

# DATA SHIEET

Lens Part No: OPLLS0074C

LED: EDISON FEDERAL 3535 FX







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# Lens Details, Usage & Maintenance

SL.No	Parameter	Specification
1.	Lens Material	Polycarbonate
2.	Lens Dimensions (L $\times$ W $\times$ H)	49.5 x 49.5 x 6.1mm
3.	Operating Temperature $(T_{Opt})$	-40 to +120° 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 9 in 1 Lens with EDISON FEDERAL 3535 FX Led's.



### **LED Source Details**

SL.No	Parameter	Specification
1.	Lamp	FEDERAL 3535 FX
2.	LED Manufacture	EDISON
3.	LED Forward Current	350 mA
4.	LED Forward Voltage	2.8 V
5.	LED Viewing Angle	115°
6.	Number of Sources	9
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.

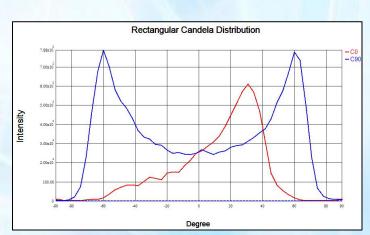
It combines design, ray tracing, analysis, optimization methods to solve a wide variety of new problems in illumination design.

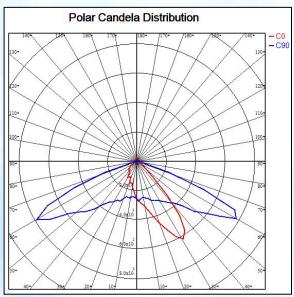
It provides advanced tools for designing medical devices, illumination, display back lights, light pipes, automotive lighting and many other applications.



# **Plots and Results**

### **Intensity Distribution Plots:**





S. No	Parameter	Spread	Throw
1.	FWHM Angle	136°	51°
2.	FWTM Angle	148°	101°
3.	Efficiency	89%	
4.	cd/lm	0.56	

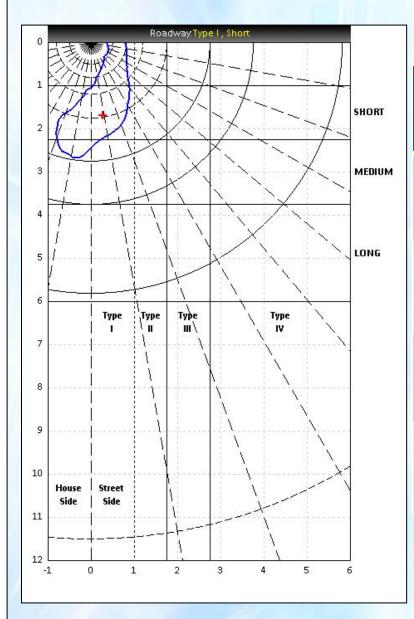
#### Note:

**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:**

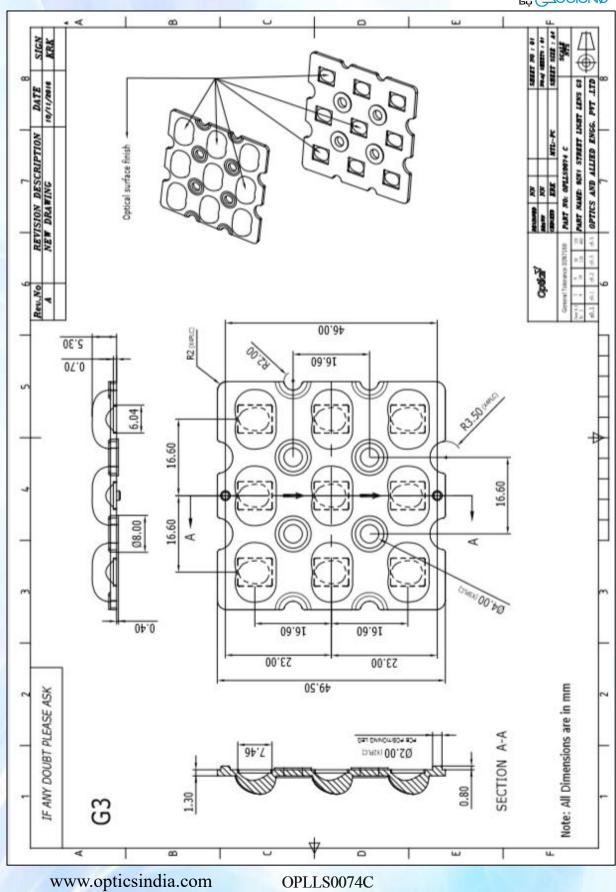


# **Roadway Analysis:**

BOOM ANGLE	DISTRIBUTION TYPE
<b>0</b> °	I SHORT
5°	II SHORT
10°	II SHORT
15°	II 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.



#### **GET IN TOUCH WITH US**

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