

# THEM-CLC Flux LED



RoHS  
Compliant



## Features:

- Long operating life
- Energy efficiency
- Low thermal resistance
- Compact design
- Instant light
- Fully dimmable
- No UV
- Superior ESD protection

## Typical Applications:

- Reading lights
- Portable light
- Orientation
- Entertainment
- Garden
- Security light
- Ceiling light
- Architectural lighting
- General lighting
- Jewel display illumination

## Absolute Maximum Ratings:

Parameter	1W
DC Forward Current	350mA
Peak Pulse Current	500mA
LED Junction Temperature	110°C
Operating Temperature	-30°C to +100°C
Storage Temperature	-40°C to +120°C
Soldering Temperature	Manual 260°C(max) 5 Seconds
Reverse Voltage	Manual 260°C (max) 5 Seconds

## Flux Characteristics at 350mA, Junction Temperature, $T_J=25^{\circ}\text{C}$

Colour	Minimum Luminous Flux(lm)	Typical Luminous Flux(lm)	Max. Luminous Flux(lm)	Beam Pattern
Blue	18	25	-	Lambertian

Notes :

1. Luminous flux is measured with an accuracy of  $\pm 10\%$

## Optical Characteristics at 350mA, Junction Temperature, $T_J=25^{\circ}\text{C}$

Colour	Dominant Wavelength $\lambda_d$ Peak Wavelength $\lambda_p$ or Colour Temperature (CCT)		Viewing Angle Degree
	Min.	Max.	
Blue	460 nm	470 nm	201/2 155

Notes :

1. CCT  $\pm 5\%$  tester tolerance.
2. Wavelength is measured with an accuracy of  $\pm 0.5\text{nm}$ .

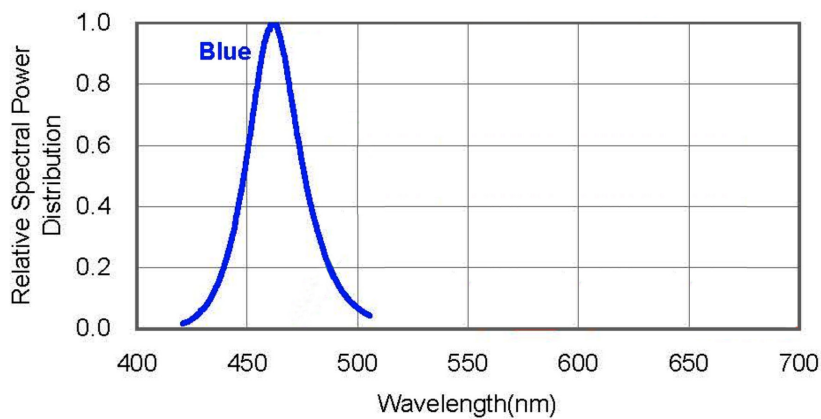
## Electrical Characteristics at 350mA, Junction Temperature, $T_J=25^\circ\text{C}$

Colour	Forward Voltage $V_F(\text{V})$			Temperature Coefficient of $V_F(\text{mV}/^\circ\text{C})$	Thermal Resistance Junction to lead ( $^\circ\text{C}/\text{W}$ )
	Min.	Typ.	Max.	$\Delta V_F/\Delta T_J$	
Blue	-	3.2	3.6	-2	12

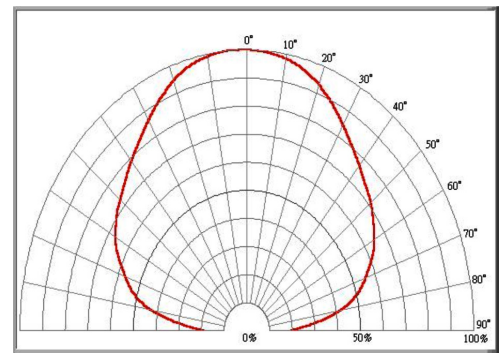
Notes:

1.  $V_F \pm 0.1\text{V}$  tester tolerance.

