# LARISA-W-CLIP8

**~50° wide beam. Clip fastening for 0.8 mm thick PCB**

## SPECIFICATION:

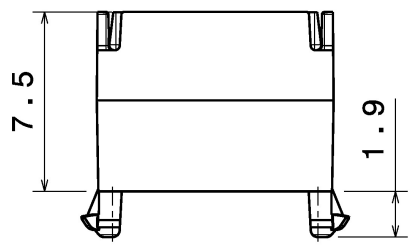
| | |
|---|---|
| Dimensions | 9.9 x 9.9 |
| Height | 7.5 mm |
| Fastening | glue, clips |
| ROHS compliant | yes |

## MATERIALS:

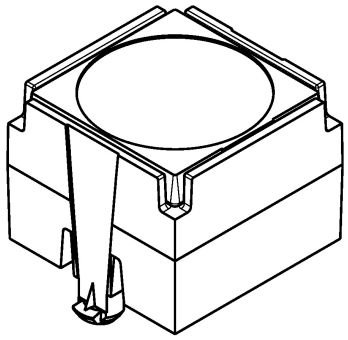
| Component | Type | Material | Colour | Finish | Length (mm) |
|---|---|---|---|---|---|
| LARISA-W | Single lens | PMMA | clear | | |
| LARISA-HOLDER-CLIP8 | Holder | PC | black | | |

## ORDERING INFORMATION:

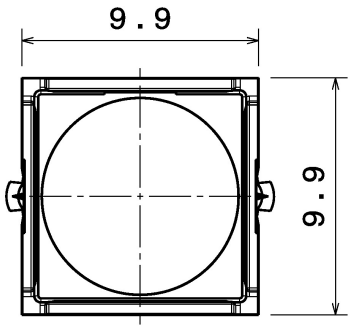
| Component | | Qty in box | MOQ | MPQ | Box weight (kg) |
|---|---|---|---|---|---|
| CP12944_LARISA-W-CLIP8<br>» Box size: 300 x 250 x 250 mm | Single lens | 10000 | 300 | 100 | 6.6 |



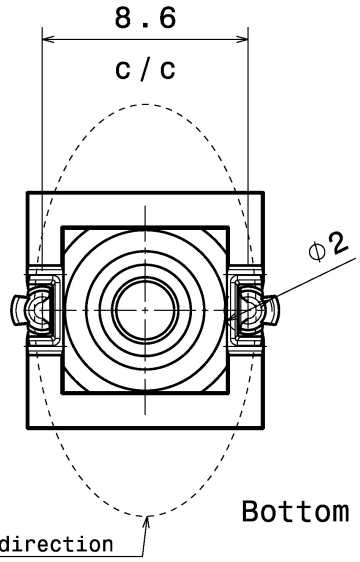

Front view



Isometric view
Scale: 4:1




Top view




Bottom view

Oval beam direction

| INDEX | PART NO | DESCRIPTION | MATERIAL | COLOUR |
|---|---|---|---|---|
| 1 | - | LARISA lens | PMMA | |
| 2 | C12907 | LARISA-HOLDER-CLIP8 | 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-CLIP8



SIZE A4 | PART NUMBER -

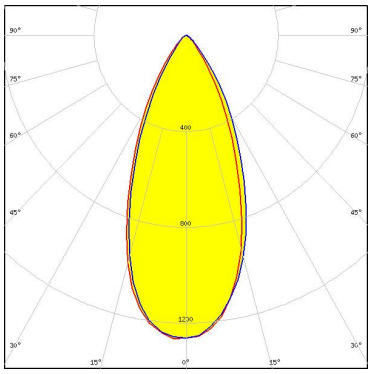
SCALE 4:1 | WEIGHT 0,6 g | SHEET 1/1

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

## OPTICAL RESULTS (MEASURED):

CREE LEDs

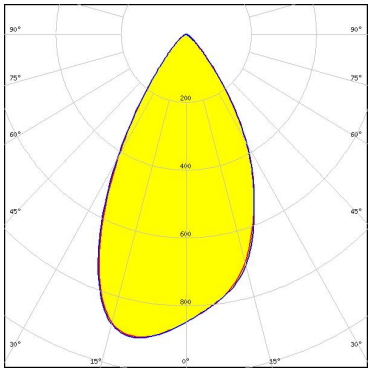
| | |
|---|---|
| LED | XB-D |
| FWHM / FWTM | 45.0° / 78.0° |
| Efficiency | 84 % |
| Peak intensity | 1.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

