

HB-IP-2X6-O

~30° + 115° oval beam

TECHNICAL SPECIFICATIONS:

Dimensions	173.0 x 71.4 mm
Height	13.1 mm
Fastening	screw
Ingress protection classes	IP67
ROHS compliant	yes ⓘ

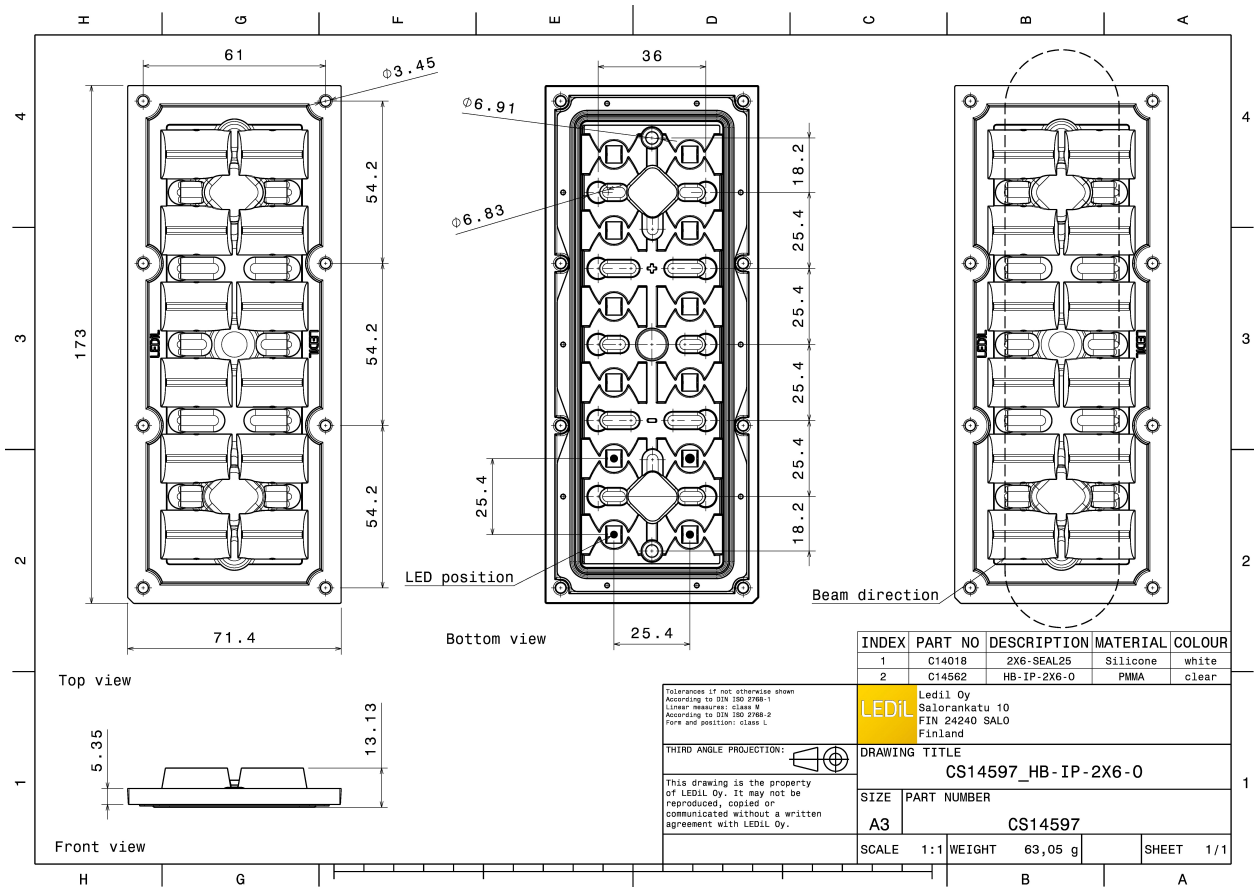
MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
HB-IP-2X6-O	Multi-lens	PMMA	clear	
2X6-SEAL25	Seal	Silicone	white	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CS14597_HB-IP-2X6-O	Multi-lens	108	36	36	8.0
» Box size: 476 x 273 x 247 mm					



