

## LISA2-O-90-CLIP

~20° x 50° turned oval beam optimized for CREE XP-E. 6.8 mm high variant with clip installation.

### TECHNICAL SPECIFICATIONS:

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

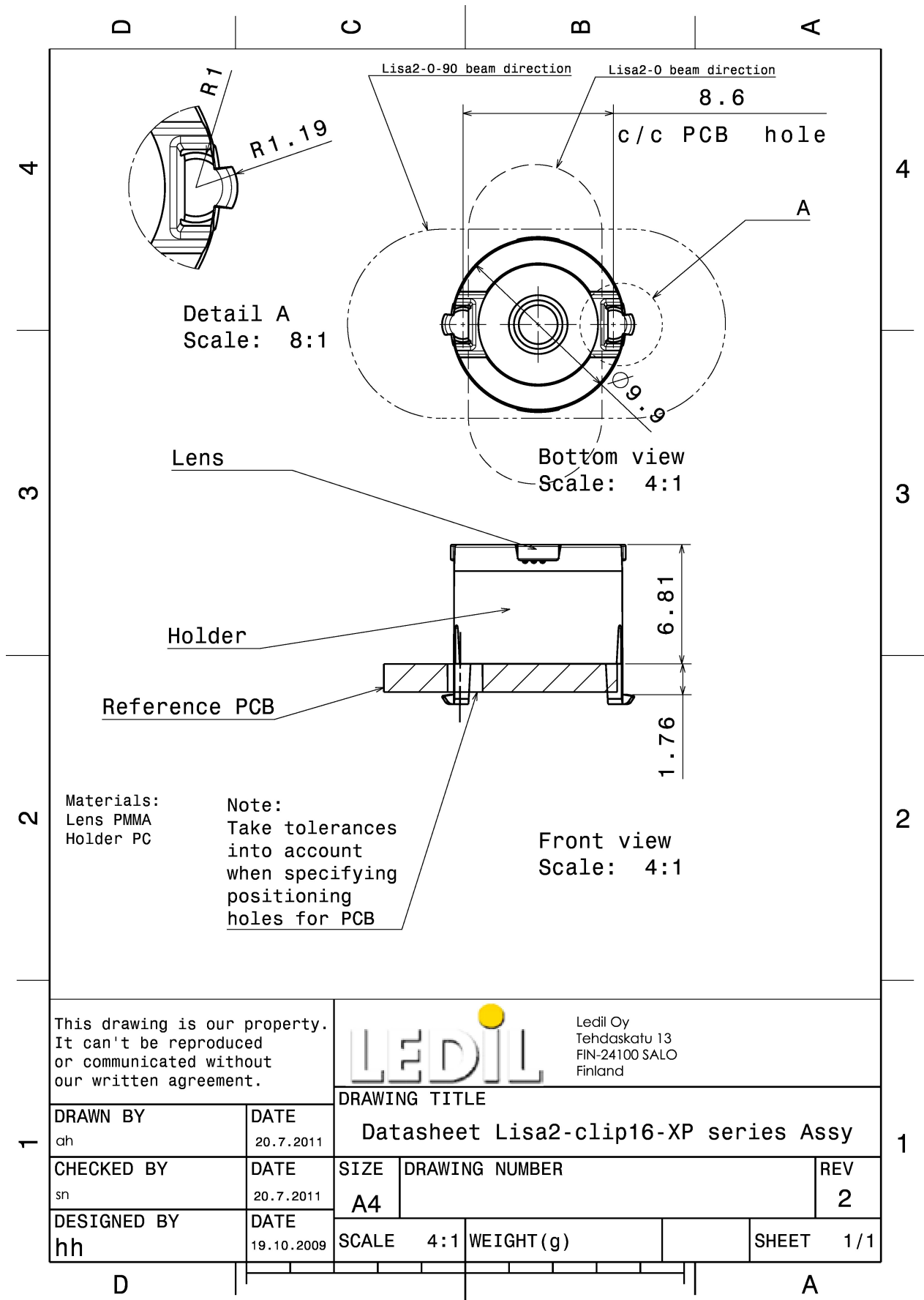


### MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
LISA2-O-XP	Single lens	PMMA	clear	
LISA2-HLD-CLIP16-XP	Holder	PC	black	

### ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FP11856_LISA2-O-90-CLIP	Single lens	2000		100	1.4
» Box size:					



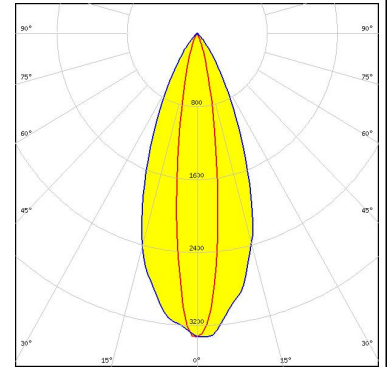
This drawing is our property. It can't be reproduced or communicated without our written agreement.				Ledil Oy Tehdaskatu 13 FIN-24100 SALO Finland	
DRAWN BY ch		DATE 20.7.2011		DRAWING TITLE Datasheet Lisa2-clip16-XP series Assy	
CHECKED BY sn		DATE 20.7.2011		SIZE A4	DRAWING NUMBER
DESIGNED BY hh		DATE 19.10.2009		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)

#### PHOTOMETRIC DATA (MEASURED):



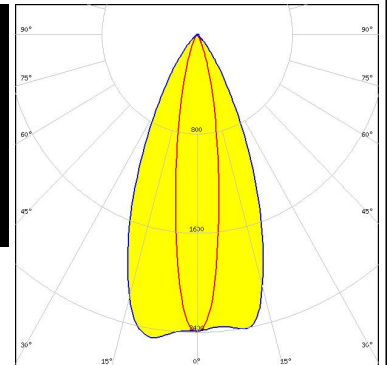
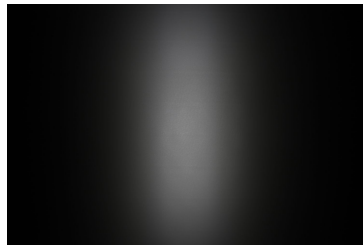
LED XP-E  
 FWHM / FWTM 48.0 + 18.0°  
 Efficiency 83 %  
 LEDs/each optic 1  
 Light colour White  
 Required components:



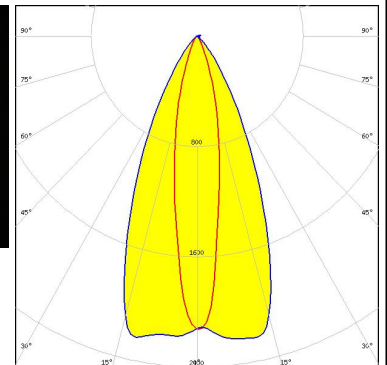
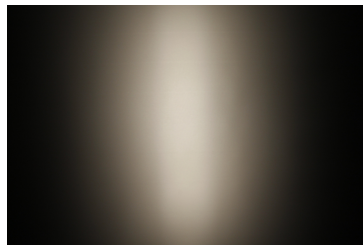
LED XP-G  
 FWHM / FWTM 48.0 + 18.0°  
 Efficiency 86 %  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED LUXEON C  
 FWHM / FWTM 17.0 + 47.0° / 39.0 + 75.0°  
 Efficiency 80 %  
 Peak intensity 2.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED LUXEON Z ES  
 FWHM / FWTM 18.0 + 49.0° / 44.0 + 77.0°  
 Efficiency 80 %  
 Peak intensity 2.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



## PHOTOMETRIC DATA (MEASURED):

**OSRAM**  
Opto Semiconductors

LED SFH 4170S  
FWHM / FWTM 13.0 + 46.0° / 39.0 + 74.0°  
Efficiency %  
LEDs/each optic 1  
Light colour IR  
Required components:

**OSRAM**  
Opto Semiconductors

LED SFH 4180S  
FWHM / FWTM 13.0 + 48.0° / 39.0 + 73.0°  
Efficiency %  
LEDs/each optic 1  
Light colour IR  
Required components:

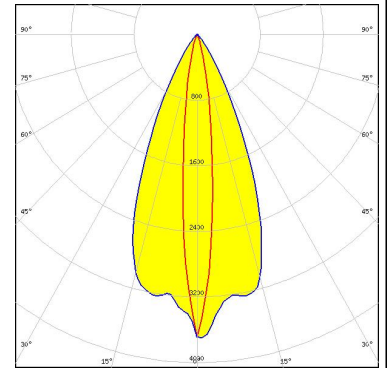
### PHOTOMETRIC DATA (SIMULATED):

#### CREE LED

LED XQ-E HD  
FWHM / FWTM 40.0 + 13.0° / 69.0 + 32.0°  
Efficiency 86 %  
Peak intensity 3.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

#### CREE LED

LED XQ-E HI  
FWHM / FWTM 46.0 + 11.0° / 68.0 + 28.0°  
Efficiency 83 %  
Peak intensity 3.8 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### SHARP

LED Double Dome (GM2BB)  
FWHM / FWTM 48.0 + 20.0°  
Efficiency %  
LEDs/each optic 1  
Light colour White  
Required components:

### 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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