



PRODUCT SPECIFICATION

SLX-1919RGBW40C17V7-01H90

RGBW COB LED

Part No. SLX1919RGBW-40C17V17-01H90

SLX series COB LED's LEDs are optimized for premium lighting applications, including track, spot and downlights

Features

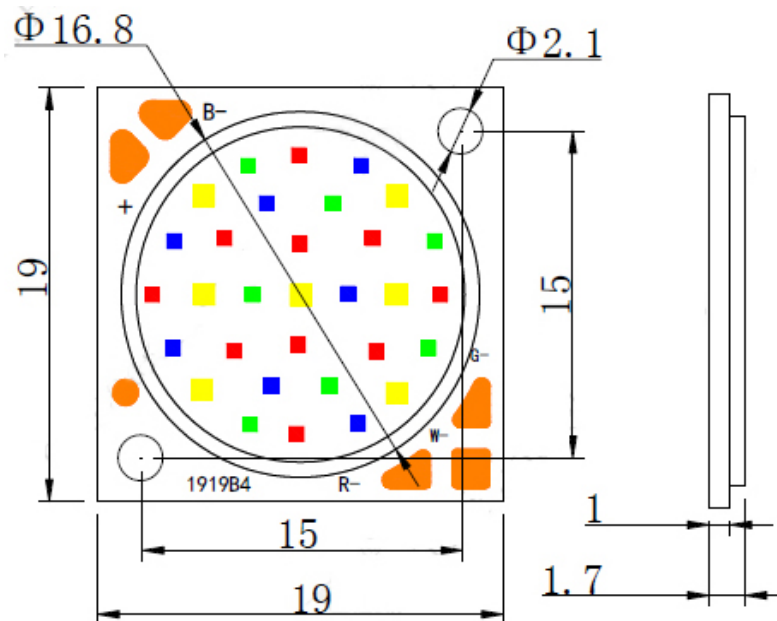
- High intensity Chip-on-Board LED lamp
- 19x19mm square
- LES 15.0mm
- Smooth, even light output
- No UV

Applications

- Indoor Lighting
- Outdoor Lighting
- Industrial Lighting
- Consumer Lighting



Dimensions



Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	MAX.	Unit
LED Junction Temperature	Tj	110	°C
Power Dissipation	Pd	R	8000
		G	8000
		B	8000
		W	16000
Continuous Forward Current	If	R	350
		G	350
		B	350
		W	700
Reverse Voltage	Vr	-	V
Electrostatic Discharge Threshold	ESD	2000	V
Operating Temperature Range	Topr	-30 to +70	°C
Storage Temperature Range	Tstg	-30 to +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 (Ta=25C RGB If=350mA , W If=700mA)

