

STRADELLA-16-HB-S

~25° spot beam for industrial applications

SPECIFICATION:

| | |
|----------------|-------------|
| Dimensions | 49.5 x 49.5 |
| Height | 7.5 mm |
| Fastening | pin, screw |
| ROHS compliant | yes ⓘ |

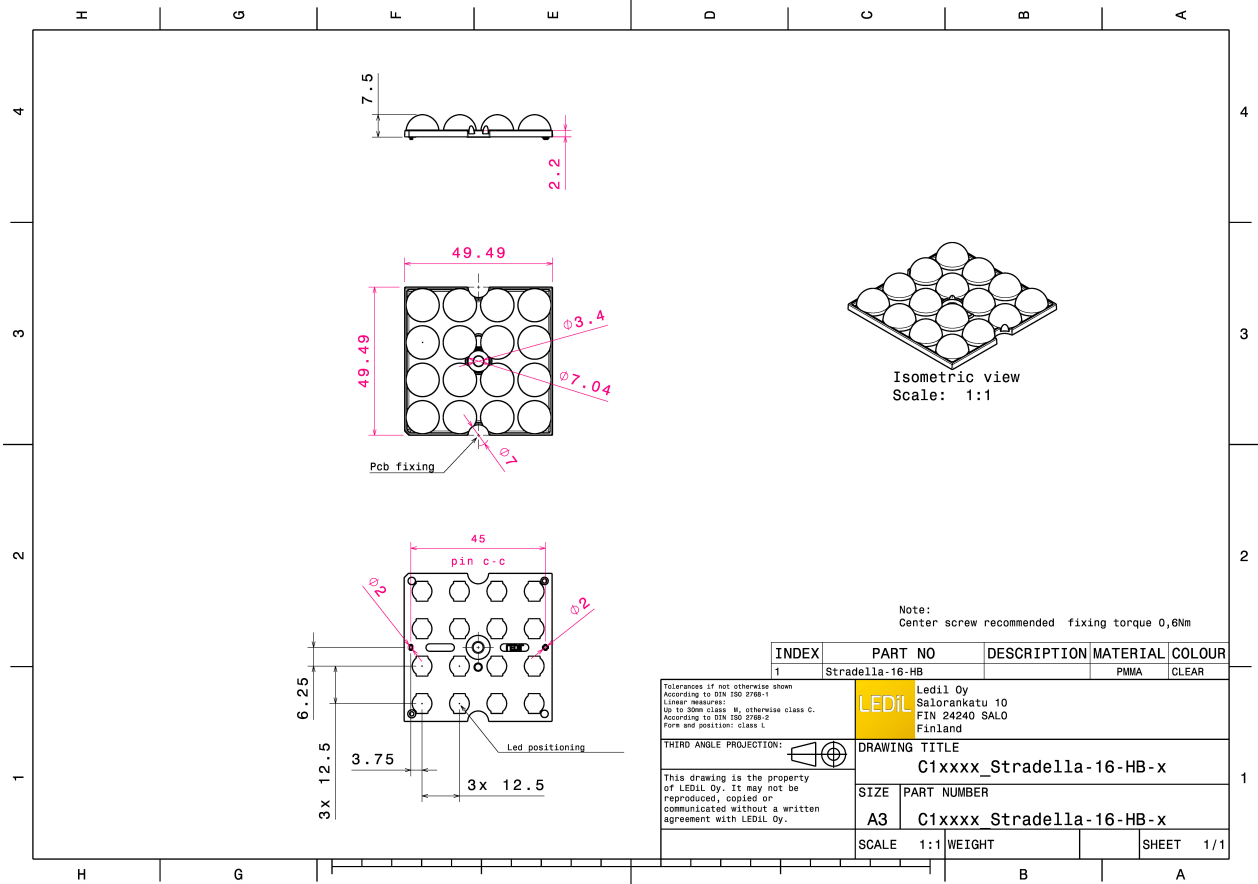
MATERIALS:

| Component | Type | Material | Colour | Finish | Length (mm) |
|-------------------|------------|----------|--------|--------|-------------|
| STRADELLA-16-HB-S | Multi-lens | PMMA | clear | | |



ORDERING INFORMATION:

| Component | Qty in box | MOQ | MPQ | Box weight (kg) |
|--|------------|-----|-----|-----------------|
| C15430_STRADELLA-16-HB-S » Box size: 480 x 280 x 300 mm | 800 | 160 | 160 | 6.1 |

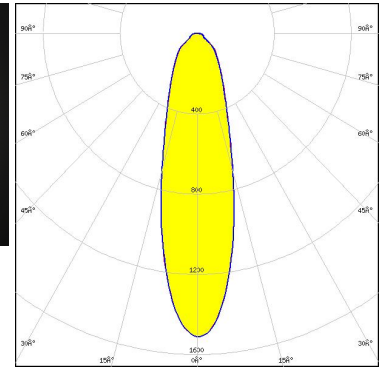


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):



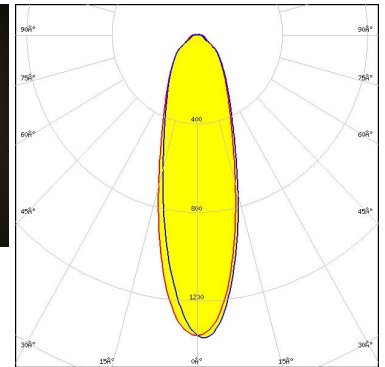
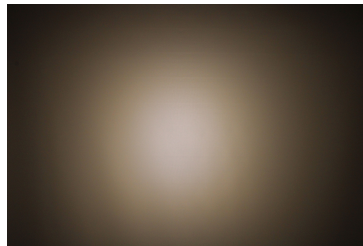
LED J Series 3030
FWHM / FWTM 29.0° / 86.0°
Efficiency 91 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



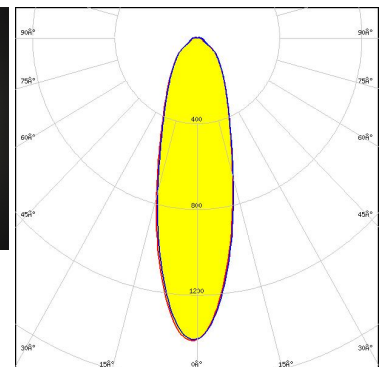
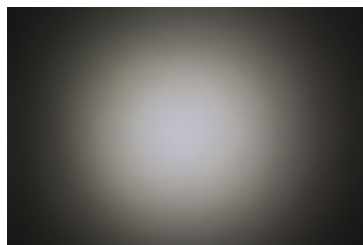
LED EHP-223.5x50-1604-xx-70-LS30-06-NTC
FWHM / FWTM 30.0° / 95.0°
Efficiency 93 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED PrevaLED Brick MP 4x16
FWHM / FWTM 30.0° / 92.0°
Efficiency 92 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

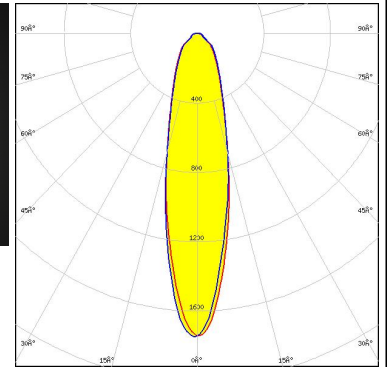


Light distribution files

OPTICAL RESULTS (MEASURED):



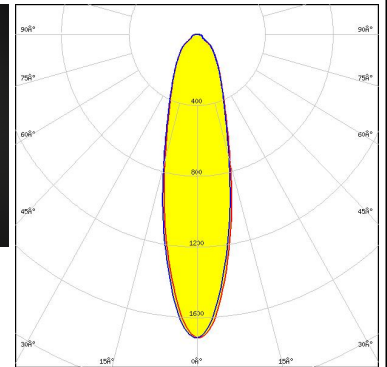
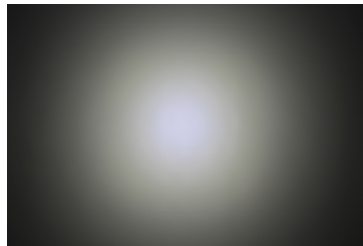
LED NFSx757D
 FWHM / FWTM 25.0° / 78.0°
 Efficiency 90 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



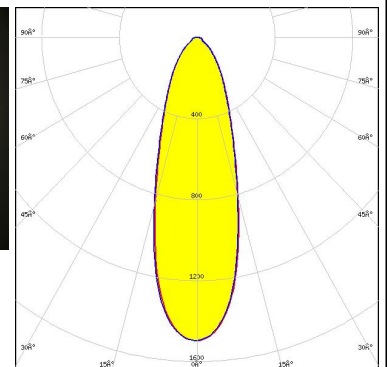
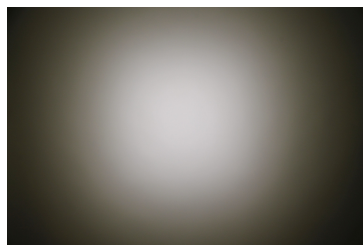
LED NFSx757G
 FWHM / FWTM 27.0° / 80.0°
 Efficiency 93 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED NVSW219D
 FWHM / FWTM 32.0° / 83.0°
 Efficiency 93 %
 Peak intensity 1.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

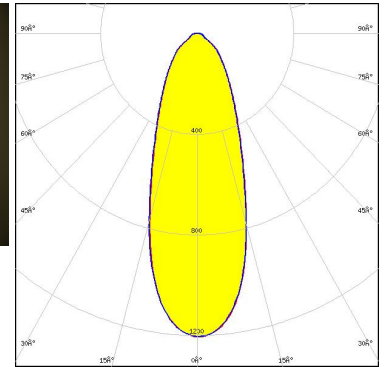
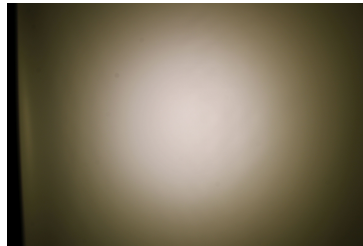


Light distribution files

OPTICAL RESULTS (MEASURED):



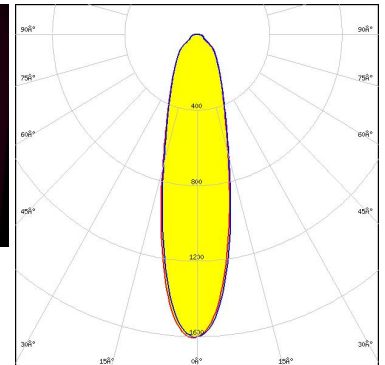
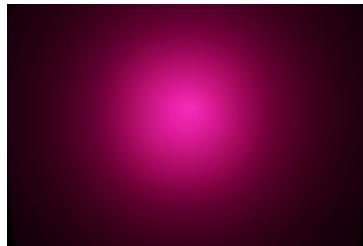
LED NVSW319B
 FWHM / FWTM 37.0° / 97.0°
 Efficiency 93 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



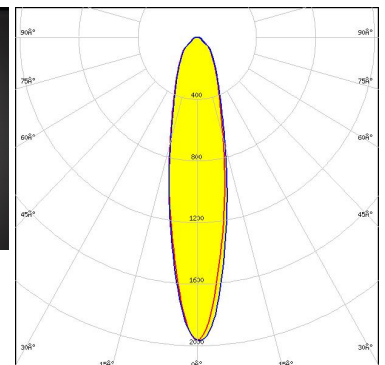
LED Duris S5 (2 chip)
 FWHM / FWTM 27.0° / 83.0°
 Efficiency 92 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour/type Purple
 Required components:



Light distribution files



LED Duris S5 (Single chip)
 FWHM / FWTM 23.0° / 72.0°
 Efficiency 90 %
 Peak intensity 2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

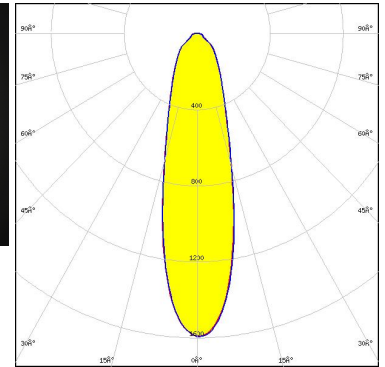
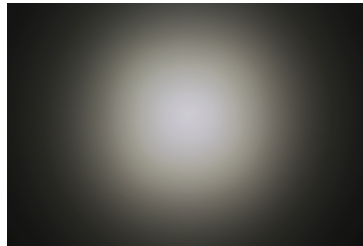


Light distribution files

OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

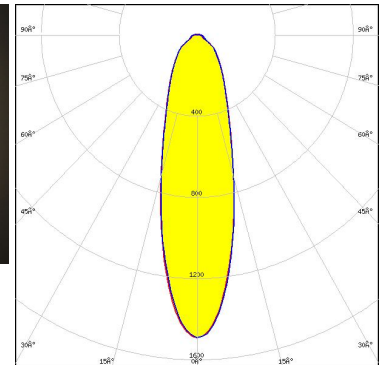
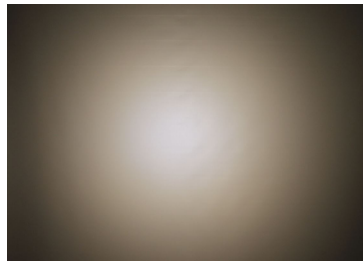
LED OSCONIQ S 3030 (QSLR31)
 FWHM / FWTM 28.0° / 82.0°
 Efficiency 91 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

PHILIPS

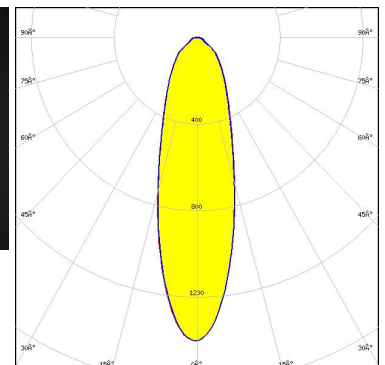
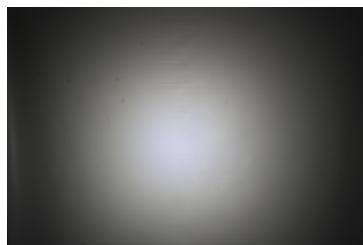
LED Fortimo FastFlex LED 4x16 DHE G4
 FWHM / FWTM 29.0° / 88.0°
 Efficiency 92 %
 Peak intensity 1.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

SAMSUNG

LED HiLOM RM64 (LM301B)
 FWHM / FWTM 30.0° / 92.0°
 Efficiency 93 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

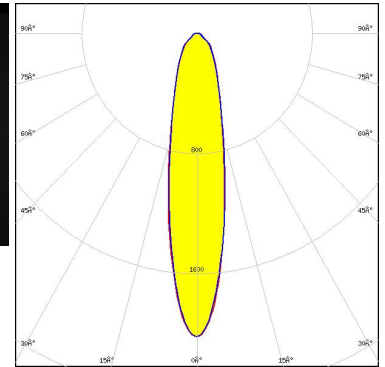


Light distribution files

OPTICAL RESULTS (MEASURED):

SAMSUNG

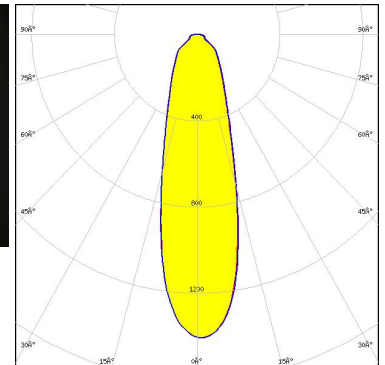
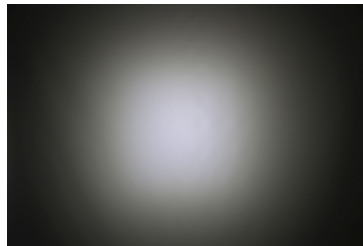
LED LM231 A/B
 FWHM / FWTM 22.0° / 70.0°
 Efficiency 91 %
 Peak intensity 2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

SCIOLUX

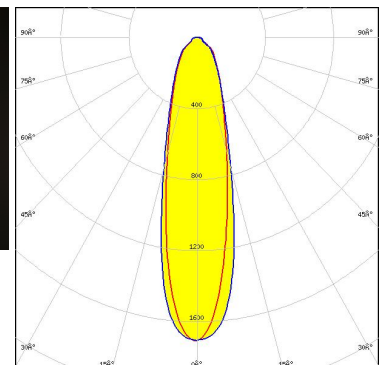
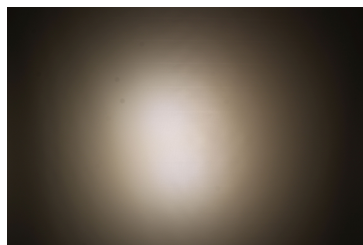
LED XLE-S44XTEHE (XT-E HE)
 FWHM / FWTM 29.0° / 89.0°
 Efficiency 92 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

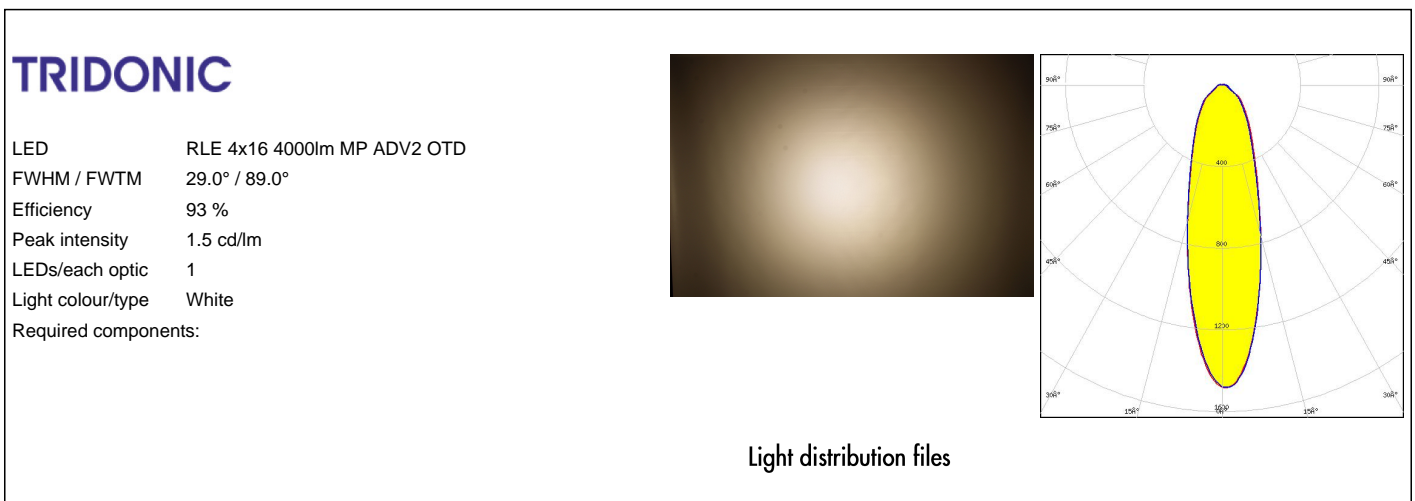
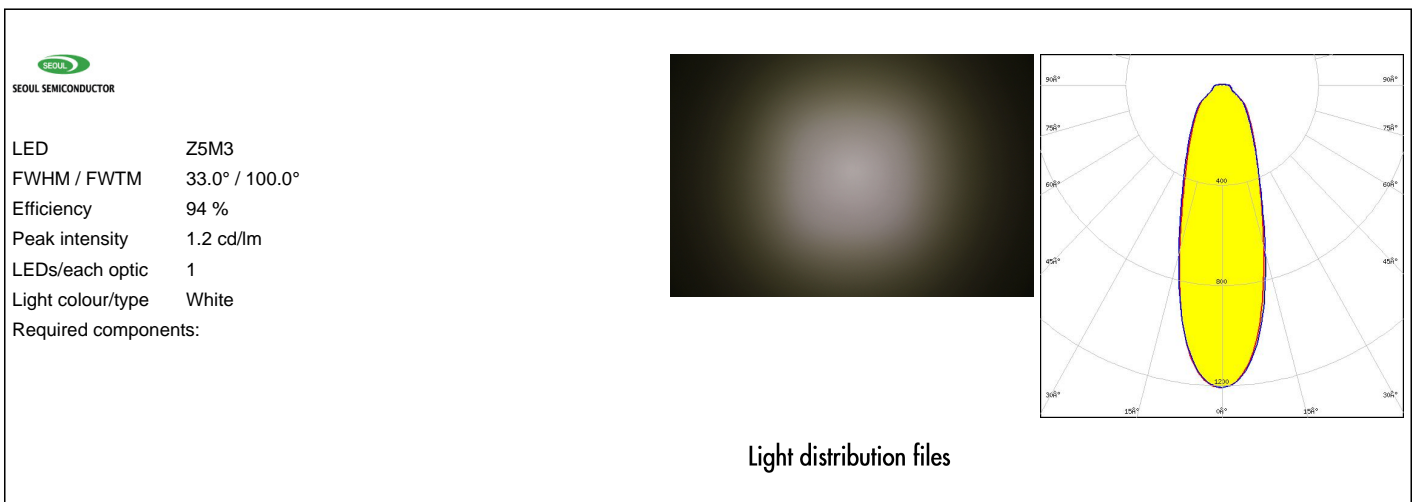
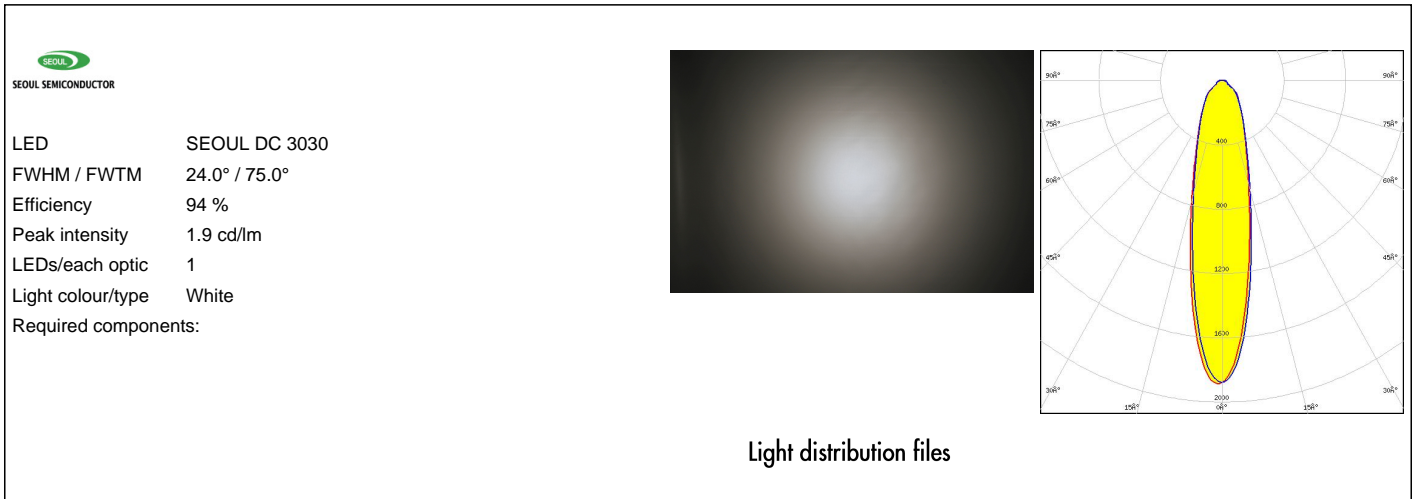
SEOUL SEMICONDUCTOR

LED SEOUL 3030
 FWHM / FWTM 26.0° / 78.0°
 Efficiency 90 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

OPTICAL RESULTS (MEASURED):



OPTICAL RESULTS (MEASURED):

TRIDONIC

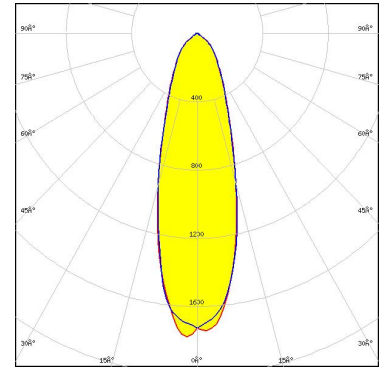
| | |
|----------------------|----------------------------|
| LED | RLE 4x8 2000lm MP ADV2 OTD |
| FWHM / FWTM | 29.0° / 89.0° |
| Efficiency | 93 % |
| Peak intensity | 1.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

Light distribution files

OPTICAL RESULTS (SIMULATED):



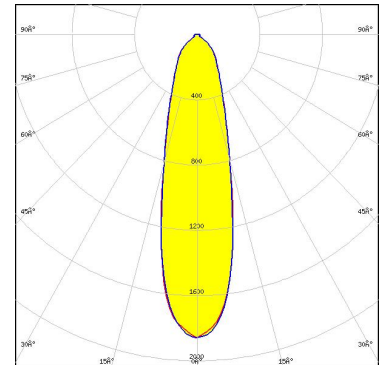
LED Bridgelux SMD 2835
FWHM / FWTM 31.0° / 81.0°
Efficiency 94 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



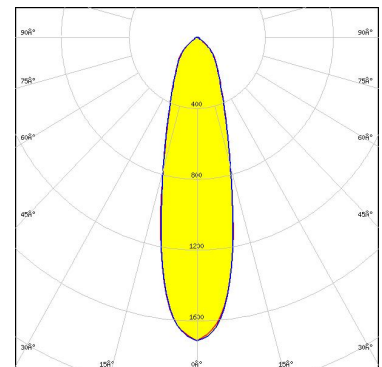
LED CSP 2727 (BXCP)
FWHM / FWTM 28.0° / 80.0 + 78.0°
Efficiency 93 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED CSP 2727 (BXCP)
FWHM / FWTM 28.0° / 80.0 + 78.0°
Efficiency 84 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



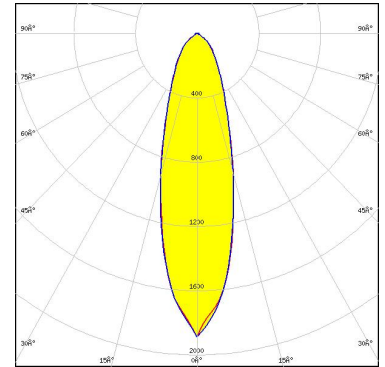
Protective plate, glass

Light distribution files

OPTICAL RESULTS (SIMULATED):



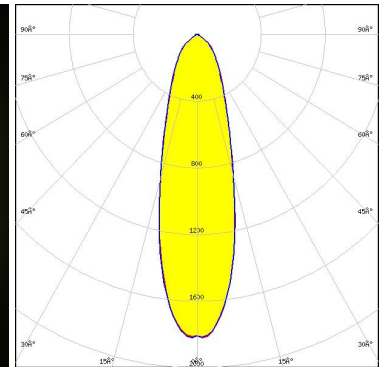
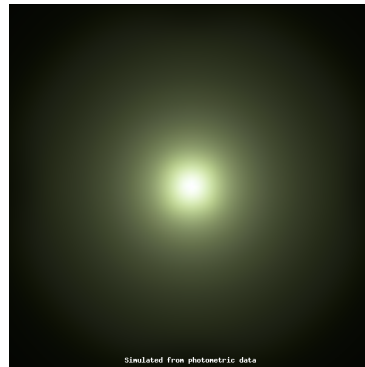
LED J Series 2835
 FWHM / FWTM 28.0° / 77.0°
 Efficiency 93 %
 Peak intensity 1.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



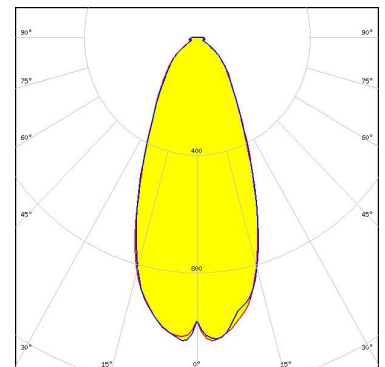
LED J Series 3030C
 FWHM / FWTM 30.0° / 80.0°
 Efficiency 94 %
 Peak intensity 1.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED J Series 5050C 6V E Class
 FWHM / FWTM 46.0° / 101.0°
 Efficiency 95 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

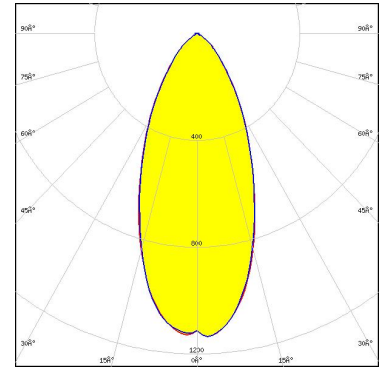


Light distribution files

OPTICAL RESULTS (SIMULATED):



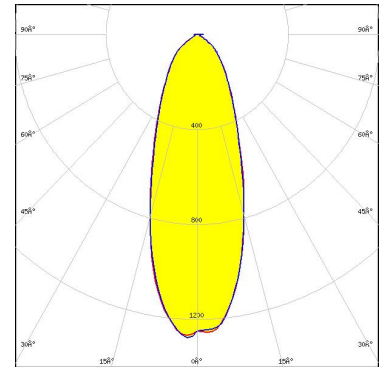
LED XP-G2 HE
FWHM / FWTM 46.0° / 90.0°
Efficiency 90 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



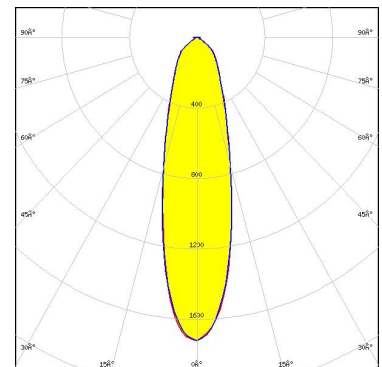
LED XP-G3
FWHM / FWTM 37.0° / 95.0°
Efficiency 91 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED XT-E
FWHM / FWTM 28.0° / 82.0°
Efficiency 91 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

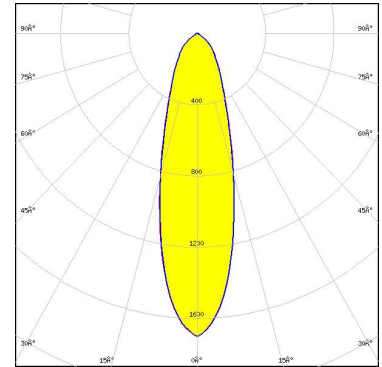
OPTICAL RESULTS (SIMULATED):



LED LUXEON 2835 Line
FWHM / FWTM 30.0° / 78.0°
Efficiency 85 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

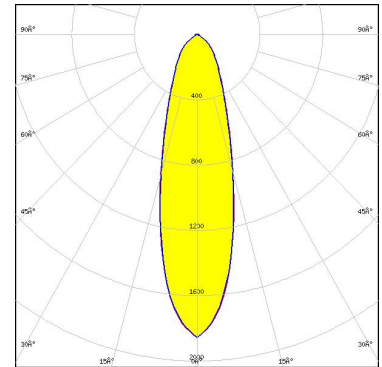
Protective plate, glass

Light distribution files



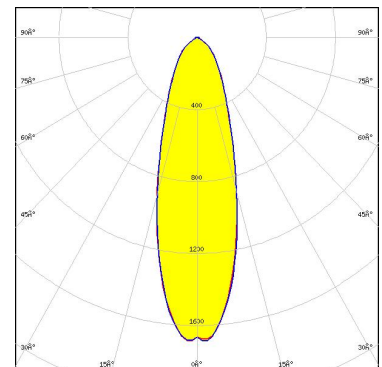
LED LUXEON 2835 Line
FWHM / FWTM 28.0° / 78.0°
Efficiency 93 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files



LED LUXEON 3030 HE Plus
FWHM / FWTM 32.0° / 82.0°
Efficiency 93 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files

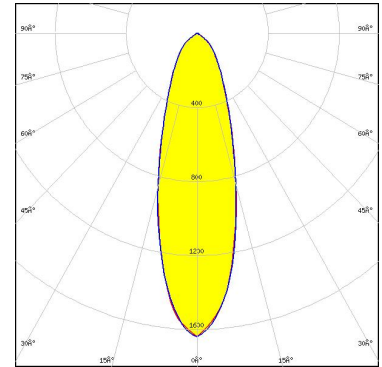


OPTICAL RESULTS (SIMULATED):



LED LUXEON 3535L HE PLUS
 FWHM / FWTM 30.0° / 80.0°
 Efficiency 86 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

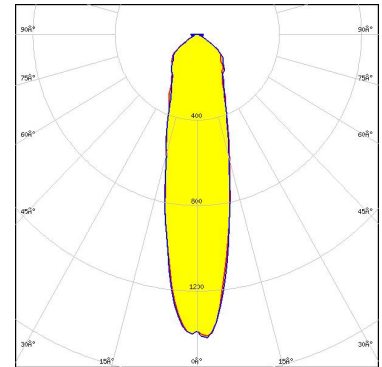
Protective plate, glass



Light distribution files



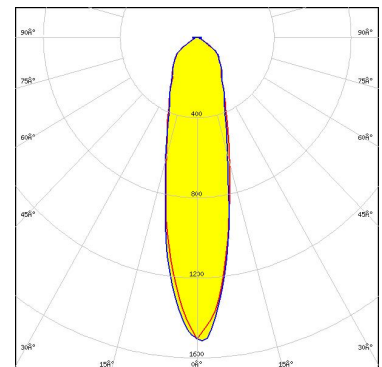
LED LUXEON C
 FWHM / FWTM 25.0° / 104.0°
 Efficiency 91 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour/type Blue
 Required components:



Light distribution files



LED LUXEON C
 FWHM / FWTM 25.0° / 96.0°
 Efficiency 91 %
 Peak intensity 1.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

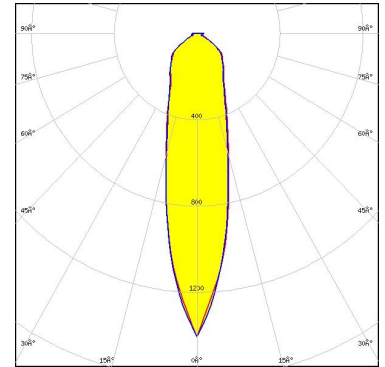


Light distribution files

OPTICAL RESULTS (SIMULATED):



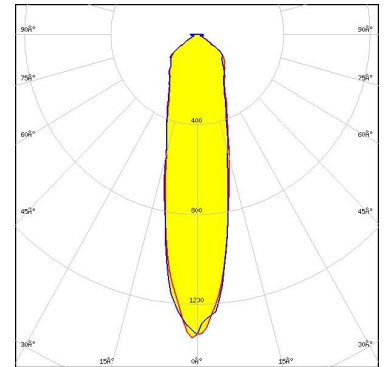
LED LUXEON C
FWHM / FWTM 25.0° / 105.0°
Efficiency 91 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour/type RGBW
Required components:



Light distribution files



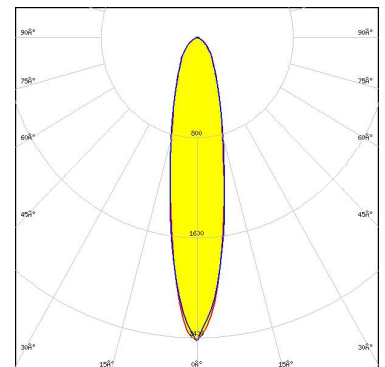
LED LUXEON C
FWHM / FWTM 25.0° / 107.0°
Efficiency 90 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour/type Green
Required components:



Light distribution files



LED LUXEON CZ
FWHM / FWTM 22.0° / 67.0°
Efficiency 94 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

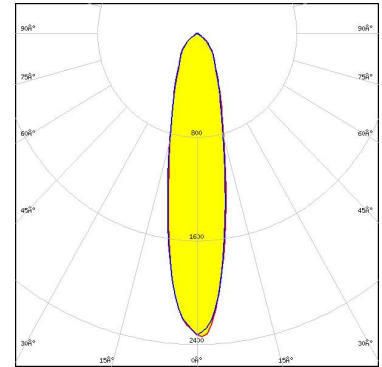


Light distribution files

OPTICAL RESULTS (SIMULATED):



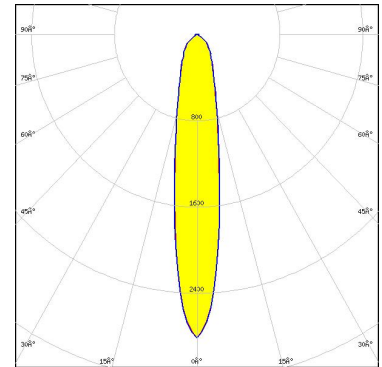
LED LUXEON CZ
FWHM / FWTM 23.0° / 70.0°
Efficiency 94 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour/type RGBW
Required components:



Light distribution files



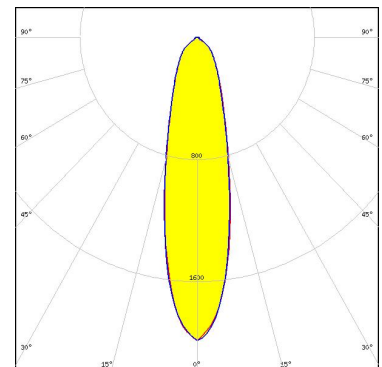
LED LUXEON HL1Z
FWHM / FWTM 18.0° / 62.0°
Efficiency 94 %
Peak intensity 2.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED LUXEON HL2Z
FWHM / FWTM 26.0° / 76.0°
Efficiency 93 %
Peak intensity 2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

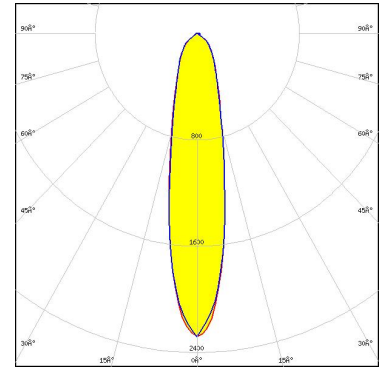


Light distribution files

OPTICAL RESULTS (SIMULATED):



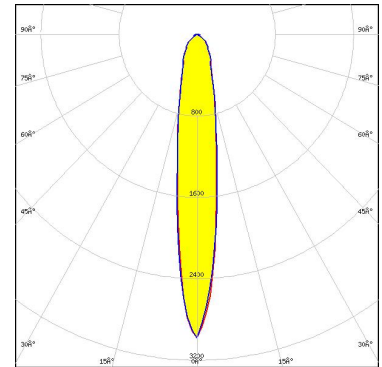
LED NCSxE17A
 FWHM / FWTM 22.0° / 69.0°
 Efficiency 91 %
 Peak intensity 2.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



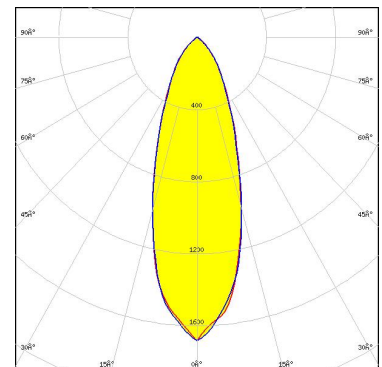
LED NFSWE11A
 FWHM / FWTM 16.0° / 56.0°
 Efficiency 90 %
 Peak intensity 3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED NVSW219D
 FWHM / FWTM 34.0° / 80.0°
 Efficiency 93 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

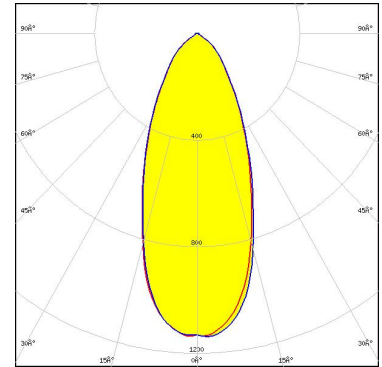


Light distribution files

OPTICAL RESULTS (SIMULATED):



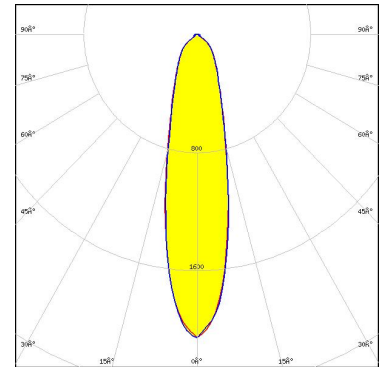
LED NVSW519A
FWHM / FWTM 43.0° / 95.0°
Efficiency 90 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



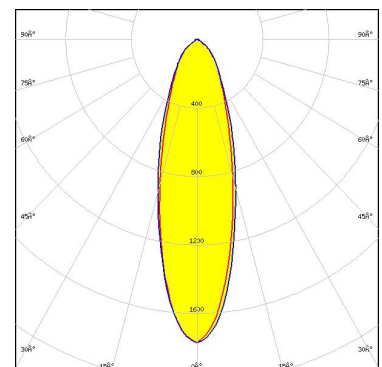
LED NVSxE21A
FWHM / FWTM 25.0° / 74.0°
Efficiency 92 %
Peak intensity 2.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED Duris E5
FWHM / FWTM 30.0° / 80.0°
Efficiency 93 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

