

TX-1818BS30FC120-NUVENG-02A

PRODUCT SPECIFICATION

Features:

- ◆Excellent transiting heat from LED chip operating under 5.0A.
- ◆High luminous output.
- ◆No UV.
- ◆Encapsulated materials are environmentally certified and meet environmental requirements.

Chip Material:

- ◆GaN

Emitting Color:

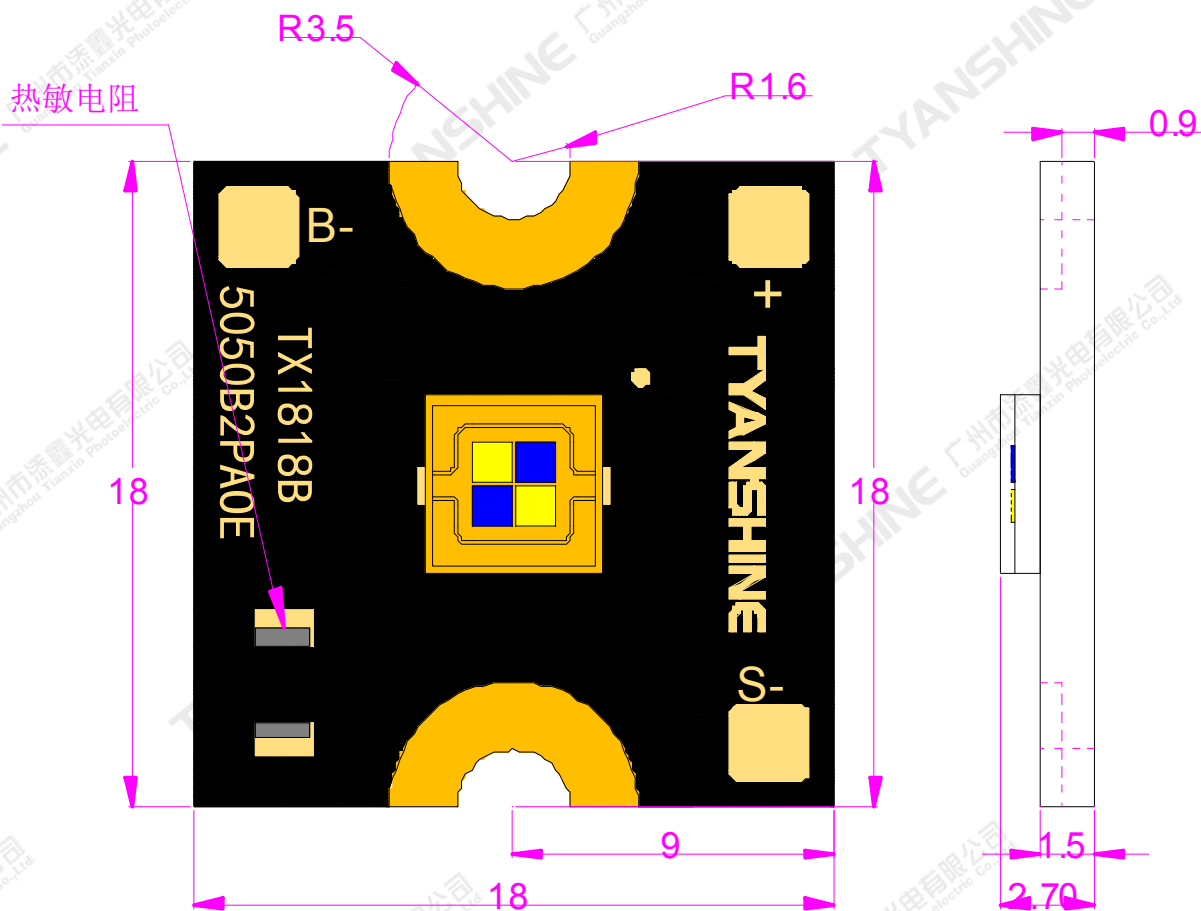
- ◆Blue
- ◆Warm white

Applications:

