

HB-2X2MX-8-W

~50° wide beam. New revision.

SPECIFICATION:

Dimensions	90.0 x 90.0
Height	16.9 mm
Fastening	screw
Ingress protection classes	IP67
ROHS compliant	yes ⓘ

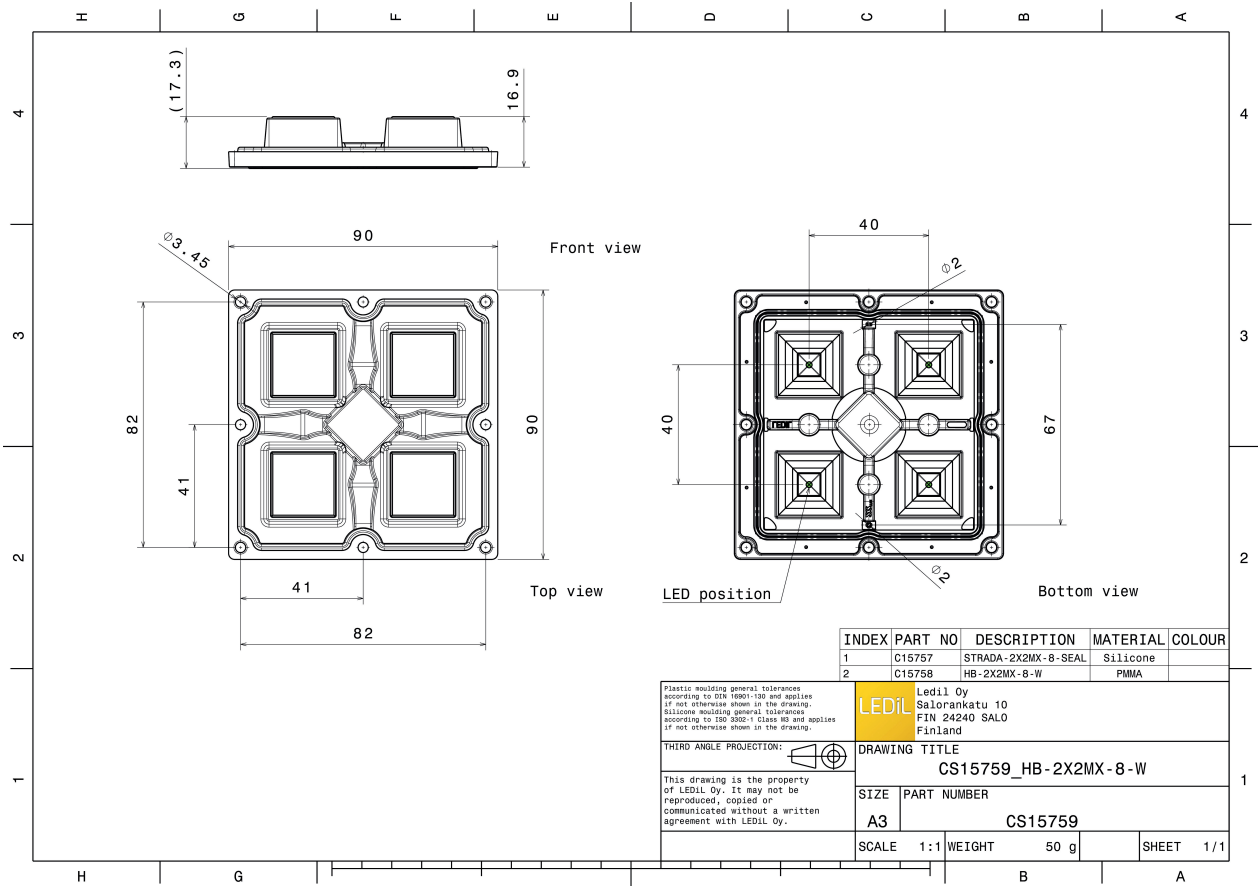


MATERIALS:

Component	Type	Material	Colour	Finish	Length (mm)
HB-2X2MX-8-W	Multi-lens	PMMA	clear		
STRADA-2X2MX-8-SEAL	Seal	Silicone	clear		