CREE LEDs

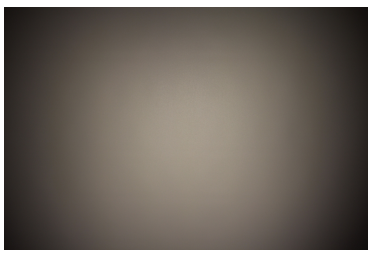
| | |
|---|---|
| LED | XD16 |
| FWHM / FWTM | 56.0° / 86.0° |
| Efficiency | 80 % |
| Peak intensity | 0.9 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

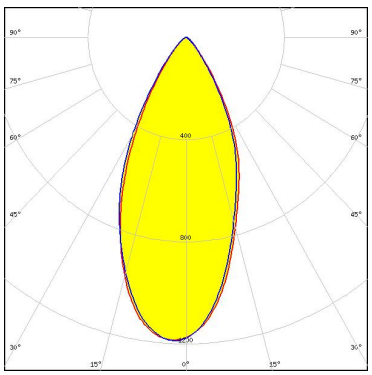


Light distribution files

CREE LEDs

| | |
|---|---|
| LED | XQ-E HD |
| FWHM / FWTM | 46.0° / 80.0° |
| Efficiency | 84 % |
| Peak intensity | 1.2 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



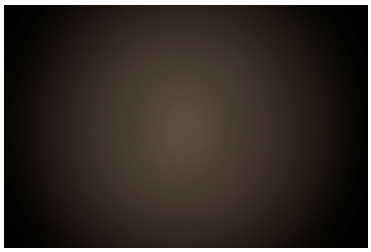


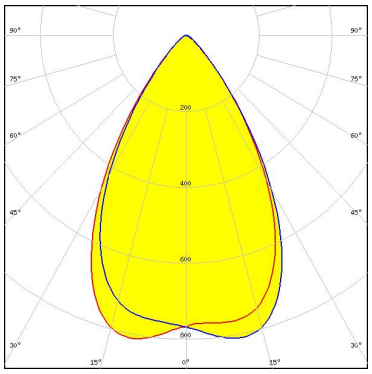
Light distribution files

## OPTICAL RESULTS (MEASURED):

LUMILEDS

| | |
|---|---|
| LED | LUXEON A |
| FWHM / FWTM | 63.0° / 91.0° |
| Efficiency | 86 % |
| Peak intensity | 0.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

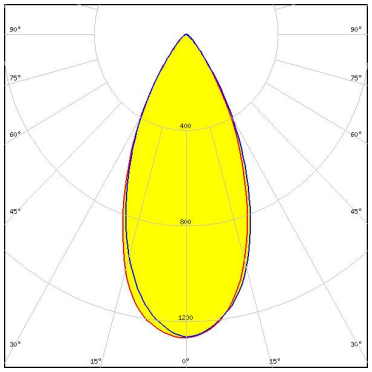




Light distribution files

LUMILEDS

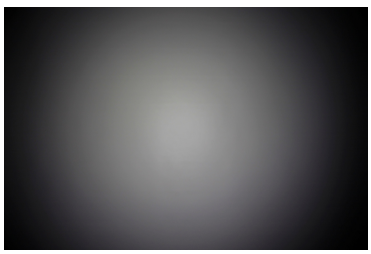
| | |
|---|---|
| LED | LUXEON Rebel |
| FWHM / FWTM | 47.0° / 78.0° |
| Efficiency | 88 % |
| Peak intensity | 1.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

