

TINA2-RS

~14° spot beam optimized for Nichia NS6x83.
Assembly with holder and installation tape.

SPECIFICATION:

Dimensions	Ø 16.1
Height	11 mm
Fastening	tape
ROHS compliant	yes ⓘ

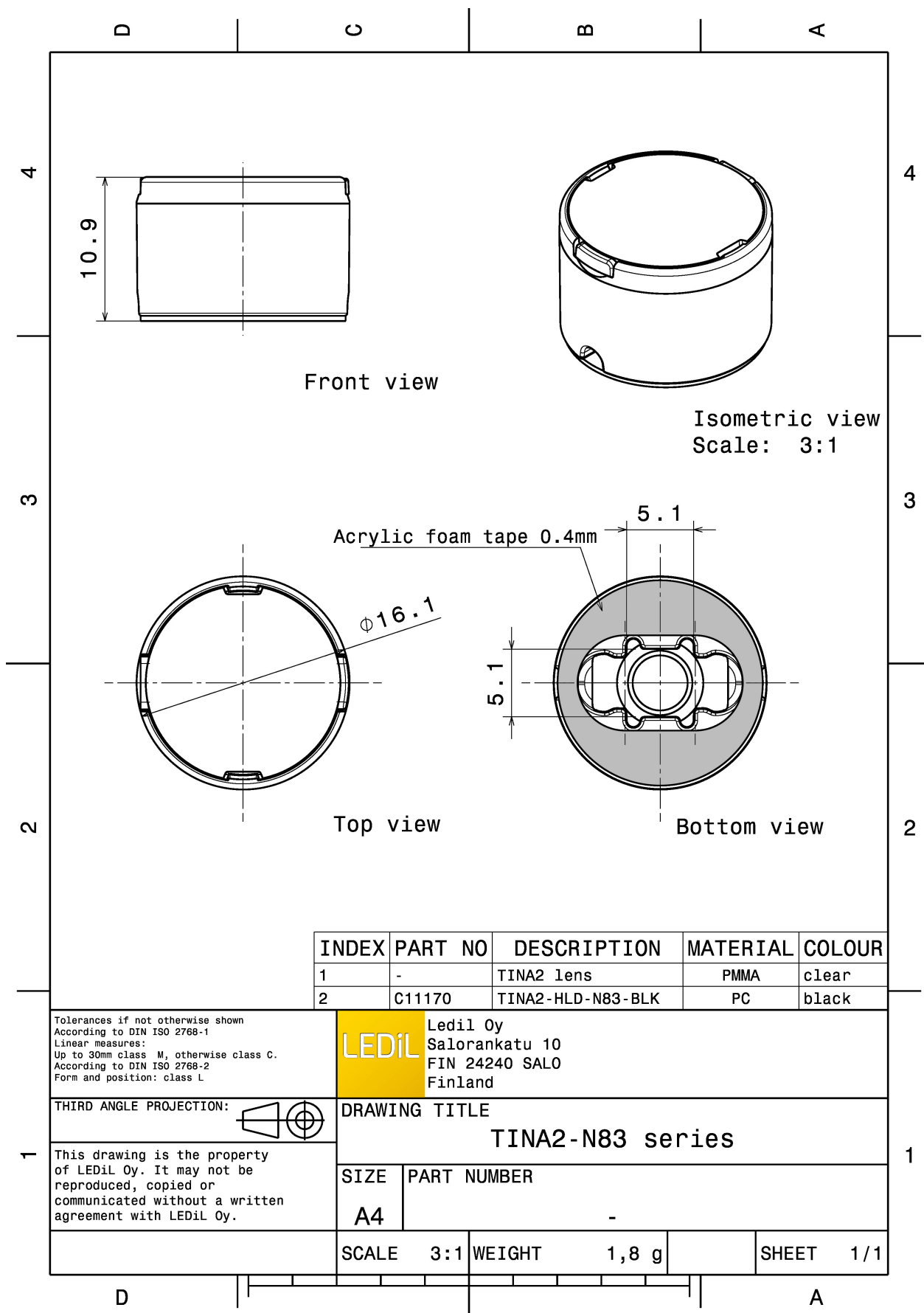


MATERIALS:

