

## 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 ⓘ

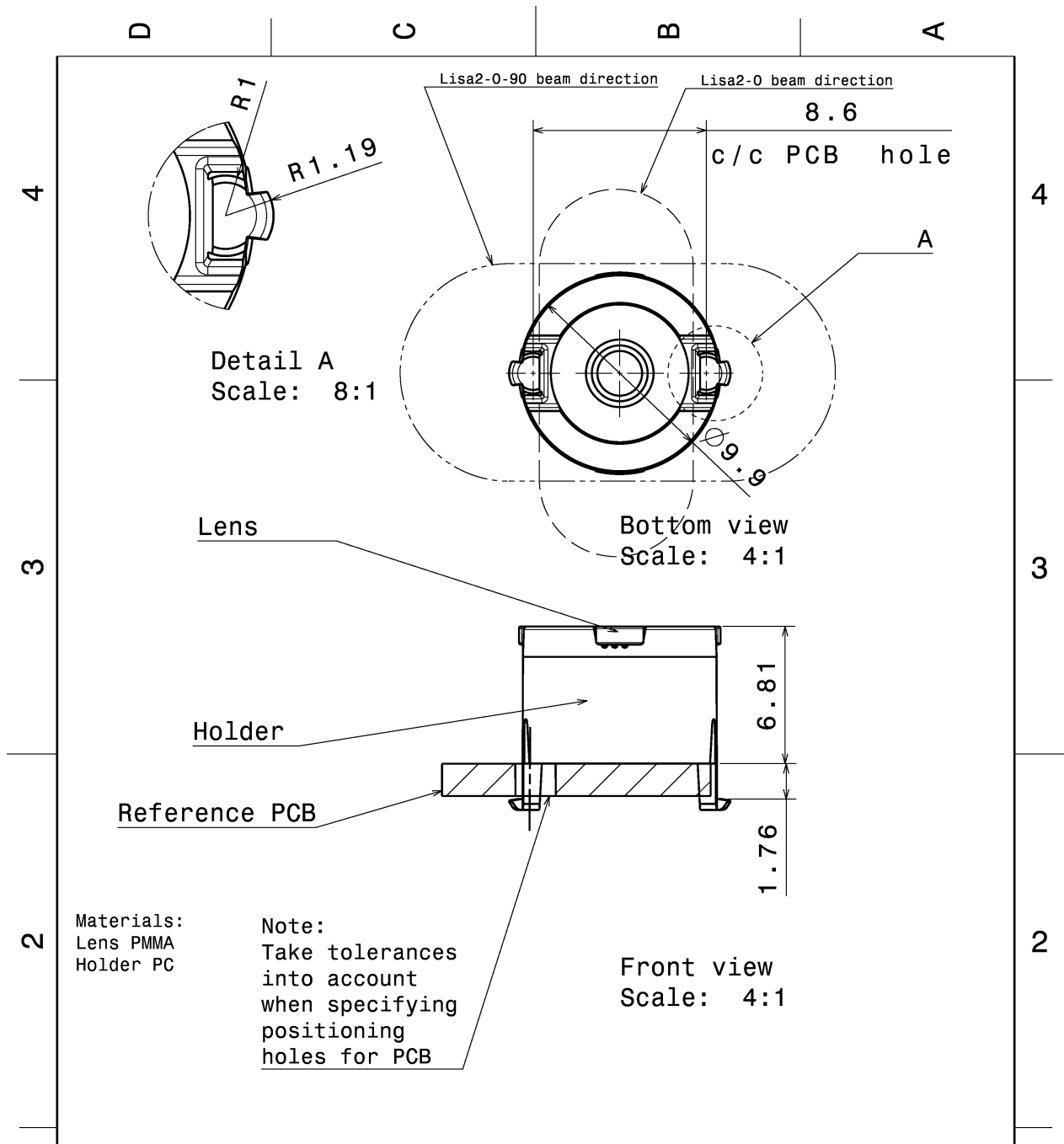
### MATERIAL SPECIFICATIONS:

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:					

