

OLGA-S

~11° spot beam. Assembly with holder and installation tape.



SPECIFICATION:

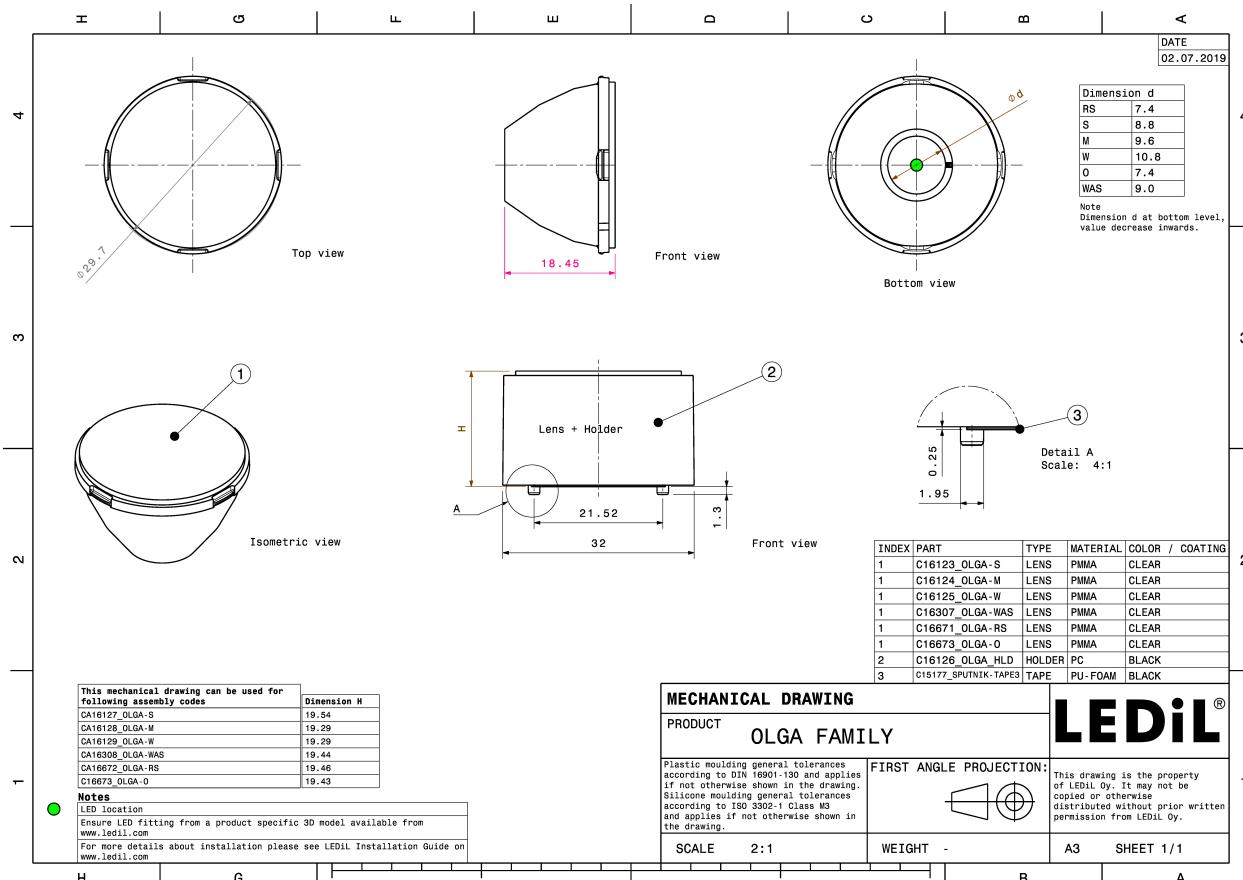
| | |
|----------------|---|
| Dimensions | Ø 32.0 |
| Height | 19.1 mm |
| Fastening | tape, pin |
| ROHS compliant | yes  |

MATERIALS:

| Component | Type | Material | Colour | Finish | Length (mm) |
|---------------|-------------|------------|--------|--------|-------------|
| OLGA-HLD2 | Holder | PC | black | | |
| OLGA-S | Single lens | PMMA | clear | | |
| SPUTNIK-TAPE3 | Tape | Acryl tape | black | | |

ORDERING INFORMATION:

| Component | Qty in box | MOQ | MPQ | Box weight (kg) |
|--|------------|-----|-----|-----------------|
| CA16127_OLGA-S » Box size: 476 x 273 x 292 mm | 792 | 132 | 66 | 9.8 |



MECHANICAL DRAWING

PRODUCT OLGA FAMILY

LEDiL®

Plastic moulding general tolerances according to DIN 16901-130 and applies if not otherwise shown in the drawing. Silicon moulding general tolerances according to ISO 3620-1 Class M0 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 2:1

WEIGHT -

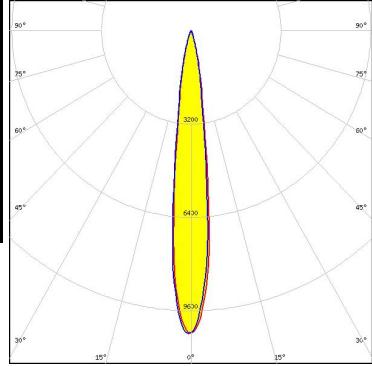
A3 SHEET 1/1

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

OPTICAL RESULTS (MEASURED):



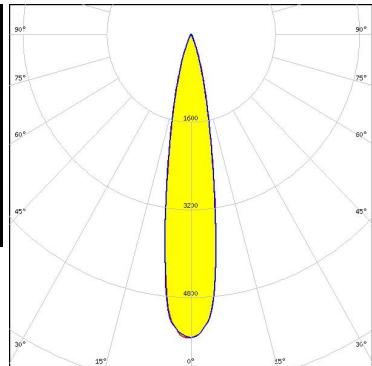
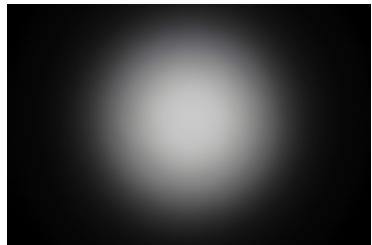
LED XD16
FWHM / FWTM 13.0° / 28.0°
Efficiency 82 %
Peak intensity 10.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



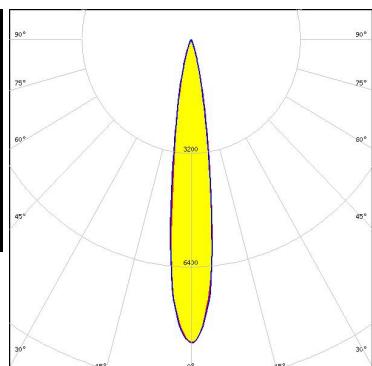
LED XHP35 HD
FWHM / FWTM 19.0° / 37.0°
Efficiency 83 %
Peak intensity 5.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED XHP35 HI
FWHM / FWTM 15.0° / 31.0°
Efficiency 87 %
Peak intensity 8.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

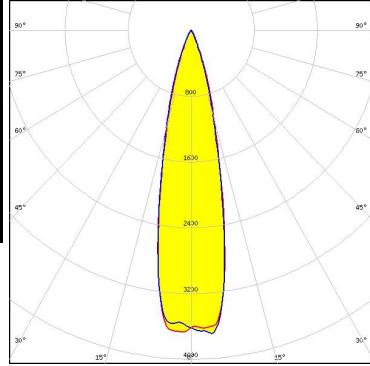
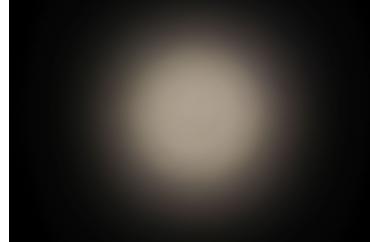