- ◆Auxiliary lighting
- ◆Architectural lighting

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Package Dimensions:



Notes:

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

Absolute Maximum Ratings (Tc=25℃)

Parameter	Symbol		Ratings	Unit
Forward Current	IF		5.0	A
Reverse Voltage	VR		Not designed for reverse operation	V
Power Dissipation	PD	B	18.2	W
		S	18.5	
Junction Temperature	Tj	B	150	℃
		S	150	
Electrostatic Discharge Threshold (ESD)	ESD		2000	V
Storage Temperature	Tstg		-40~+70	℃
Operation Temperature	Topr		-30~+100	

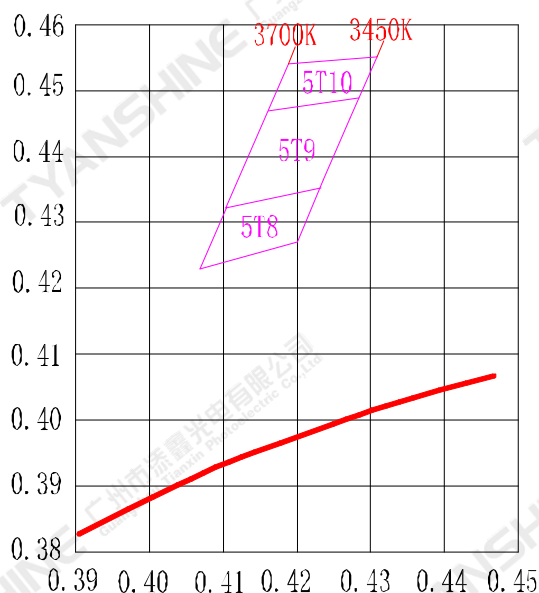
Notes:

- 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 (Tc=25°C)

Parameter	Symbol	Condition	Emitting color	Min.	Typ.	Max.	Units
Luminous Flux	Φ_v	If=5.0A	B	140	160	180	lm
			S	1100	1300	1500	
Dominant Wavelength	λ_d		B	448	453	458	nm
Peak-emission Wavelength	λ_p		B	443	448	453	nm
Correlated Colour Temperature	CCT		S	3450	3570	3700	K
Spectral Line Half-Width	$\Delta\lambda$		B	17	22	27	nm
			S	111	116	121	nm
Forward Voltage	V_f		B	2.95	3.35	3.75	V
			S	3.0	3.4	3.8	
Viewing Angle at 50 % IV	$2\theta_{1/2}$		B	—	120	—	Deg
			S	—	120	—	
Reverse Current	I_R		—	B	—	—	μA
		S		—	—	—	
Thermal Resistance Junction to Case	$R\theta_{J-C}$	If=5.0A	B	—	0.88	—	K/W
			S	—	0.88	—	
Temperature Coefficient of Voltage	$V\Delta F/T$		B	—	-3.7	—	mV/°C
			S	—	-3.7	—	

White light Color coordinate filing (IF=5.0A,Tc=85℃)



Region	CCT Range		X1	Y1	X2	Y2	X3	Y3	X4	Y4
	Min	Max								
5T8	3450K	3700K	0.3101	0.4299	0.3136	0.4392	0.3264	0.4423	0.3233	0.4340
5T9			0.3136	0.4392	0.3193	0.454	0.3317	0.4559	0.3264	0.4423
5T10			0.3193	0.454	0.322	0.4611	0.3341	0.4621	0.3317	0.4559