Component	Type	Material	Colour	Finish	Length (mm)
TINA2-HLD-N83-BLK	Holder	PC	black		
TINA2-RS	Single lens	PMMA	clear		
TINA-TAPE3	Tape	Acryl tape	black		

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
CA11171_TINA2-RS » Box size: 451 x 241 x 298 mm	4140	230	230	8.4

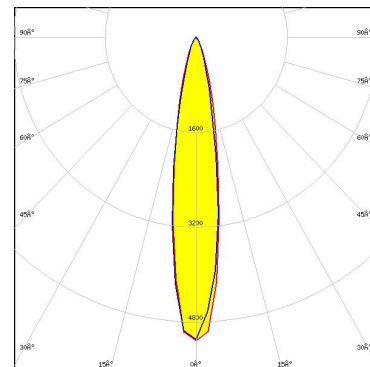


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):



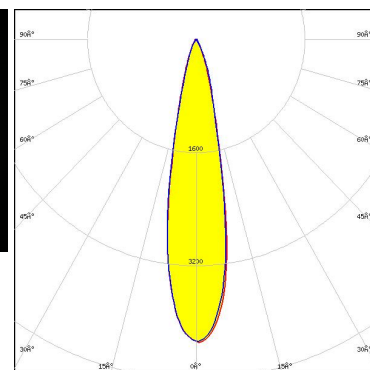
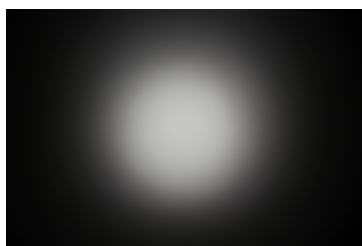
LED MX-6
FWHM / FWTM 18.0° / 40.0°
Efficiency 89 %
Peak intensity 5.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED LUXEON V
FWHM / FWTM 21.0° / 41.0°
Efficiency 82 %
Peak intensity 4.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



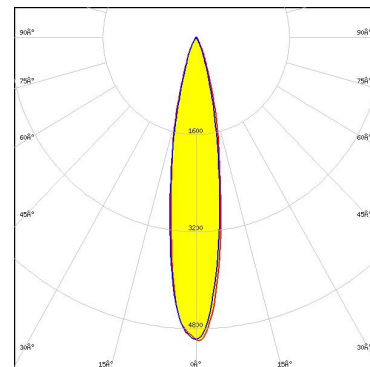
LED NS3x83
FWHM / FWTM 15.0°
Efficiency 93 %
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files

OPTICAL RESULTS (MEASURED):



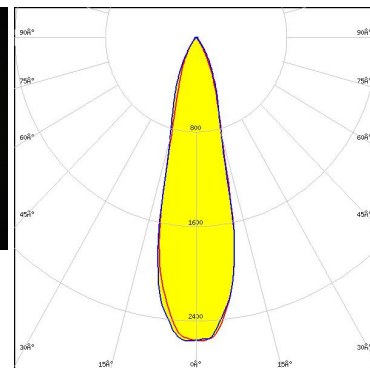
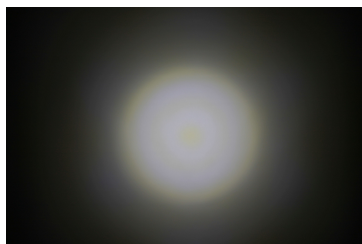
LED NS6x83
FWHM / FWTM 19.0° / 42.0°
Efficiency 93 %
Peak intensity 5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED LH508A
FWHM / FWTM 26.0° / 53.0°
Efficiency 76 %
Peak intensity 2.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

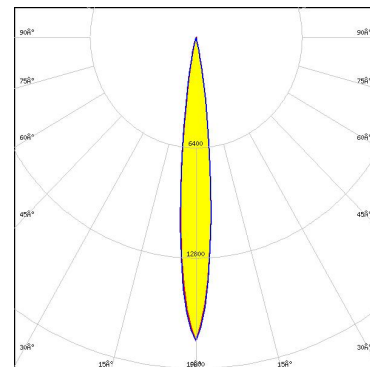


Light distribution files

OPTICAL RESULTS (SIMULATED):



