

## 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 ⓘ

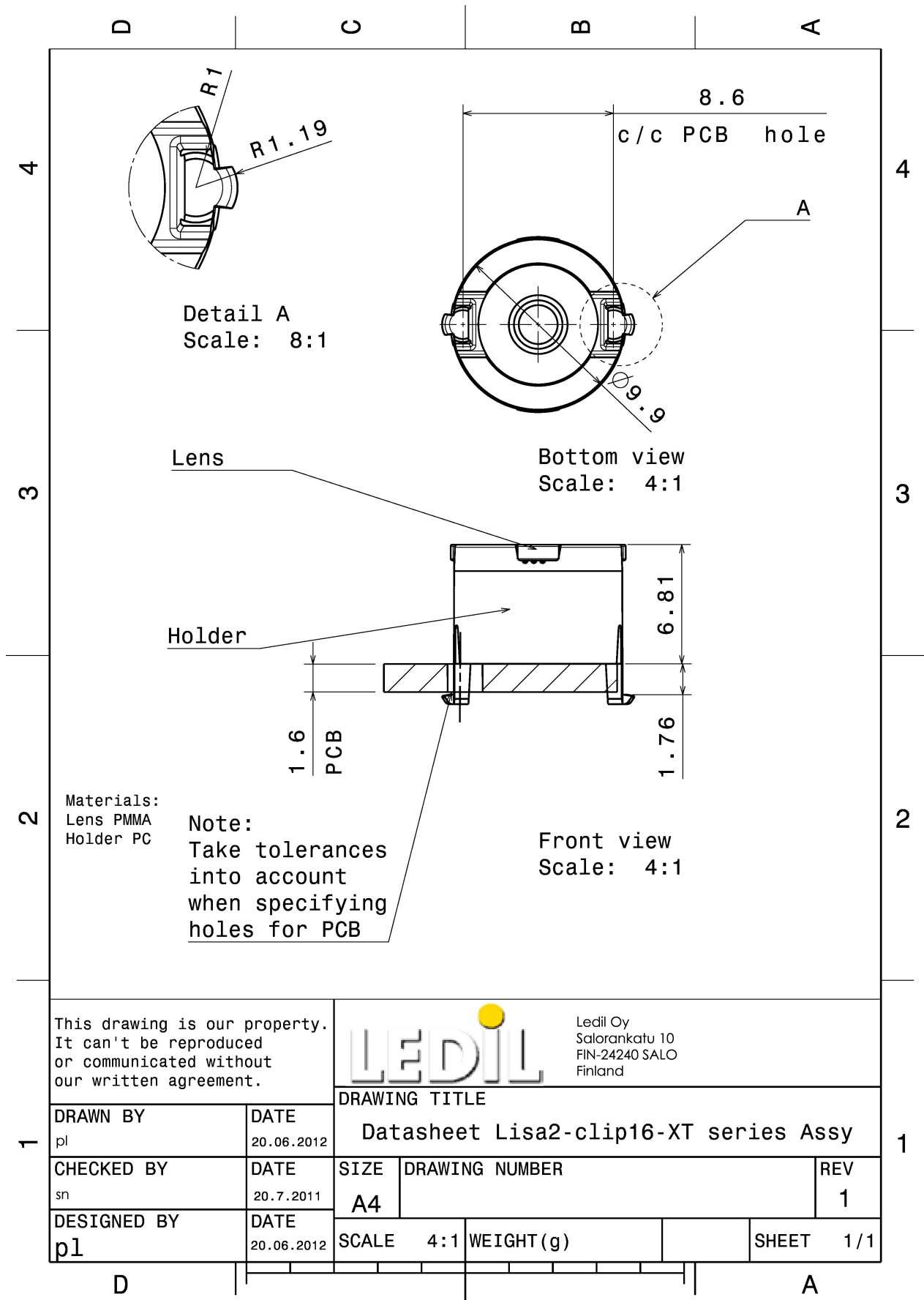


### MATERIALS:

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)
FP13030_LISA2-M-CLIP	Single lens	2000		100	1.4
» Box size:					



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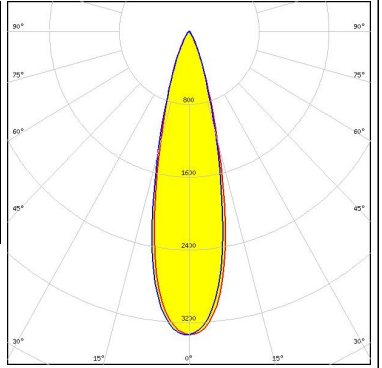