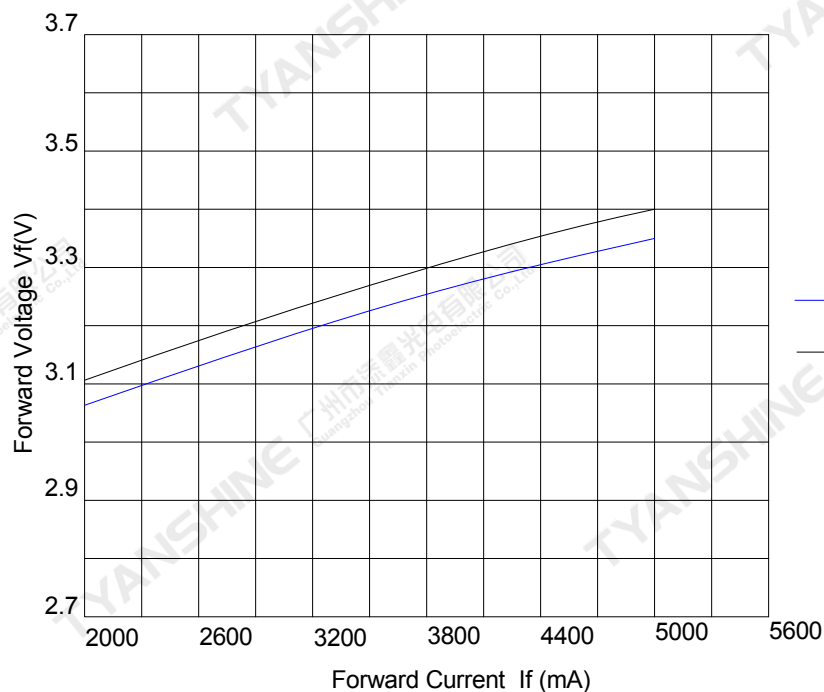
Notes:

- 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: $\pm 15\%$.
- 4.Forward voltage measurement tolerance: $\pm 0.15V$.

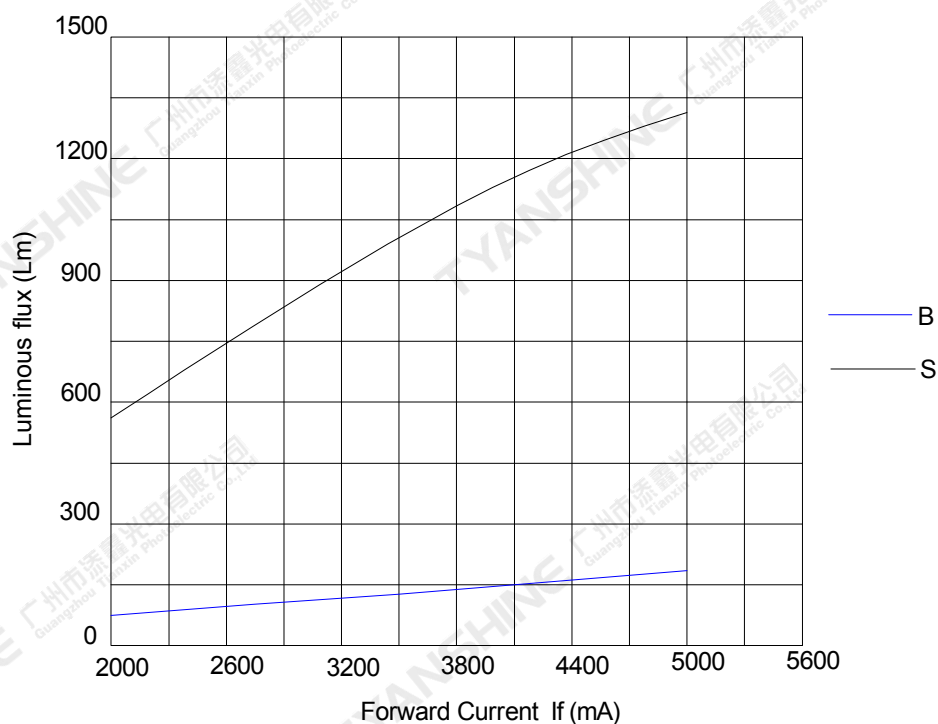
Typical Electrical/Optical Characteristics Curves