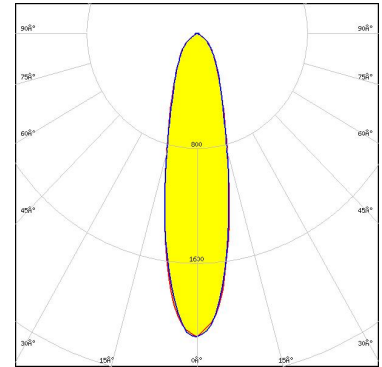


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

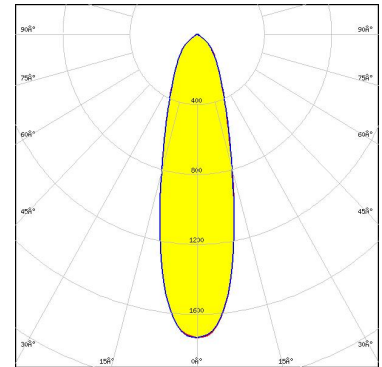
LED OSCONIQ C 2424
 FWHM / FWTM 26.0° / 73.0°
 Efficiency 93 %
 Peak intensity 2.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED OSCONIQ C 3030
 FWHM / FWTM 28.0° / 78.0°
 Efficiency 86 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

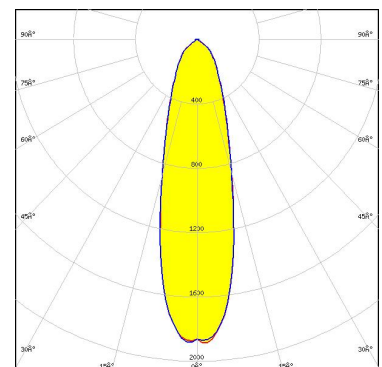


Protective plate, glass

Light distribution files

OSRAM
Opto Semiconductors

LED OSCONIQ C 3030
 FWHM / FWTM 28.0° / 78.0°
 Efficiency 94 %
 Peak intensity 1.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

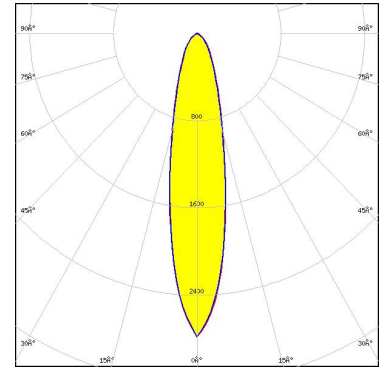


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

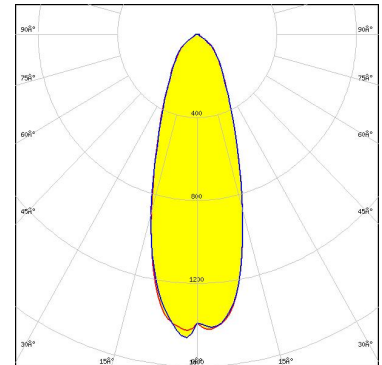
LED OSCONIQ P 3030
 FWHM / FWTM 22.0° / 60.0°
 Efficiency 94 %
 Peak intensity 2.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

OSRAM
Opto Semiconductors

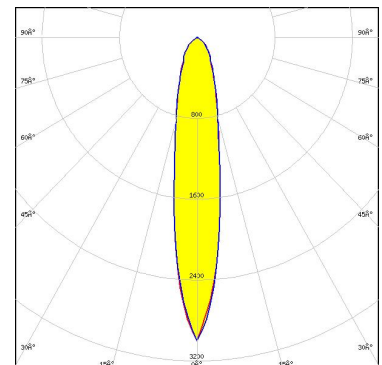
LED OSCONIQ P 3737 (3W version)
 FWHM / FWTM 36.0 + 34.0° / 88.0 + 87.0°
 Efficiency 94 %
 Peak intensity 1.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED OSLON Pure 1414
 FWHM / FWTM 18.0° / 58.0°
 Efficiency 95 %
 Peak intensity 3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

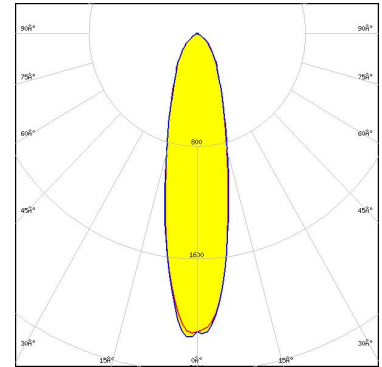


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

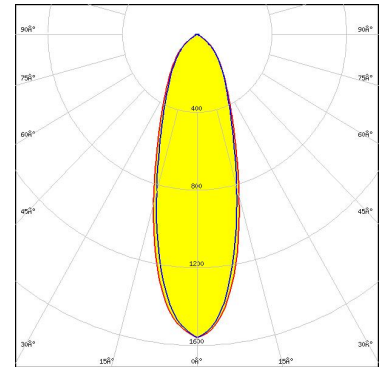
LED OSLON Square CSSRM2/CSSRM3
 FWHM / FWTM 25.0° / 74.0°
 Efficiency 94 %
 Peak intensity 2.2 cd/lm
 LEDs/each optic 1
 Light colour/type Far Red
 Required components:



Light distribution files

OSRAM
Opto Semiconductors

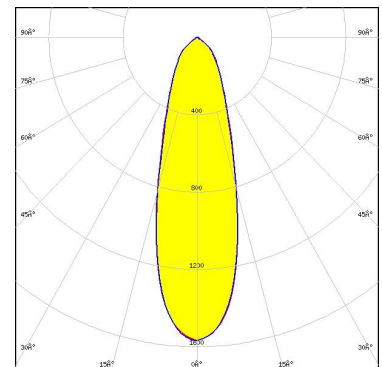
LED OSLON Square CSSRM2/CSSRM3
 FWHM / FWTM 32.0° / 87.0°
 Efficiency 94 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour/type Red
 Required components:



Light distribution files

SAMSUNG

LED LH231B
 FWHM / FWTM 31.0° / 80.0°
 Efficiency 83 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



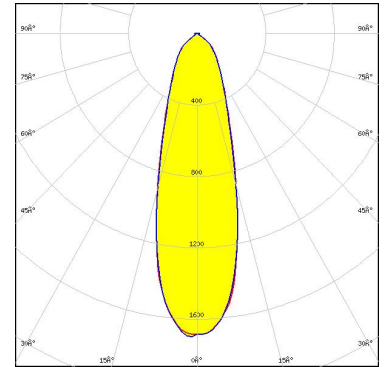
Protective plate, glass

Light distribution files

OPTICAL RESULTS (SIMULATED):

SAMSUNG

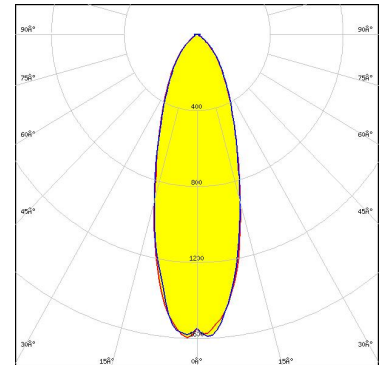
LED LH231B
FWHM / FWTM 31.0° / 82.0°
Efficiency 91 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

