# STRADA-2X2-ME-N

**Beam designed for high poles and fulfilling EN13201 M-class requirements where road width is less than the pole height**




## SPECIFICATION:

| | |
|---|---|
| Dimensions | 50.0 x 50.0 |
| Height | 9.7 mm |
| Fastening | pin, screw |
| ROHS compliant | yes |

## MATERIALS:

| Component | Type | Material | Colour | Finish | Length |
|---|---|---|---|---|---|
| STRADA-2X2-ME-N | Multi-lens | PMMA | clear | | 50.0 |

## ORDERING INFORMATION:

| Component | Qty in box | MOQ | MPQ | Box weight (kg) |
|---|---|---|---|---|
| C16181_STRADA-2X2-ME-N<br>» Box size: 476 x 273 x 292 mm | 800 | 160 | 160 | 10.0 |


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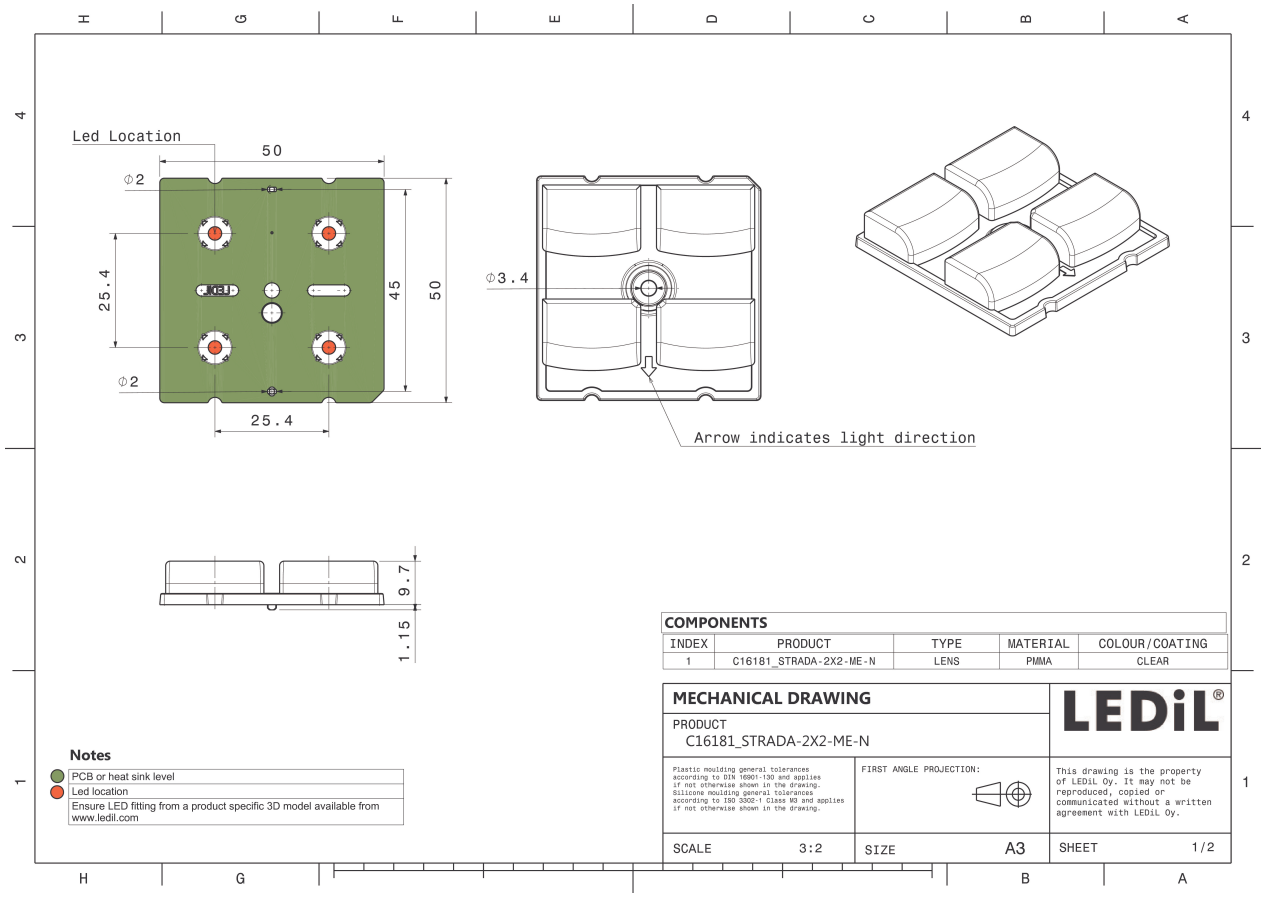


**COMPONENTS**

| INDEX | PRODUCT | TYPE | MATERIAL | COLOUR/COATING |
|---|---|---|---|---|
| 1 | C16181_STRADA-2X2-ME-N | LENS | PMMA | CLEAR |

**Notes**

| |
|---|
| PCB or heat sink level |
| Led location |
| Ensure LED fitting from a product specific 3D model available from www.ledil.com |

**MECHANICAL DRAWING**

PRODUCT
C16181_STRADA-2X2-ME-N

LEDiL®

Plastic moulding general tolerances according to DIN 16901-130 and applies if not otherwise shown in the drawing. Silicone moulding general tolerances according to ISO 3302-1 Class M3 and applies if not otherwise shown in the drawing.