Light distribution files

OPTICAL RESULTS (MEASURED):



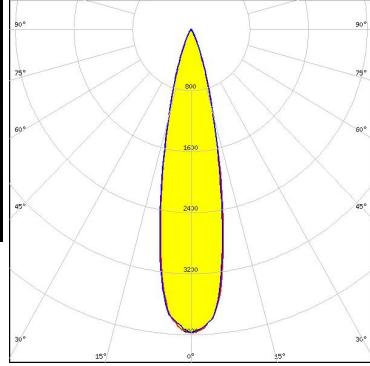
LED XHP50
FWHM / FWTM 24.0° / 44.0°
Efficiency 83 %
Peak intensity 3.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



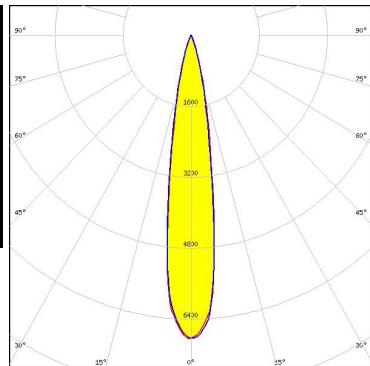
LED XHP50.2
FWHM / FWTM 23.0° / 43.0°
Efficiency 82 %
Peak intensity 4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED XM-L
FWHM / FWTM 17.0° / 34.0°
Efficiency 86 %
Peak intensity 6.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

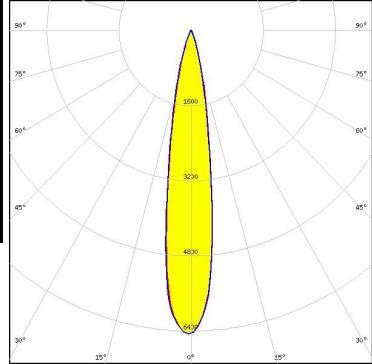


Light distribution files

OPTICAL RESULTS (MEASURED):



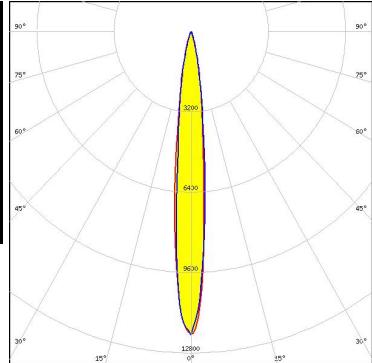
LED XM-L3
FWHM / FWTM 17.0° / 35.0°
Efficiency 85 %
Peak intensity 6.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



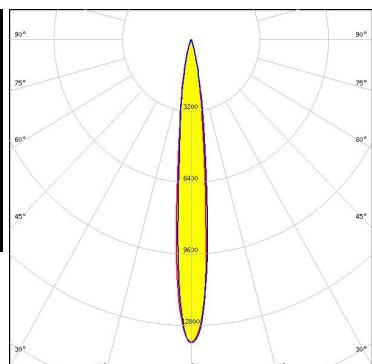
LED XP-E
FWHM / FWTM 11.0° / 27.0°
Efficiency 87 %
Peak intensity 12.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED XP-E2
FWHM / FWTM 11.0° / 26.0°
Efficiency 89 %
Peak intensity 13.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

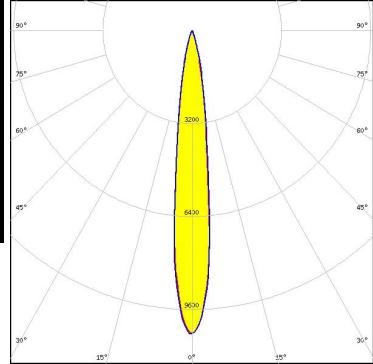


Light distribution files

OPTICAL RESULTS (MEASURED):



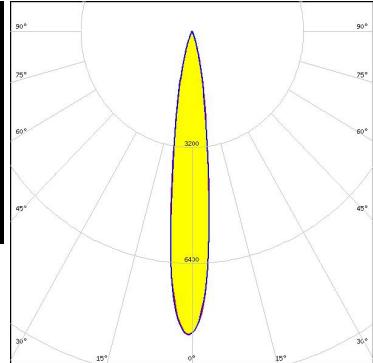
LED XP-G2
FWHM / FWTM 13.0° / 29.0°
Efficiency 87 %
Peak intensity 10 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



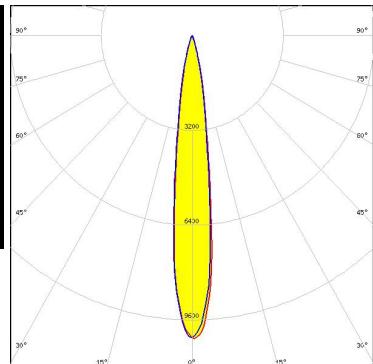
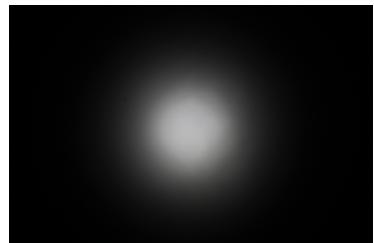
LED XP-G3
FWHM / FWTM 14.0° / 31.0°
Efficiency 86 %
Peak intensity 8.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED XP-L HI
FWHM / FWTM 14.0° / 29.0°
Efficiency 88 %
Peak intensity 10.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

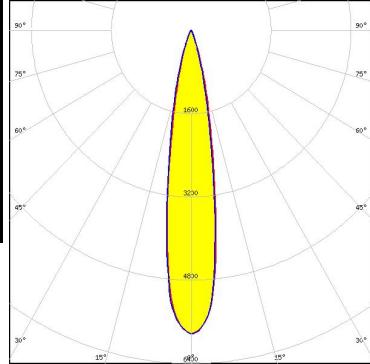


Light distribution files

OPTICAL RESULTS (MEASURED):



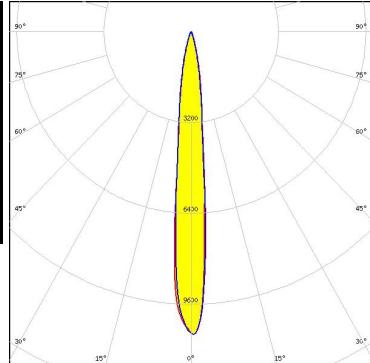
LED XP-L2
FWHM / FWTM 18.0° / 36.0°
Efficiency 82 %
Peak intensity 5.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



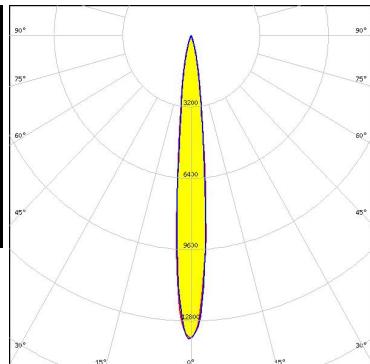
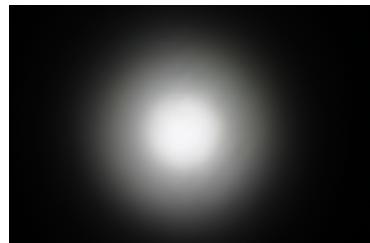
LED XQ-E HD
FWHM / FWTM 11.0° / 28.0°
Efficiency 81 %
Peak intensity 11 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED XQ-E HI
FWHM / FWTM 11.0° / 26.0°
Efficiency 86 %
Peak intensity 13.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

