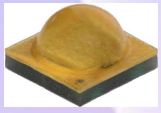
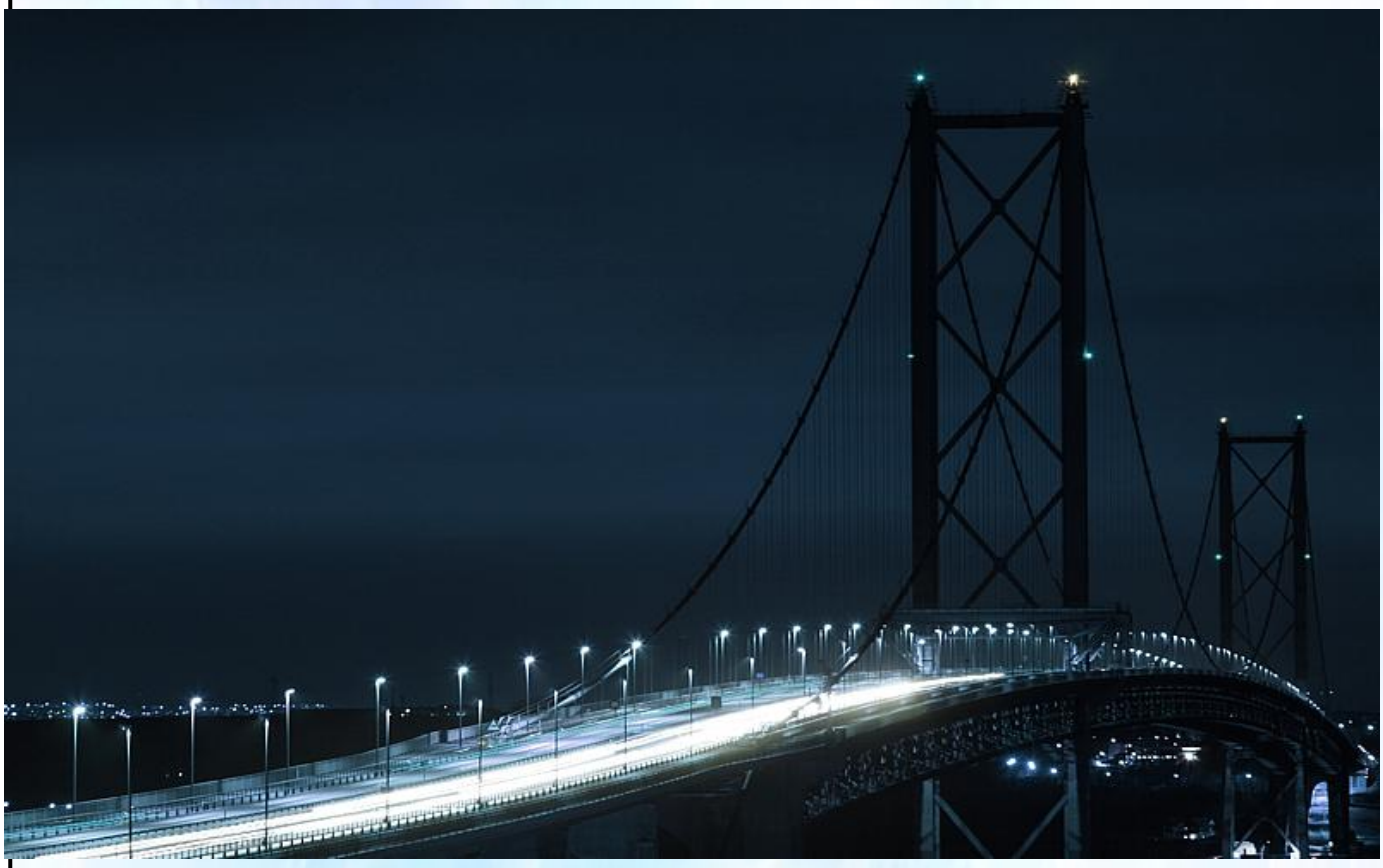
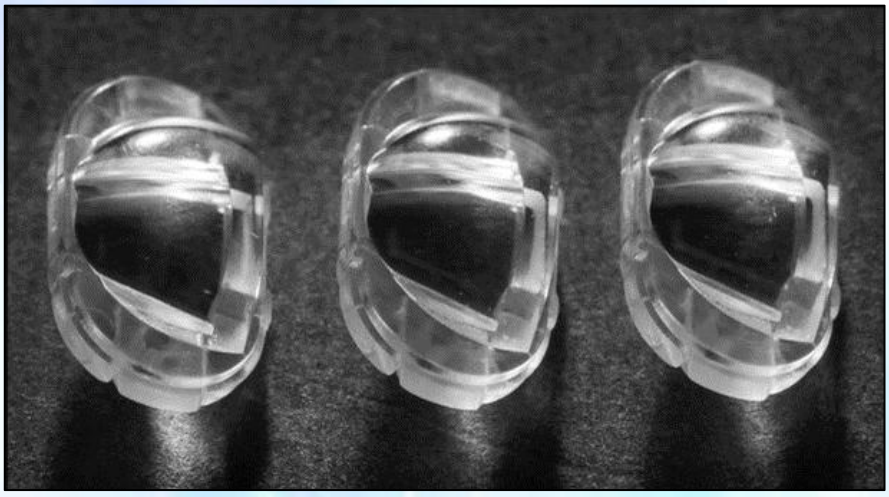
DATA SHEET

