

LISA2-WW-PIN

~45° wide beam. 7.0 mm high variant with location pin installation.

SPECIFICATION:

| | |
|----------------|-----------|
| Dimensions | Ø 9.9 mm |
| Height | 7 mm |
| Fastening | glue, pin |
| ROHS compliant | yes ⓘ |

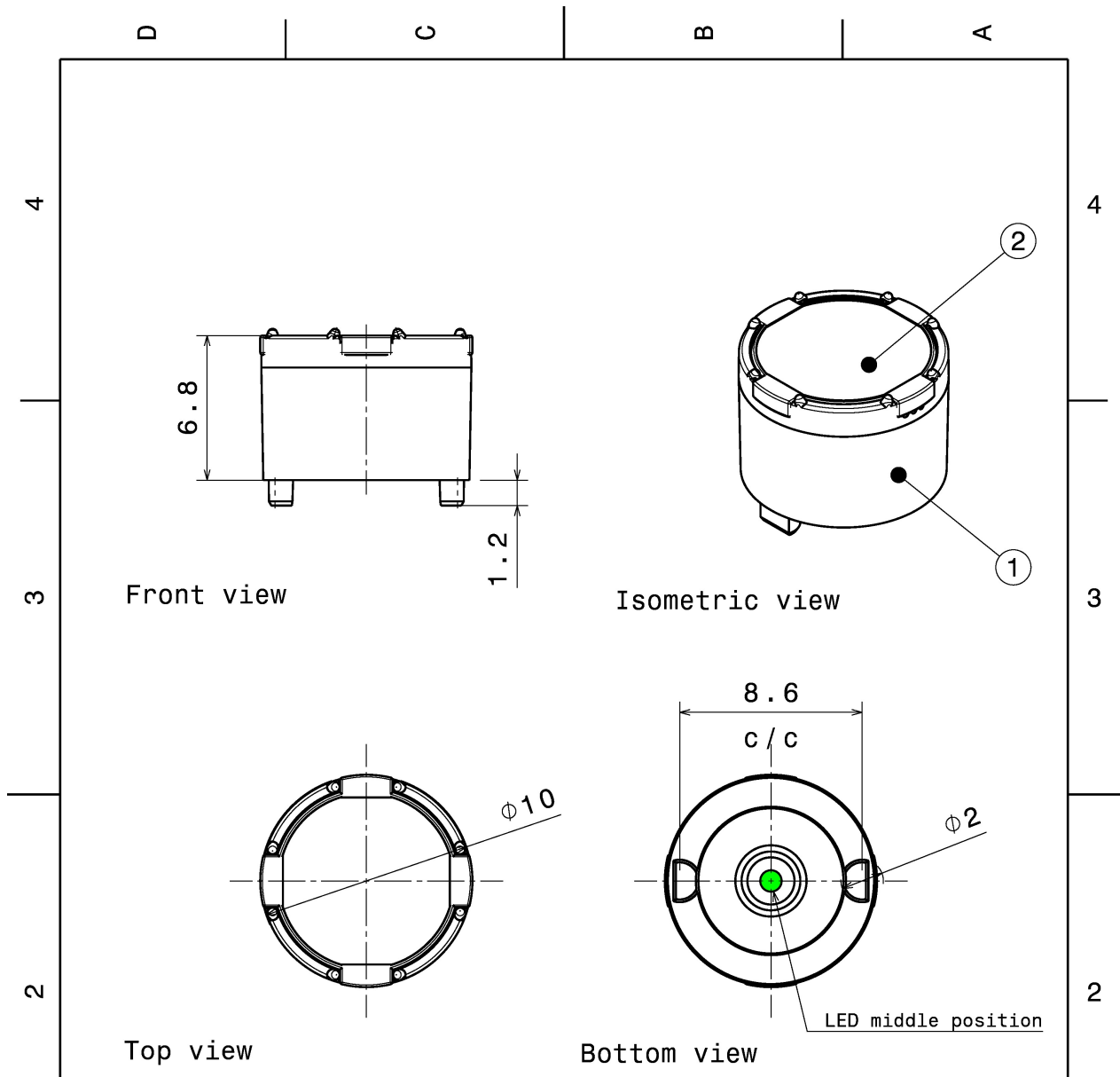


MATERIALS:

| Component | Type | Material | Colour | Finish |
|---------------|-------------|----------|--------|--------|
| LISA2-WW | Single lens | PMMA | clear | |
| LISA2-HLD-PIN | Holder | PC | black | |

