

## LISA2-M-PIN

~20° medium beam. 6.8 mm high variant with location pin installation.

### SPECIFICATION:

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

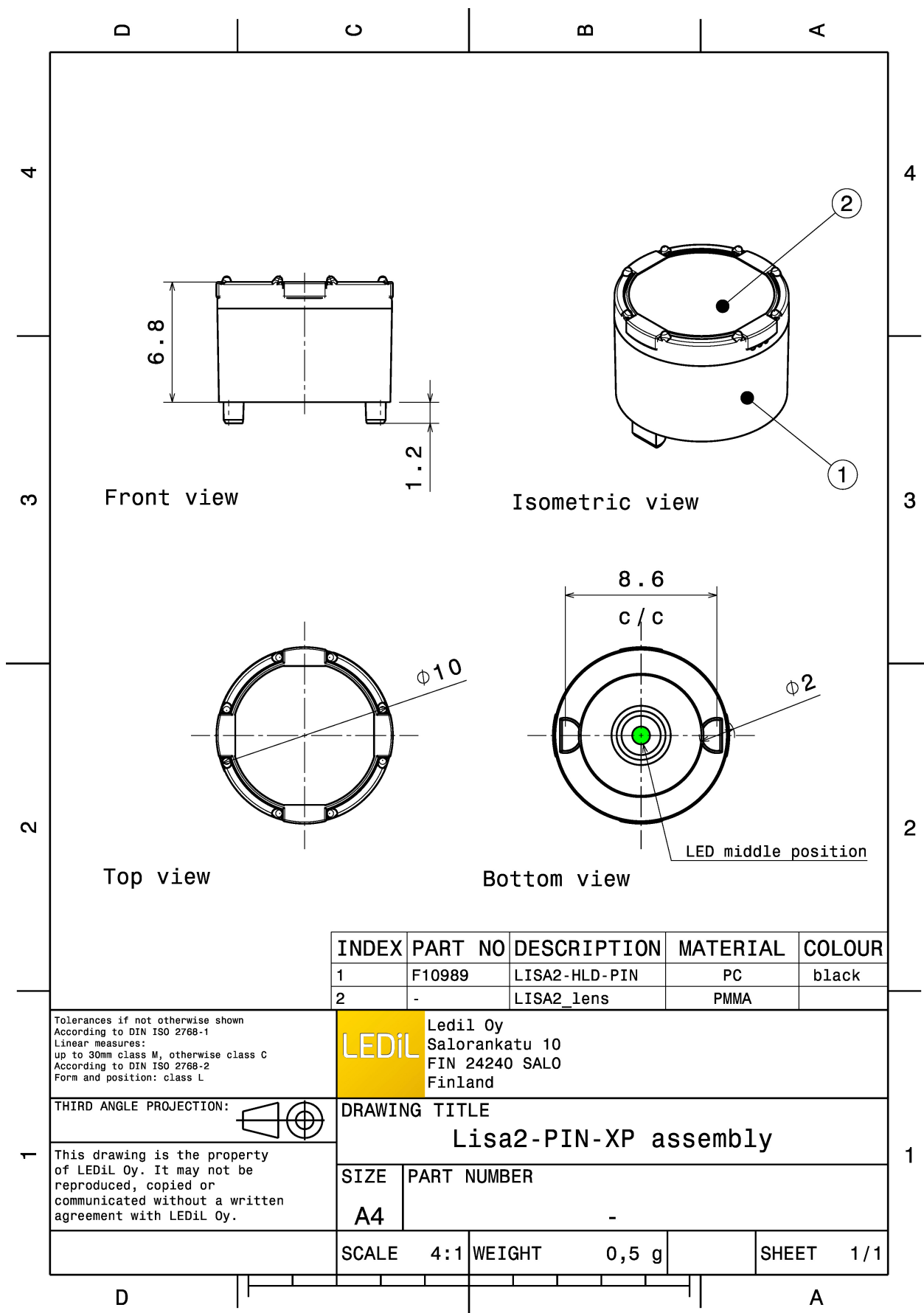


### MATERIALS:

Component	Type	Material	Colour	Finish	Length (mm)
LISA2-M	Single lens	PMMA	clear		
LISA2-HLD-PIN	Holder	PC	black		

### ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FP10995_LISA2-M-PIN	Single lens	2000	300	100	1.4
» Box size: 310 x 230 x 60 mm					

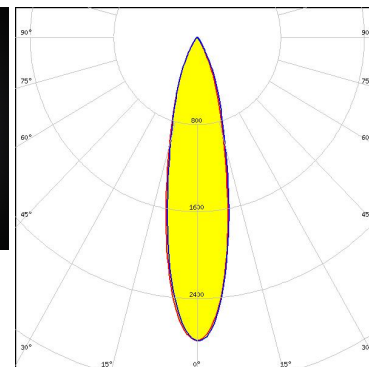
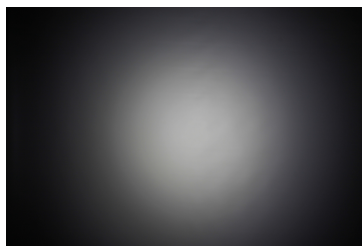


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

#### OPTICAL RESULTS (MEASURED):



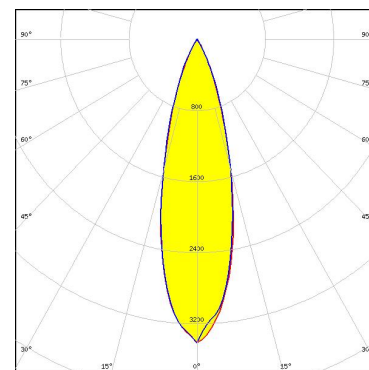
LED XD16  
 FWHM / FWTM 24.0° / 53.0°  
 Efficiency 74 %  
 Peak intensity 2.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



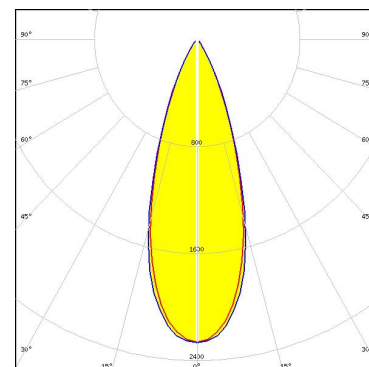
LED XP-E  
 FWHM / FWTM 24.0°  
 Efficiency 92 %  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED XP-G  
 FWHM / FWTM 34.0° / 60.0°  
 Efficiency 91 %  
 Peak intensity 2.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

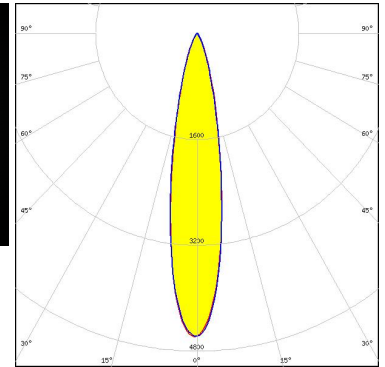


Light distribution files

#### OPTICAL RESULTS (MEASURED):



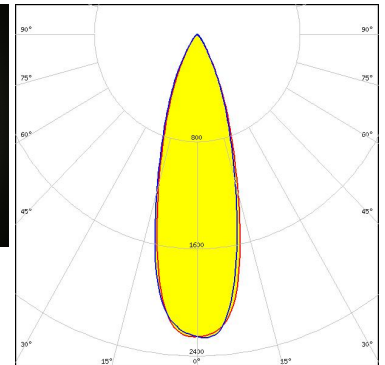
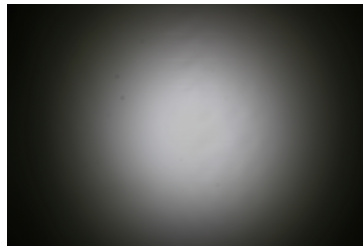
LED XQ-E HI  
 FWHM / FWTM 20.0° / 43.0 + 42.0°  
 Efficiency 85 %  
 Peak intensity 4.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED XT-E  
 FWHM / FWTM 31.0° / 60.0°  
 Efficiency 85 %  
 Peak intensity 2.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