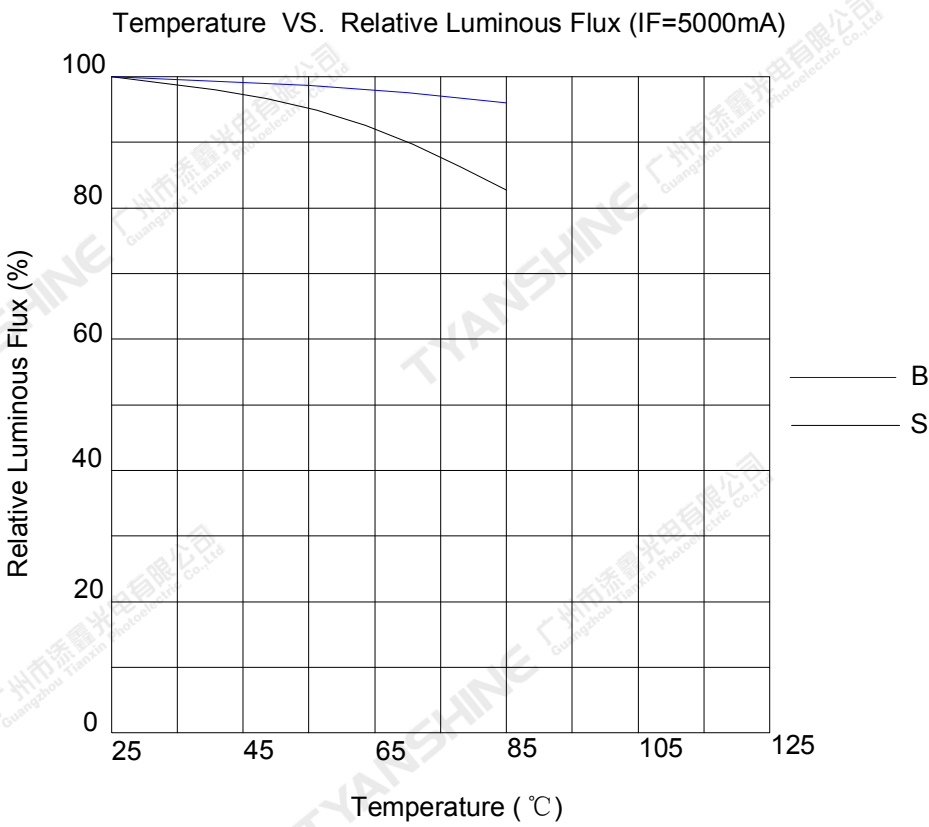
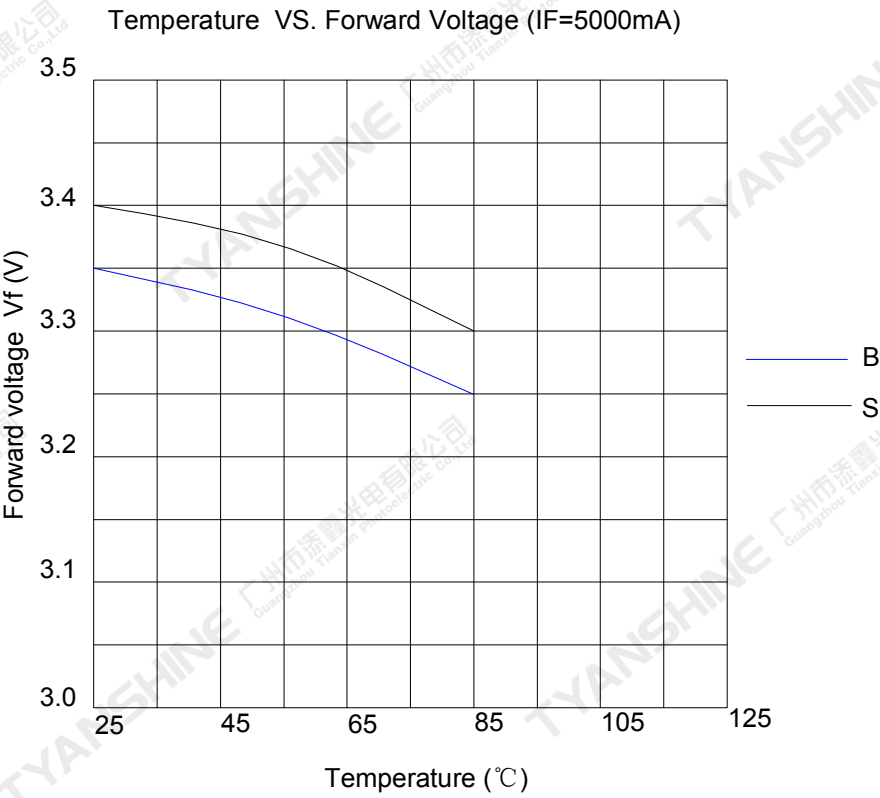
(25°C Ambient Temperature Unless Otherwise Noted)

