

## Lens Datasheet

Model No: OPLLC0067

LED Source: NF2W757GRT

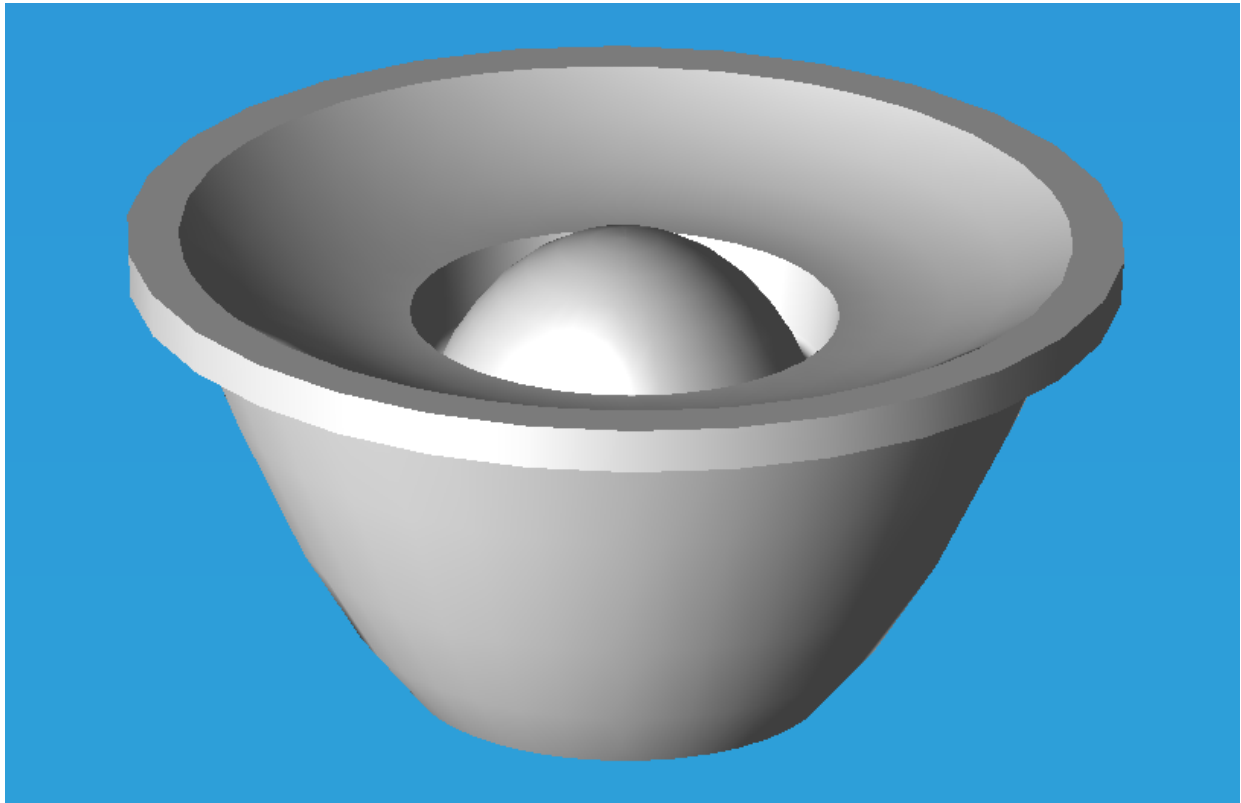
LED Manufacturer: NICHIA

Optics & Allied Engg.Pvt. Ltd.

