

## Lens Datasheet

Model No: OPLLC0067

LED Source: Oslon SSL 80

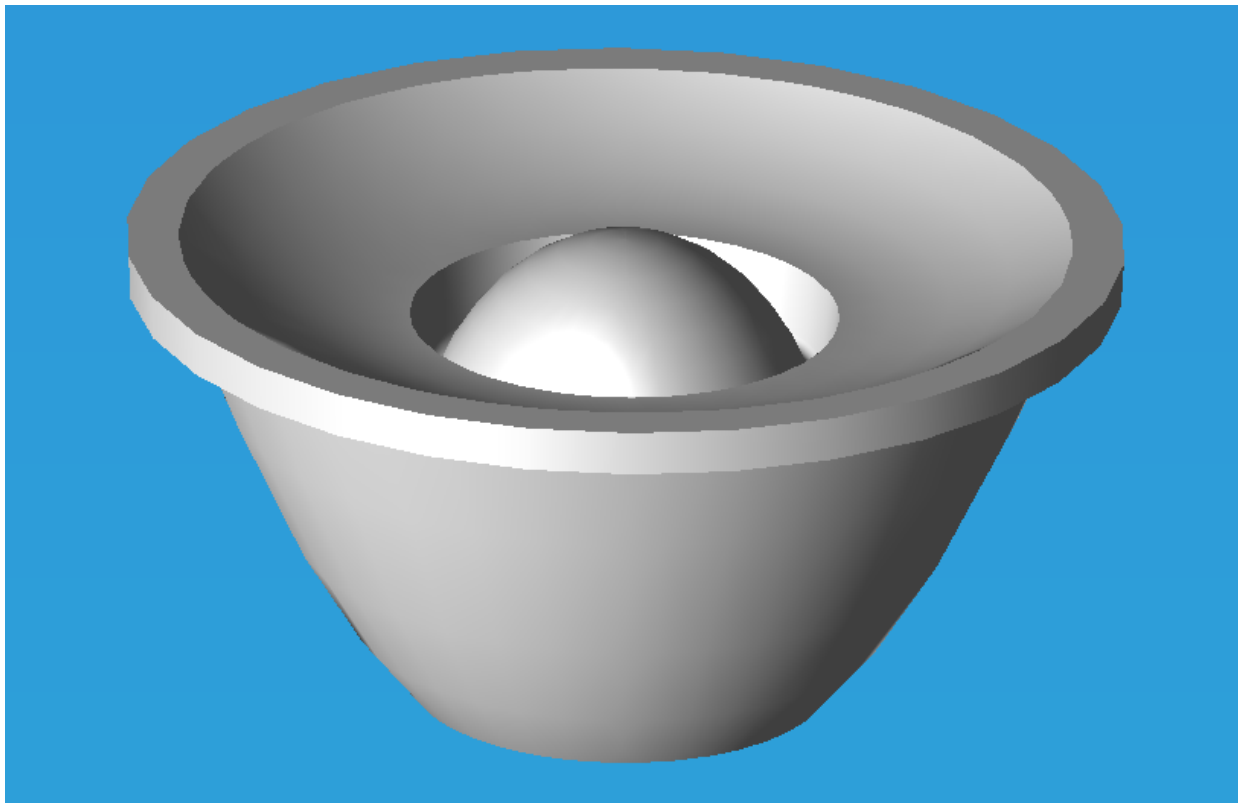
LED Manufacturer: OSRAM

Optics & Allied Engg.Pvt. Ltd.

