

## Lens Datasheet

Model No: OPLLC0067

LED Source: XQ-E HI

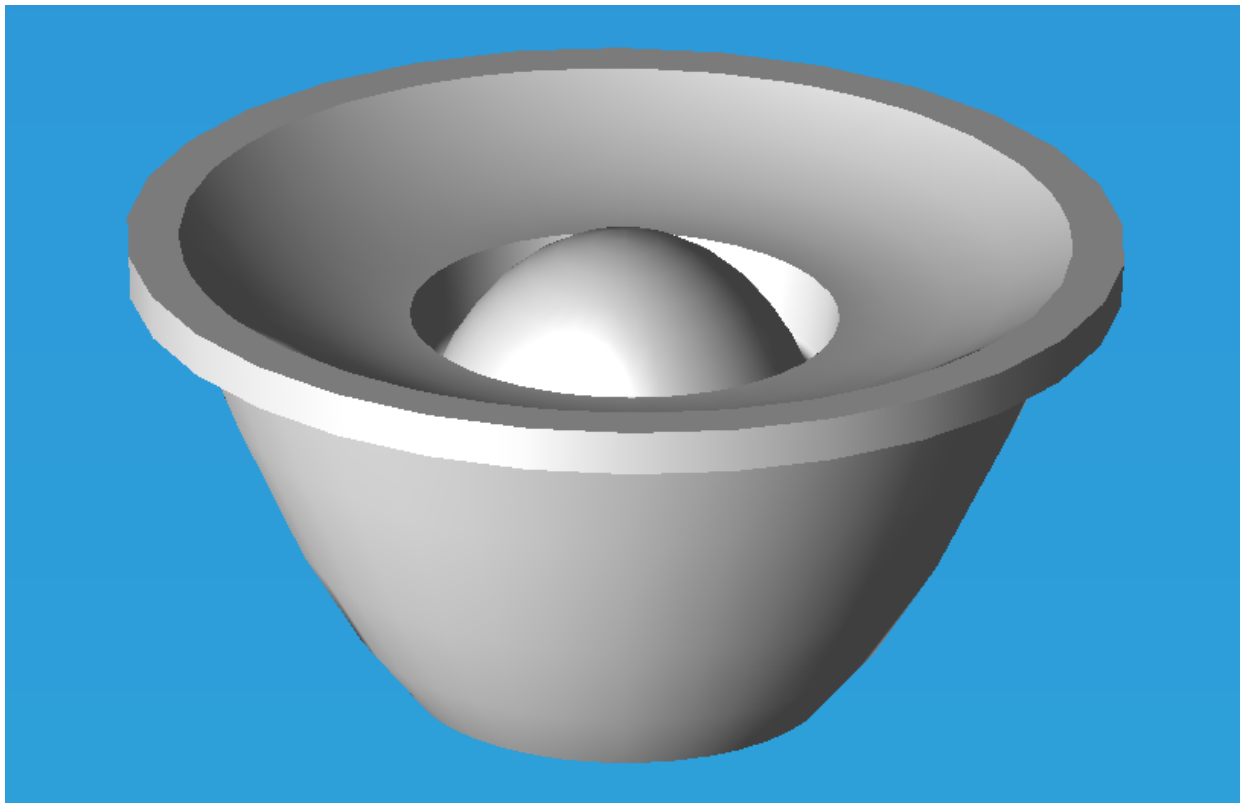
LED Manufacturer: CREE

Optics & Allied Engg.Pvt. Ltd.