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

Bangalore, INDIA

Tel: (+91) 80-4904-4904



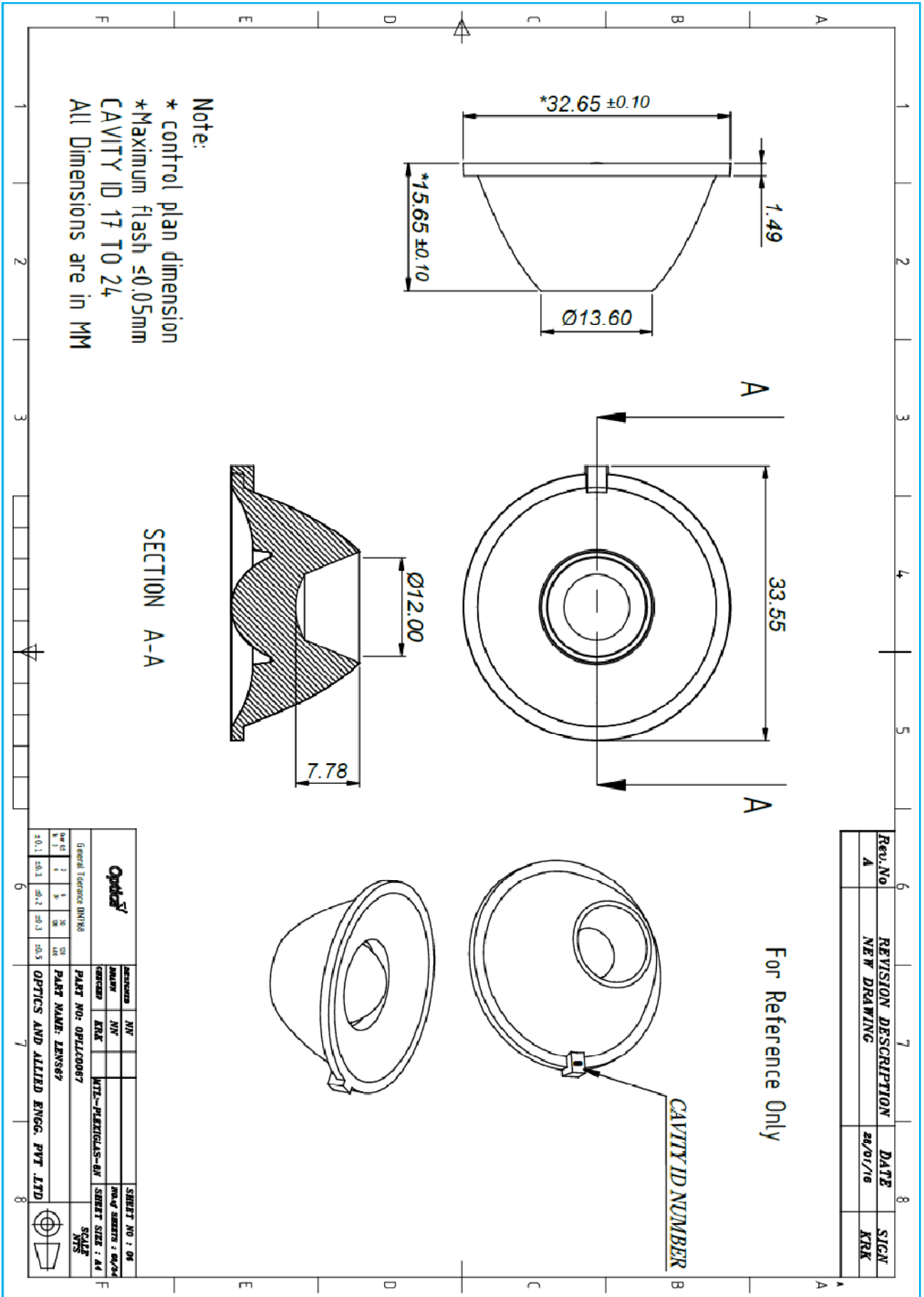
### Features:

- 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

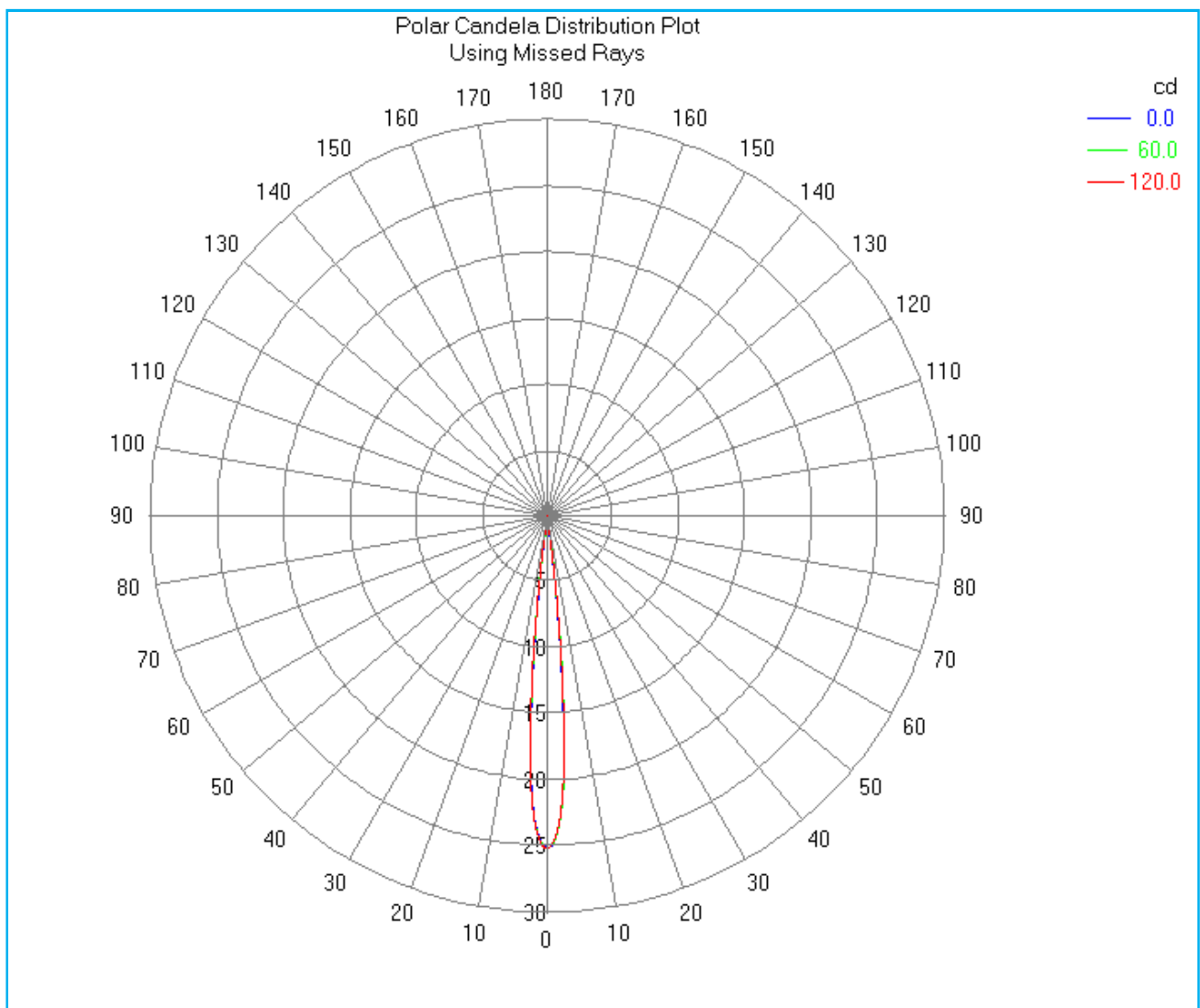
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LED Source details:

S.No.	Parameter	Specification
1.	LED Source	NF2W757GRT
2.	LED Manufacturer	NICHIA
3.	LED Operating Current	150 mA
4.	Forward Voltage	6.3 V
5.	LED output flux	Normalized to 1 lm
6.	LED viewing angle	120°
7.	Detector distance	2.5 Meter
8.	Simulation Tool	TracePro

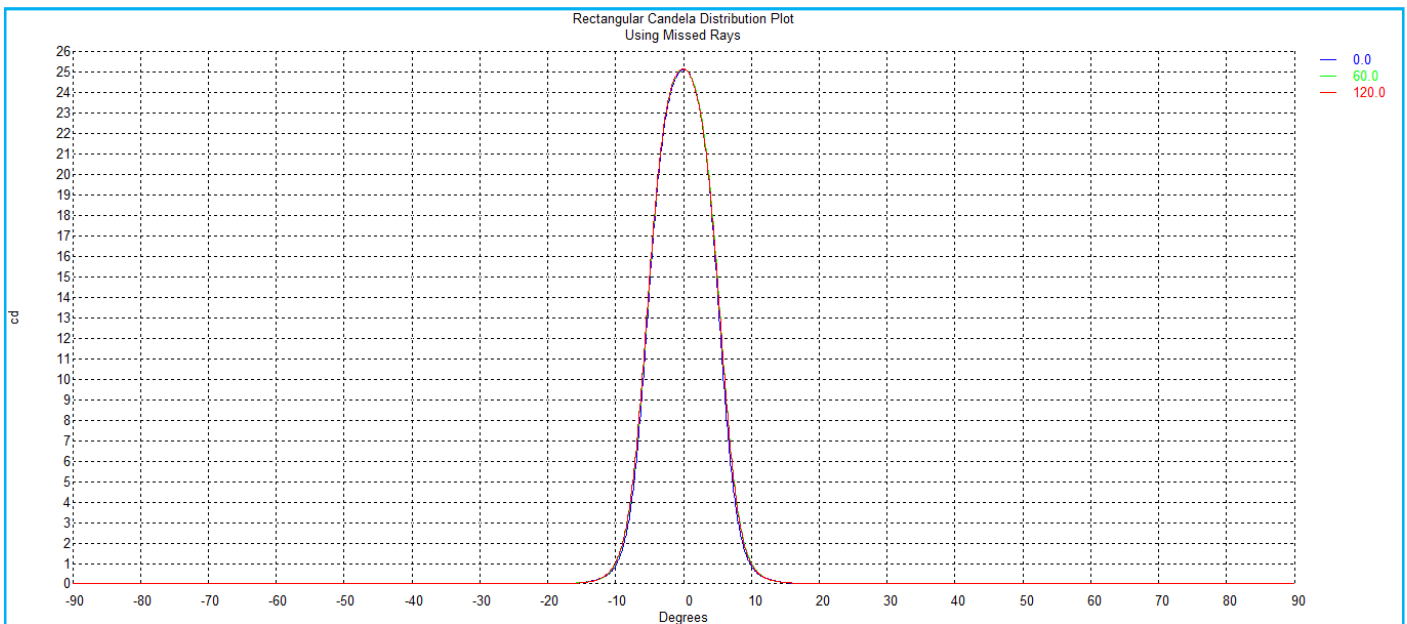
Note: Simulation carried out by coupling OPLLC0067 lens with Nichia NF2W757GRT LED