FIRST ANGLE PROJECTION:

This drawing is the property of LEDiL Oy. It may not be reproduced, copied or communicated without a written agreement with LEDiL Oy.

SCALE 3:2 | SIZE A3 | SHEET 1/2

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


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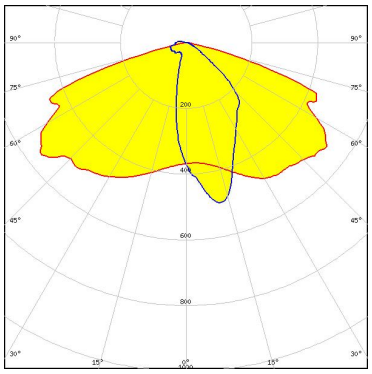
## OPTICAL RESULTS (MEASURED):

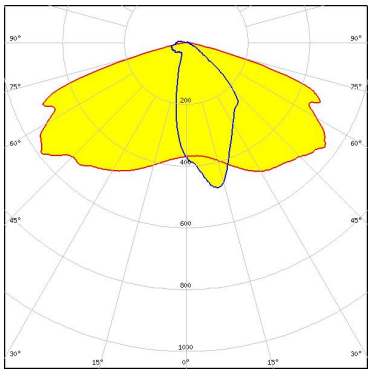
| | |
|---|---|
| LED | QUICK FLUX XTP 2x4 xxx LS G5 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |





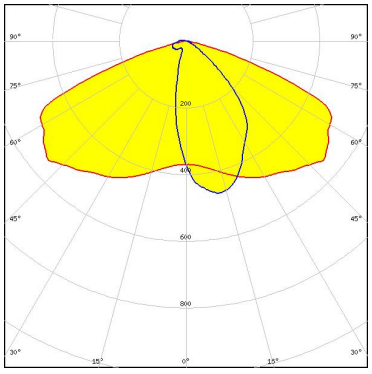
Light distribution files

| | |
|---|---|
| LED | QUICK FLUX XTP 2x6 xxx LS G5 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

| | |
|---|---|
| LED | J Series 5050C 6V E Class |
| FWHM / FWTM | Asymmetric |
| Efficiency | 95 % |
| Peak intensity | 0.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files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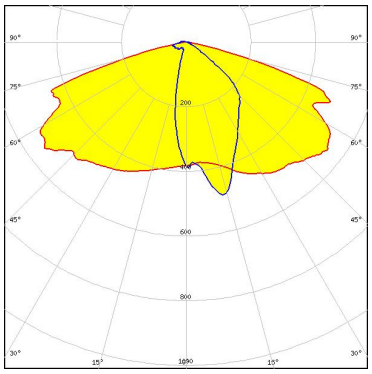
## OPTICAL RESULTS (MEASURED):

CREE LEDs

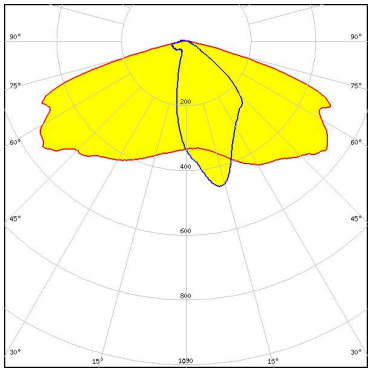
| | |
|---|---|
| LED | XP-G2 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

CREE LEDs

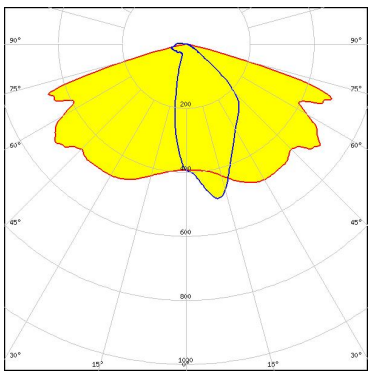
| | |
|---|---|
| LED | XP-G3 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

MST Your solutions

| | |
|---|---|
| LED | RecLED 122x50mm 1900lm 730 2x4 Opt G1 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 96 % |
| Peak intensity | 0.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files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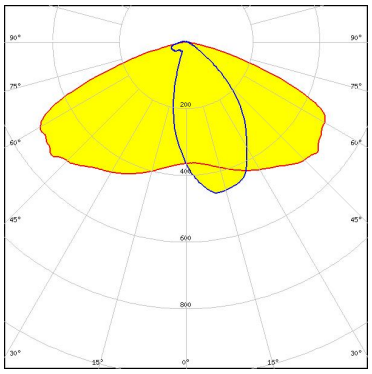
## OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

