

## LISA2-WW-CLIP

~45° wide beam optimized for CREE XP-E. 6.8 mm high variant with clip installation.

### SPECIFICATION:

Dimensions	Ø 9.9
Height	6.8 mm
Fastening	glue, clips
ROHS compliant	yes ⓘ

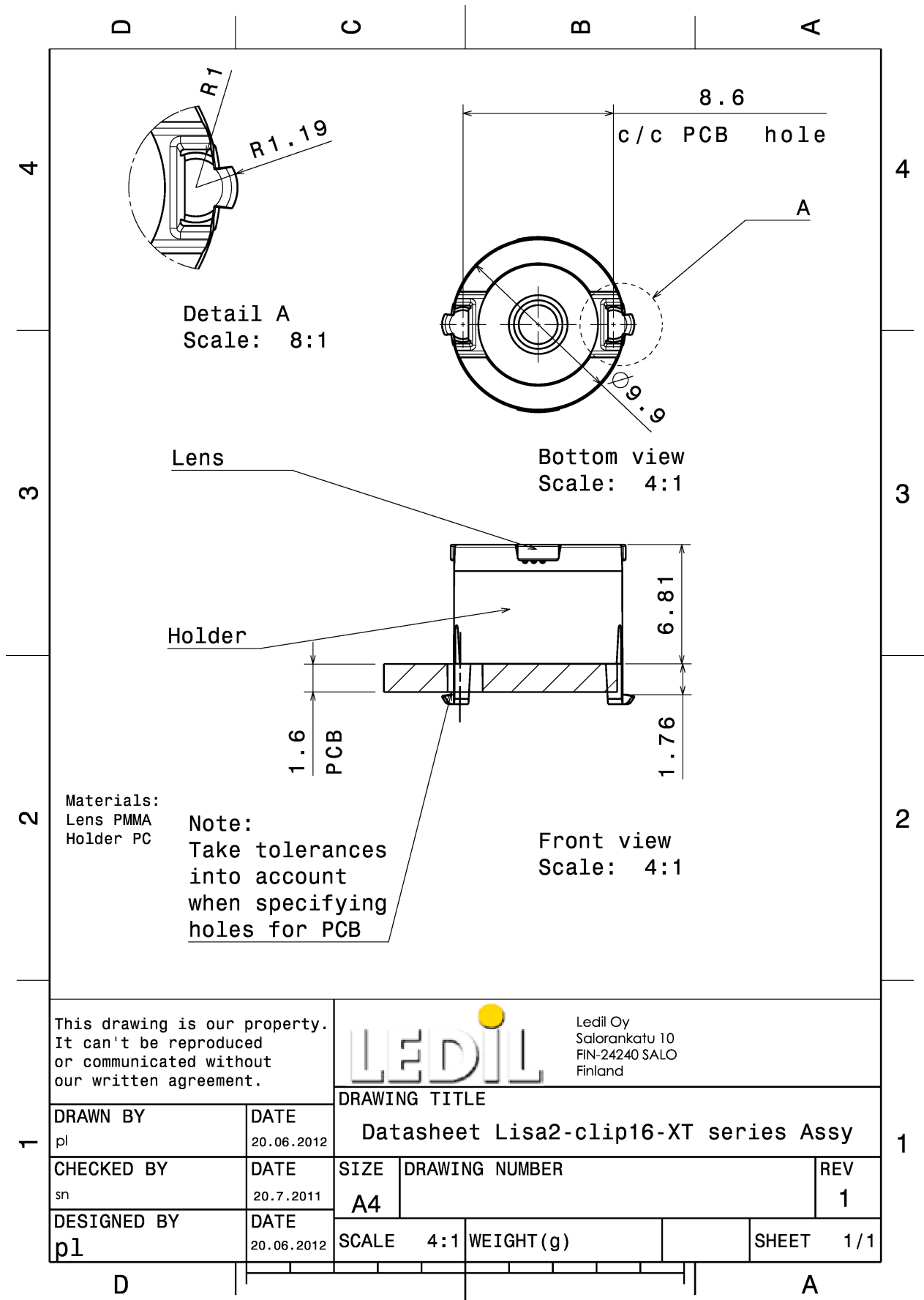


### MATERIALS:

Component	Type	Material	Colour	Finish	Length (mm)
LISA2-WW	Single lens	PMMA	clear		
LISA2-HLD-CLIP16-XP	Holder	PC	black		

### ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FP13029_LISA2-WW-CLIP	Single lens	2000	300	100	1.4
» Box size:					



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Ledil Oy  
Salorankatu 10  
FIN-24240 SALO  
Finland