No. 9Q, 1st Phase, Jigani Link Road,  
Bommasandra Industrial Area,

Bangalore, INDIA

Tel: (+91) 80-4904-4904



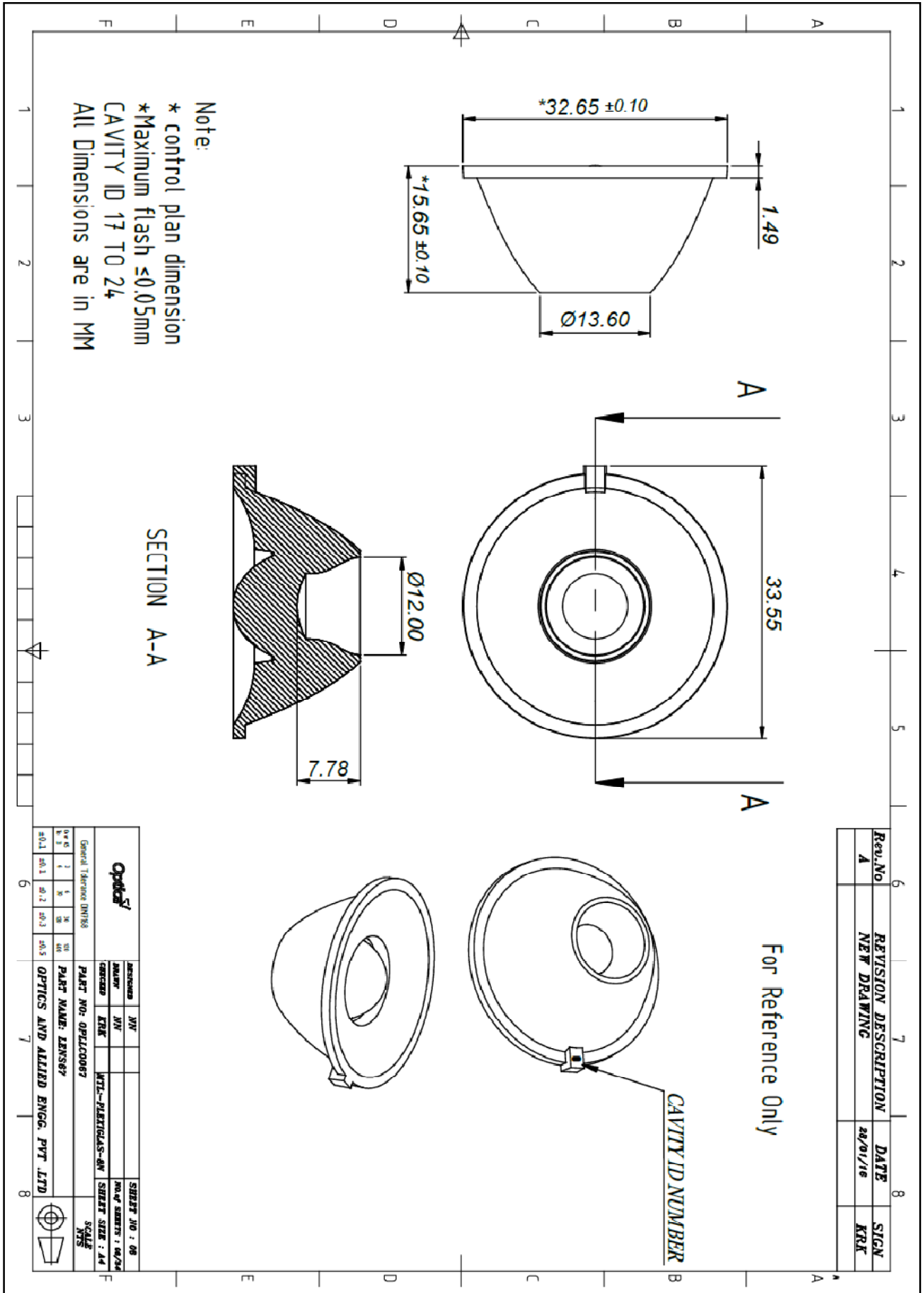
### Features:

- High Efficiency
- Narrow beam output
- Easy to mount

### Lens Details:

S.No.	Parameter	Specification
1.	Lens Material	PMMA
2.	Lens Dimensions	Ø 32.65mm & Height 15.65mm
3.	Operating Temperature (T <sub>opr</sub> )	-40 to +80°C