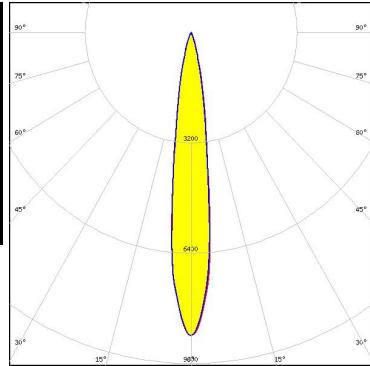


Light distribution files

OPTICAL RESULTS (MEASURED):



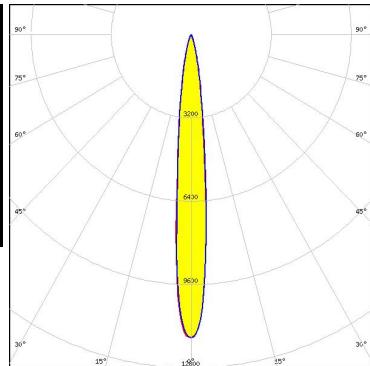
LED XT-E
FWHM / FWTM 14.0° / 30.0°
Efficiency 84 %
Peak intensity 8.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



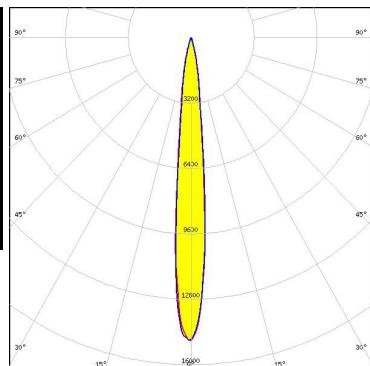
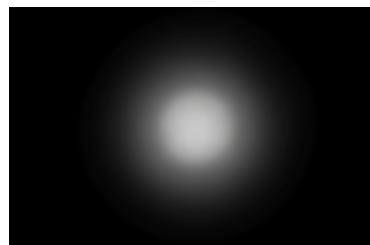
LED LUXEON C
FWHM / FWTM 11.0° / 27.0°
Efficiency 84 %
Peak intensity 11.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED LUXEON CZ
FWHM / FWTM 11.0° / 25.0°
Efficiency 89 %
Peak intensity 14.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

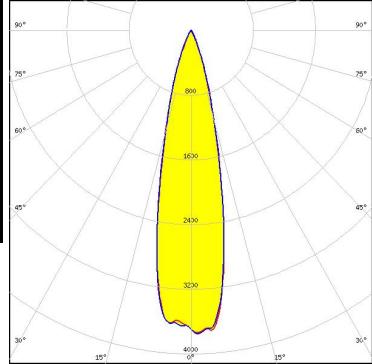
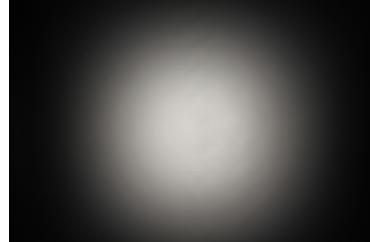


Light distribution files

OPTICAL RESULTS (MEASURED):



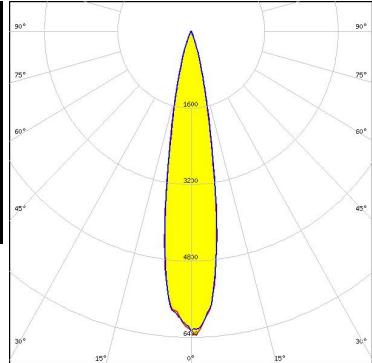
LED LUXEON M/MX
FWHM / FWTM 24.0° / 44.0°
Efficiency 84 %
Peak intensity 3.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



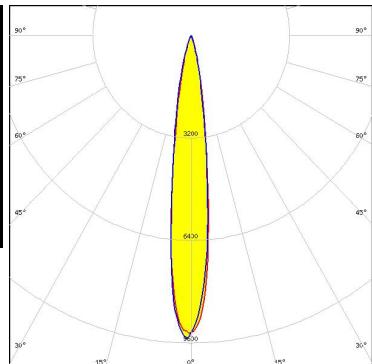
LED LUXEON MZ
FWHM / FWTM 19.0° / 35.0°
Efficiency 86 %
Peak intensity 6.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED LUXEON Rebel ES
FWHM / FWTM 14.0° / 30.0°
Efficiency 86 %
Peak intensity 9.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

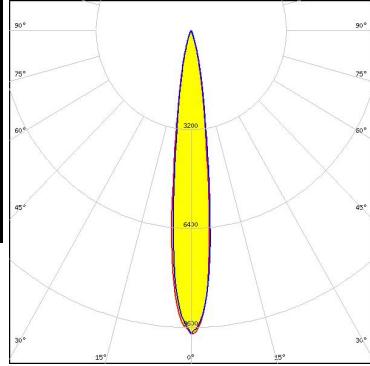


Light distribution files

OPTICAL RESULTS (MEASURED):



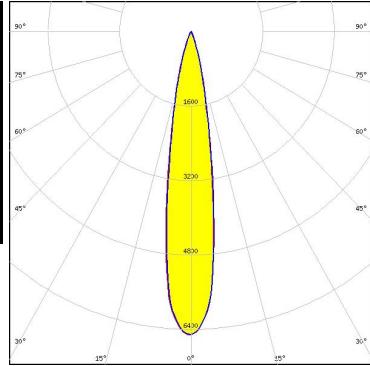
LED LUXEON TX
 FWHM / FWTM 14.0° / 29.0°
 Efficiency 86 %
 Peak intensity 9.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



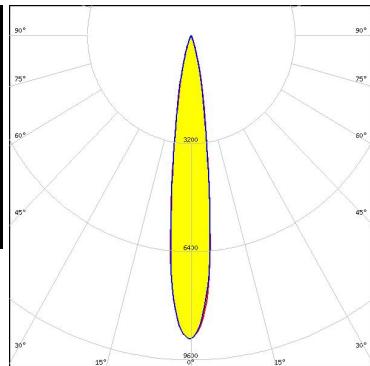
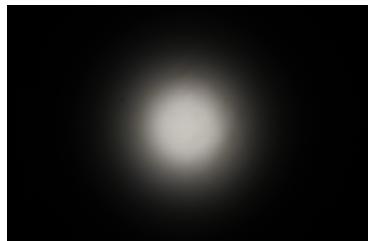
LED LUXEON V
 FWHM / FWTM 18.0° / 35.0°
 Efficiency 84 %
 Peak intensity 6.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED LUXEON V2
 FWHM / FWTM 15.0° / 31.0°
 Efficiency 86 %
 Peak intensity 9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

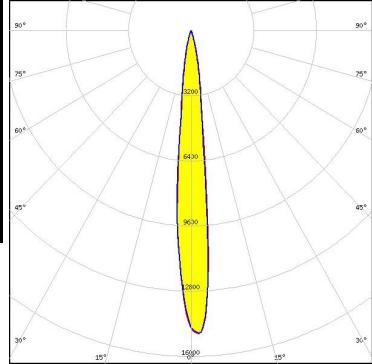


Light distribution files

OPTICAL RESULTS (MEASURED):



