# LISA4-WW

**~45° spot beam with integrated pins on lens**




## SPECIFICATION:

| | |
|---|---|
| Dimensions | Ø 10.0 mm |
| Height | 7.7 mm |
| Fastening | pin |
| ROHS compliant | yes |

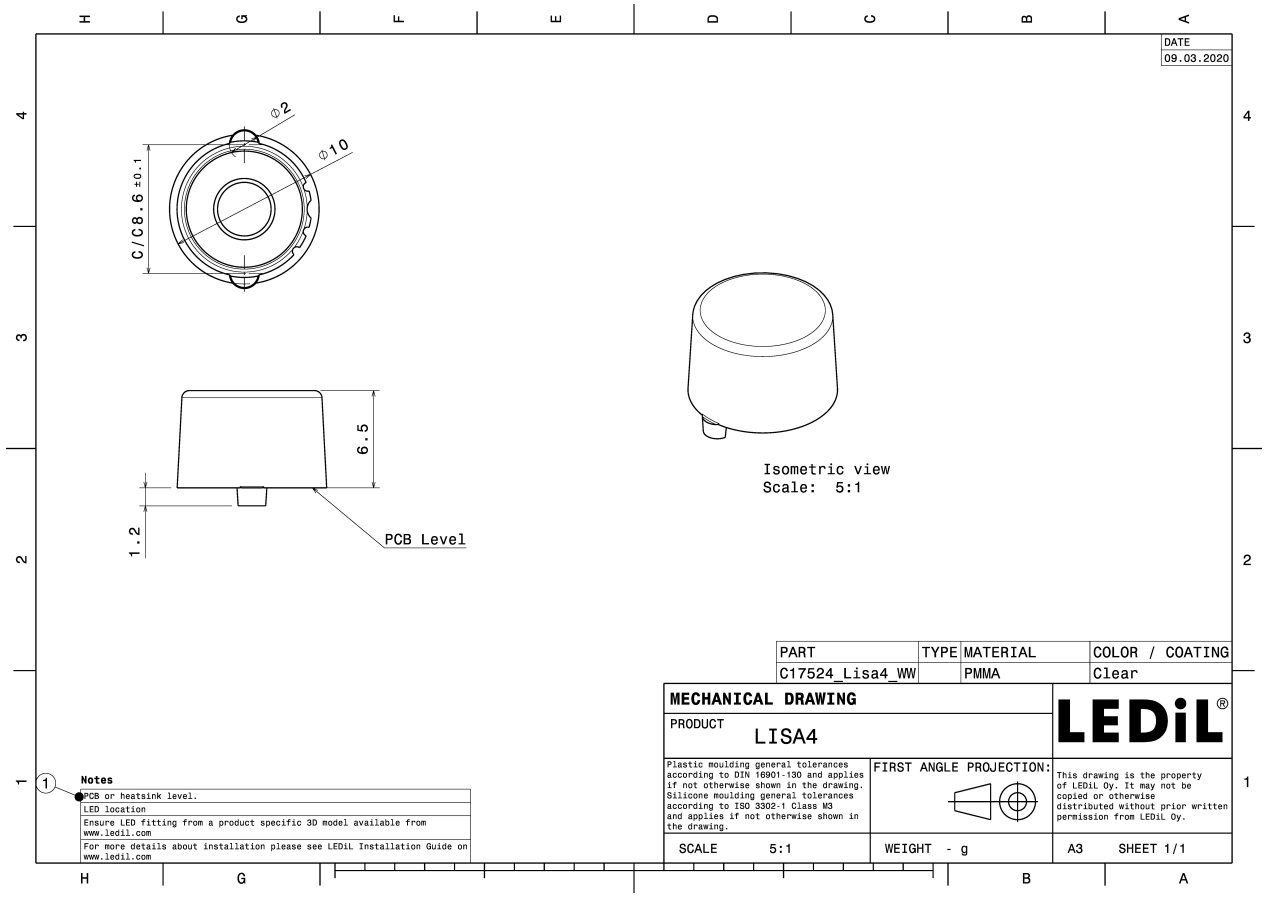
## MATERIALS:

| Component | Type | Material | Colour | Finish | Length |
|---|---|---|---|---|---|
| LISA4-WW | Single lens | PMMA | clear | | 10.0 |