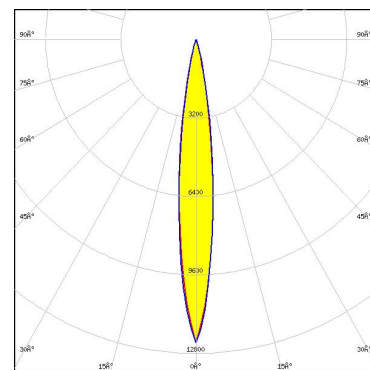
LED XP-E2
 FWHM / FWTM 12.0° / 22.0°
 Efficiency 91 %
 Peak intensity 18.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



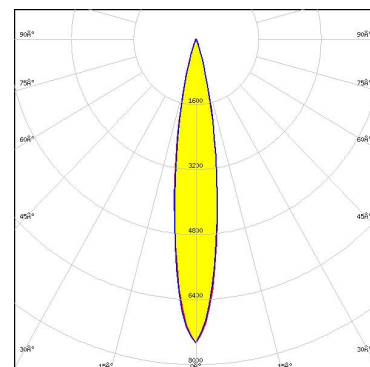
LED XP-G2
 FWHM / FWTM 14.0° / 27.0°
 Efficiency 91 %
 Peak intensity 12.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED XP-G3
 FWHM / FWTM 16.0° / 34.0°
 Efficiency 87 %
 Peak intensity 7.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

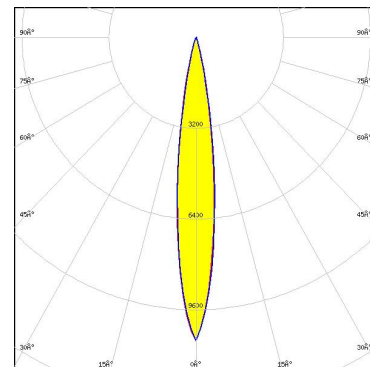


Light distribution files

OPTICAL RESULTS (SIMULATED):



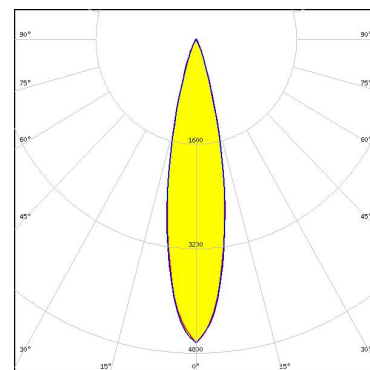
LED XP-L HI
 FWHM / FWTM 14.0° / 28.0°
 Efficiency 92 %
 Peak intensity 10.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



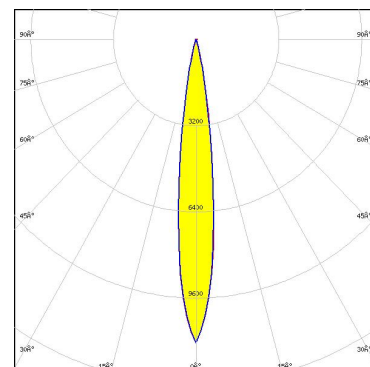
LED XP-L2
 FWHM / FWTM 22.0° / 41.0°
 Efficiency 86 %
 Peak intensity 4.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED XT-E
 FWHM / FWTM 14.0° / 26.0°
 Efficiency 85 %
 Peak intensity 11.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

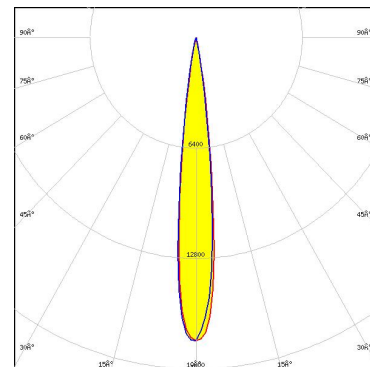


Light distribution files

OPTICAL RESULTS (SIMULATED):



