

Lens Datasheet

Model No: OPLLC0067

LED Source: NVSW219B

LED Manufacturer: NICHIA

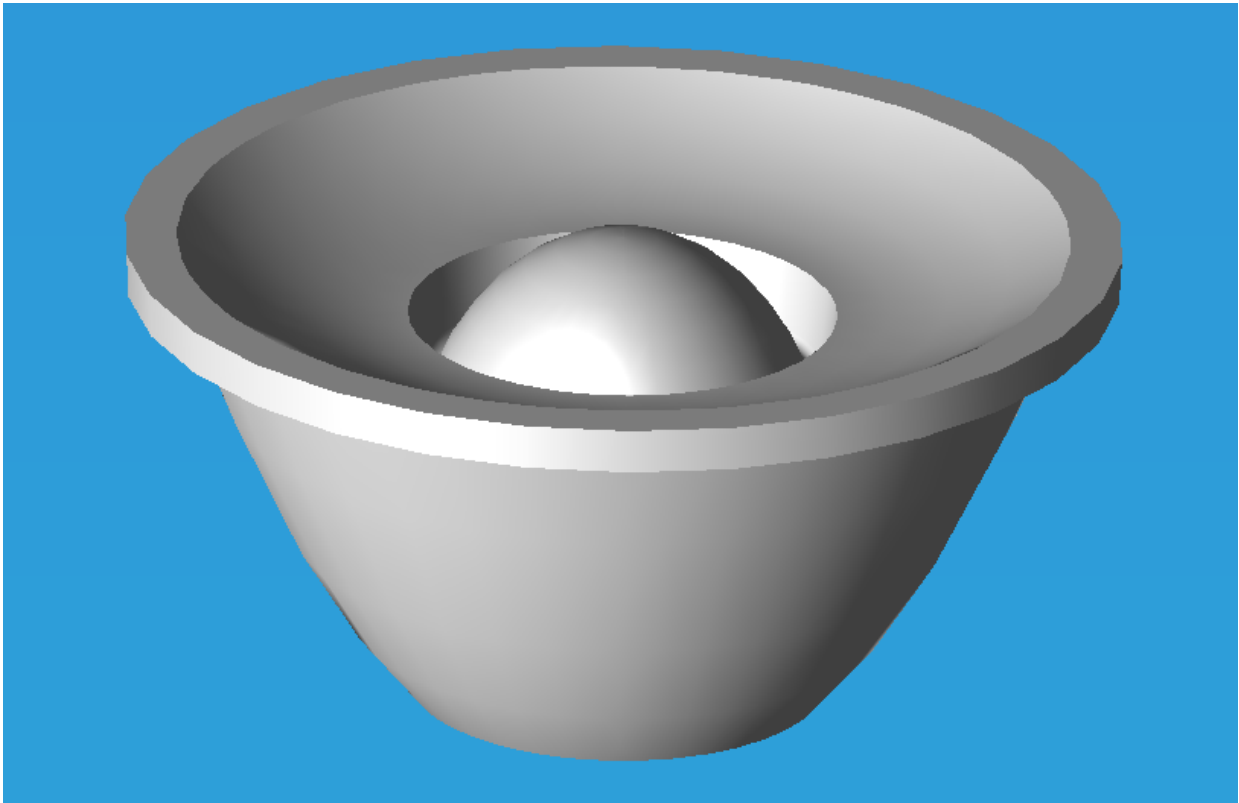
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Tel: (+91) 80-4904-4904



