



# DATA SHEET

**Lens Part No : OPLLS0123C**

**LED: SAMSUNG LH351C**





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## Lens Details, Usage & Maintenance

SL.No	Parameter	Specification
1.	Lens Material	Polycarbonate
2.	Lens Dimensions (L × W × H)	121.10 x 54.10 x 7.11mm
3.	Operating Temperature (T <sub>Opt</sub> )	-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 12 in 1 street light lens with SAMSUNG LH351C LED.**

## LED Source Details

SL.No	Parameter	Specification
1.	Lamp	LH351C
2.	LED Manufacture	SAMSUNG
3.	LED Forward Current	700 mA
4.	LED Forward Voltage	2.9 V
5.	LED Viewing Angle	128 <sup>0</sup>
6.	Number of Sources	12
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.

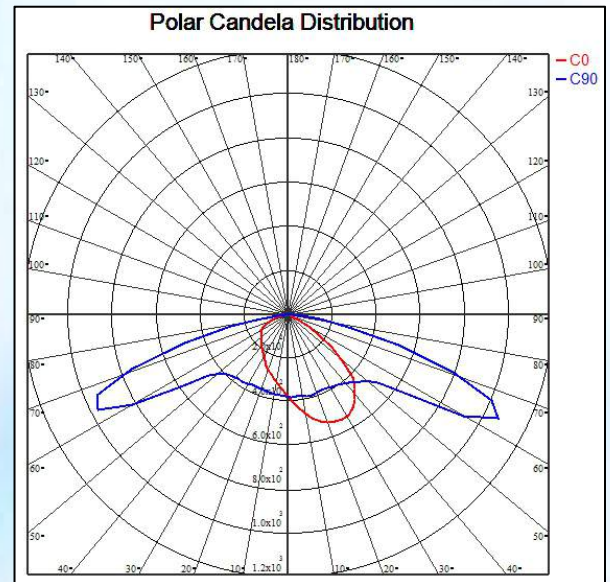
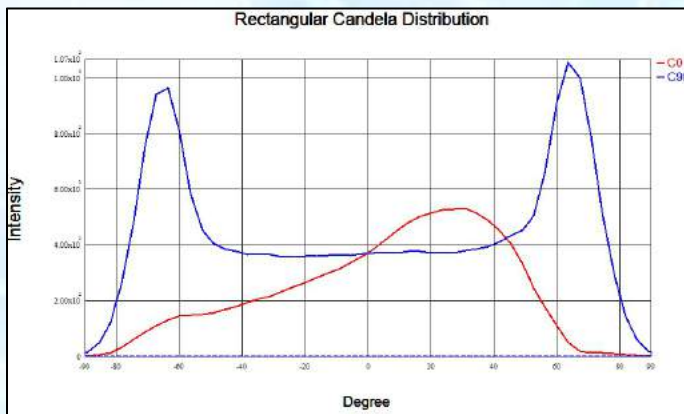
It combines design, ray tracing, analysis, optimization methods to solve a wide variety of new problems in illumination design.

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:



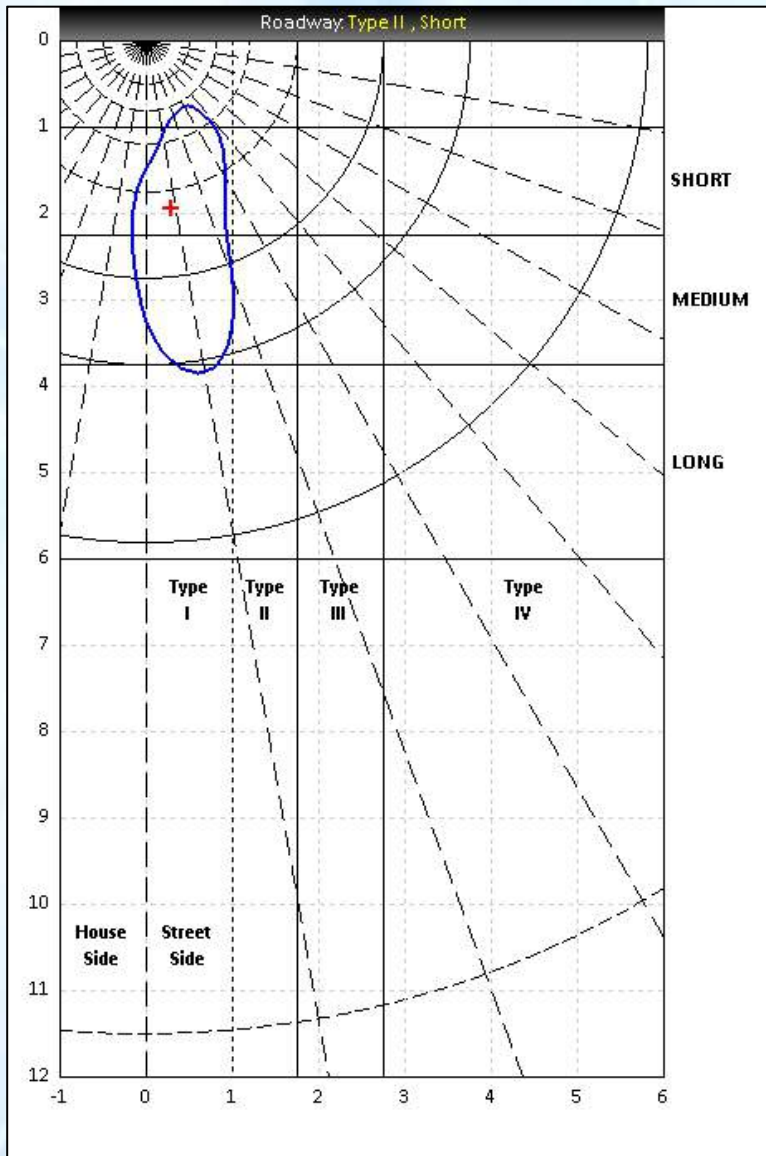
S. No	Parameter	Spread	Throw
1.	FWHM Angle	148°	70°
2.	FWTM Angle	161°	143°
3.	Efficiency	88%	
4.	cd/lm	0.75	

#### 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 SHORT
5°	II SHORT
10°	II SHORT
15°	III SHORT

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