## LARISA-O-CLIP16

**~40° x 20° oval beam. Clip fastening for 1.6 mm thick PCB.**

### SPECIFICATION:

| | |
|---|---|
| Dimensions | 9.9 x 9.9 mm |
| Height | 7.5 mm |
| Fastening | clips |
| ROHS compliant | yes ⓘ |

### MATERIALS:

| Component | Type | Material | Colour | Finish |
|---|---|---|---|---|
| LARISA-O | Single lens | PMMA | clear | |
| LARISA-HOLDER-CLIP16 | Holder | PC | black | |
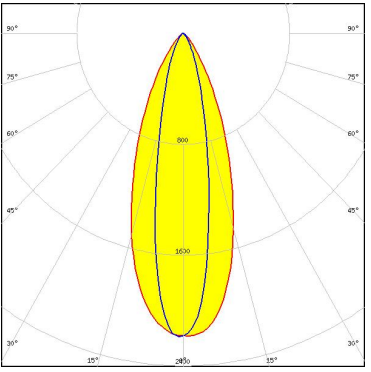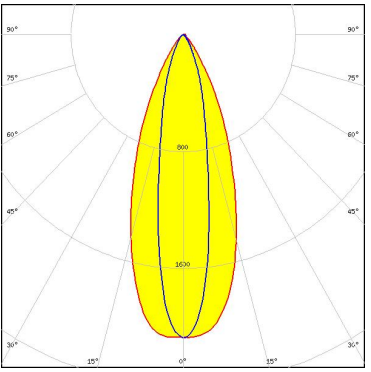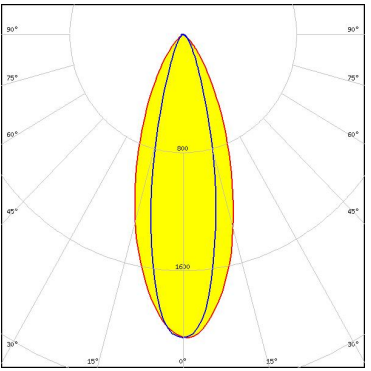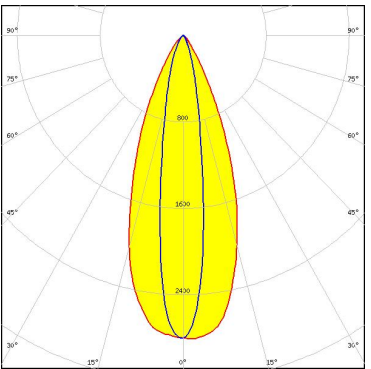
### ORDERING INFORMATION:

| Component | | Qty in box | MOQ | MPQ | Box weight (kg) |
|---|---|---|---|---|---|
| CP12943_LARISA-O-CLIP16 | Single lens | 10000 | 300 | 100 | 6.6 |

» Box size: 300 x 250 x 250 mm

Designed for the following pin hole dimensions: Hole diameter 1.95mm
Hole distance 8.6mm
PCB thickness 1.6mm

7.5

2.7

Front view

Isometric view
Scale: 4:1

9.9

9.9

Top view

8.6

c/c

ϕ2

Oval beam direction

Bottom view

| INDEX | PART NO | DESCRIPTION | MATERIAL | COLOUR |
|-------|---------|-------------|----------|--------|
| 1 | - | LARISA lens | PMMA | |
| 2 | C12908 | LARISA-HOLDER-CLIP16 | PC | black |

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 Oy
Salorankatu 10
FIN 24240 SALO
Finland

THIRD ANGLE PROJECTION:

DRAWING TITLE
LARISA-CLIP16 series

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

| SCALE 4:1 | WEIGHT 0,6 g | SHEET 1/1 |

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

## OPTICAL RESULTS (MEASURED):

**CREE LEDs**

| | |
|---|---|
| LED | XB-D |
| FWHM / FWTM | 39.0 + 21.0° / 73.0 + 49.0° |
| Efficiency | 80 % |
| Peak intensity | 2.2 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



**CREE LEDs**

| | |
|---|---|
| LED | XD16 |
| FWHM / FWTM | 40.0 + 20.0° / 72.0 + 51.0° |
| Efficiency | 75 % |
| Peak intensity | 2.1 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



**CREE LEDs**

| | |
|---|---|
| LED | XP-G |
| FWHM / FWTM | 39.0 + 25.0° / 76.0 + 51.0° |
| Efficiency | 83 % |
| Peak intensity | 2.1 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



**CREE LEDs**

| | |
|---|---|
| LED | XQ-E HD |
| FWHM / FWTM | 40.0 + 17.0° / 68.0 + 42.0° |
| Efficiency | 82 % |
| Peak intensity | 2.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

## OPTICAL RESULTS (MEASURED):

### CREE LEDs

| | |
|---|---|
| LED | XQ-E HI |
| FWHM / FWTM | 43.0 + 14.0° / 64.0 + 36.0° |
| Efficiency | 74 % |
| Peak intensity | 3.2 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