Lens Part No : OPLLS0042

LED: CREE XLAMP XP-G3 



Contents



Lens Details, Usage & Maintenance

SL.No	Parameter	Specification
1.	Lens Material	Polycarbonate
2.	Lens Dimensions (L × W × H)	14.30 x 7.80 x 5.14mm
3.	Operating Temperature (T_{Opt})	-40 to +125° C
4.	Lighting Application	Street 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-G3 LED.

LED Source Details

SL.No	Parameter	Specification
1.	Lamp	XLAMP XP-G3
2.	LED Manufacture	CREE
3.	LED Forward Current	350 mA
4.	LED Forward Voltage	2.73 V
5.	LED Viewing Angle	125^0
6.	Number of Sources	1
7.	Simulation Tool	Trace-Pro

Simulation Tool : Trace-Pro

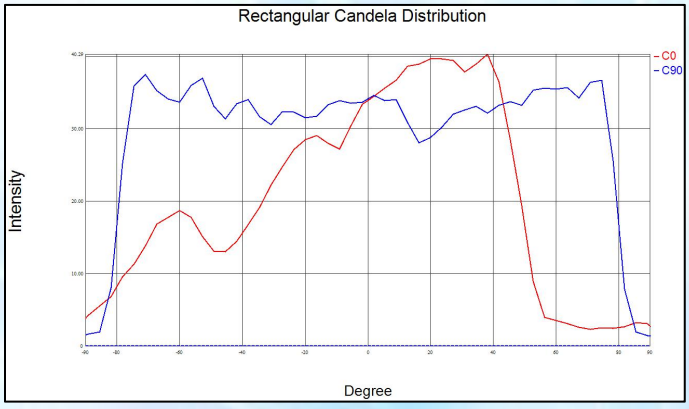
Trace-Pro is Award-Winning Opto-Mechanical software developed by 'Lamda Research Corporation'USA, under SBIR grant from NASA.

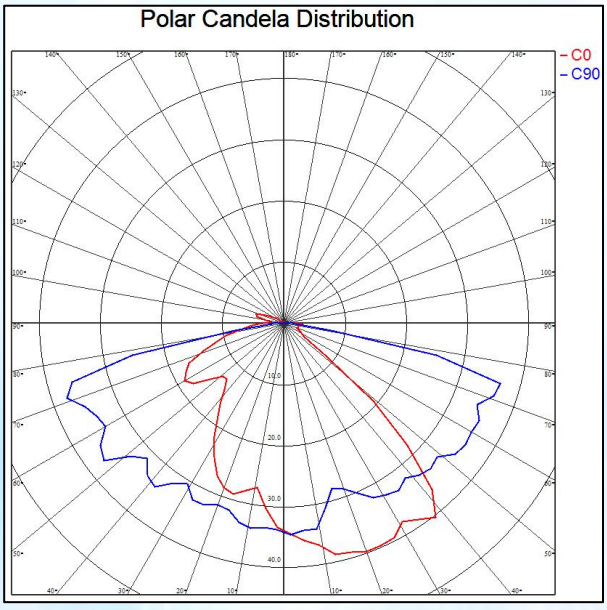
It combines design, ray tracing, analysis, optimization methods to solve a wide variety of new problems in illumination design.

