# STRADA-2X2-DN

**Beam for area lighting with shorter illumination distances**

## SPECIFICATION:

| | |
|---|---|
| Dimensions | 50.0 x 50.0 |
| Height | 8.1 mm |
| Fastening | pin, screw |
| ROHS compliant | yes |

## MATERIALS:

| Component | Type | Material | Colour | Finish | Length (mm) |
|---|---|---|---|---|---|
| STRADA-2X2-DN | Multi-lens | PMMA | clear | | |

## ORDERING INFORMATION:

| Component | Qty in box | MOQ | MPQ | Box weight (kg) |
|---|---|---|---|---|
| C13699_STRADA-2X2-DN<br>» Box size: 480 x 280 x 300 mm | 800 | 160 | 160 | 7.7 |


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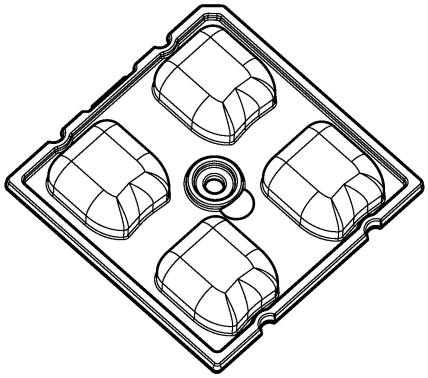
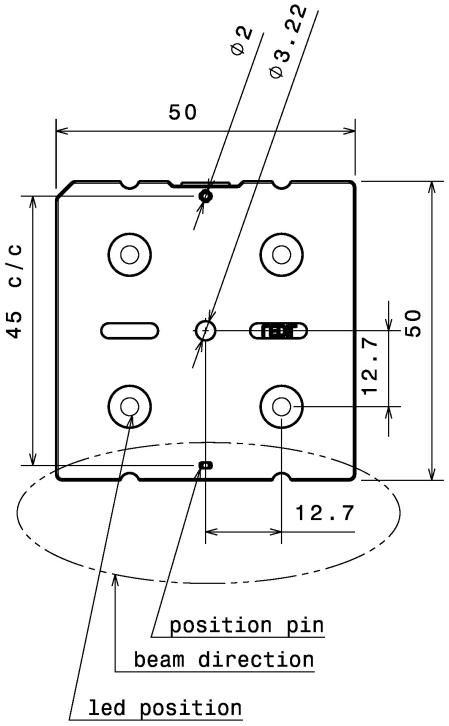
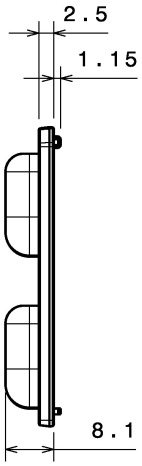
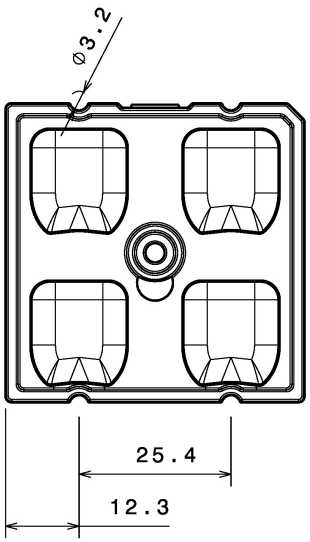
| DATE |
|---|
| 27.08.2021 |






| PART | TYPE | MATERIAL | COLOR / COATING |
|---|---|---|---|
| C13699 | lens | PMMA | clear |

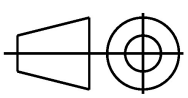
**MECHANICAL DRAWING**

PRODUCT C13699_STRADA-2X2-DN

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 copied or otherwise distributed without prior written permission from LEDiL Oy.

SCALE 1:1 | WEIGHT - | A4 SHEET 1/1

See also our general installation guide: www.ledil.com/installation_guide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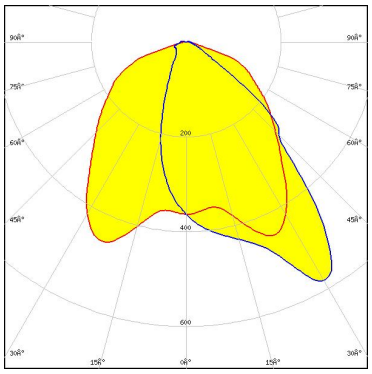
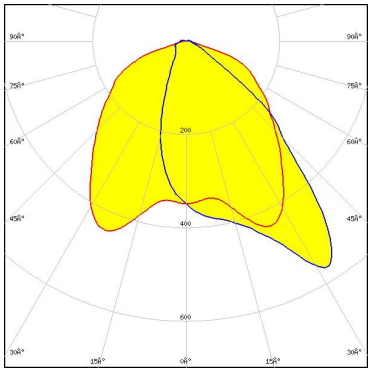
## OPTICAL RESULTS (MEASURED):

| | |
|---|---|
| LED | QUICK FLUX XTP 2x4 xxx LS G5 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



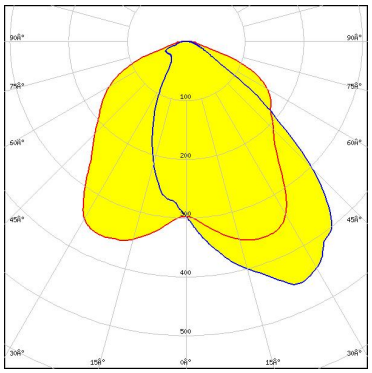
Light distribution files

| | |
|---|---|
| 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 | XD16 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.5 cd/lm |
| LEDs/each optic | 4 |
| Light colour/type | White |
| Required components: | |



Light distribution files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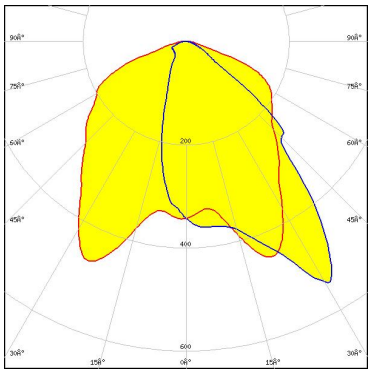
## OPTICAL RESULTS (MEASURED):

CREE LEDs

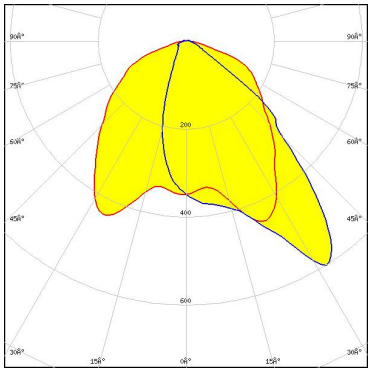
| | |
|---|---|
| LED | XD16 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

CREE LEDs

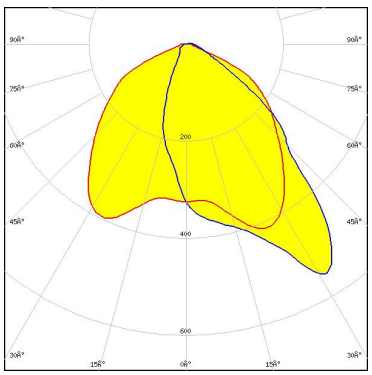
| | |
|---|---|
| LED | XP-G2 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

