

## Lens Datasheet

Model No: OPLLF0085

LED Source: Z5-M2

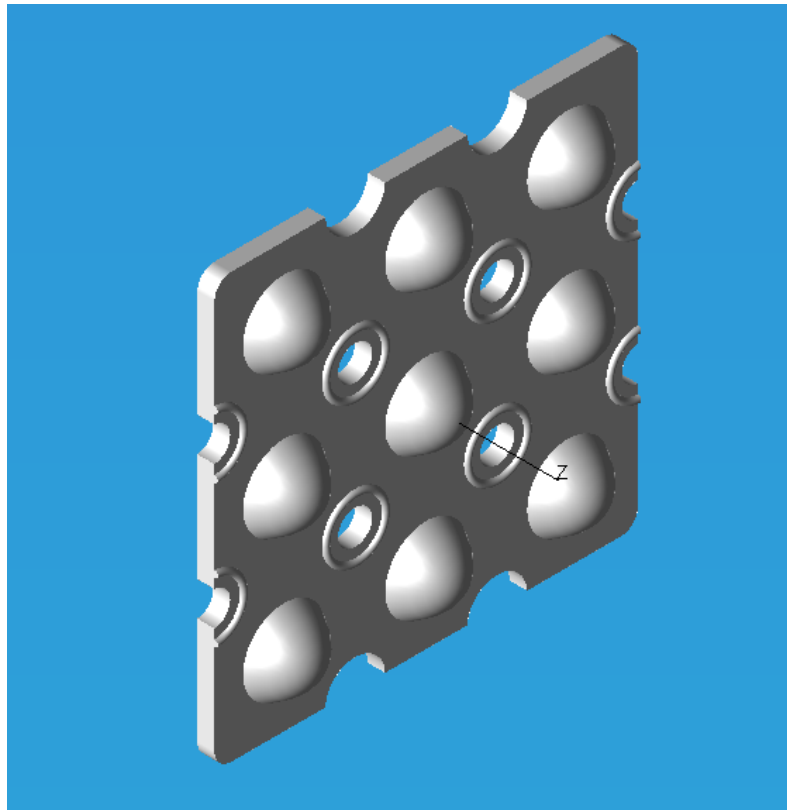
LED Manufacturer: SEOUL

Optics & Allied Engg. Pvt. Ltd.

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

Bangalore, INDIA

Tel: (+91) 80-4904-4904



### Features:

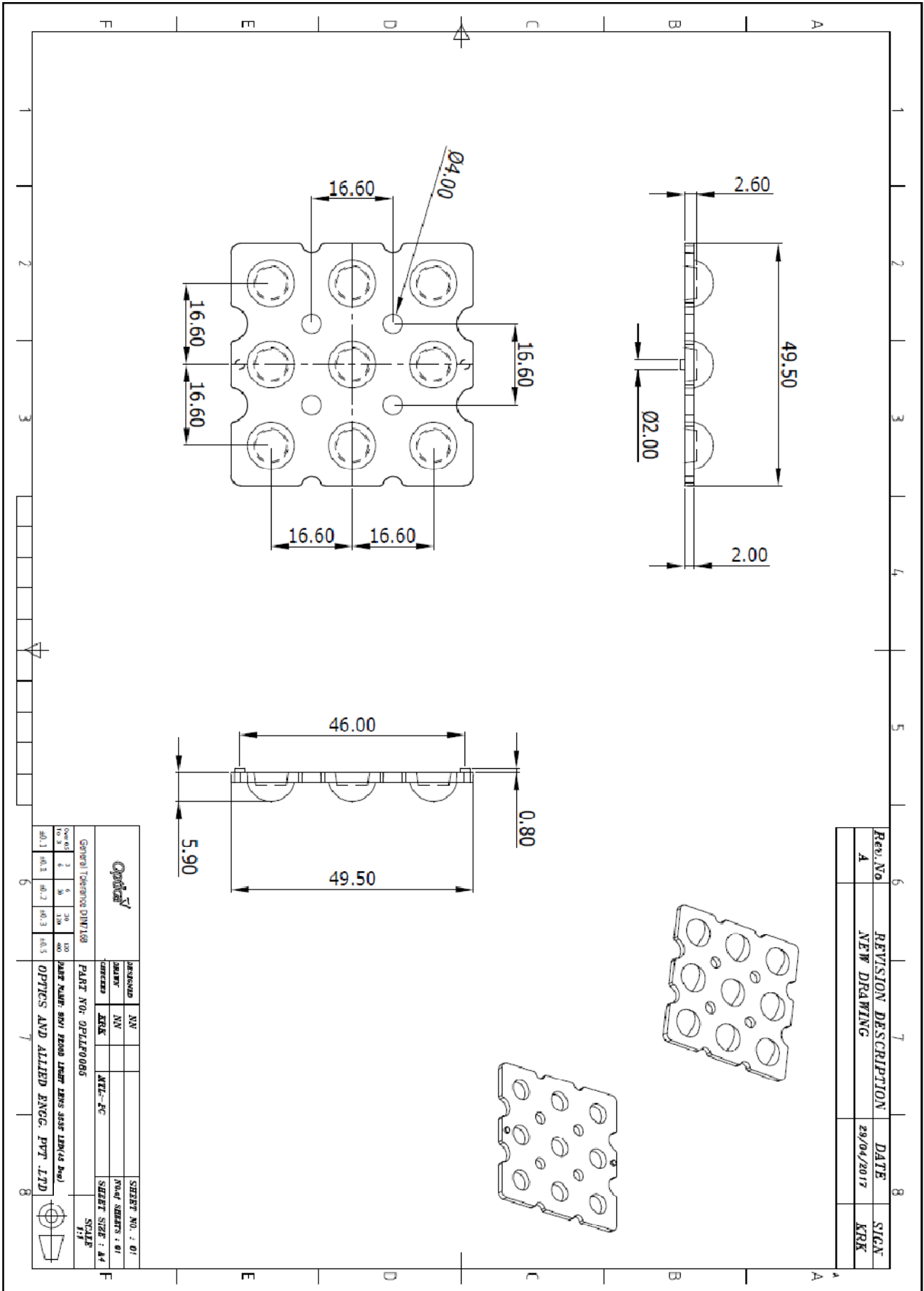
- High Efficiency
- Easy to mount
- Compact in size
- Wide beam output