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:





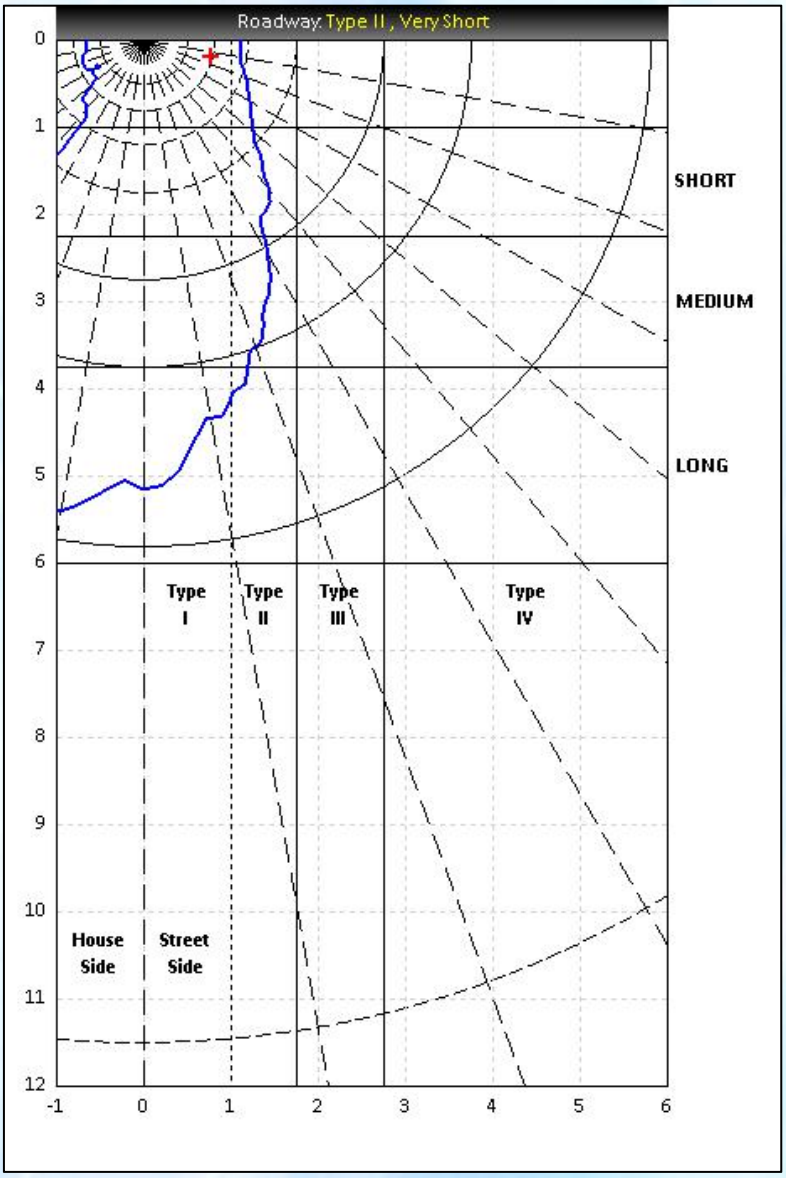
S. No	Parameter	Spread	Throw
1.	FWHM Angle	160˚	83˚
2.	FWTM Angle	166˚	145˚
3.	Efficiency	90.6%	
4.	cd/lm	0.32	

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)