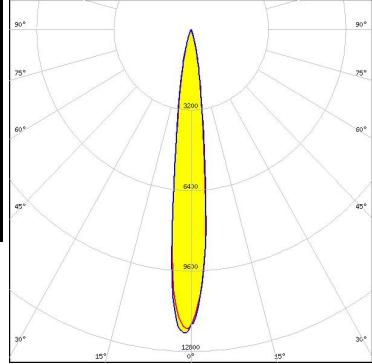
LED LUXEON Z
FWHM / FWTM 11.0° / 25.0°
Efficiency 88 %
Peak intensity 15.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



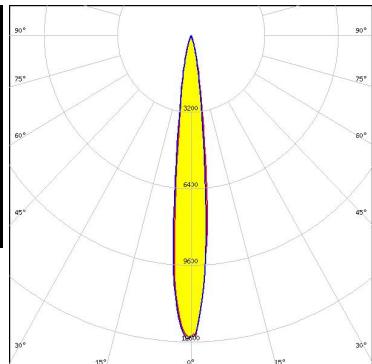
LED LUXEON Z ES
FWHM / FWTM 12.0° / 27.0°
Efficiency 89 %
Peak intensity 12.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED NCSxE17A
FWHM / FWTM 12.0° / 26.0°
Efficiency 87 %
Peak intensity 12.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

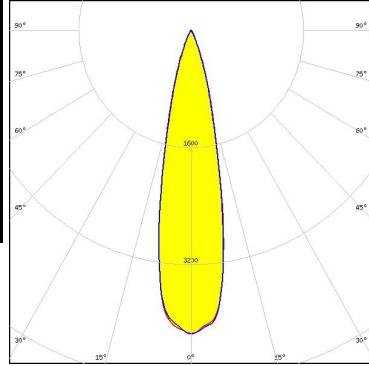
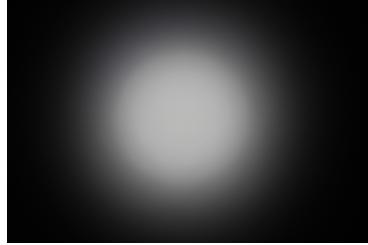


Light distribution files

OPTICAL RESULTS (MEASURED):



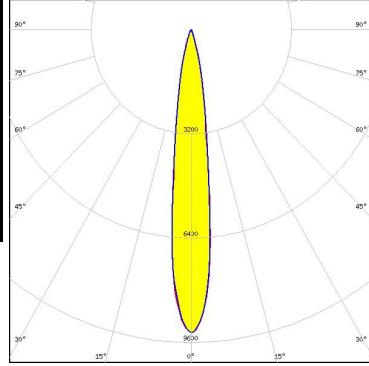
LED NV4x144A
FWHM / FWTM 23.0° / 43.0°
Efficiency 84 %
Peak intensity 4.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



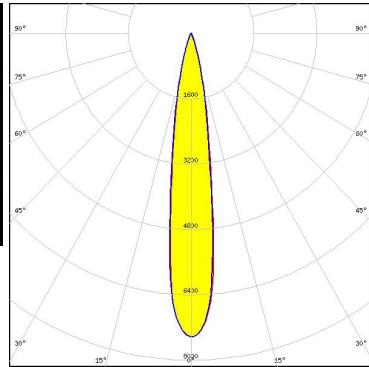
LED NVSW219D
FWHM / FWTM 14.0° / 30.0°
Efficiency 85 %
Peak intensity 9.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED NVSW319B
FWHM / FWTM 16.0° / 33.0°
Efficiency 86 %
Peak intensity 7.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

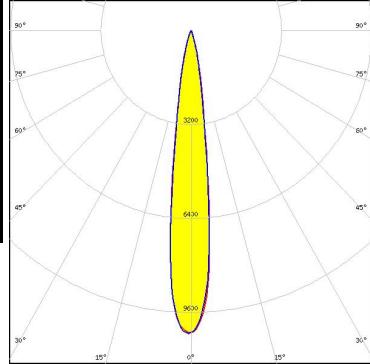


Light distribution files

OPTICAL RESULTS (MEASURED):



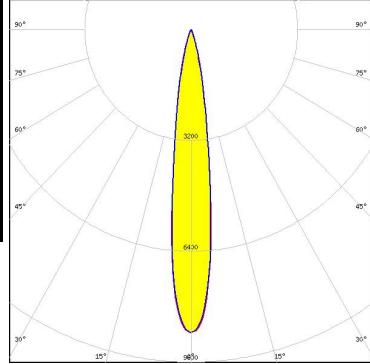
LED NVSxE21A
FWHM / FWTM 14.0° / 28.0°
Efficiency 87 %
Peak intensity 10.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED NVSxx19B/NVSxx19C
FWHM / FWTM 15.0° / 31.0°
Efficiency 85 %
Peak intensity 8.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

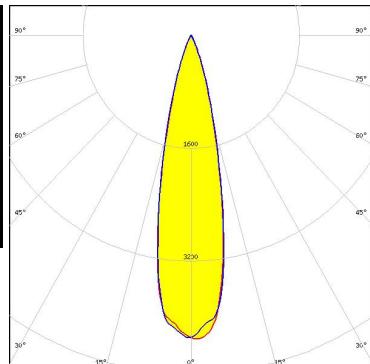


Light distribution files



Opto Semiconductors

LED Duris S8
FWHM / FWTM 24.0° / 43.0°
Efficiency 86 %
Peak intensity 4.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



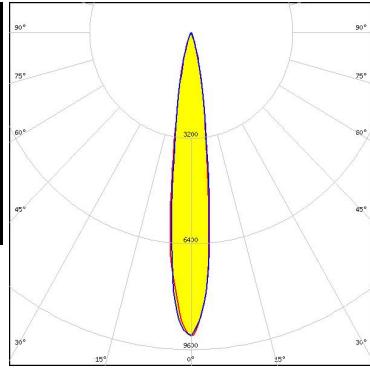
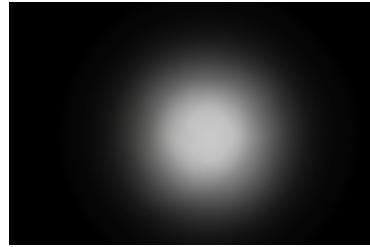
Light distribution files

OPTICAL RESULTS (MEASURED):

OSRAM

Opto Semiconductors

LED OSCONIQ P 3737 (2W) PUSRA1
FWHM / FWTM 14.0° / 30.0°
Efficiency 87 %
Peak intensity 9.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

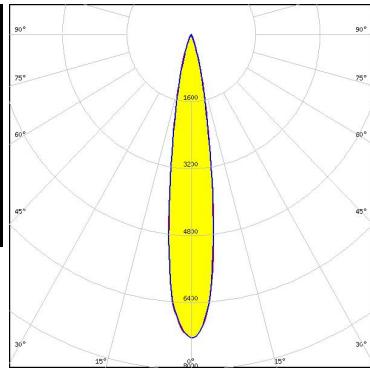
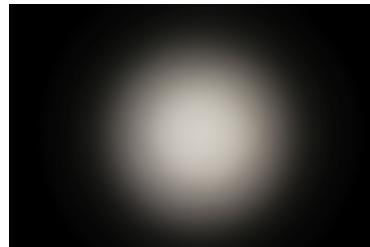