CREE LEDs

| | |
|---|---|
| LED | XP-G3 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 91 % |
| Peak intensity | 0.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |
| C17580_STRADA-2X2-SHD-WHT | |



Light distribution files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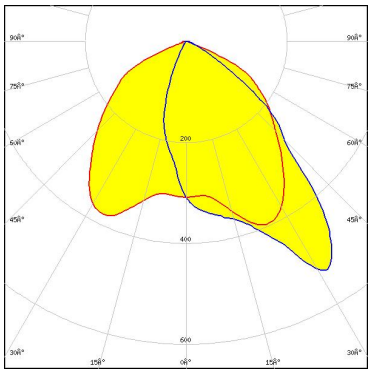
## OPTICAL RESULTS (MEASURED):

CREE LEDs

| | |
|---|---|
| LED | XP-G3 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 82 % |
| Peak intensity | 0.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |

Required components:

C17677_STRADA-2X2-SHD-BLK

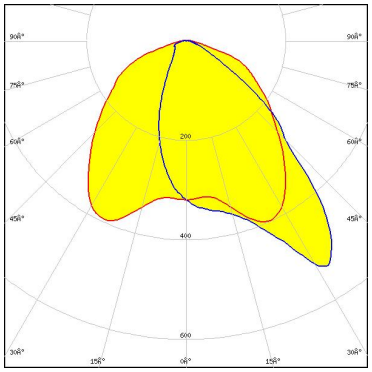


Light distribution files

CREE LEDs

| | |
|---|---|
| LED | XP-G3 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 97 % |
| Peak intensity | 0.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |

Required components:



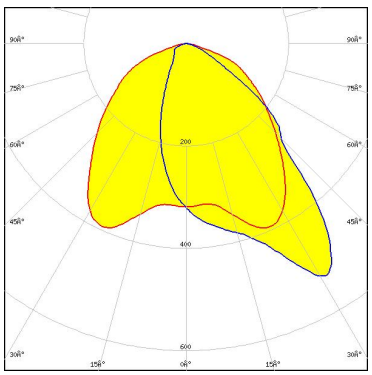
Light distribution files

CREE LEDs

| | |
|---|---|
| LED | XP-G3 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 90 % |
| Peak intensity | 0.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |

Required components:

Protective plate, glass



Light distribution files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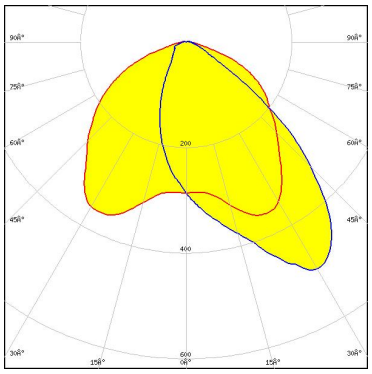
## OPTICAL RESULTS (MEASURED):

CREE LEDs

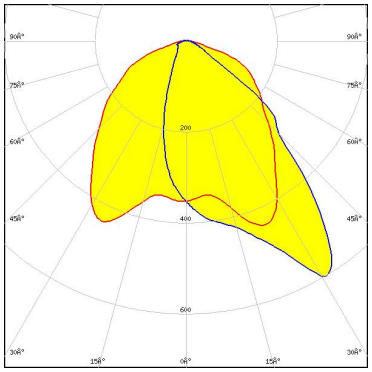
| | |
|---|---|
| LED | XP-L HD |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

CREE LEDs

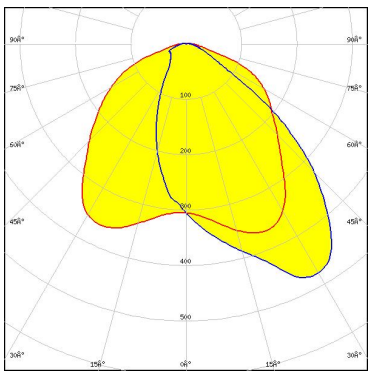
| | |
|---|---|
| LED | XP-L HI |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

CREE LEDs

| | |
|---|---|
| LED | XP-L2 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files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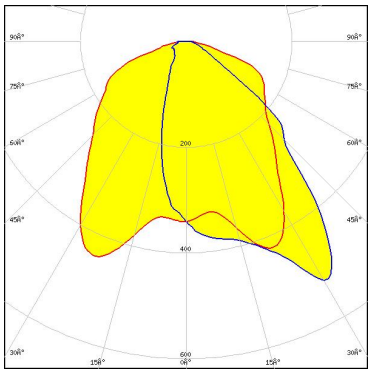
## OPTICAL RESULTS (MEASURED):

CREE LEDs

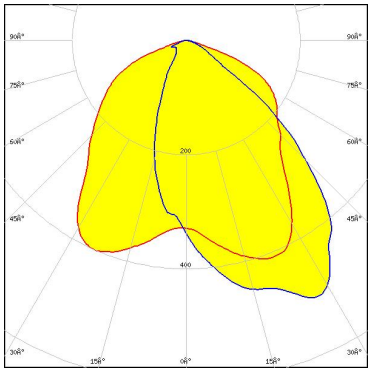
| | |
|---|---|
| LED | XT-E |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

LUMILEDS

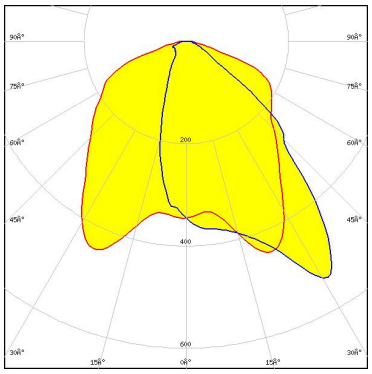
| | |
|---|---|
| LED | LUXEON MZ |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

LUMILEDS

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



Light distribution files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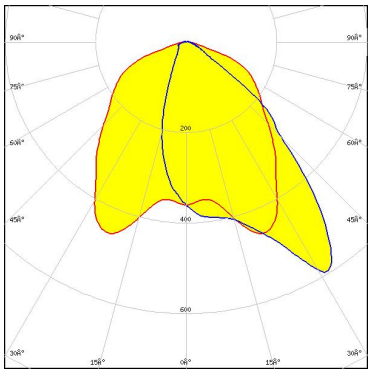
## OPTICAL RESULTS (MEASURED):

LUMILEDS

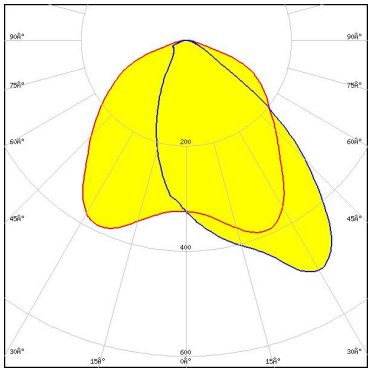
| | |
|---|---|
| LED | LUXEON TX |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

LUMILEDS

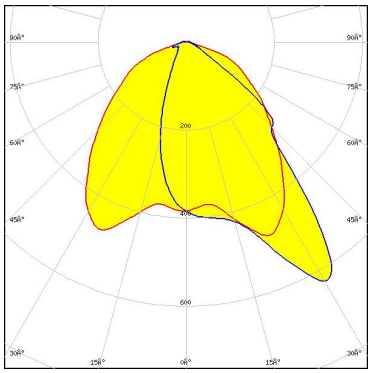
| | |
|---|---|
| LED | LUXEON V |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

MST Your solutions

| | |
|---|---|
| LED | RecLED 122x50mm 1900lm 730 2x4 Opt G1 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 98 % |
| Peak intensity | 0.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files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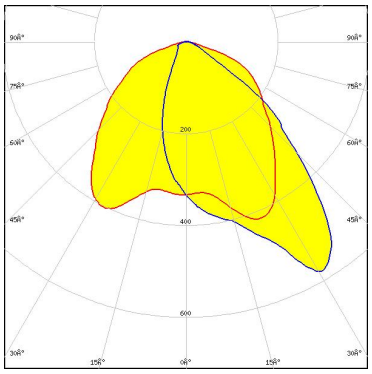
## OPTICAL RESULTS (MEASURED):

NICHIA

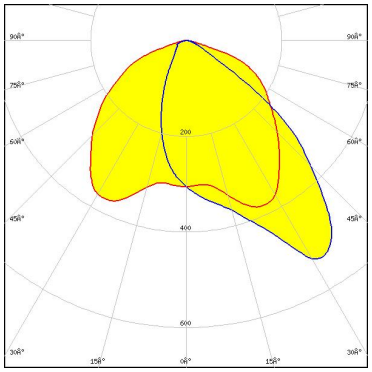
| | |
|---|---|
| LED | NVSW219F |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

NICHIA

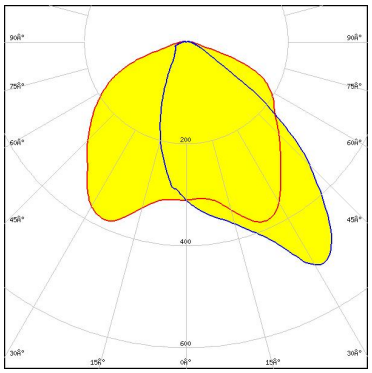
| | |
|---|---|
| LED | NVSW319B |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

NICHIA

| | |
|---|---|
| LED | NVSW3x9A |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files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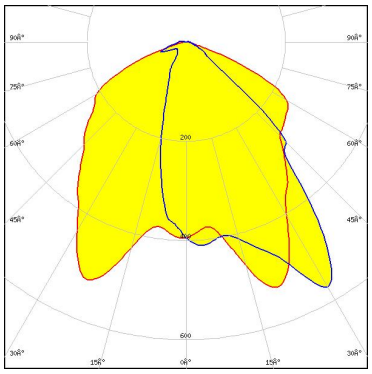
## OPTICAL RESULTS (MEASURED):

NICHIA

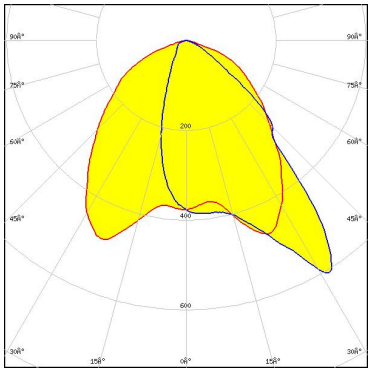
| | |
|---|---|
| LED | NVSxE21A |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 1.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | OSCONIQ P 3737 (2W version) |
| FWHM / FWTM | Asymmetric |
| Efficiency | 92 % |
| Peak intensity | 0.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

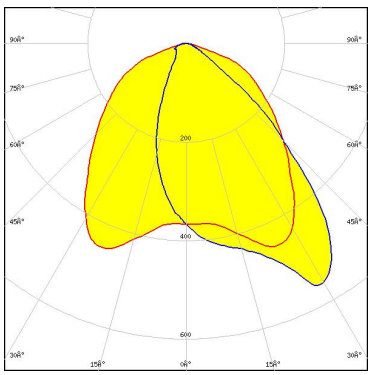


Protective plate, glass

Light distribution files

OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | OSCONIQ P 3737 (3W version) |
| FWHM / FWTM | Asymmetric |
| Efficiency | 98 % |
| Peak intensity | 0.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files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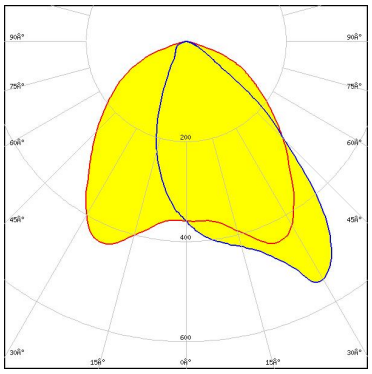
## OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | OSCONIQ P 3737 (3W version) |
| FWHM / FWTM | Asymmetric |
| Efficiency | 92 % |
| Peak intensity | 0.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

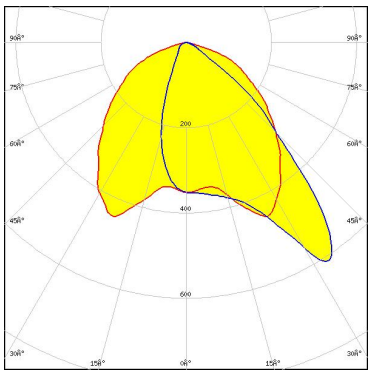


Protective plate, glass

Light distribution files

OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | OSLON Square CSSRM2/CSSRM3 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 91 % |
| Peak intensity | 0.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

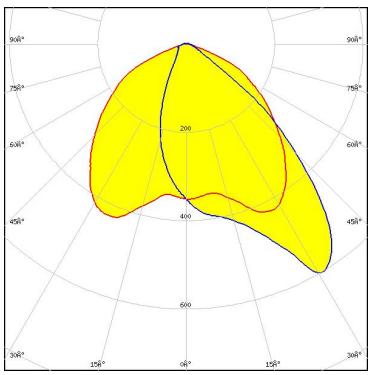


Protective plate, glass

Light distribution files

OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | OSLON Square CSSRM2/CSSRM3 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 98 % |
| Peak intensity | 0.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files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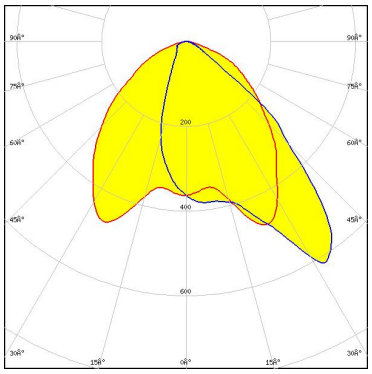
## OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

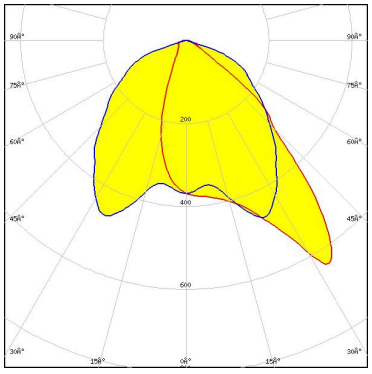
| | |
|---|---|
| LED | OSLON Square PC |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

PHILIPS

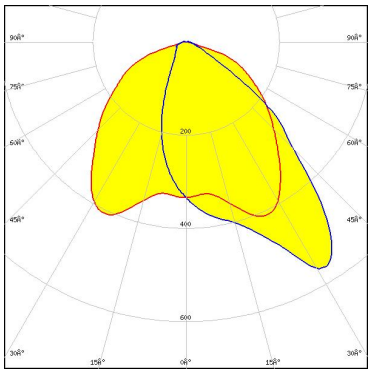
| | |
|---|---|
| LED | Fortimo FastFlex LED 2x8 DA G4 |
| FWHM / FWTM | Asymmetric |
| Efficiency | % |
| Peak intensity | 0.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

PHILIPS

| | |
|---|---|
| LED | Fortimo FastFlex LED 2x8 DA G4+ |
| FWHM / FWTM | Asymmetric |
| Efficiency | 98 % |
| Peak intensity | 0.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



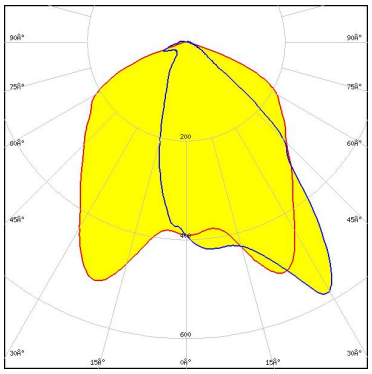
Light distribution files


LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

## OPTICAL RESULTS (MEASURED):

SAMSUNG

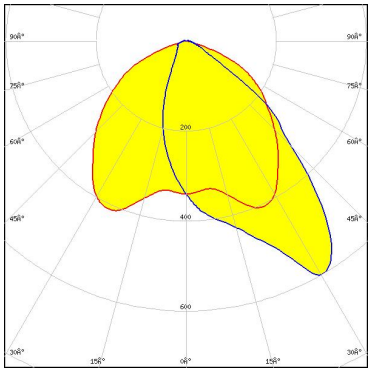
| | |
|---|---|
| LED | HiLOM RC12 Z (LH181B) |
| FWHM / FWTM | Asymmetric |
| Efficiency | 99 % |
| Peak intensity | 0.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

SAMSUNG

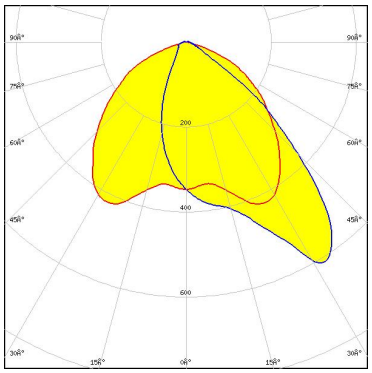
| | |
|---|---|
| LED | HiLOM RH12 Z (LH351C) |
| FWHM / FWTM | Asymmetric |
| Efficiency | 98 % |
| Peak intensity | 0.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

SAMSUNG

| | |
|---|---|
| LED | HiLOM RH16 (LH351C) |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



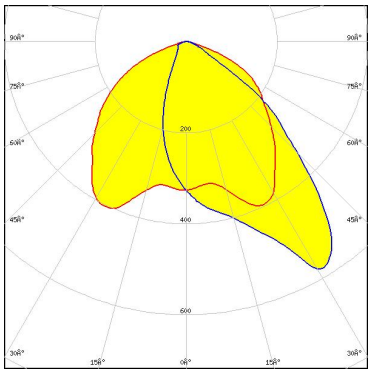
Light distribution files


LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

## OPTICAL RESULTS (MEASURED):

SAMSUNG

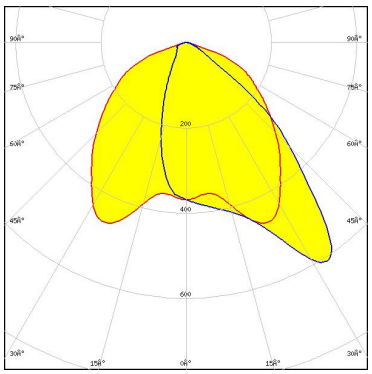
| | |
|---|---|
| LED | LH351B |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

SEITEC Elektronik GmbH

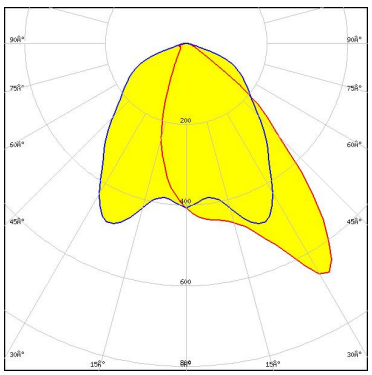
| | |
|---|---|
| LED | LED-Pa-L15c2W11c2-xxx-C050-01 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 98 % |
| Peak intensity | 0.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

SEOUL SEMICONDUCTOR

| | |
|---|---|
| LED | Z5M1/Z5M2 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



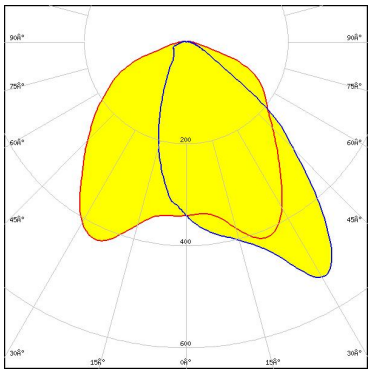
Light distribution files


LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

## OPTICAL RESULTS (MEASURED):

SEOUL SEMICONDUCTOR

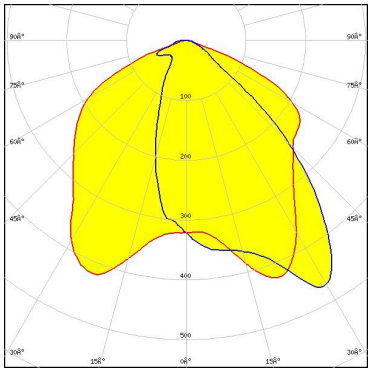
| | |
|---|---|
| LED | Z5M3 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

SEOUL SEMICONDUCTOR

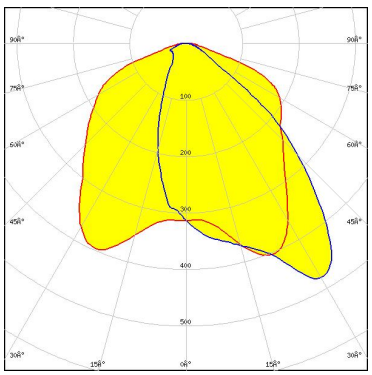
| | |
|---|---|
| LED | Z8Y22 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

SEOUL SEMICONDUCTOR

| | |
|---|---|
| LED | Z8Y22P |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



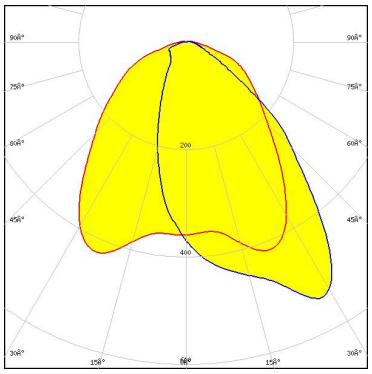
Light distribution files


LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

## OPTICAL RESULTS (MEASURED):

TOSHIBA
Leading Innovation

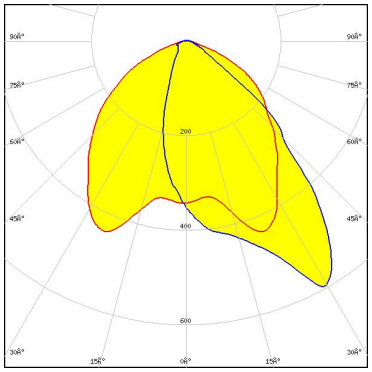
| | |
|---|---|
| LED | TL1L3 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