### Lens Details:

S.No.	Parameter	Specification
1.	Lens Material	Polycarbonate
2.	Lens Dimensions (L x W x H)	49.50 x 49.50 x 5.90mm
3.	Operating Temperature (T <sub>opr</sub> )	-40 to +125°C
4.	Lens Application	Flood lights & High bay lights

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Lens Drawing



Rev. No	REVISION DESCRIPTION	DATE	SIGN
A	NEW DRAWING	29/04/2017	KRK

		APPROVED: NV DRAWN: NV CHECKED: KRK DATE: EC	SHEET NO.: 01 NO. OF SHEETS: 01 SHEET SIZE: A4
General Tolerances DIN/ISO		PART NO.: OPLLF0085	SCALE: 1:1
ISO 279 f0.1 to 0.3 h0.1 to 0.3	ISO 1450 f0.2 to 0.3 h0.3 to 0.3	PART NAME: 9MM BEAD LENS ARRAY LENS (NO)	OPTICS AND ALLIED ENGC. PVT. LTD.

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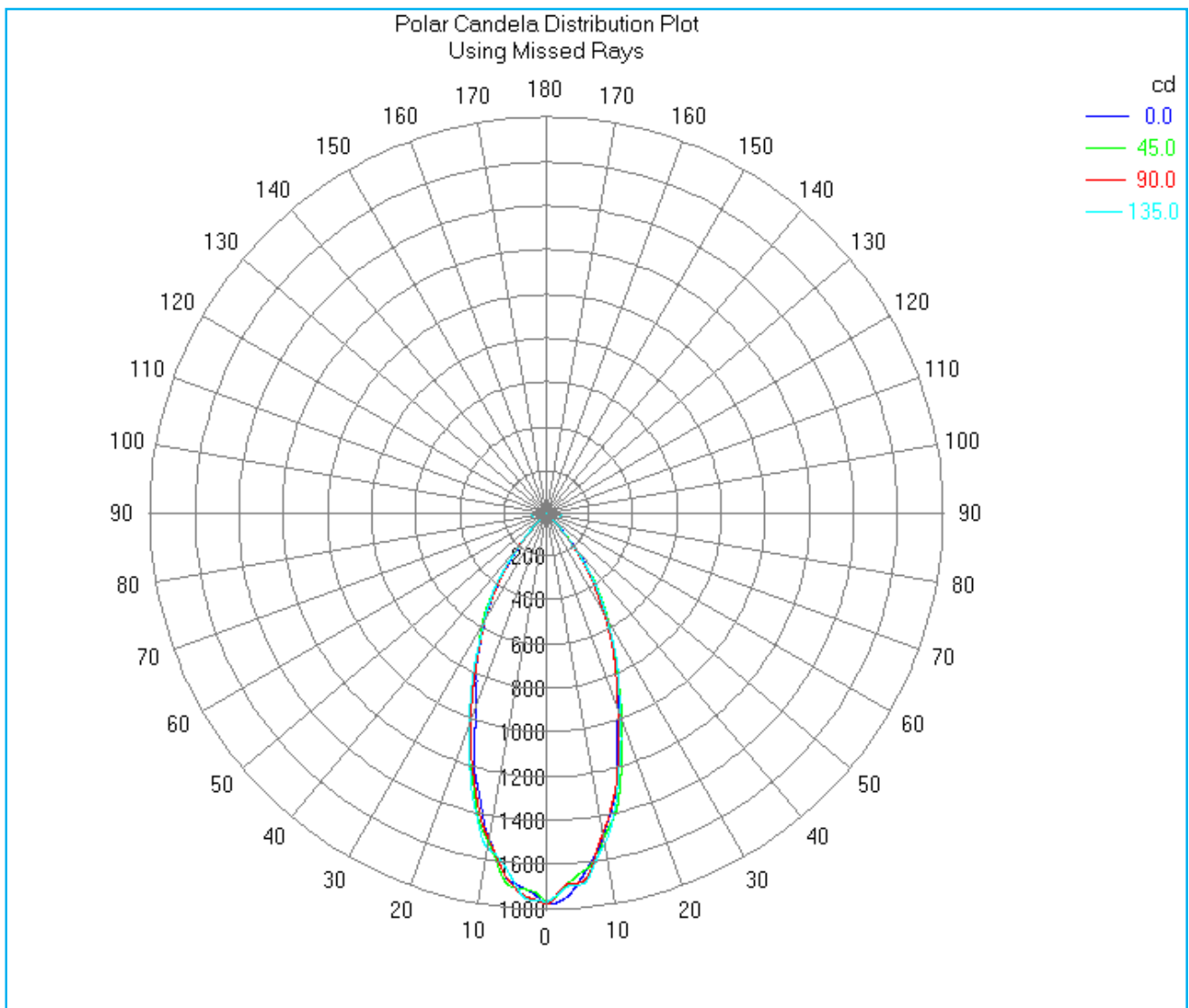
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LED Source details

S.No.	Parameter	Specification
1.	Lamp	(3 x 3 ) SEOUL Z5-M2 LEDs
2.	LED Manufacturer	SEOUL
3.	LED Forward Current	350mA
4.	LED Forward Voltage	2.95V
5.	Lamp Average Luminous Flux	1417.059 lm
6.	LED Viewing Angle	118°
7.	Simulation Tool	TracePro

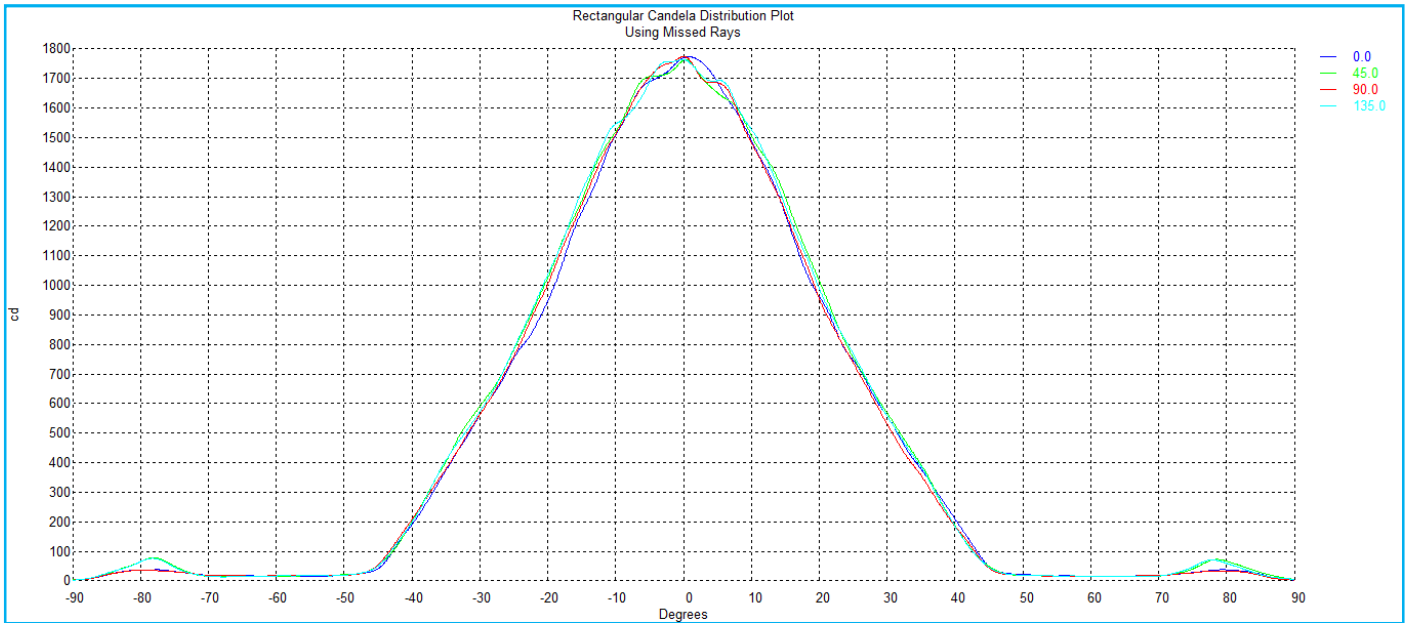
Note: Simulation carried out by coupling OPLLF0085 lens with (3 x 3) SEOUL Z5-M2 LEDs