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CS15759_HB-2X2MX-8-W	Multi-lens	156	52	52	8.8
» Box size: 476 x 273 x 292 mm					

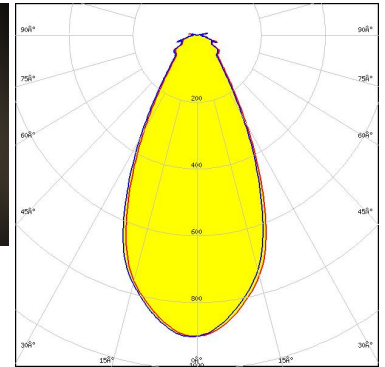
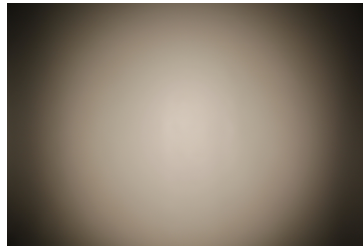


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):



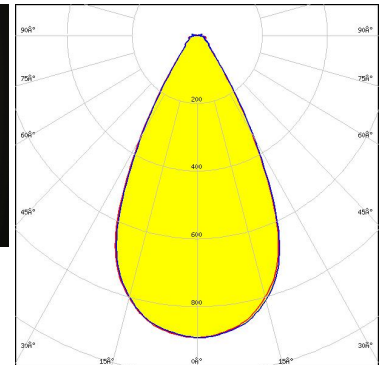
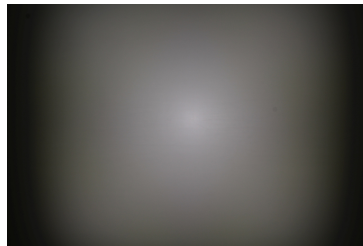
LED CXA/B 15xx
FWHM / FWTM 51.0° / 90.0°
Efficiency 90 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
 Bender Wirth: 441 Typ 2x2MX HV



Light distribution files



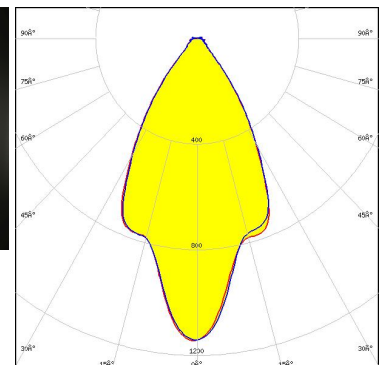
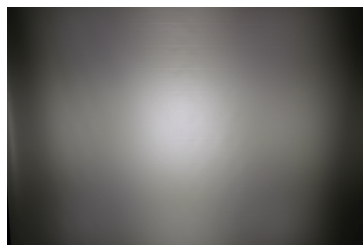
LED XHP50.2
FWHM / FWTM 55.0° / 82.0°
Efficiency 94 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED XT-E HE
FWHM / FWTM 56.0° / 87.0°
Efficiency 94 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

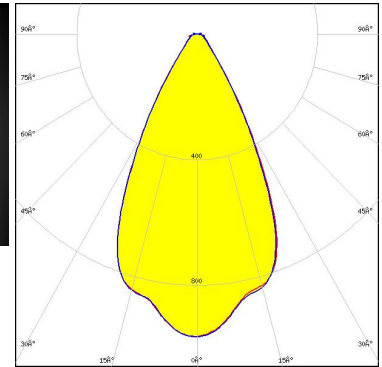


Light distribution files

OPTICAL RESULTS (MEASURED):



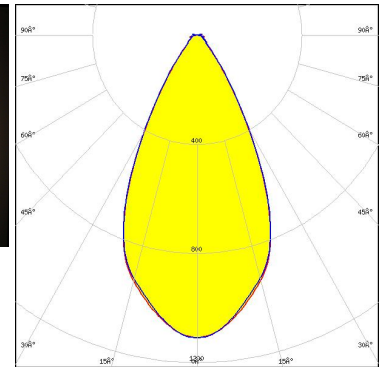
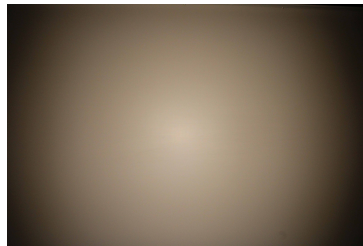
LED LUXEON M/MX
 FWHM / FWTM 54.0° / 82.0°
 Efficiency 94 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