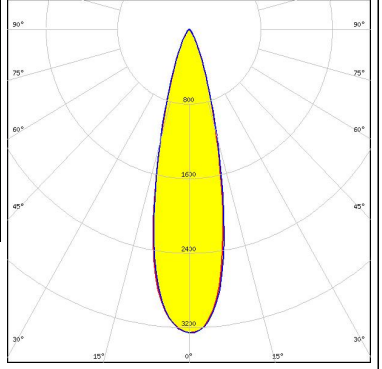
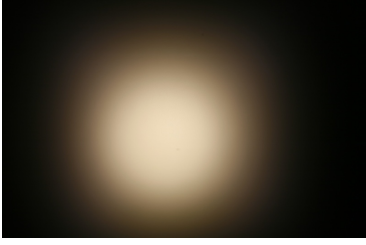
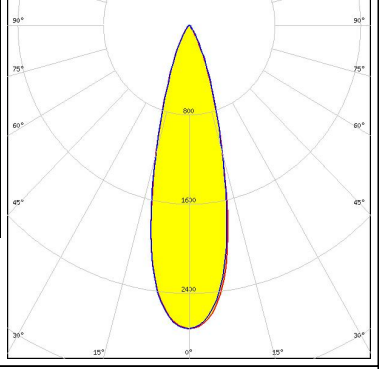
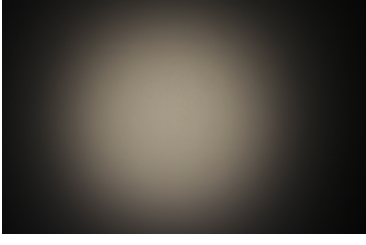
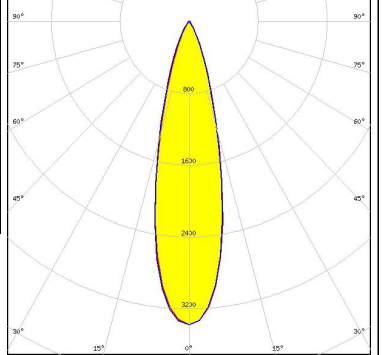
Ledil Oy  
Salorankatu 10  
FIN-24240 SALO  
Finland

**DRAWING TITLE**


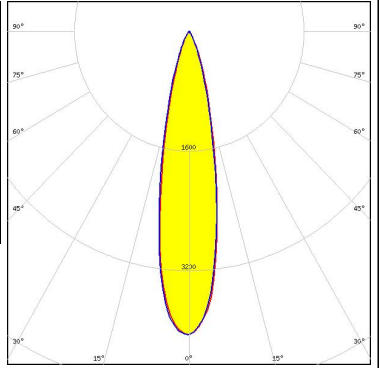
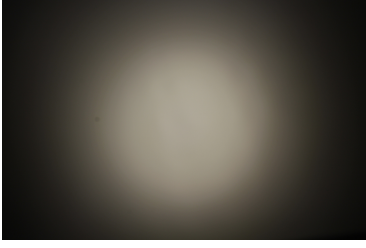
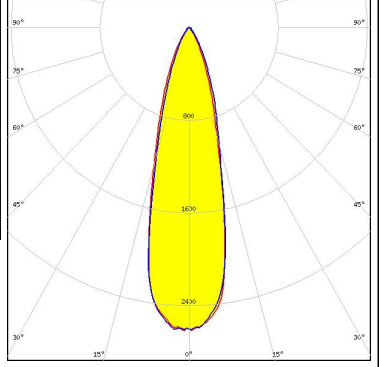
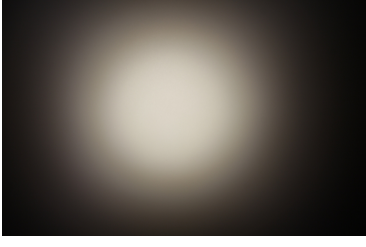
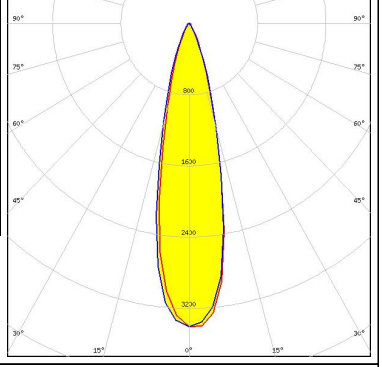
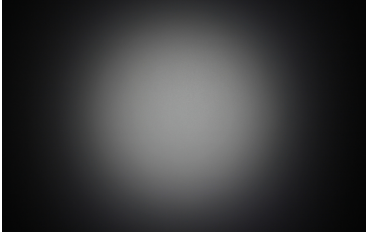
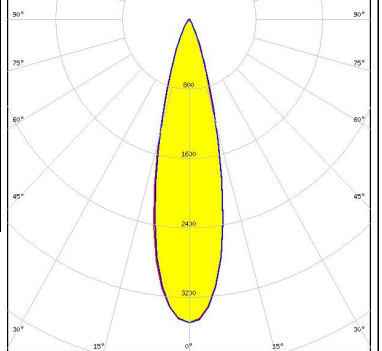
DRAWN BY pl		DATE 20.06.2012		Datasheet Lisa2-clip16-XT series Assy		
CHECKED BY sn		DATE 20.7.2011		SIZE A4	DRAWING NUMBER	REV 1
DESIGNED BY pl		DATE 20.06.2012		SCALE 4:1	WEIGHT (g)	SHEET 1/1