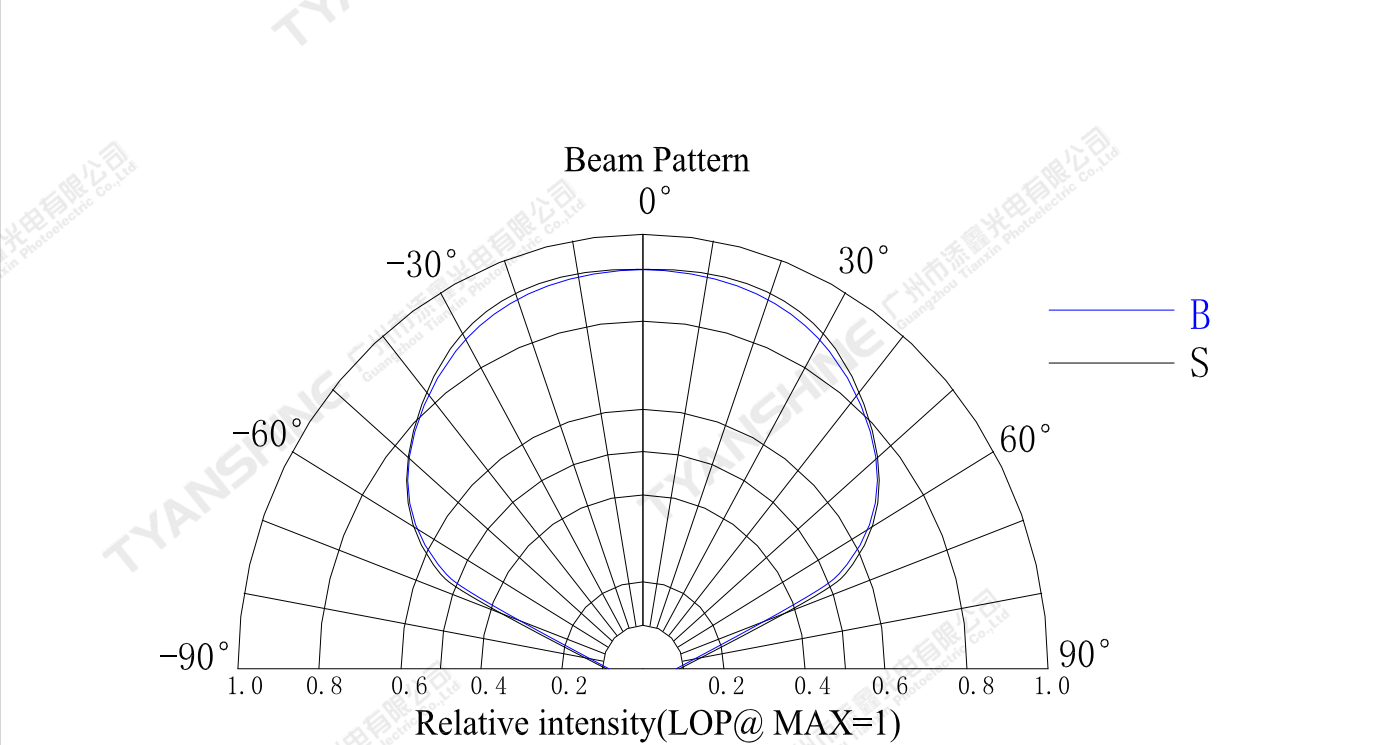