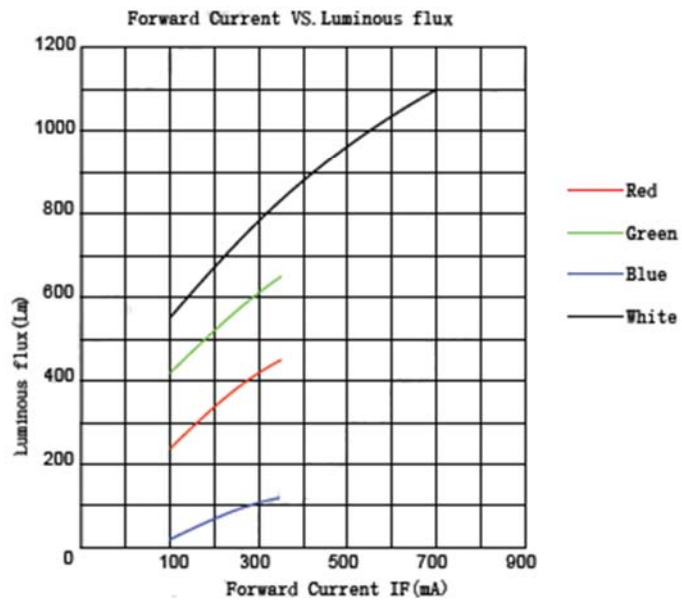
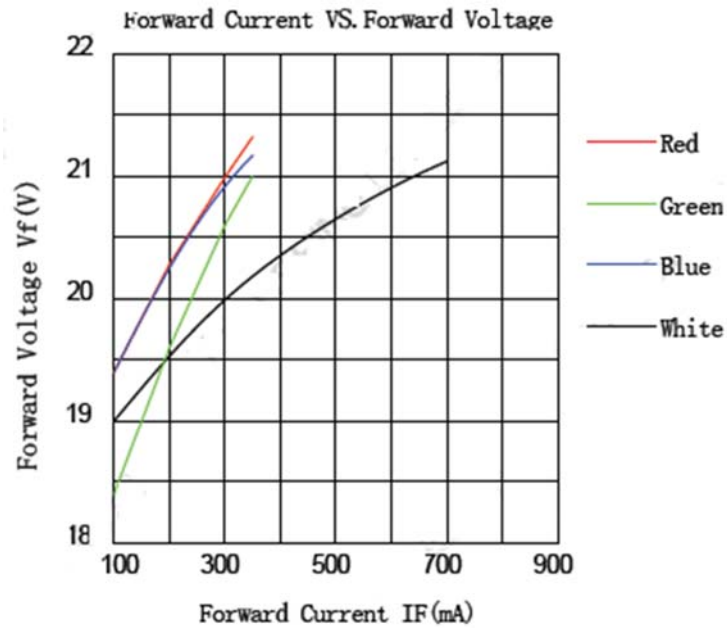
Parameter	Symbol	Emitting Colour	Values			Units
			Min	Typ	Max	
Luminous Flux	ϕ_V	R	320	450		lm
		G	480	650		
		B	90	120		
		W	950	1100		
Viewing Angle at 50 % IV	2 θ 1/2	R, G, B, W		115		Degrees
Peak Emission Wavelength	λ_p	R	627	632	637	nm
		G	515	520	525	
		B	447	452	455	
Dominant Wavelength	λ_d	R	618	623	628	nm
		G	522	525	528	
		B	452	455	458	
Spectral Line Half-Width	$\Delta\lambda$	R	15	20	25	nm
		G	25	30	35	
		B	15	20	25	
Forward Voltage	Vf	R	19	21	23	V
		G				
		B				
		W				
Correlated Colour Temperature	CCT	W	4100		4300	
			6100		6500	
Color Rendering Index	IR	-	-	-	-	μ A
Thermal Resistance Junction to Case	R θ J-C	-	-	1.5	-	K/W

Notes:

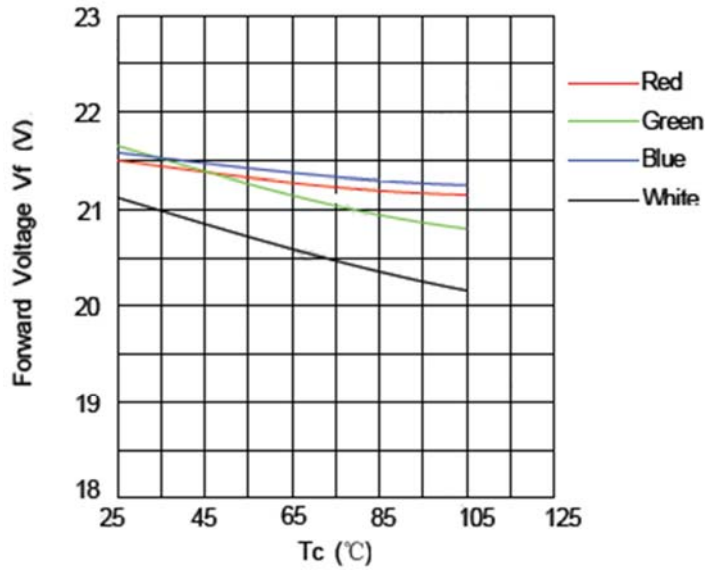
1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. θ 1/2 is the off-axis angle at which the luminous intensity is half the axial luminous intensity
3. The dominant wavelength (λ_d) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.
4. Flux is measured with an accuracy of \pm 15%.
5. Forward voltage is measured with an accuracy of \pm 0.15V.

Typical Electrical / Optical Characteristics Curves

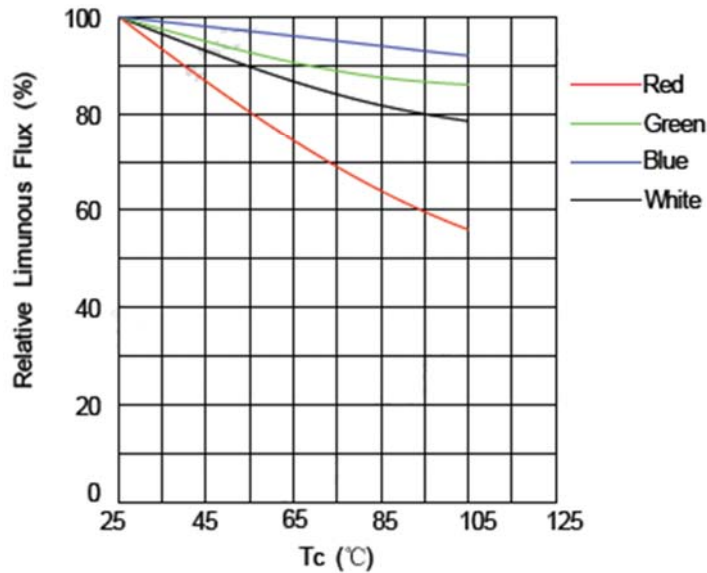
(25°C Ambient Temperature Unless Otherwise Noted)