**DRAWING TITLE**

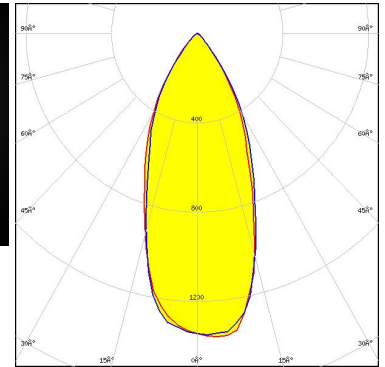
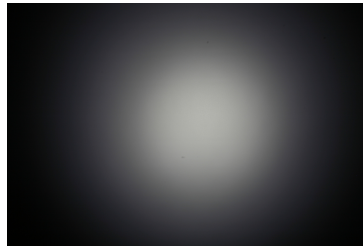
DRAWN BY pl		DATE 20.06.2012		Datasheet Lisa2-clip16-XT series Assy			
CHECKED BY sn		DATE 20.7.2011		SIZE A4	DRAWING NUMBER		REV 1
DESIGNED BY pl		DATE 20.06.2012		SCALE 4:1	WEIGHT (g)	SHEET 1/1	

See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

### OPTICAL RESULTS (MEASURED):



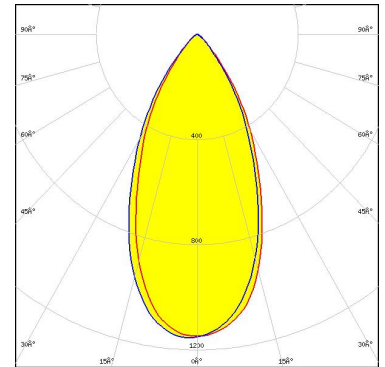
**LED** XP-E2  
**FWHM / FWTM** 43.0° / 79.0°  
**Efficiency** 88 %  
**Peak intensity** 1.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



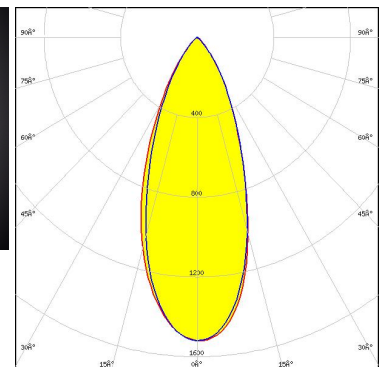
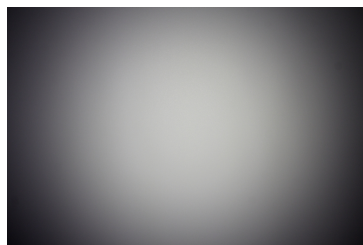
**LED** XP-G2  
**FWHM / FWTM** 47.0° / 83.0°  
**Efficiency** 88 %  
**Peak intensity** 1.2 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



**LED** XP-G3  
**FWHM / FWTM** 42.0° / 76.0°  
**Efficiency** 84 %  
**Peak intensity** 1.5 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**

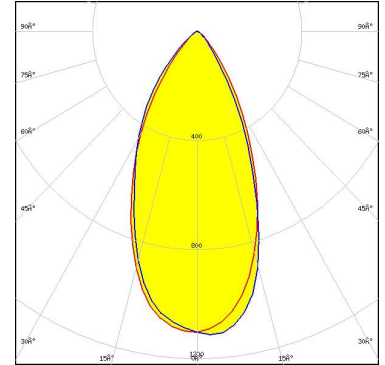


Light distribution files

### OPTICAL RESULTS (MEASURED):



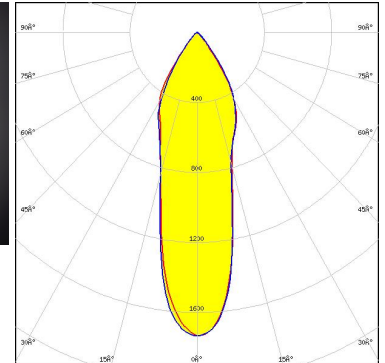
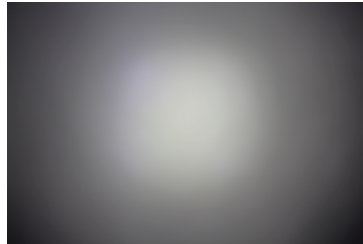
LED XT-E  
FWHM / FWTM 47.0° / 82.0°  
Efficiency 84 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