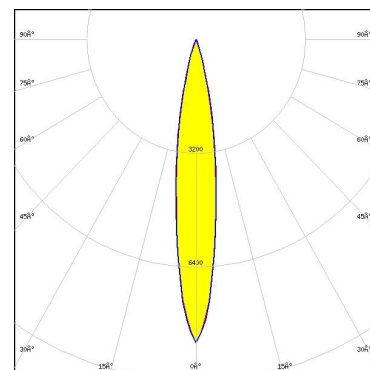
LED LUXEON CZ
FWHM / FWTM 12.0° / 22.0°
Efficiency 92 %
Peak intensity 17.7 cd/Im
LEDs/each optic 1
Light colour/type Red
Required components:



Light distribution files



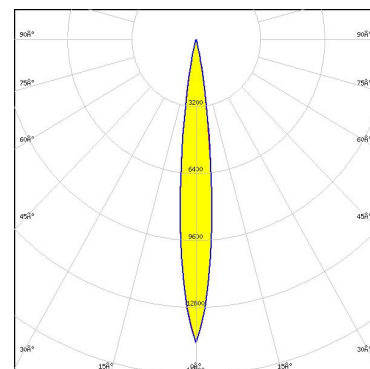
LED LUXEON HL2X
FWHM / FWTM 16.0° / 32.0°
Efficiency 91 %
Peak intensity 8.5 cd/Im
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED SST-20 Gen1
FWHM / FWTM 12.0° / 24.0°
Efficiency 88 %
Peak intensity 14.5 cd/Im
LEDs/each optic 1
Light colour/type White
Required components:

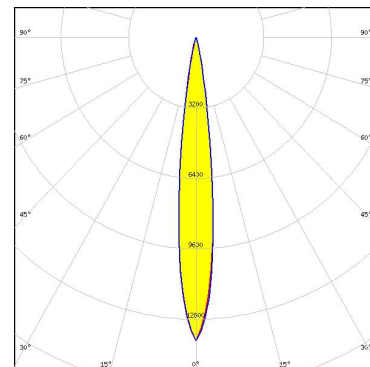


Light distribution files

OPTICAL RESULTS (SIMULATED):



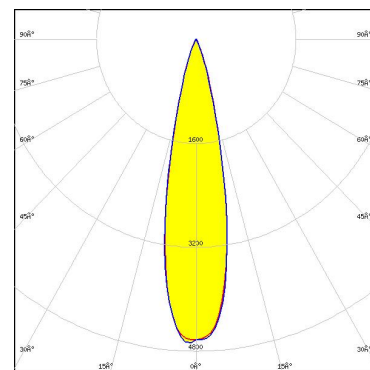
LED SST-20V
FWHM / FWTM 14.0° / 24.0°
Efficiency 89 %
Peak intensity 13.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



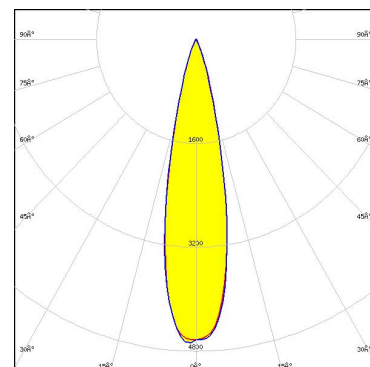
LED NV4WB35AM
FWHM / FWTM 22.0° / 40.0°
Efficiency 89 %
Peak intensity 4.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED NV4WB35AM
FWHM / FWTM 22.0° / 40.0°
Efficiency 89 %
Peak intensity 4.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

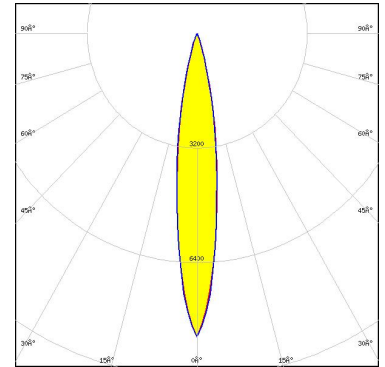


Light distribution files

OPTICAL RESULTS (SIMULATED):