Lens Drawing



# Lens Datasheet

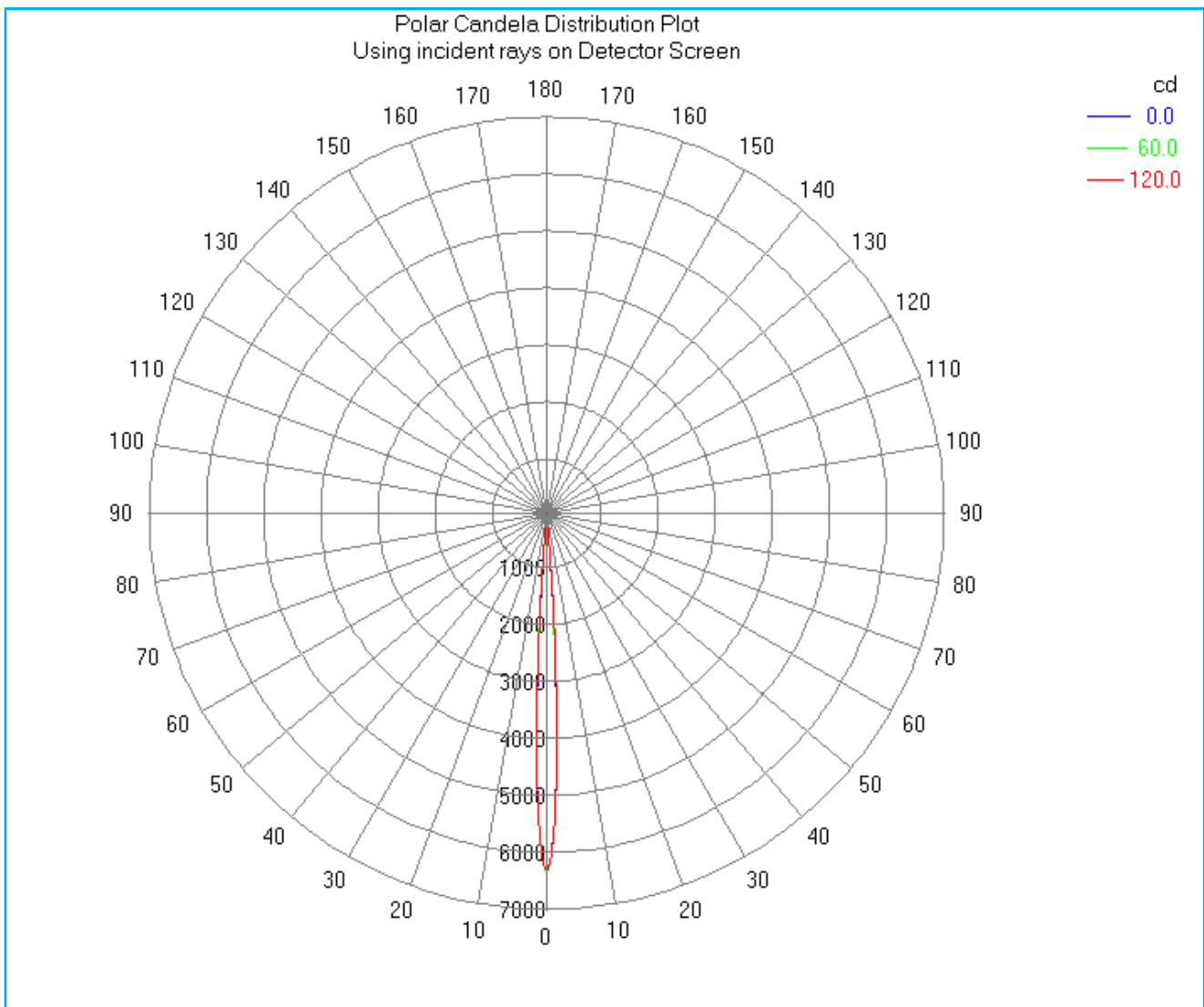
Model No: OPLLC0067

LED Source details:

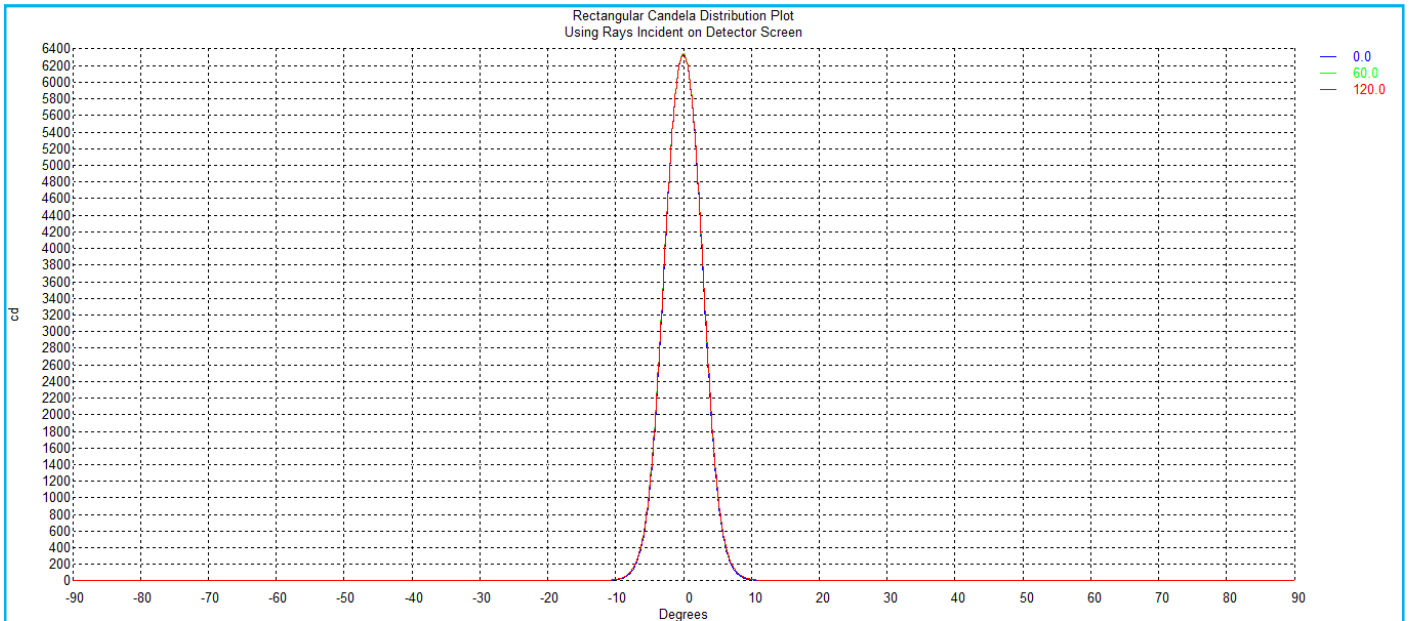
S.No.	Parameter	Specification
1.	LED Source	Oslon SSL 80
2.	LED Manufacturer	OSRAM
3.	LED Operating Current	350 mA
4.	Forward Voltage	2.95V
5.	Average luminous flux	100 lm
6.	LED viewing angle	80°
7.	Detector distance	2.5 Meter
8.	Simulation Tool	TracePro

Note: Simulation carried out by coupling OPLLC0067 lens with OSRAM Oslon SSL 80 LED