## ORDERING INFORMATION:

| Component | Qty in box | MOQ | MPQ | Box weight (kg) |
|---|---|---|---|---|
| C17524_LISA4-WW<br>» Box size: 430 x 390 x 215 mm | 20000 | 1000 | 1000 | 7.5 |


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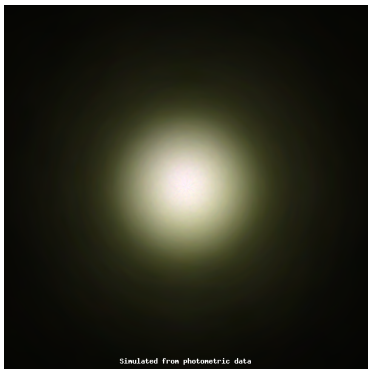

See also our general installation guide: [www.ledil.com/installation_guide](www.ledil.com/installation_guide)


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## OPTICAL RESULTS (SIMULATED):

CREE LEDs

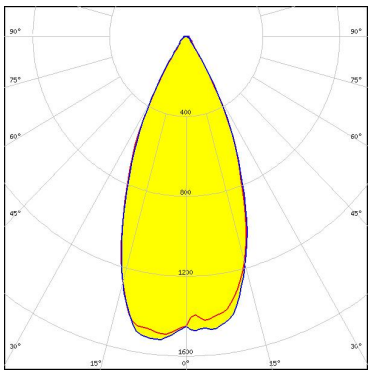
| | |
|---|---|
| LED | J Series 3030C |
| FWHM / FWTM | 42.0 + 40.0° / 69.0 + 68.0° |
| Efficiency | 96 % |
| Peak intensity | 1.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |




Light distribution files

CREE LEDs

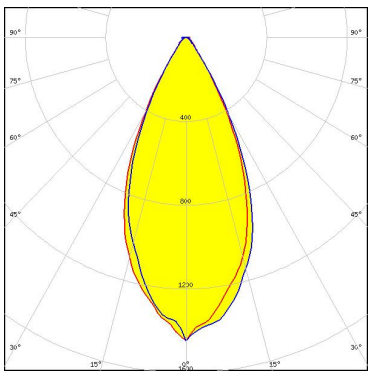
| | |
|---|---|
| LED | XP-E2 |
| FWHM / FWTM | 45.0° / 70.0° |
| Efficiency | 95 % |
| Peak intensity | 1.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

CREE LEDs

| | |
|---|---|
| LED | XP-G2 |
| FWHM / FWTM | 47.0° / 74.0° |
| Efficiency | 95 % |
| Peak intensity | 1.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



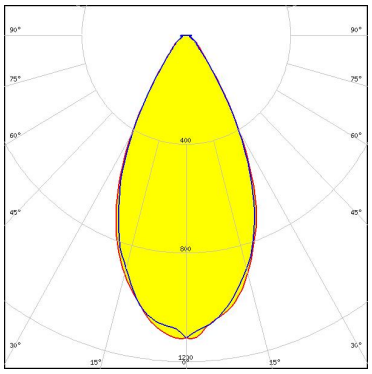
Light distribution files


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## OPTICAL RESULTS (SIMULATED):

CREE LEDs

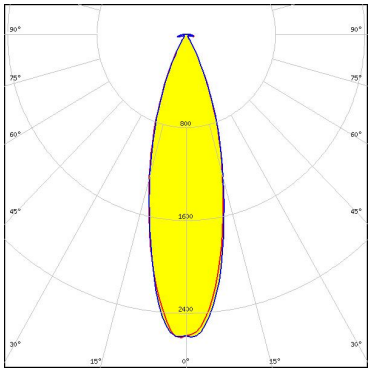
| | |
|---|---|
| LED | XP-G3 |
| FWHM / FWTM | 52.0° / 84.0° |
| Efficiency | 94 % |
| Peak intensity | 1.1 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