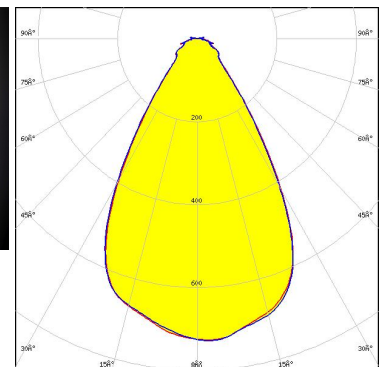
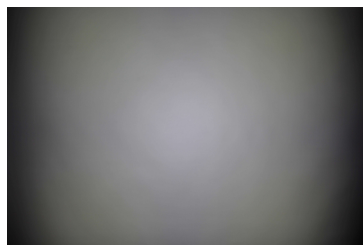
LED LUXEON XR-7070 (L224-xxxx004MLU010)
 FWHM / FWTM 53.0° / 82.0°
 Efficiency 96 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED NV9W149AM
 FWHM / FWTM 63.0° / 97.0°
 Efficiency 94 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

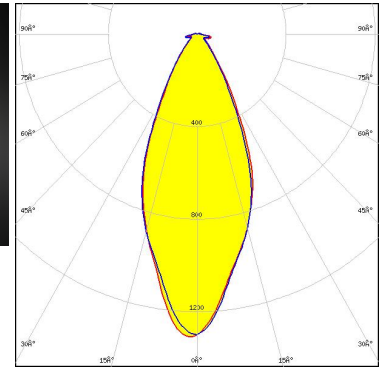
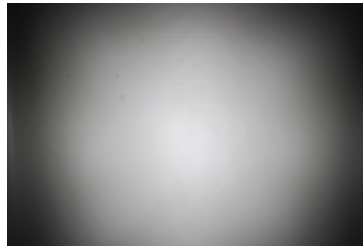


Light distribution files

OPTICAL RESULTS (MEASURED):

SAMSUNG

LED HiLOM SC16 (LH181B)
 FWHM / FWTM 44.0° / 78.0°
 Efficiency 92 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

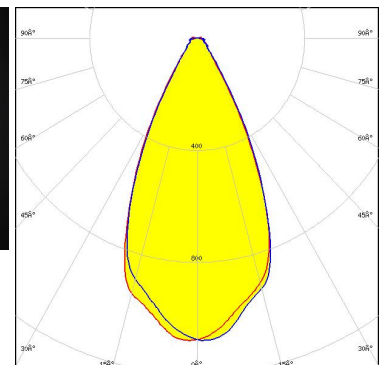
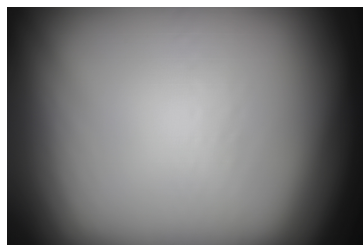
SCIOLUX

LED PAL-LK-4950-740-48
 FWHM / FWTM 55.0 + 55.5° / 82.0 + 82.5°
 Efficiency 99 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