## Polar Intensity Distribution

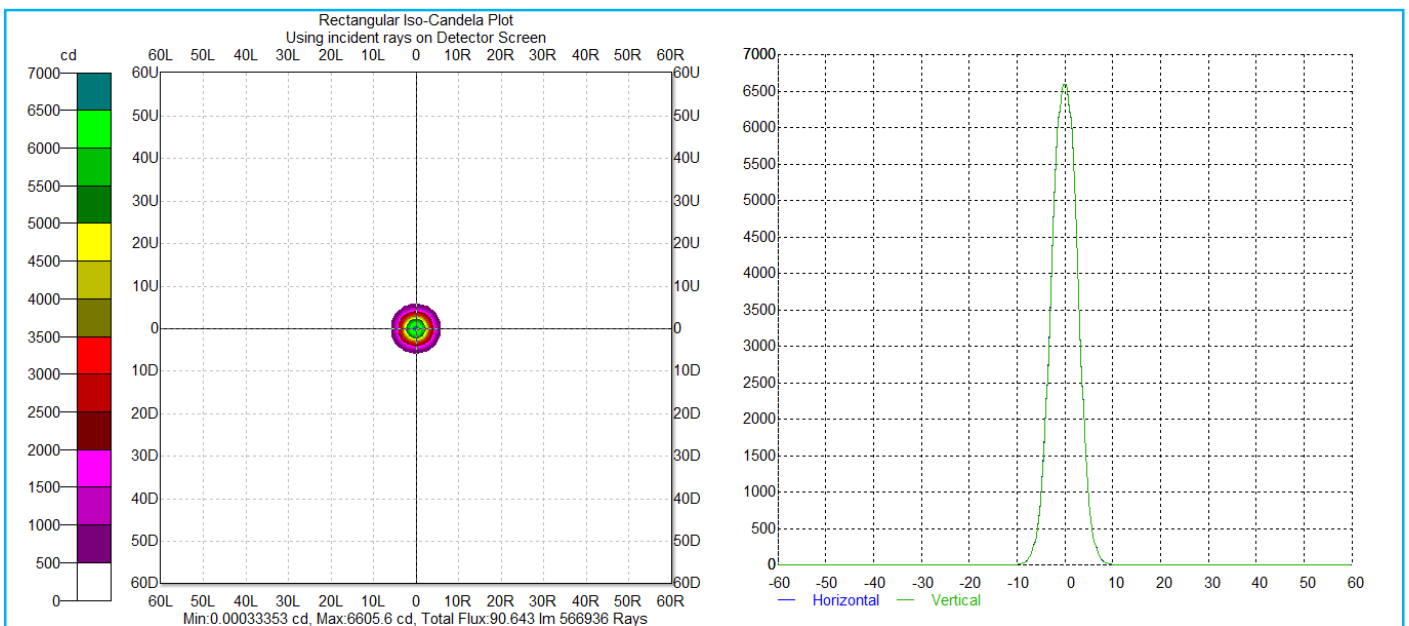


### Rectangular Intensity Distribution



FWHM Angle of the beam is 6.0°  
 FWTM Angle of the beam is 10.9°

### Rectangular Iso-Candela Plot



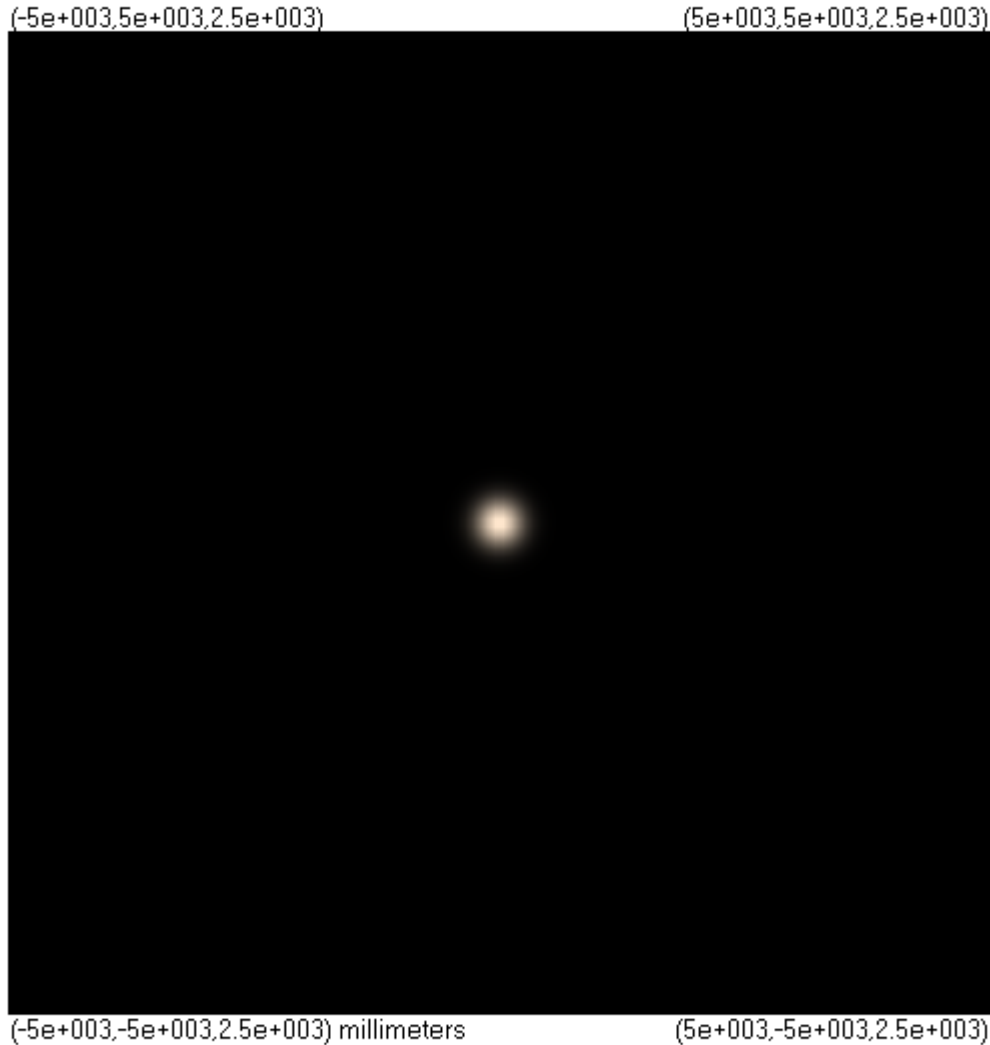
Rectangular Iso-candela plot of the lens with average input flux 100 Lumen