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

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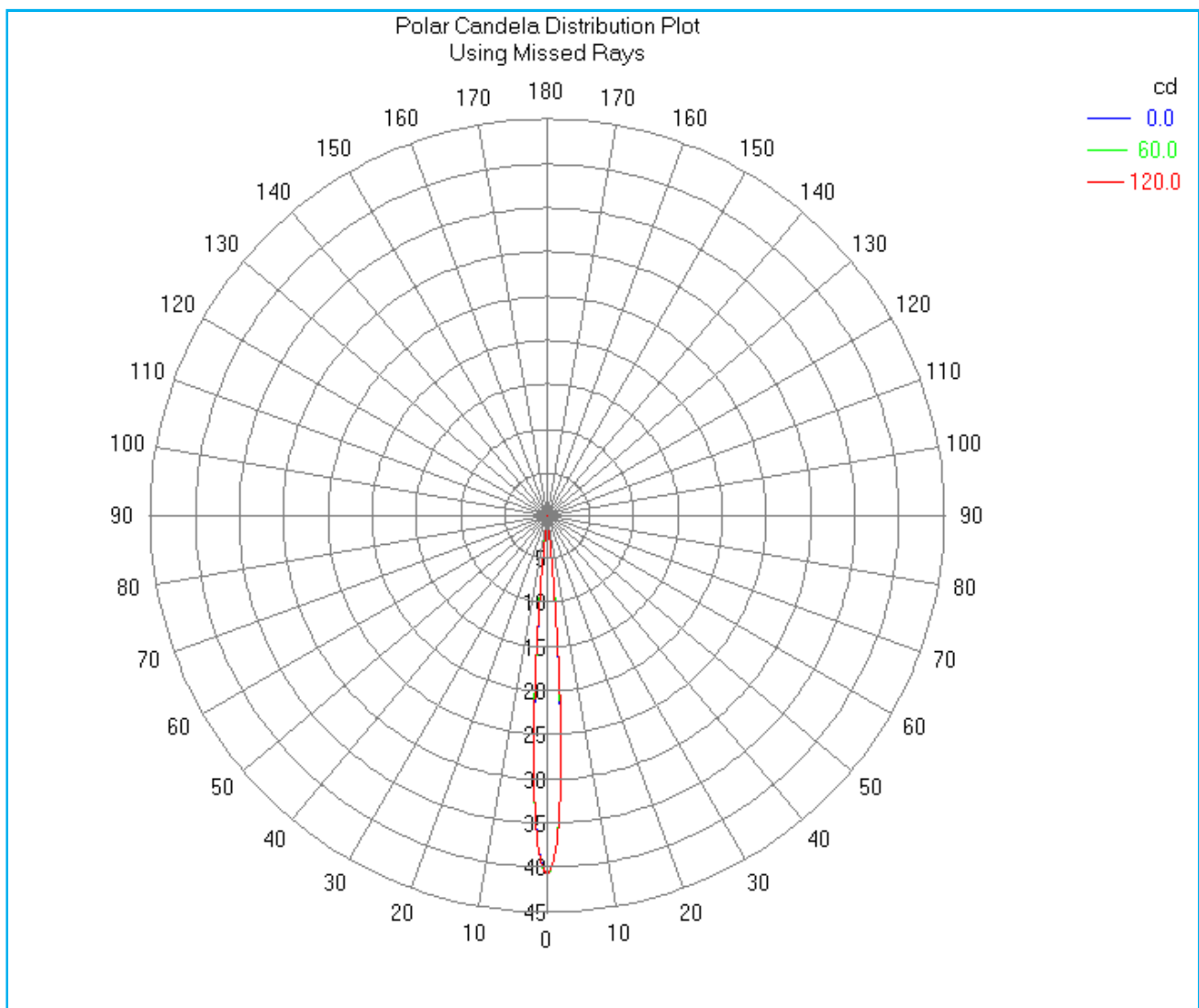
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LED Source details:

S.No.	Parameter	Specification
1.	LED Source	NVSW219B
2.	LED Manufacturer	NICHIA
3.	LED Operating Current	700 mA
4.	Forward Voltage	2.98 V
5.	LED output flux	Normalized to 1 lm
6.	LED viewing angle	135°
7.	Detector distance	2.5 Meter
8.	Simulation Tool	TracePro

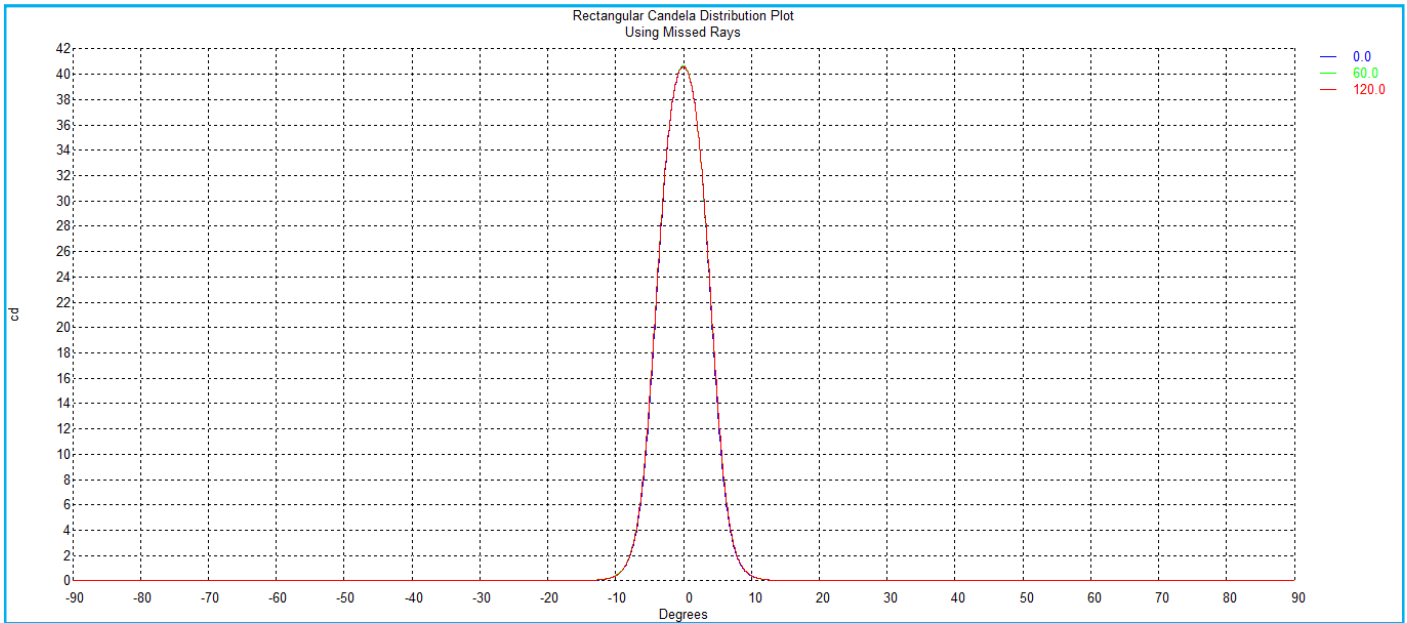
Note: Simulation carried out by coupling OPLLC0067 lens with Nichia NVSW219B LED

