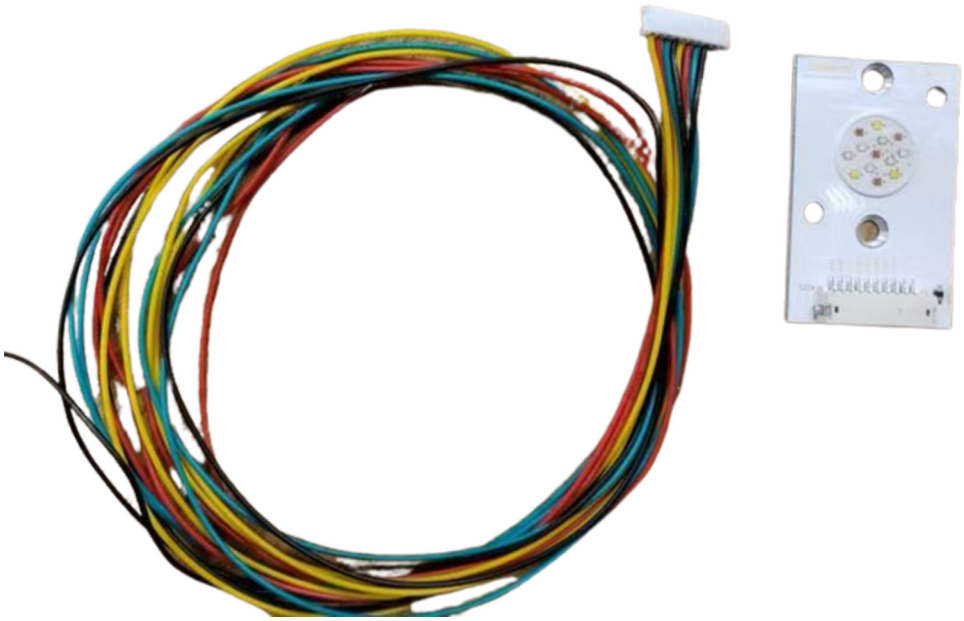

LAS-2844RGBS40C14

PRODUCT SPECIFICATION

Features:

- Excellent transiting heat from LED chip operating under 900mA.
- Mixing any two colors of light, there will be no partial color and color spots uneven phenomenon.
- High luminous output.
- No UV.
- Encapsulated materials are environmentally certified and meet environmental requirements.

Chip Material:

- Red: AlGaInP
- Green: GaInN
- Blue: GaN
- Warm White: GaN

Emitting Color:

- Red
- Green
- Blue
- Warm White

Applications:

- Entertainment lighting
- Landscape lighting
- Commercial lighting
- Decorative lighting

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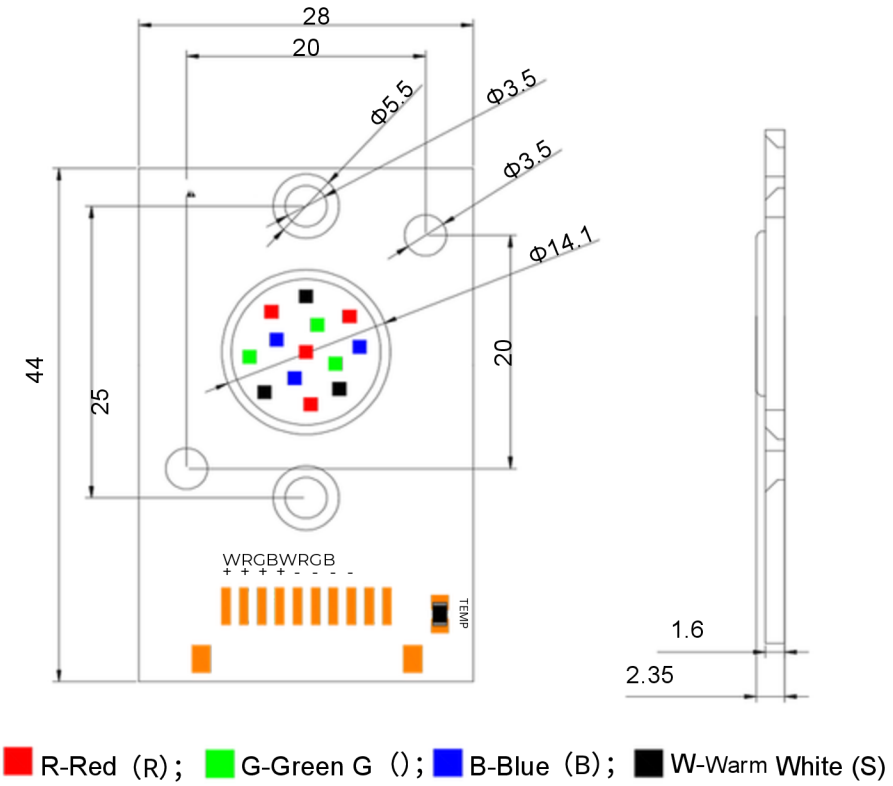
Package Dimensions:



R-Red (R); G-Green G (); B-Blue (B); W-Warm White (S)

Notes:

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

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Absolute Maximum Ratings (Tc=25℃)

Parameter	Symbol		Rati ng s	Unit
Forward Current	IF	R	900	mA
		G	900	
		B	900	
		S	900	
Reverse Voltage	V_R		Not designed for reverse operation	V
Power Dissipation	P_D	R	9900	mW
		G	9900	
		B	9900	
		S	9900	
Junction Temperature	Tj	R	115	℃
		G	135	
		B	135	
		S	135	
Electrostatic Discharge Threshold (ESD)	ESD		2000	V
Storage Temperature	Tstg		-30~+70	℃
Operation Temperature	Topr		-30~+80	

Notes:

1.Specifications are subject to change without notice.

2.The data on this specification is for reference only and the actual data is in accordance with the acknowledgment.

3.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 Symb	Min.	Typ.	Max.	Unit s
Luminous Flux	φv	If=900mA	R	400	500	—	lm
			G	520	620	—	
			B	100	130	—	
			S	500	600	—	
Dominant Wavelength	λd		R	620	625	628	nm
			G	522	527	530	
			B	452	456	460	
Peak-emission Wavelength	λp		R	630	635	640	nm
			G	516	521	526	
			B	448	452	456	
Correlated Colour Temperature	CRCT		S	2800	—	3000	K
Spectral Line Half-Width	Δλ		R	15	20	25	nm
			G	25	30	35	
			B	15	20	25	
Forward Voltage	Vf		R	8	9.5	11	V
			G	8	9.5	11	
			B	8	9.5	11	
			S	8	9.5	11	
Viewing Angle at 50％IV	2—θ1/2	—	—	—	115	—	Deg
Thermal Resistance Junction to Case	RθJ-C	If=900mA	—	—	0.8	—	K/W

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%.