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

Bangalore, INDIA

Tel: (+91) 80-4904-4904



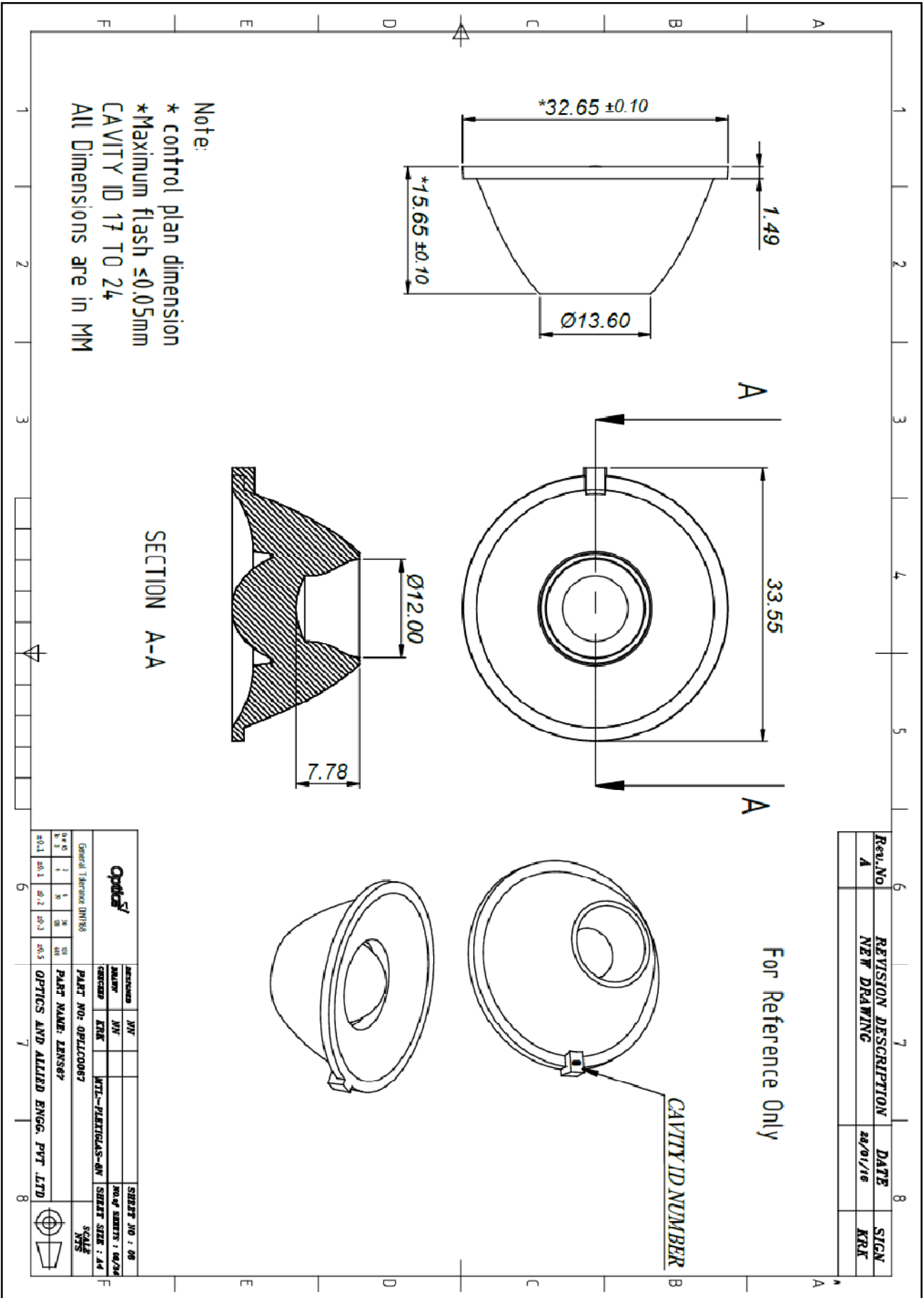
### Features:

- 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 ( $T_{opr}$ )	-40 to +80°C

