

HB-2X2-ON

~15° + 50° oval beam

SPECIFICATION:

Dimensions	50.0 x 50.0 mm
Height	10 mm
Fastening	screw
ROHS compliant	yes ⓘ

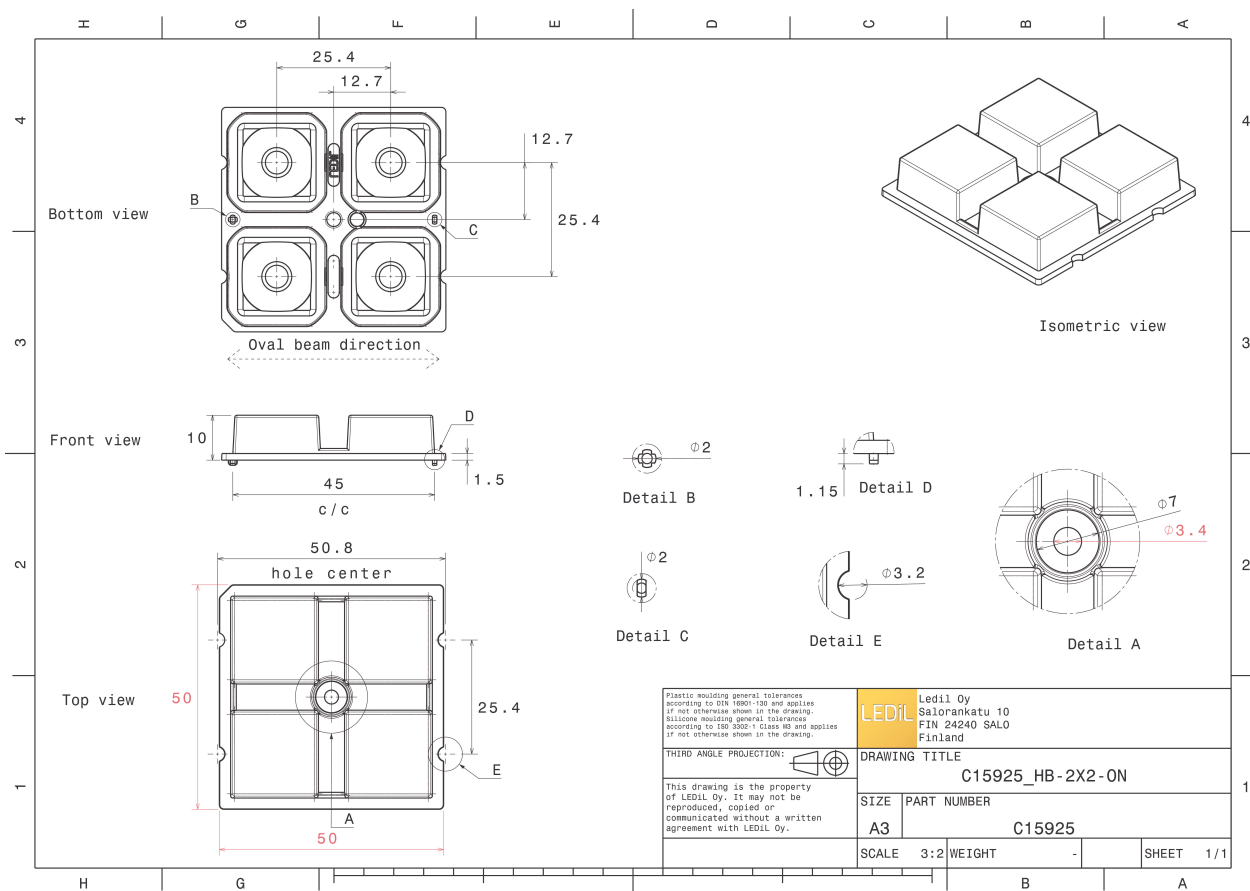
MATERIALS:

Component	Type	Material	Colour	Finish
HB-2X2-ON	Multi-lens	PMMA	clear	



ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C15925_HB-2X2-ON » Box size: 480 x 280 x 300 mm	800	160	160	9.8

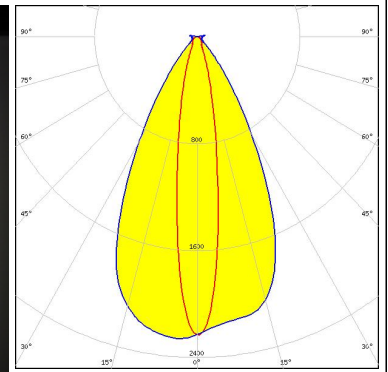


See also our general installation guide: www.ledil.com/installation_guide

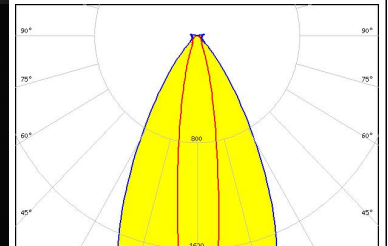
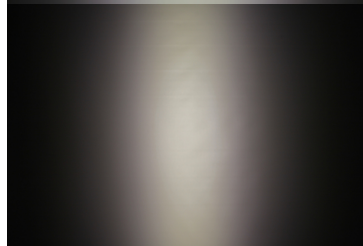
OPTICAL RESULTS (MEASURED):