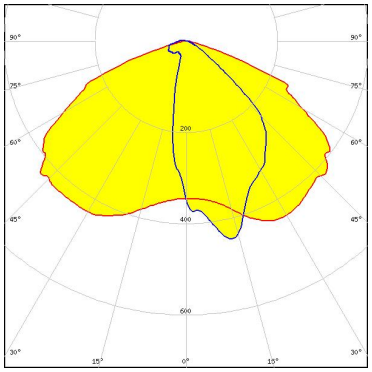
| | |
|---|---|
| LED | Duris S8 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 95 % |
| Peak intensity | 0.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

OSRAM
Opto Semiconductors

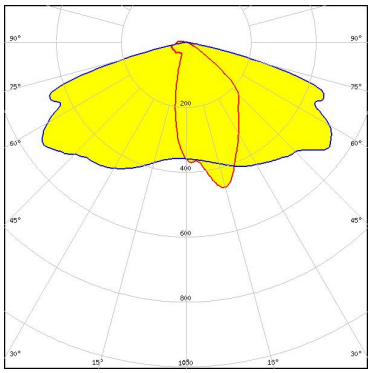
| | |
|---|---|
| LED | OSLON Square PC |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

PHILIPS

| | |
|---|---|
| LED | Fortimo FastFlex LED 2x8 DA G4+ |
| FWHM / FWTM | Asymmetric |
| Efficiency | 96 % |
| Peak intensity | 0.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files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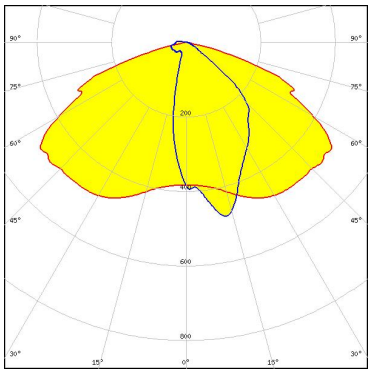
## OPTICAL RESULTS (MEASURED):

PHILIPS

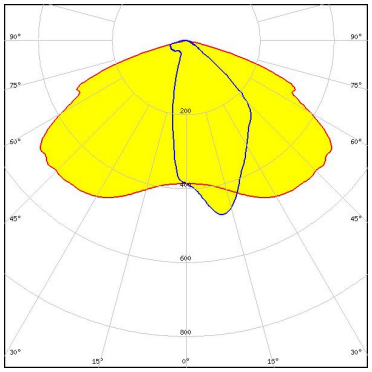
| | |
|---|---|
| LED | Fortimo FastFlex LED 2x8 DA G5 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 95 % |
| Peak intensity | 0.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

SEITEC Elektronik GmbH

| | |
|---|---|
| LED | LED-Pa-L15c2W11c2-xxx-C050-01 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 97 % |
| Peak intensity | 0.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

TRIDONIC

| | |
|---|---|
| LED | RLE 2x4 2000lm HP EXC2 OTD |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.9 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

Light distribution files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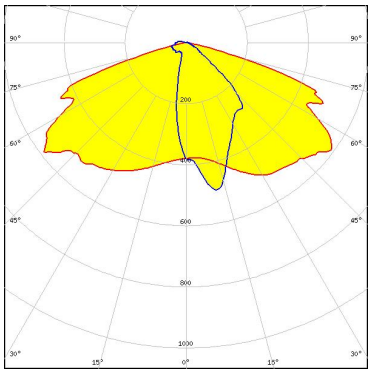
## OPTICAL RESULTS (MEASURED):

TRIDONIC

| | |
|---|---|
| LED | RLE 2x8 4000lm HP EXC2 OTD |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.9 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files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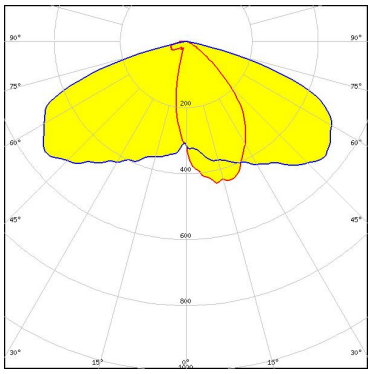
## OPTICAL RESULTS (SIMULATED):

CREE LEDs

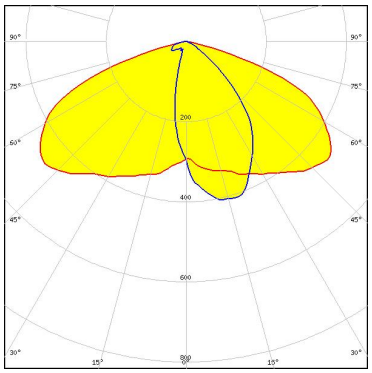
| | |
|---|---|
| LED | J Series 5050 Round LES |
| FWHM / FWTM | Asymmetric |
| Efficiency | 93 % |
| Peak intensity | 0.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

CREE LEDs

| | |
|---|---|
| LED | J Series 5050 Round LES |
| FWHM / FWTM | Asymmetric |
| Efficiency | 82 % |
| Peak intensity | 0.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

