

HB-2X2-5050-S

~25° spot beam for industrial applications

SPECIFICATION:

Dimensions	50.0 x 50.0
Height	10.4 mm
Fastening	screw
ROHS compliant	yes ⓘ

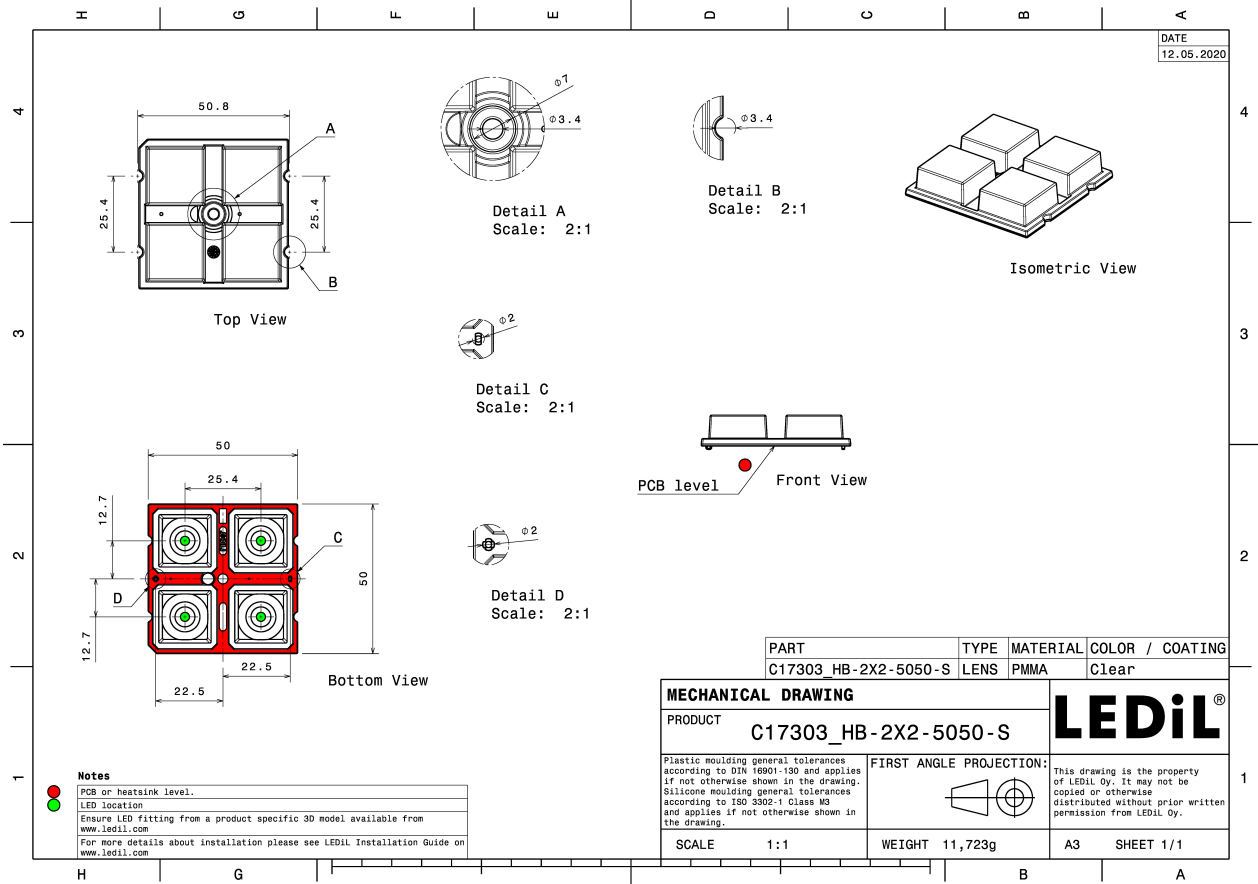
MATERIALS:

Component	Type	Material	Colour	Finish	Length (mm)
HB-2X2-5050-S	Multi-lens	PMMA	clear		



ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C17303_HB-2X2-5050-S » Box size: 480 x 280 x 300 mm	800	160	160	10.2

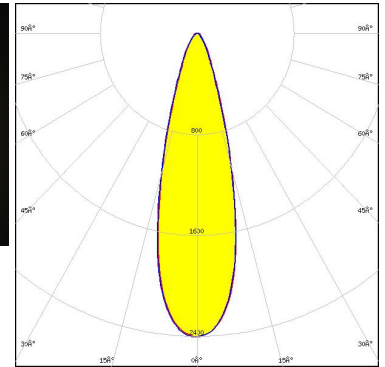
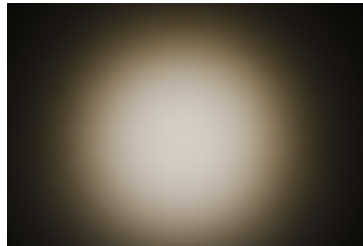


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):



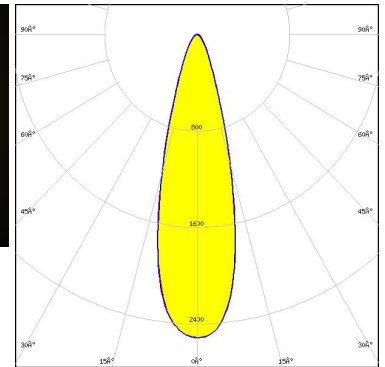
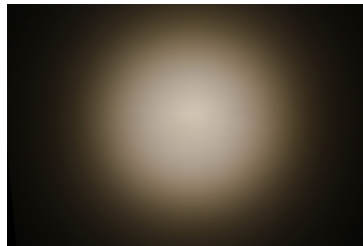
LED LUXEON 5050 HE Plus
FWHM / FWTM 29.0° / 56.0°
Efficiency 92 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



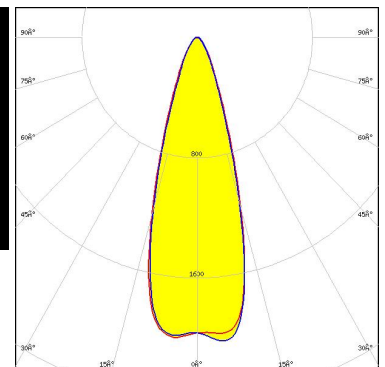
LED LUXEON XR-5050 SQR (L213-xxxx016MRH001)
FWHM / FWTM 28.0° / 55.0°
Efficiency 94 %
Peak intensity 2.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED RecLED 173x50mm 2900lm 740 2x6 5050 Opt G1
FWHM / FWTM 33.0° / 60.0°
Efficiency 94 %
Peak intensity 2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

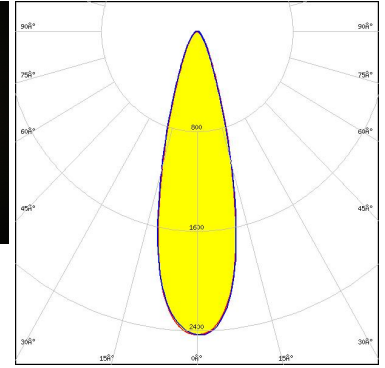


Light distribution files

OPTICAL RESULTS (MEASURED):

PHILIPS

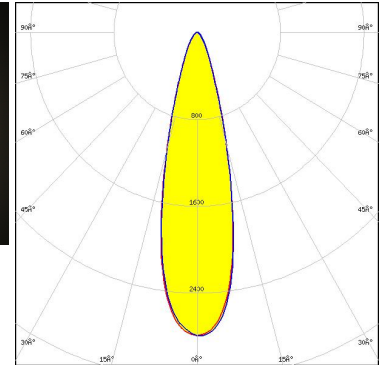
LED Fortimo FastFlex LED 2x8 DA (U)HE
FWHM / FWTM 29.0° / 56.0°
Efficiency 95 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

TRIDONIC

LED RLE 2x8 6000lm HP HE EXC3 OTD
FWHM / FWTM 27.0° / 52.0°
Efficiency 94 %
Peak intensity 2.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

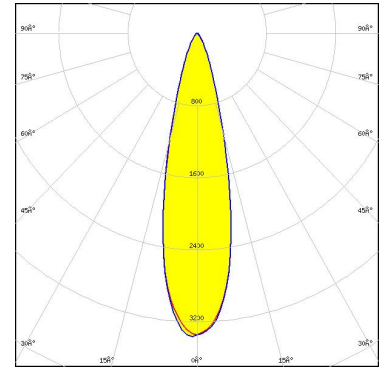


Light distribution files

OPTICAL RESULTS (SIMULATED):



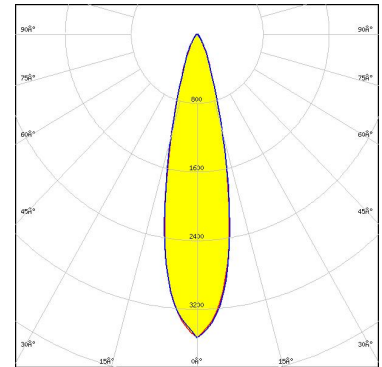
LED J Series 5050 Round LES
FWHM / FWTM 26.0° / 50.0°
Efficiency 93 %
Peak intensity 3.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



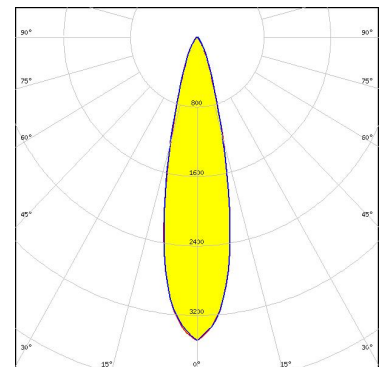
LED J Series 5050B 6V K Class
FWHM / FWTM 24.0° / 48.0°
Efficiency 92 %
Peak intensity 3.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED J Series 5050C 6V E Class
FWHM / FWTM 24.0° / 48.0°
Efficiency 92 %
Peak intensity 3.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

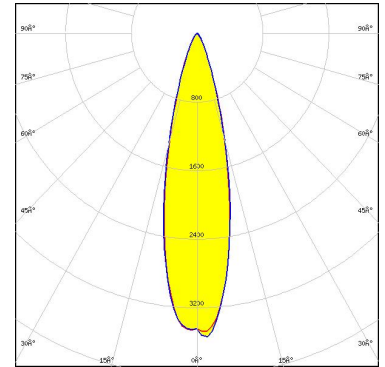


Light distribution files

OPTICAL RESULTS (SIMULATED):



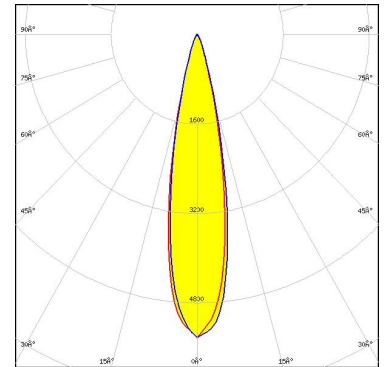
LED XM-L RGBW (XMLDCL HI)
 FWHM / FWTM 26.0° / 48.0°
 Efficiency 94 %
 Peak intensity 3.5 cd/lm
 LEDs/each optic 1
 Light colour/type RGBW
 Required components:



Light distribution files



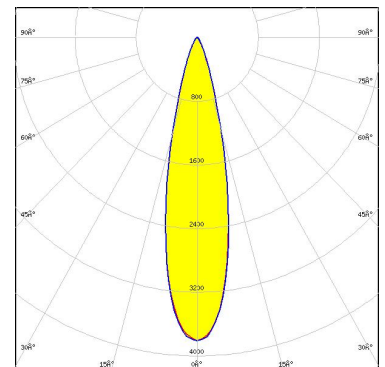
LED XP-G2
 FWHM / FWTM 21.0° / 38.0°
 Efficiency 96 %
 Peak intensity 5.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED XP-G3
 FWHM / FWTM 24.0° / 44.0°
 Efficiency 89 %
 Peak intensity 3.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Protective plate, glass

Light distribution files

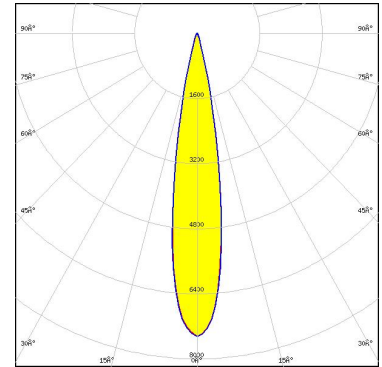
OPTICAL RESULTS (SIMULATED):



LED XP-P
 FWHM / FWTM 18.0° / 30.0°
 Efficiency 91 %
 Peak intensity 7.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

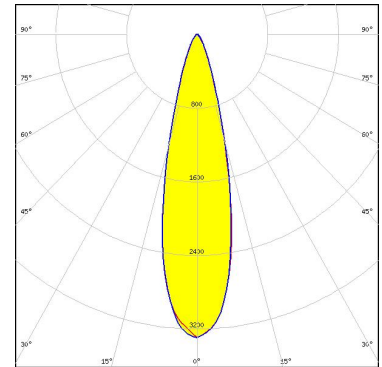
Protective plate, glass

Light distribution files



LED LUXEON 5050 HE
 FWHM / FWTM 26.0° / 48.0°
 Efficiency 94 %
 Peak intensity 3.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

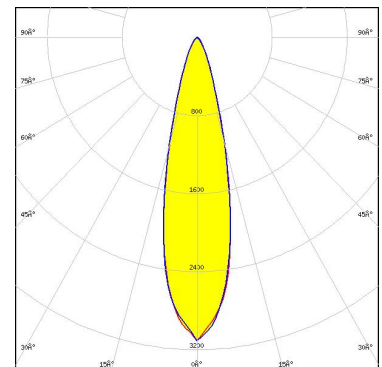
Light distribution files



LED LUXEON 5050 HE
 FWHM / FWTM 26.0° / 50.0°
 Efficiency 87 %
 Peak intensity 3.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

Protective plate, glass

Light distribution files



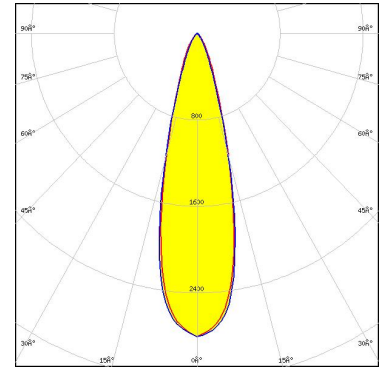
OPTICAL RESULTS (SIMULATED):



LED LUXEON 5050 Round LES
FWHM / FWTM 28.0° / 52.0°
Efficiency 83 %
Peak intensity 2.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

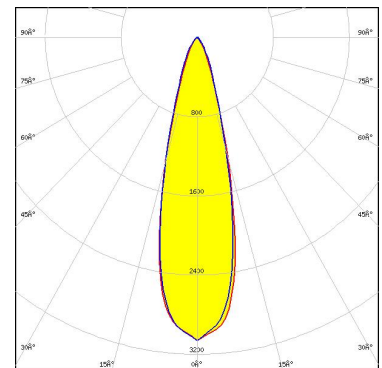
Protective plate, glass

Light distribution files



LED LUXEON 5050 Round LES
FWHM / FWTM 27.0° / 51.0°
Efficiency 90 %
Peak intensity 3.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

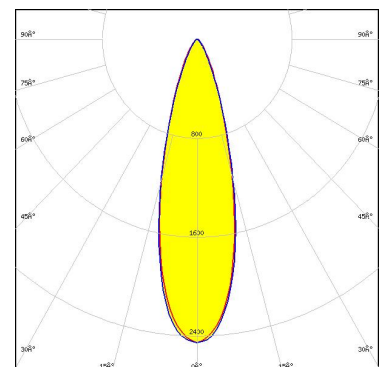
Light distribution files



LED LUXEON 5050 Square LES
FWHM / FWTM 28.0° / 57.0°
Efficiency 87 %
Peak intensity 2.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Protective plate, glass

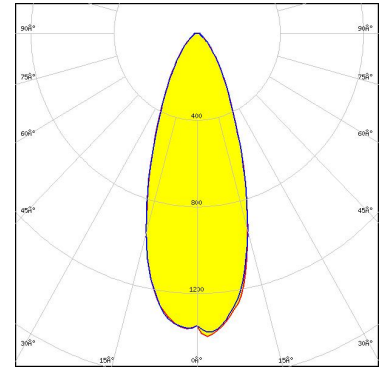
Light distribution files



OPTICAL RESULTS (SIMULATED):



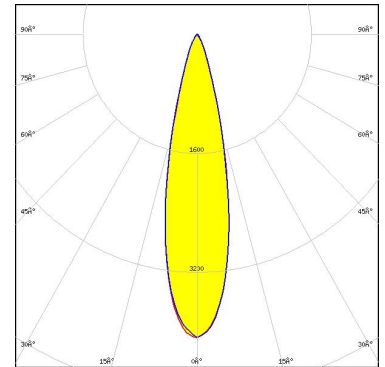
LED LUXEON 7070
FWHM / FWTM 38.0° / 79.0°
Efficiency 89 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



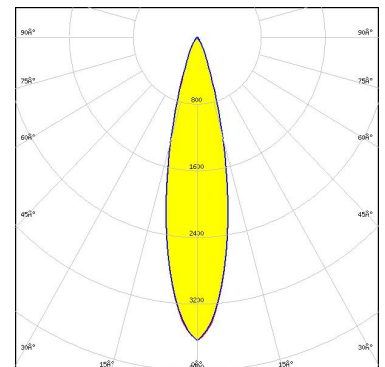
LED LUXEON HL2X
FWHM / FWTM 24.0° / 44.0°
Efficiency 95 %
Peak intensity 4.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED LUXEON HL2X-D
FWHM / FWTM 24.0° / 46.0°
Efficiency 88 %
Peak intensity 3.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



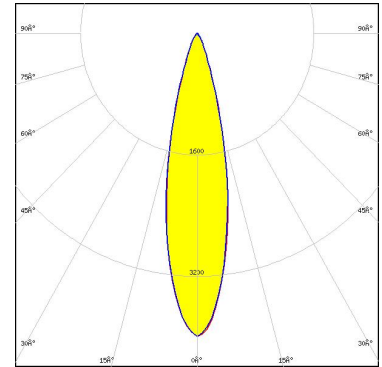
Protective plate, glass

Light distribution files

OPTICAL RESULTS (SIMULATED):



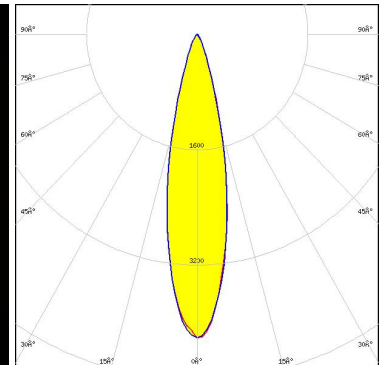
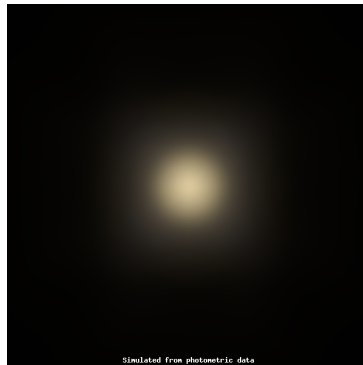
LED LUXEON HL2X-D
 FWHM / FWTM 24.0° / 46.0°
 Efficiency 96 %
 Peak intensity 4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



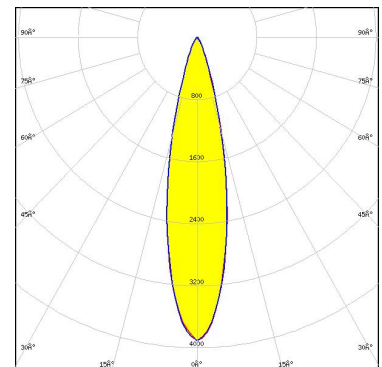
LED LUXEON HL2X-E
 FWHM / FWTM 24.0° / 44.0°
 Efficiency 96 %
 Peak intensity 4.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED LUXEON HL2X-E
 FWHM / FWTM 24.0° / 44.0°
 Efficiency 89 %
 Peak intensity 3.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



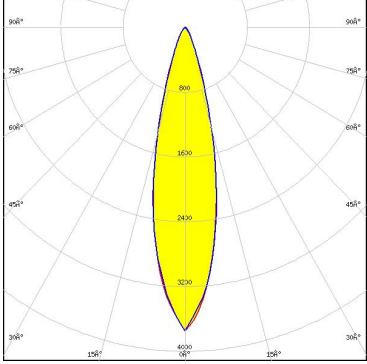
Protective plate, glass

Light distribution files

OPTICAL RESULTS (SIMULATED):

LUMILEDS

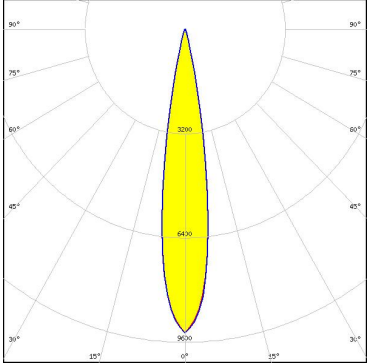
LED: LUXEON HL2X-P
 FWHM / FWTM: 24.0° / 47.0°
 Efficiency: 95 %
 Peak intensity: 3.7 cd/lm
 LEDs/each optic: 1
 Light colour/type: White
 Required components:



Light distribution files

LUMINUS

LED: SFT-12R-W-A
 FWHM / FWTM: 18.0° / 28.0°
 Efficiency: 96 %
 Peak intensity: 9.3 cd/lm
 LEDs/each optic: 1
 Light colour/type: White
 Required components:

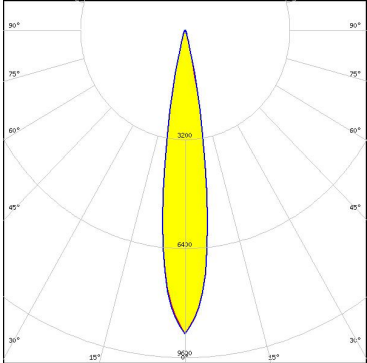


Light distribution files

LUMINUS

LED: SFT-12R-W-A
 FWHM / FWTM: 16.0° / 28.0°
 Efficiency: 91 %
 Peak intensity: 8.9 cd/lm
 LEDs/each optic: 1
 Light colour/type: White
 Required components:

Protective plate, glass

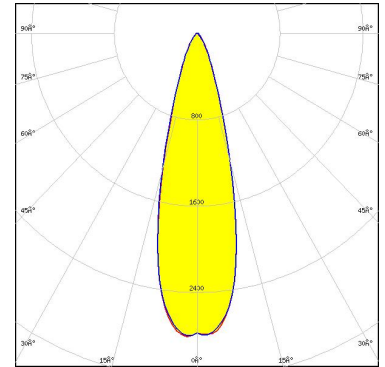


Light distribution files

OPTICAL RESULTS (SIMULATED):



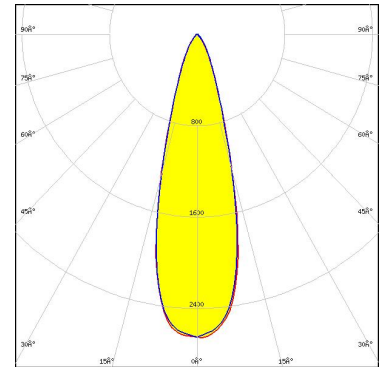
LED NFMW48xA
FWHM / FWTM 28.0° / 54.0°
Efficiency 93 %
Peak intensity 2.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



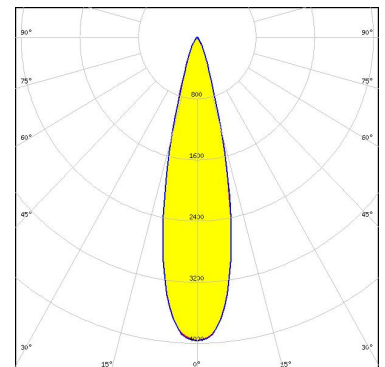
LED NFMW48xA
FWHM / FWTM 29.0° / 55.0°
Efficiency 90 %
Peak intensity 2.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED NVSW219F
FWHM / FWTM 24.0° / 44.0°
Efficiency 95 %
Peak intensity 4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

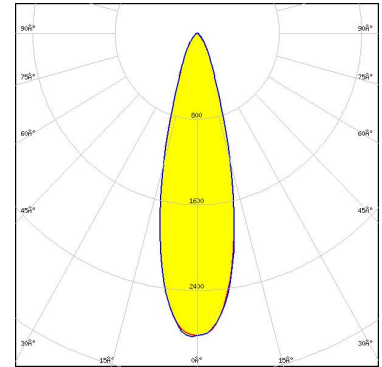


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

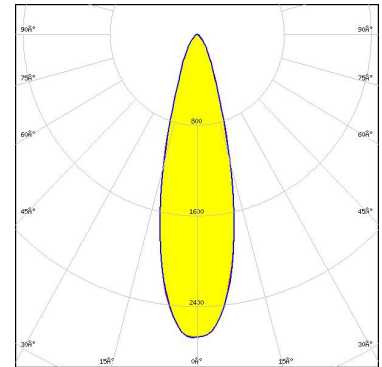
LED DURIS E 5050 (GW J9LHS1.4M)
 FWHM / FWTM 28.0° / 56.0°
 Efficiency 93 %
 Peak intensity 2.8 cd/lm
 LEDs/each optic 1
 Light colour/type RGBW
 Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED DURIS E 5050 (GW J9LHS1.4M)
 FWHM / FWTM 28.0° / 56.0°
 Efficiency 88 %
 Peak intensity 2.7 cd/lm
 LEDs/each optic 1
 Light colour/type RGBW
 Required components:

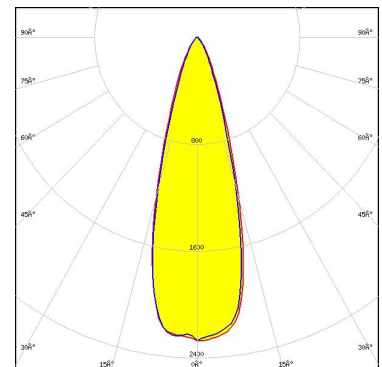


Protective plate, glass

Light distribution files

OSRAM
Opto Semiconductors

LED Duris S8
 FWHM / FWTM 31.0° / 56.0°
 Efficiency 87 %
 Peak intensity 2.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

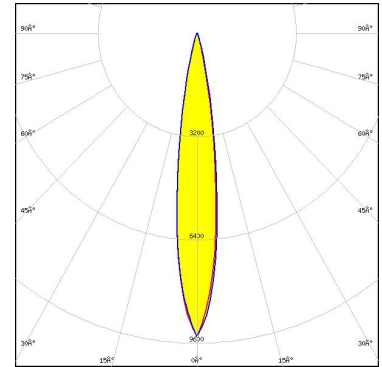


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

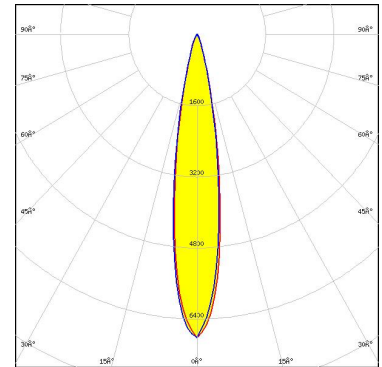
LED OSCONIQ C 2424
 FWHM / FWTM 16.0° / 30.0°
 Efficiency 96 %
 Peak intensity 9.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

OSRAM
Opto Semiconductors

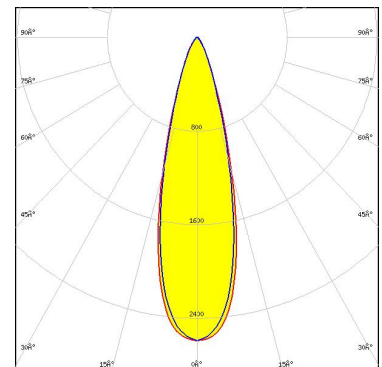
LED OSCONIQ P 3737 Flat
 FWHM / FWTM 18.0° / 34.0°
 Efficiency 95 %
 Peak intensity 6.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED OSCONIQ S 5050
 FWHM / FWTM 28.0° / 52.0°
 Efficiency 85 %
 Peak intensity 2.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



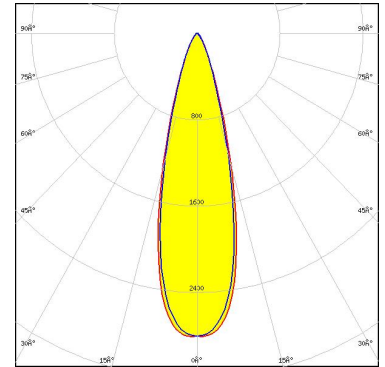
Protective plate, glass

Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

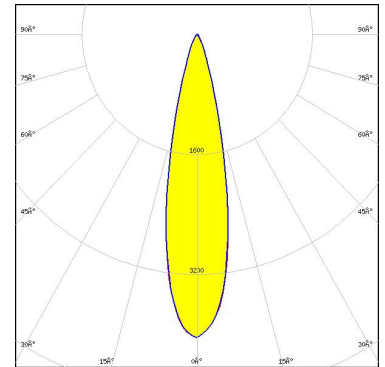
LED OSCONIQ S 5050
 FWHM / FWTM 28.0° / 52.0°
 Efficiency 94 %
 Peak intensity 2.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED OSOLON Square CSSRM2/CSSRM3
 FWHM / FWTM 24.0° / 42.0°
 Efficiency 87 %
 Peak intensity 4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

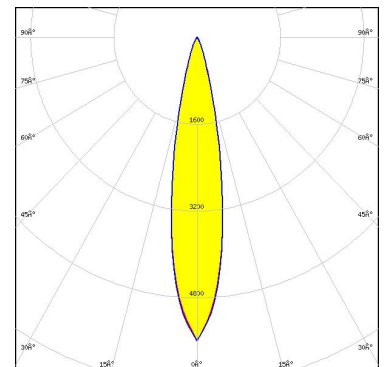


Protective plate, glass

Light distribution files

OSRAM
Opto Semiconductors

LED OSOLON Square CSSRM2/CSSRM3
 FWHM / FWTM 20.0° / 38.0°
 Efficiency 95 %
 Peak intensity 5.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

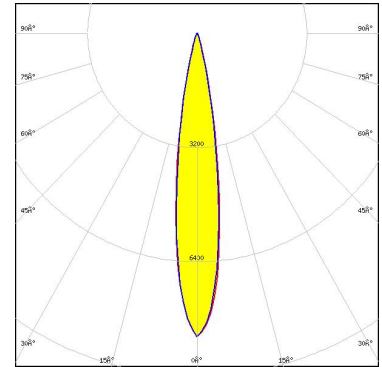


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

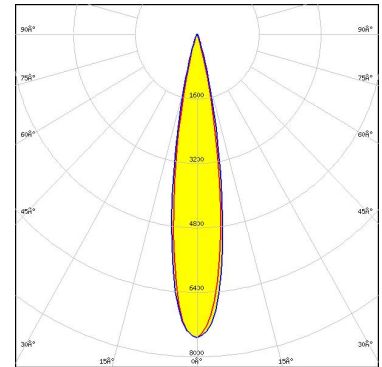
LED OSLON Square Flat
 FWHM / FWTM 17.0° / 30.0°
 Efficiency 96 %
 Peak intensity 8.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

OSRAM
Opto Semiconductors

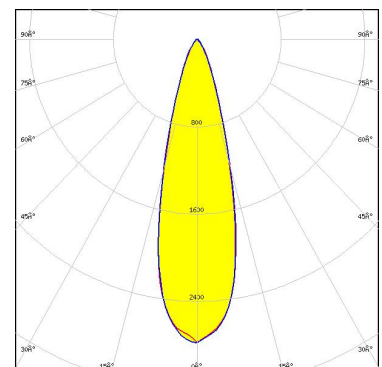
LED OSTAR Projection Compact (KW.CSLNM1.TG)
 FWHM / FWTM 19.0° / 32.0°
 Efficiency 96 %
 Peak intensity 7.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

SAMSUNG

LED LH502C
 FWHM / FWTM 28.0° / 54.0°
 Efficiency 92 %
 Peak intensity 2.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

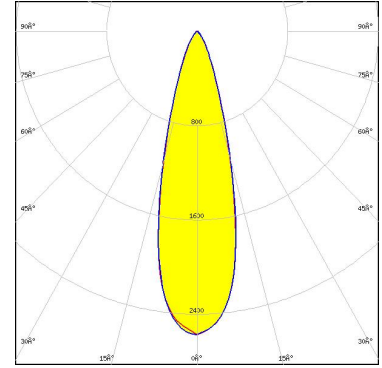
OPTICAL RESULTS (SIMULATED):

SAMSUNG

LED LH502C
FWHM / FWTM 28.0° / 54.0°
Efficiency 85 %
Peak intensity 2.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Protective plate, glass

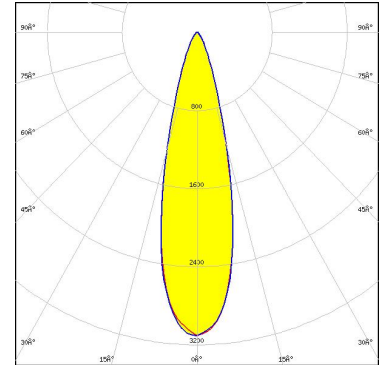
Light distribution files



SAMSUNG

LED LH502D
FWHM / FWTM 26.0° / 50.0°
Efficiency 93 %
Peak intensity 3.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

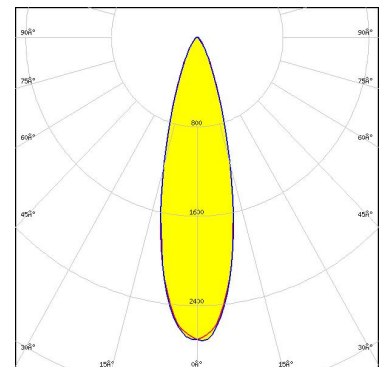
Light distribution files



SAMSUNG

LED LH508B
FWHM / FWTM 28.0° / 56.0°
Efficiency 92 %
Peak intensity 2.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

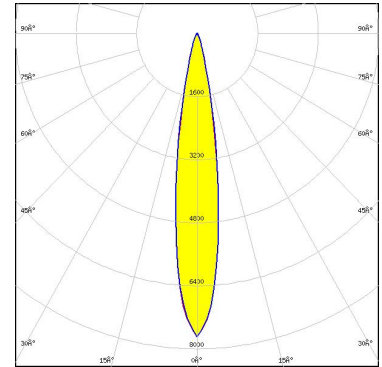
Light distribution files



OPTICAL RESULTS (SIMULATED):

SAMSUNG

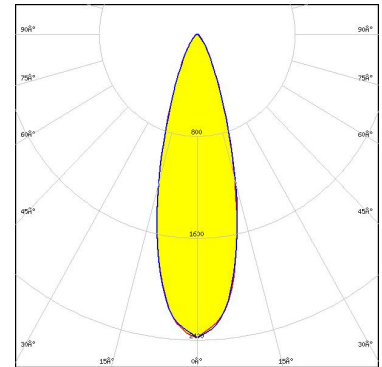
LED LM301B
 FWHM / FWTM 16.0° / 32.0°
 Efficiency 94 %
 Peak intensity 7.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



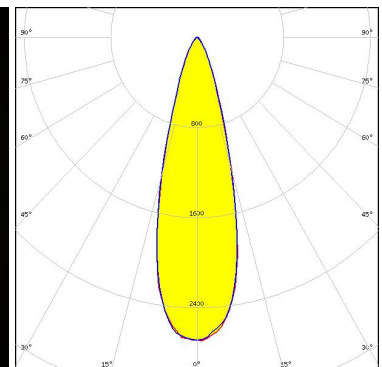
LED MJT 5050
 FWHM / FWTM 30.0° / 60.0°
 Efficiency 92 %
 Peak intensity 2.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files




LED Seoul 5050 G-Series
 FWHM / FWTM 28.0° / 54.0°
 Efficiency 94 %
 Peak intensity 2.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

OPTICAL RESULTS (SIMULATED):

 SEOUL SEMICONDUCTOR	
LED	SEOUL DC 5050 6V
FWHM / FWTM	28.0° / 54.0°
Efficiency	92 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour/type	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.

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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