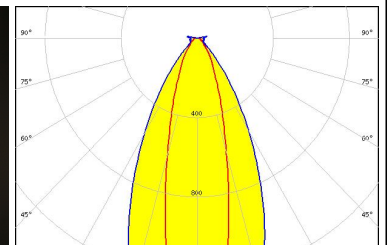
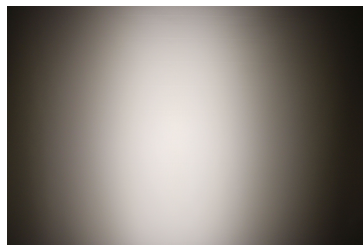
LED QUICK FLUX XTP 2x4 xxx LS G5
 FWHM / FWTM 16.0 + 55.0° / 40.0 + 83.0°
 Efficiency 93 %
 Peak intensity 2.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



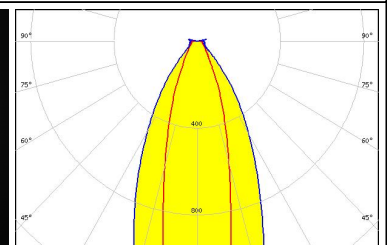
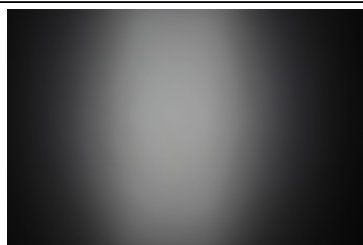
LED QUICK FLUX XTP 2x6 xxx LS G5
 FWHM / FWTM 16.0 + 55.0° / 40.0 + 83.0°
 Efficiency 93 %
 Peak intensity 2.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED J Series 5050C 6V E Class
 FWHM / FWTM 25.0 + 51.0° / 64.0 + 87.0°
 Efficiency 90 %
 Peak intensity 1.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



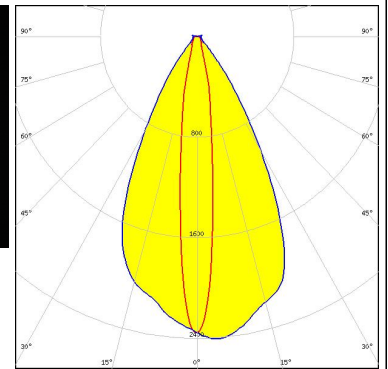
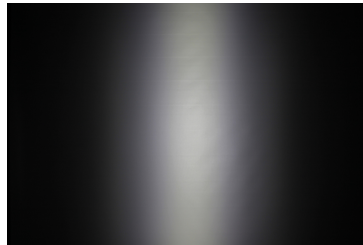
LED XD16
 FWHM / FWTM 27.0 + 49.0° / 62.0 + 89.0°
 Efficiency 90 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 4
 Light colour White
 Required components:



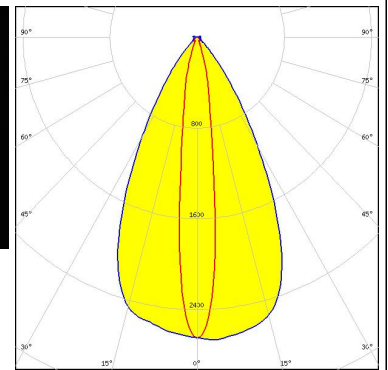
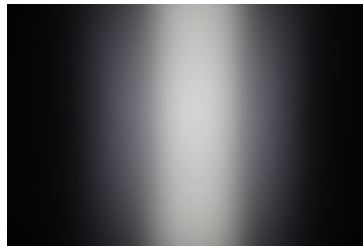
OPTICAL RESULTS (MEASURED):



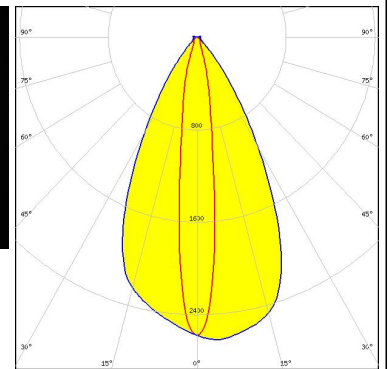
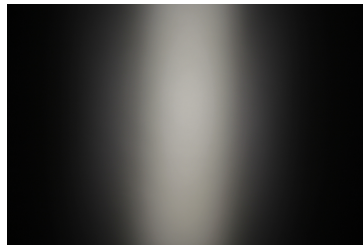
LED XD16
 FWHM / FWTM 13.0 + 55.0° / 34.0 + 82.0°
 Efficiency 89 %
 Peak intensity 2.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



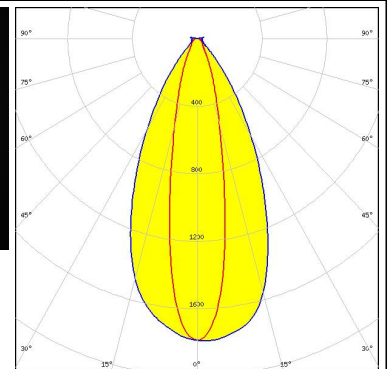
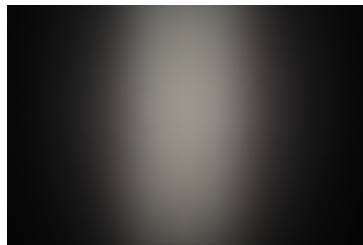
LED XP-G2
 FWHM / FWTM 14.0 + 55.0° / 34.0 + 82.0°
 Efficiency 89 %
 Peak intensity 2.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED XP-L HI
 FWHM / FWTM 14.0 + 55.0° / 36.0 + 82.0°
 Efficiency 91 %
 Peak intensity 2.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



