# SURI-RS

**~6° real spot beam with holder**

## SPECIFICATION:

| | |
|---|---|
| Dimensions | Ø 37.8 |
| Height | 23.9 mm |
| Fastening | pin, screw |
| ROHS compliant | yes |

## MATERIALS:

| Component | Type | Material | Colour | Finish | Length (mm) |
|---|---|---|---|---|---|
| GABRIELLA-MIDI-HLD | Holder | PC | black | | |
| SURI-RS | Single lens | PMMA | clear | | |

## ORDERING INFORMATION:

**Quantities for one set:**

| | |
|---|---|
| Single lens | 1 |
| Holder | 1 |


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| Component | | Qty in box | MOQ | MPQ | Box weight (kg) |
|---|---|---|---|---|---|
| C16197_SURI-RS<br>» Box size: 476 x 273 x 292 mm | Single lens | 500 | 100 | 50 | 7.4 |
| C16192_GABRIELLA-MIDI-HLD<br>» Box size: 476 x 273 x 292 mm | Holder | 500 | 100 | 50 | 3.6 |


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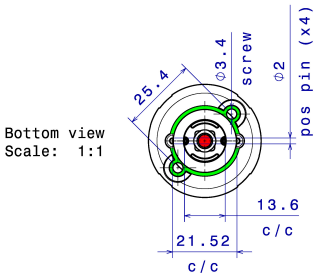
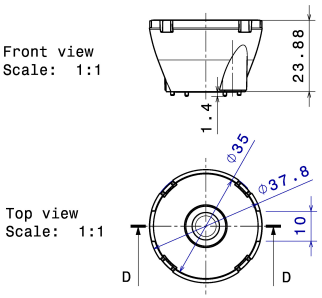
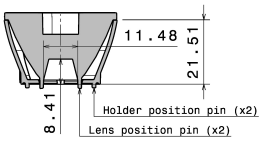
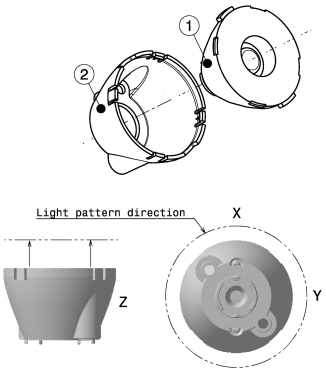



Section view D-D
Scale: 1:1




CN16212_SURI-RS

**COMPONENTS**

| INDEX | PRODUCT | TYPE | MATERIAL | COLOUR/COATING |
|---|---|---|---|---|
| 1 | C16197_SURI-RS | LENS | PMMA | CLEAR |
| 2 | C16192_GABRIELLA-MIDI-HLD | HOLDER | PC | BLACK |
| | | | | |

**Notes**

| | |
|---|---|
| 🟢 | PCB or Heat Sink level |
| 🔴 | Led location see marking. |
| | Ensure LED fitting, see our web site and/or 3D model for part detail. |
| | |
| | |

**MECHANICAL DRAWING**

PRODUCT
SURI-RS

Tolerances if not otherwise shown
According to DIN ISO 2768-1
Linear measures:
Up to 30mm class M, otherwise class C.
According to DIN ISO 2768-2
Form and position: class L

FIRST ANGLE PROJECTION:

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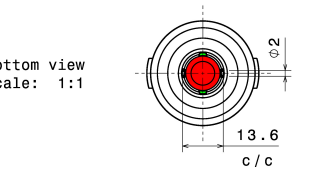
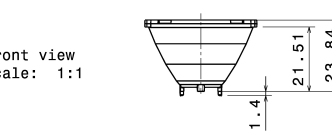
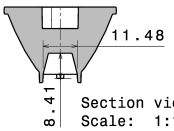
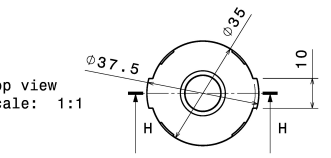
SCALE 1:1 | SIZE A3 | SHEET 1/3

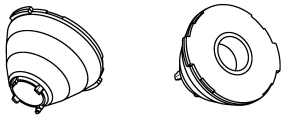



Section view H-H
Scale: 1:1



Isometric view
Scale: 1:1

**COMPONENTS**

| INDEX | PRODUCT | TYPE | MATERIAL | COLOUR/COATING |
|---|---|---|---|---|
| 1 | C16197_SURI-RS | LENS | PMMA | CLEAR |
| | | | | |

**Notes**

| | |
|---|---|
| 🟢 | PCB or Heat Sink level |
| 🔴 | Led location see marking. |
| | Ensure LED fitting, see our web site and/or 3D model for part detail. |
| | |
| | |

**MECHANICAL DRAWING**

PRODUCT
SURI-RS

Tolerances if not otherwise shown
According to DIN ISO 2768-1
Linear measures:
Up to 30mm class M, otherwise class C.
According to DIN ISO 2768-2
Form and position: class L

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


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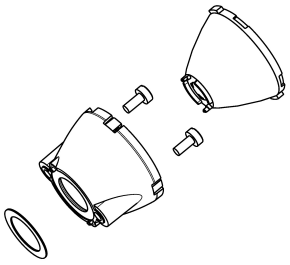
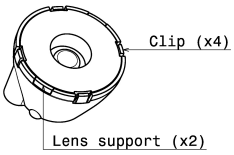


1. Place holder on PCB using the holder location pins as guide elements. Holder is fixed either by with on-board PU-tape or M3 screw with max 0.6Nm torgue.

2. Place lens support features into relative holes in the holder, please note that the location pins on the lens goes through the PCB.

3.Press optic until 4 clips each locked.



| MECHANICAL DRAWING | | LEDiL® |
|---|---|---|
| PRODUCT SURI-RS | | |
| Tolerances if not otherwise shown<br>According to DIN ISO 2768-1<br>Linear measures:<br>Up to 30mm class M, otherwise class C.<br>According to DIN ISO 2768-2<br>Form and position: class L | 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 1:1 | SIZE A3 | SHEET 3/3 |

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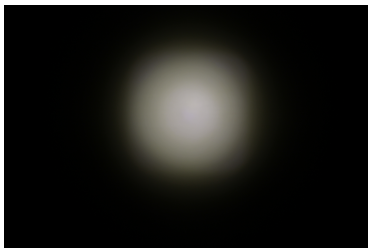
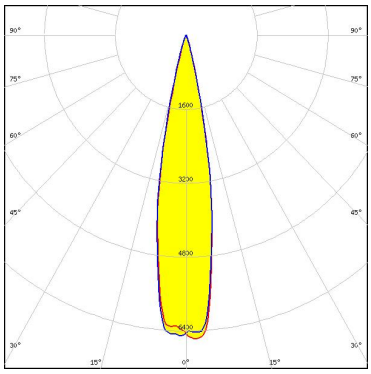
## OPTICAL RESULTS (MEASURED):

CREE LEDs

| | |
|---|---|
| LED | XHP70.2 |
| FWHM / FWTM | 20.0° / 32.0° |
| Efficiency | 88 % |
| Peak intensity | 6.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

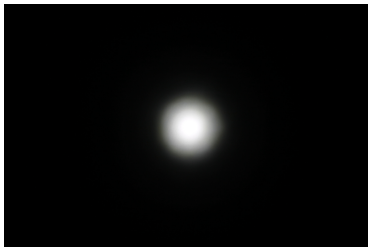


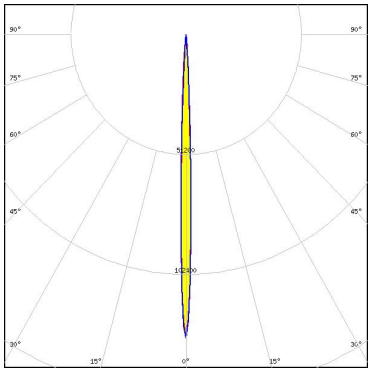


Light distribution files

CREE LEDs

| | |
|---|---|
| LED | XQ-E HI |
| FWHM / FWTM | 4.0° / 8.0° |
| Efficiency | 91 % |
| Peak intensity | 129.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

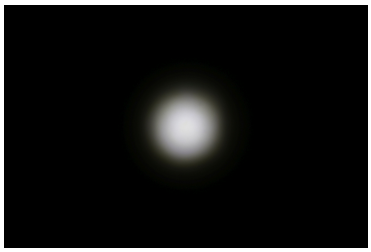


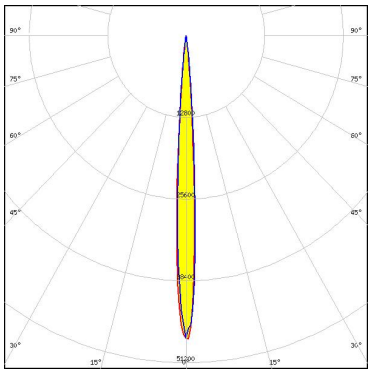


Light distribution files

CREE LEDs

| | |
|---|---|
| LED | XT-E |
| FWHM / FWTM | 7.0° / 12.0° |
| Efficiency | 86 % |
| Peak intensity | 47.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |





Light distribution files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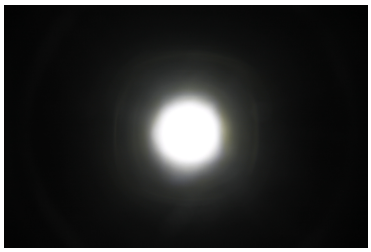
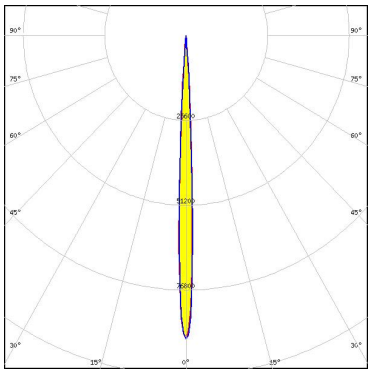
## OPTICAL RESULTS (MEASURED):

LUMILEDS

| | |
|---|---|
| LED | LUXEON C |
| FWHM / FWTM | 5.0° / 9.0° |
| Efficiency | 86 % |
| Peak intensity | 91.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

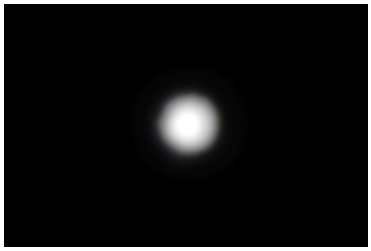


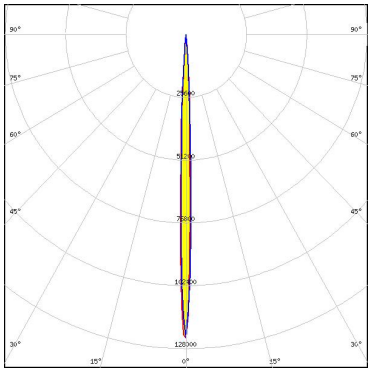


Light distribution files

LUMILEDS

| | |
|---|---|
| LED | LUXEON CZ |
| FWHM / FWTM | 4.0° / 9.0° |
| Efficiency | 93 % |
| Peak intensity | 124 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

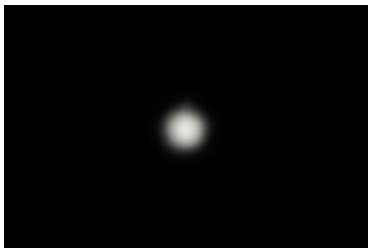


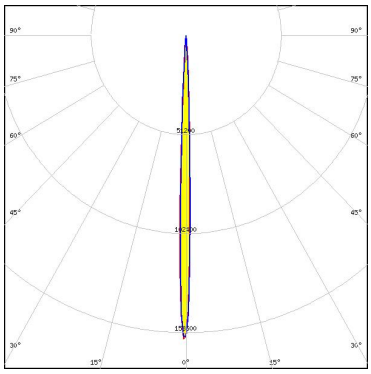


Light distribution files

LUMILEDS

| | |
|---|---|
| LED | LUXEON Z |
| FWHM / FWTM | 4.0° / 7.0° |
| Efficiency | 92 % |
| Peak intensity | 158 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |





Light distribution files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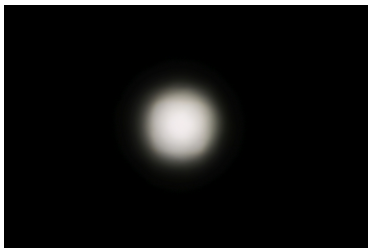
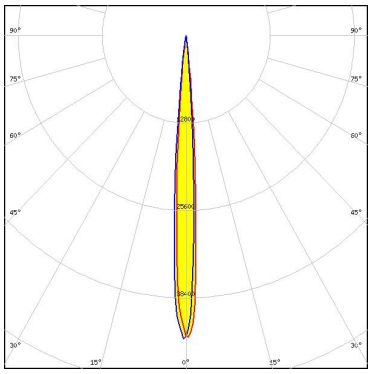
## OPTICAL RESULTS (MEASURED):

NICHIA

| | |
|---|---|
| LED | NVSW219F-V2 |
| FWHM / FWTM | 7.0° / 13.0° |
| Efficiency | 92 % |
| Peak intensity | 46 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

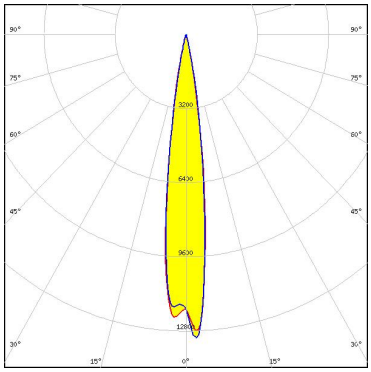




Light distribution files

OSRAM
Opto Semiconductors

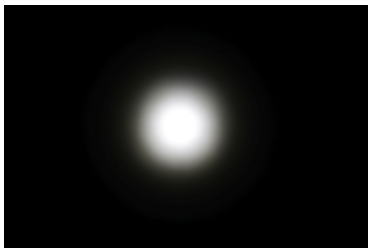
| | |
|---|---|
| LED | Duris S8 |
| FWHM / FWTM | 14.0° / 24.0° |
| Efficiency | 90 % |
| Peak intensity | 13.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

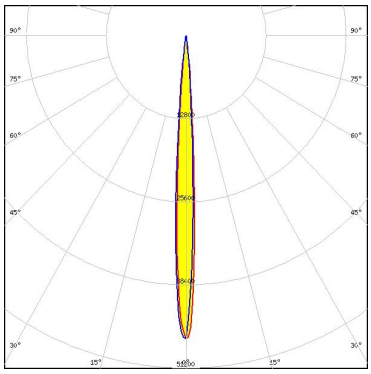


Light distribution files

OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | OSCONIQ P 3737 (2W) PUSRA1 |
| FWHM / FWTM | 7.0° / 13.0° |
| Efficiency | 90 % |
| Peak intensity | 47.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |





Light distribution files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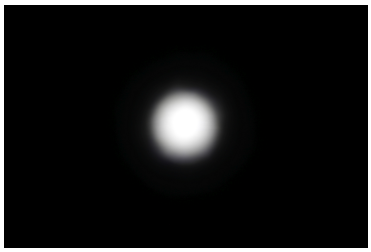
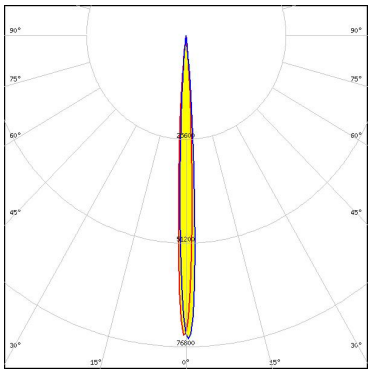
## OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | OSLON Boost HX (KW CULPM1.TG) |
| FWHM / FWTM | 6.0° / 11.0° |
| Efficiency | 92 % |
| Peak intensity | 75.2 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

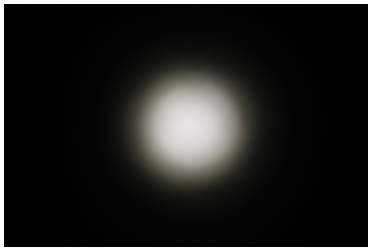


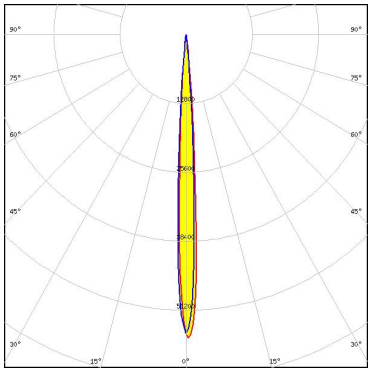


Light distribution files

OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | OSLON Square EC |
| FWHM / FWTM | 6.0° / 12.0° |
| Efficiency | 90 % |
| Peak intensity | 56 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

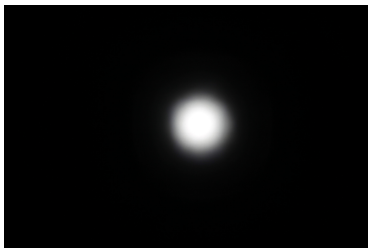


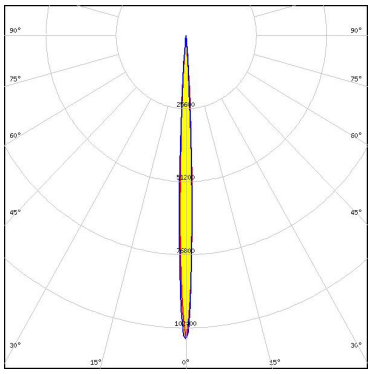


Light distribution files

OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | OSLON SSL 150 |
| FWHM / FWTM | 5.0° / 9.0° |
| Efficiency | 93 % |
| Peak intensity | 106 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |





Light distribution files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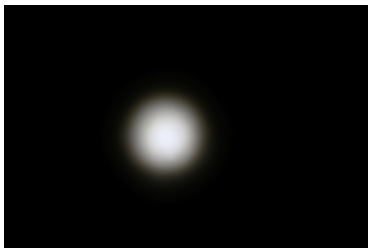
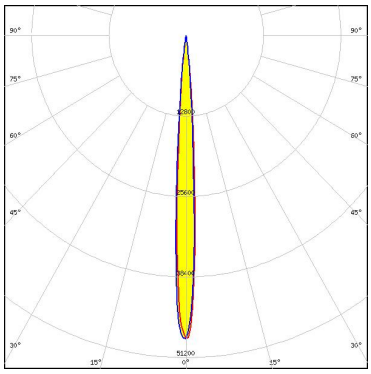
## OPTICAL RESULTS (MEASURED):

SAMSUNG

| | |
|---|---|
| LED | LH181B |
| FWHM / FWTM | 7.0° / 13.0° |
| Efficiency | 91 % |
| Peak intensity | 48.2 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

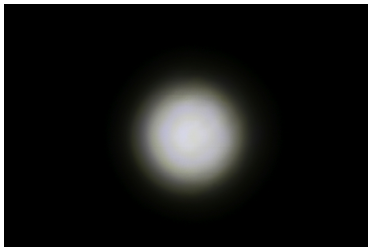


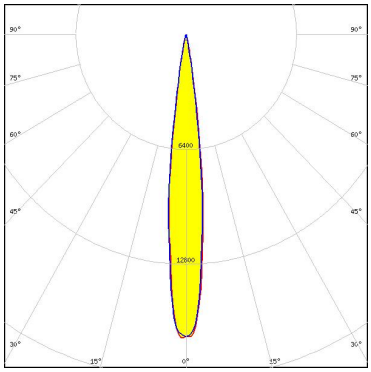


Light distribution files

SAMSUNG

| | |
|---|---|
| LED | LH508A |
| FWHM / FWTM | 13.0° / 21.0° |
| Efficiency | 91 % |
| Peak intensity | 16.9 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

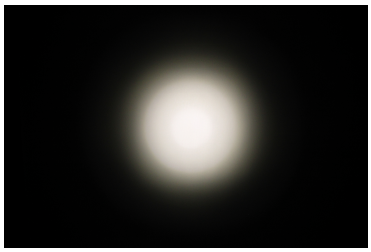


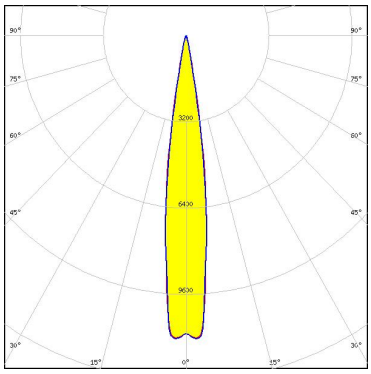


Light distribution files

SEOUL SEMICONDUCTOR

| | |
|---|---|
| LED | WICOP 5050 |
| FWHM / FWTM | 15.0° / 24.0° |
| Efficiency | 86 % |
| Peak intensity | 11.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |





Light distribution files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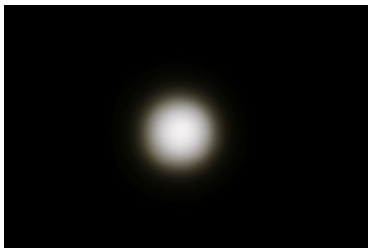
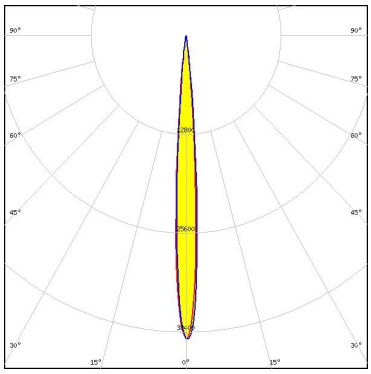
## OPTICAL RESULTS (MEASURED):

SEOUL SEMICONDUCTOR

| | |
|---|---|
| LED | Z5M3 |
| FWHM / FWTM | 8.0° / 14.0° |
| Efficiency | 90 % |
| Peak intensity | 39.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |






Light distribution files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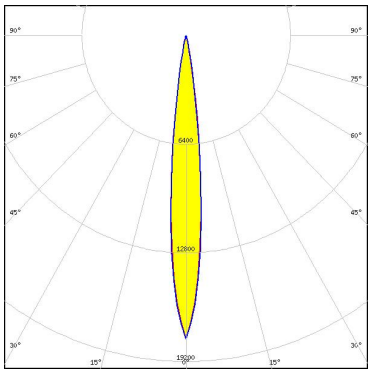
## OPTICAL RESULTS (SIMULATED):

bridgelux

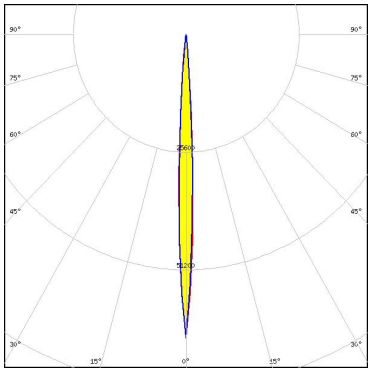
| | |
|---|---|
| LED | Bridgelux SMD 5050 |
| FWHM / FWTM | 12.0° / 22.0° |
| Efficiency | 93 % |
| Peak intensity | 17.9 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

CREE LEDs

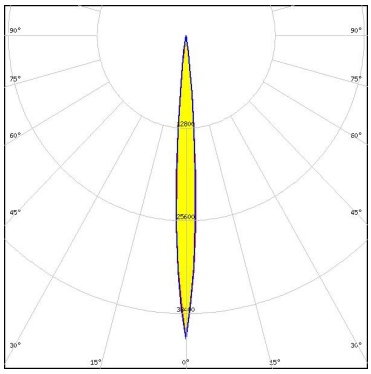
| | |
|---|---|
| LED | XD16 |
| FWHM / FWTM | 6.0° / 11.0° |
| Efficiency | 87 % |
| Peak intensity | 66 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

CREE LEDs

| | |
|---|---|
| LED | XHP35 HI |
| FWHM / FWTM | 8.0° / 14.0° |
| Efficiency | 91 % |
| Peak intensity | 41.9 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files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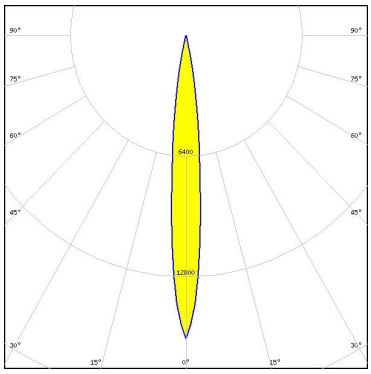
## OPTICAL RESULTS (SIMULATED):

CREE LEDs

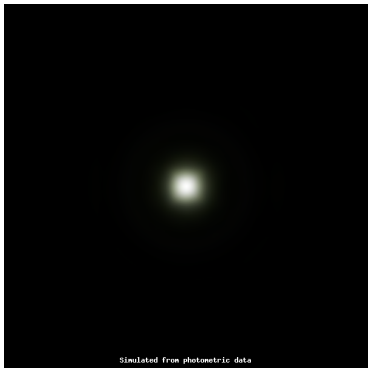
| | |
|---|---|
| LED | XHP35.2 HD |
| FWHM / FWTM | 12.0° / 22.0° |
| Efficiency | 89 % |
| Peak intensity | 16.1 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

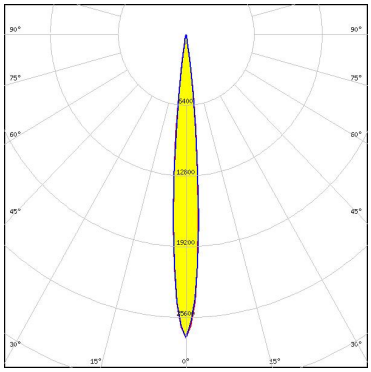


Light distribution files

CREE LEDs

| | |
|---|---|
| LED | XHP35.2 HI |
| FWHM / FWTM | 10.0° / 16.0° |
| Efficiency | 91 % |
| Peak intensity | 27.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

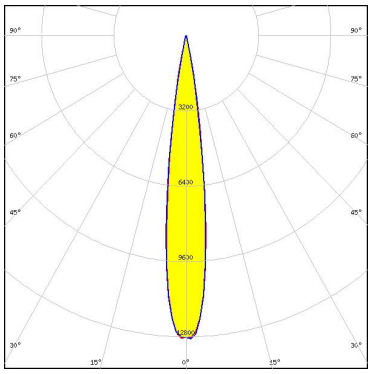


Light distribution files

CREE LEDs

| | |
|---|---|
| LED | XHP50.2 |
| FWHM / FWTM | 14.0° / 24.0° |
| Efficiency | 89 % |
| Peak intensity | 13 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files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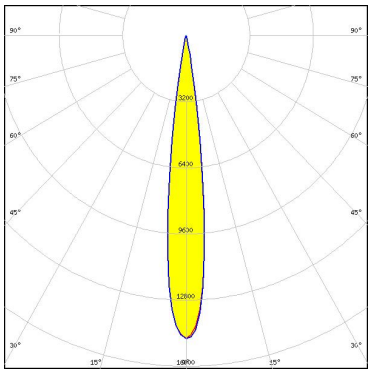
## OPTICAL RESULTS (SIMULATED):

CREE LEDs

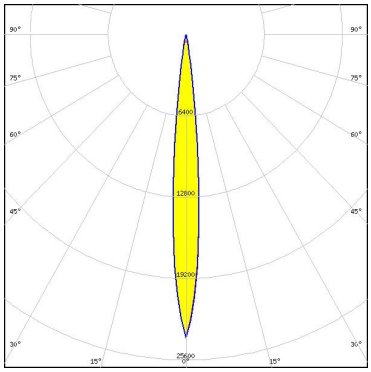
| | |
|---|---|
| LED | XHP50.3 HD |
| FWHM / FWTM | 14.0° / 22.0° |
| Efficiency | 89 % |
| Peak intensity | 14.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

CREE LEDs

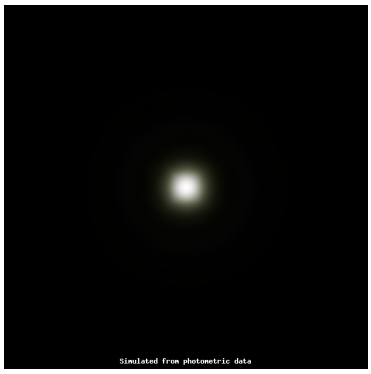
| | |
|---|---|
| LED | XHP50.3 HI |
| FWHM / FWTM | 10.0° / 18.0° |
| Efficiency | 91 % |
| Peak intensity | 23.9 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

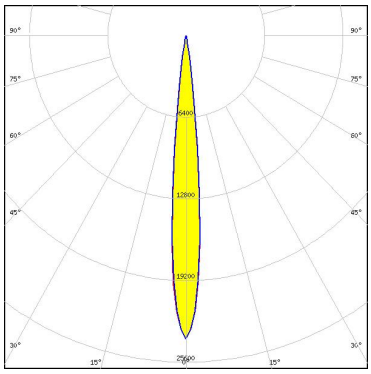


Light distribution files

CREE LEDs

| | |
|---|---|
| LED | XHP50.3 HI |
| FWHM / FWTM | 10.0° / 18.0° |
| Efficiency | 91 % |
| Peak intensity | 23.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files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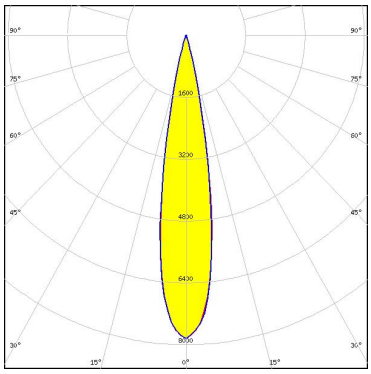
## OPTICAL RESULTS (SIMULATED):

CREE LEDs

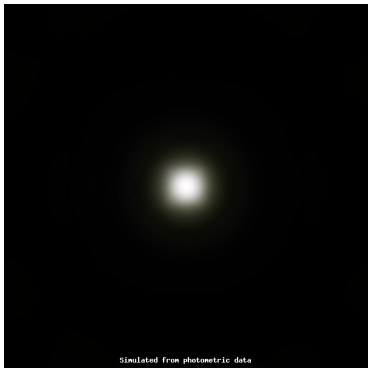
| | |
|---|---|
| LED | XHP70.3 HD |
| FWHM / FWTM | 18.0° / 30.0° |
| Efficiency | 88 % |
| Peak intensity | 7.9 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

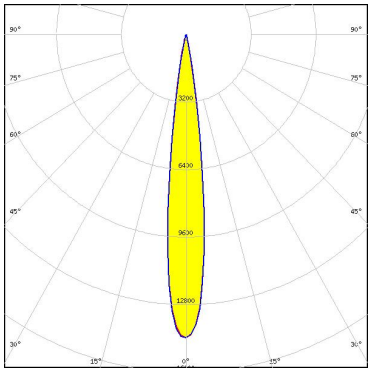


Light distribution files

CREE LEDs

| | |
|---|---|
| LED | XHP70.3 HI |
| FWHM / FWTM | 14.0° / 22.0° |
| Efficiency | 91 % |
| Peak intensity | 14.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

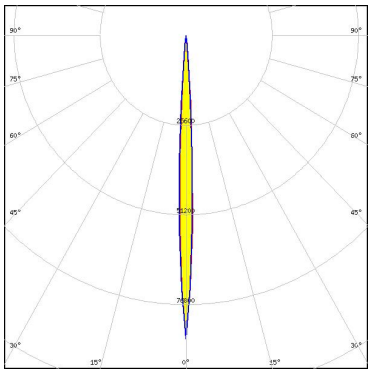


Light distribution files

CREE LEDs

| | |
|---|---|
| LED | XP-E2 |
| FWHM / FWTM | 5.0° / 10.0° |
| Efficiency | 91 % |
| Peak intensity | 85 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files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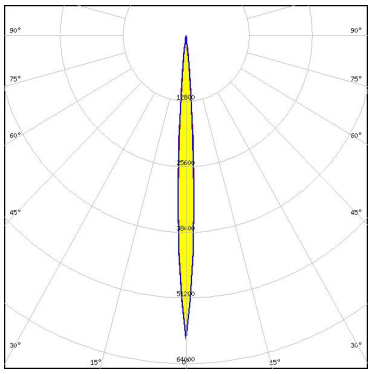
## OPTICAL RESULTS (SIMULATED):

CREE LEDs

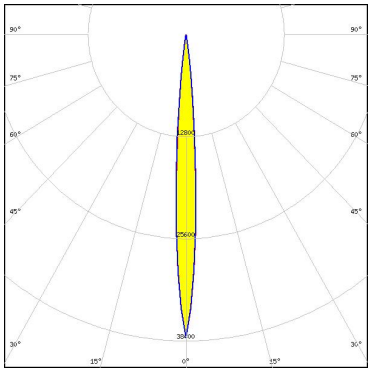
| | |
|---|---|
| LED | XP-G2 |
| FWHM / FWTM | 6.0° / 12.0° |
| Efficiency | 91 % |
| Peak intensity | 58 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

CREE LEDs

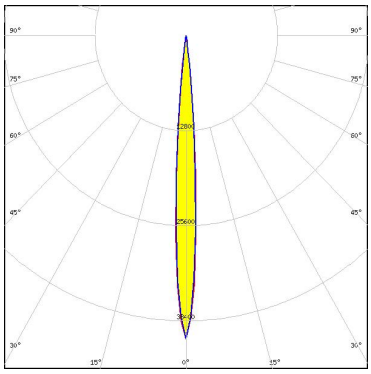
| | |
|---|---|
| LED | XP-G2 HE |
| FWHM / FWTM | 8.0° / 16.0° |
| Efficiency | 91 % |
| Peak intensity | 38 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

CREE LEDs

| | |
|---|---|
| LED | XP-G3 |
| FWHM / FWTM | 7.7° / 14.0° |
| Efficiency | 90 % |
| Peak intensity | 40.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files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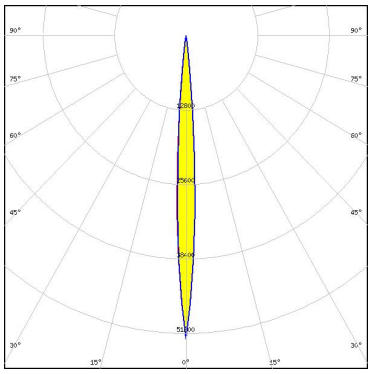
## OPTICAL RESULTS (SIMULATED):

CREE LEDs

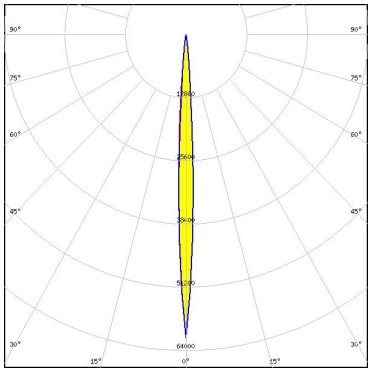
| | |
|---|---|
| LED | XP-G4 |
| FWHM / FWTM | 6.0° / 14.0° |
| Efficiency | 92 % |
| Peak intensity | 52.1 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

CREE LEDs

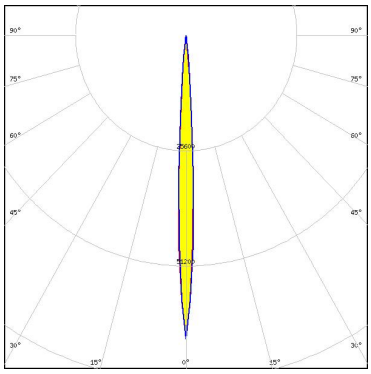
| | |
|---|---|
| LED | XP-G4 HI |
| FWHM / FWTM | 6.0° / 12.0° |
| Efficiency | 90 % |
| Peak intensity | 61.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

CREE LEDs

| | |
|---|---|
| LED | XP-G4 HI |
| FWHM / FWTM | 6.0° / 12.0° |
| Efficiency | 90 % |
| Peak intensity | 67.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files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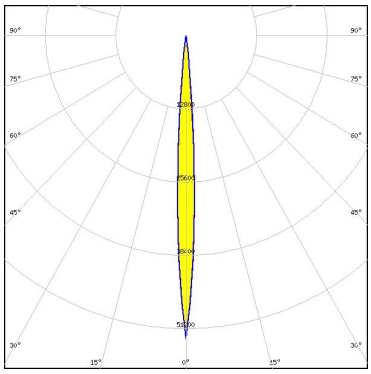
## OPTICAL RESULTS (SIMULATED):

CREE LEDs

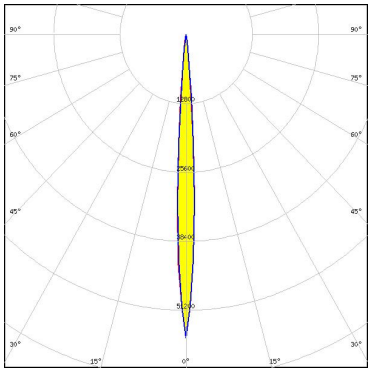
| | |
|---|---|
| LED | XP-L HI |
| FWHM / FWTM | 6.0° / 12.0° |
| Efficiency | 91 % |
| Peak intensity | 53 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

CREE LEDs

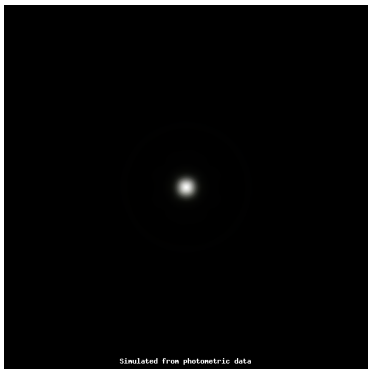
| | |
|---|---|
| LED | XP-L HI |
| FWHM / FWTM | 6.0° / 12.0° |
| Efficiency | 91 % |
| Peak intensity | 56.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

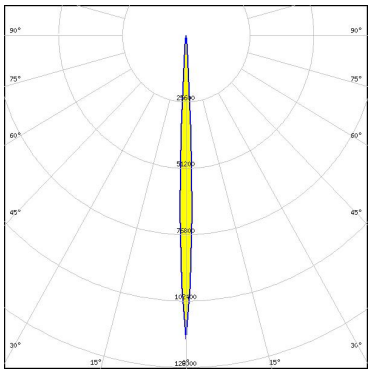


Light distribution files

CREE LEDs

| | |
|---|---|
| LED | XP-P |
| FWHM / FWTM | 4.0° / 8.0° |
| Efficiency | 91 % |
| Peak intensity | 117 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files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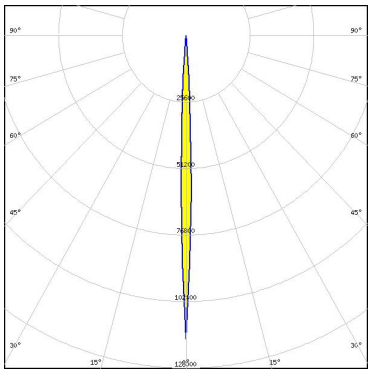
## OPTICAL RESULTS (SIMULATED):

CREE LEDs

| | |
|---|---|
| LED | XP-P |
| FWHM / FWTM | 4.0° / 8.0° |
| Efficiency | 86 % |
| Peak intensity | 116.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

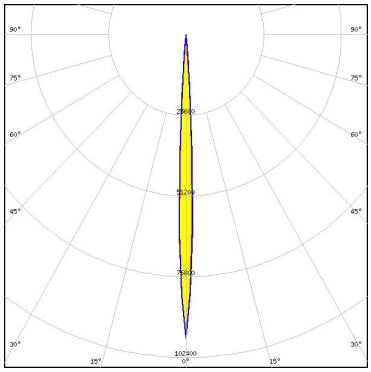
Protective plate, glass



Light distribution files

CREE LEDs

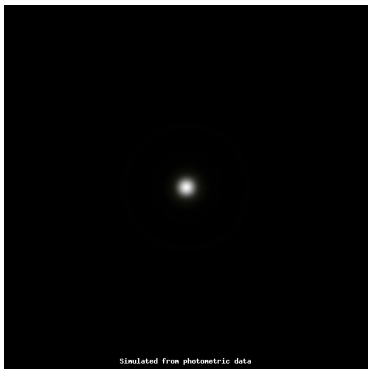
| | |
|---|---|
| LED | XQ-E HD |
| FWHM / FWTM | 5.2° / 9.5° |
| Efficiency | 92 % |
| Peak intensity | 96.2 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

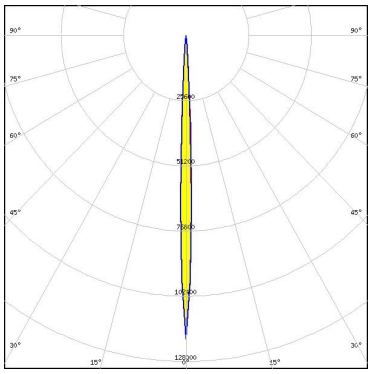


Light distribution files

CREE LEDs

| | |
|---|---|
| LED | XQ-E HI |
| FWHM / FWTM | 4.0° / 8.0° |
| Efficiency | 89 % |
| Peak intensity | 119.2 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files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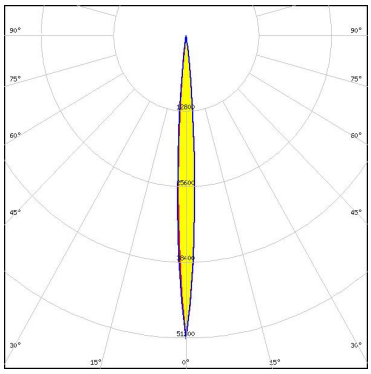
## OPTICAL RESULTS (SIMULATED):

LUMILEDS

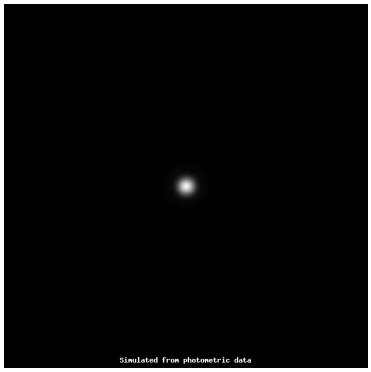
| | |
|---|---|
| LED | LUXEON 3030 2D (Round LES) |
| FWHM / FWTM | 6.0° / 14.0° |
| Efficiency | 90 % |
| Peak intensity | 51.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

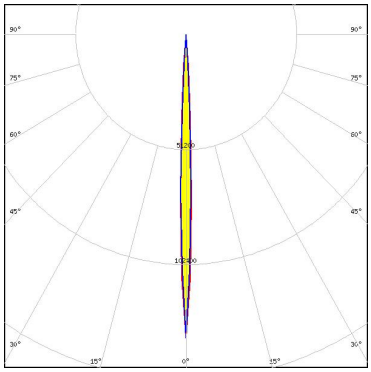


Light distribution files

LUMILEDS

| | |
|---|---|
| LED | LUXEON Altilon intense 1x1 |
| FWHM / FWTM | 4.0° / 8.0° |
| Efficiency | 90 % |
| Peak intensity | 135 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

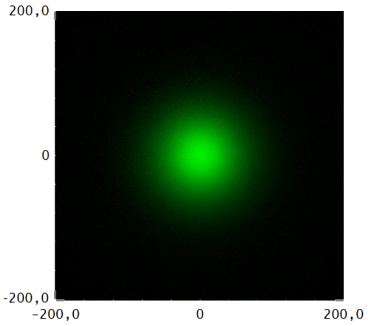


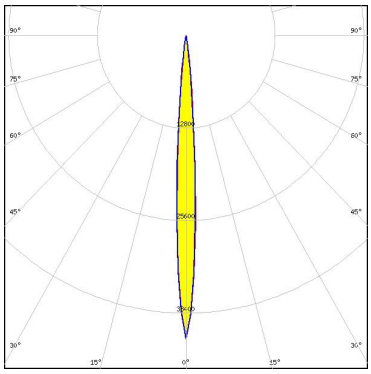



Light distribution files

LUMILEDS

| | |
|---|---|
| LED | LUXEON CZ |
| FWHM / FWTM | 8.0° / 14.0° |
| Efficiency | 92 % |
| Peak intensity | 42 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | Green |
| Required components: | |



Light distribution files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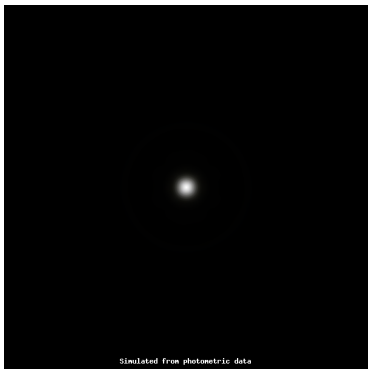
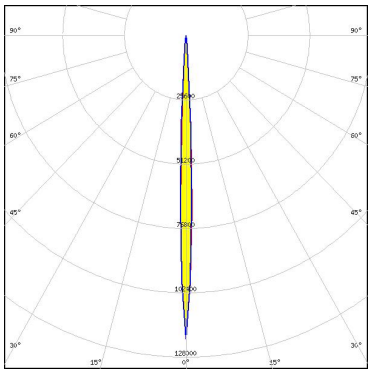
## OPTICAL RESULTS (SIMULATED):

LUMILEDS

| | |
|---|---|
| LED | LUXEON CZ |
| FWHM / FWTM | 4.0° / 8.0° |
| Efficiency | 90 % |
| Peak intensity | 120.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

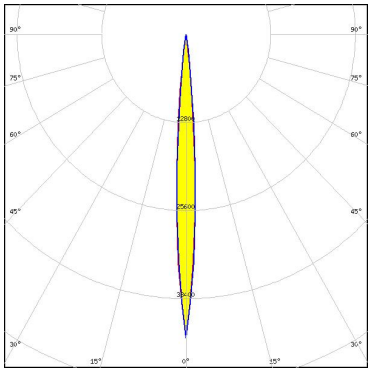


Light distribution files

LUMILEDS

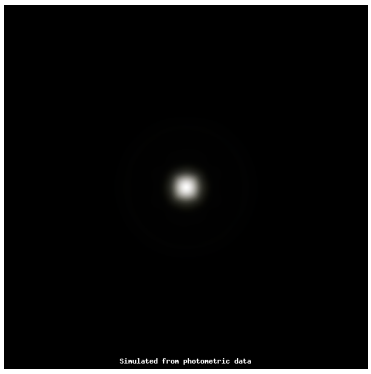
| | |
|---|---|
| LED | LUXEON HL2X |
| FWHM / FWTM | 8.0° / 14.0° |
| Efficiency | 91 % |
| Peak intensity | 44.1 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

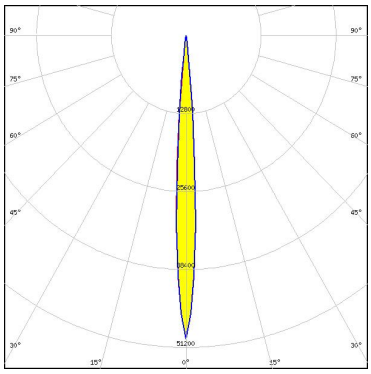


Light distribution files

LUMILEDS

| | |
|---|---|
| LED | LUXEON HL4Z |
| FWHM / FWTM | 8.0° / 12.0° |
| Efficiency | 92 % |
| Peak intensity | 49.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files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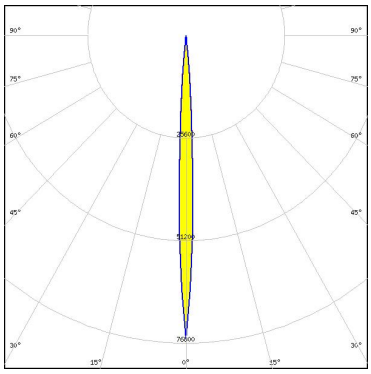
## OPTICAL RESULTS (SIMULATED):

LUMILEDS

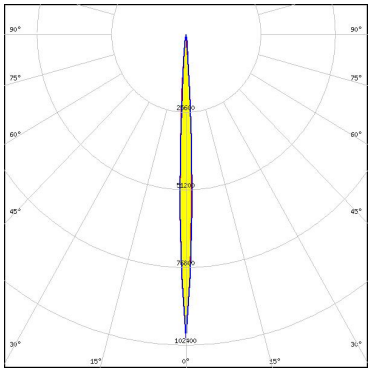
| | |
|---|---|
| LED | LUXEON Rebel Plus |
| FWHM / FWTM | 6.0° / 10.0° |
| Efficiency | 91 % |
| Peak intensity | 75.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

LUMILEDS

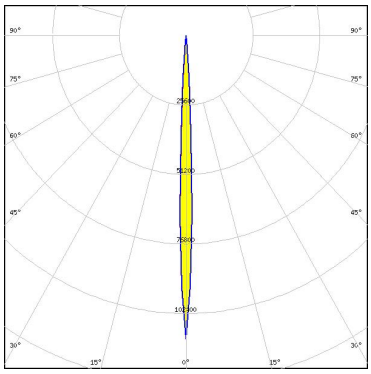
| | |
|---|---|
| LED | LUXEON Rubix |
| FWHM / FWTM | 4.0° / 10.0° |
| Efficiency | 91 % |
| Peak intensity | 100.1 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | Green |
| Required components: | |



Light distribution files

LUMILEDS

| | |
|---|---|
| LED | LUXEON Rubix |
| FWHM / FWTM | 4.0° / 10.0° |
| Efficiency | 91 % |
| Peak intensity | 97.1 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



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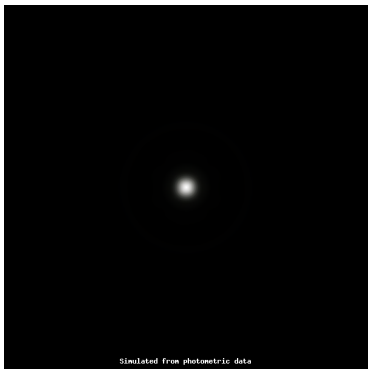
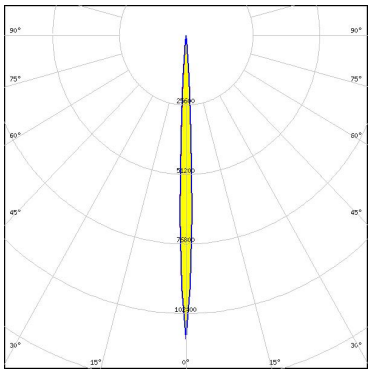
## OPTICAL RESULTS (SIMULATED):

LUMILEDS

| | |
|---|---|
| LED | LUXEON Rubix |
| FWHM / FWTM | 4.0° / 8.0° |
| Efficiency | 90 % |
| Peak intensity | 111.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

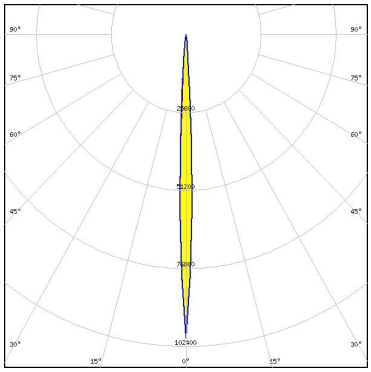


Light distribution files

LUMILEDS

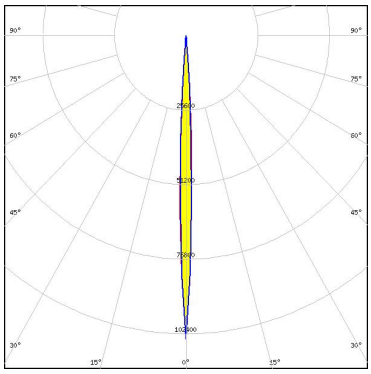
| | |
|---|---|
| LED | LUXEON Rubix |
| FWHM / FWTM | 4.0° / 10.0° |
| Efficiency | 91 % |
| Peak intensity | 99.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | Blue |
| Required components: | |



Light distribution files

LUMILEDS

| | |
|---|---|
| LED | LUXEON Rubix |
| FWHM / FWTM | 4.0° / 10.0° |
| Efficiency | 91 % |
| Peak intensity | 104.2 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | Red |
| Required components: | |



Light distribution files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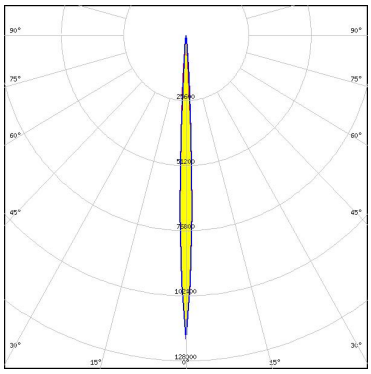
## OPTICAL RESULTS (SIMULATED):

LUMINUS

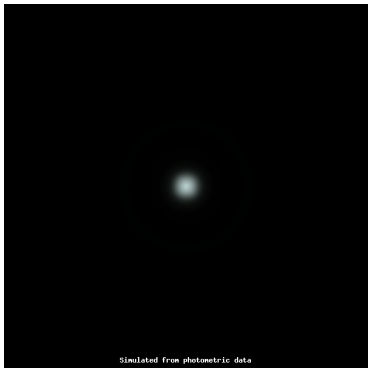
| | |
|---|---|
| LED | SFT-12R-W-A |
| FWHM / FWTM | 4.0° / 8.0° |
| Efficiency | 90 % |
| Peak intensity | 119.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

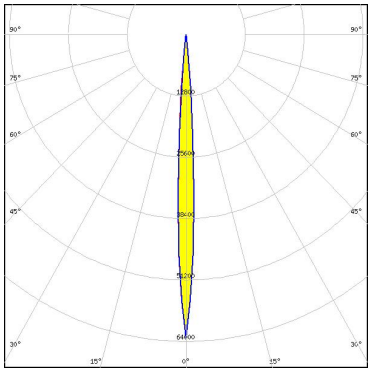


Light distribution files

LUMINUS

| | |
|---|---|
| LED | SFT-40 Gen2 |
| FWHM / FWTM | 6.0° / 12.0° |
| Efficiency | 92 % |
| Peak intensity | 63.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

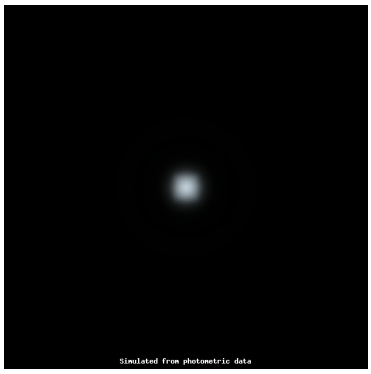


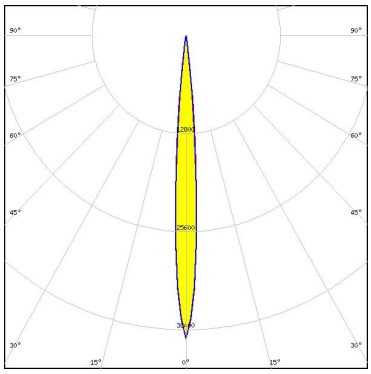



Light distribution files

LUMINUS

| | |
|---|---|
| LED | SFT-70X-WES-Gen2 |
| FWHM / FWTM | 8.0° / 14.0° |
| Efficiency | 92 % |
| Peak intensity | 39.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files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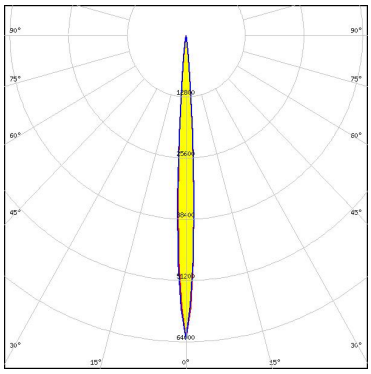
## OPTICAL RESULTS (SIMULATED):

LUMINUS

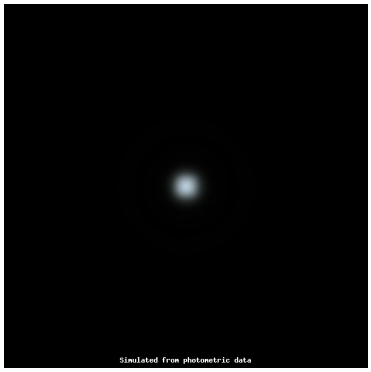
| | |
|---|---|
| LED | SST-20 Gen2 |
| FWHM / FWTM | 6.0° / 12.0° |
| Efficiency | 90 % |
| Peak intensity | 63.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

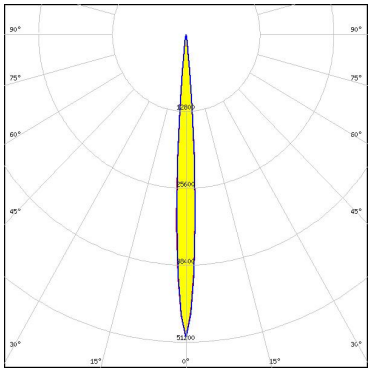


Light distribution files

LUMINUS

| | |
|---|---|
| LED | SST-25-W |
| FWHM / FWTM | 8.0° / 12.0° |
| Efficiency | 91 % |
| Peak intensity | 50.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

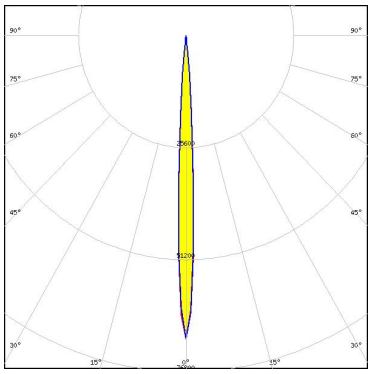


Light distribution files

NICHIA

| | |
|---|---|
| LED | NCSxE17A |
| FWHM / FWTM | 6.0° / 10.0° |
| Efficiency | 87 % |
| Peak intensity | 69.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files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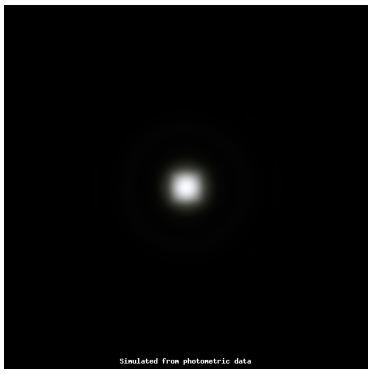
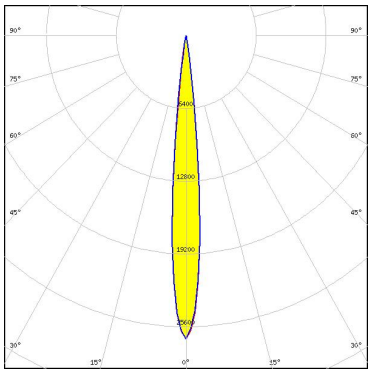
## OPTICAL RESULTS (SIMULATED):

NICHIA

| | |
|---|---|
| LED | NV4WB35AM |
| FWHM / FWTM | 10.0° / 16.0° |
| Efficiency | 92 % |
| Peak intensity | 26.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

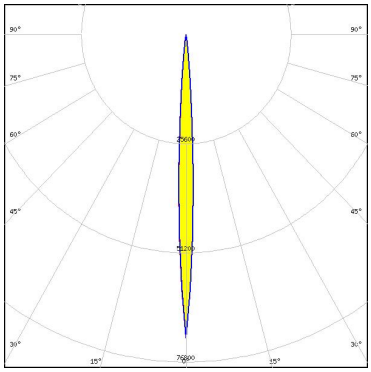


Light distribution files

NICHIA

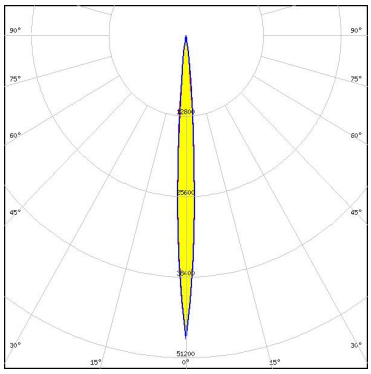
| | |
|---|---|
| LED | NVSW219C-V2 |
| FWHM / FWTM | 6.0° / 12.0° |
| Efficiency | 91 % |
| Peak intensity | 71.2 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

NICHIA

| | |
|---|---|
| LED | NVSxE21A |
| FWHM / FWTM | 6.0° / 14.0° |
| Efficiency | 88 % |
| Peak intensity | 48.2 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files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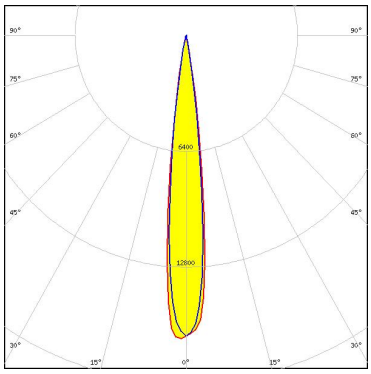
## OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

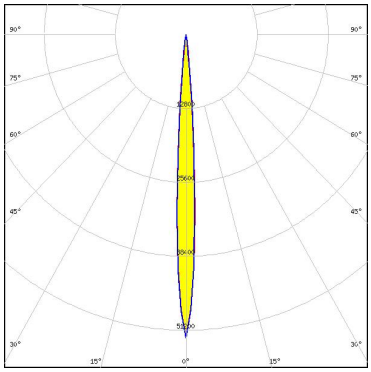
| | |
|---|---|
| LED | Duris S8 |
| FWHM / FWTM | 13.0° / 21.0° |
| Efficiency | 92 % |
| Peak intensity | 16.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

OSRAM
Opto Semiconductors

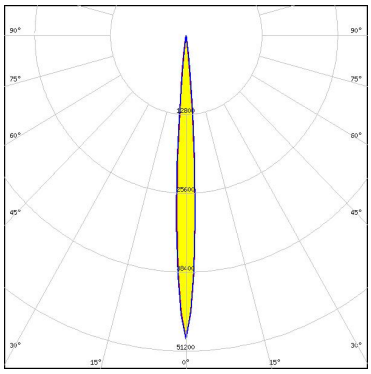
| | |
|---|---|
| LED | OSCONIQ C 2424 Gen2 |
| FWHM / FWTM | 6.0° / 12.0° |
| Efficiency | 91 % |
| Peak intensity | 52.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | OSCONIQ C 3030 |
| FWHM / FWTM | 8.0° / 13.0° |
| Efficiency | 92 % |
| Peak intensity | 49.2 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files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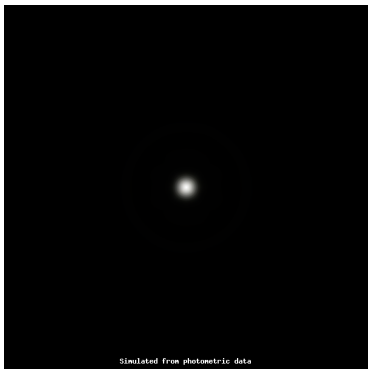
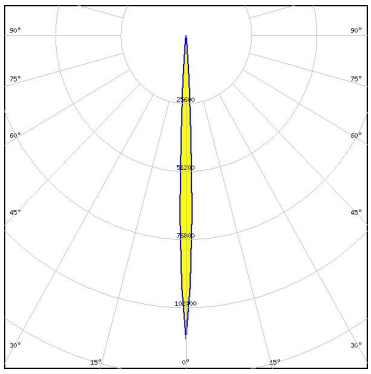
## OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | OSLON Black Flat S (KW HHL532.TK) |
| FWHM / FWTM | 4.0° / 8.0° |
| Efficiency | 90 % |
| Peak intensity | 114.2 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

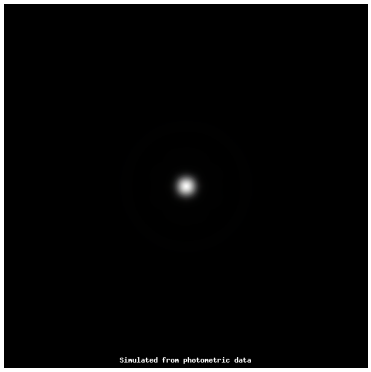


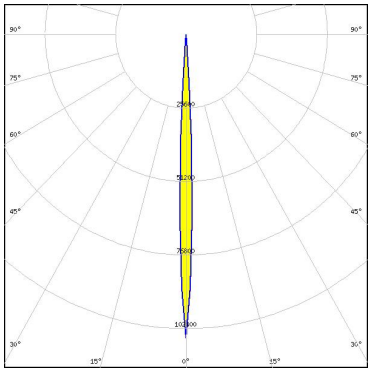



Light distribution files

OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | OSLON Black Flat X (KW HHL631.TK) |
| FWHM / FWTM | 4.0° / 10.0° |
| Efficiency | 91 % |
| Peak intensity | 105.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

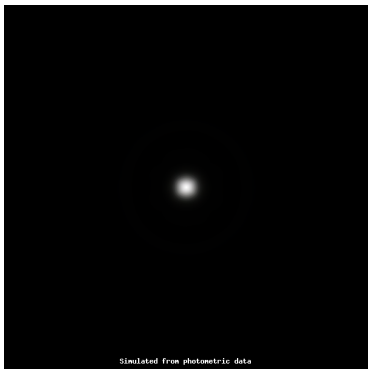


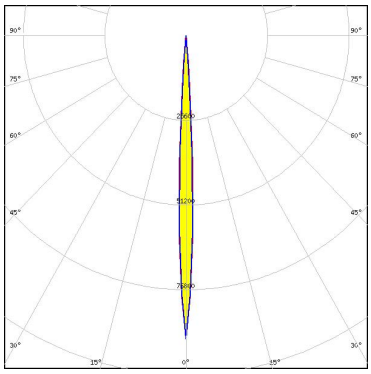



Light distribution files

OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | OSLON Boost HX (KW CULPM1.TG) |
| FWHM / FWTM | 6.0° / 10.0° |
| Efficiency | 91 % |
| Peak intensity | 91.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files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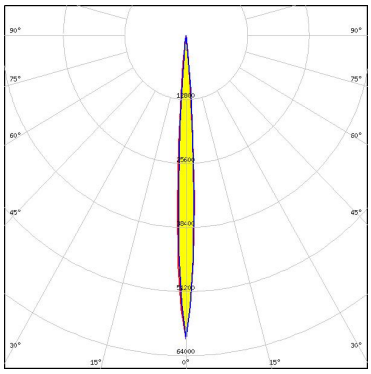
## OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

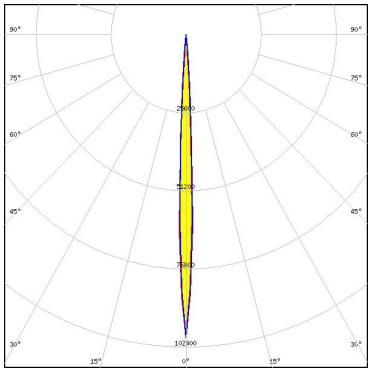
| | |
|---|---|
| LED | OSLON Square CSSRM2/CSSRM3 |
| FWHM / FWTM | 6.4° / 13.0° |
| Efficiency | 92 % |
| Peak intensity | 60.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

OSRAM
Opto Semiconductors

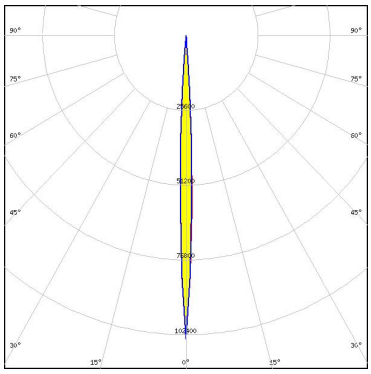
| | |
|---|---|
| LED | OSLON SSL 80 |
| FWHM / FWTM | 5.0° / 10.0° |
| Efficiency | 89 % |
| Peak intensity | 99.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | OSTAR Projection Compact (KW.CSLNM1.TG) |
| FWHM / FWTM | 4.0° / 10.0° |
| Efficiency | 91 % |
| Peak intensity | 103.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



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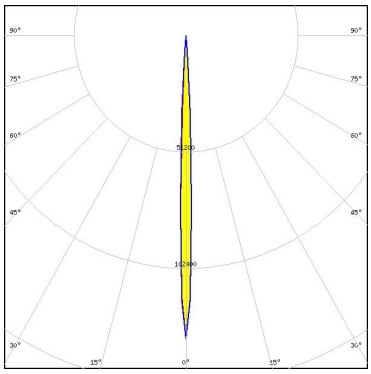
## OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

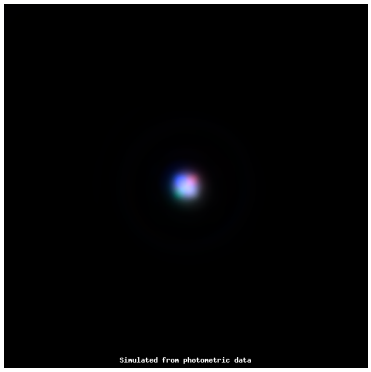
| | |
|---|---|
| LED | OSTAR Projection Compact (KW.CSLNM1.TG) |
| FWHM / FWTM | 4.0° / 8.0° |
| Efficiency | 90 % |
| Peak intensity | 133.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

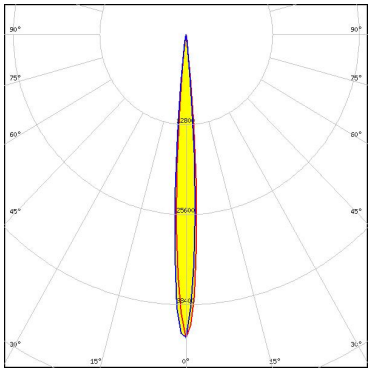


Light distribution files

OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | OSTAR Stage (S2WN) |
| FWHM / FWTM | 8.0° / 14.0° |
| Efficiency | 92 % |
| Peak intensity | 43.1 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | RGBW |
| Required components: | |

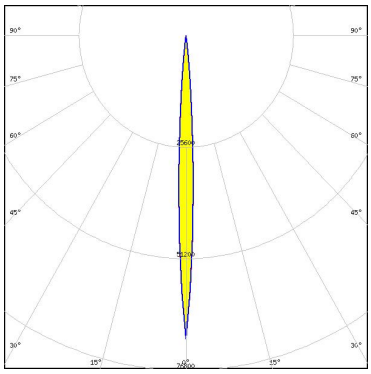


Light distribution files

SAMSUNG

| | |
|---|---|
| LED | LM101B |
| FWHM / FWTM | 6.0° / 12.0° |
| Efficiency | 90 % |
| Peak intensity | 69.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



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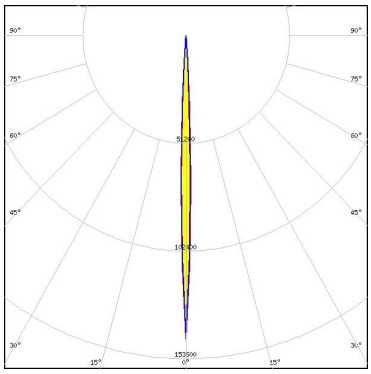
## OPTICAL RESULTS (SIMULATED):

| | |
|---|---|
| LED | LaserLight SMD 1000 |
| FWHM / FWTM | 4.0° / 8.0° |
| Efficiency | 88 % |
| Peak intensity | 144.2 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



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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.

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