## Polar Intensity Distribution



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### Rectangular Intensity Distribution



FWHM Angle of the beam is 10.0°

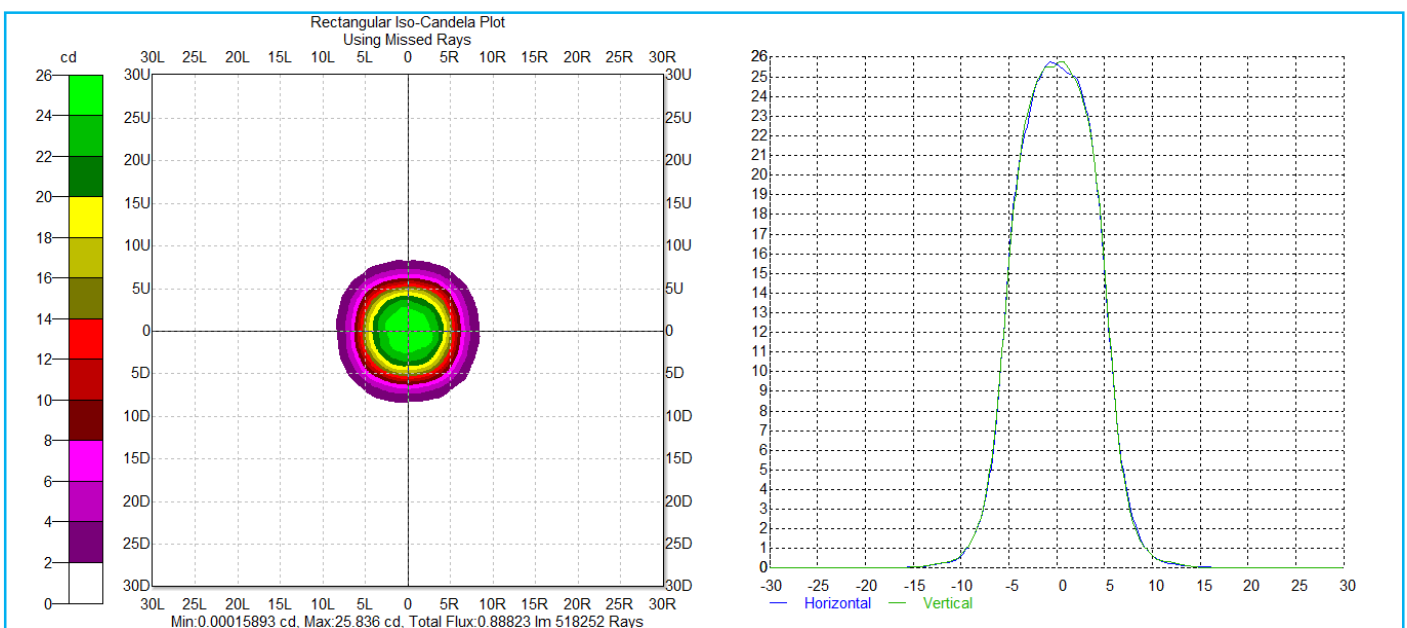
FWTM Angle of the beam is 16.3°

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 0.888 Lumen

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### Lens Characteristics

S.No.	Parameter	Value	Units
1.	FWHM Angle of the beam	10.0	Degrees
2.	FWTM Angle of the beam	16.3	Degrees
3.	Efficiency of the lens	89.0	%
4.	Candela per lumen	25.83	Cd/lm

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