Lens Drawing



# Lens Datasheet

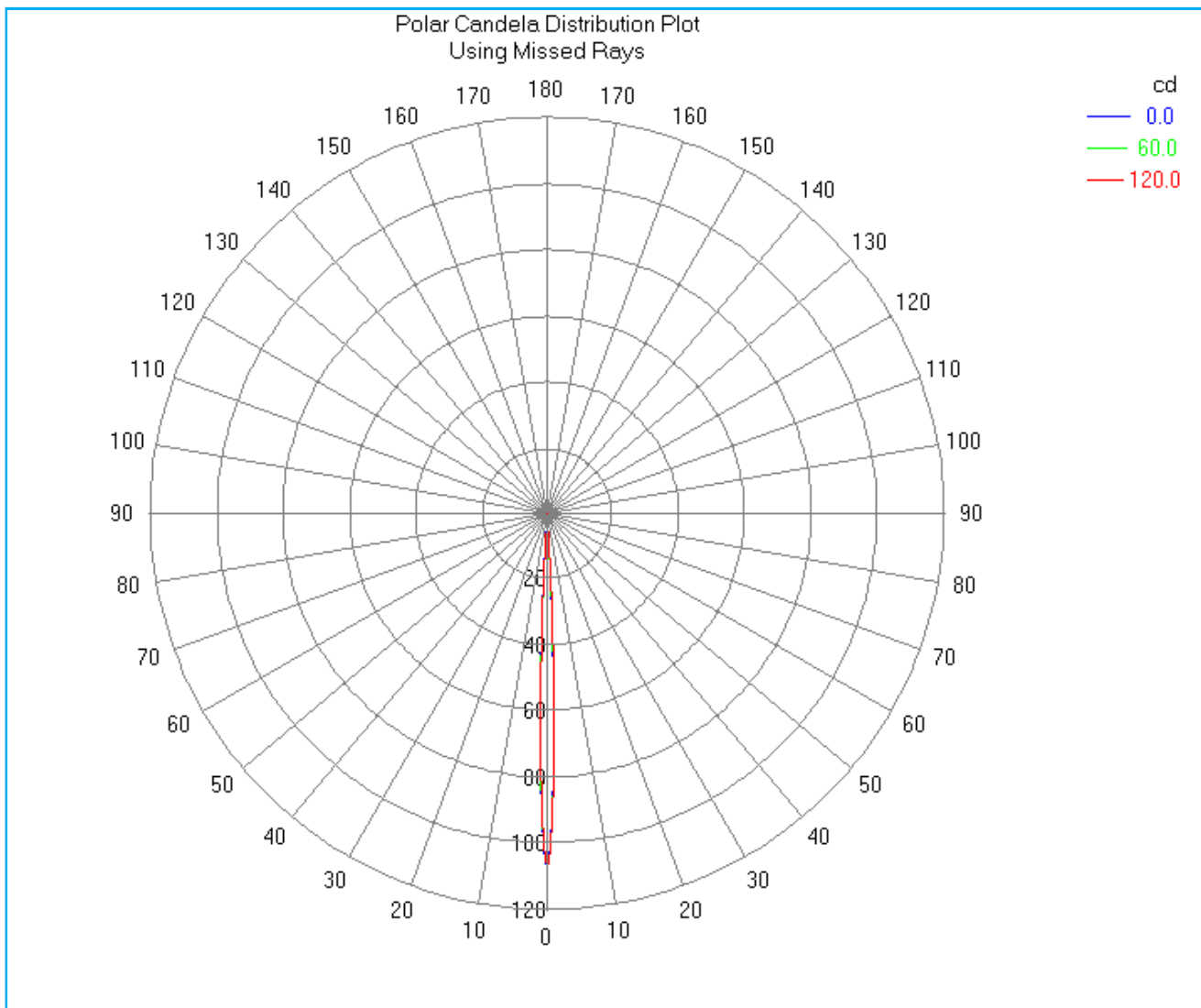
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LED Source details:

S.No.	Parameter	Specification
1.	LED Source	XQ-E HI
2.	LED Manufacturer	CREE
3.	LED Operating Current	350 mA
4.	Forward Voltage	2.9 V
5.	LED output flux	Normalized to 1 lm
6.	LED viewing angle	120°
7.	Detector distance	2.5 Meter
8.	Simulation Tool	TracePro