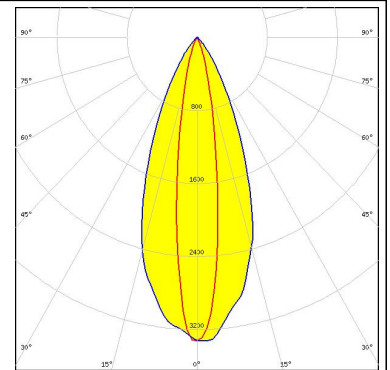


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<b>DRAWING TITLE</b>					
DRAWN BY ch		DATE 20.7.2011		Datasheet Lisa2-clip16-XP series Assy	
CHECKED BY sn	DATE 20.7.2011	SIZE A4	DRAWING NUMBER		REV 2
DESIGNED BY hh	DATE 19.10.2009	SCALE 4:1	WEIGHT (g)	SHEET 1/1	

#### PHOTOMETRIC DATA (MEASURED):



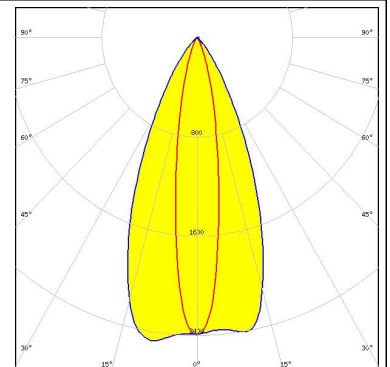
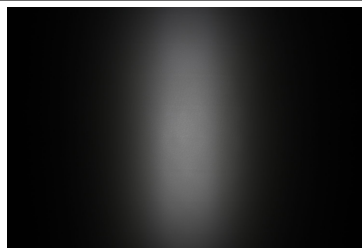
LED XP-E  
 FWHM 48.0 + 18.0°  
 Efficiency 83 %  
 LEDs/each optic 1  
 Light colour White  
 Required components:



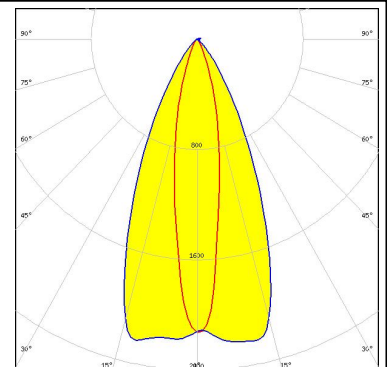
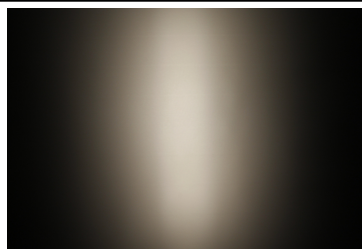
LED XP-G  
 FWHM 48.0 + 18.0°  
 Efficiency 86 %  
 LEDs/each optic 1  
 Light colour White  
 Required components:



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



LED LUXEON Z ES  
 FWHM 18.0 + 49.0°  
 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 13.0 + 46.0°  
Efficiency %  
LEDs/each optic 1  
Light colour IR  
Required components:

**OSRAM**  
Opto Semiconductors

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

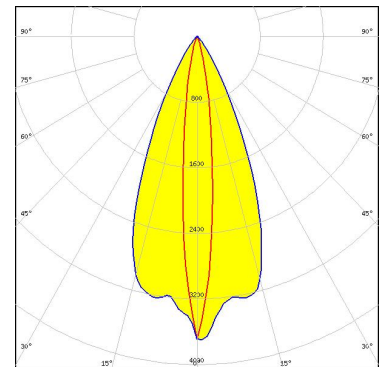
#### PHOTOMETRIC DATA (SIMULATED):

#### CREE

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

#### CREE

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



#### SHARP

LED Double Dome (GM2BB)  
FWHM 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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#### LEDiL Oy

Joensuunkatu 13  
FI-24240 SALO  
Finland

#### LEDiL Inc.

228 West Page Street  
Suite D  
Sycamore IL 60178  
USA

#### Local sales and technical support

[www.ledil.com/  
where\\_to\\_buy](http://www.ledil.com/where_to_buy)

#### Shipping locations

Salo, Finland  
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