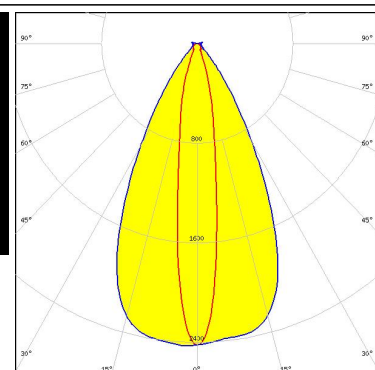
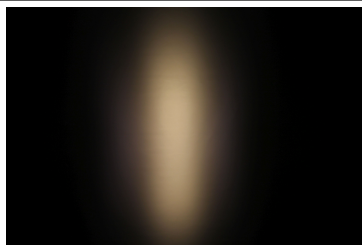
LED LUXEON V
 FWHM / FWTM 22.0 + 51.0° / 52.0 + 86.0°
 Efficiency 92 %
 Peak intensity 1.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (MEASURED):

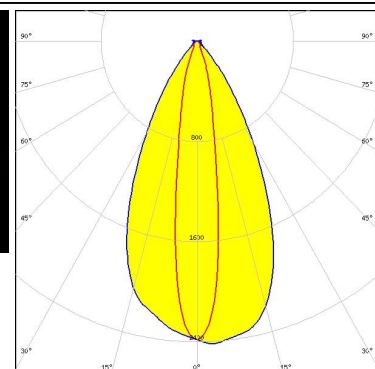
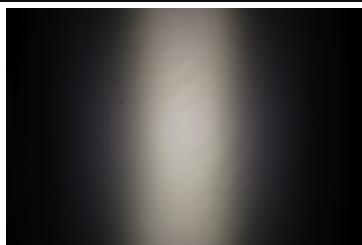
MST *Your solutions*

LED RecLED 122x50mm 1900lm 730 2x4 Opt G1
 FWHM / FWTM 15.0 + 54.0° / 38.5 + 82.5°
 Efficiency 94 %
 Peak intensity 2.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



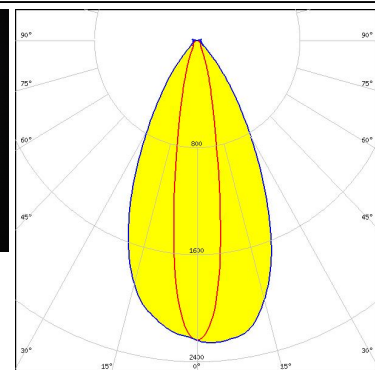
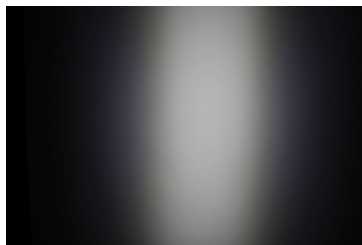
NICHIA

LED NVSW219F
 FWHM / FWTM 17.0 + 53.0° / 40.0 + 83.0°
 Efficiency 93 %
 Peak intensity 2.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



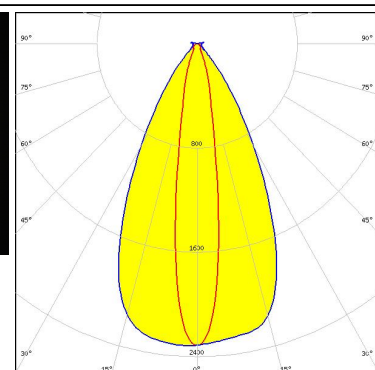
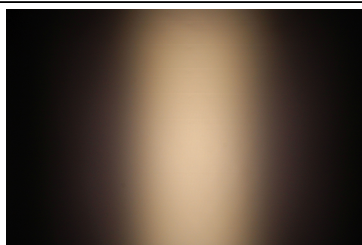
NICHIA

LED NVSW319B
 FWHM / FWTM 18.0 + 52.0° / 41.0 + 84.0°
 Efficiency 93 %
 Peak intensity 2.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM

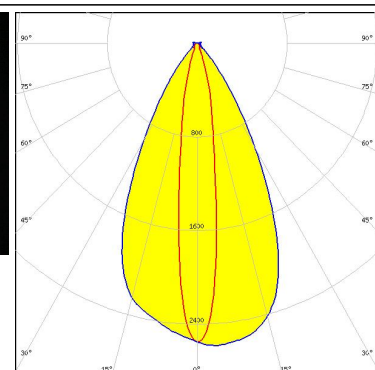
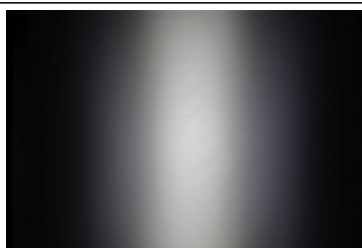
LED PL-BRICK HP 3800 2x8 SSG
 FWHM / FWTM 17.0 + 54.0° / 41.0 + 84.0°
 Efficiency 92 %
 Peak intensity 2.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (MEASURED):