## Colour spectrum, $T_J = 25^\circ\text{C}$

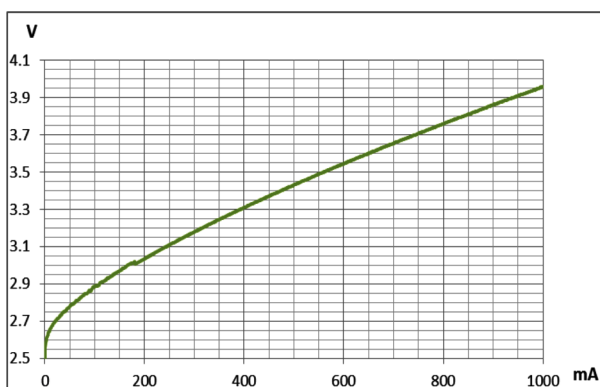


## Radiation Diagram



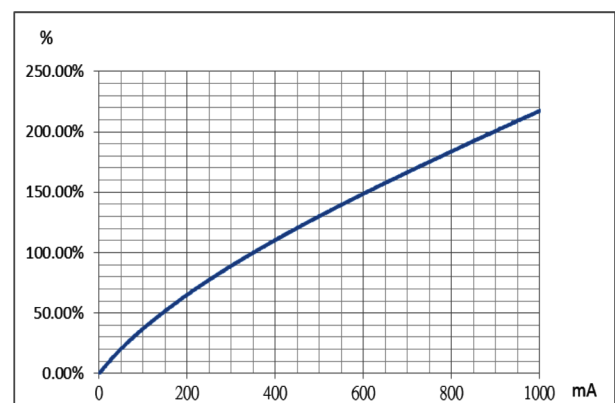
Typical Spatial distribution for Blue

## Forward Voltage & Forward Current



Typical Spatial distribution for Blue

## Luminous Flux & Forward Current

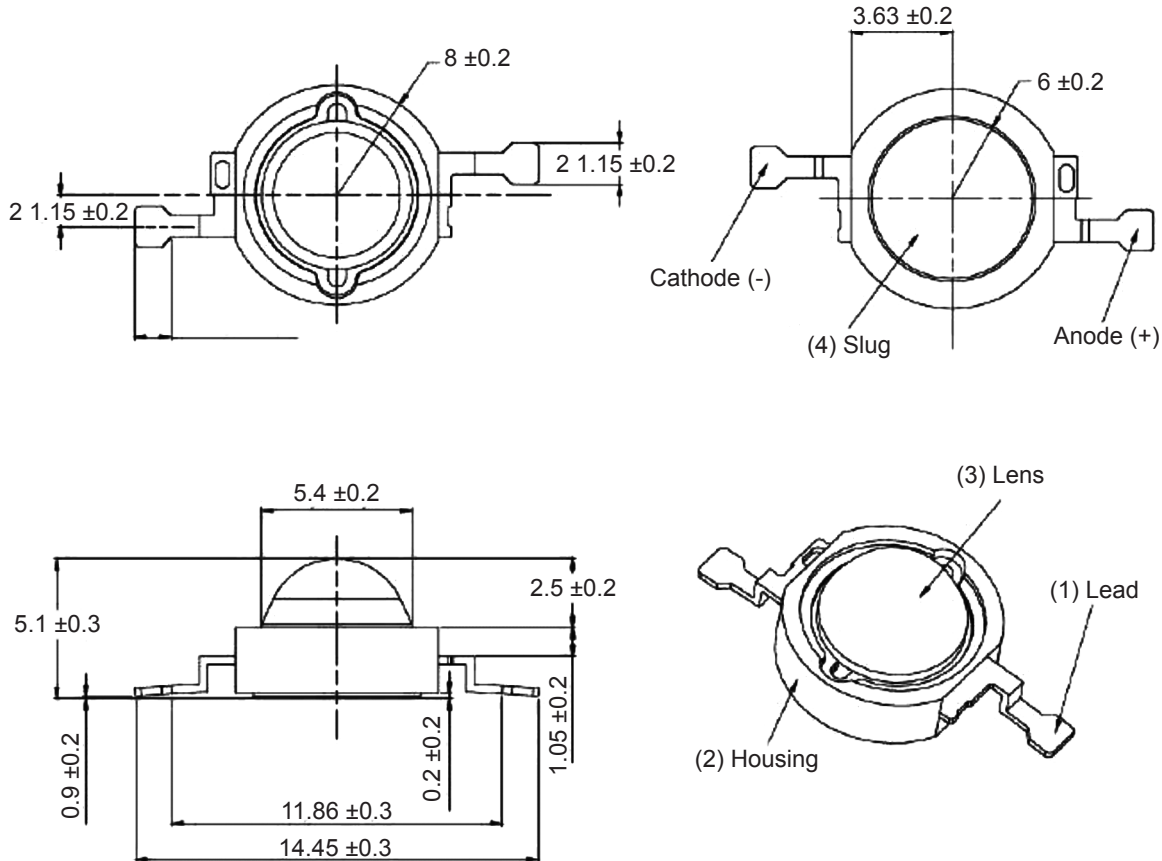


Typical Spatial distribution for Blue

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## Drawing:



Dimensions : Millimetres

Tolerance : ±0.2 mm

## Notes:

The polarity of slug at bottom is anode.

It is important that the slug can't contact aluminium surface, it is strongly recommended that there should coat a uniform electrically isolated heat dissipation film on the surface.

It is strongly recommended that the temperature of lead be not higher than 70°C.

## Part Number Table

Description	Part Number
THEM-CLC Flux Blue LED	THEM-CLBX(460-470)

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