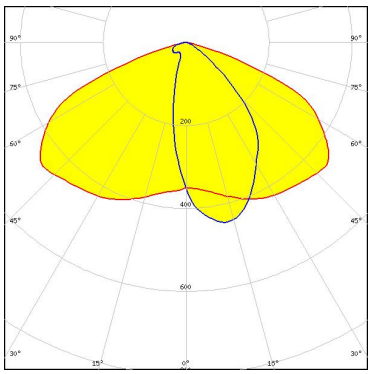


Protective plate, glass

Light distribution files

CREE LEDs

| | |
|---|---|
| LED | J Series 5050C 6V E Class |
| FWHM / FWTM | Asymmetric |
| Efficiency | 85 % |
| Peak intensity | 0.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Protective plate, glass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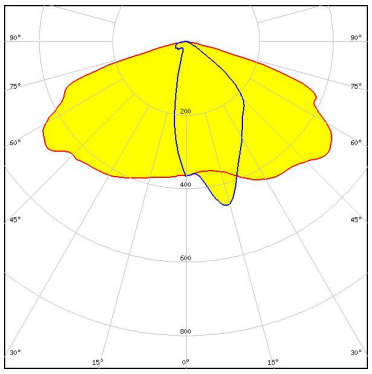
## OPTICAL RESULTS (SIMULATED):

CREE LEDs

| | |
|---|---|
| LED | XP-G2 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 84 % |
| Peak intensity | 0.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

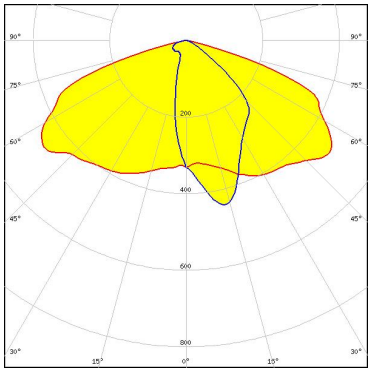


Protective plate, glass

Light distribution files

CREE LEDs

| | |
|---|---|
| LED | XP-G3 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 86 % |
| Peak intensity | 0.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

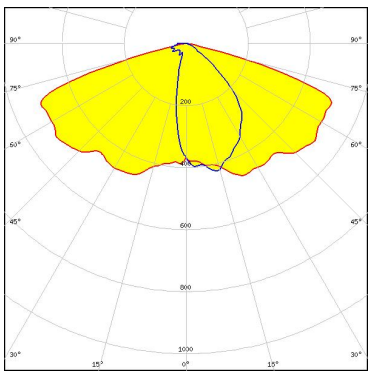


Protective plate, glass

Light distribution files

CREE LEDs

| | |
|---|---|
| LED | XP-G4 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 95 % |
| Peak intensity | 0.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

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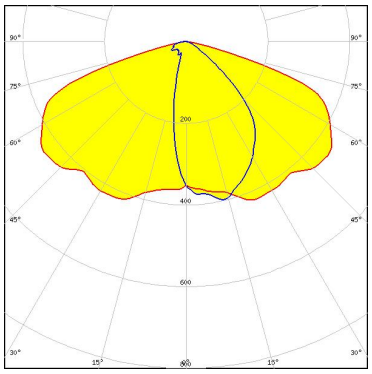
## OPTICAL RESULTS (SIMULATED):

CREE LEDs

| | |
|---|---|
| LED | XP-G4 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 85 % |
| Peak intensity | 0.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

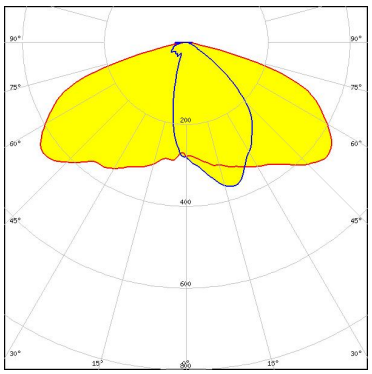
Protective plate, glass



CREE LEDs

| | |
|---|---|
| LED | XP-L2 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 82 % |
| Peak intensity | 0.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

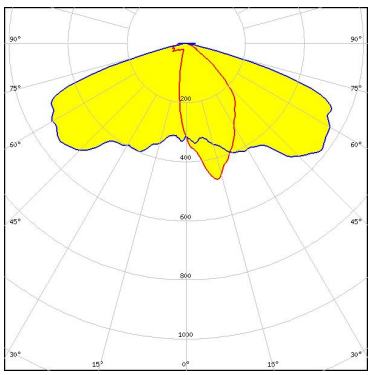
Protective plate, glass



Light distribution files

CREE LEDs

| | |
|---|---|
| LED | XT-E |
| FWHM / FWTM | Asymmetric |
| Efficiency | 92 % |
| Peak intensity | 0.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files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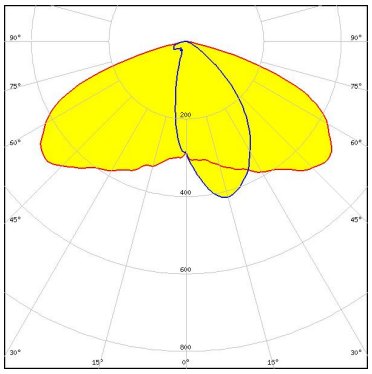
## OPTICAL RESULTS (SIMULATED):