Polar Intensity Distribution



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Rectangular Intensity Distribution



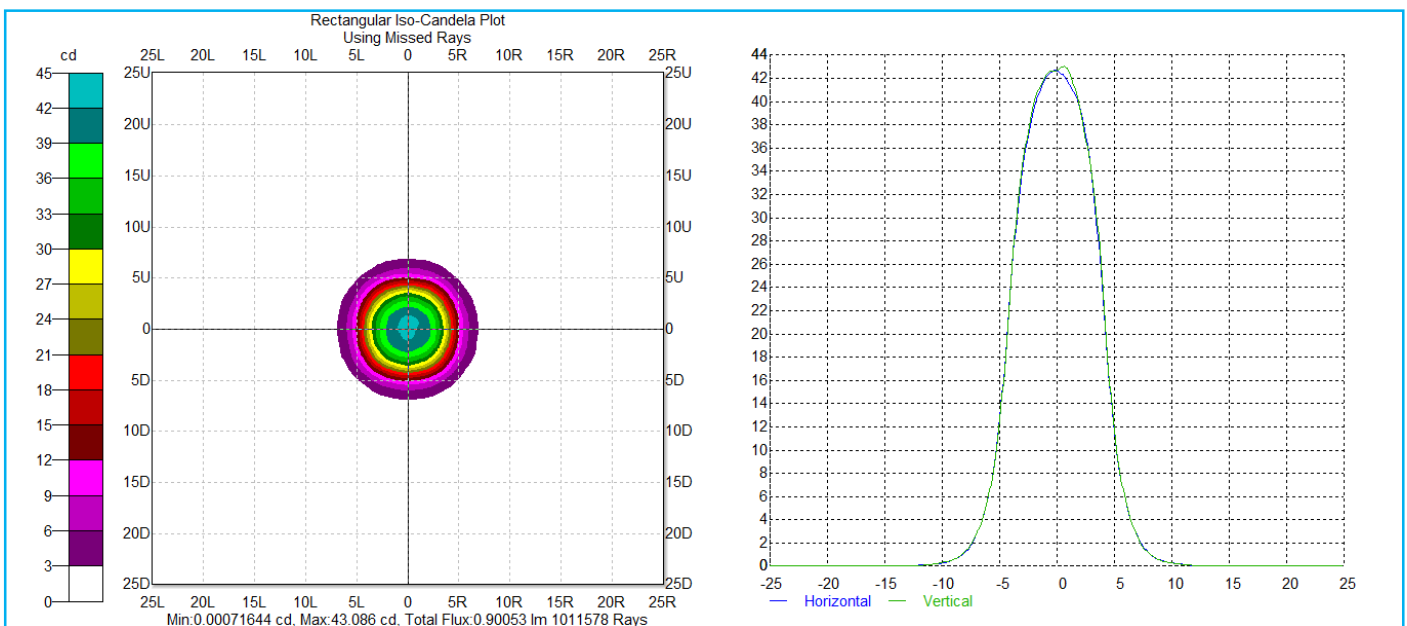
FWHM Angle of the beam is 8.0°
FWTM Angle of the beam is 13.5°

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 0.9 Lumen

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Lens Characteristics

S.No.	Parameter	Value	Units
1.	FWHM Angle of the beam	8.0	Degrees
2.	FWTM Angle of the beam	13.5	Degrees
3.	Efficiency of the lens	90.0	%
4.	Candela per lumen	43.64	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