ORDERING INFORMATION:

| Component | | Qty in box | MOQ | MPQ | Box weight (kg) |
|-------------------------------|-------------|------------|-----|-----|-----------------|
| FP10997_LISA2-WW-PIN | Single lens | 2000 | 300 | 100 | 1.4 |
| » Box size: 310 x 230 x 60 mm | | | | | |



| INDEX | PART NO | DESCRIPTION | MATERIAL | COLOUR |
|-------|---------|---------------|----------|--------|
| 1 | F10989 | LISA2-HLD-PIN | PC | black |
| 2 | - | LISA2_lens | PMMA | |

Tolerances if not otherwise shown
According to DIN ISO 2768-1
Linear measures:
up to 30mm class M, otherwise class C
According to DIN ISO 2768-2
Form and position: class L

LEDiL Ledil Oy
Salorankatu 10
FIN 24240 SALO
Finland

THIRD ANGLE PROJECTION:

DRAWING TITLE
Lisa2-PIN-XP assembly


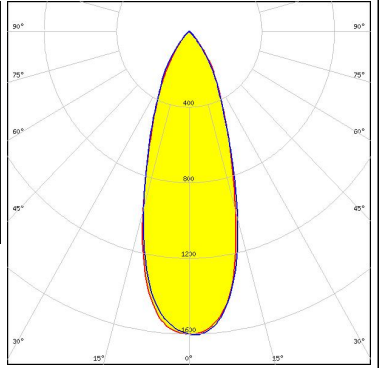

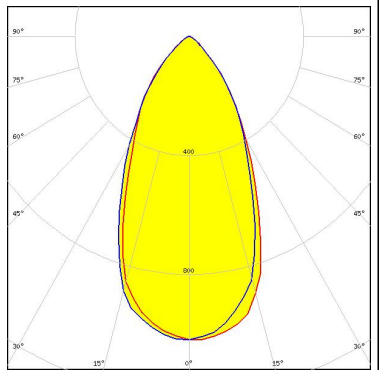

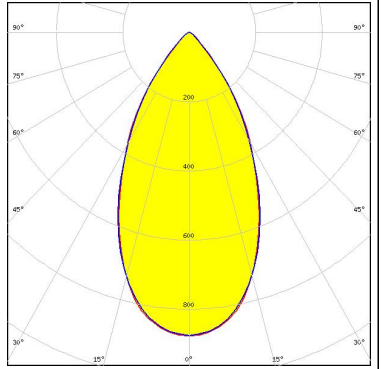
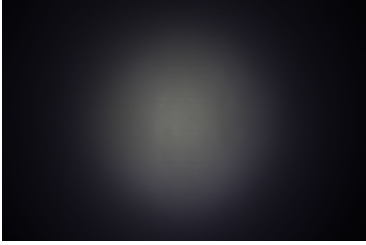
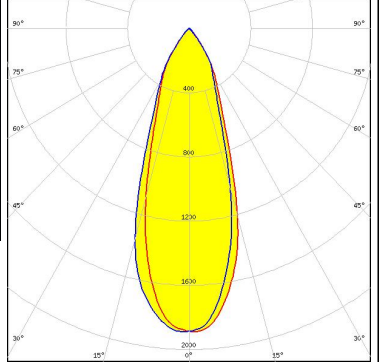
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| SIZE | PART NUMBER |
|------|-------------|
| A4 | - |

| SCALE | 4:1 | WEIGHT | 0,5 g | SHEET | 1/1 |
|-------|-----|--------|-------|-------|-----|
|-------|-----|--------|-------|-------|-----|

See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):

| | | |
|--|--|---|
| <p>CREE LEDs</p> <p>LED XD16 FWHM / FWTM 35.0° / 72.0° Efficiency 78 % Peak intensity 1.6 cd/lm LEDs/each optic 1 Light colour White Required components:</p> |  |  |
| <p>CREE LEDs</p> <p>LED XP-E FWHM / FWTM 42.0° / 78.0° Efficiency 91 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White Required components:</p> |  |  |
| <p>CREE LEDs</p> <p>LED XP-G FWHM / FWTM 54.0° / 88.0° Efficiency 90 % Peak intensity 0.9 cd/lm LEDs/each optic 1 Light colour White Required components:</p> |  |  |
| <p>LUMILEDS</p> <p>LED LUXEON C FWHM / FWTM 34.0° / 72.0° Efficiency 88 % Peak intensity 1.9 cd/lm LEDs/each optic 1 Light colour White Required components:</p> |  |  |

OPTICAL RESULTS (MEASURED):