OSRAM

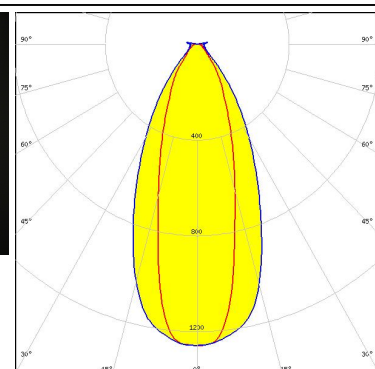
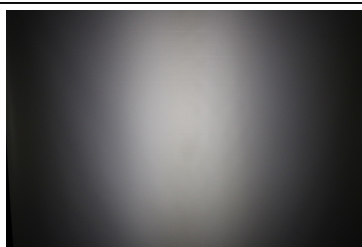
LED PrevaLED Brick HP 2x8
FWHM / FWTM 15.0 + 54.0° / 36.0 + 82.0°
Efficiency 91 %
Peak intensity 2.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM

Opto Semiconductors

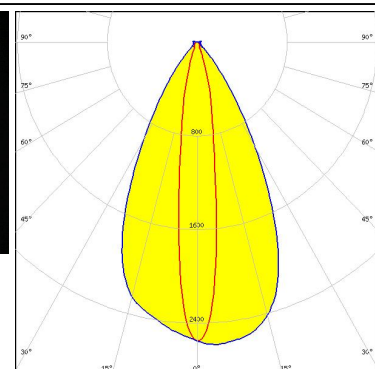
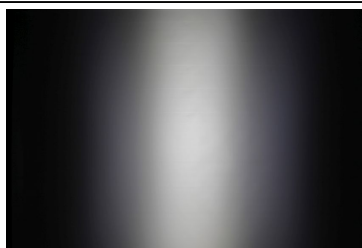
LED Duris S8
FWHM / FWTM 31.0 + 49.0° / 78.0 + 91.0°
Efficiency 92 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM

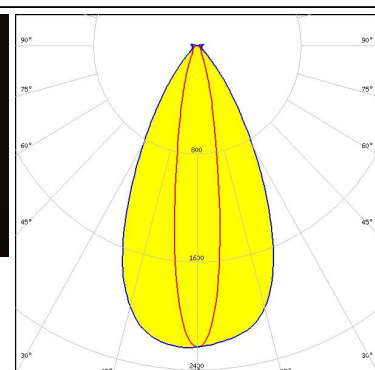
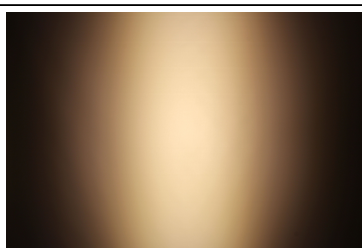
Opto Semiconductors

LED OSLON Square CSSRM2/CSSRM3
FWHM / FWTM 15.0 + 54.0° / 36.0 + 82.0°
Efficiency 91 %
Peak intensity 2.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHILIPS

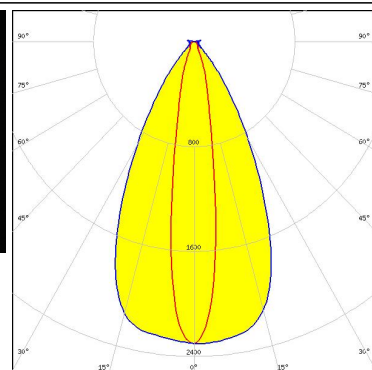
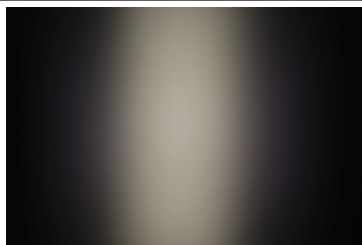
LED Fortimo FastFlex LED 2x8 DA G4+
FWHM / FWTM 18.0 + 53.0° / 41.0 + 84.0°
Efficiency 94 %
Peak intensity 2.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OPTICAL RESULTS (MEASURED):

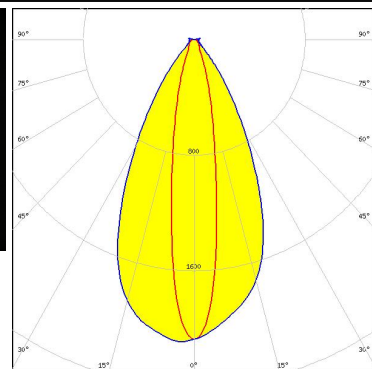
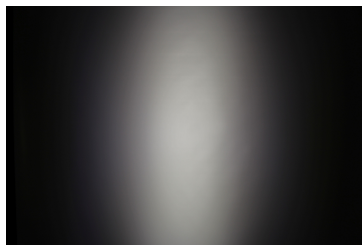
SAMSUNG

LED HiLOM RH16 (LH351C)
 FWHM / FWTM 17.0 + 54.0° / 42.0 + 84.0°
 Efficiency 94 %
 Peak intensity 2.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



