

HEIDI-D

~10° diffused spot beam

SPECIFICATION:

Dimensions	Ø 21.6 mm
Height	11.9 mm
Fastening	tape, pin
ROHS compliant	yes ⓘ

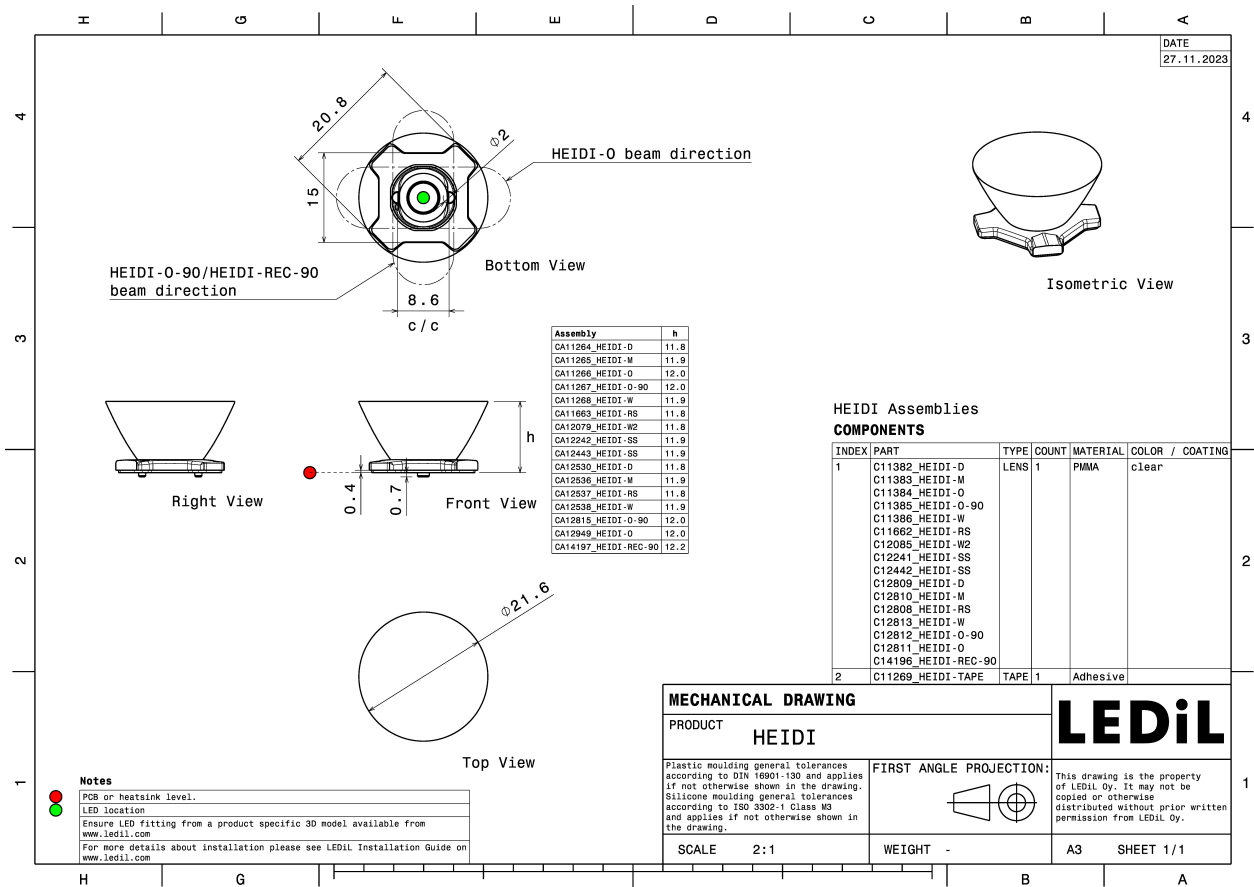


MATERIALS:

Component	Type	Material	Colour	Finish	Length
HEIDI-D	Single lens	PMMA	clear		21.6
HEIDI-TAPE	Tape	Acrylic foam	black		

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA11264_HEIDI-D	Single lens	3264	204	204	10.6
» Box size: 480 x 280 x 300 mm					



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

OPTICAL RESULTS (MEASURED):



LED	XB-D
FWHM / FWTM	10.0° / 22.0°
Efficiency	90 %
Peak intensity	12.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

[Light distribution files](#)



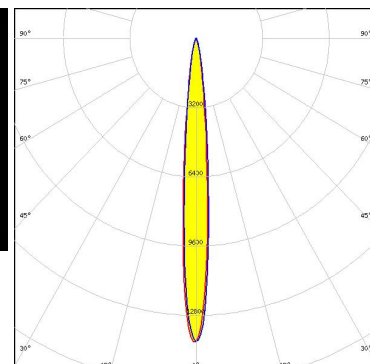
LED	XB-H
FWHM / FWTM	11.0° / 25.0°
Efficiency	87 %
Peak intensity	12.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



[Light distribution files](#)



LED	XD16
FWHM / FWTM	10.0° / 22.0°
Efficiency	93 %
Peak intensity	14.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



[Light distribution files](#)

OPTICAL RESULTS (MEASURED):

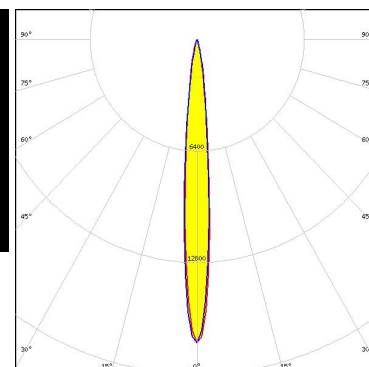


LED XP-E
FWHM / FWTM 9.0° / 18.0°
Efficiency 93 %
Peak intensity 22 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files



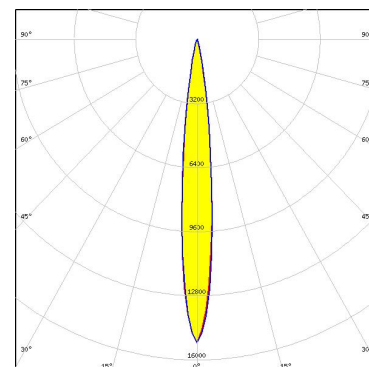
LED XP-E2
FWHM / FWTM 10.0° / 23.0°
Efficiency 88 %
Peak intensity 17.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED XP-G
FWHM / FWTM 12.0° / 23.0°
Efficiency 93 %
Peak intensity 14.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

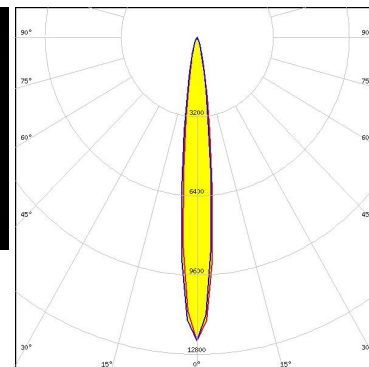


Light distribution files

OPTICAL RESULTS (MEASURED):



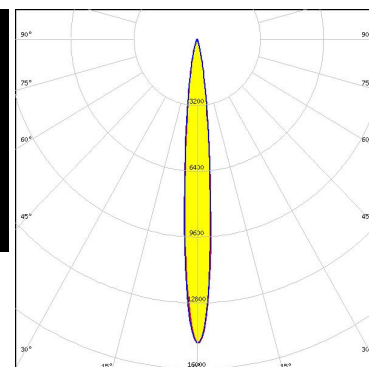
LED XP-G2
FWHM / FWTM 11.0° / 24.0°
Efficiency 88 %
Peak intensity 15 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



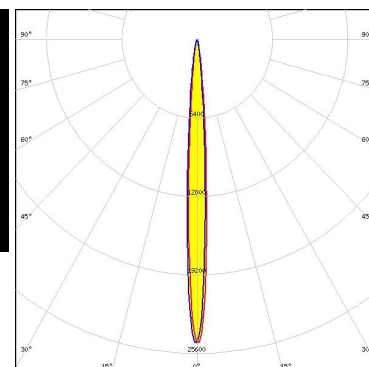
LED XQ-E HD
FWHM / FWTM 10.0° / 24.0°
Efficiency 94 %
Peak intensity 14.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED XQ-E HI
FWHM / FWTM 7.0° / 17.0°
Efficiency 93 %
Peak intensity 24.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

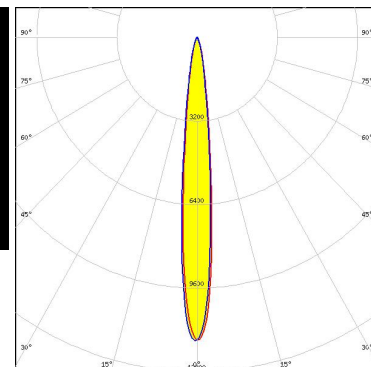


Light distribution files

OPTICAL RESULTS (MEASURED):



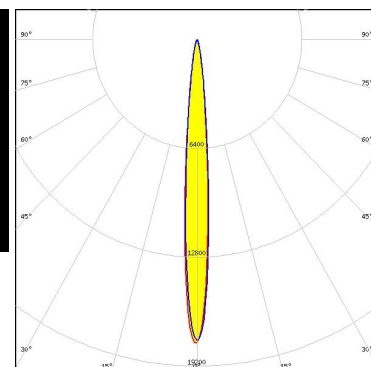
LED XT-E
 FWHM / FWTM 11.0° / 26.0°
 Efficiency 94 %
 Peak intensity 11.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



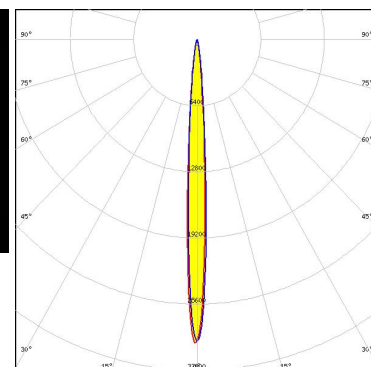
LED LUXEON C
 FWHM / FWTM 9.0° / 21.0°
 Efficiency 89 %
 Peak intensity 17.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED LUXEON CZ
 FWHM / FWTM 7.0° / 16.0°
 Efficiency 94 %
 Peak intensity 29 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

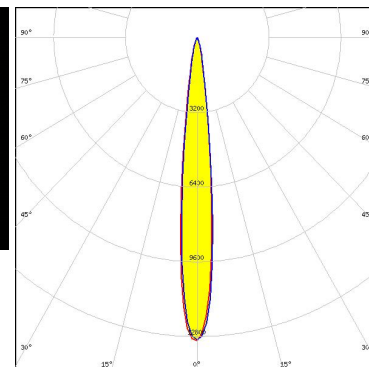


Light distribution files

OPTICAL RESULTS (MEASURED):



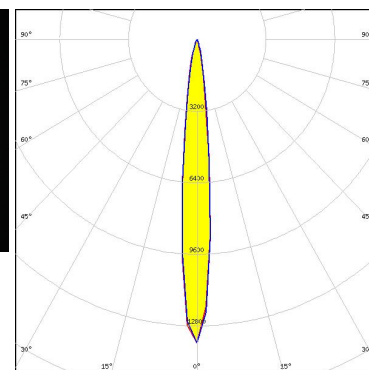
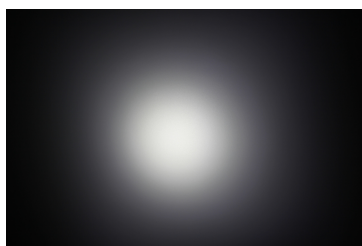
LED LUXEON T
FWHM / FWTM 12.0° / 25.0°
Efficiency 89 %
Peak intensity 11.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED LUXEON TX
FWHM / FWTM 12.0° / 25.0°
Efficiency 88 %
Peak intensity 13.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



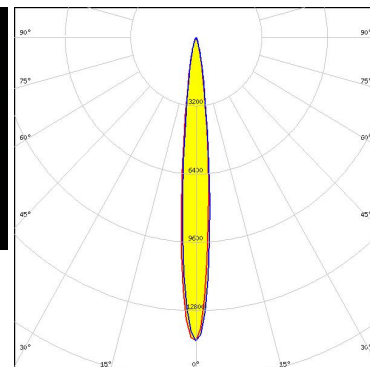
LED NCSxx19A
FWHM / FWTM 9.0° / 23.0°
Efficiency 88 %
Peak intensity 11.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files

OPTICAL RESULTS (MEASURED):



LED NCSxx19B
FWHM / FWTM 11.0° / 25.0°
Efficiency 85 %
Peak intensity 14.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

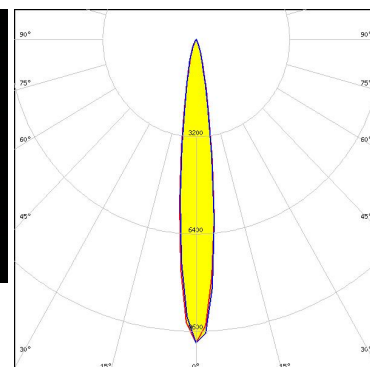


LED NVSxx19A
FWHM / FWTM 12.0° / 29.0°
Efficiency 88 %
Peak intensity 8.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files



LED NVSxx19B/NVSxx19C
FWHM / FWTM 14.0° / 30.0°
Efficiency 91 %
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 EC
FWHM / FWTM 10.0° / 22.0°
Efficiency 90 %
Peak intensity 12.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files

OSRAM
Opto Semiconductors

LED OSLON SSL 150
FWHM / FWTM 9.0° / 22.0°
Efficiency 92 %
Peak intensity 15 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files

OSRAM
Opto Semiconductors

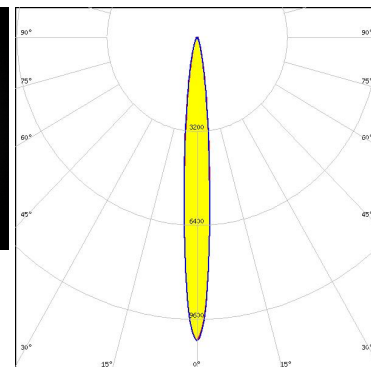
LED OSLON SSL 80
FWHM / FWTM 7.0° / 19.0°
Efficiency 89 %
Peak intensity 19.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files

OPTICAL RESULTS (MEASURED):

SAMSUNG

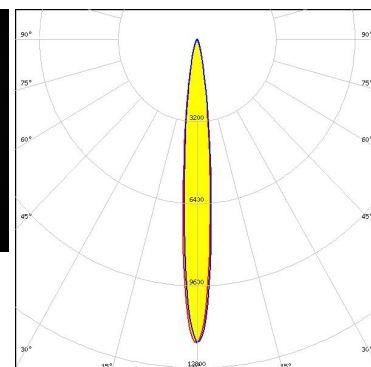
LED LH181A
FWHM / FWTM 10.0° / 26.0°
Efficiency 88 %
Peak intensity 10 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

SAMSUNG

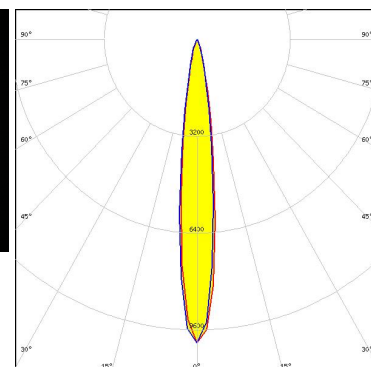
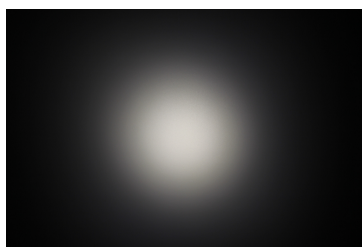
LED LH181B
FWHM / FWTM 11.0° / 25.0°
Efficiency 94 %
Peak intensity 11.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

SAMSUNG

LED LH351B
FWHM / FWTM 14.0° / 29.0°
Efficiency 88 %
Peak intensity 10 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

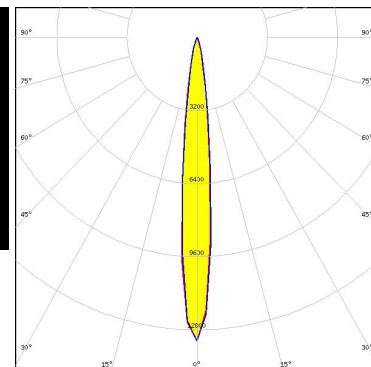
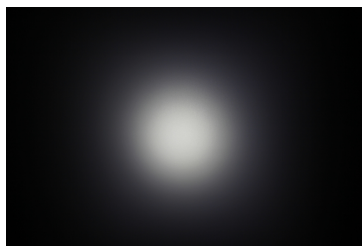


Light distribution files

OPTICAL RESULTS (MEASURED):

SAMSUNG

LED LH351Z
FWHM / FWTM 12.0° / 26.0°
Efficiency 88 %
Peak intensity 13.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



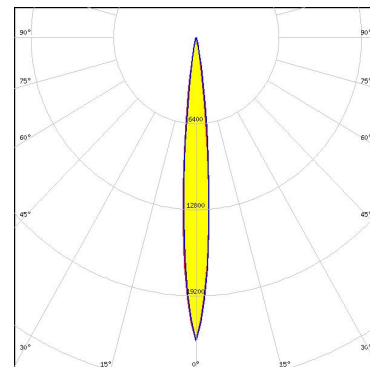
LED Z5
FWHM / FWTM 8.0° / 20.0°
Efficiency 87 %
Peak intensity 22.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files

OPTICAL RESULTS (SIMULATED):



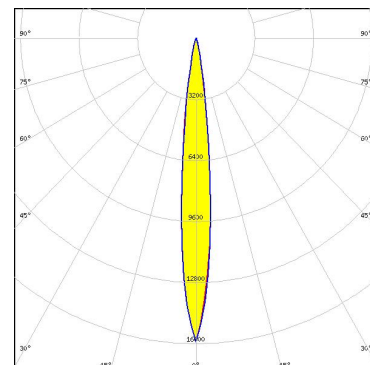
LED XP-E2
FWHM / FWTM 10.0° / 20.0°
Efficiency 96 %
Peak intensity 22.6 cd/lm
LEDs/each optic 1
Light colour/type Green
Required components:



Light distribution files



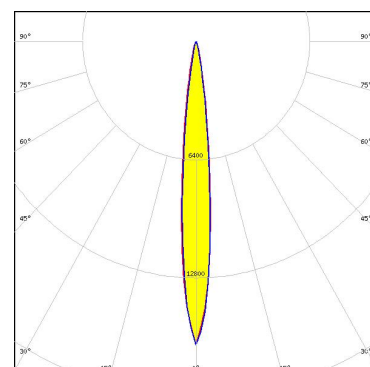
LED XP-L HI
FWHM / FWTM 12.0° / 22.0°
Efficiency 96 %
Peak intensity 15.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED LUXEON 3030 HV
FWHM / FWTM 11.0° / 23.0°
Efficiency 94 %
Peak intensity 16.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

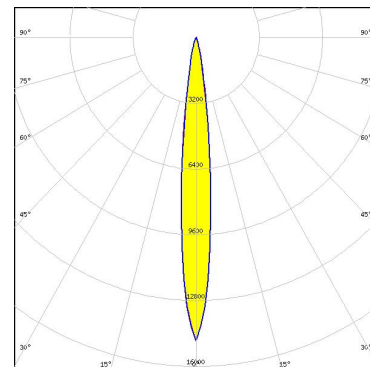


Light distribution files

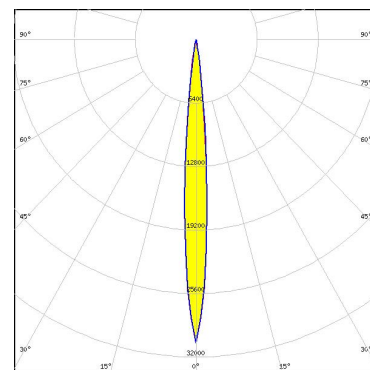
OPTICAL RESULTS (SIMULATED):



LED LUXEON HL2Z
FWHM / FWTM 12.0° / 24.0°
Efficiency 96 %
Peak intensity 14.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



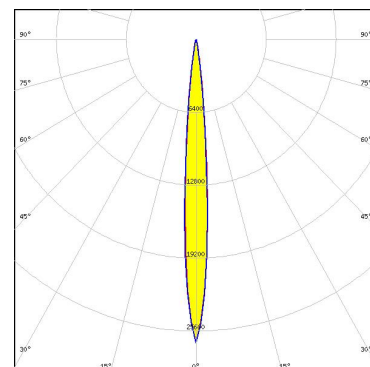
LED LUXEON Rubix
FWHM / FWTM 8.0° / 18.0°
Efficiency 95 %
Peak intensity 30.6 cd/lm
LEDs/each optic 1
Light colour/type Red
Required components:



Light distribution files



LED LUXEON SunPlus 20 Line (120 deg)
FWHM / FWTM 8.0° / 18.0°
Efficiency 96 %
Peak intensity 26.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

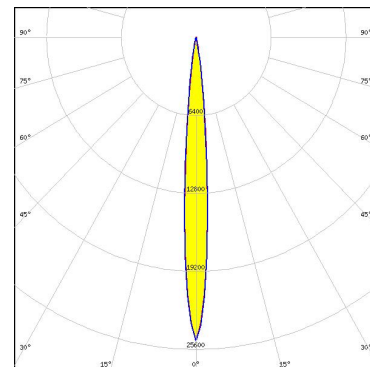


Light distribution files

OPTICAL RESULTS (SIMULATED):



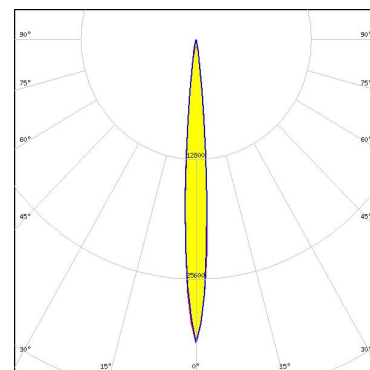
LED LUXEON SunPlus 20 Line (150 deg)
 FWHM / FWTM 8.0° / 18.0°
 Efficiency 91 %
 Peak intensity 24.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



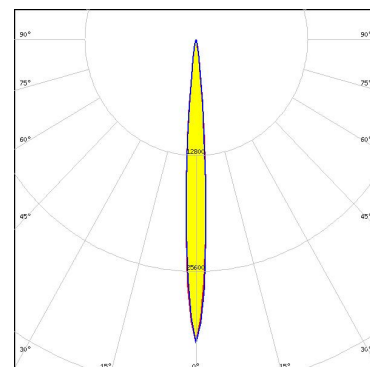
LED LUXEON Z
 FWHM / FWTM 9.0° / 17.0°
 Efficiency 94 %
 Peak intensity 32.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED LUXEON Z ES
 FWHM / FWTM 7.7° / 16.0°
 Efficiency 94 %
 Peak intensity 33.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

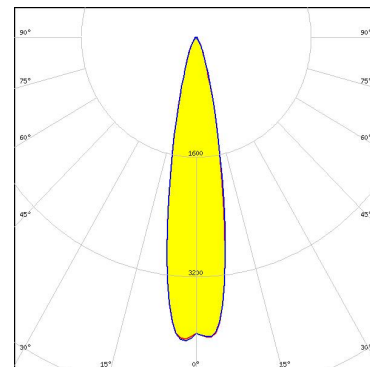


Light distribution files

OPTICAL RESULTS (SIMULATED):



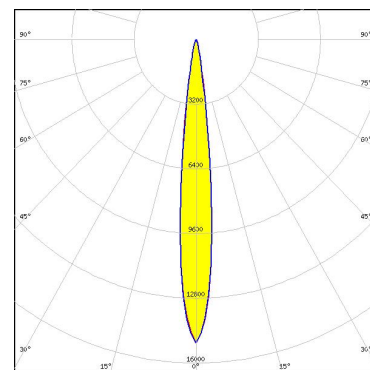
LED NCSxE17A
FWHM / FWTM 22.0° / 42.0°
Efficiency 93 %
Peak intensity 4.1 cd/lm
LEDs/each optic 4
Light colour/type White
Required components:



Light distribution files



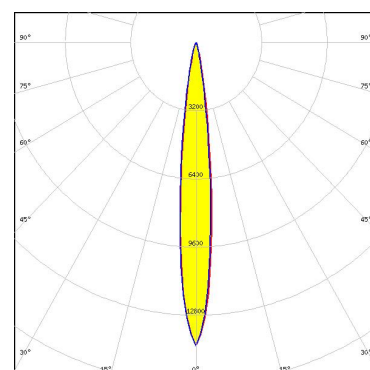
LED NVSxx19B/NVSxx19C
FWHM / FWTM 12.0° / 22.0°
Efficiency 94 %
Peak intensity 15 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED Duris S5 (Single chip)
FWHM / FWTM 12.0° / 24.0°
Efficiency 96 %
Peak intensity 14.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

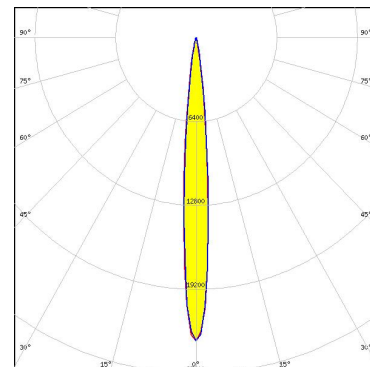


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

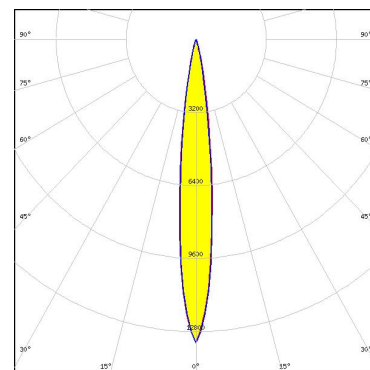
LED OSCONIQ P 3030
FWHM / FWTM 9.4° / 20.0°
Efficiency 97 %
Peak intensity 23.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

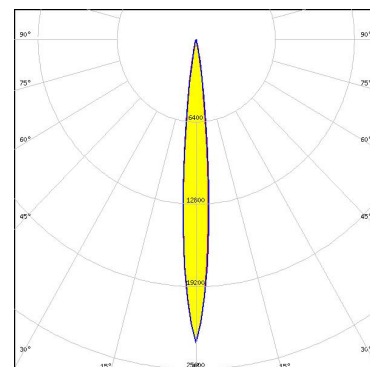
LED OSLOM Square CSSRM2/CSSRM3
FWHM / FWTM 13.0° / 26.0°
Efficiency 94 %
Peak intensity 13.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED OSLOM SSL 150
FWHM / FWTM 10.0° / 20.0°
Efficiency 96 %
Peak intensity 23.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