Light distribution files

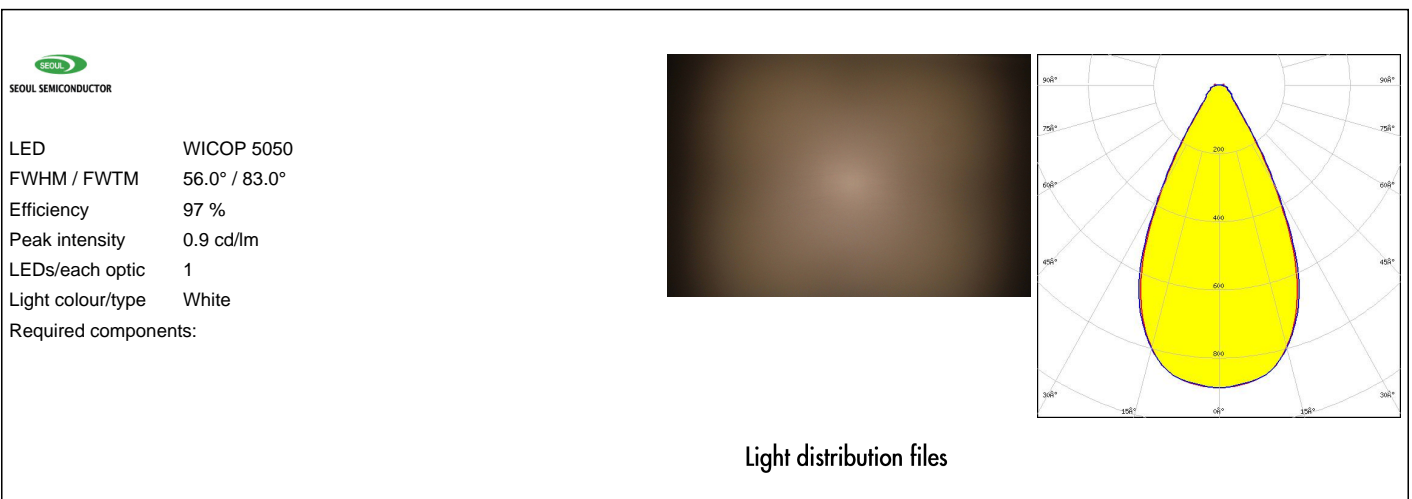
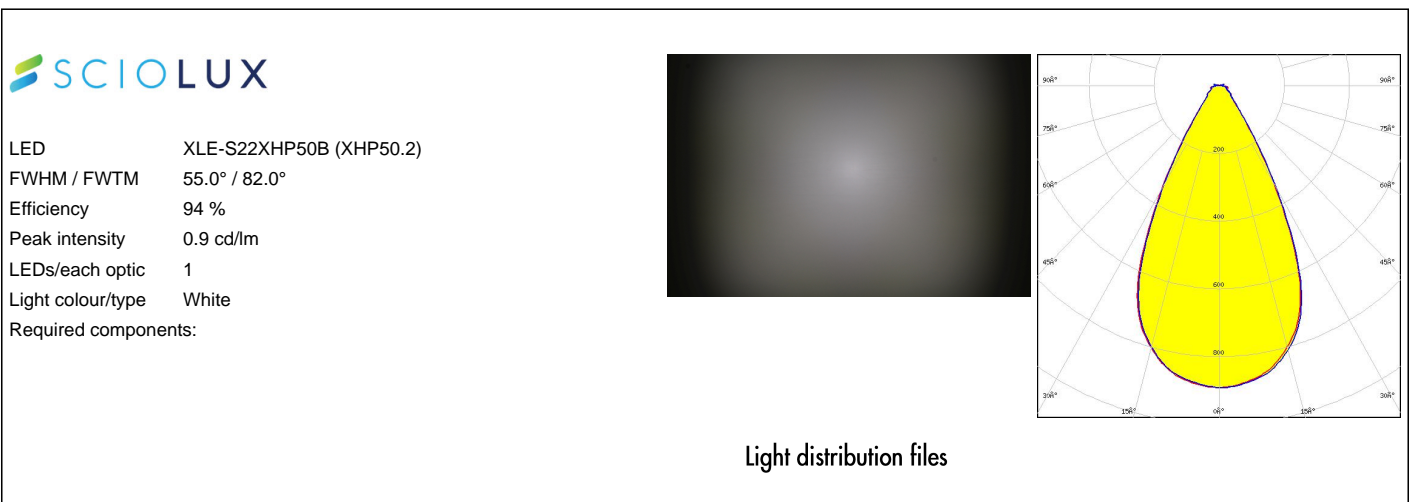
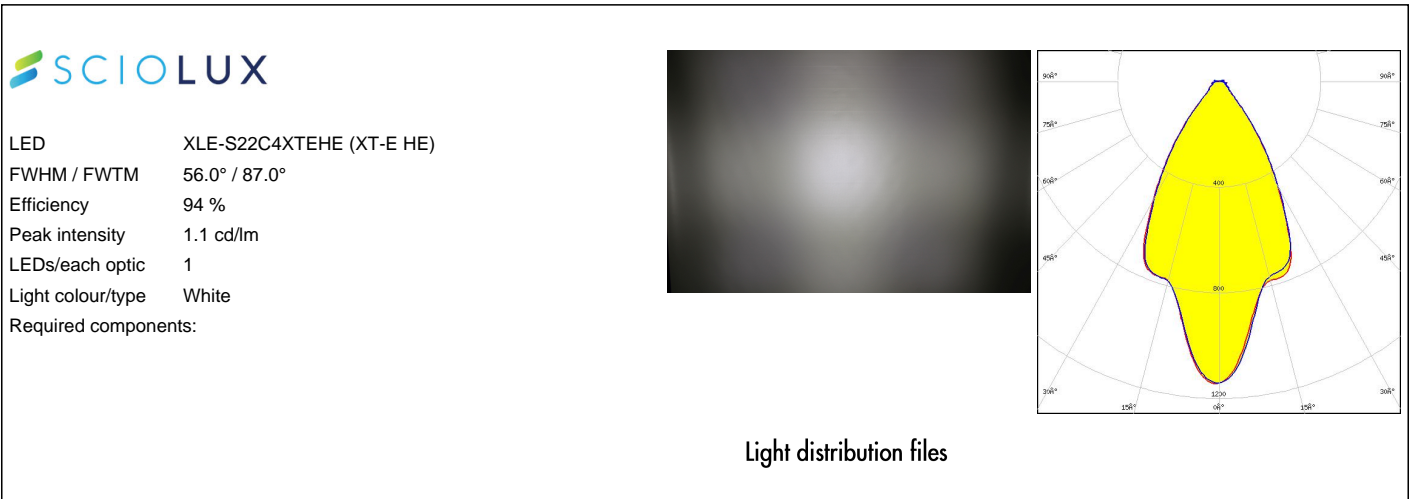
SCIOLUX