LUMILEDS

LED LUXEON Rebel ES
 FWHM / FWTM 56.0° / 88.0°
 Efficiency 93 %
 LEDs/each optic 1
 Light colour White
 Required components:

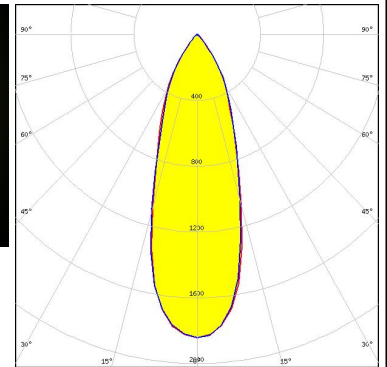
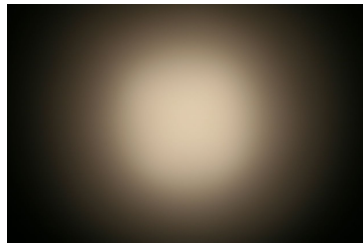
LUMILEDS

LED LUXEON Z
 FWHM / FWTM 28.0° / 70.0°
 Efficiency 87 %
 Peak intensity 2.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



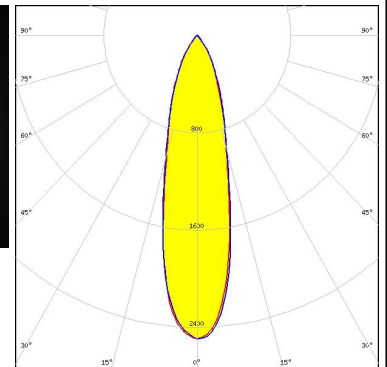
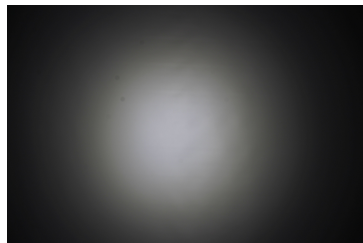
LUMILEDS

LED LUXEON Z ES
 FWHM / FWTM 35.0° / 73.0°
 Efficiency 88 %
 Peak intensity 1.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



NICHIA

LED NCSxE17A
 FWHM / FWTM 25.0° / 62.0°
 Efficiency 82 %
 Peak intensity 2.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

LED SFH 4170S
FWHM / FWTM 25.0° / 69.0°
Efficiency %
LEDs/each optic 1
Light colour IR
Required components:

OSRAM
Opto Semiconductors

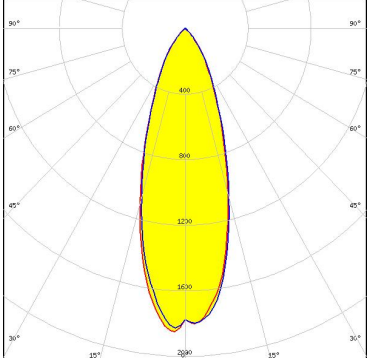
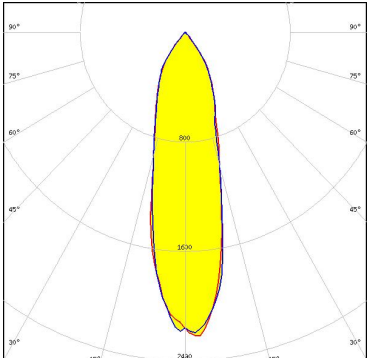
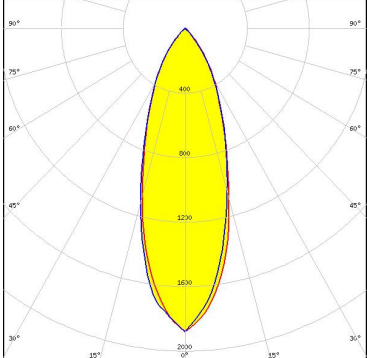
LED SFH 4180S
FWHM / FWTM 25.0° / 68.0°
Efficiency %
LEDs/each optic 1
Light colour IR
Required components:

SAMSUNG

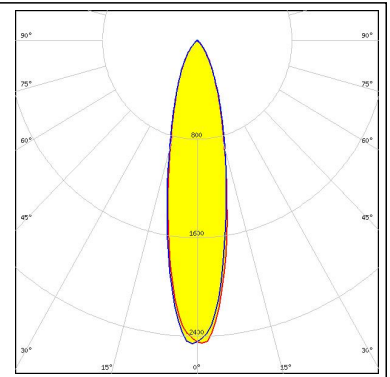
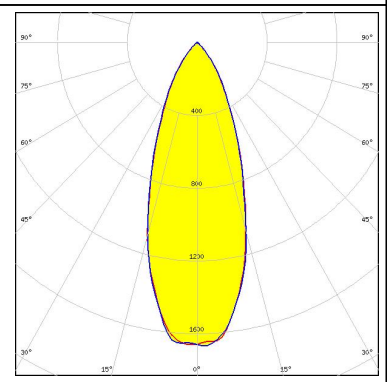
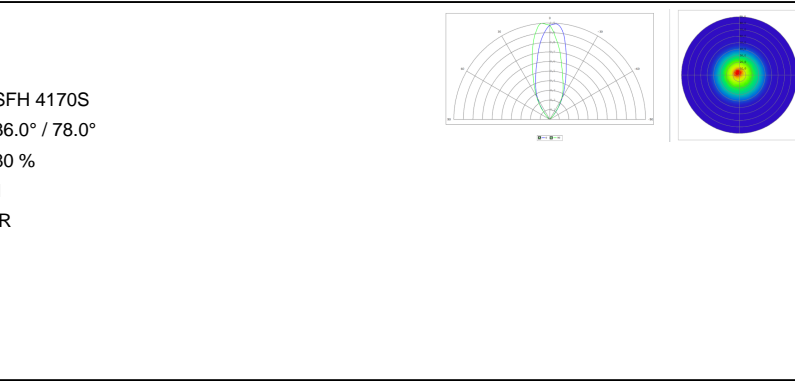
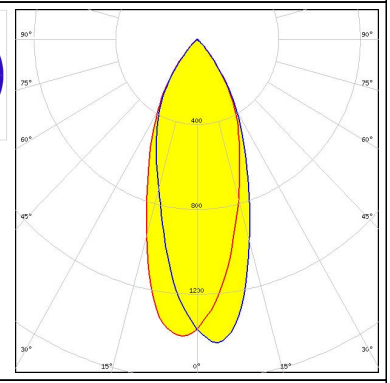
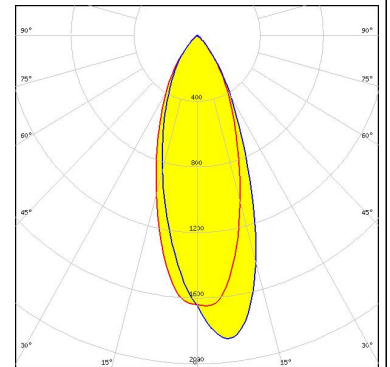
LED LH181B
FWHM / FWTM 34.0° / 69.0°
Efficiency 81 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OPTICAL RESULTS (SIMULATED):

| | |
|--|---|
| <p>bridgelux.</p> <p>LED CSP 2323 (BXCP)</p> <p>FWHM / FWTM 34.0° / 72.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 1.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> |  |
| <p>CREE LEDs</p> <p>LED XQ-E HD</p> <p>FWHM / FWTM 72.0° / 99.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 0.7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> | |
| <p>CREE LEDs</p> <p>LED XQ-E HI</p> <p>FWHM / FWTM 27.0° / 72.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 2.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> |  |
| <p>LUMILEDS</p> <p>LED LUXEON IR 2720</p> <p>FWHM / FWTM 35.0° / 75.0°</p> <p>Efficiency 93 %</p> <p>LEDs/each optic 1</p> <p>Light colour IR</p> <p>Required components:</p> |  |

OPTICAL RESULTS (SIMULATED):

| | | |
|---|--|---|
| <p>LUMILEDS</p> <p>LED: LUXEON IR 2720 FWHM / FWTM: 24.0° / 60.0° Efficiency: 74 % LEDs/each optic: 1 Light colour: IR Required components:</p> | |  |
| <p>NICHIA</p> <p>LED: NVSxE21A FWHM / FWTM: 37.0° / 75.0° Efficiency: 88 % Peak intensity: 1.7 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p> | |  |
| <p>OSRAM <small>Opto Semiconductors</small></p> <p>LED: SFH 4170S FWHM / FWTM: 36.0° / 78.0° Efficiency: 80 % LEDs/each optic: 1 Light colour: IR Required components:</p> |  |  |
| <p>OSRAM <small>Opto Semiconductors</small></p> <p>LED: SFH 4770S FWHM / FWTM: 34.0° / 75.0° Efficiency: 92 % Peak intensity: 1.9 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p> | |  |

OPTICAL RESULTS (SIMULATED):

SHARP

| | |
|----------------------|---------------------|
| LED | Double Dome (GM2BB) |
| FWHM / FWTM | 60.0° |
| 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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