LUMILEDS

| | |
|---|---|
| LED | LUXEON 5050 HE |
| FWHM / FWTM | Asymmetric |
| Efficiency | 82 % |
| Peak intensity | 0.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

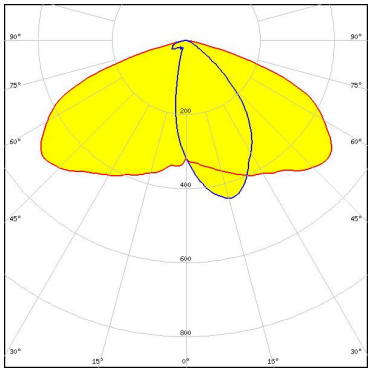


Protective plate, glass

Light distribution files

LUMILEDS

| | |
|---|---|
| LED | LUXEON 5050 Round LES |
| FWHM / FWTM | Asymmetric |
| Efficiency | 87 % |
| Peak intensity | 0.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

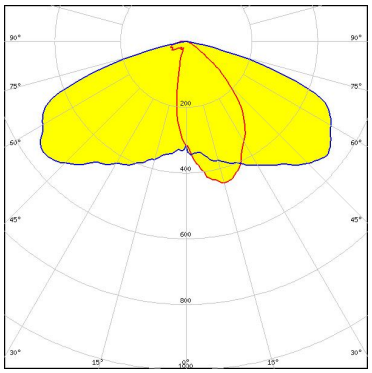


Protective plate, glass

Light distribution files

LUMILEDS

| | |
|---|---|
| LED | LUXEON 5050 Round LES |
| FWHM / FWTM | Asymmetric |
| Efficiency | 93 % |
| Peak intensity | 0.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files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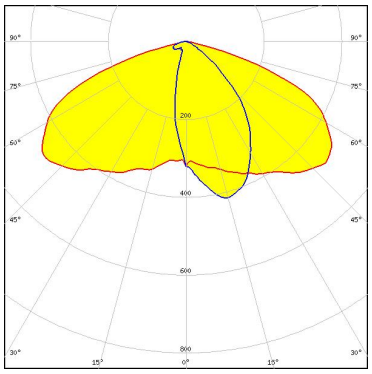
## OPTICAL RESULTS (SIMULATED):

LUMILEDS

| | |
|---|---|
| LED | LUXEON 5050 Square LES |
| FWHM / FWTM | Asymmetric |
| Efficiency | 82 % |
| Peak intensity | 0.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

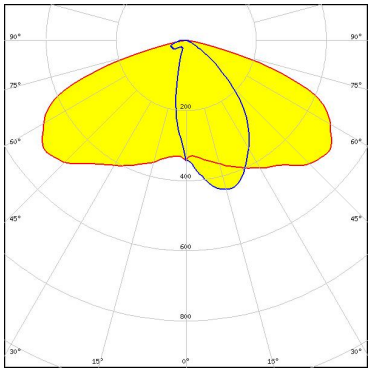
Protective plate, glass



Light distribution files

LUMILEDS

| | |
|---|---|
| LED | LUXEON 5050 Square LES |
| FWHM / FWTM | Asymmetric |
| Efficiency | 92 % |
| Peak intensity | 0.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

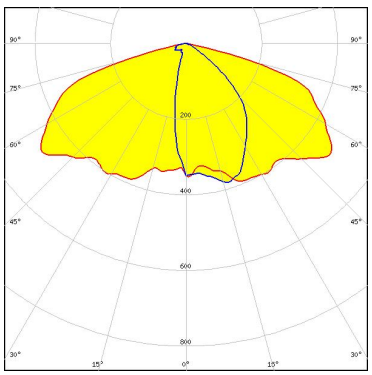


Light distribution files

LUMILEDS

| | |
|---|---|
| LED | LUXEON HL2X |
| FWHM / FWTM | Asymmetric |
| Efficiency | 82 % |
| Peak intensity | 0.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

Protective plate, glass

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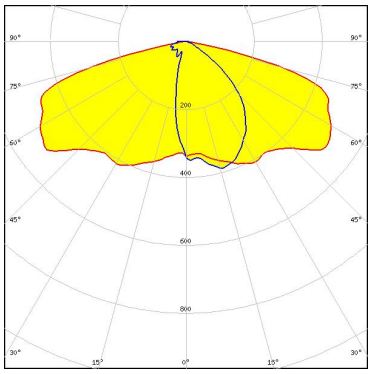
## OPTICAL RESULTS (SIMULATED):