LUMILEDS

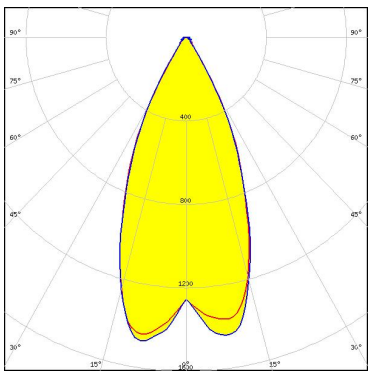
| | |
|---|---|
| LED | LUXEON HL1Z |
| FWHM / FWTM | 30.0° / 56.0 + 55.0° |
| Efficiency | 97 % |
| Peak intensity | 2.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

LUMILEDS

| | |
|---|---|
| LED | LUXEON Rubix |
| FWHM / FWTM | 47.0° / 70.0° |
| Efficiency | 95 % |
| Peak intensity | 1.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



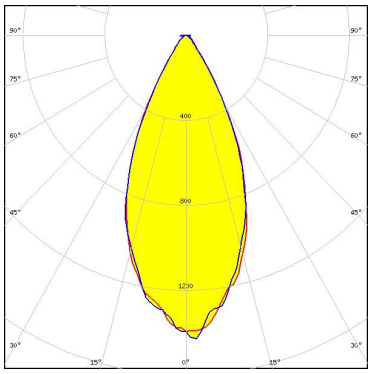
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## OPTICAL RESULTS (SIMULATED):

LUMILEDS

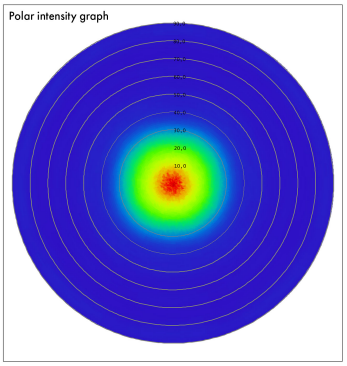
| | |
|---|---|
| LED | LUXEON TX |
| FWHM / FWTM | 46.0° / 73.0° |
| Efficiency | 95 % |
| Peak intensity | 1.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

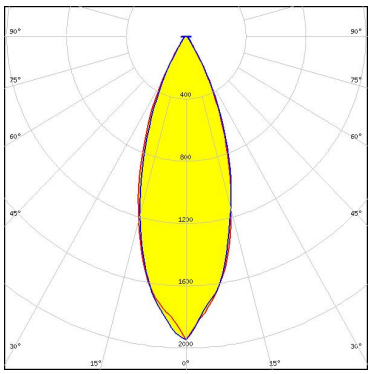


Light distribution files

LUMINUS

| | |
|---|---|
| LED | SST-10-IR-B90 |
| FWHM / FWTM | 36.0° / 64.0° |
| Efficiency | 93 % |
| LEDs/each optic | 1 |
| Light colour/type | IR |
| Required components: | |

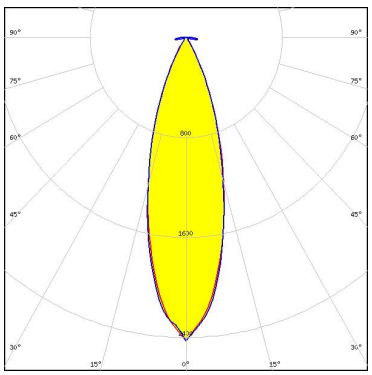


Light distribution files

NICHIA

| | |
|---|---|
| LED | NCSxE17A |
| FWHM / FWTM | 30.0° / 56.0° |
| Efficiency | 95 % |
| Peak intensity | 2.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