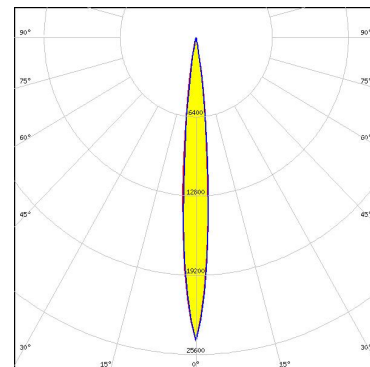


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

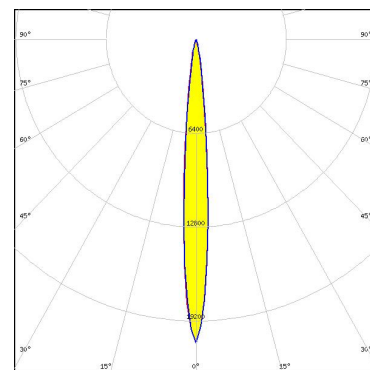
LED OSLON SSL 150
FWHM / FWTM 10.0° / 19.0°
Efficiency 95 %
Peak intensity 24.5 cd/lm
LEDs/each optic 1
Light colour/type Red
Required components:



Light distribution files

OSRAM
Opto Semiconductors

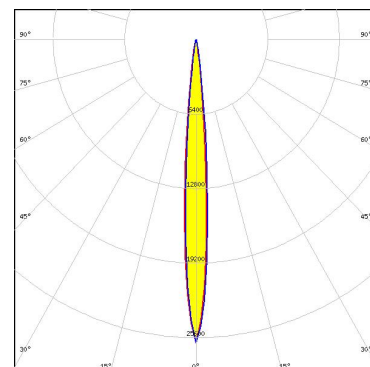
LED OSLON SSL 80
FWHM / FWTM 9.4° / 21.0°
Efficiency 94 %
Peak intensity 20.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

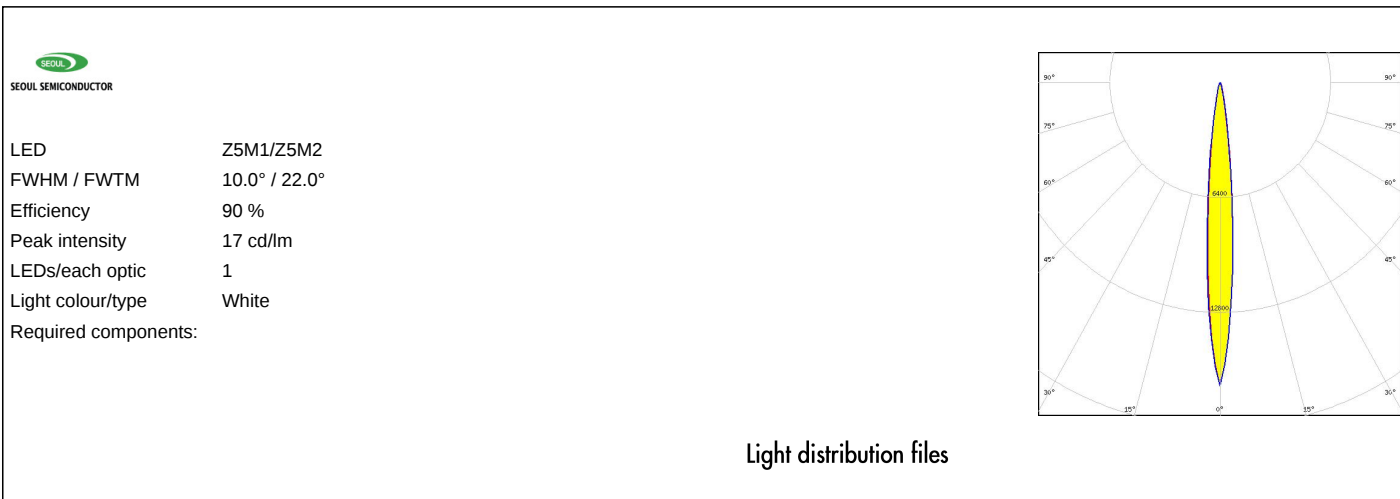
OSRAM
Opto Semiconductors

LED SFH 4170S
FWHM / FWTM 9.0° / 17.0°
Efficiency 88 %
LEDs/each optic 1
Light colour/type IR
Required components:



Light distribution files

OPTICAL RESULTS (SIMULATED):



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 13
FI-24240 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)