LED XLE-S22C4XD16 (XD16)
 FWHM / FWTM 50.0° / 78.0°
 Efficiency 94 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 4
 Light colour/type White
 Required components:




Light distribution files

OPTICAL RESULTS (MEASURED):



OPTICAL RESULTS (MEASURED):

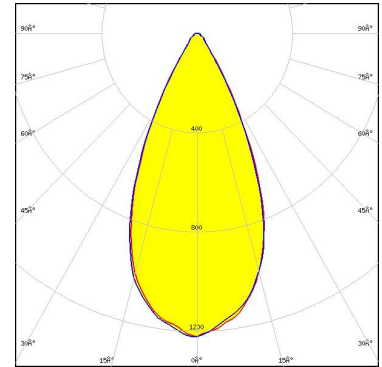
 SEOL SEMICONDUCTOR		
LED	Z8Y22	
FWHM / FWTM	50.0° / 81.0°	
Efficiency	94 %	
Peak intensity	1.1 cd/lm	
LEDs/each optic	4	
Light colour/type	White	
Required components:		

Light distribution files

OPTICAL RESULTS (SIMULATED):



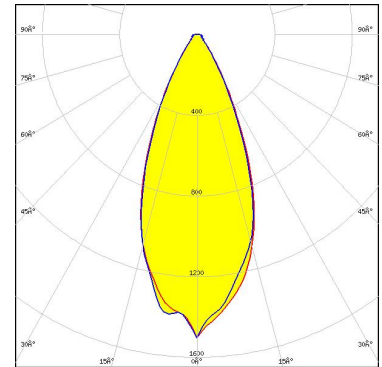
LED Bridgelux SMD 5050
FWHM / FWTM 48.0° / 73.0°
Efficiency 94 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