Light distribution files

OSRAM

Opto Semiconductors

LED OSCONIQ P 3737 (3W) PUSTA1
FWHM / FWTM 17.0° / 33.0°
Efficiency 86 %
Peak intensity 7.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

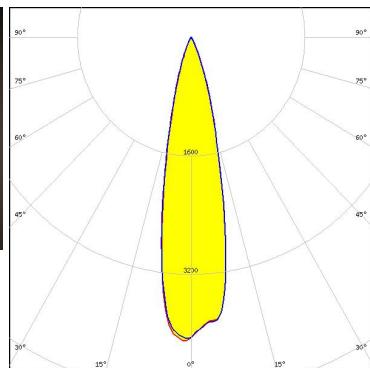


Light distribution files

OSRAM

Opto Semiconductors

LED OSCONIQ P 7070
FWHM / FWTM 23.0° / 42.0°
Efficiency 84 %
Peak intensity 4.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OPTICAL RESULTS (MEASURED):

OSRAM

Opto Semiconductors

LED OSLON Black Flat (LUW HWQP)

FWHM / FWTM 11.0° / 24.0°

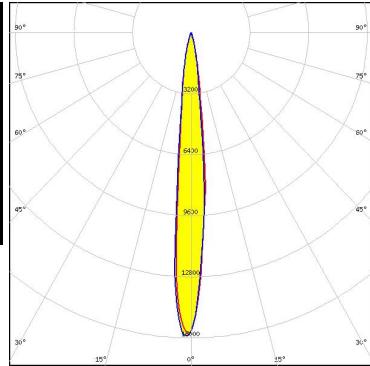
Efficiency 88 %

Peak intensity 16 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 14.0° / 30.0°

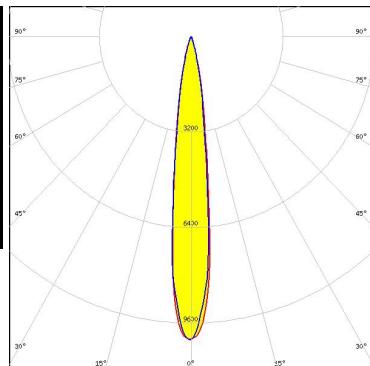
Efficiency 87 %

Peak intensity 10.2 cd/lm

LEDs/each optic 1

Light colour/type White

Required components:



Light distribution files

OSRAM

Opto Semiconductors

LED OSLON Square EC

FWHM / FWTM 13.0° / 29.0°

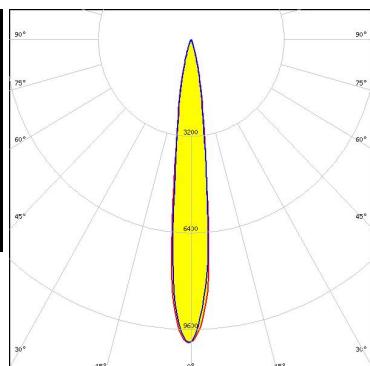
Efficiency 85 %

Peak intensity 10 cd/lm

LEDs/each optic 1

Light colour/type White

Required components:



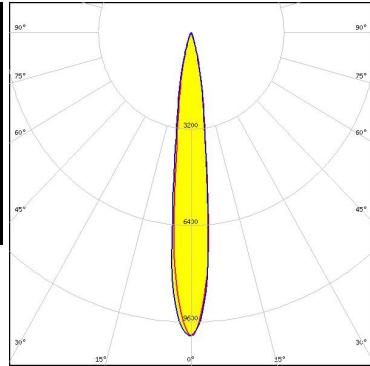
Light distribution files

OPTICAL RESULTS (MEASURED):

OSRAM

Opto Semiconductors

LED OSLON Square PC
FWHM / FWTM 13.0° / 30.0°
Efficiency 85 %
Peak intensity 10.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

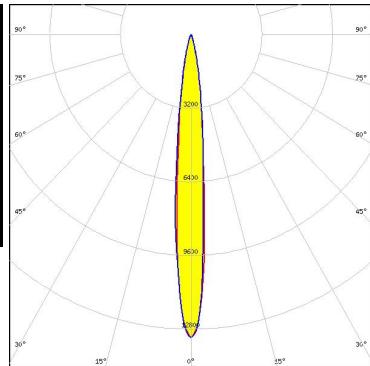


Light distribution files

OSRAM

Opto Semiconductors

LED OSLON SSL 150
FWHM / FWTM 11.0° / 26.0°
Efficiency 87 %
Peak intensity 13 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

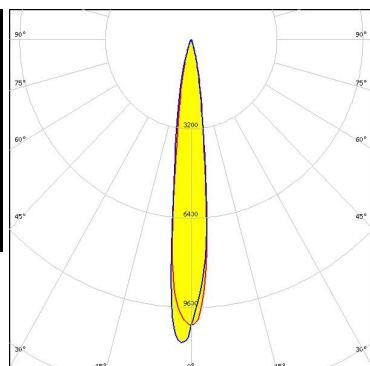


Light distribution files

OSRAM

Opto Semiconductors

LED OSLON SSL 80
FWHM / FWTM 13.0° / 28.0°
Efficiency 86 %
Peak intensity 11.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



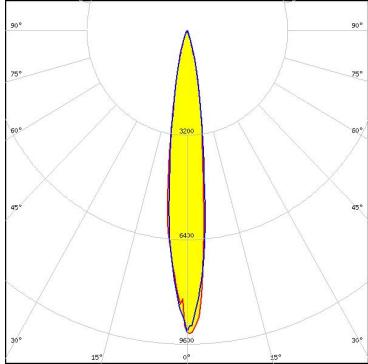
Light distribution files

OPTICAL RESULTS (MEASURED):

OSRAM

Opto Semiconductors

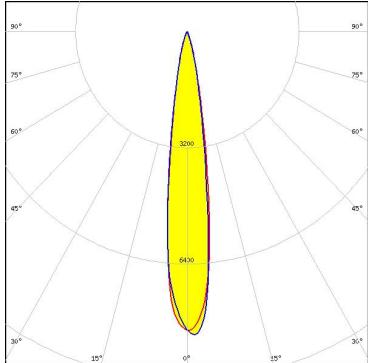
LED OSTAR Stage (S2WN)
FWHM / FWTM 14.0° / 30.0°
Efficiency 86 %
Peak intensity 9.3 cd/lm
LEDs/each optic 1
Light colour/type RGBW
Required components:



Light distribution files

SAMSUNG

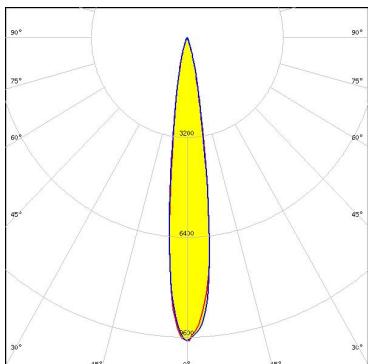
LED LH181A
FWHM / FWTM 15.0° / 30.0°
Efficiency 81 %
Peak intensity 8.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

SAMSUNG

LED LH181B
FWHM / FWTM 15.0° / 29.0°
Efficiency 87 %
Peak intensity 9.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