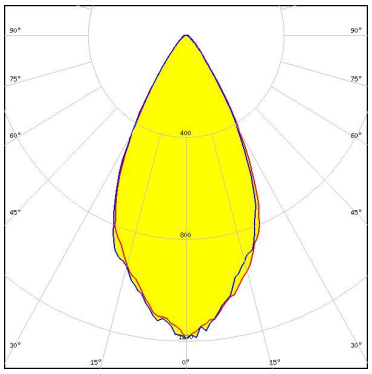
Light distribution files


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## OPTICAL RESULTS (SIMULATED):

NICHIA

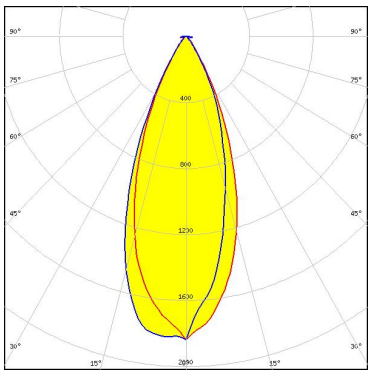
| | |
|---|---|
| LED | NVSW219F |
| FWHM / FWTM | 53.0° / 80.0° |
| Efficiency | 95 % |
| Peak intensity | 1.2 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

OSRAM
Opto Semiconductors

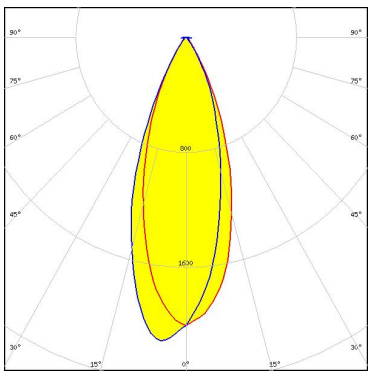
| | |
|---|---|
| LED | Duris S5 (2 chip) |
| FWHM / FWTM | 39.0° / 66.0° |
| Efficiency | 95 % |
| Peak intensity | 1.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | Duris S5 (Single chip) |
| FWHM / FWTM | 36.0° / 64.0° |
| Efficiency | 95 % |
| Peak intensity | 2.1 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



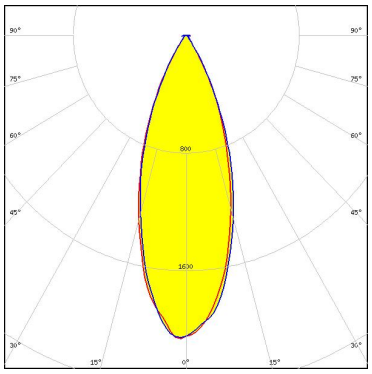
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## OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

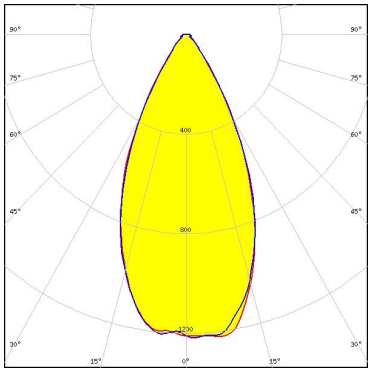
| | |
|---|---|
| LED | OSCONIQ C 2424 |
| FWHM / FWTM | 37.0° / 64.0° |
| Efficiency | 96 % |
| Peak intensity | 2.1 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

OSRAM
Opto Semiconductors

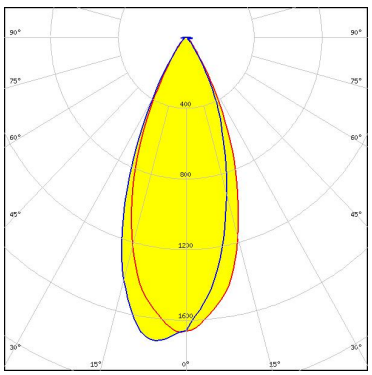
| | |
|---|---|
| LED | OSCONIQ P 3737 (3W version) |
| FWHM / FWTM | 50.0° / 78.0° |
| Efficiency | 96 % |
| Peak intensity | 1.2 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | OSCONIQ S 3030 (QSLR31) |
| FWHM / FWTM | 41.0° / 68.0° |
| Efficiency | 95 % |
| Peak intensity | 1.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