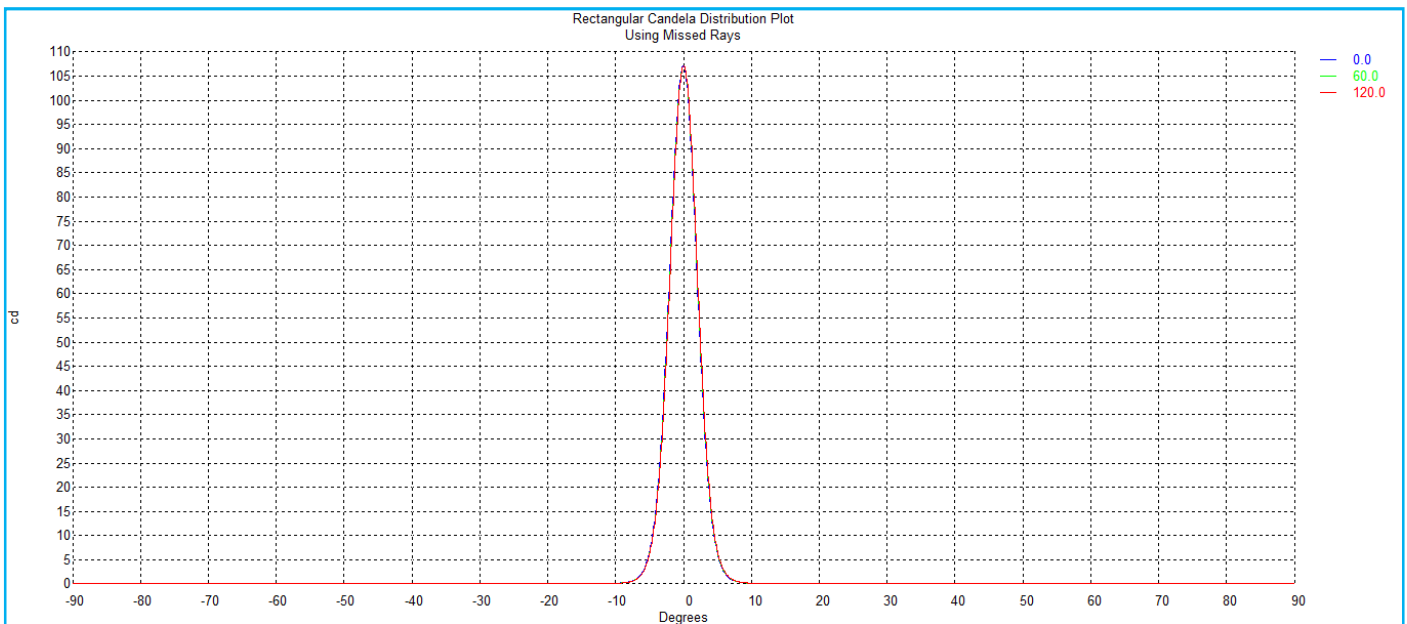
Note: Simulation carried out by coupling OPLLC0067 lens with CREE XQ-E HI LED

## Polar Intensity Distribution



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### Rectangular Intensity Distribution