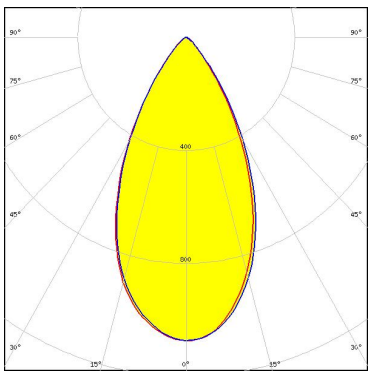


Light distribution files

LUMILEDS

| | |
|---|---|
| LED | LUXEON Rebel ES |
| FWHM / FWTM | 52.0° / 85.0° |
| Efficiency | 87 % |
| Peak intensity | 1.1 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |





Light distribution files

## OPTICAL RESULTS (MEASURED):

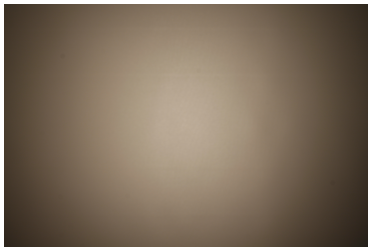
LUMILEDS

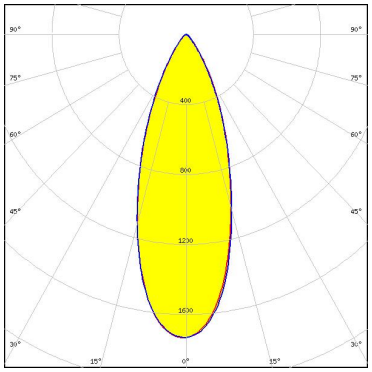
| | |
|---|---|
| LED | LUXEON Z |
| FWHM / FWTM | 32.0° / 68.0° |
| Efficiency | 85 % |
| Peak intensity | 2.1 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

Light distribution files

LUMILEDS

| | |
|---|---|
| LED | LUXEON Z ES |
| FWHM / FWTM | 37.0° / 69.0° |
| Efficiency | 88 % |
| Peak intensity | 1.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

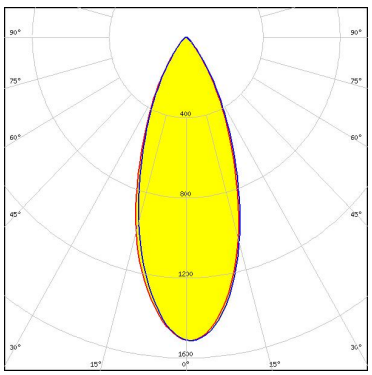




Light distribution files

NICHIA

| | |
|---|---|
| LED | NCSxx19A |
| FWHM / FWTM | 39.0° / 73.0° |
| Efficiency | 85 % |
| Peak intensity | 1.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

## OPTICAL RESULTS (MEASURED):

NICHIA

| | |
|---|---|
| LED | NF2x757A |
| FWHM / FWTM | 37.0° / 72.0° |
| Efficiency | 84 % |
| Peak intensity | 1.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

Light distribution files

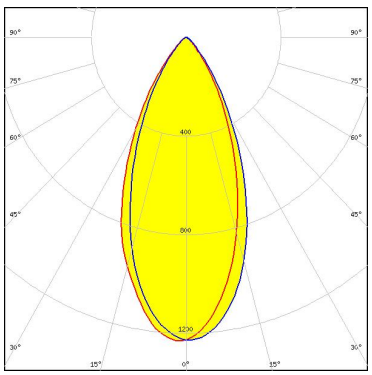
NICHIA

| | |
|---|---|
| LED | NF2x757G |
| FWHM / FWTM | 40.0° / 75.0° |
| Efficiency | 83 % |
| Peak intensity | 1.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

Light distribution files

NICHIA

| | |
|---|---|
| LED | NVSxx19A |
| FWHM / FWTM | 45.0° / 80.0° |
| Efficiency | 84 % |
| Peak intensity | 1.2 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

