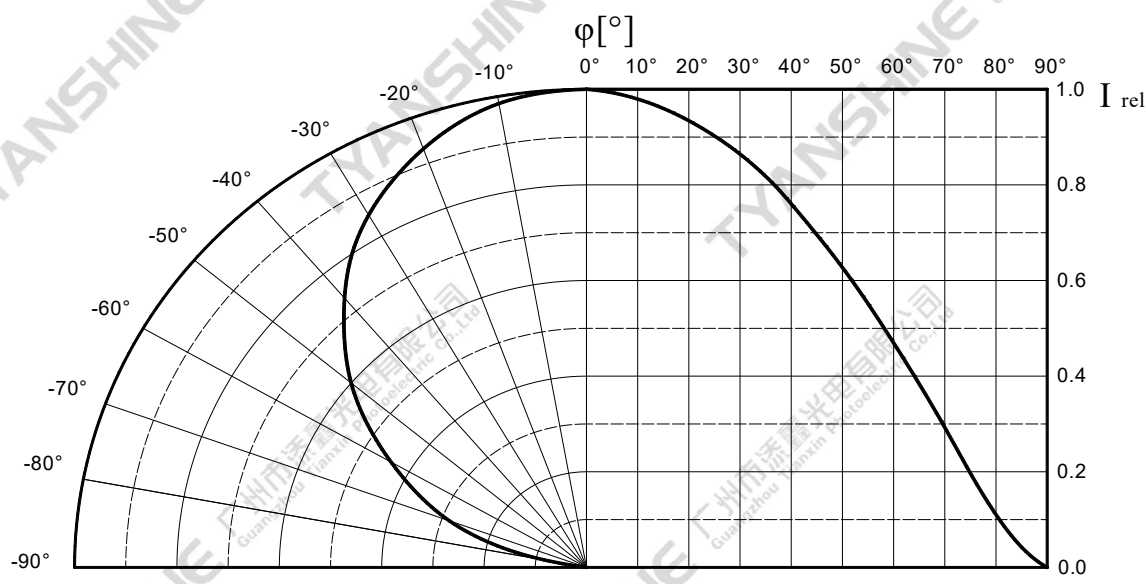
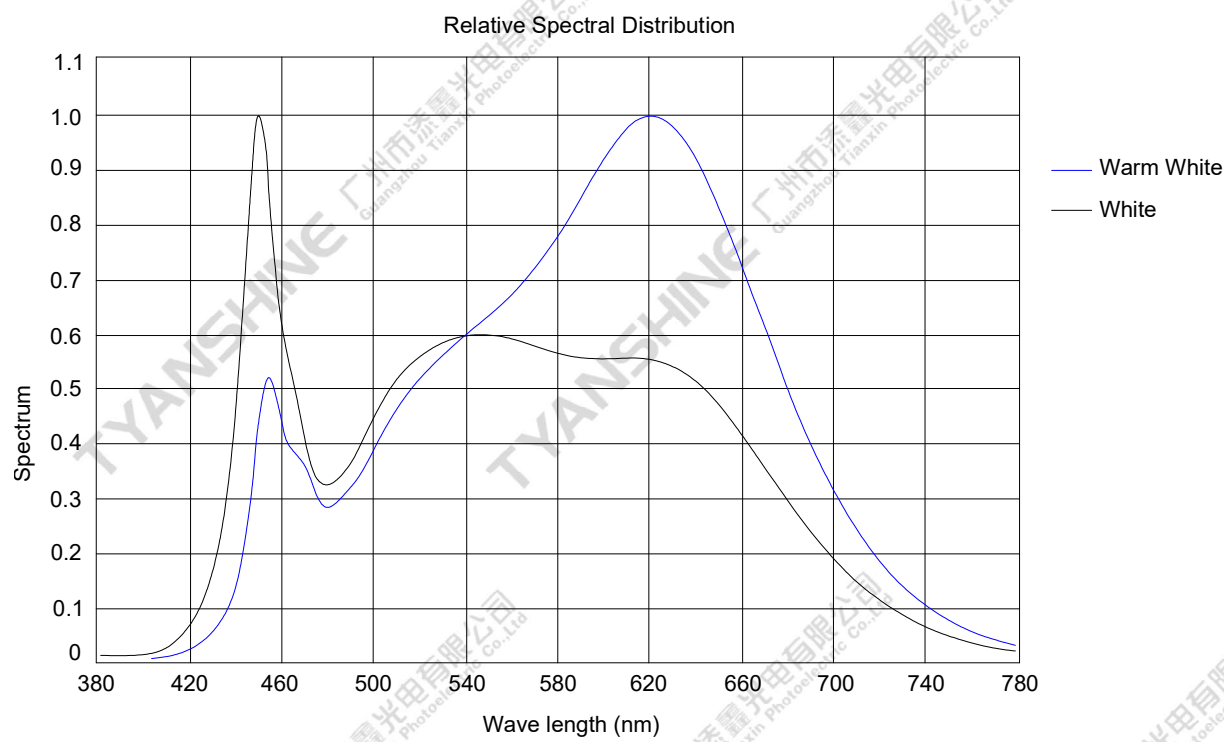
Forward Current VS. Forward Voltage



