

## LISA2-M-CLIP

~20° medium beam optimized for CREE XP-E.  
6.8 mm high variant with clip installation.

### SPECIFICATION:

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

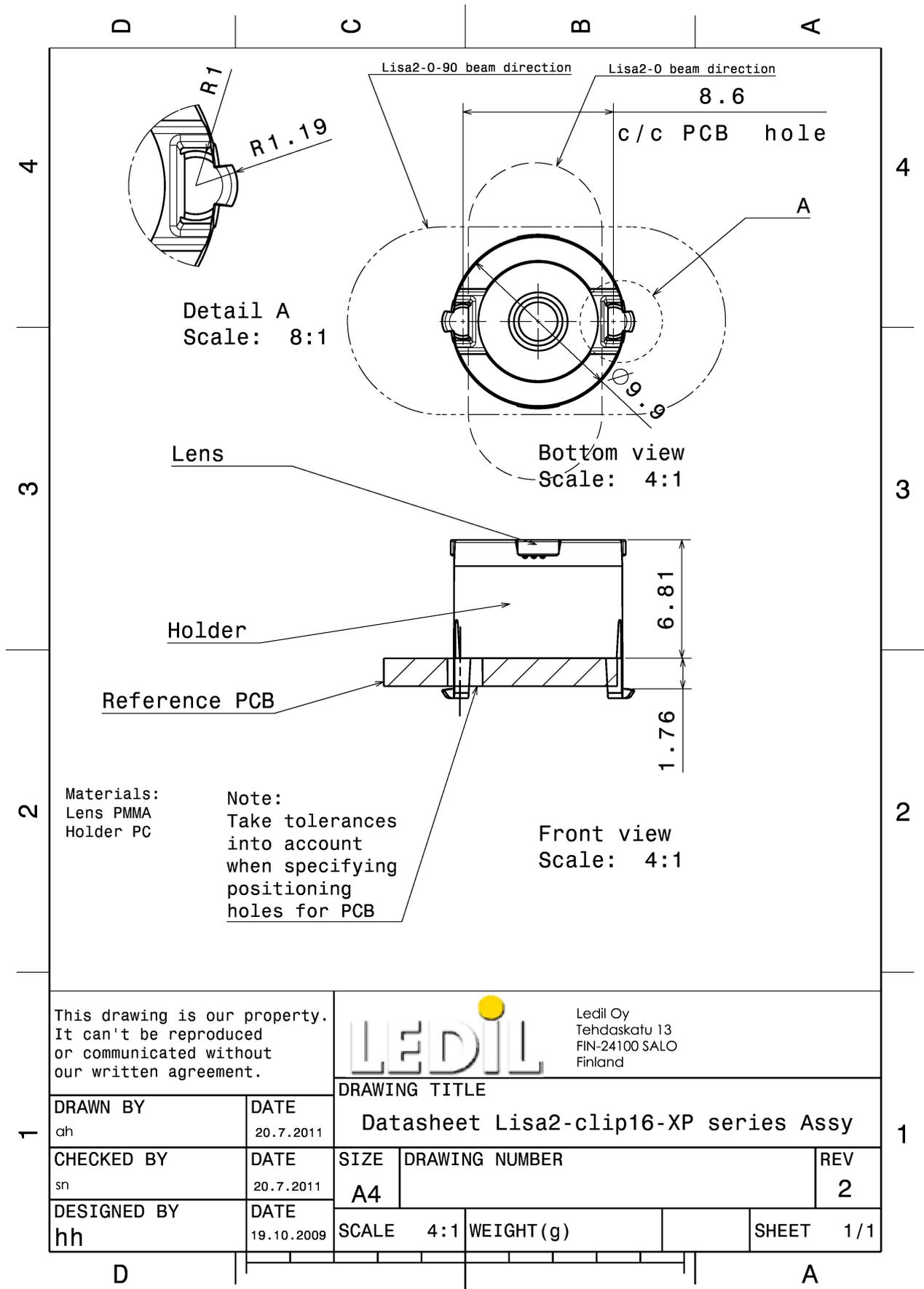


### MATERIALS:

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

### ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FP11075_LISA2-M-CLIP	Single lens	2000	300	100	1.4
» Box size:					



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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)