LUMILEDS

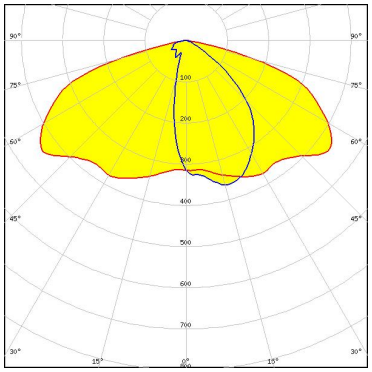
| | |
|---|---|
| LED | LUXEON XR-HL2X (L2H2-xxxxxxxMLU010) |
| FWHM / FWTM | Asymmetric |
| Efficiency | 95 % |
| Peak intensity | 0.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

LUMILEDS

| | |
|---|---|
| LED | LUXEON XR-HL2X (L2H2-xxxxxxxMLU010) |
| FWHM / FWTM | Asymmetric |
| Efficiency | 84 % |
| Peak intensity | 0.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

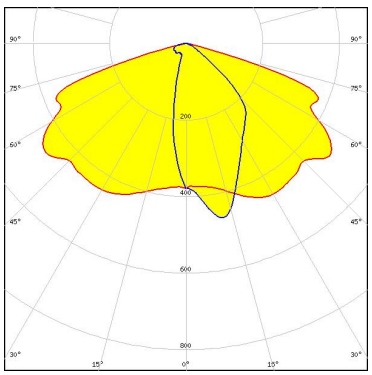


Protective plate, glass

Light distribution files

MST Your solutions

| | |
|---|---|
| LED | RecLED 122x50mm 1900lm 730 2x4 Opt G1 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 86 % |
| Peak intensity | 0.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Protective plate, glass

Light distribution files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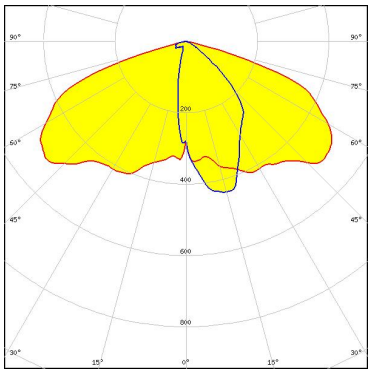
## OPTICAL RESULTS (SIMULATED):

NICHIA

| | |
|---|---|
| LED | NFSx757G |
| FWHM / FWTM | Asymmetric |
| Efficiency | 82 % |
| Peak intensity | 0.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

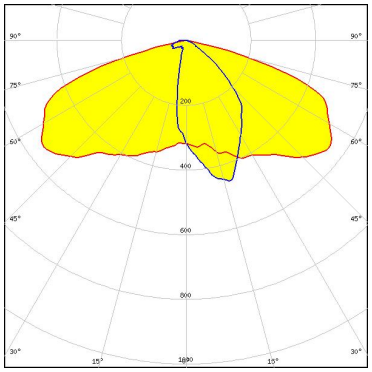
Protective plate, glass



Light distribution files

NICHIA

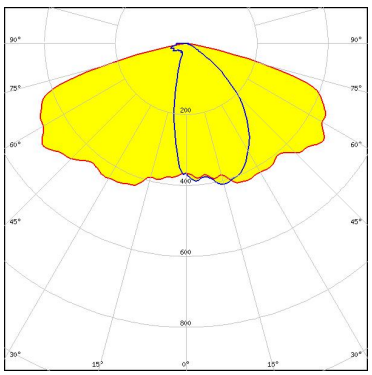
| | |
|---|---|
| LED | NV4WB35AM |
| FWHM / FWTM | Asymmetric |
| Efficiency | 93 % |
| Peak intensity | 0.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

NICHIA

| | |
|---|---|
| LED | NVSW219F |
| FWHM / FWTM | Asymmetric |
| Efficiency | 93 % |
| Peak intensity | 0.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files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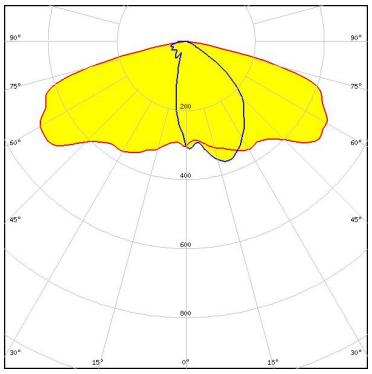
## OPTICAL RESULTS (SIMULATED):

NICHIA

| | |
|---|---|
| LED | NVSW519A |
| FWHM / FWTM | Asymmetric |
| Efficiency | 92 % |
| Peak intensity | 0.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

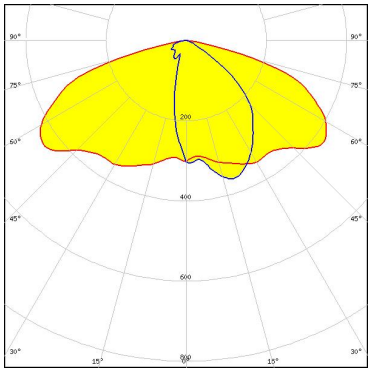


Light distribution files

NICHIA

| | |
|---|---|
| LED | NVSW519A |
| FWHM / FWTM | Asymmetric |
| Efficiency | 86 % |
| Peak intensity | 0.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