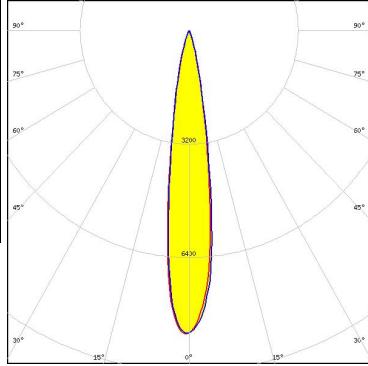


Light distribution files

OPTICAL RESULTS (MEASURED):

SAMSUNG

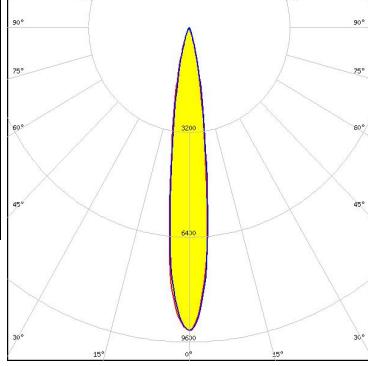
LED LH231B
 FWHM / FWTM 16.0° / 31.0°
 Efficiency 88 %
 Peak intensity 8.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

SAMSUNG

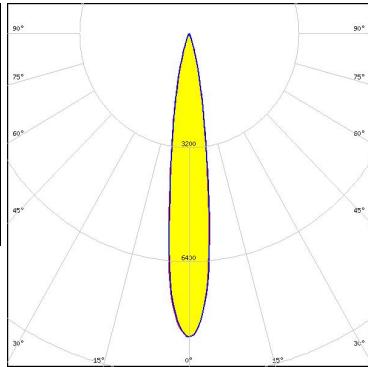
LED LH351B
 FWHM / FWTM 14.0° / 30.0°
 Efficiency 87 %
 Peak intensity 9.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

SAMSUNG

LED LH351C
 FWHM / FWTM 15.0° / 31.0°
 Efficiency 86 %
 Peak intensity 8.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

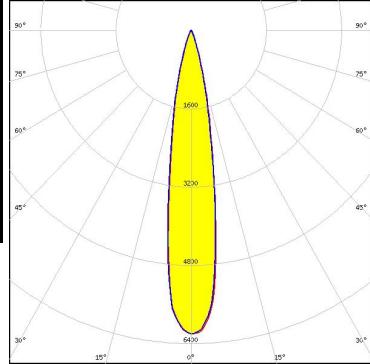


Light distribution files

OPTICAL RESULTS (MEASURED):

SAMSUNG

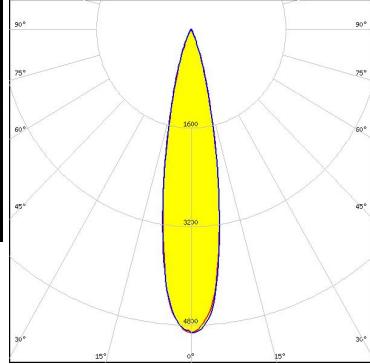
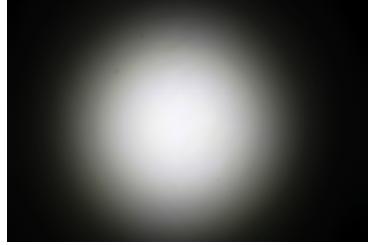
LED LH351D
FWHM / FWTM 18.0° / 36.0°
Efficiency 85 %
Peak intensity 6.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

SAMSUNG

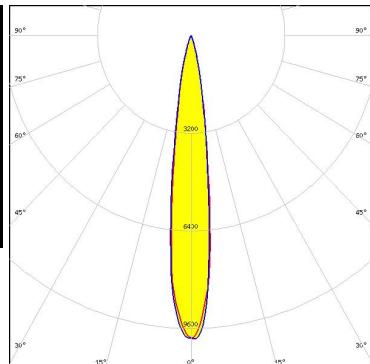
LED LH508A
FWHM / FWTM 21.0° / 40.0°
Efficiency 86 %
Peak intensity 4.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

SAMSUNG

LED LM302A
FWHM / FWTM 14.0° / 30.0°
Efficiency 89 %
Peak intensity 9.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

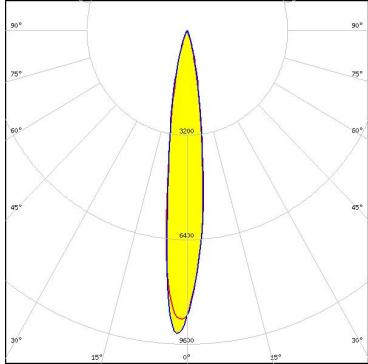


Light distribution files

OPTICAL RESULTS (MEASURED):

SAMSUNG

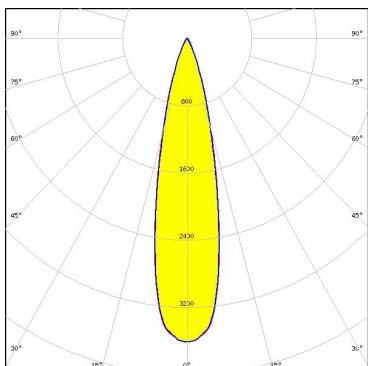
LED LM561B
 FWHM / FWTM 14.0° / 31.0°
 Efficiency 88 %
 Peak intensity 9.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

SEoul SEMICONDUCTOR

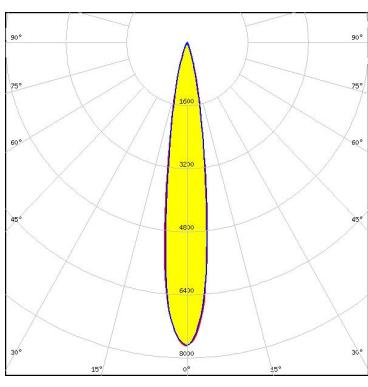
LED WICOP 5050
 FWHM / FWTM 24.0° / 45.0°
 Efficiency 81 %
 Peak intensity 3.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

SEoul SEMICONDUCTOR

LED Z5M3
 FWHM / FWTM 16.0° / 32.0°
 Efficiency 84 %
 Peak intensity 7.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

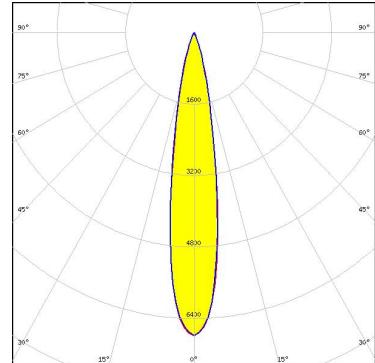


Light distribution files

OPTICAL RESULTS (SIMULATED):



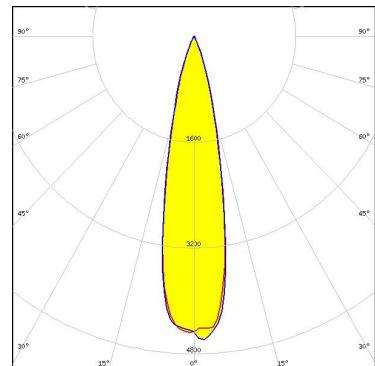
LED XHP35.2 HI
 FWHM / FWTM 18.0° / 36.0°
 Efficiency 88 %
 Peak intensity 6.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



