

# DATA SHIEET

Lens Part No: OPLLC0137

LED: CREE X-LAMP XP-G







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## Lens Details, Usage & Maintenance

SL.No	Parameter	Specification
1.	Lens Material	PMMA
2.	Lens Dimensions $(D \times H)$	21.94 X 15.45 mm
3.	Operating Temperature $(T_{Opt})$	-40 to +70° C
4.	Lighting Application	Down 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 Downlight lens with CREE X-LAMP XP-G LED.



### **LED Source Details**

SL.No	Parameter	Specification
1.	Lamp	X-LAMP-XP-G
2.	LED Manufacture	CREE
3.	LED Forward Current	350 mA
4.	LED Forward Voltage	2.9 V
5.	LED Viewing Angle	1250
6.	Number of Sources	1
7.	Simulation Tool	Trace-Pro

## **Simulation Tool: Trace-Pro**

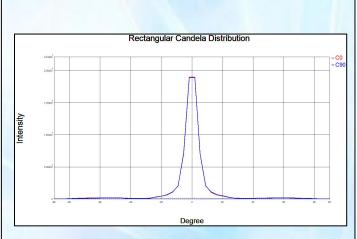
Trace-Pro is Award-Winning Opto-Mechanical software developed by 'Lamda Research Corporation'USA, under SBIR grant from NASA.

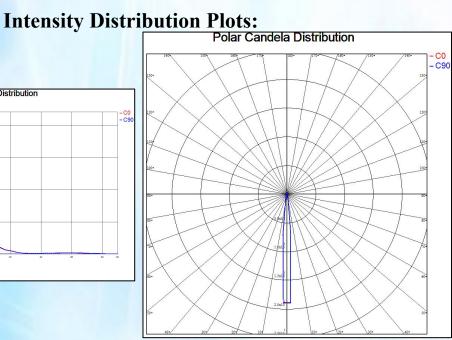
It combines design, ray tracing, analysis, optimization methods to solve a wide variety of new problems in illumination design.

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



### **Plots and Results**





S. No	Parameter	Beam Angle
1.	FWHM Angle	8.3
2.	FWTM Angle	17.2
3.	Efficiency	91.6%
4.	cd/lm	17.5

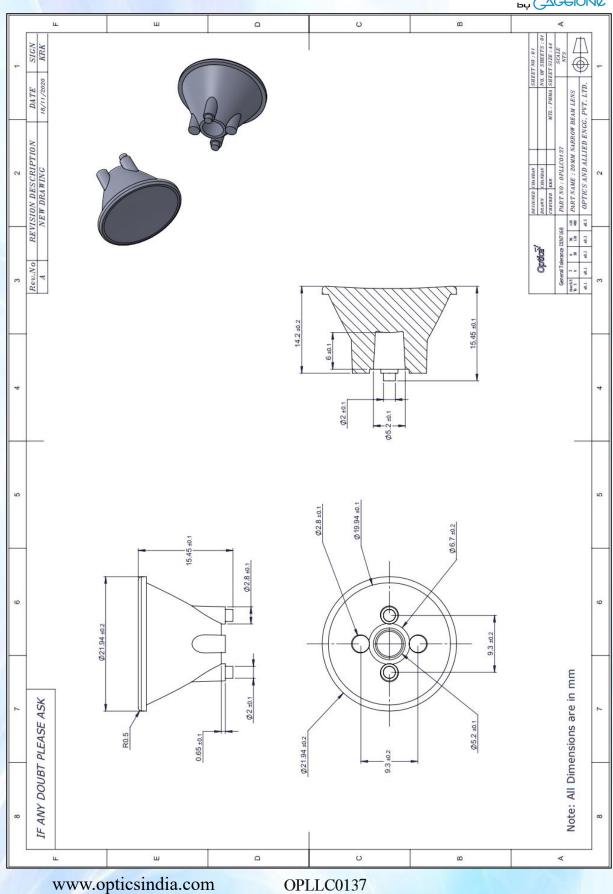
#### Note:

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:**





### "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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