Protective plate, glass

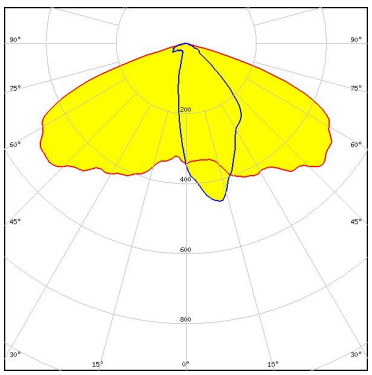


Light distribution files

NICHIA

| | |
|---|---|
| LED | NVSxE21A |
| FWHM / FWTM | Asymmetric |
| Efficiency | 82 % |
| Peak intensity | 0.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

Protective plate, glass



Light distribution files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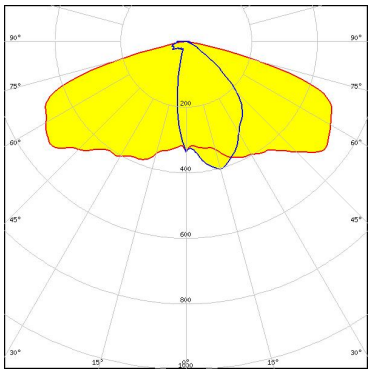
## OPTICAL RESULTS (SIMULATED):

NICHIA

| | |
|---|---|
| LED | NVSxx19B/NVSxx19C |
| FWHM / FWTM | Asymmetric |
| Efficiency | 92 % |
| Peak intensity | 0.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

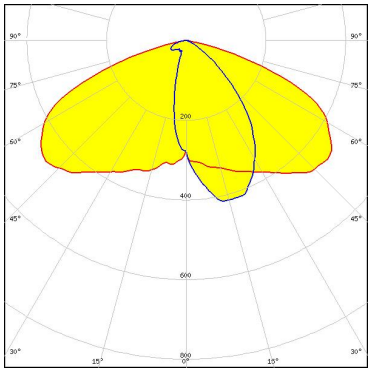


Light distribution files

OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | Duris S8 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 84 % |
| Peak intensity | 0.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

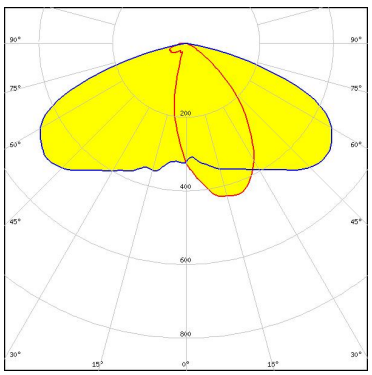
Protective plate, glass



Light distribution files

OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | Duris S8 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 92 % |
| Peak intensity | 0.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files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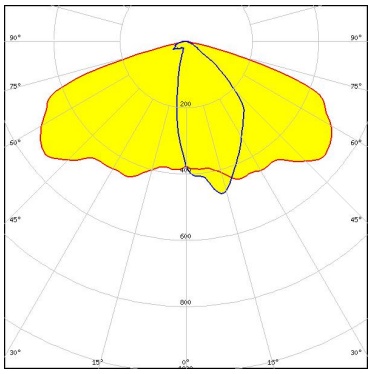
## OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

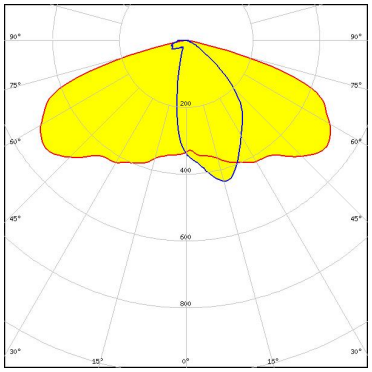
| | |
|---|---|
| LED | OSCONIQ P 3737 (2W version) |
| FWHM / FWTM | Asymmetric |
| Efficiency | 93 % |
| Peak intensity | 0.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

OSRAM
Opto Semiconductors

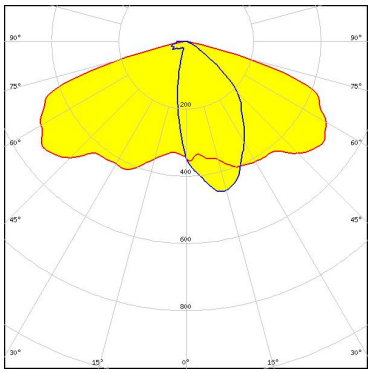
| | |
|---|---|
| LED | OSCONIQ P 3737 (3W version) |
| FWHM / FWTM | Asymmetric |
| Efficiency | 93 % |
| Peak intensity | 0.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | OSLON Square CSSRM2/CSSRM3 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 93 % |
| Peak intensity | 0.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files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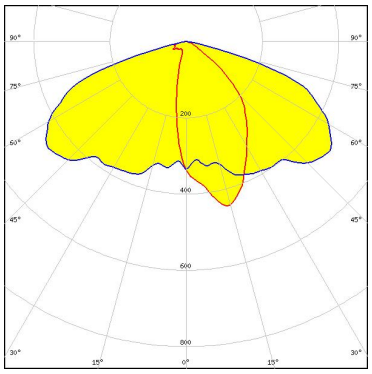
## OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | OSLON Square CSSRM2/CSSRM3 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 83 % |
| Peak intensity | 0.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