SAMSUNG

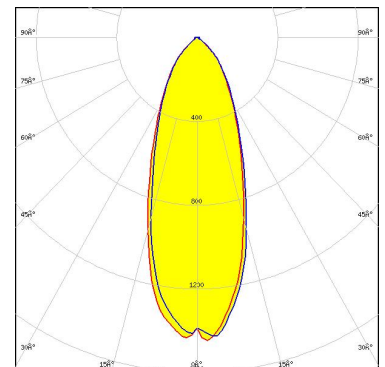
LED LH351B
FWHM / FWTM 33.0° / 83.0°
Efficiency 94 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

SAMSUNG

LED LH351C
FWHM / FWTM 37.0° / 87.0°
Efficiency 94 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

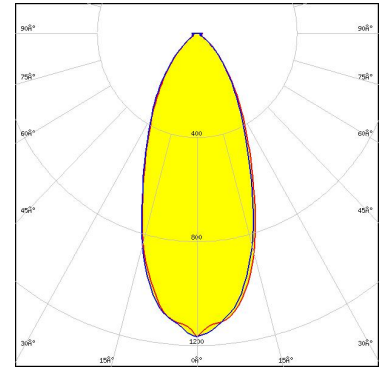


Light distribution files

OPTICAL RESULTS (SIMULATED):

SAMSUNG

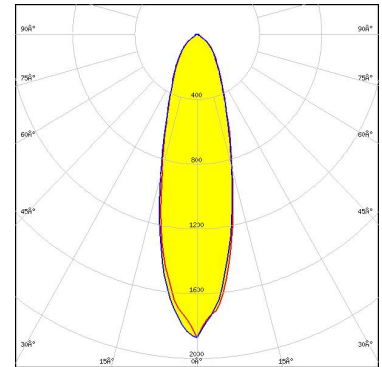
LED LH351D
FWHM / FWTM 44.0° / 93.0°
Efficiency 93 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

SAMSUNG

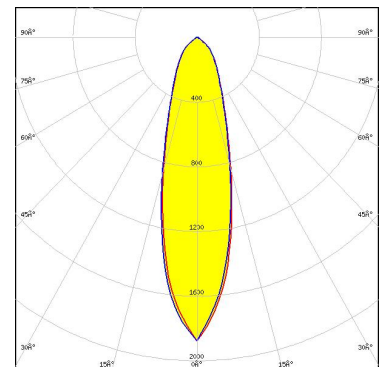
LED LM301B
FWHM / FWTM 27.0° / 78.0°
Efficiency 93 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

SAMSUNG

LED LM301B
FWHM / FWTM 28.0° / 76.0°
Efficiency 87 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Protective plate, glass

Light distribution files

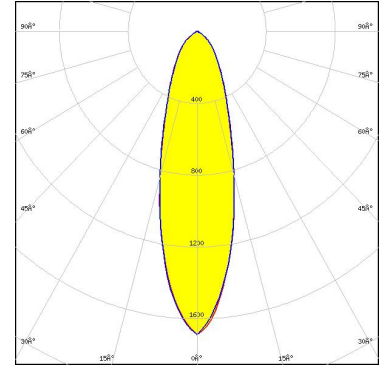
OPTICAL RESULTS (SIMULATED):

SAMSUNG

LED LM301B
FWHM / FWTM 30.0° / 78.0°
Efficiency 86 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Protective plate, glass

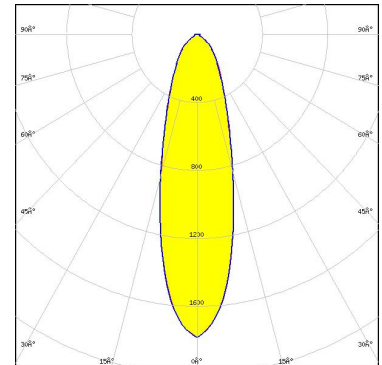
Light distribution files



SAMSUNG

LED LM302D
FWHM / FWTM 29.0° / 79.0°
Efficiency 93 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

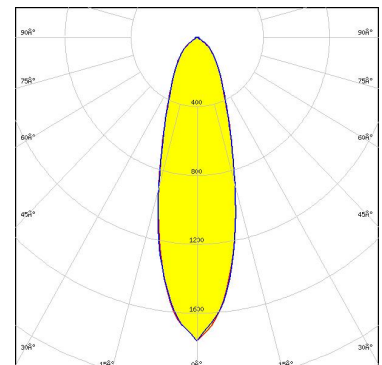
Light distribution files



SAMSUNG

LED LM302Z plus
FWHM / FWTM 30.0° / 80.0°
Efficiency 93 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files



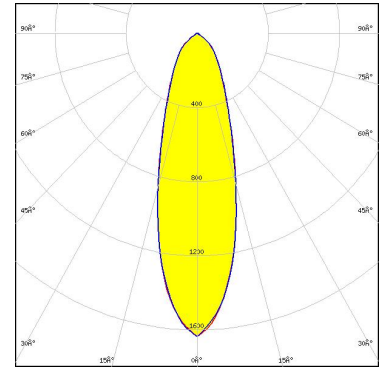
OPTICAL RESULTS (SIMULATED):

SAMSUNG

LED LM302Z plus
 FWHM / FWTM 30.0° / 82.0°
 Efficiency 87 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

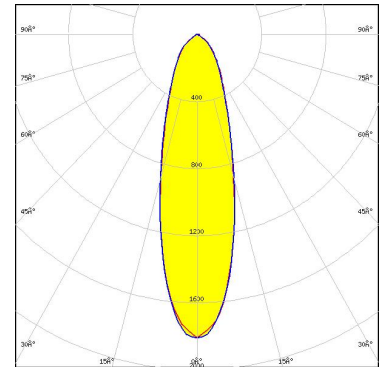
Protective plate, glass

Light distribution files



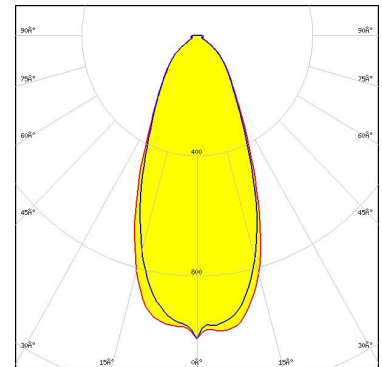
LED SEOUL DC 3030C
 FWHM / FWTM 30.0° / 80.0°
 Efficiency 93 %
 Peak intensity 1.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

Light distribution files




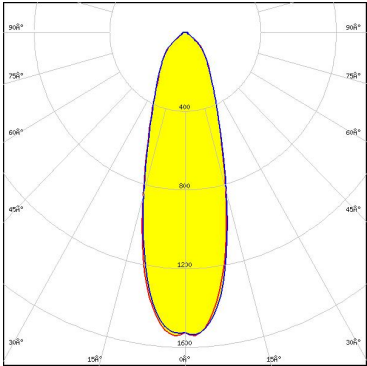
LED SEOUL DC 5050 6V
 FWHM / FWTM 45.0° / 100.0°
 Efficiency 91 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

Light distribution files



OPTICAL RESULTS (SIMULATED):

| | |
|---|---------------|
|  SEOL SEMICONDUCTOR | |
| LED | Z8Y22T |
| FWHM / FWTM | 31.0° / 82.0° |
| Efficiency | 93 % |
| Peak intensity | 1.6 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)