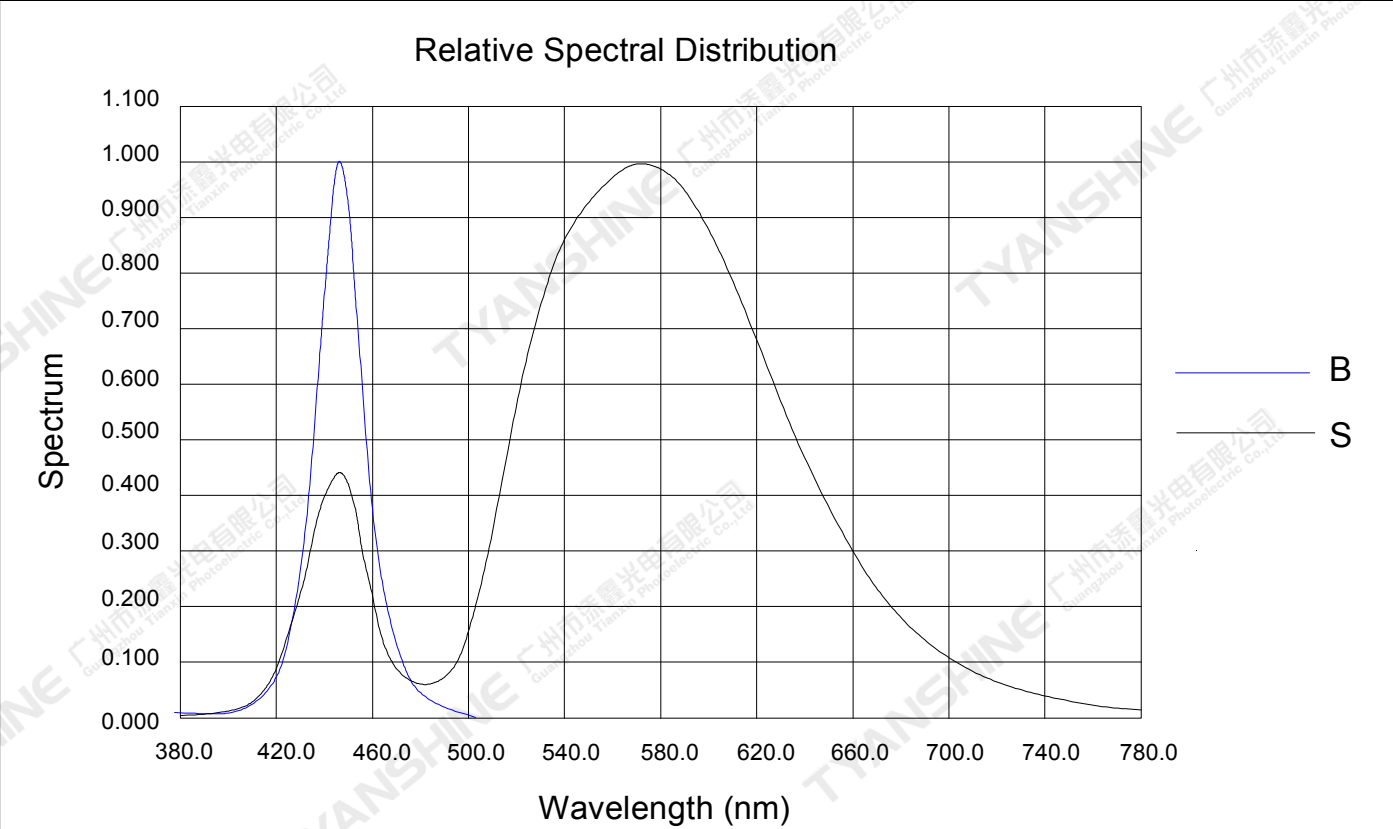
Forward Current VS. Forward Voltage



