

## 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 ⓘ

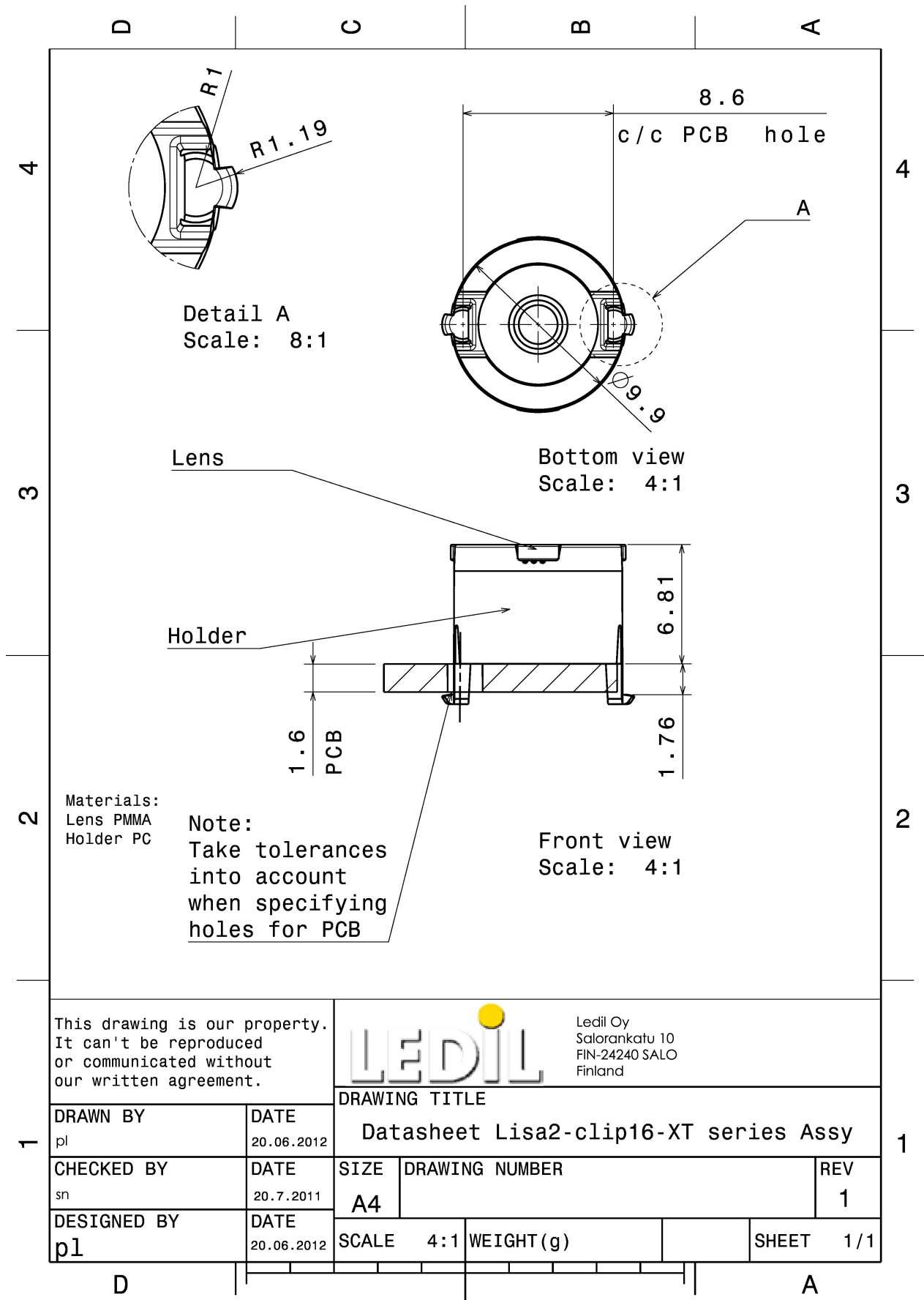


### MATERIALS:

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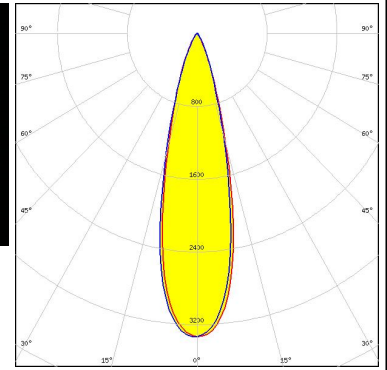
DRAWN BY pl		DATE 20.06.2012	DRAWING TITLE Datasheet Lisa2-clip16-XT series Assy		
CHECKED BY sn	DATE 20.7.2011	SIZE A4	DRAWING NUMBER		REV 1
DESIGNED BY pl	DATE 20.06.2012	SCALE 4:1	WEIGHT (g)	SHEET 1/1	