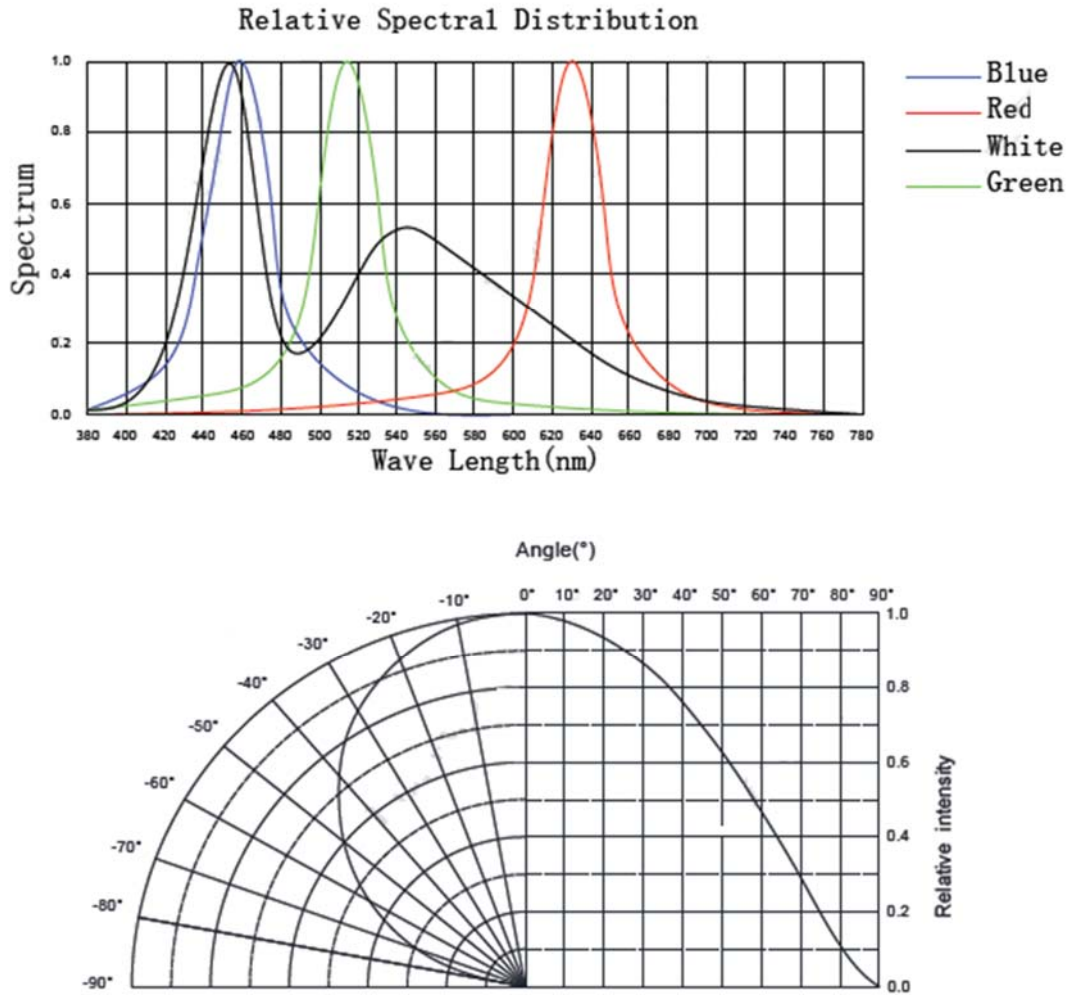


Temperature VS. Forward Voltage ($I_{F(RGB)}=350mA, I_{F(W)}=700mA$)



Temperature VS. Relative Luminous FLux ($I_{F(RGB)}=350mA, I_{F(W)}=700mA$)





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. Viewing angle tolerance is $\pm 5^\circ$

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