FWHM Angle of the beam is 4.3°

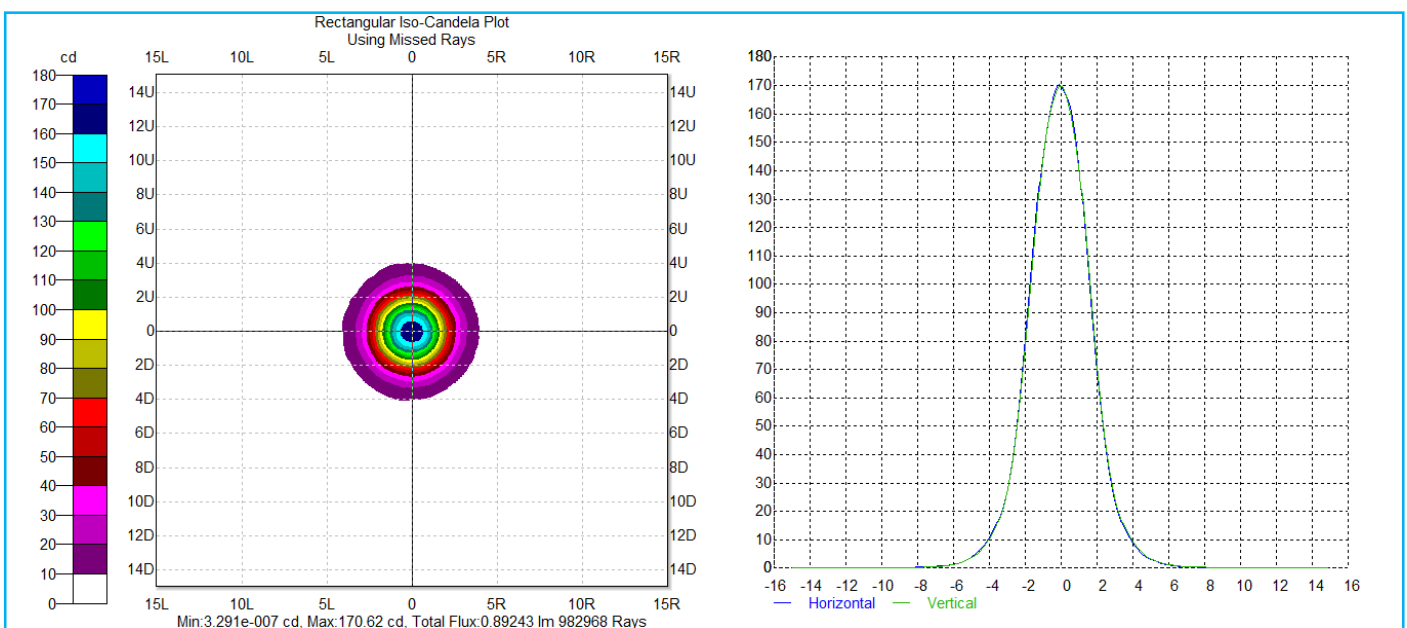
FWTM Angle of the beam is 8.3°

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)

### Rectangular Iso-Candela Plot



Rectangular Iso-candela plot of the lens with normalized input flux of 1 Lumen

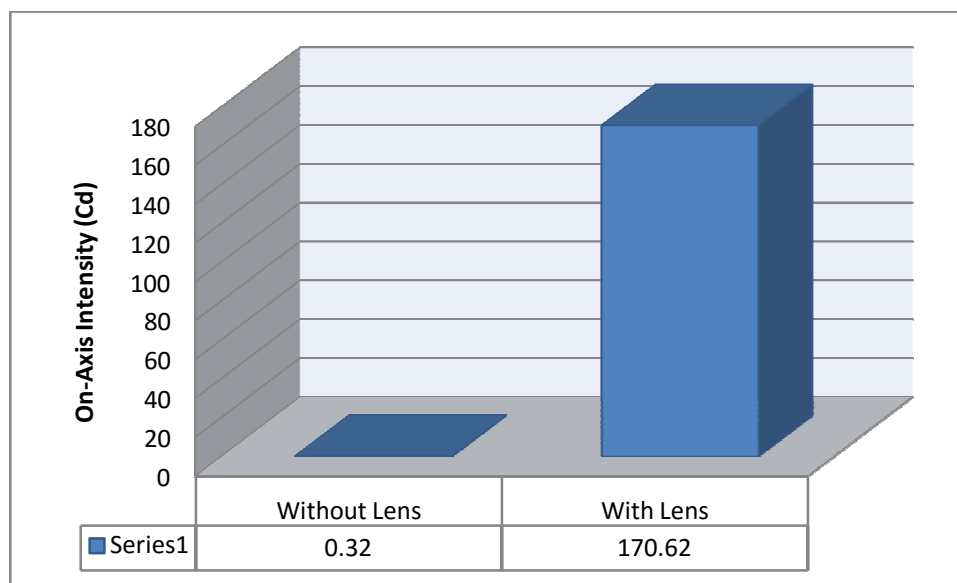
Output flux is 0.8924 Lumen

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## Lens Characteristics

S.No.	Parameter	Value	Units
1.	FWHM Angle of the beam	4.3	Degrees
2.	FWTM Angle of the beam	8.3	Degrees
3.	Efficiency of the lens	89.2	%
4.	Candela per lumen	170.62	Cd/lm



Comparison of On-Axis Intensity of the LED with normalized emitted flux 1 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