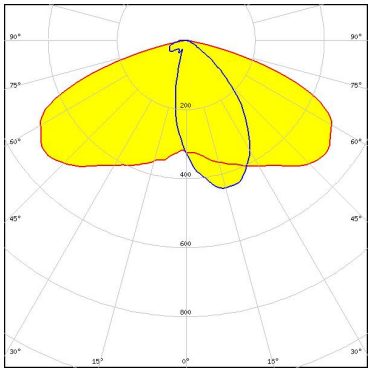


Protective plate, glass

Light distribution files

PHILIPS

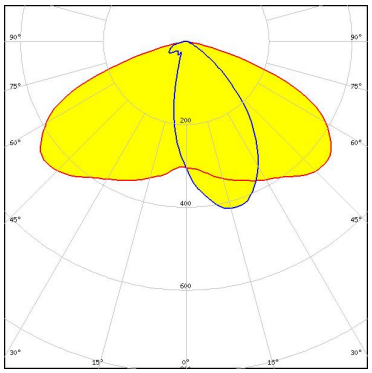
| | |
|---|---|
| LED | Fortimo FastFlex LED 2x8 DA HE |
| FWHM / FWTM | Asymmetric |
| Efficiency | 95 % |
| Peak intensity | 0.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

PHILIPS

| | |
|---|---|
| LED | Fortimo FastFlex LED 2x8 DA HE |
| FWHM / FWTM | Asymmetric |
| Efficiency | 84 % |
| Peak intensity | 0.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Protective plate, glass

Light distribution files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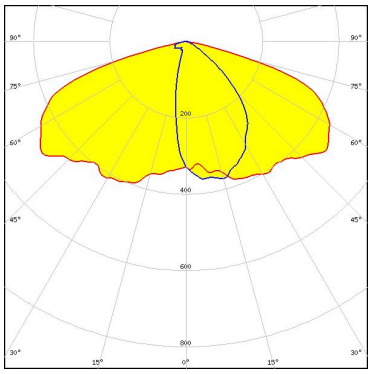
## OPTICAL RESULTS (SIMULATED):

SAMSUNG

| | |
|---|---|
| LED | LH351B |
| FWHM / FWTM | Asymmetric |
| Efficiency | 82 % |
| Peak intensity | 0.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

Protective plate, glass

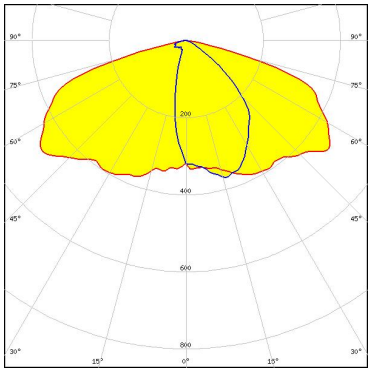


Light distribution files

SAMSUNG

| | |
|---|---|
| LED | LH351C |
| FWHM / FWTM | Asymmetric |
| Efficiency | 83 % |
| Peak intensity | 0.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

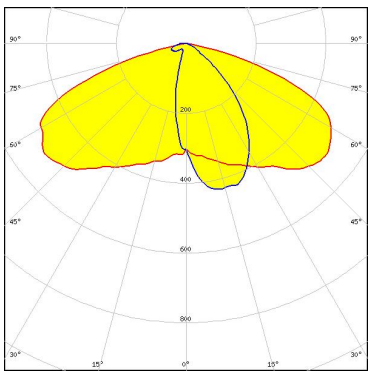
Protective plate, glass



Light distribution files

SEOUL SEMICONDUCTOR

| | |
|---|---|
| LED | MJT 5050 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 92 % |
| Peak intensity | 0.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files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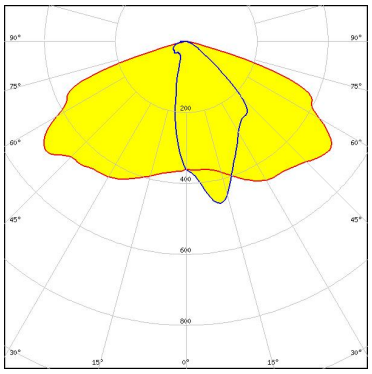
## OPTICAL RESULTS (SIMULATED):

TRIDONIC

| | |
|---|---|
| LED | RLE 2x8 4000lm HP EXC2 OTD |
| FWHM / FWTM | Asymmetric |
| Efficiency | 86 % |
| Peak intensity | 0.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

Protective plate, glass



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.

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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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