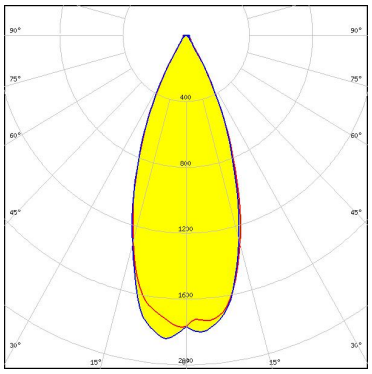
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## OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

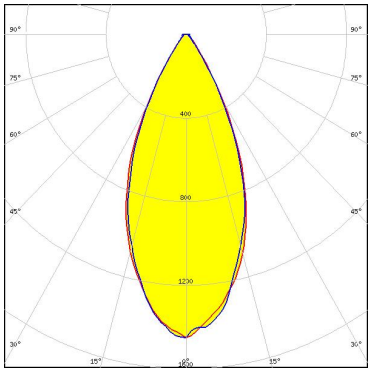
| | |
|---|---|
| LED | OSLON Pure 1414 |
| FWHM / FWTM | 42.0 + 40.0° / 64.0° |
| Efficiency | 96 % |
| Peak intensity | 1.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

OSRAM
Opto Semiconductors

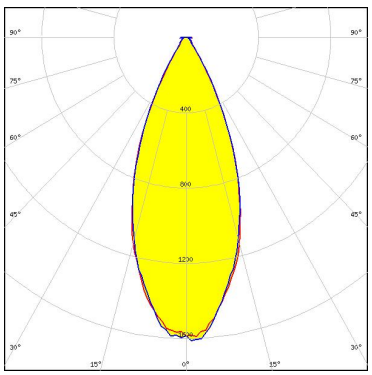
| | |
|---|---|
| LED | OSLON Square CSSRM2/CSSRM3 |
| FWHM / FWTM | 46.0° / 73.0° |
| Efficiency | 95 % |
| Peak intensity | 1.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | OSLON Square EC |
| FWHM / FWTM | 42.0° / 68.0° |
| Efficiency | 95 % |
| Peak intensity | 1.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



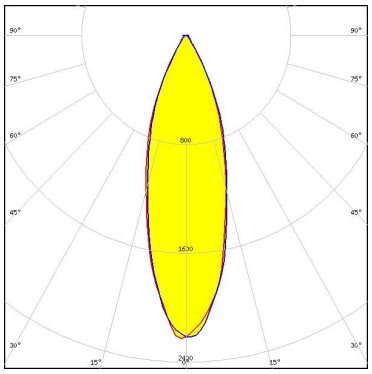
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## OPTICAL RESULTS (SIMULATED):

OSRAM
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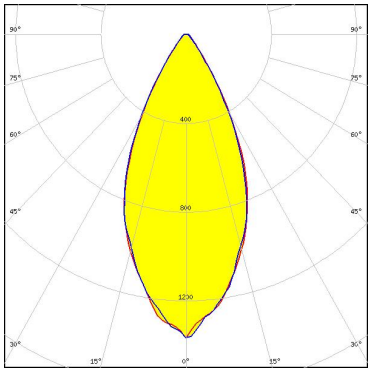
| | |
|---|---|
| LED | OSLON SSL 80 |
| FWHM / FWTM | 32.0° / 63.0° |
| Efficiency | 95 % |
| Peak intensity | 2.2 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

SAMSUNG

| | |
|---|---|
| LED | LH351B |
| FWHM / FWTM | 47.0° / 76.0° |
| Efficiency | 95 % |
| Peak intensity | 1.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files


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## 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.

## PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

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**LEDiL Oy**
Joensuunkatu 13
FI-24240 SALO
Finland

**LEDiL Inc.**
228 West Page Street
Suite D
Sycamore IL 60178
USA

**Ledil Optics Technology (Shenzhen) Co., Ltd.**
# 405 , Block B
Casic Motor Building
Shenzhen 518057
P.R.CHINA

**Local sales and technical support**
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