Output flux is 90.643 Lumen

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### True Color Map

Total - True Color Map for Incident Flux  
Detector Screen



True Color Total Flux:90.672 lm 568158 Incident Rays

Note:

FWHM Angle - Full width half maximum (Beam angle at 50% of the maximum Intensity)

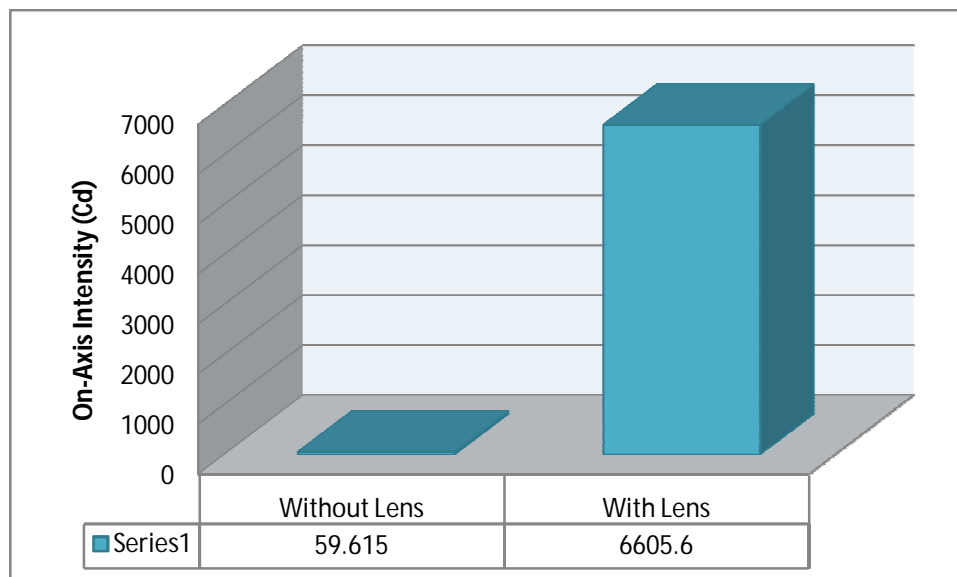
FWTM Angle - Full width tenth maximum (Beam angle at 10% of the maximum Intensity)

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## Lens Characteristics

S.No.	Parameter	Value	Units
1.	FWHM Angle of the beam	6.0	Degrees
2.	FWTM Angle of the beam	10.9	Degrees
3.	Average Input Flux	100	Lumen
4.	Output Flux	90.643	Lumen
5.	On-axis Intensity of the LED without lens	59.615	Candela (Cd)
6.	On-axis Intensity of the LED with lens	6605.6	Candela (Cd)
7.	Efficiency of the lens	90.6	%
8.	Candela per lumen	66.06	Cd/lm



Comparison of On-Axis Intensity of the LED with average emitted flux 100 Lumen with and without Optica OPLLC0067 Lens

**Note:**

- Don't handle the lens without wearing the gloves, finger prints may reduce the lens efficiency
- Any flow lines on the external surface of the lens are acceptable if the optical characteristics are not affected