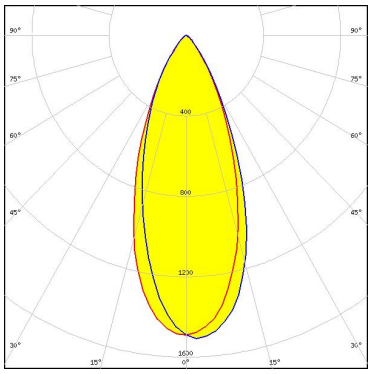


Light distribution files

## OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

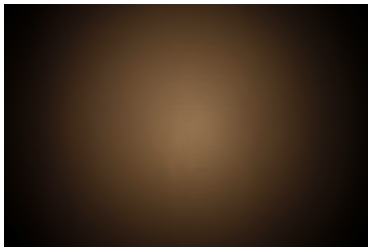
| | |
|---|---|
| LED | Duris S5 (2 chip) |
| FWHM / FWTM | 41.0° / 76.0° |
| Efficiency | 85 % |
| Peak intensity | 1.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

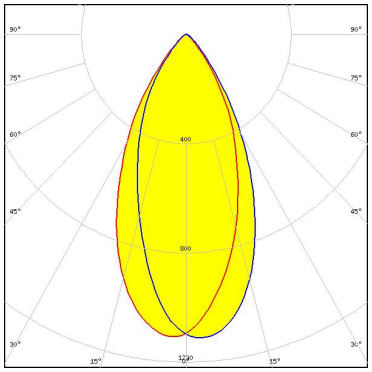


Light distribution files

OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | OSLON Square EC |
| FWHM / FWTM | 46.0° / 83.0° |
| Efficiency | 82 % |
| Peak intensity | 1.1 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |





Light distribution files

OSRAM
Opto Semiconductors

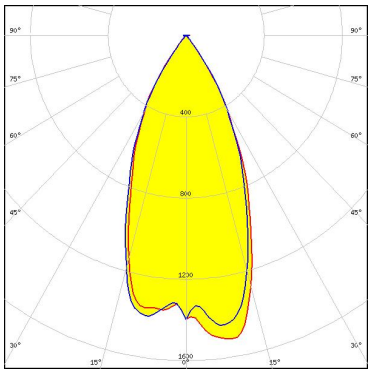
| | |
|---|---|
| LED | OSLON SSL 150 |
| FWHM / FWTM | 55.0° / 81.0° |
| Efficiency | 86 % |
| Peak intensity | 1.2 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

Light distribution files

## OPTICAL RESULTS (SIMULATED):

CREE LEDs

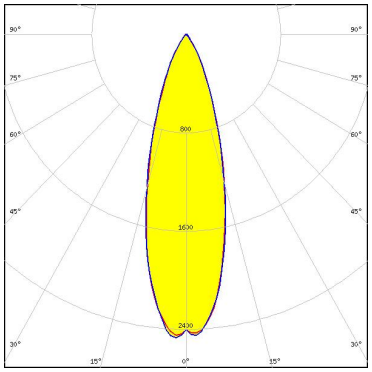
| | |
|---|---|
| LED | XQ-E HI |
| FWHM / FWTM | 47.0° / 73.0° |
| Efficiency | 94 % |
| Peak intensity | 1.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

NICHIA

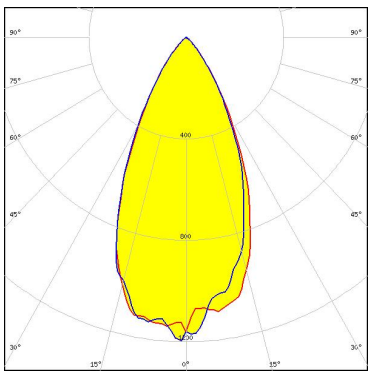
| | |
|---|---|
| LED | NCSxE17A |
| FWHM / FWTM | 30.0° / 60.0° |
| Efficiency | 88 % |
| Peak intensity | 2.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | OSLON SSL 80 |
| FWHM / FWTM | 49.0° / 80.0° |
| Efficiency | 83 % |
| Peak intensity | 1.2 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| 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:

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