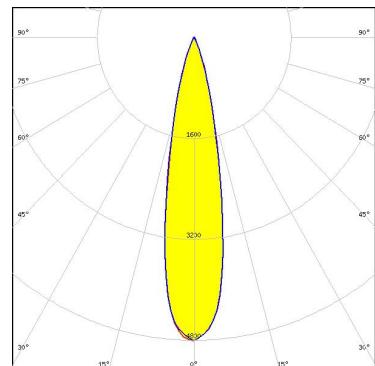
LED XHP50
 FWHM / FWTM 23.0° / 42.0°
 Efficiency 86 %
 Peak intensity 4.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED XHP50.3 HD
 FWHM / FWTM 22.0° / 40.0°
 Efficiency 84 %
 Peak intensity 4.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

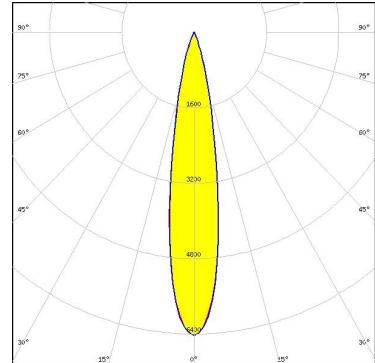


Light distribution files

OPTICAL RESULTS (SIMULATED):



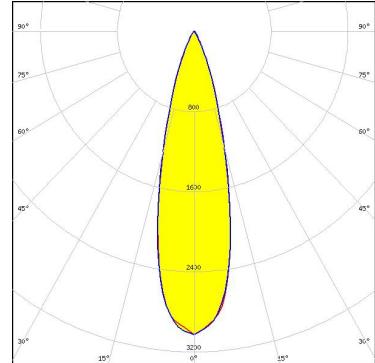
LED XHP50.3 HI
 FWHM / FWTM 18.0° / 36.0°
 Efficiency 95 %
 Peak intensity 6.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



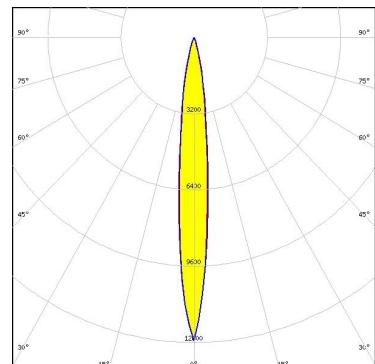
LED XHP70.3 HD
 FWHM / FWTM 26.0 + 28.0° / 50.0°
 Efficiency 82 %
 Peak intensity 3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED XP-E2
 FWHM / FWTM 11.0° / 28.0°
 Efficiency 91 %
 Peak intensity 12.7 cd/lm
 LEDs/each optic 1
 Light colour/type Amber
 Required components:

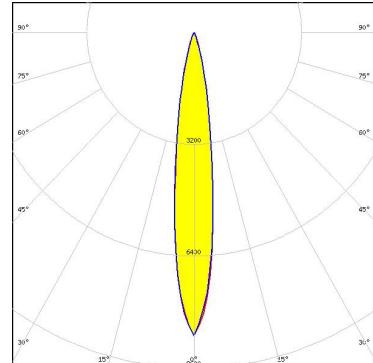


Light distribution files

OPTICAL RESULTS (SIMULATED):



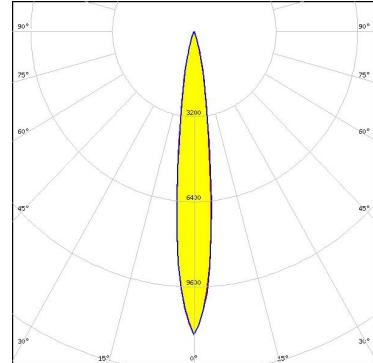
LED XP-G2 HE
 FWHM / FWTM 15.0° / 32.0°
 Efficiency 88 %
 Peak intensity 8.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



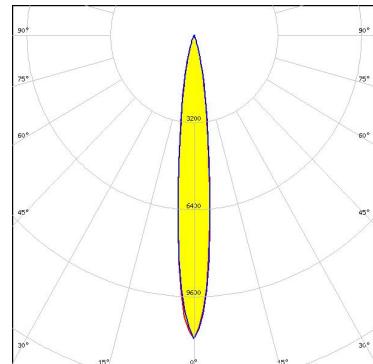
LED XP-G4
 FWHM / FWTM 14.0° / 29.0°
 Efficiency 90 %
 Peak intensity 11.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED XP-G4 HI
 FWHM / FWTM 12.0° / 30.0°
 Efficiency 90 %
 Peak intensity 11.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

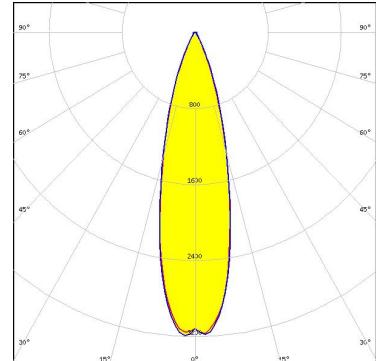


Light distribution files

OPTICAL RESULTS (SIMULATED):



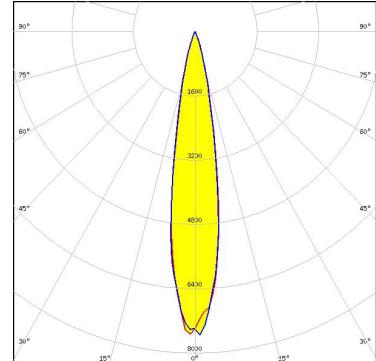
LED LUXEON 7070
 FWHM / FWTM 26.0° / 51.0°
 Efficiency 94 %
 Peak intensity 3.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



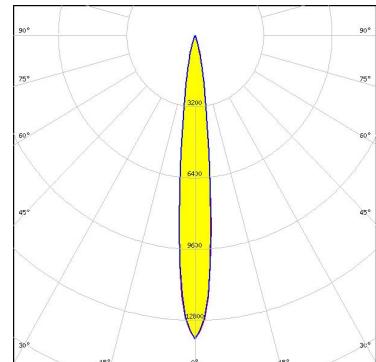
LED LUXEON MZ
 FWHM / FWTM 18.0° / 34.0°
 Efficiency 90 %
 Peak intensity 7.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED SFT-12R-W-A
 FWHM / FWTM 12.0° / 27.0°
 Efficiency 93 %
 Peak intensity 13.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

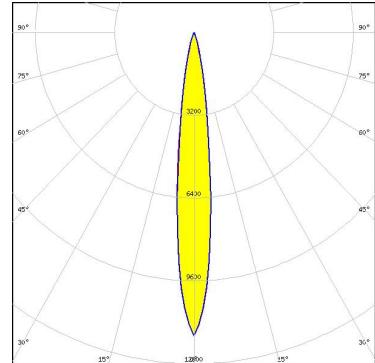


Light distribution files

OPTICAL RESULTS (SIMULATED):



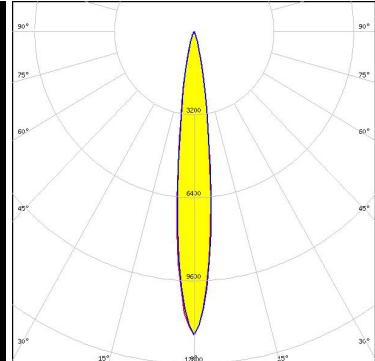
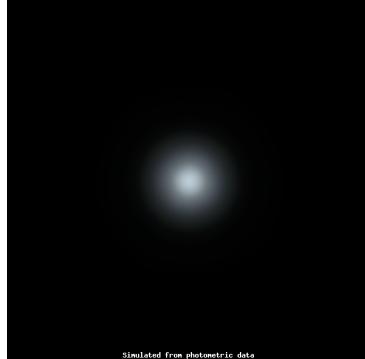
LED SST-20 Gen1
 FWHM / FWTM 14.0° / 28.0°
 Efficiency 91 %
 Peak intensity 11.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