### LUMILEDS

| | |
|---|---|
| LED | LUXEON A |
| FWHM / FWTM | 39.0 + 26.0° / 78.0 + 55.0° |
| Efficiency | 81 % |
| Peak intensity | 1.9 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

### LUMILEDS
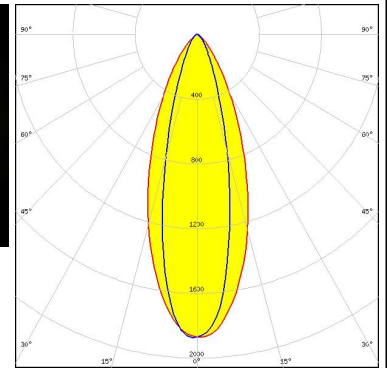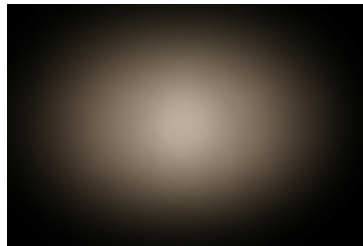
| | |
|---|---|
| LED | LUXEON C |
| FWHM / FWTM | 40.0 + 18.0° / 69.0 + 43.0° |
| Efficiency | 79 % |
| Peak intensity | 2.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |
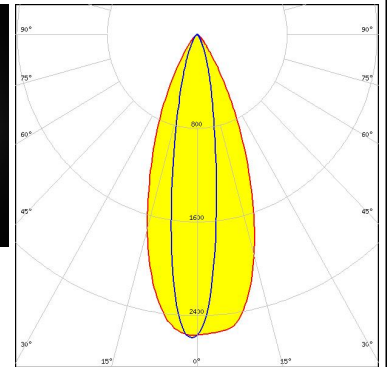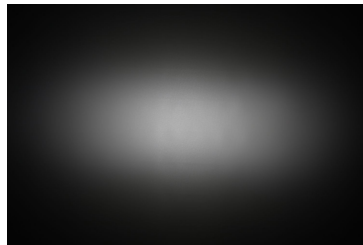
### LUMILEDS

| | |
|---|---|
| LED | LUXEON Rebel |
| FWHM / FWTM | 40.0 + 18.0° / 70.0 + 42.0° |
| Efficiency | 84 % |
| Peak intensity | 2.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |
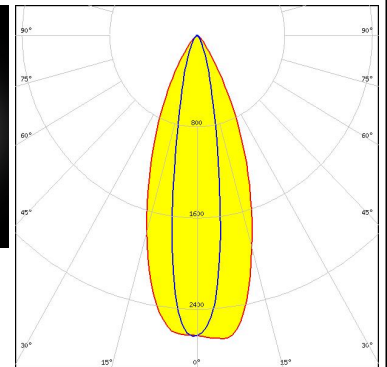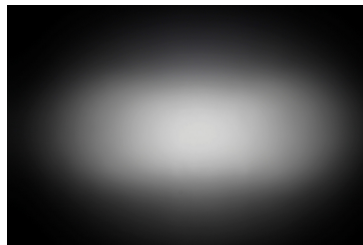
## OPTICAL RESULTS (MEASURED):

### LUMILEDS

| | |
|---|---|
| LED | LUXEON Rebel ES |
| FWHM / FWTM | 39.0 + 25.0° / 77.0 + 54.0° |
| Efficiency | 82 % |
| Peak intensity | 1.9 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |
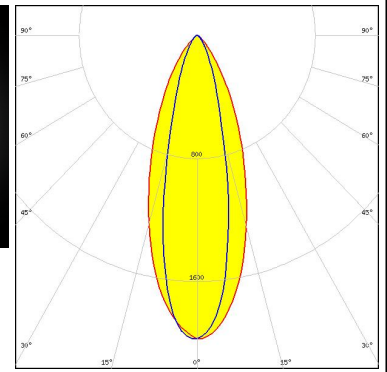


### LUMILEDS

| | |
|---|---|
| LED | LUXEON Rebel Plus |
| FWHM / FWTM | 40.0 + 19.0° / 69.0 + 46.0° |
| Efficiency | 83 % |
| Peak intensity | 2.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |
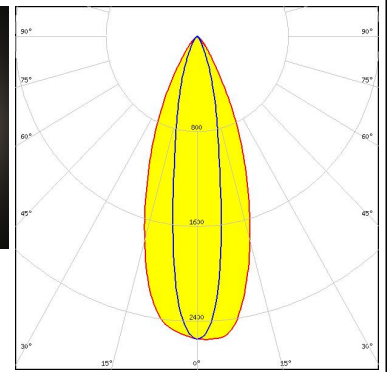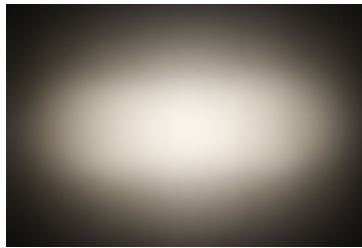