CITIZEN

LED CLU700/701/702/703
FWHM / FWTM 43.0° / 73.0°
Efficiency 88 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

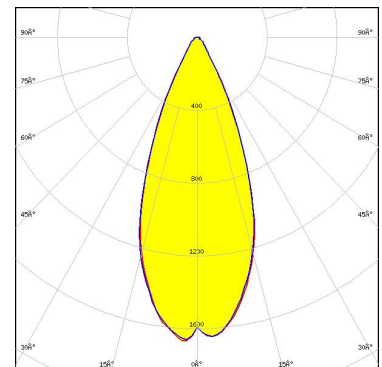


Bender Wirth: 434 Typ 2x2MX HV

Light distribution files



LED CMA1303
FWHM / FWTM 42.0° / 66.0°
Efficiency 93 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



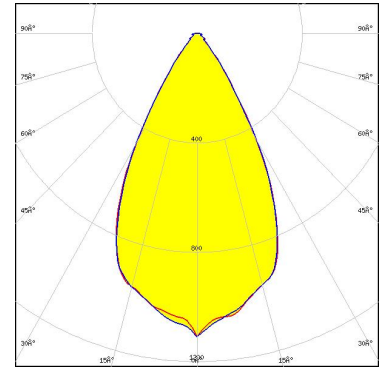
Bender Wirth: 448 Typ 2x2MX HV

Light distribution files

OPTICAL RESULTS (SIMULATED):



LED J Series 7070B K Class
FWHM / FWTM 56.0° / 80.0°
Efficiency 94 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



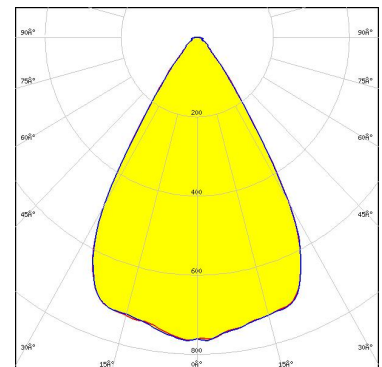
LED XHP70.2
FWHM / FWTM 62.0° / 90.0°
Efficiency 85 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Protective plate, glass

Light distribution files



LED XHP70.3 HD
FWHM / FWTM 64.0° / 86.0°
Efficiency 93 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

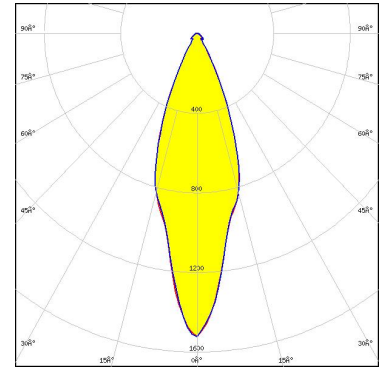


Light distribution files

OPTICAL RESULTS (SIMULATED):



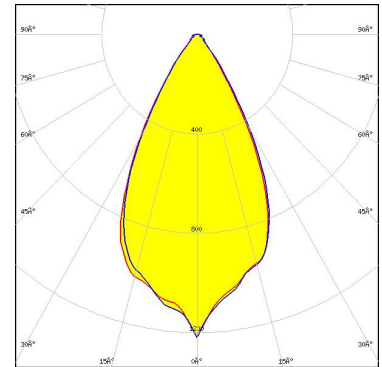
LED XP-E2
FWHM / FWTM 34.0° / 58.0°
Efficiency 94 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



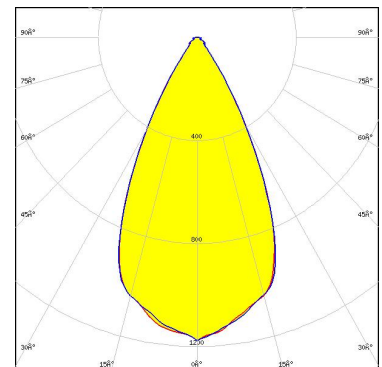
LED LUXEON 7070
FWHM / FWTM 54.0° / 80.0°
Efficiency 94 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED MP 7070
FWHM / FWTM 52.0° / 76.0°
Efficiency 94 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