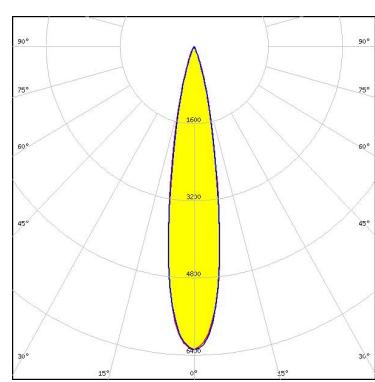
LED SST-20 Gen2
 FWHM / FWTM 13.0° / 28.0°
 Efficiency 90 %
 Peak intensity 11.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED SST-70X-WCS
 FWHM / FWTM 20.0° / 37.0 + 36.0°
 Efficiency 89 %
 Peak intensity 6.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

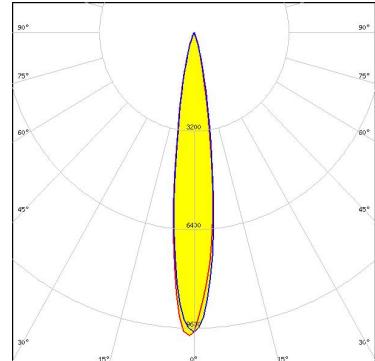


Light distribution files

OPTICAL RESULTS (SIMULATED):



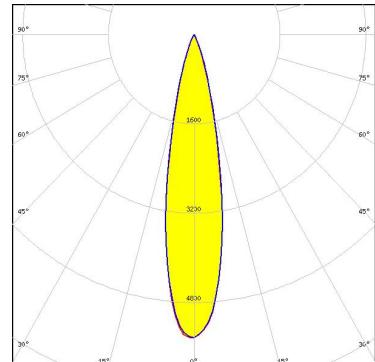
LED NF2x757G
 FWHM / FWTM 16.0° / 31.0°
 Efficiency 91 %
 Peak intensity 9.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



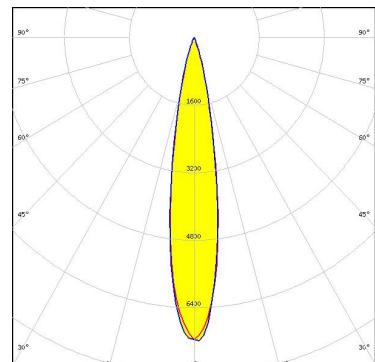
LED NFMW48xA
 FWHM / FWTM 21.0° / 40.0°
 Efficiency 89 %
 Peak intensity 5.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED NV4WB35AM
 FWHM / FWTM 18.0° / 34.0°
 Efficiency 89 %
 Peak intensity 7.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

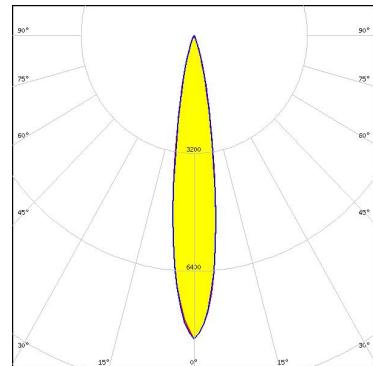


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

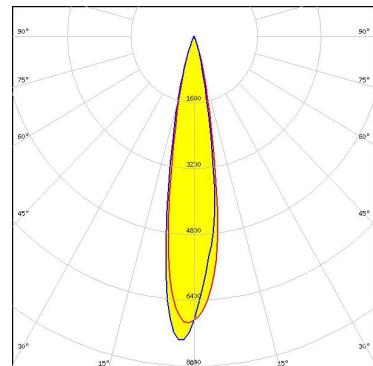
LED OSCONIQ P 3737 (3W) PUSTA1
FWHM / FWTM 16.0° / 33.0°
Efficiency 89 %
Peak intensity 8.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

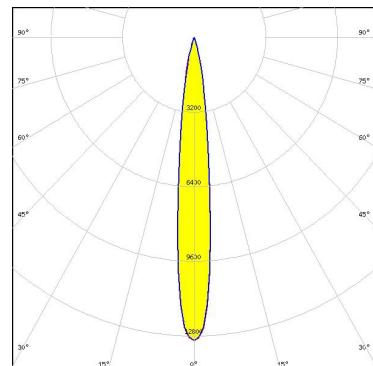
LED OSLON Pure 1414
FWHM / FWTM 19.0 + 18.0° / 35.0 + 33.0°
Efficiency 89 %
Peak intensity 7.4 cd/lm
LEDs/each optic 4
Light colour/type RGBW
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED OSLON Pure 1414
FWHM / FWTM 12.0° / 28.0°
Efficiency 92 %
Peak intensity 13 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

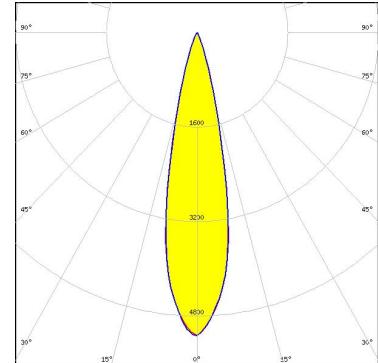


Light distribution files

OPTICAL RESULTS (SIMULATED):

SAMSUNG

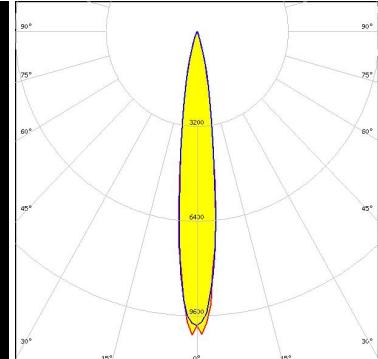
LED LH151B
 FWHM / FWTM 22.0° / 38.0°
 Efficiency 88 %
 Peak intensity 5.1 cd/lm
 LEDs/each optic 4
 Light colour/type White
 Required components:



Light distribution files

SEoul SEMICONDUCTOR

LED Z5M3-E1
 FWHM / FWTM 14.0° / 30.0°
 Efficiency 89 %
 Peak intensity 10.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

GENERAL INFORMATION:

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

MATERIALS:

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.

LEDiL Oy assumes neither warranty, nor guarantee nor any other liability of any kind for the contents and correctness of the provided data. The provided data has been generated with highest diligence but the provided data may in reality not represent the complete possible variation range of all intrinsic parameters. Therefore, in certain cases a deviation from the provided data could occur.

LEDiL Oy reserves the right to undertake technical changes of its products without further notification which could lead to changes in the provided data. LEDiL Oy assumes no liability of any kind for the possible deviation from any provided data or any other damage resulting from the usage of the provided data.

The user agrees to this disclaimer and user agreement with the download or usage of the provided files.

LEDiL Oy
Joensuunkatu 7
FI-24100 SALO
Finland

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

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

Local sales and technical support
[www.ledil.com/
where_to_buy](http://www.ledil.com/where_to_buy)

Shipping locations
Poznan, Poland
Hong Kong, China

Distribution Partners
[www.ledil.com/
where_to_buy](http://www.ledil.com/where_to_buy)