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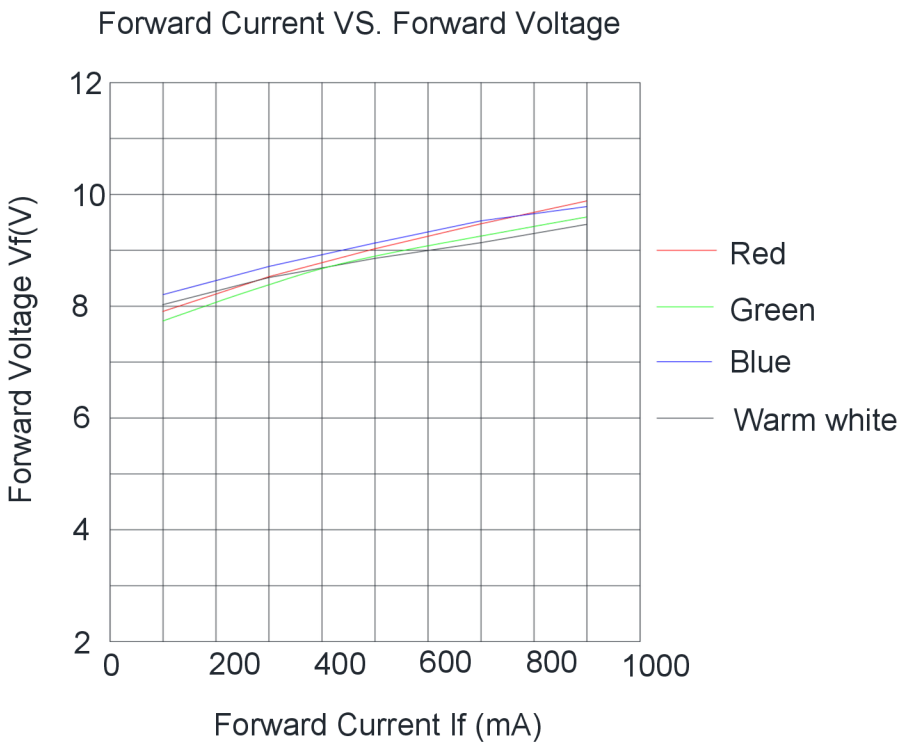
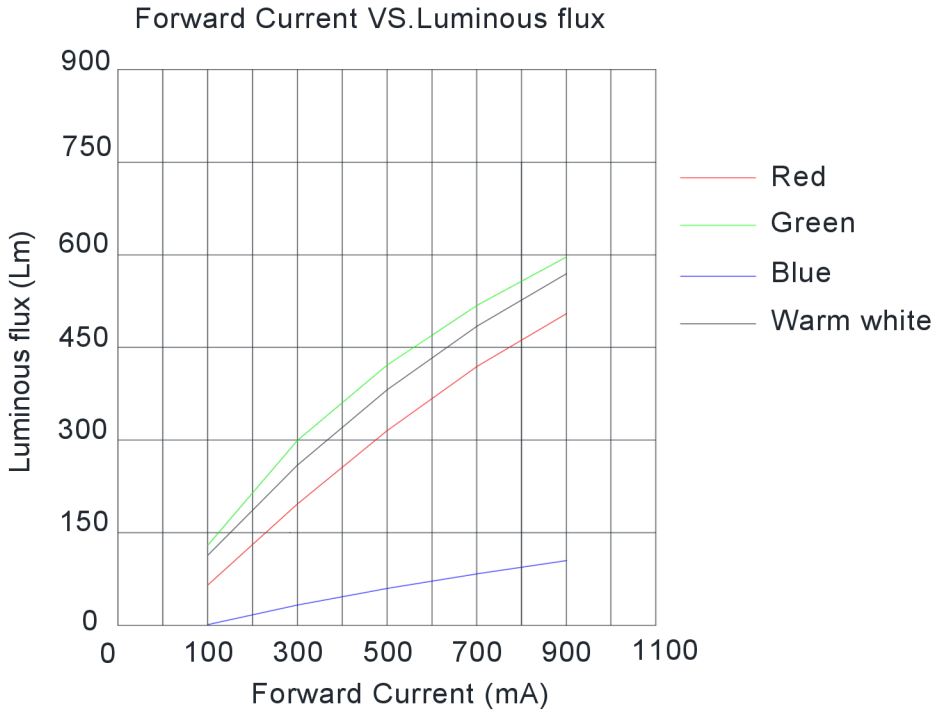
Typical Electrical/Optical Characteristics Curves

(25℃ Ambient Temperature Unless Otherwise Noted)