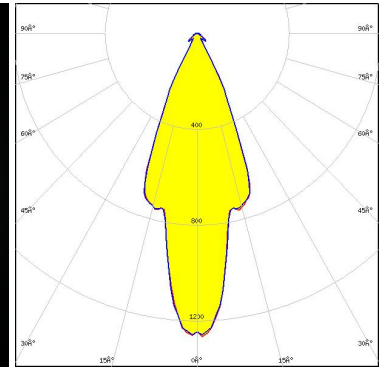
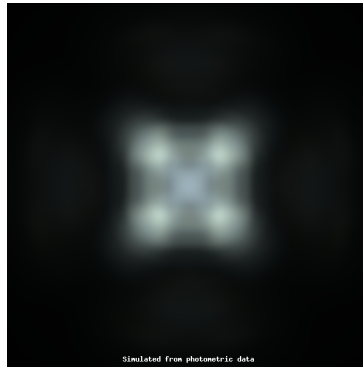


Light distribution files

OPTICAL RESULTS (SIMULATED):



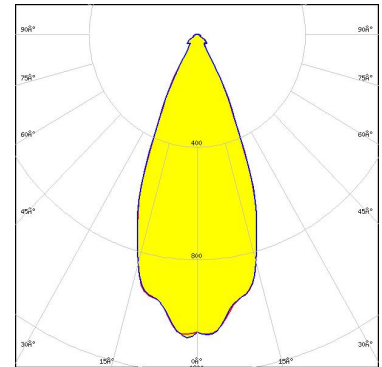
LED SFT-40 Gen2
 FWHM / FWTM 42.0° / 58.0°
 Efficiency 95 %
 Peak intensity 2.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



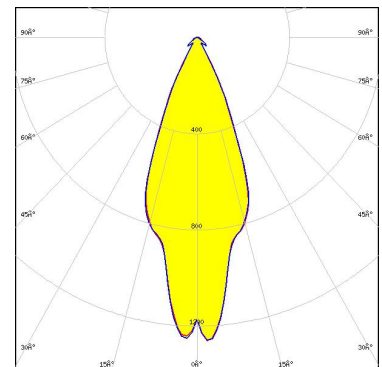
LED SFT-40-WCS
 FWHM / FWTM 44.0° / 62.0°
 Efficiency 95 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

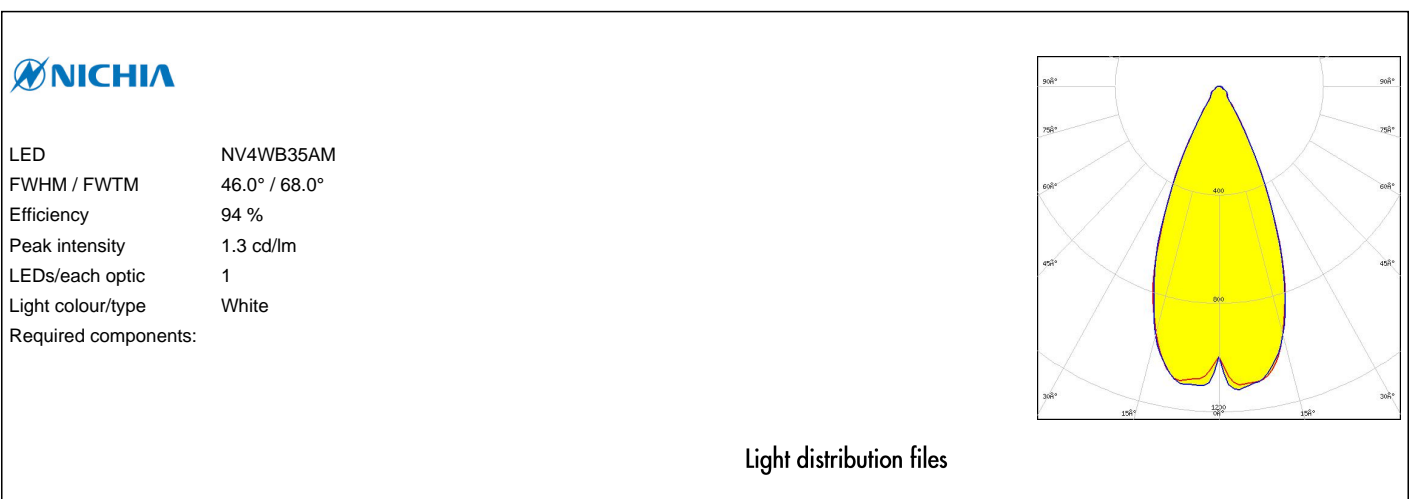
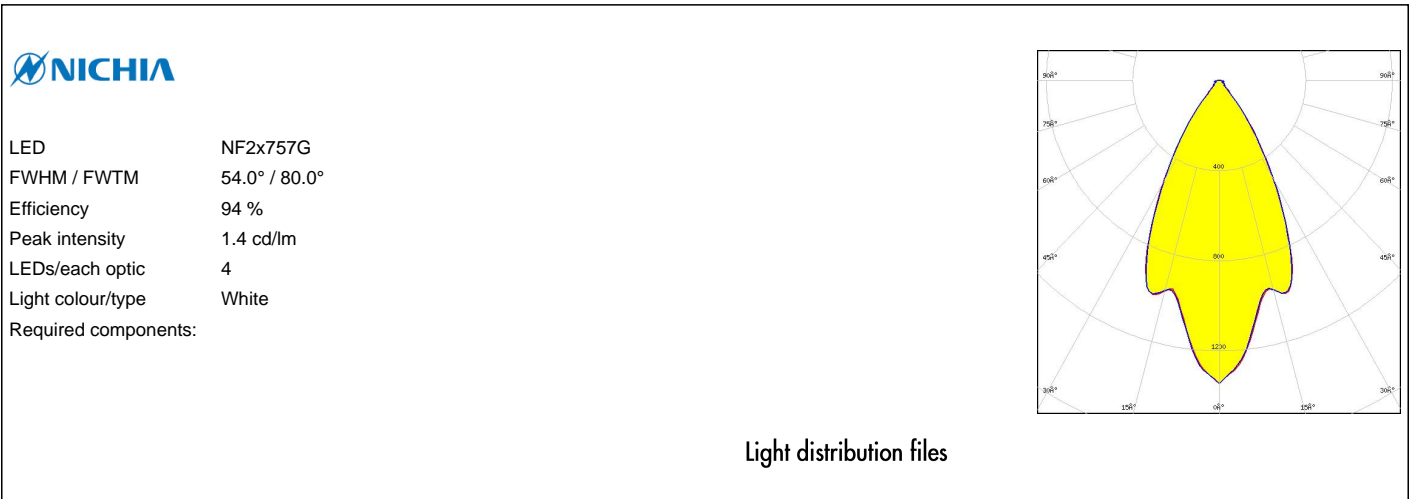


LED SFT-40-WCS
 FWHM / FWTM 40.0° / 58.0°
 Efficiency 95 %
 Peak intensity 1.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

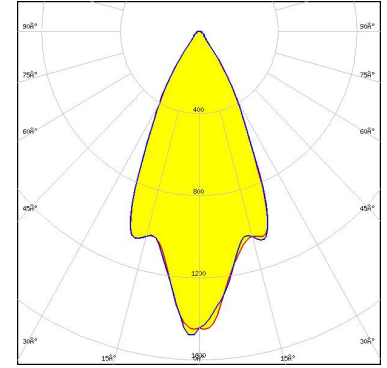
OPTICAL RESULTS (SIMULATED):



OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

LED	OSCONIQ C 2424
FWHM / FWTM	48.0° / 74.0°
Efficiency	94 %
Peak intensity	1.5 cd/lm
LEDs/each optic	4
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.

Due to use of high power COB's with this product, special attention to proper thermal design is highly recommended. LEDiL has no liability for direct, indirect or consecutive damages arising from the LEDiL products being used outside of the recommended temperature range.

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.

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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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