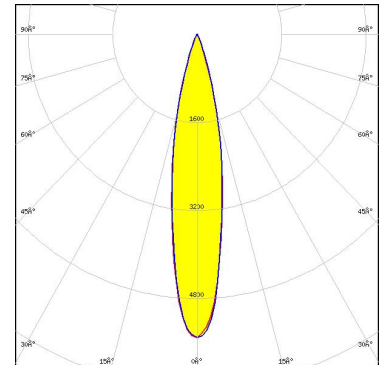
LED NVSW219F-V2
FWHM / FWTM 16.0° / 32.0°
Efficiency 91 %
Peak intensity 8.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



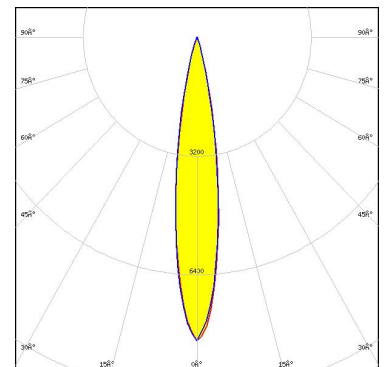
LED NVSW519A
FWHM / FWTM 20.0° / 39.0°
Efficiency 86 %
Peak intensity 5.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED NVSxx19B/NVSxx19C
FWHM / FWTM 16.0° / 31.0°
Efficiency 86 %
Peak intensity 8.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

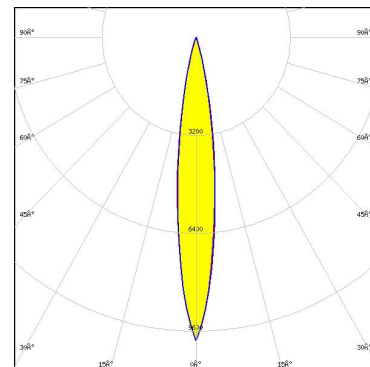


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

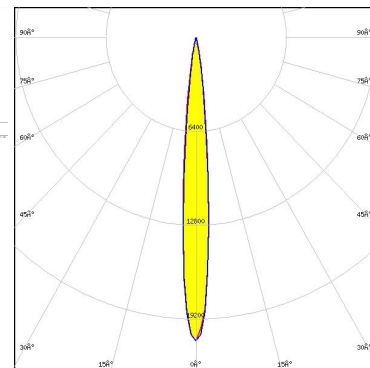
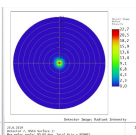
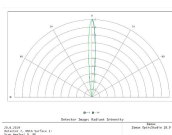
LED OSLON Square CSSRM2/CSSRM3
FWHM / FWTM 14.0° / 30.0°
Efficiency 90 %
Peak intensity 9.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

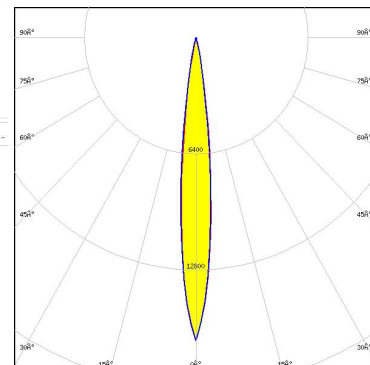
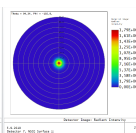
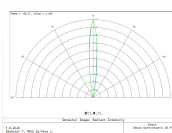
LED SFH 4715AS
FWHM / FWTM 10.0° / 20.0°
Efficiency 89 %
LEDs/each optic 1
Light colour/type IR
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED SFH 4716AS
FWHM / FWTM 12.0° / 22.0°
Efficiency 88 %
LEDs/each optic 1
Light colour/type IR
Required components:

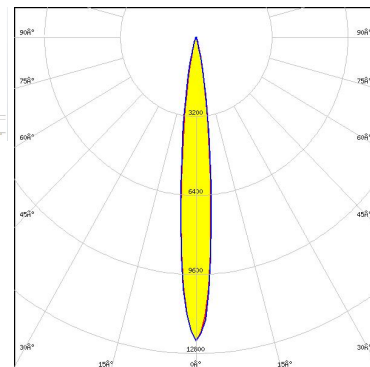
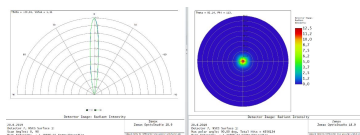


