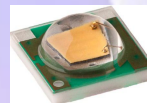




DATA SHEET

Lens Part No : OPLLC0011

LED: CREE XLAMP XP-E





Contents

1. Lens Details, Usage & Maintenance
2. LED Source Details
3. Simulation Tool Details
4. Plots and Results
5. Lens Drawing And Package Specification
6. Contact Details



Lens Details, Usage & Maintenance

SL.No	Parameter	Specification
1.	Lens Material	PMMA
2.	Lens Dimensions	Ø 19.40 mm & Height 13.50 mm
3.	Operating Temperature (T_{Opt})	-40 to +80° C
4.	Lighting Application	Flood Light and Bay Light

1. If necessary, clean Lenses with mild soap, water and soft cloth.
2. Never use any commercial cleaning solvents on Lenses, like alcohol.
3. Please handle or install Lenses with wearing gloves, skin oil may damage Lens or its Optical Characteristic.

Note: Simulation carried out by coupling single Lens with CREE XLAMP XP-E LED.

LED Source Details

SL.No	Parameter	Specification
1.	Lamp	XLAMP XP-E
2.	LED Manufacture	CREE
3.	LED Forward Current	350 mA
4.	LED Forward Voltage	3.05 V
5.	LED Viewing Angle	115 ⁰
6.	Number of Sources	1
7.	Simulation Tool	Trace-Pro

Simulation Tool : Trace-Pro

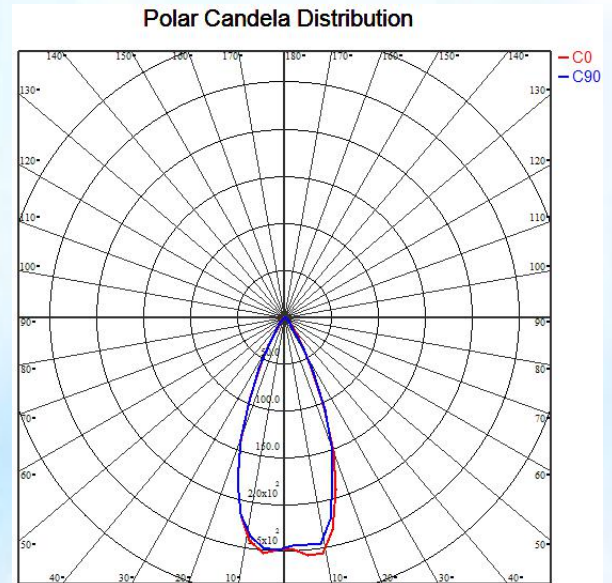
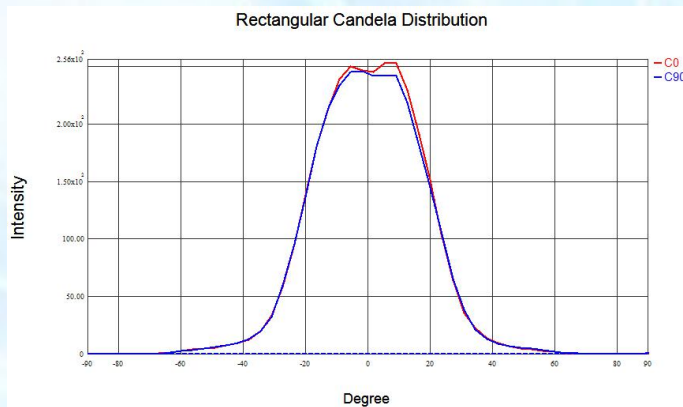
Trace-Pro is Award-Winning Opto-Mechanical software developed by ‘Lamda Research Corporation’USA, under SBIR grant from NASA.

It combines design, ray tracing, analysis, optimization methods to solve a wide variety of new problems in illumination design.

It provides advanced tools for designing medical devices, illumination, display back lights, light pipes, automotive lighting and many other applications.

Plots and Results

Intensity Distribution Plots:



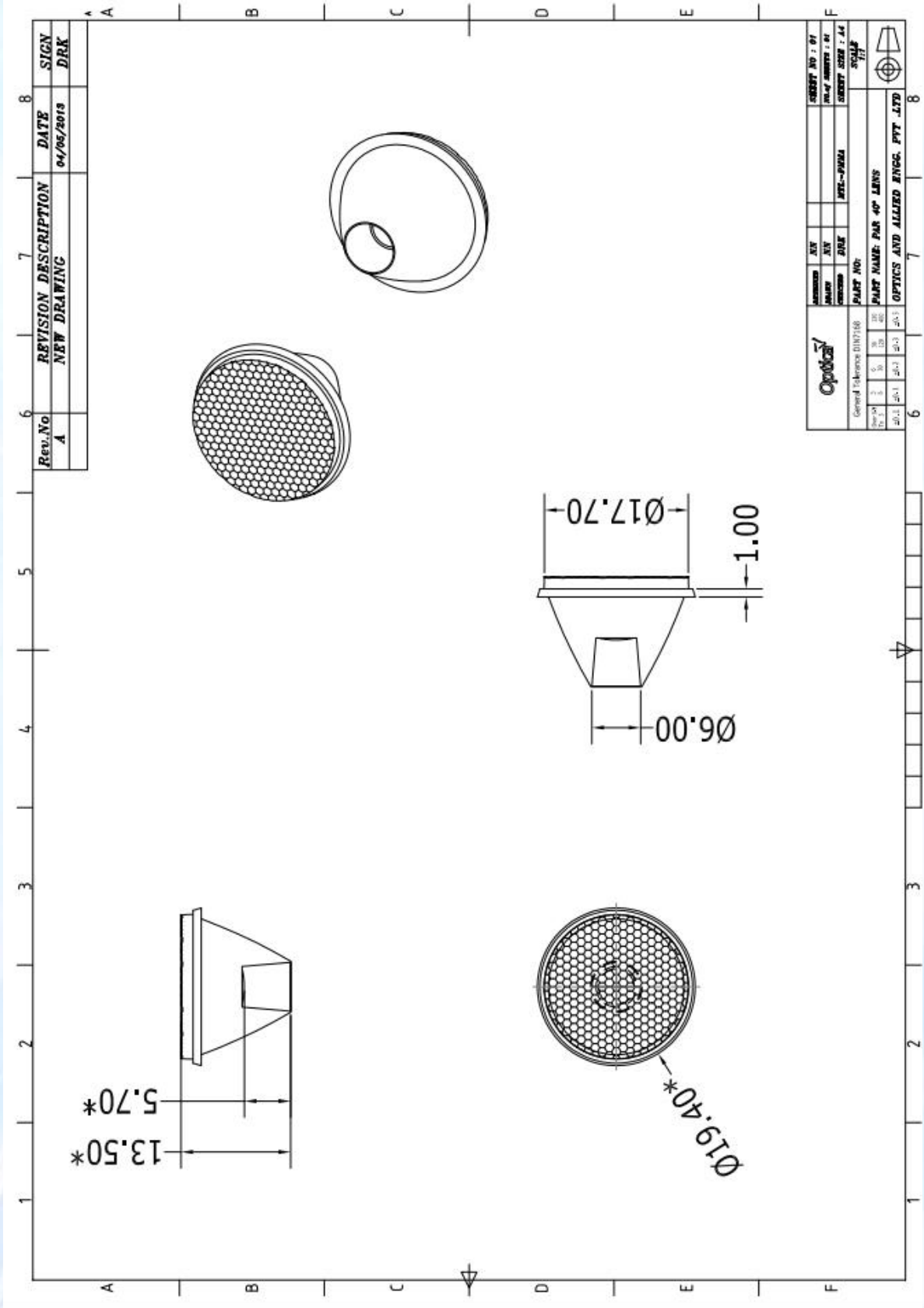
S. No	Parameter	Beam Angle
1.	FWHM Angle	43.39
2.	FWTM Angle	67.08
3.	Efficiency	93%
4.	cd/lm	1.8

Note:

FWHM angle - Full Width Half Maximum angle (Beam angle at 50% of the maximum Intensity)

FWTM angle - Full Width Tenth Maximum angle (Beam angle at 10% of the maximum Intensity)

Lens Drawing:



Rev.No	REVISION DESCRIPTION	DATE	SIGN.
A	NEW DRAWING	04/05/2013	DRK

DESIGNED	CHK	CHK	CHK	CHK	CHK	CHK	CHK
PART NO:		PART NAME:		SCALE:		MATERIAL:	
D1107188		PAR 40 LENS		1:1		MET.-PANA	
General Tolerance: DIM: M30							
Surface	1	2	3	4	5	6	7
Tolerance	± 0.1	± 0.1	± 0.1	± 0.1	± 0.1	± 0.1	± 0.1
PART NAME: PAR 40 LENS							
OPTICS AND ALLED ENGS. PVT. LTD.							

“We Are Ready To Lead You Into The Future Of Optics”

- ❖ Our Components of high efficiency, are easy to mount and compact in size.
- ❖ Any flow lines on the external surface of the lens are acceptable if the optical characteristics are not affected.
- ❖ We are incredibly responsive to your requests and value your questions.



GET IN TOUCH WITH US

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