TOSHIBA
Leading Innovation

| | |
|---|---|
| LED | TL1L4 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 91 % |
| Peak intensity | 0.7 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 | 0.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

Light distribution files

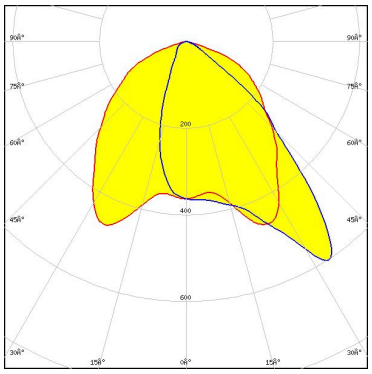

LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

## OPTICAL RESULTS (MEASURED):

TRIDONIC

| | |
|---|---|
| LED | RLE 2x4 2000lm HP EXC2 OTD |
| FWHM / FWTM | Asymmetric |
| Efficiency | 92 % |
| Peak intensity | 0.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

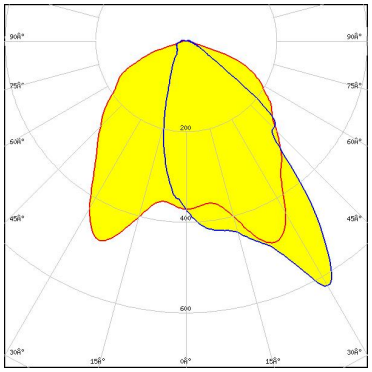
Protective plate, glass



Light distribution files

TRIDONIC

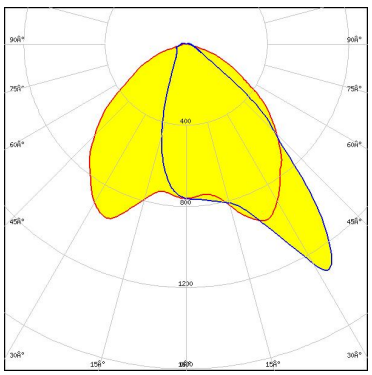
| | |
|---|---|
| LED | RLE 2x8 4000lm HP EXC2 OTD |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

TRIDONIC

| | |
|---|---|
| LED | RLE G1 49x121mm 2000lm xxx EXC OTD |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files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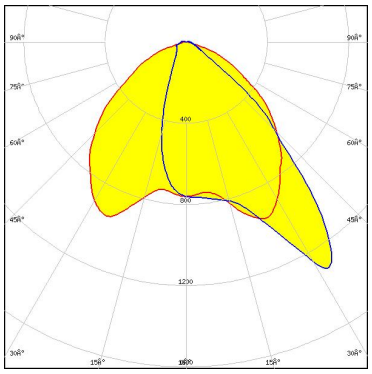
## OPTICAL RESULTS (MEASURED):

TRIDONIC

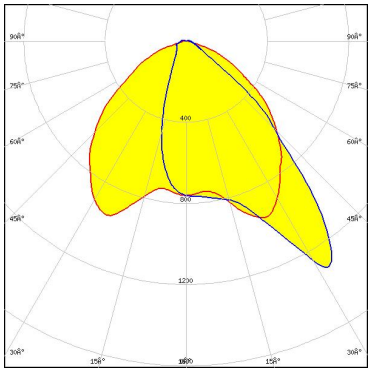
| | |
|---|---|
| LED | RLE G1 49x133mm 2000lm xxx EXC OTD |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

TRIDONIC

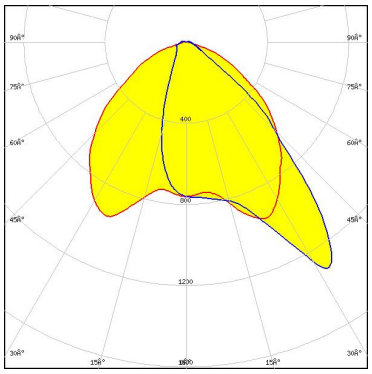
| | |
|---|---|
| LED | RLE G1 49x223mm 4000lm xxx EXC OTD |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

TRIDONIC

| | |
|---|---|
| LED | RLE G1 49x245mm 4000lm xxx EXC OTD |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



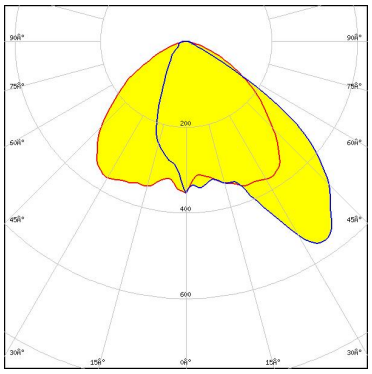
Light distribution files


LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

## OPTICAL RESULTS (SIMULATED):

CREE LEDs

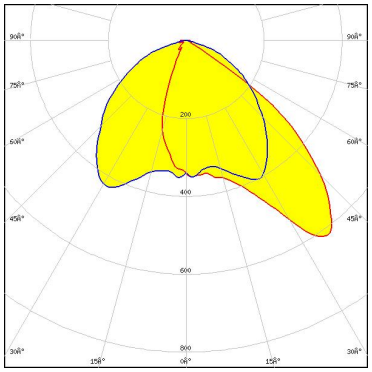
| | |
|---|---|
| LED | XHP35 HD |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

CREE LEDs

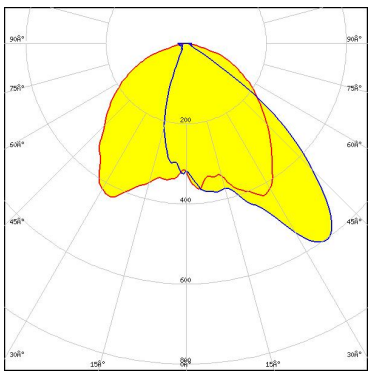
| | |
|---|---|
| LED | XP-G2 HE |
| FWHM / FWTM | Asymmetric |
| Efficiency | 95 % |
| Peak intensity | 0.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



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: | |



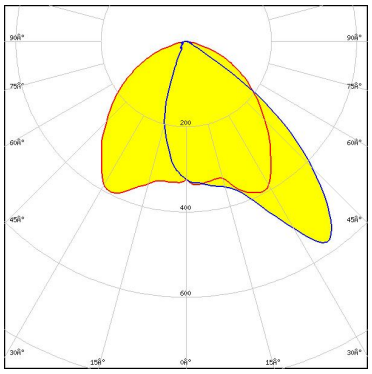
Light distribution files


LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

## OPTICAL RESULTS (SIMULATED):

CREE LEDs

| | |
|---|---|
| LED | XP-G3 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 85 % |
| Peak intensity | 0.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

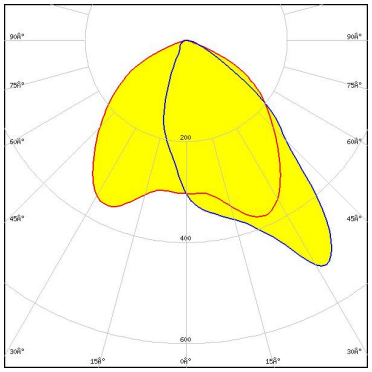


Protective plate, glass

Light distribution files

CREE LEDs

| | |
|---|---|
| LED | XP-G3 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 81 % |
| Peak intensity | 0.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |
| C17580_STRADA-2X2-SHD-WHT | |

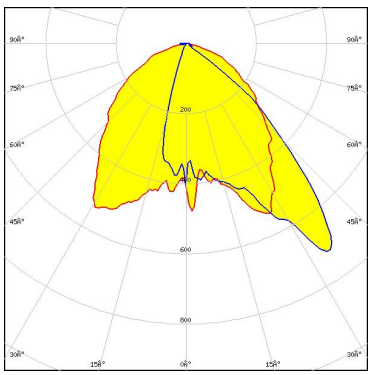


Light distribution files

Protective plate, glass

inventronics

| | |
|---|---|
| LED | PrevaLED Brick HP 2x8 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 93 % |
| Peak intensity | 0.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



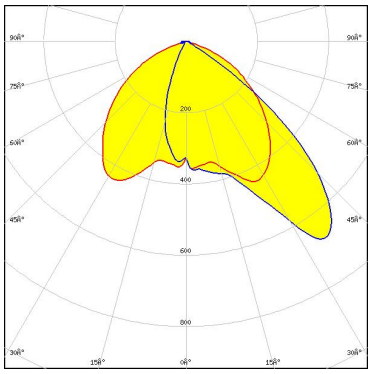
Light distribution files


LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

## OPTICAL RESULTS (SIMULATED):

LUMILEDS

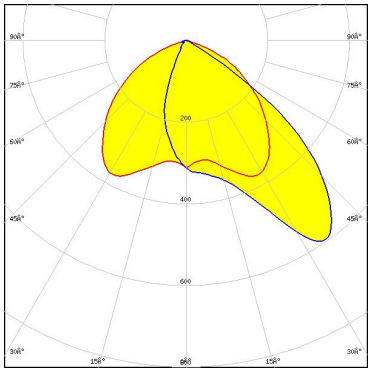
| | |
|---|---|
| LED | LUXEON HL2X |
| FWHM / FWTM | Asymmetric |
| Efficiency | 96 % |
| Peak intensity | 0.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

LUMILEDS

| | |
|---|---|
| LED | LUXEON HL2X-D |
| FWHM / FWTM | Asymmetric |
| Efficiency | 87 % |
| Peak intensity | 0.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

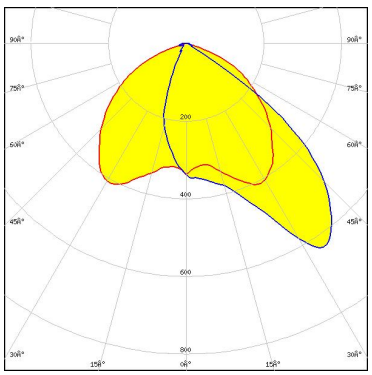


Protective plate, glass

Light distribution files

LUMILEDS

| | |
|---|---|
| LED | LUXEON HL2X-D |
| FWHM / FWTM | Asymmetric |
| Efficiency | 96 % |
| Peak intensity | 0.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



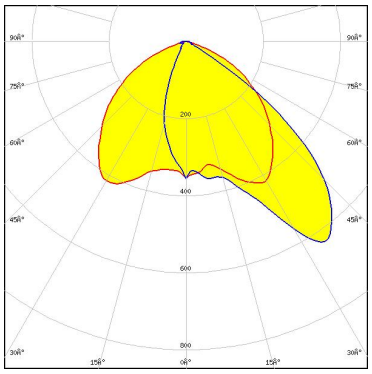
Light distribution files


LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

## OPTICAL RESULTS (SIMULATED):

LUMILEDS

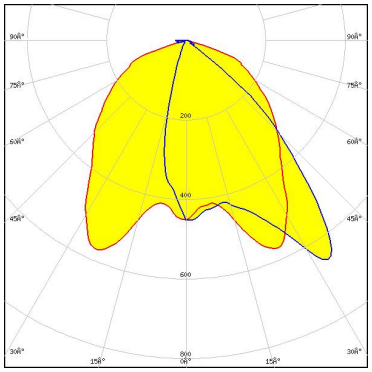
| | |
|---|---|
| LED | LUXEON HL2X-P |
| FWHM / FWTM | Asymmetric |
| Efficiency | 96 % |
| Peak intensity | 0.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

LUMILEDS

| | |
|---|---|
| LED | LUXEON HL2Z |
| FWHM / FWTM | Asymmetric |
| Efficiency | 96 % |
| Peak intensity | 0.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

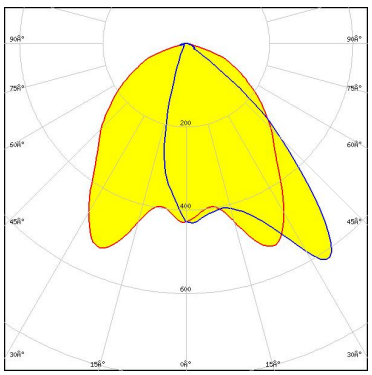


Light distribution files

LUMILEDS

| | |
|---|---|
| LED | LUXEON HL2Z |
| FWHM / FWTM | Asymmetric |
| Efficiency | 87 % |
| Peak intensity | 0.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

Protective plate, glass



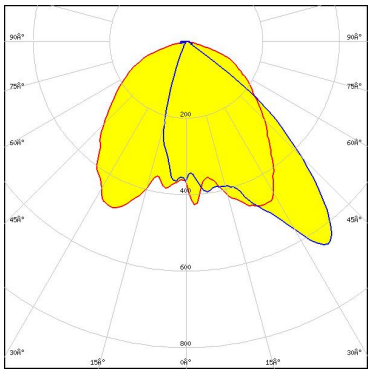
Light distribution files


LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

## OPTICAL RESULTS (SIMULATED):

LUMILEDS

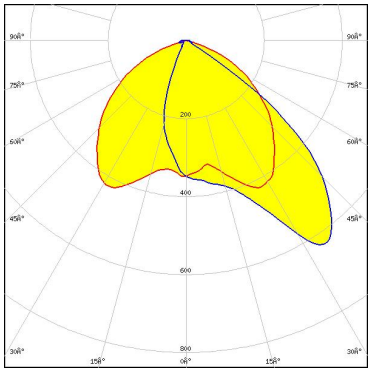
| | |
|---|---|
| LED | LUXEON T |
| FWHM / FWTM | Asymmetric |
| Efficiency | % |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

LUMILEDS

| | |
|---|---|
| LED | LUXEON XR-HL2X (L2H2-xxxxxxxMLU010) |
| FWHM / FWTM | Asymmetric |
| Efficiency | 96 % |
| Peak intensity | 0.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

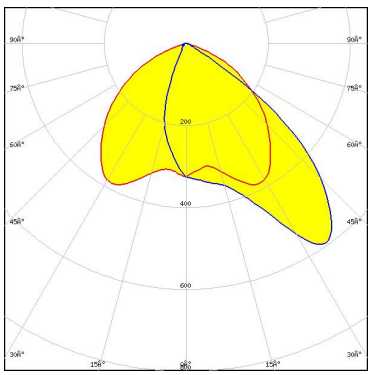


Light distribution files

LUMILEDS

| | |
|---|---|
| LED | LUXEON XR-HL2X (L2H2-xxxxxxxMLU010) |
| FWHM / FWTM | Asymmetric |
| Efficiency | 87 % |
| 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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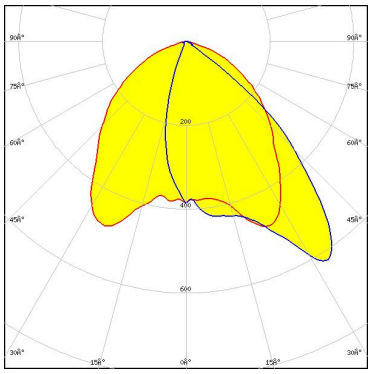
## OPTICAL RESULTS (SIMULATED):

NICHIA

| | |
|---|---|
| LED | NF2x757G |
| FWHM / FWTM | Asymmetric |
| Efficiency | 88 % |
| Peak intensity | 0.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

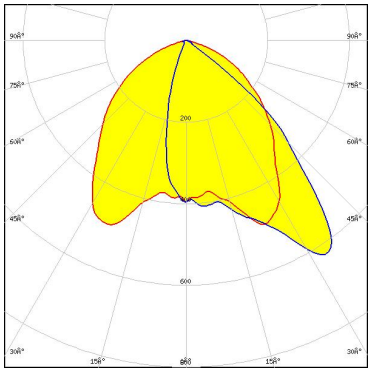


Protective plate, glass

Light distribution files

NICHIA

| | |
|---|---|
| LED | NFSx757G |
| FWHM / FWTM | Asymmetric |
| Efficiency | 87 % |
| Peak intensity | 0.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

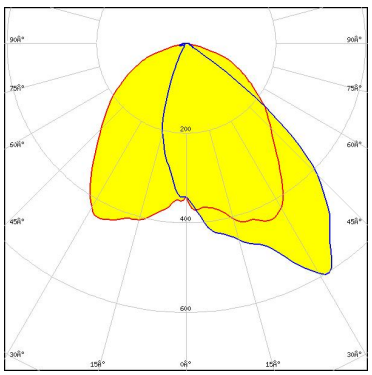


Protective plate, glass

Light distribution files

NICHIA

| | |
|---|---|
| LED | NV4WB35AM |
| FWHM / FWTM | Asymmetric |
| Efficiency | 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 (SIMULATED):

NICHIA

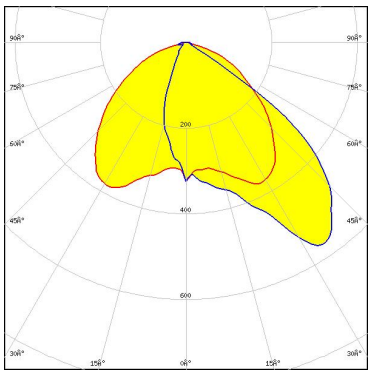
| | |
|---|---|
| LED | NVSW519A |
| FWHM / FWTM | Asymmetric |
| Efficiency | 89 % |
| Peak intensity | 0.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

Protective plate, glass

Light distribution files

NICHIA

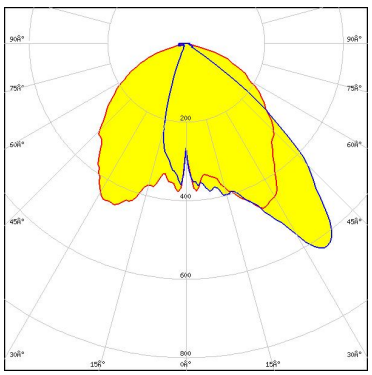
| | |
|---|---|
| LED | NVSW519A |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

NICHIA

| | |
|---|---|
| LED | NVSxx19B/NVSxx19C |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files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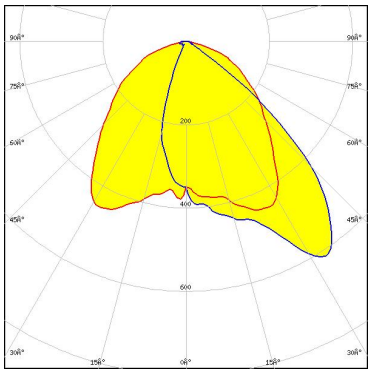
## OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

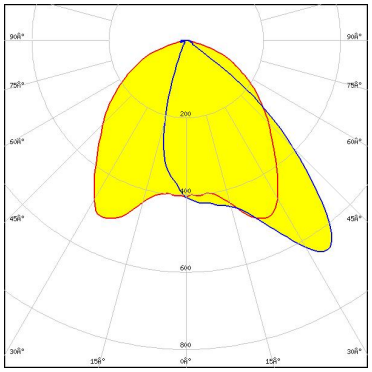
| | |
|---|---|
| LED | OSCONIQ P 3737 (3W version) |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

OSRAM
Opto Semiconductors

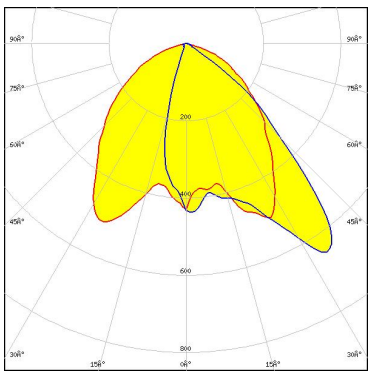
| | |
|---|---|
| LED | OSCONIQ P 3737 Flat |
| FWHM / FWTM | Asymmetric |
| Efficiency | 96 % |
| Peak intensity | 0.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | OSLON Square CSSRM2/CSSRM3 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 87 % |
| Peak intensity | 0.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Protective plate, glass

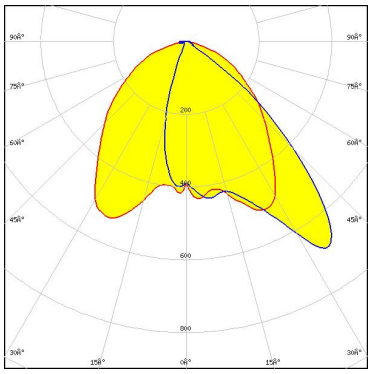
Light distribution files


LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

## OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

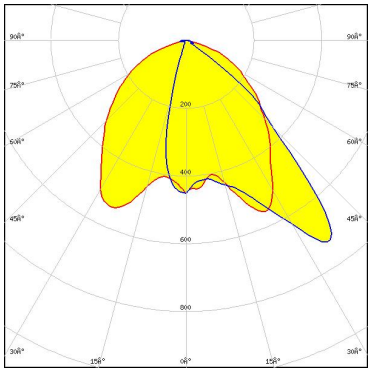
| | |
|---|---|
| LED | OSLON Square CSSRM2/CSSRM3 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 96 % |
| Peak intensity | 0.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

OSRAM
Opto Semiconductors

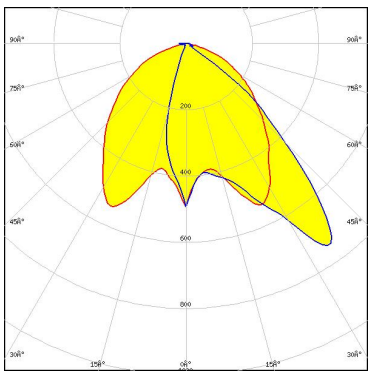
| | |
|---|---|
| LED | OSLON Square Flat |
| FWHM / FWTM | Asymmetric |
| Efficiency | 97 % |
| Peak intensity | 0.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | OSTAR Projection Compact (KW.CSLNM1.TG) |
| FWHM / FWTM | Asymmetric |
| Efficiency | 97 % |
| Peak intensity | 0.9 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files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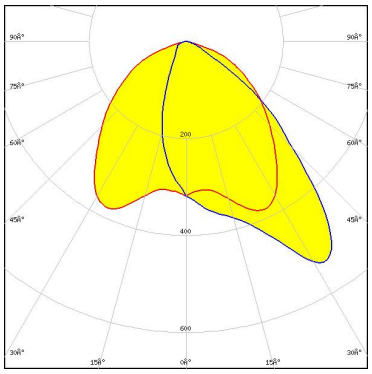
## OPTICAL RESULTS (SIMULATED):