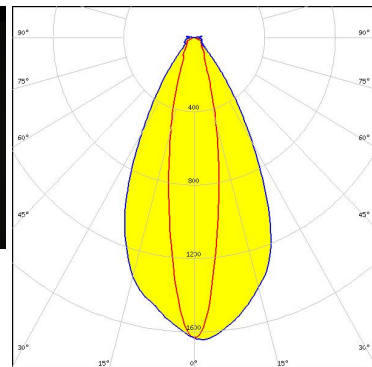
SEOUL SEMICONDUCTOR

LED Z5M3
 FWHM / FWTM 18.0 + 53.0° / 44.0 + 84.0°
 Efficiency 93 %
 Peak intensity 2.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



SEOUL SEMICONDUCTOR

LED Z8Y22
 FWHM / FWTM 20.0 + 53.0° / 50.0 + 85.0°
 Efficiency 91 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



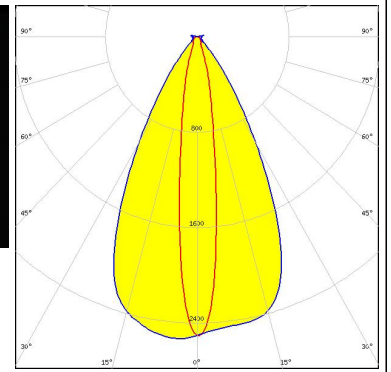
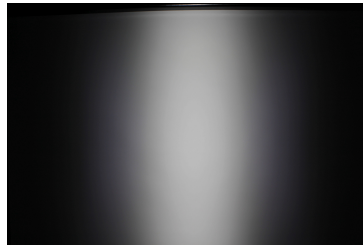
TRIDONIC

LED RLE 2x4 2000lm HP EXC2 OTD
 FWHM / FWTM 15.0 + 55.0° / 37.0 + 82.0°
 Efficiency 94 %
 Peak intensity 2.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

OPTICAL RESULTS (MEASURED):

TRIDONIC

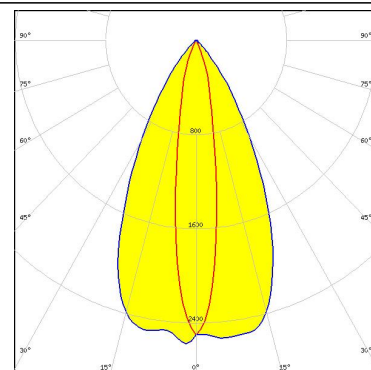
LED RLE 2x8 4000lm HP EXC2 OTD
 FWHM / FWTM 15.0 + 55.0° / 37.0 + 82.0°
 Efficiency 94 %
 Peak intensity 2.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (SIMULATED):



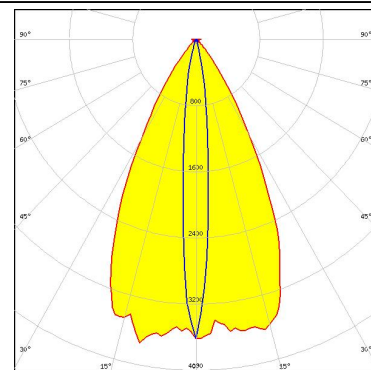
LED XHP35 HI
FWHM / FWTM 16.0 + 50.0°
Efficiency 90 %
LEDs/each optic 1
Light colour White
Required components:



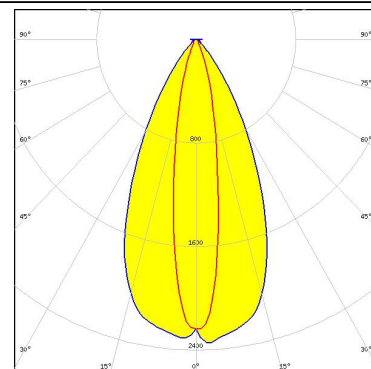
LED XP-E2
FWHM / FWTM 10.0 + 50.0°
Efficiency 90 %
LEDs/each optic 1
Light colour White
Required components:



LED XP-E2
FWHM / FWTM 54.0 + 10.0° / 78.0 + 27.0°
Efficiency 93 %
Peak intensity 3.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



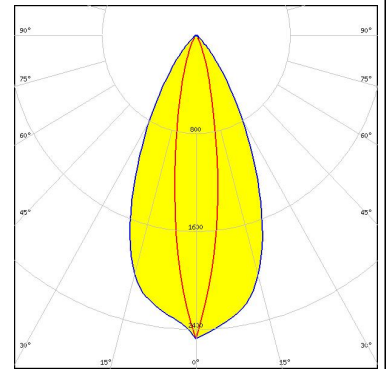
LED XP-G2 HE
FWHM / FWTM 18.0 + 51.0° / 42.0 + 82.0°
Efficiency 90 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



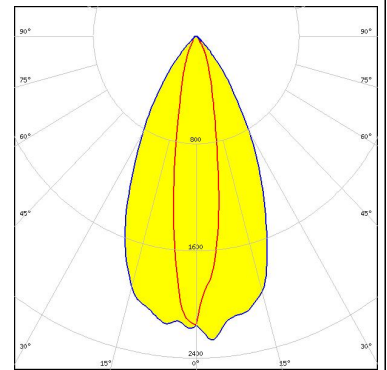
OPTICAL RESULTS (SIMULATED):