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

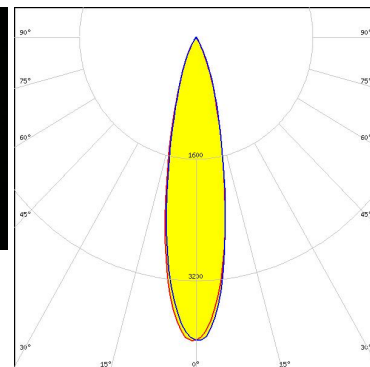


Light distribution files

#### OPTICAL RESULTS (MEASURED):



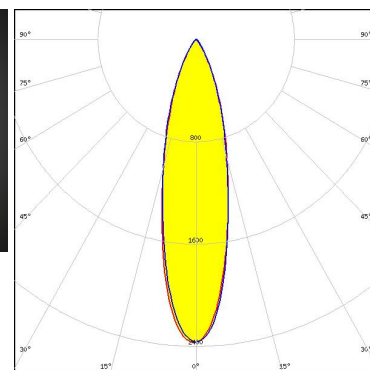
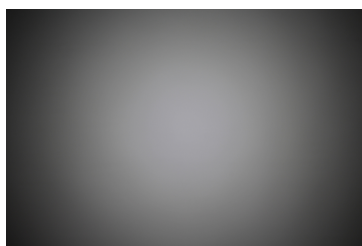
LED LUXEON Z ES  
 FWHM / FWTM 23.0° / 48.0°  
 Efficiency 87 %  
 Peak intensity 4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED NCSxE17A  
 FWHM / FWTM 26.0° / 57.0°  
 Efficiency 74 %  
 Peak intensity 2.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED SFH 4170S  
 FWHM / FWTM 14.0° / 38.0°  
 Efficiency %  
 LEDs/each optic 1  
 Light colour/type IR  
 Required components:

Light distribution files

#### OPTICAL RESULTS (MEASURED):

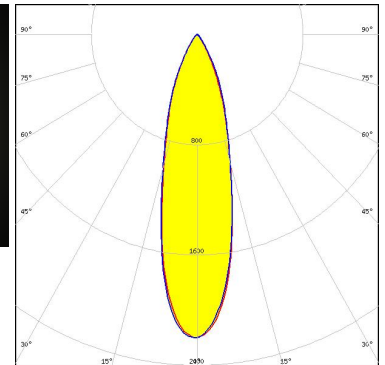
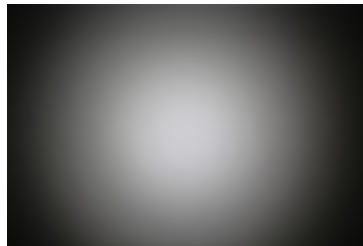
**OSRAM**  
Opto Semiconductors

LED SFH 4180S  
FWHM / FWTM 14.0° / 38.0°  
Efficiency %  
LEDs/each optic 1  
Light colour/type IR  
Required components:

Light distribution files

**SAMSUNG**

LED LH181B  
FWHM / FWTM 27.0° / 59.0°  
Efficiency 74 %  
Peak intensity 2.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**SHARP**

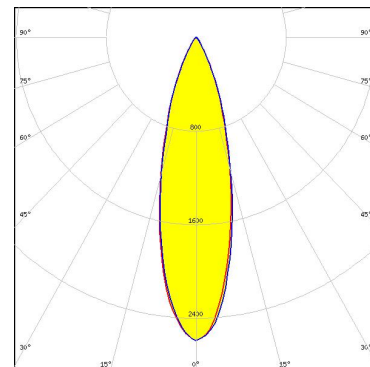
LED Double Dome (GM2BB)  
FWHM / FWTM 28.0°  
Efficiency 88 %  
LEDs/each optic 1  
Light colour/type White  
Required components:

Light distribution files

#### OPTICAL RESULTS (SIMULATED):



LED CSP 2323 (BXCP)  
 FWHM / FWTM 28.0° / 56.0°  
 Efficiency 82 %  
 Peak intensity 2.6 cd/Im  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

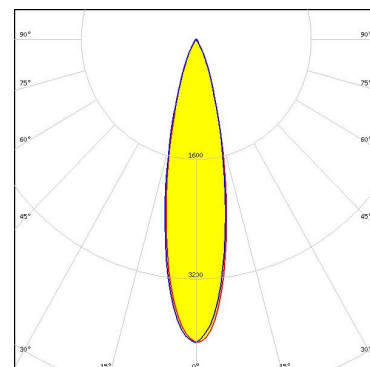


LED XQ-E HD  
 FWHM / FWTM 27.5° / 63.0°  
 Efficiency 91 %  
 Peak intensity 3.1 cd/Im  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

Light distribution files



LED LUXEON IR 2720  
 FWHM / FWTM 23.0° / 47.0°  
 Efficiency 91 %  
 LEDs/each optic 1  
 Light colour/type IR  
 Required components:

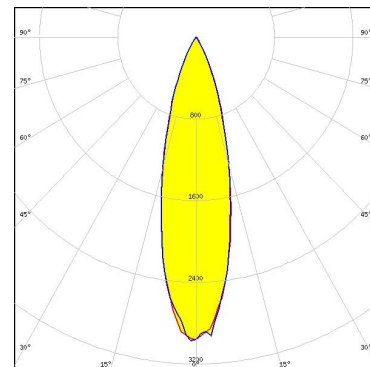


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



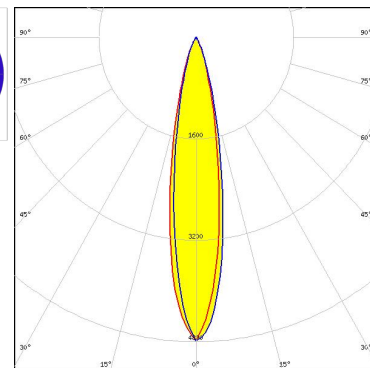
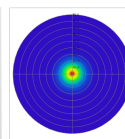
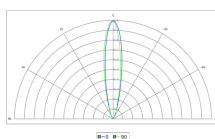
LED NVSxE21A  
 FWHM / FWTM 27.0° / 54.0°  
 Efficiency 86 %  
 Peak intensity 3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



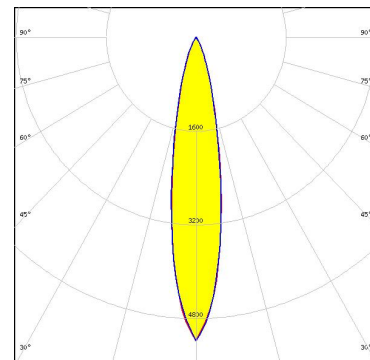
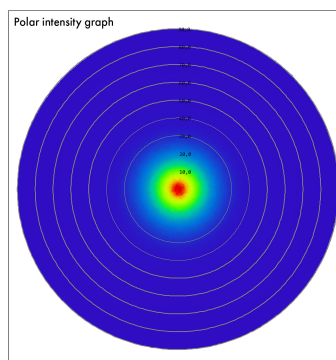
LED SFH 4170S  
 FWHM / FWTM 20.0° / 41.0°  
 Efficiency 79 %  
 LEDs/each optic 1  
 Light colour/type IR  
 Required components:



Light distribution files



LED SFH 4770S  
 FWHM / FWTM 20.0° / 43.0°  
 Efficiency 91 %  
 Peak intensity 5.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type IR  
 Required components:



Light distribution files



### 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:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

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