## Polar Intensity Distribution



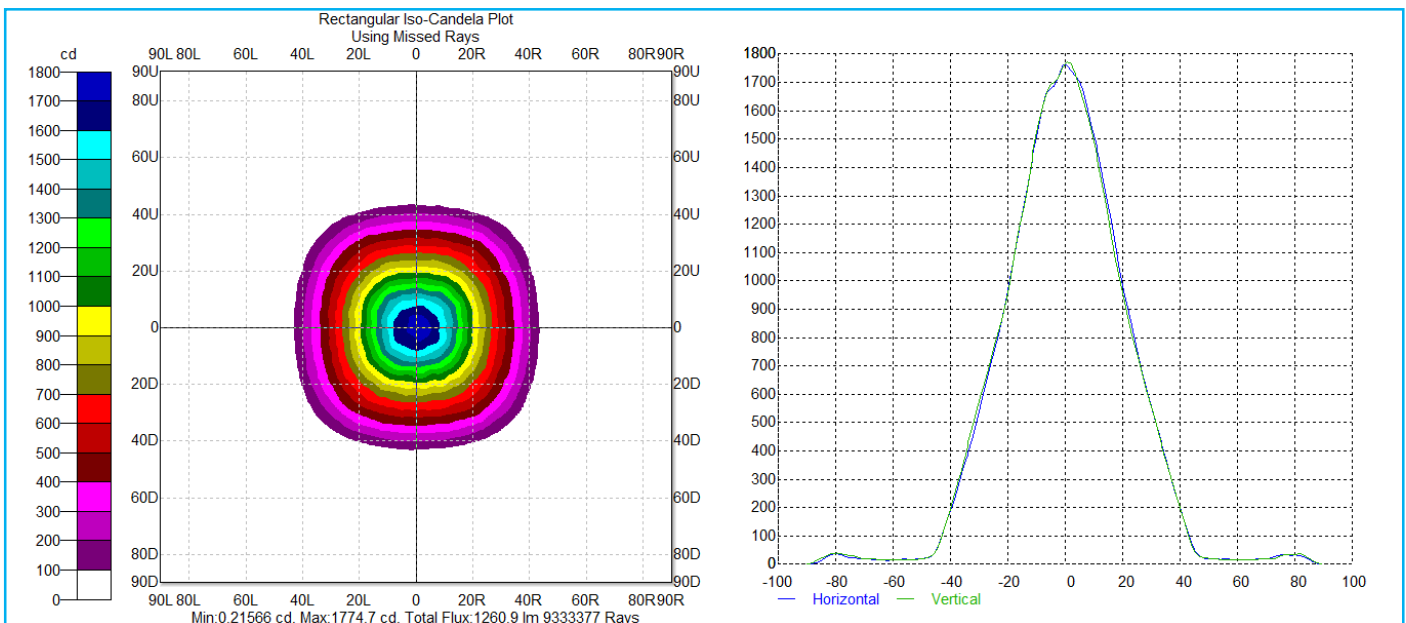
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### Rectangular Intensity Distribution



FWHM Angle of the beam is 45.40°  
FWTM Angle of the beam is 82.00°

### Rectangular Iso-Candela Plot



Rectangular Iso-candela plot of the lens with average input flux 1417.059 Lumen  
Output flux is 1260.9 Lumen

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**Lens Characteristics**

S.No.	Parameter	Value	Units
1.	FWHM Angle of the beam	45.40	Degrees
2.	FWTM Angle of the beam	82.00	Degrees
3.	Average Input Flux	1417.059	Lumen
4.	Output Flux	1260.90	Lumen
5.	Efficiency of the lens	89.00	%
6.	Candela per lumen	1.25	Cd/lm

**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)

**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