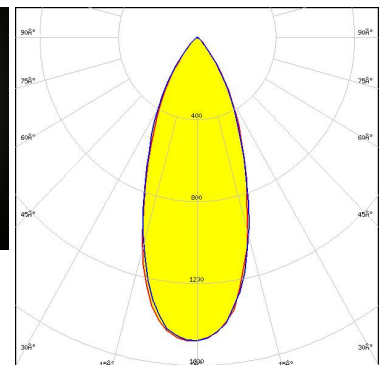
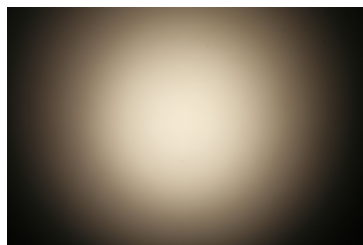
LED LUXEON CZ  
FWHM / FWTM 29.0° / 76.0°  
Efficiency 86 %  
Peak intensity 1.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED NCSxx19B  
FWHM / FWTM 41.0° / 78.0°  
Efficiency 86 %  
Peak intensity 1.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

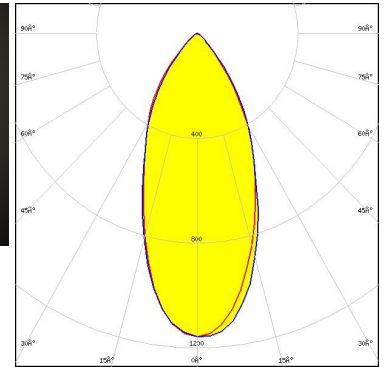
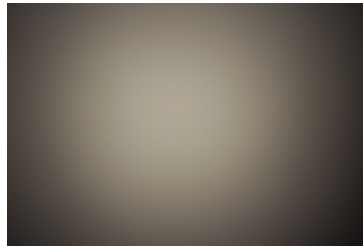


Light distribution files

#### OPTICAL RESULTS (MEASURED):

**OSRAM**  
Opto Semiconductors

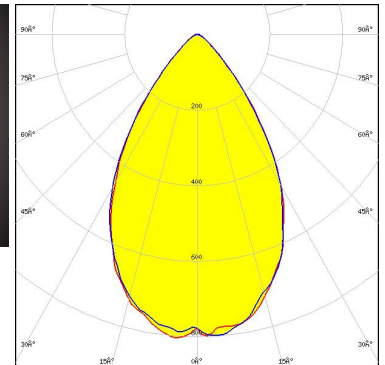
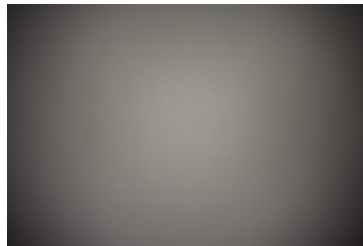
LED OSLON Square EC  
 FWHM / FWTM 46.0° / 86.0°  
 Efficiency 84 %  
 Peak intensity 1.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

**SAMSUNG**

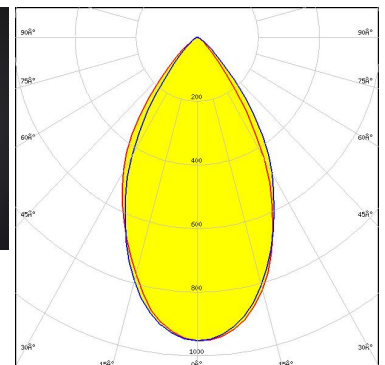
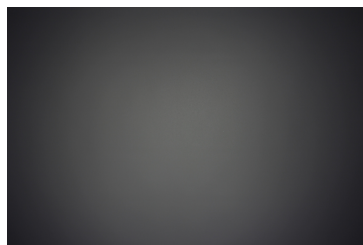
LED LH351B  
 FWHM / FWTM 67.0° / 96.0°  
 Efficiency 88 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

**SAMSUNG**

LED LH351Z  
 FWHM / FWTM 60.0° / 91.0°  
 Efficiency 90 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

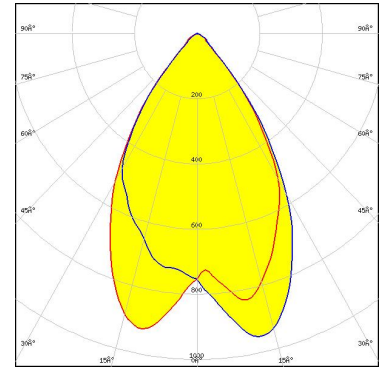


Light distribution files

### OPTICAL RESULTS (SIMULATED):



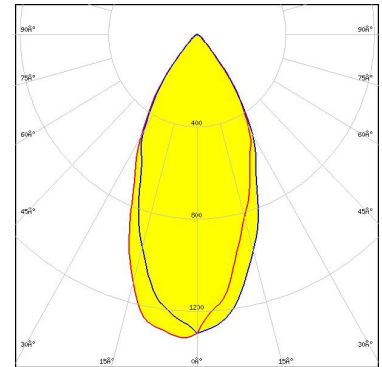
LED XP-E2  
 FWHM / FWTM 64.0° / 90.0°  
 Efficiency 95 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type PC Amber  
 Required components:



Light distribution files



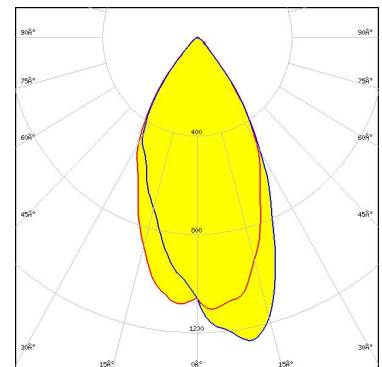
LED XP-E2  
 FWHM / FWTM 45.0° / 83.0°  
 Efficiency 96 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type Blue  
 Required components:



Light distribution files



LED XP-E2  
 FWHM / FWTM 52.0° / 85.0°  
 Efficiency 96 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type Green  
 Required components:

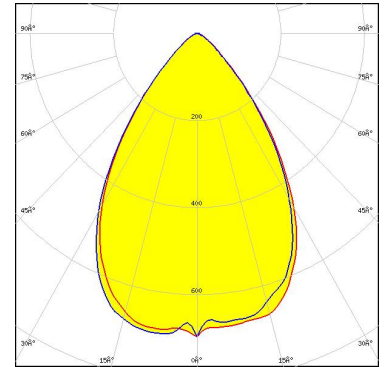


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



LED XP-G2 HE  
FWHM / FWTM 69.0° / 100.0°  
Efficiency 88 %  
Peak intensity 0.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



[Light distribution files](#)



LED LUXEON IR Compact  
FWHM / FWTM 51.0° / 83.0°  
Efficiency 84 %  
LEDs/each optic 1  
Light colour/type White  
Required components:

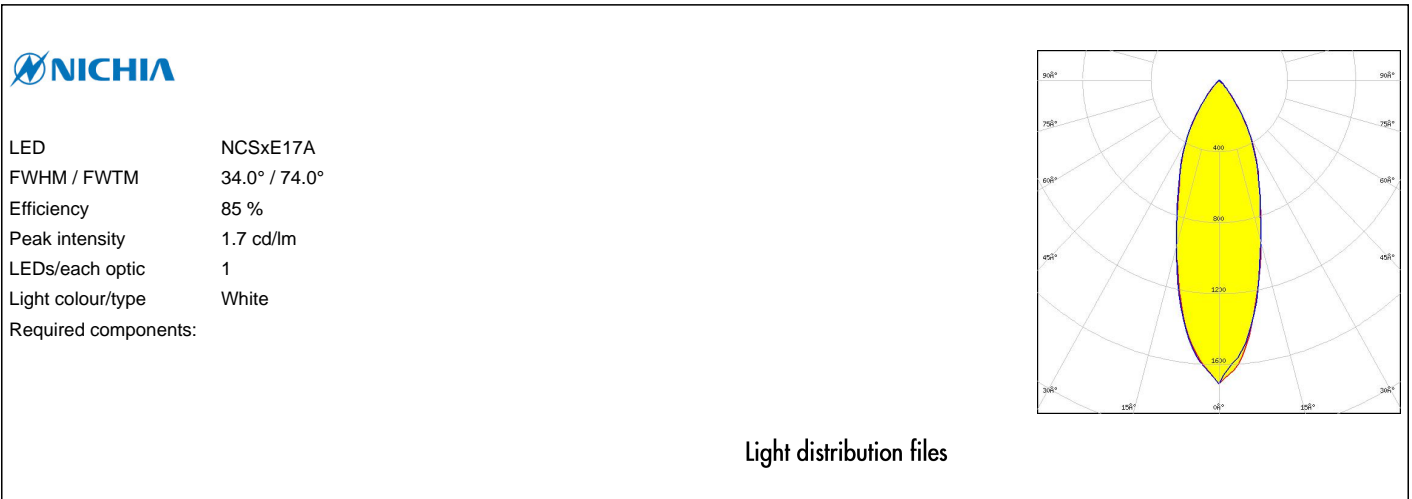
[Light distribution files](#)



LED LUXEON Q  
FWHM / FWTM 54.0° / 84.0°  
Efficiency 84 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

[Light distribution files](#)

#### OPTICAL RESULTS (SIMULATED):





### GENERAL INFORMATION:

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

### MATERIALS:

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