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

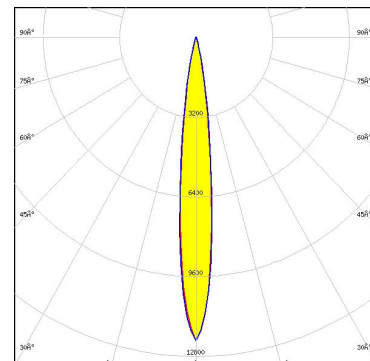
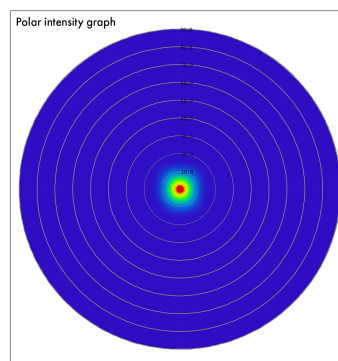
LED SFH 4717AS
FWHM / FWTM 12.0° / 25.0°
Efficiency 85 %
LEDs/each optic 1
Light colour/type IR
Required components:



Light distribution files

OSRAM
Opto Semiconductors

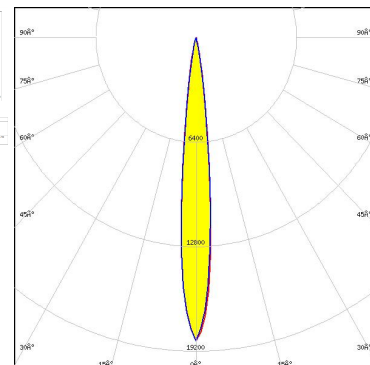
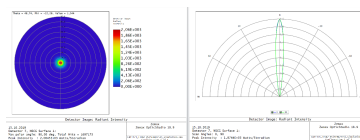
LED SFH 4725AS
FWHM / FWTM 10.0° / 20.0°
Efficiency 89 %
LEDs/each optic 1
Light colour/type IR
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED SFH 4725S
FWHM / FWTM 12.0° / 20.0°
Efficiency 89 %
LEDs/each optic 1
Light colour/type IR
Required components:

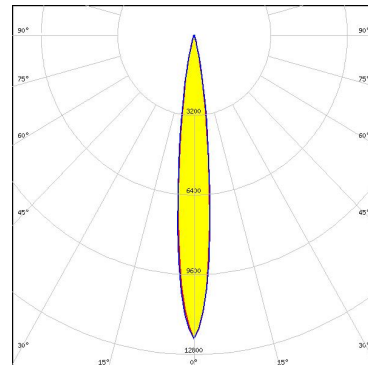
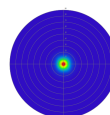
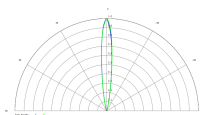


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

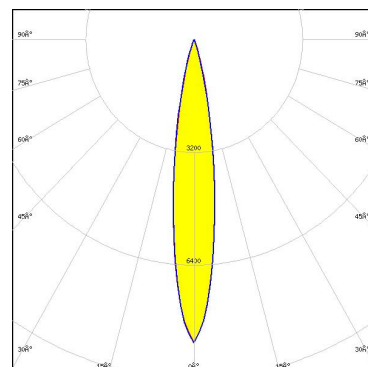
LED SFH 4727AS
FWHM / FWTM 13.0° / 25.0°
Efficiency 85 %
LEDs/each optic 1
Light colour/type IR
Required components:



Light distribution files

SAMSUNG

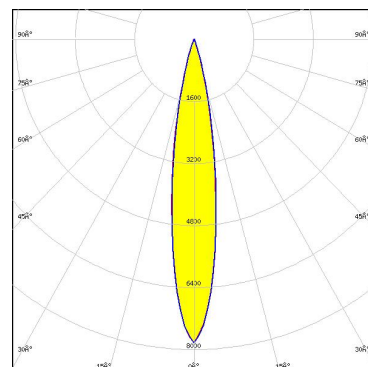
LED LH351B
FWHM / FWTM 16.0° / 32.0°
Efficiency 90 %
Peak intensity 8.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

SAMSUNG

LED LH351C
FWHM / FWTM 18.0° / 33.0°
Efficiency 92 %
Peak intensity 7.8 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.

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