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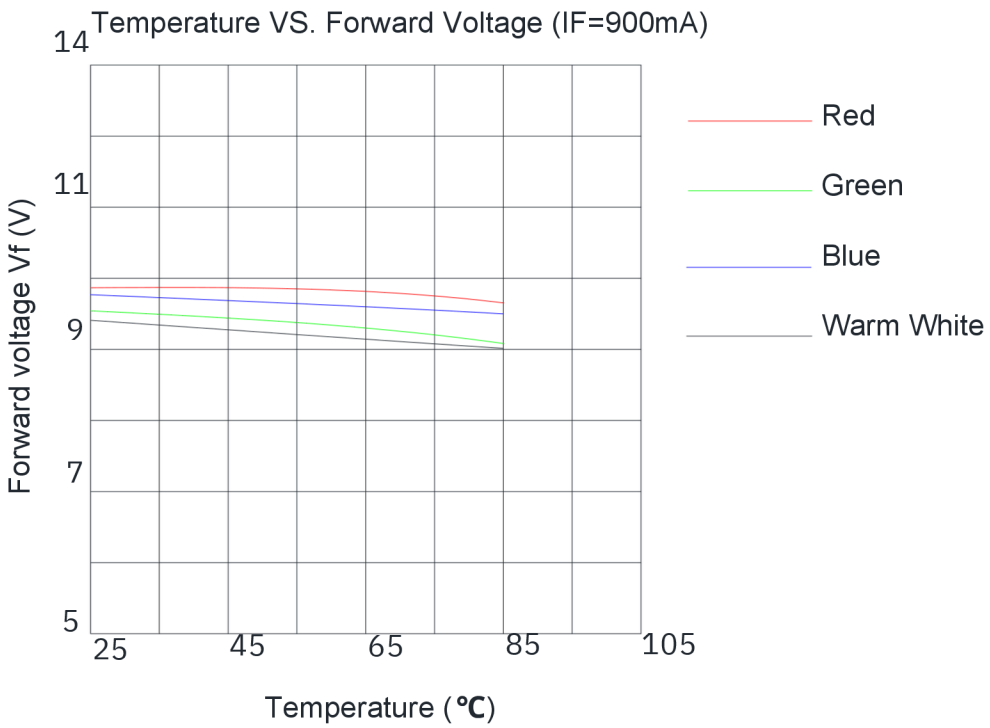
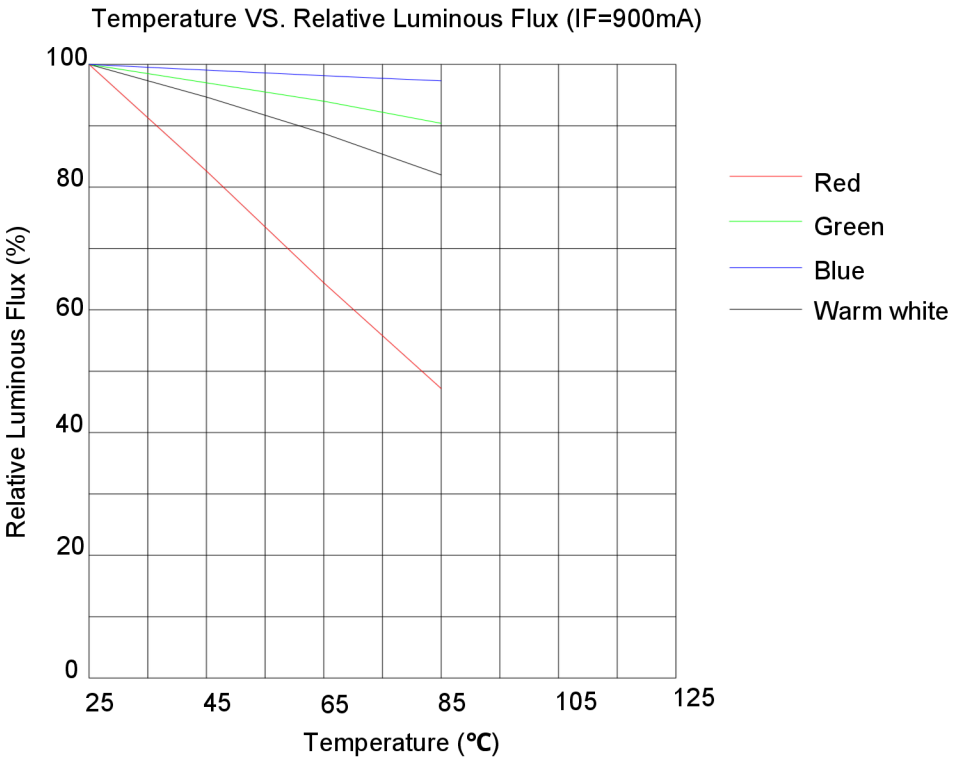
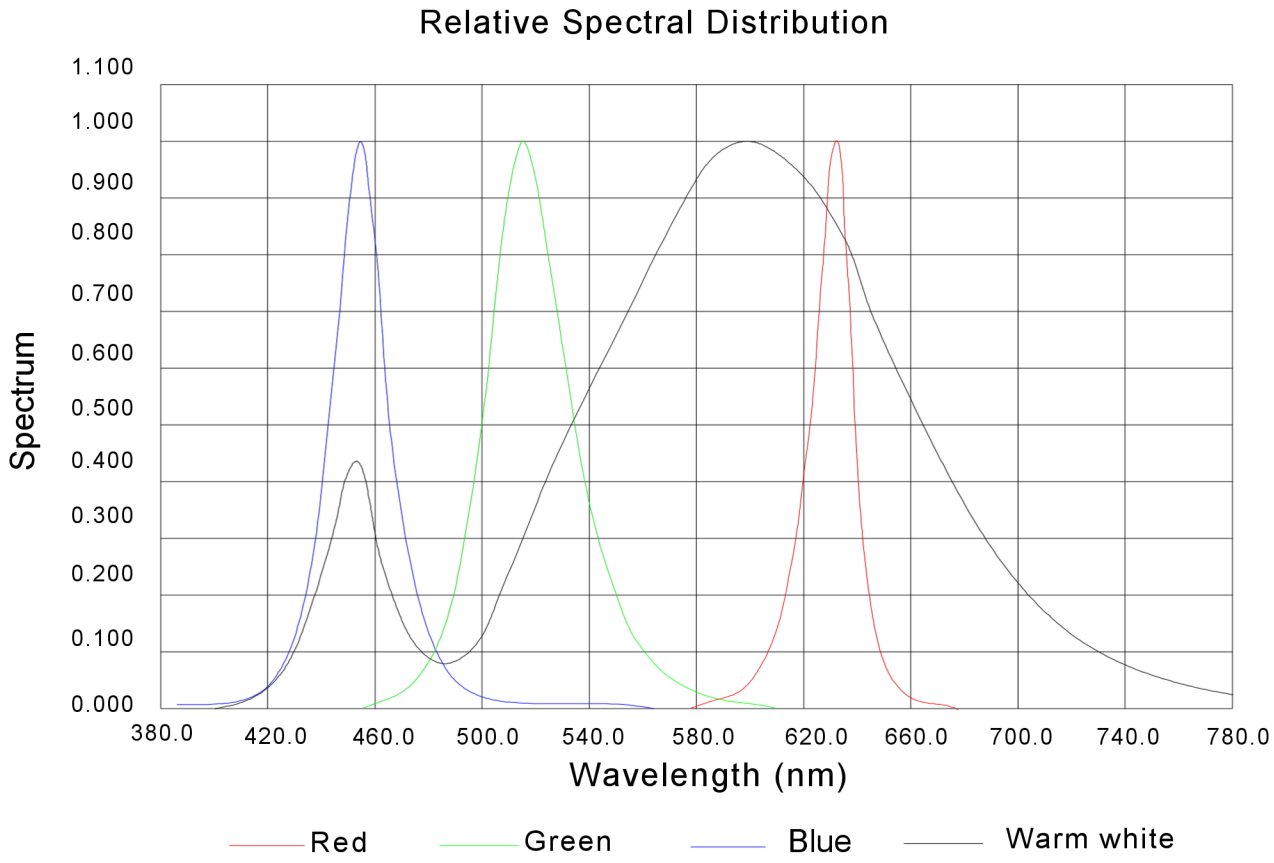
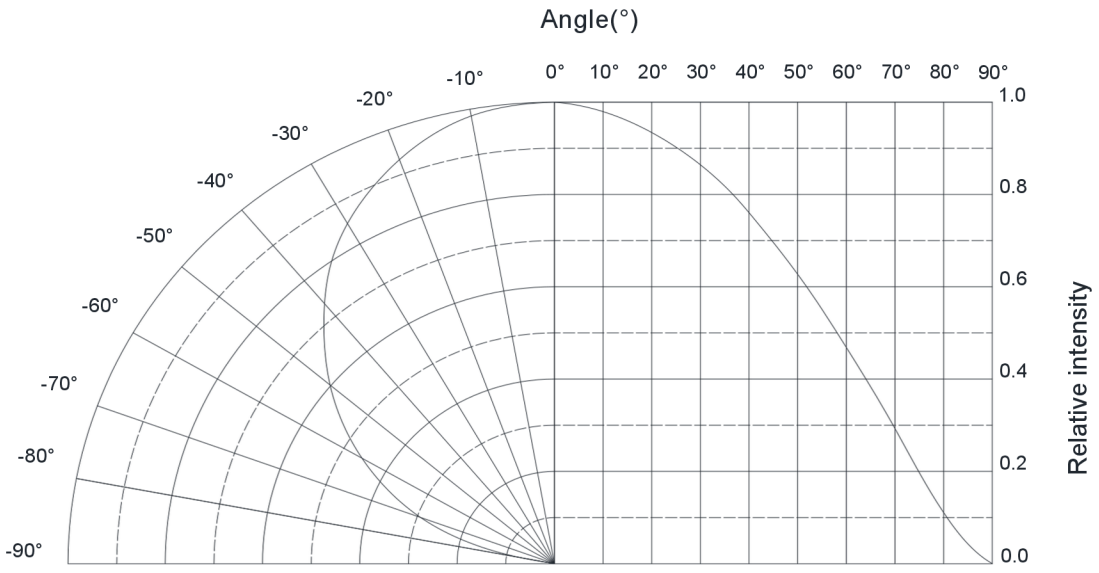

Temperature VS. Forward Voltage (IF=900mA)
14
11
9
7
5
Forward voltage Vf (V)
25
45
65
85
105
Temperature (℃)
Red
Green
Blue
Warm White


Temperature VS. Relative Luminous Flux (IF=900mA)
100
80
60
40
20
0
Relative Luminous Flux (%)
25
45
65
85
105
125
Temperature (℃)
Red
Green
Blue
Warm white





Notes:

1. 2θ1/2 is the off-axis angle from lamp center line where the luminous intensity is 1/2 of the peak value.
2. View angle tolerance is ± 5°.

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Dimensions For Cannulation And Packaging

Quantity: 6PCS

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.

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