#### OPTICAL RESULTS (MEASURED):



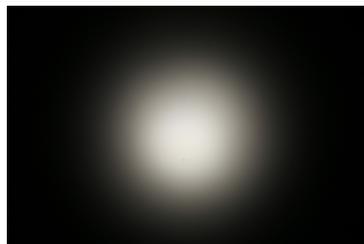
LED XP-E  
 FWHM / FWTM 24.0°  
 Efficiency 92 %  
 LEDs/each optic 1  
 Light colour White  
 Required components:



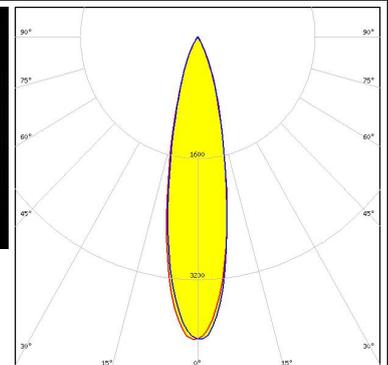
LED XP-G  
 FWHM / FWTM 34.0°  
 Efficiency 92 %  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED LUXEON Z  
 FWHM / FWTM 19.0° / 41.0°  
 Efficiency 86 %  
 Peak intensity 5.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED LUXEON Z ES  
 FWHM / FWTM 23.0° / 48.0°  
 Efficiency 87 %  
 Peak intensity 4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OPTICAL RESULTS (MEASURED):

##### **OSRAM** Opto Semiconductors

LED SFH 4170S  
FWHM / FWTM 13.0° / 37.0°  
Efficiency %  
LEDs/each optic 1  
Light colour IR  
Required components:

##### **OSRAM** Opto Semiconductors

LED SFH 4180S  
FWHM / FWTM 13.0° / 36.0°  
Efficiency %  
LEDs/each optic 1  
Light colour IR  
Required components:

##### **SHARP**

LED Double Dome (GM2BB)  
FWHM / FWTM 28.0°  
Efficiency %  
LEDs/each optic 1  
Light colour White  
Required components:

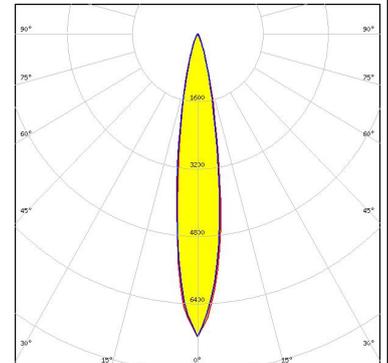
#### OPTICAL RESULTS (SIMULATED):



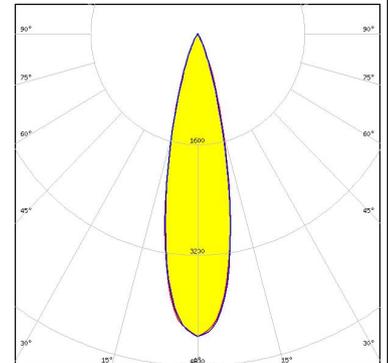
LED XQ-E HD  
 FWHM / FWTM 27.5° / 63.0°  
 Efficiency 91 %  
 Peak intensity 3.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



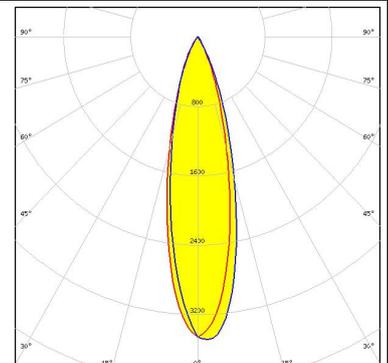
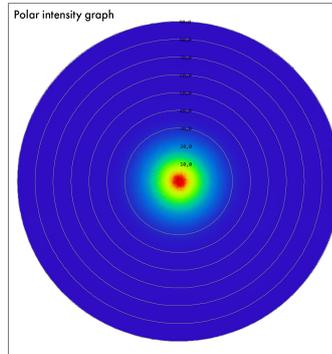
LED XQ-E HI  
 FWHM / FWTM 17.0° / 35.0°  
 Efficiency 89 %  
 Peak intensity 7.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED SST-10-B130  
 FWHM / FWTM 24.0° / 45.0°  
 Efficiency 93 %  
 Peak intensity 4.4 cd/lm  
 LEDs/each optic 1  
 Light colour Green  
 Required components:



LED SFH 4770S  
 FWHM / FWTM 20.0° / 43.0°  
 Efficiency 92 %  
 LEDs/each optic 1  
 Light colour IR  
 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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