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

#### OPTICAL RESULTS (MEASURED):

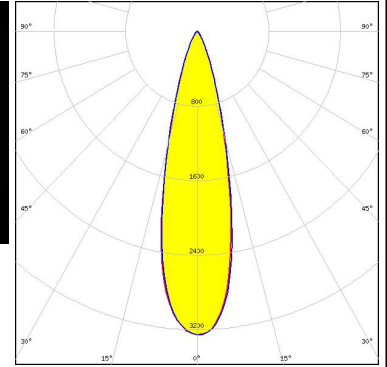
##### CREE LED

LED XP-G2  
 FWHM / FWTM 25.0° / 47.0°  
 Efficiency 89 %  
 Peak intensity 3.5 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



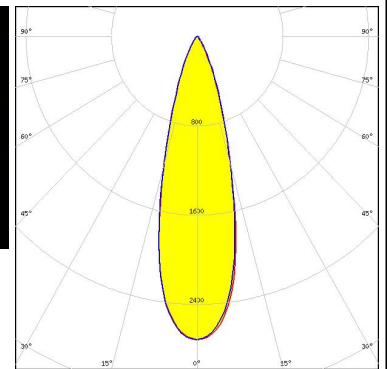
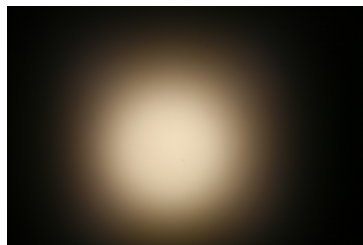
##### CREE LED

LED XT-E  
 FWHM / FWTM 26.0° / 49.0°  
 Efficiency 89 %  
 Peak intensity 3.3 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



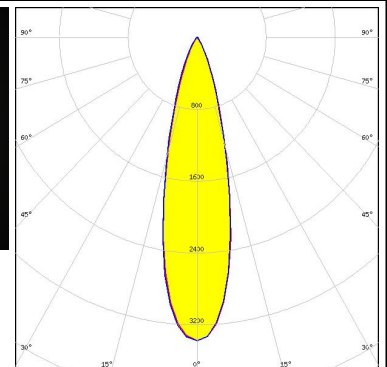
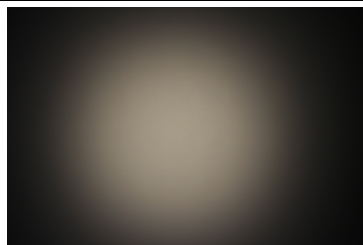
##### LUMILEDS

LED LUXEON T  
 FWHM / FWTM 28.0° / 54.0°  
 Efficiency 87 %  
 Peak intensity 2.7 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:


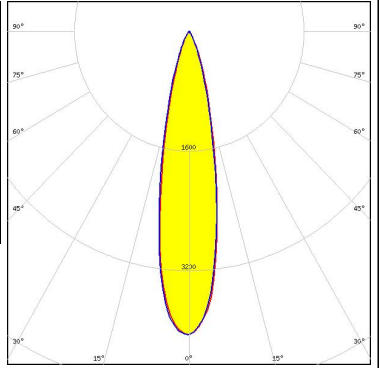
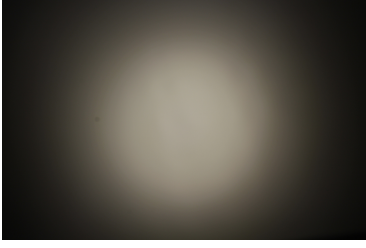
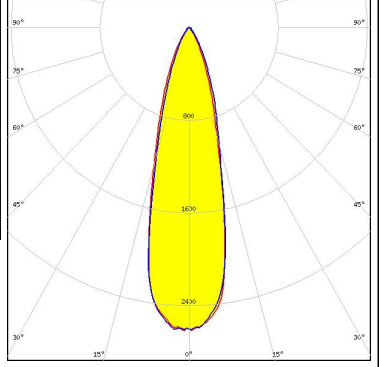
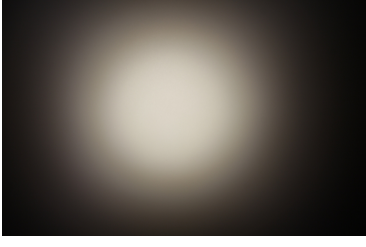
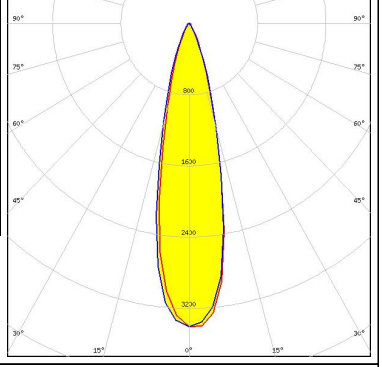
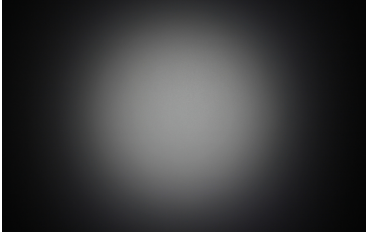
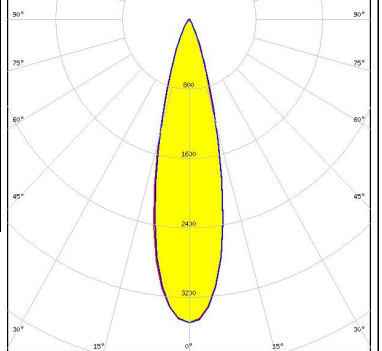