Forward Current VS. Relative Luminous Flux



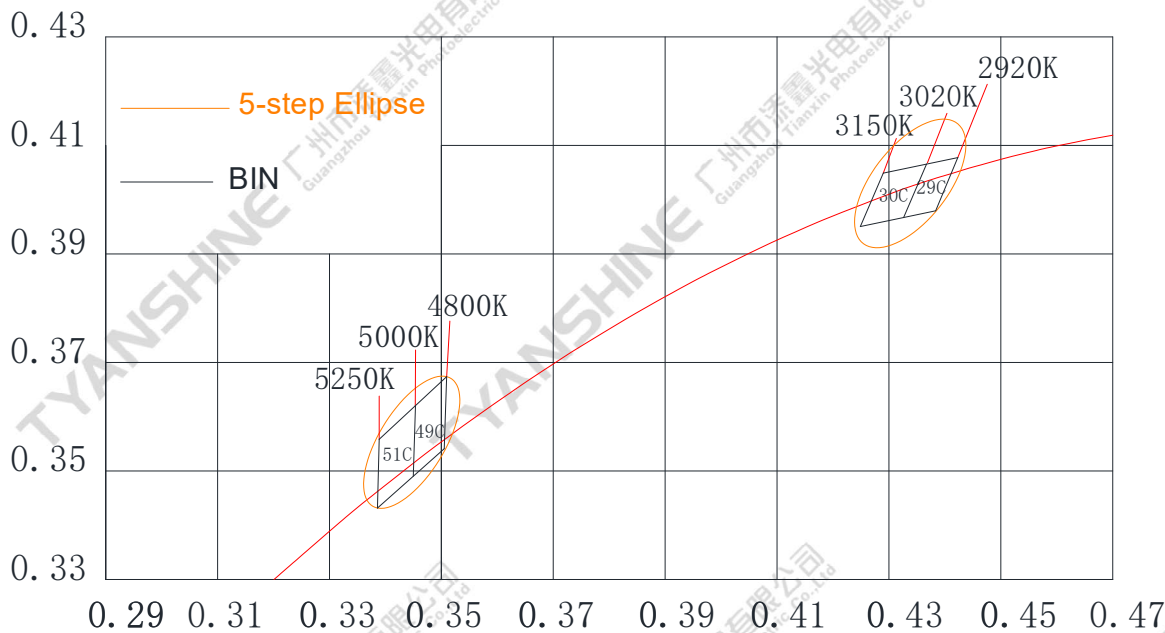




Notes:

- 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 $\pm 5^\circ$.

Chromaticity Coordinates (Condition: IF=1000mA, Tc=25℃)



5-step Ellipse					
CCT	Center Point		Major Axis	Minor Axis	Rotation Angle (°)
	x	y	a	b	
3000K	0.4338	0.403	0.0139	0.0068	53.2
5000K	0.3447	0.3553	0.0137	0.0059	59.6

Notes:

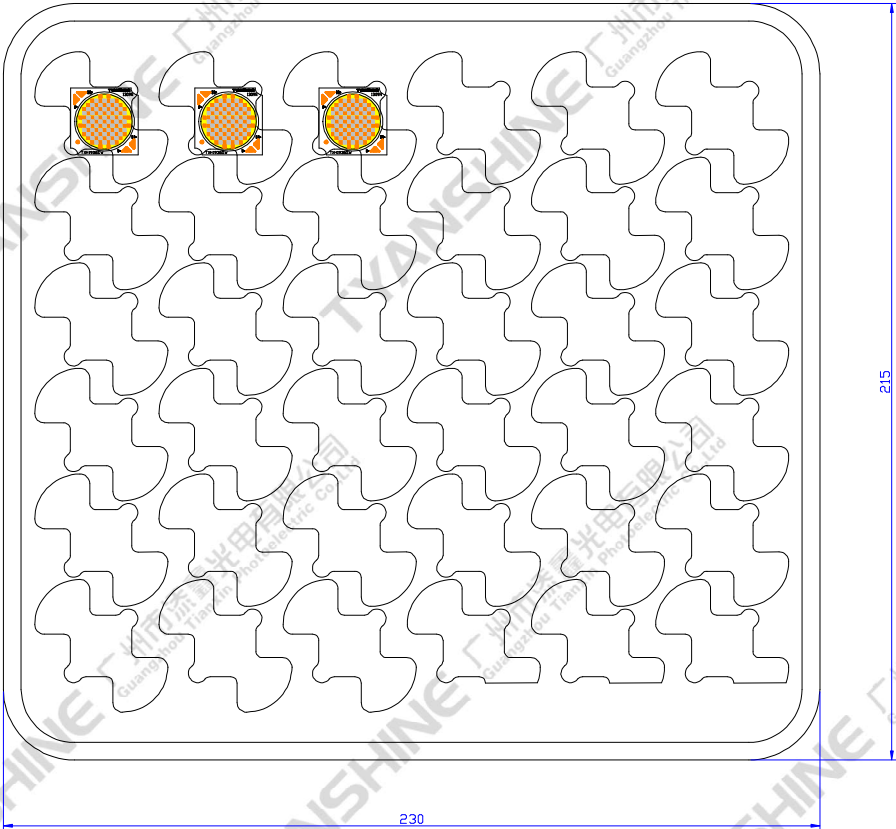
1. chromaticity (x, y) measurements tolerance: ±0.005.

Reliability Test

Test Item	Test Condition
Continuous Operation Test	IF=1000mA 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	-40 ℃ × 15 minutes – 125 ℃ × 15 minutes, 100 cycle

Dimensions For Cannulation And Packaging

Quantity: 36PCS



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.