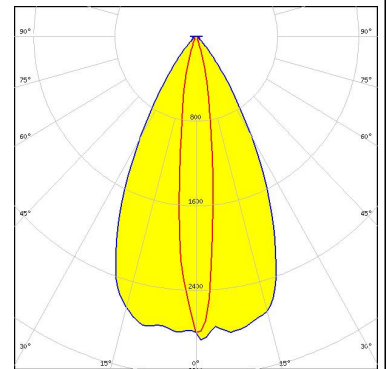
LED XP-G3
FWHM / FWTM 17.0 + 48.0°
Efficiency 89 %
LEDs/each optic 1
Light colour White
Required components:



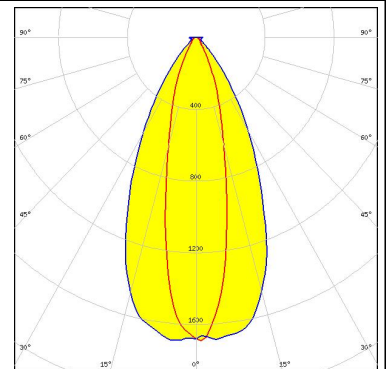
LED XP-L HD
FWHM / FWTM 18.0 + 50.0°
Efficiency 88 %
LEDs/each optic 1
Light colour White
Required components:



LED XT-E
FWHM / FWTM 14.0 + 55.0° / 34.0 + 80.0°
Efficiency 91 %
Peak intensity 2.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



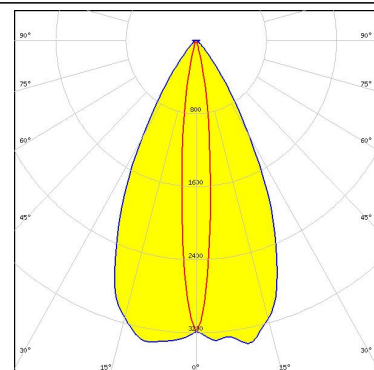
LED LUXEON 5050 Round LES
FWHM / FWTM 23.0 + 51.0° / 56.0 + 86.0°
Efficiency 89 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OPTICAL RESULTS (SIMULATED):

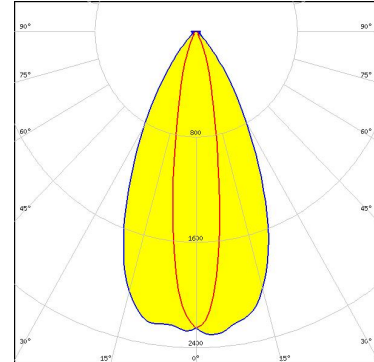
LUMILEDS

LED LUXEON C
FWHM / FWTM 12.0 + 54.0° / 27.0 + 79.0°
Efficiency 91 %
Peak intensity 3.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



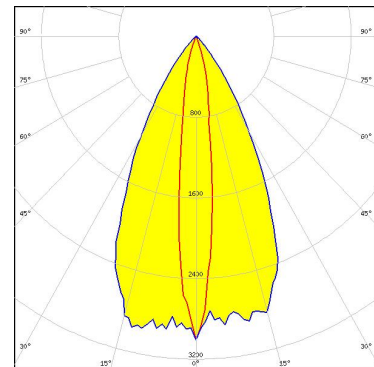
LUMILEDS

LED LUXEON HL2X
FWHM / FWTM 18.0 + 52.0° / 42.0 + 82.0°
Efficiency 90 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:



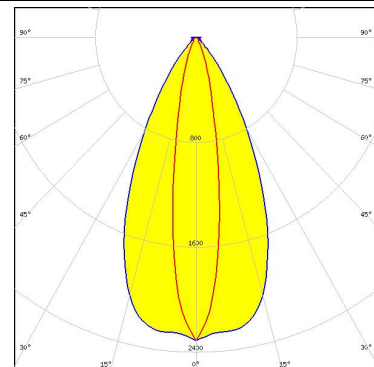
LUMILEDS

LED LUXEON TX
FWHM / FWTM 14.0 + 50.0°
Efficiency 90 %
LEDs/each optic 1
Light colour White
Required components:



LUMILEDS

LED LUXEON XR-HL2X (L2H2-xxxxxxxMLU010)
FWHM / FWTM 18.0 + 52.0° / 42.0 + 82.0°
Efficiency 91 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:

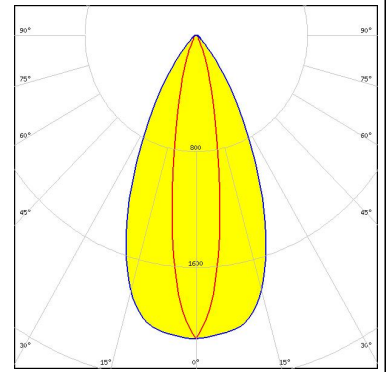


OPTICAL RESULTS (SIMULATED):

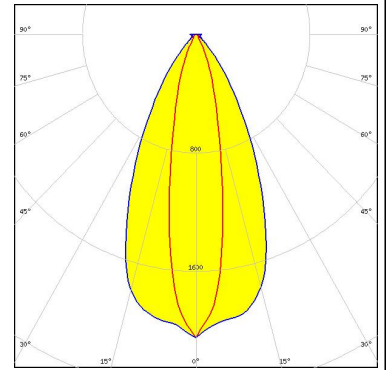


LED LUXEON XR-HL2X (L2H2-xxxxxxxMLU010)
 FWHM / FWTM 18.0 + 50.0° / 42.0 + 80.0°
 Efficiency 82 %
 Peak intensity 2.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

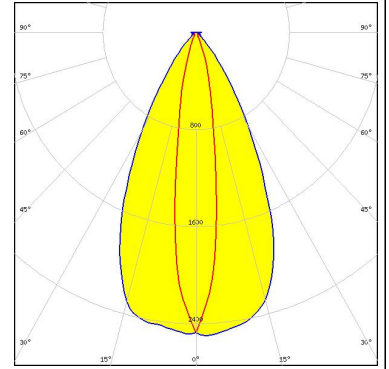
Protective plate, glass



LED NV4WB35AM
 FWHM / FWTM 20.0 + 50.0° / 48.0 + 84.0°
 Efficiency 90 %
 Peak intensity 2.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

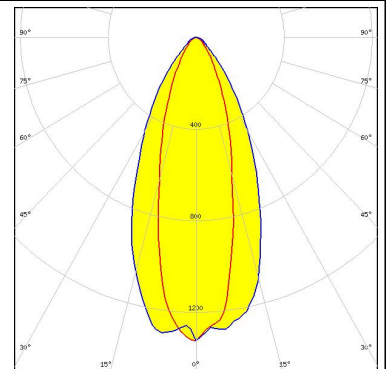


LED NVSxx19B/NVSxx19C
 FWHM / FWTM 16.0 + 53.0° / 38.0 + 81.0°
 Efficiency 90 %
 Peak intensity 2.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED Duris S8
 FWHM / FWTM 29.0 + 49.0° / 69.0 + 89.0°
 Efficiency 84 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

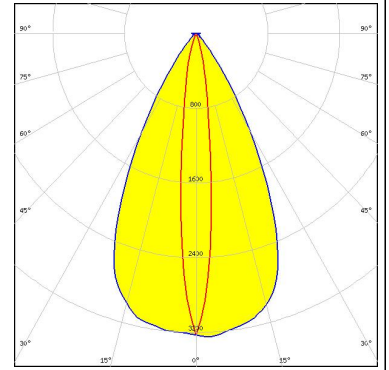
Protective plate, glass



OPTICAL RESULTS (SIMULATED):

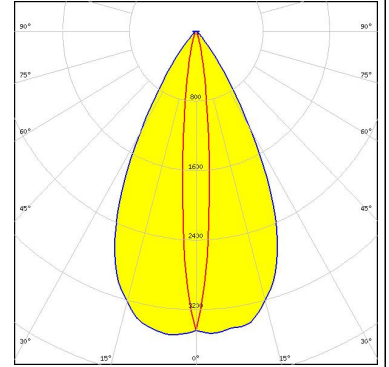
OSRAM Opto Semiconductors

LED OSCONIQ C 2424
FWHM / FWTM 12.0 + 54.0° / 30.0 + 78.0°
Efficiency 92 %
Peak intensity 3.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:



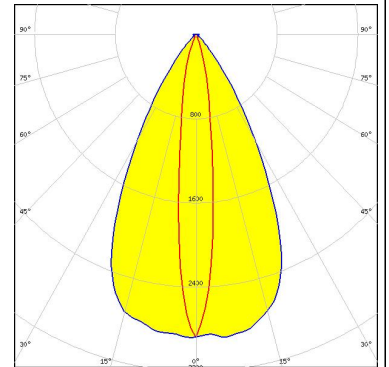
OSRAM Opto Semiconductors

LED OSCONIQ P 3030
FWHM / FWTM 10.0 + 56.0° / 28.0 + 78.0°
Efficiency 94 %
Peak intensity 3.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



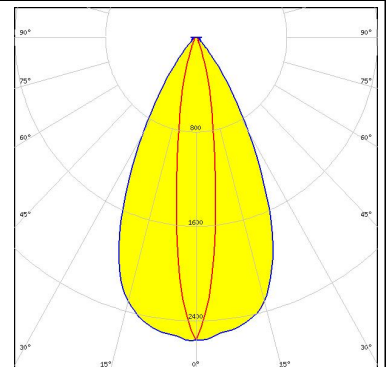
OSRAM Opto Semiconductors

LED OSCONIQ P 3737 (2W version)
FWHM / FWTM 13.0 + 56.0° / 34.0 + 81.0°
Efficiency 93 %
Peak intensity 2.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM Opto Semiconductors

LED OSCONIQ P 3737 Flat
FWHM / FWTM 16.0 + 54.0° / 38.0 + 80.0°
Efficiency 92 %
Peak intensity 2.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:

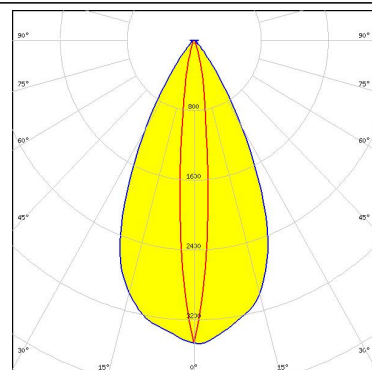


OPTICAL RESULTS (SIMULATED):

OSRAM

Opto Semiconductors

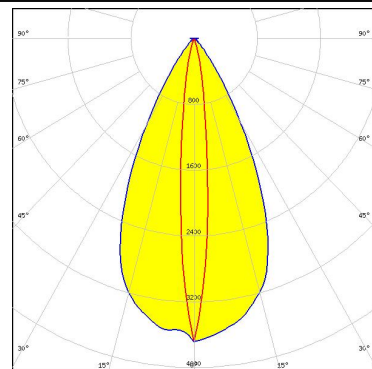
LED OSLON Square Flat
FWHM / FWTM 12.0 + 52.0° / 29.0 + 76.0°
Efficiency 93 %
Peak intensity 3.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM

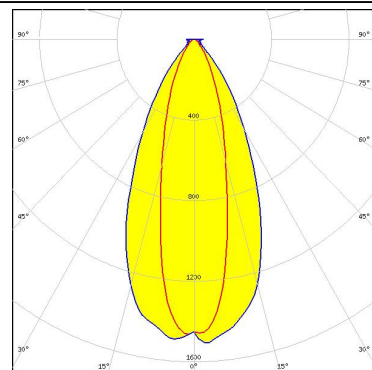
Opto Semiconductors

LED OSTAR Projection Compact (KW.CSLNM1.TG)
FWHM / FWTM 10.0 + 52.0° / 26.0 + 76.0°
Efficiency 93 %
Peak intensity 3.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



SAMSUNG

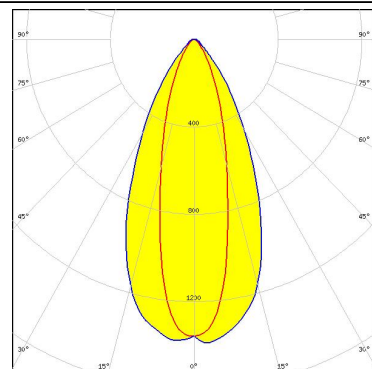
LED LH502C
FWHM / FWTM 26.0 + 50.0° / 64.0 + 86.0°
Efficiency 87 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



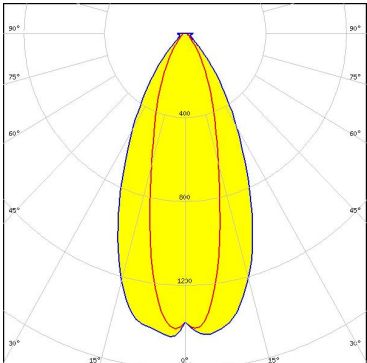
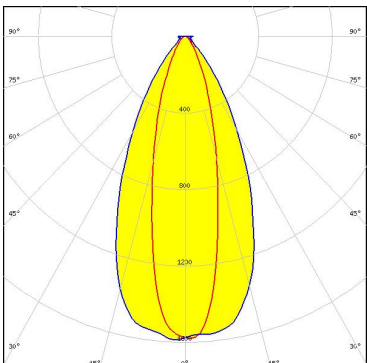
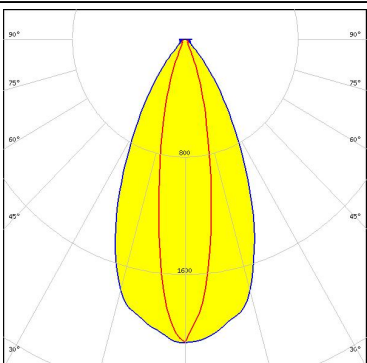
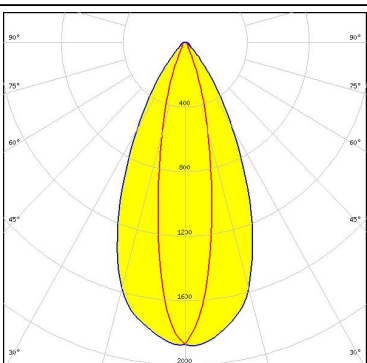
SAMSUNG

LED LH502C
FWHM / FWTM 28.0 + 50.0° / 64.0 + 86.0°
Efficiency 79 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:

Protective plate, glass



OPTICAL RESULTS (SIMULATED):

SEOUL SEMICONDUCTOR LED MJT 5050 FWHM / FWTM 28.0 + 50.0° / 67.0 + 88.0° Efficiency 87 % Peak intensity 1.5 cd/lm LEDs/each optic 1 Light colour White Required components:	
SEOUL SEMICONDUCTOR LED SEOUL DC 5050 6V FWHM / FWTM 26.0 + 50.0° / 60.0 + 86.0° Efficiency 90 % Peak intensity 1.6 cd/lm LEDs/each optic 1 Light colour White Required components:	
SEOUL SEMICONDUCTOR LED Z5M5 FWHM / FWTM 20.0 + 50.0° / 46.0 + 82.0° Efficiency 90 % Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour White Required components:	
SEOUL SEMICONDUCTOR LED Z5M5 FWHM / FWTM 22.0 + 50.0° / 46.0 + 82.0° Efficiency 81 % Peak intensity 1.9 cd/lm LEDs/each optic 1 Light colour White Required components: Protective plate, glass	

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.

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