Forward Current VS. Luminous flux





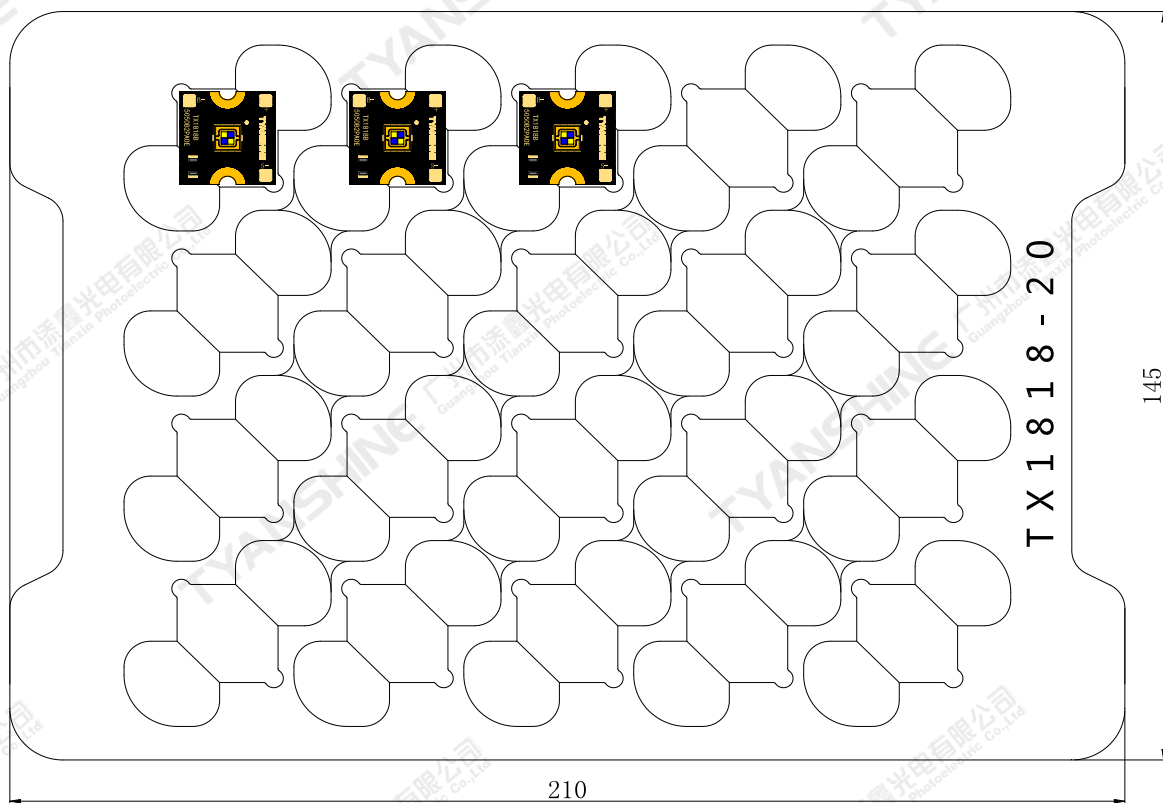


Notes:

- 2θ 1/2 is the off axis angle from lamp centerline where the luminous intensity is 1/2 of the peak value.
- View angle tolerance is ± 5°.

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.