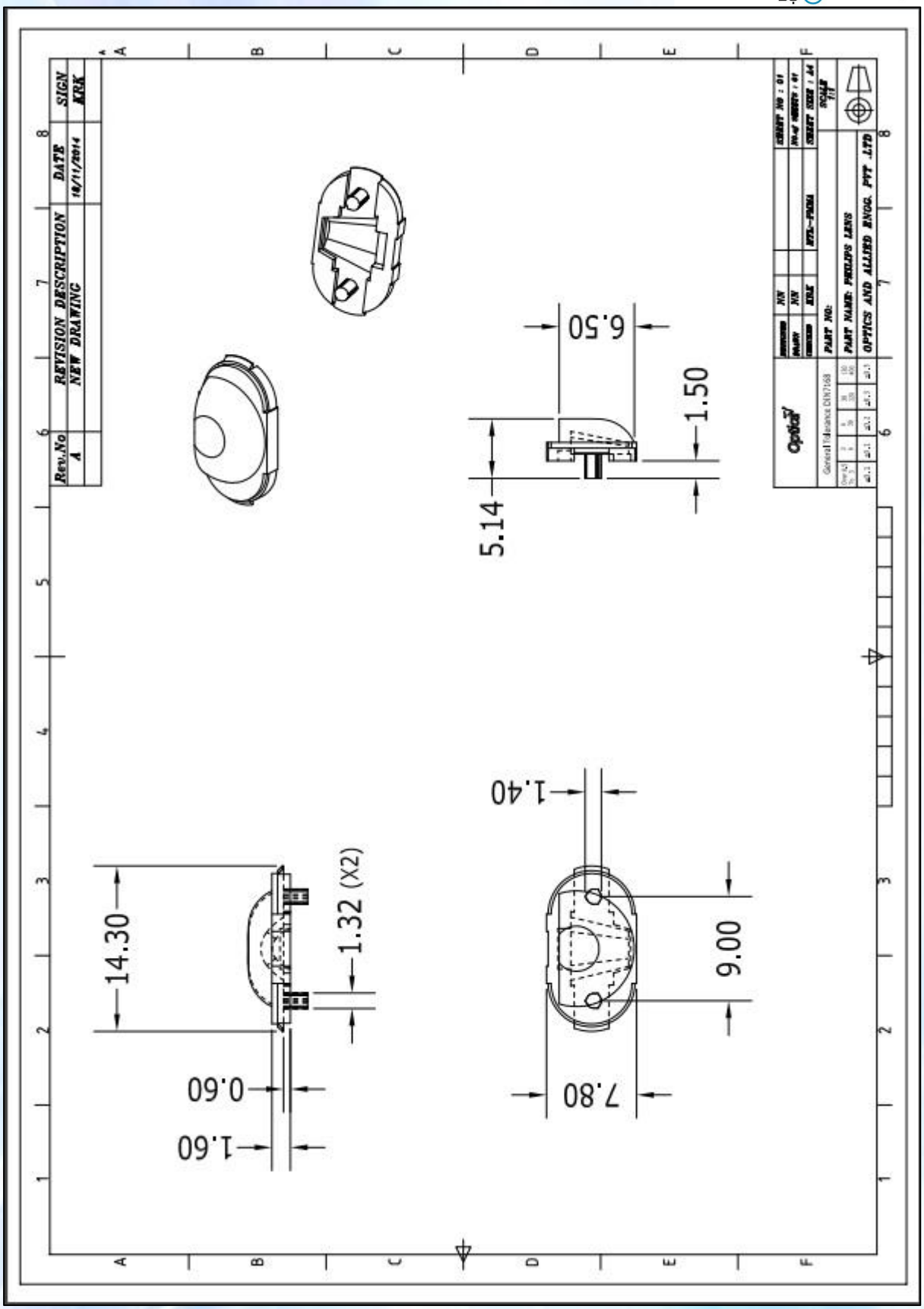
Roadway Classification:



Roadway Analysis:

BOOM ANGLE	DISTRIBUTION TYPE
0˚	II VERY SHORT
5˚	III VERY SHORT
10˚	III VERY SHORT
15˚	IV VERY SHORT

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.

Optica by GAGGIONE

GET IN TOUCH WITH US

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