##### LUMILEDS

LED LUXEON TX  
 FWHM / FWTM 26.0° / 51.0°  
 Efficiency 88 %  
 Peak intensity 3.4 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



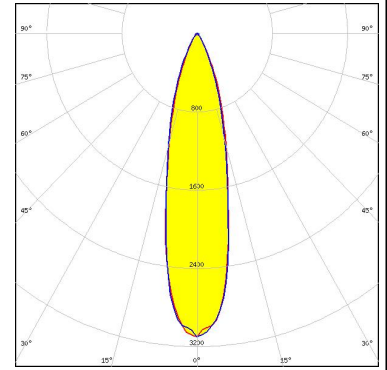
#### OPTICAL RESULTS (MEASURED):

<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 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:



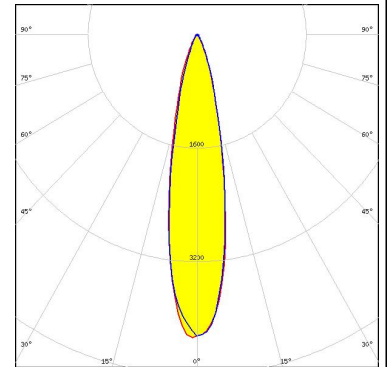
##### LUMILEDS

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

##### OSRAM

Ospto Semiconductors

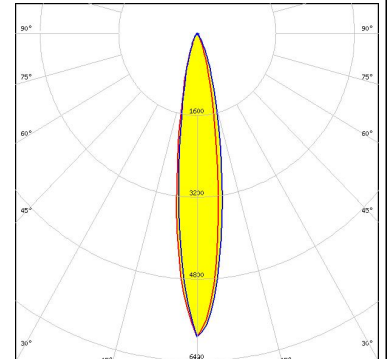
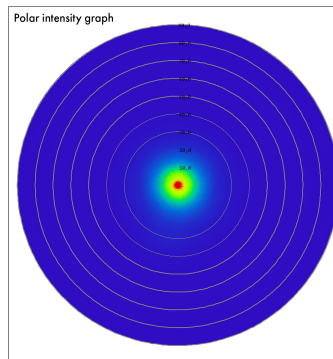
LED OSOLON Square CSSRM2/CSSRM3  
 FWHM / FWTM 21.0° / 44.0°  
 Efficiency 91 %  
 Peak intensity 4.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



##### OSRAM

Ospto Semiconductors

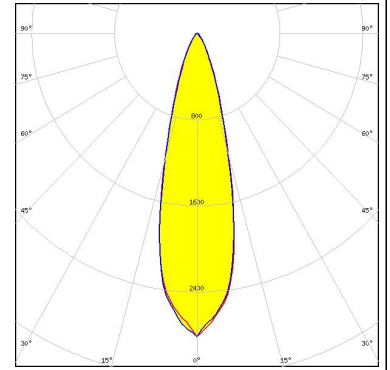
LED SFH 4770S  
 FWHM / FWTM 12.0° / 30.0°  
 Efficiency 90 %  
 LEDs/each optic 1  
 Light colour IR  
 Required components:



### OPTICAL RESULTS (SIMULATED):

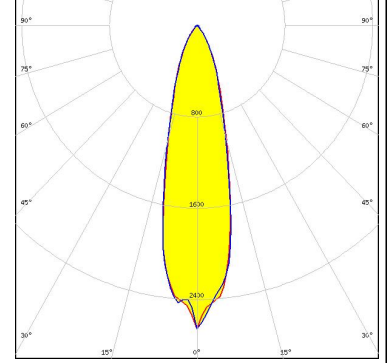
#### SAMSUNG

LED LH351B  
FWHM / FWTM 27.0° / 54.0°  
Efficiency 89 %  
Peak intensity 2.8 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



SEOUL SEMICONDUCTOR

LED Z8Y22P  
FWHM / FWTM 25.0° / 56.0°  
Efficiency 84 %  
Peak intensity 2.7 cd/lm  
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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