### LUMILEDS

| | |
|---|---|
| LED | LUXEON Z |
| FWHM / FWTM | 41.0 + 14.0° / 62.0 + 360.0° |
| Efficiency | 81 % |
| Peak intensity | 3.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |
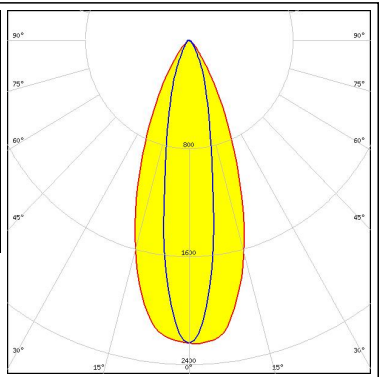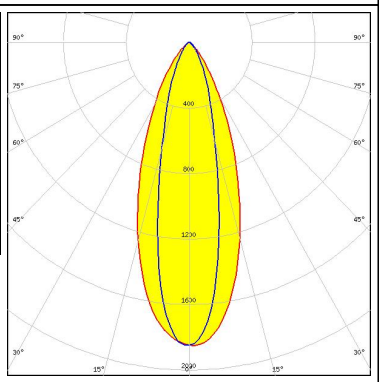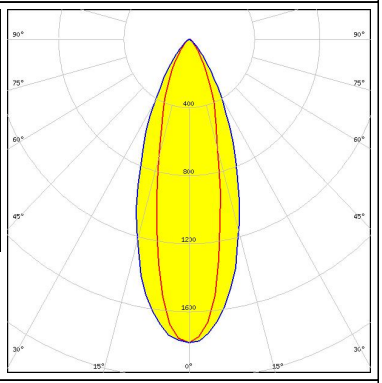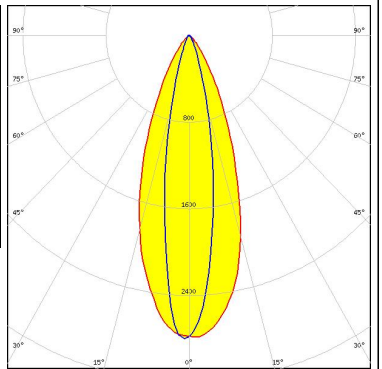


### LUMILEDS

| | |
|---|---|
| LED | LUXEON Z ES |
| FWHM / FWTM | 40.0 + 18.0° / 68.0 + 44.0° |
| Efficiency | 86 % |
| Peak intensity | 2.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

## OPTICAL RESULTS (MEASURED):

**NICHIA**

| | |
|---|---|
| LED | NCSxx19A |
| FWHM / FWTM | 41.0 + 19.0° / 71.0 + 50.0° |
| Efficiency | 81 % |
| Peak intensity | 2.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

**NICHIA**

| | |
|---|---|
| LED | NVSxx19A |
| FWHM / FWTM | 40.0 + 24.0° / 77.0 + 57.0° |
| Efficiency | 79 % |
| Peak intensity | 1.9 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

**OSRAM** Opto Semiconductors

| | |
|---|---|
| LED | Duris S5 (2 chip) |
| FWHM / FWTM | 26.0 + 41.0° / 63.0 + 77.0° |
| Efficiency | 79 % |
| Peak intensity | 1.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

**OSRAM** Opto Semiconductors

| | |
|---|---|
| LED | OSLON SSL 150 |
| FWHM / FWTM | 39.0 + 19.0° / 70.0 + 40.0° |
| Efficiency | 84 % |
| Peak intensity | 2.9 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

## OPTICAL RESULTS (MEASURED):

**OSRAM**
Opto Semiconductors

| | |
|---|---|
| LED | OSLON SSL 80 |
| FWHM / FWTM | 40.0 + 17.0° / 70.0 + 48.0° |
| Efficiency | 77 % |
| Peak intensity | 2.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |
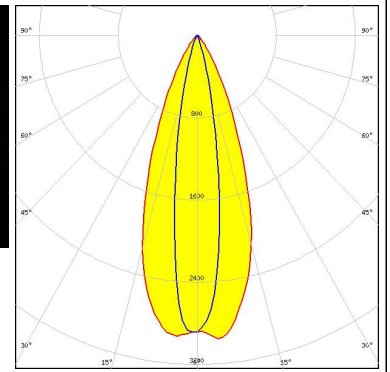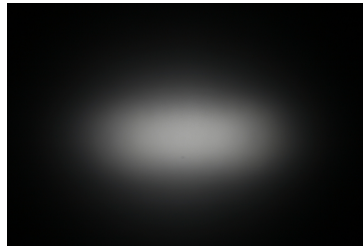
## OPTICAL RESULTS (SIMULATED):

**CREE LEDs**

| | |
|---|---|
| LED | XP-E |
| FWHM / FWTM | 39.0 + 17.0° |
| Efficiency | 89 % |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |