

HB-2X2MX-8-WWW

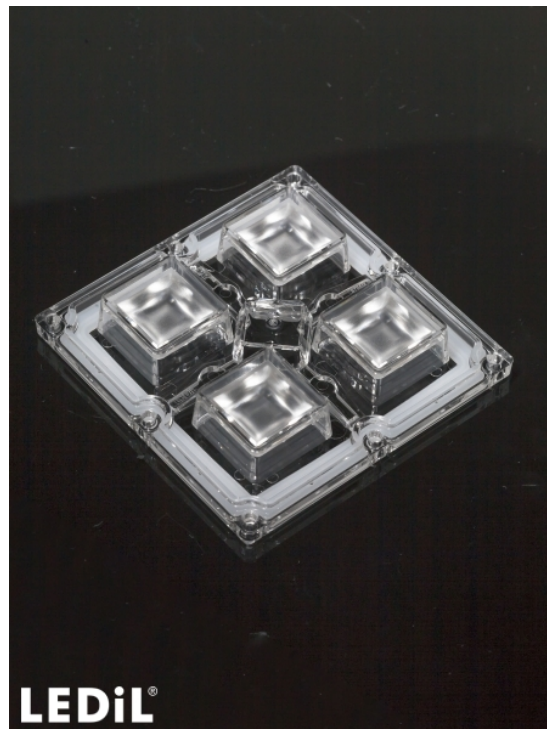
~65° wide beam. New revision.

SPECIFICATION:

Dimensions	90.0 x 90.0 mm
Height	16.4 mm
Fastening	screw
Ingress protection classes	IP67
ROHS compliant	yes ⓘ

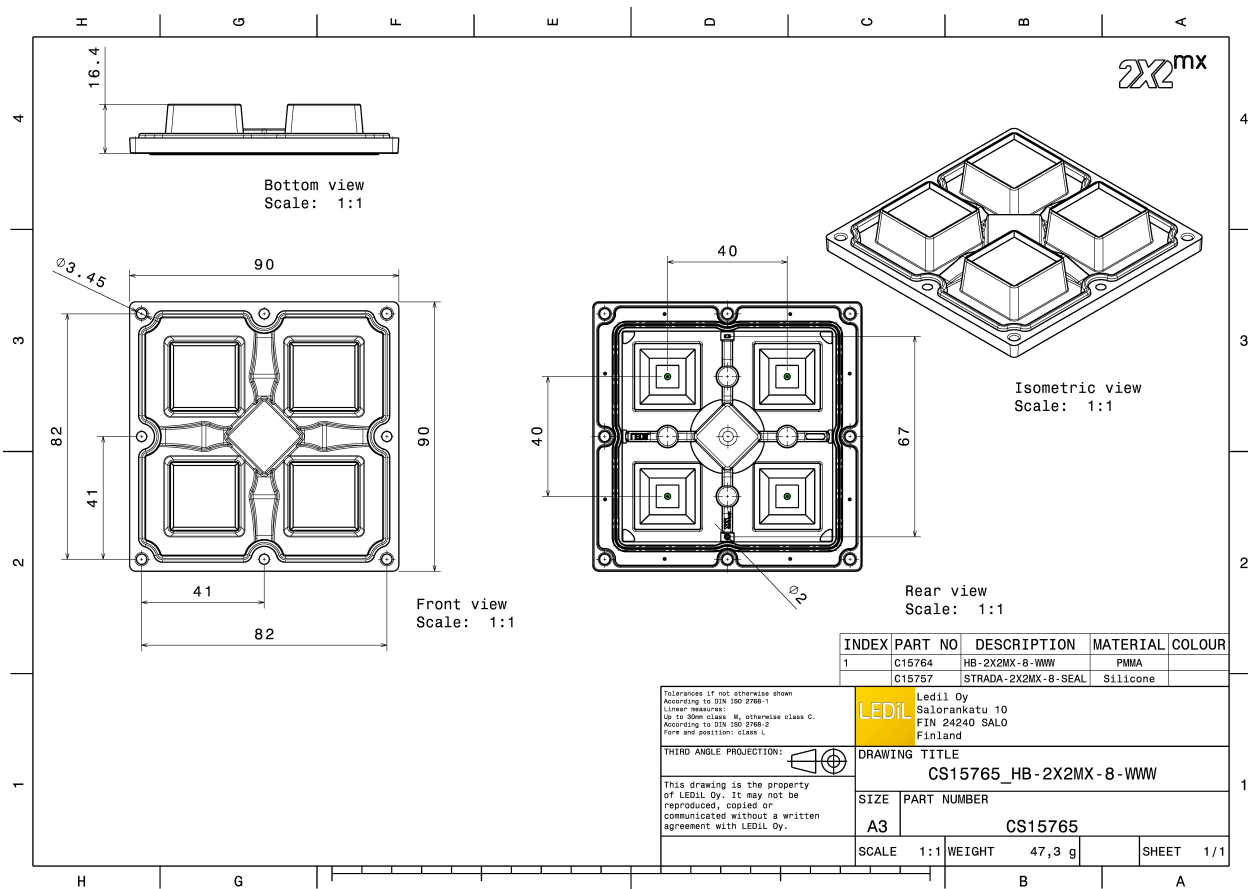
MATERIALS:

Component	Type	Material	Colour	Finish
HB-2X2MX-8-WWW	Multi-lens	PMMA	clear	
STRADA-2X2MX-8-SEAL	Seal	Silicone	clear	



ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CS15765_HB-2X2MX-8-WWW	Multi-lens	156	52	52	8.4
» Box size: 480 x 280 x 300 mm					

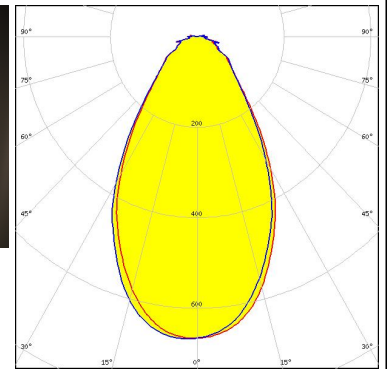
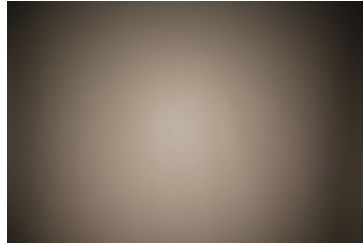


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):

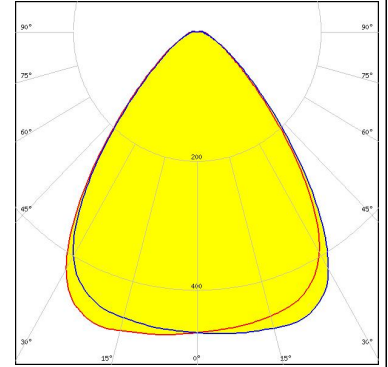
CREE LED

LED CXA/B 15xx
FWHM / FWTM 62.0° / 123.0°
Efficiency 92 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
Bender Wirth: 441 Typ 2x2MX HV



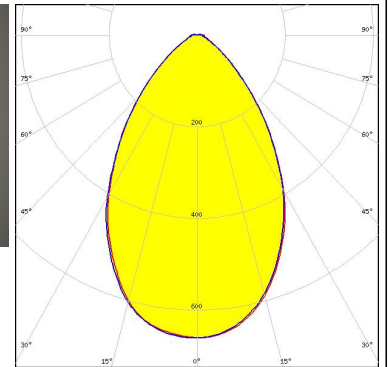
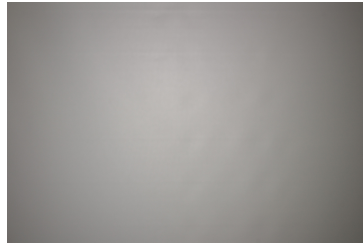
CREE LED

LED XHP50.2
FWHM / FWTM 80.0° / 121.0°
Efficiency 94 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



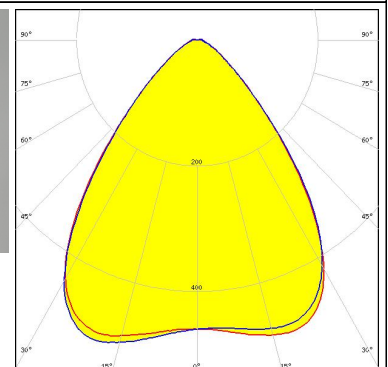
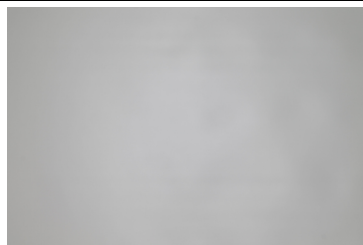
CREE LED

LED XT-E HE
FWHM / FWTM 68.0° / 114.0°
Efficiency 94 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LUMILEDS

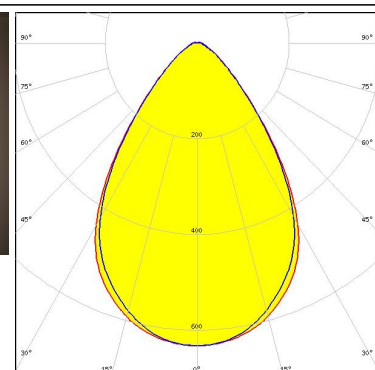
LED LUXEON M/MX
FWHM / FWTM 82.0° / 119.0°
Efficiency 94 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



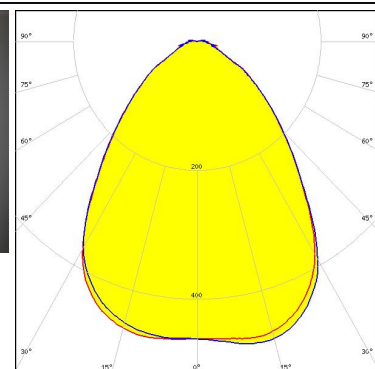
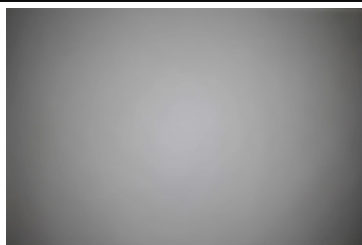
OPTICAL RESULTS (MEASURED):



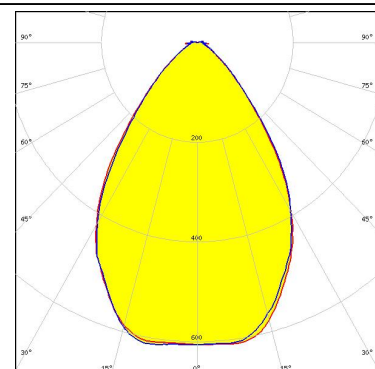
LED LUXEON XR-7070 (L224-xxxx004MLU010)
 FWHM / FWTM 72.0° / 110.0°
 Efficiency 95 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



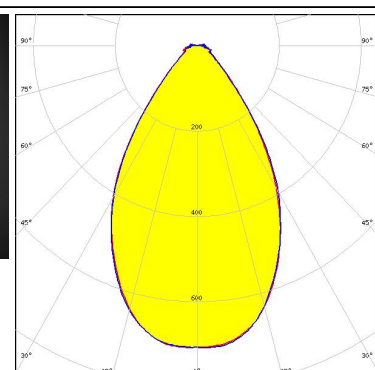
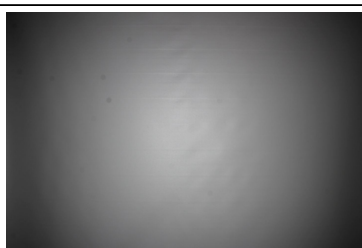
LED NV9W149AM
 FWHM / FWTM 81.0° / 130.0°
 Efficiency 94 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED PrevaLED Brick HP 2x2MX
 FWHM / FWTM 71.0° / 111.0°
 Efficiency 93 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 4
 Light colour White
 Required components:



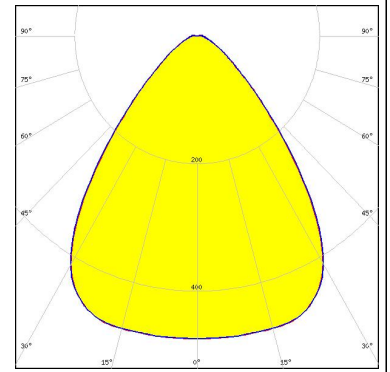
LED HiLOM SC16 (LH181B)
 FWHM / FWTM 65.0° / 103.0°
 Efficiency 94 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (MEASURED):

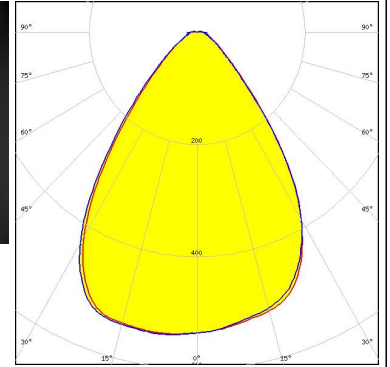
SCIOLUX

LED PAL-LK-4950-740-48
FWHM / FWTM 80.0 + 80.5° / 121.0°
Efficiency 95 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



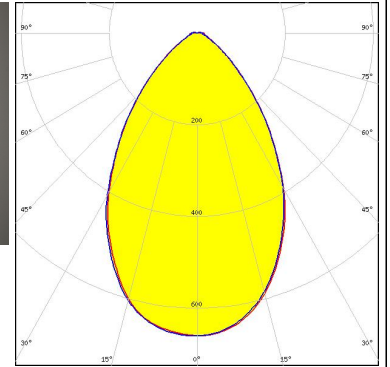
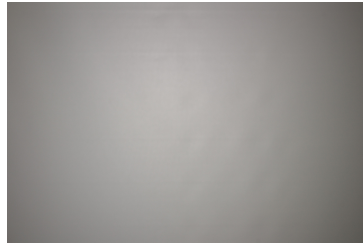
SCIOLUX

LED XLE-S22C4XD16 (XD16)
FWHM / FWTM 74.0° / 112.0°
Efficiency 94 %
Peak intensity 0.5 cd/lm
LEDs/each optic 4
Light colour White
Required components:



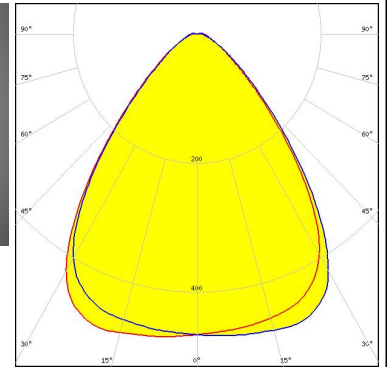
SCIOLUX

LED XLE-S22C4XTEHE (XT-E HE)
FWHM / FWTM 68.0° / 114.0°
Efficiency 94 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:

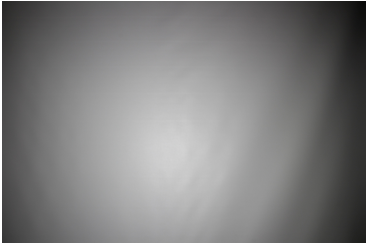
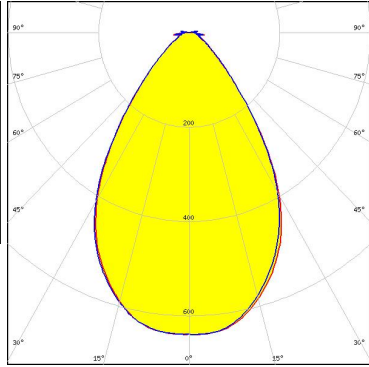


SCIOLUX

LED XLE-S22XHP50B (XHP50.2)
FWHM / FWTM 80.0° / 121.0°
Efficiency 94 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



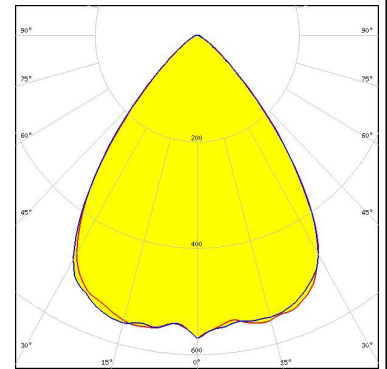
OPTICAL RESULTS (MEASURED):

 SEOUL SEMICONDUCTOR LED WICOP 5050 FWHM / FWTM 80.0° / 123.0° Efficiency 96 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White Required components:	
 SEOUL SEMICONDUCTOR LED Z8Y22 FWHM / FWTM 68.0° / 108.0° Efficiency 94 % Peak intensity 0.6 cd/lm LEDs/each optic 4 Light colour White Required components:	 

OPTICAL RESULTS (SIMULATED):

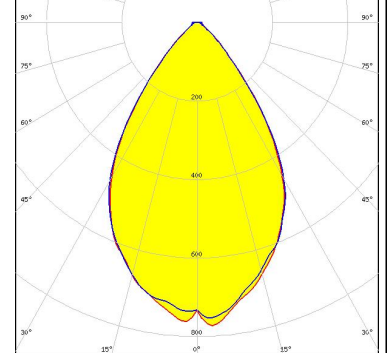


LED Bridgelux SMD 5050
 FWHM / FWTM 78.0° / 105.0°
 Efficiency 94 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

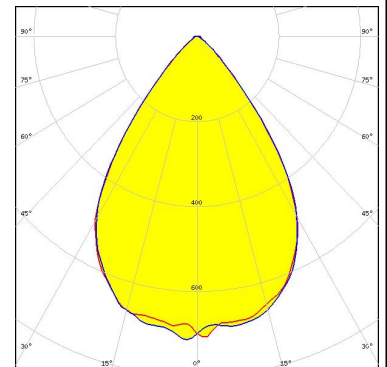


CITIZEN

LED CLU700/701/702/703
 FWHM / FWTM 66.0° / 98.0°
 Efficiency 92 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 434 Typ 2x2MX HV

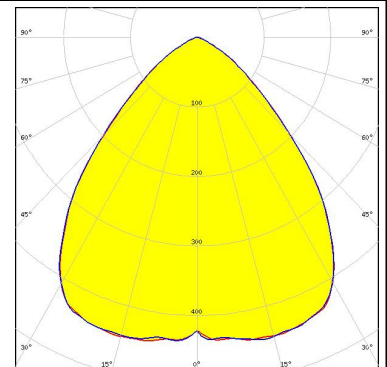


LED CMA1303
 FWHM / FWTM 71.0° / 96.0°
 Efficiency 96 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 448 Typ 2x2MX HV



LED XHP70.2
 FWHM / FWTM 86.0° / 122.0°
 Efficiency 89 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

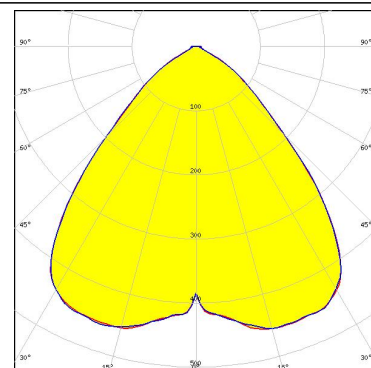
Protective plate, glass



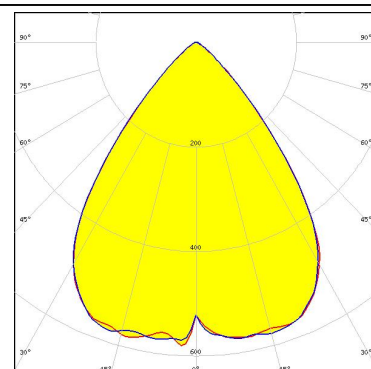
OPTICAL RESULTS (SIMULATED):



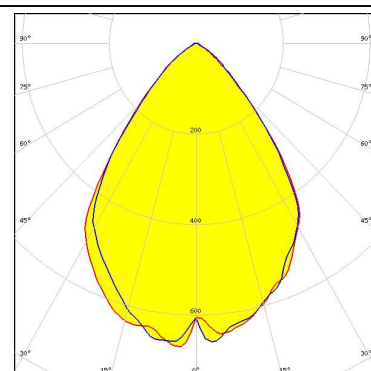
LED XHP70.3 HD
FWHM / FWTM 86.0° / 120.0°
Efficiency 95 %
Peak intensity 0.5 cd/Im
LEDs/each optic 1
Light colour White
Required components:



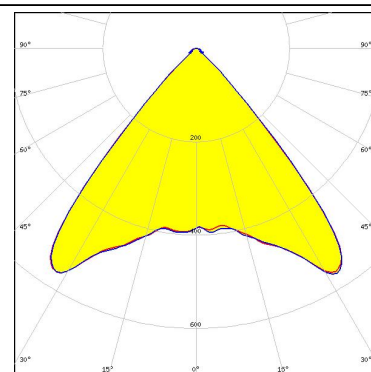
LED LUXEON 5050 Round LES
FWHM / FWTM 78.0° / 102.0°
Efficiency 97 %
Peak intensity 0.6 cd/Im
LEDs/each optic 1
Light colour White
Required components:



LED LUXEON 7070
FWHM / FWTM 75.0° / 108.0°
Efficiency 96 %
Peak intensity 0.7 cd/Im
LEDs/each optic 1
Light colour White
Required components:



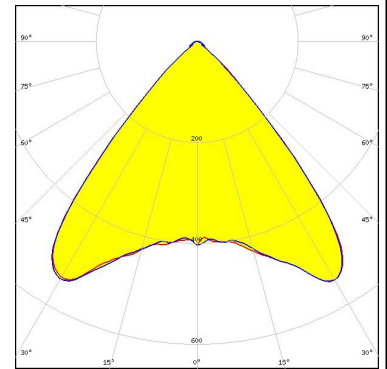
LED SFT-40-WCS
FWHM / FWTM 82.0° / 94.0°
Efficiency 97 %
Peak intensity 0.6 cd/Im
LEDs/each optic 1
Light colour White
Required components:



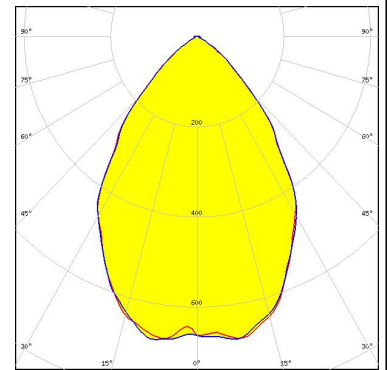
OPTICAL RESULTS (SIMULATED):



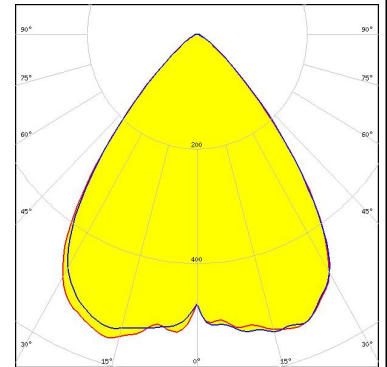
LED SFT-70X-WCS
 FWHM / FWTM 82.0° / 98.0°
 Efficiency 97 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



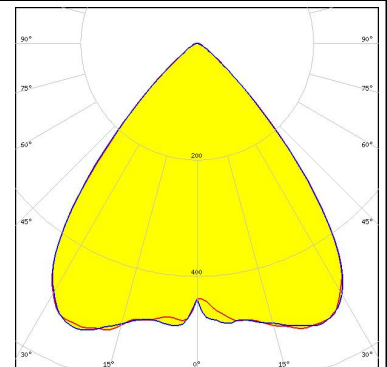
LED NF2x757G
 FWHM / FWTM 72.0° / 108.0°
 Efficiency 97 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 4
 Light colour White
 Required components:



LED NFMW48xA
 FWHM / FWTM 79.0° / 106.0°
 Efficiency 94 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED NV4WB35AM
 FWHM / FWTM 80.0° / 102.0°
 Efficiency 96 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

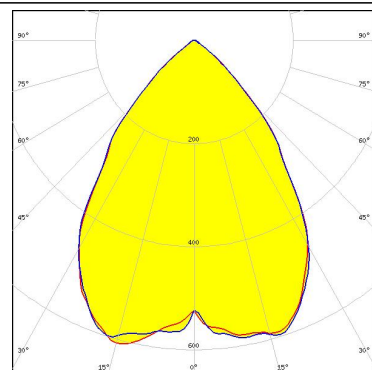


OPTICAL RESULTS (SIMULATED):

OSRAM

Opto Semiconductors

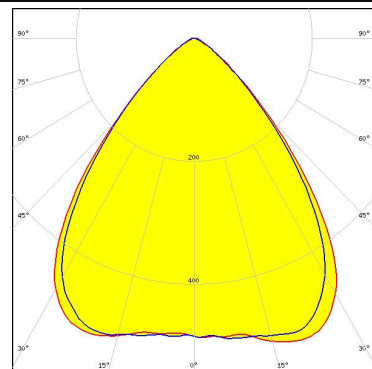
LED OSCONIQ C 2424
FWHM / FWTM 74.0 + 75.0° / 104.0°
Efficiency 97 %
Peak intensity 0.6 cd/lm
LEDs/each optic 4
Light colour White
Required components:



OSRAM

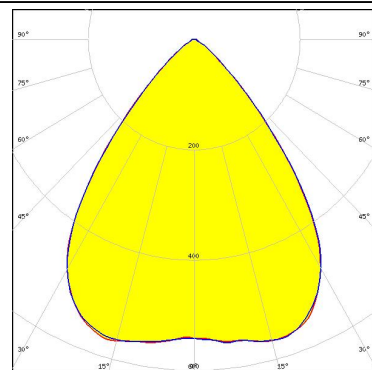
Opto Semiconductors

LED OSCONIQ P 7070
FWHM / FWTM 82.0° / 112.0°
Efficiency 96 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



SAMSUNG

LED LH502C
FWHM / FWTM 78.0° / 104.0°
Efficiency 96 %
Peak intensity 0.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:



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.

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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