PHILIPS

| | |
|---|---|
| LED | Fortimo FastFlex LED 2x8 DA G4+ |
| FWHM / FWTM | Asymmetric |
| Efficiency | 87 % |
| Peak intensity | 0.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

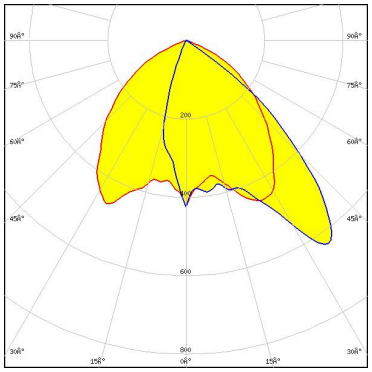


Protective plate, glass

Light distribution files

PHILIPS

| | |
|---|---|
| LED | Fortimo FastFlex LED 2x8 DA G4+ |
| FWHM / FWTM | Asymmetric |
| Efficiency | 81 % |
| Peak intensity | 0.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |
| C17677_STRADA-2X2-SHD-BLK | |

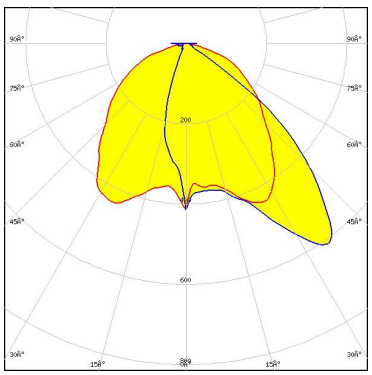


Light distribution files

Protective plate, glass

PHILIPS

| | |
|---|---|
| LED | Fortimo FastFlex LED 2x8 DAX G4 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files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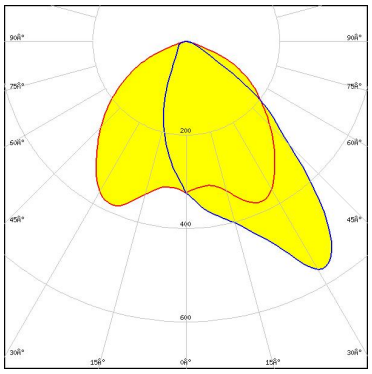
## OPTICAL RESULTS (SIMULATED):

SAMSUNG

| | |
|---|---|
| LED | HiLOM RH12 Z (LH351C) |
| FWHM / FWTM | Asymmetric |
| Efficiency | 88 % |
| Peak intensity | 0.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

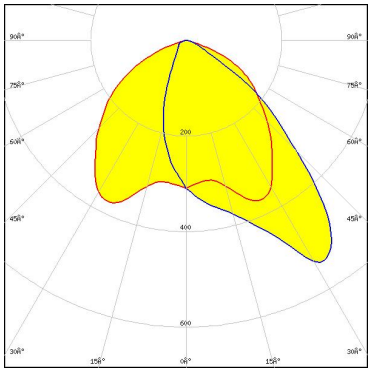


Protective plate, glass

Light distribution files

SAMSUNG

| | |
|---|---|
| LED | LH351B |
| FWHM / FWTM | Asymmetric |
| Efficiency | 86 % |
| Peak intensity | 0.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

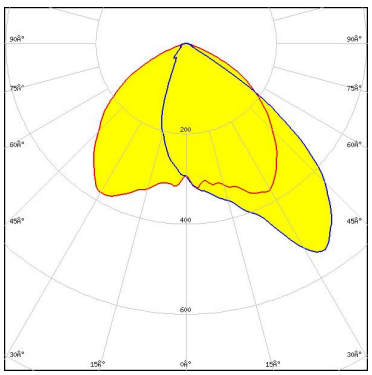


Protective plate, glass

Light distribution files

SAMSUNG

| | |
|---|---|
| LED | LH351D |
| FWHM / FWTM | Asymmetric |
| Efficiency | 88 % |
| 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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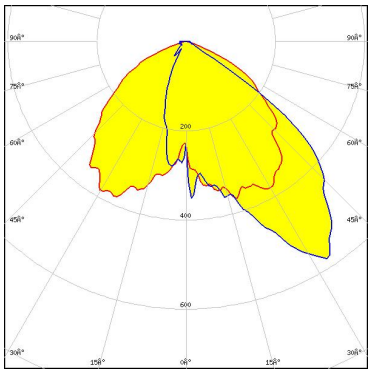
## OPTICAL RESULTS (SIMULATED):

SAMSUNG

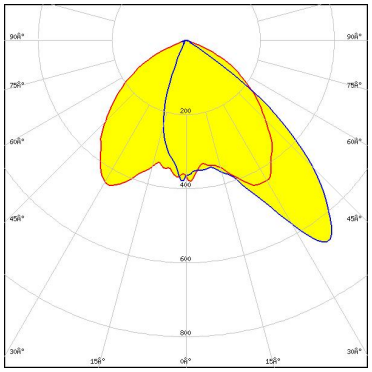
| | |
|---|---|
| LED | LH351D |
| FWHM / FWTM | Asymmetric |
| Efficiency | 93 % |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

SEOUL SEMICONDUCTOR

| | |
|---|---|
| LED | Z5M3-E1 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 88 % |
| Peak intensity | 0.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

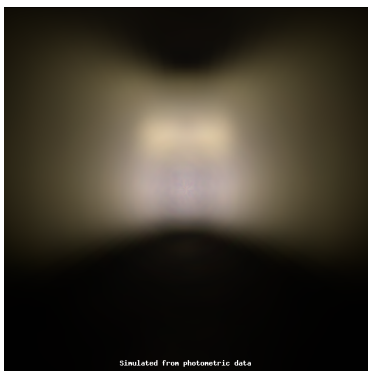


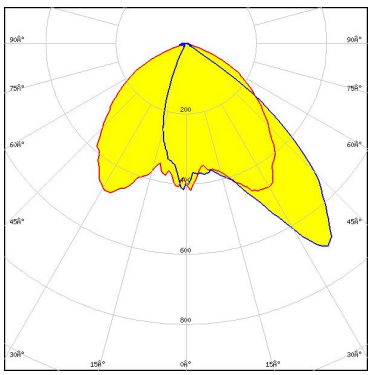
Protective plate, glass

Light distribution files

SEOUL SEMICONDUCTOR

| | |
|---|---|
| LED | Z5M3-E1 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 97 % |
| Peak intensity | 0.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files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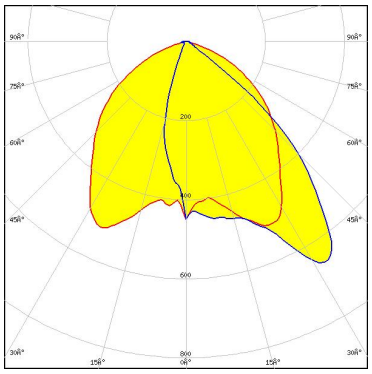
## OPTICAL RESULTS (SIMULATED):

SEOUL SEMICONDUCTOR

| | |
|---|---|
| LED | Z5M4 |
| 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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## 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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