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

#### OPTICAL RESULTS (MEASURED):

<p><b>CREE</b> LEDs</p> <p>LED XP-G2            FWHM / FWTM 25.0° / 47.0°            Efficiency 89 %            Peak intensity 3.5 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>CREE</b> LEDs</p> <p>LED XT-E            FWHM / FWTM 26.0° / 49.0°            Efficiency 89 %            Peak intensity 3.3 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON T            FWHM / FWTM 28.0° / 54.0°            Efficiency 87 %            Peak intensity 2.7 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON TX            FWHM / FWTM 26.0° / 51.0°            Efficiency 88 %            Peak intensity 3.4 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		

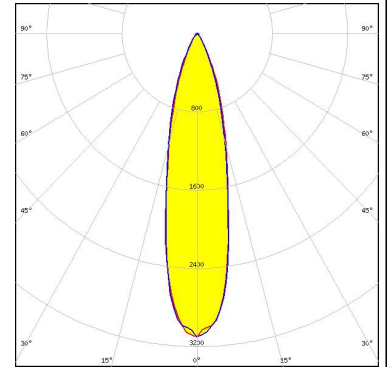
#### OPTICAL RESULTS (MEASURED):

<p><b>NICHIA</b></p> <p>LED NCSxx19B            FWHM / FWTM 23.0° / 46.0°            Efficiency 85 %            Peak intensity 4.1 cd/m            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>NICHIA</b></p> <p>LED NVSxx19B/NVSxx19C            FWHM / FWTM 27.0° / 56.0°            Efficiency 86 %            Peak intensity 2.6 cd/m            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>OSRAM</b>  <small>Opto Semiconductors</small></p> <p>LED OSLO<sup>®</sup> Square EC            FWHM / FWTM 26.0° / 49.0°            Efficiency 85 %            Peak intensity 3.4 cd/m            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>SAMSUNG</b></p> <p>LED LH351Z            FWHM / FWTM 26.0° / 50.0°            Efficiency 87 %            Peak intensity 3.5 cd/m            LEDs/each optic 1            Light colour White            Required components:</p>		

#### OPTICAL RESULTS (SIMULATED):

##### LUMILEDS

LED LUXEON H50-2  
 FWHM / FWTM 24.0° / 52.0°  
 Efficiency 89 %  
 Peak intensity 3.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



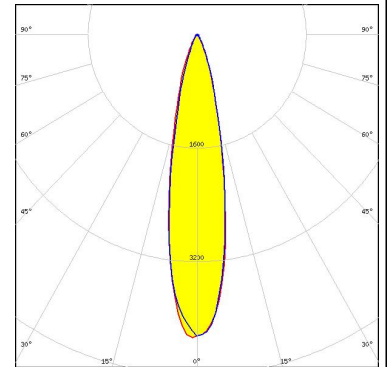
##### LUMILEDS

LED LUXEON IR Compact  
 FWHM / FWTM 14.0° / 29.0°  
 Efficiency 82 %  
 LEDs/each optic 1  
 Light colour White  
 Required components:

##### OSRAM

Opto Semiconductors

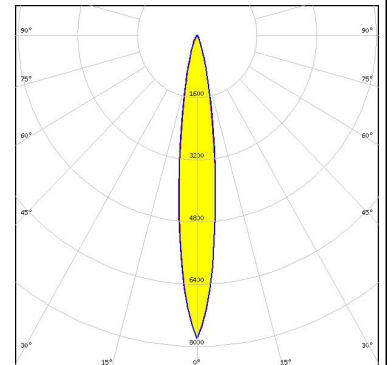
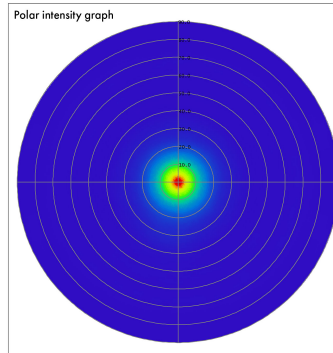
LED OSOLON Square CSSRM2/CSSRM3  
 FWHM / FWTM 21.0° / 44.0°  
 Efficiency 91 %  
 Peak intensity 4.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



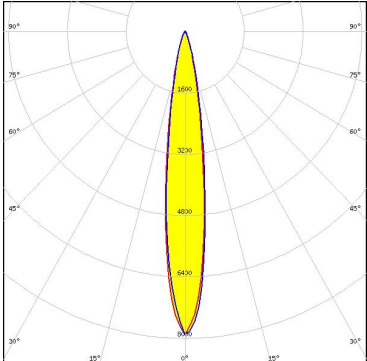
##### OSRAM

Opto Semiconductors

LED SFH 4770S  
 FWHM / FWTM 14.0° / 33.0°  
 Efficiency 90 %  
 LEDs/each optic 1  
 Light colour IR  
 Required components:



### OPTICAL RESULTS (SIMULATED):

<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED Synios P2720 1/2 mm</p> <p>FWHM / FWTM 15.0° / 33.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 7.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p><b>SEOUL SEMICONDUCTOR</b></p> <p>LED Z8Y22P</p> <p>FWHM / FWTM 25.0° / 56.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 2.7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	