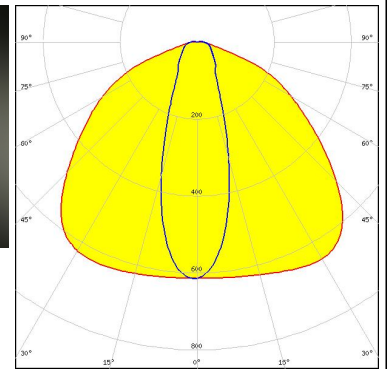


See also our general installation guide: www.ledil.com/installation_guide

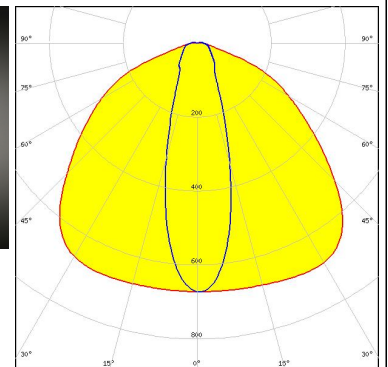
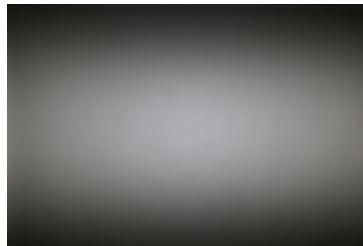
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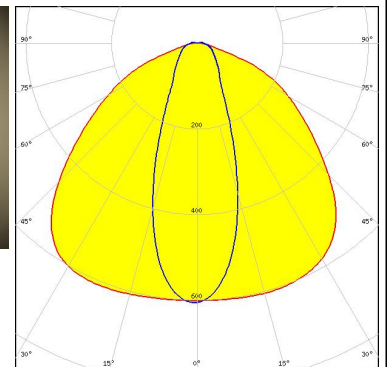
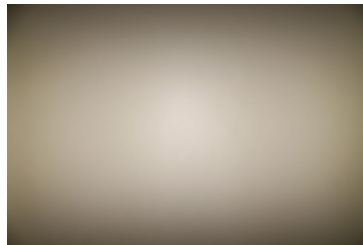
LED QUICK FLUX 2x6 LED XG xxx G7+
 FWHM / FWTM 116.0 + 32.0° / 149.0 + 92.0°
 Efficiency 91 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



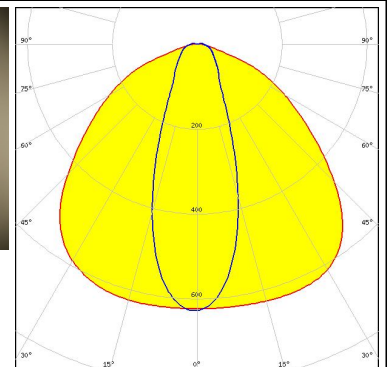
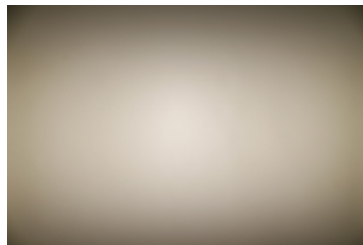
LED QUICK FLUX 2x6 LED XT xxx G5
 FWHM / FWTM 113.0 + 30.0° / 148.0 + 87.0°
 Efficiency 90 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED XM-L
 FWHM / FWTM 36.0 + 110.0° / 96.0 + 147.0°
 Efficiency 91 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



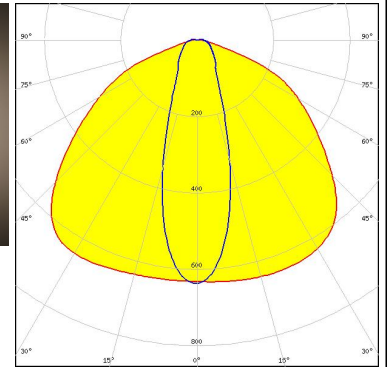
LED XM-L2
 FWHM / FWTM 36.0 + 108.0° / 92.0 + 147.0°
 Efficiency 91 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



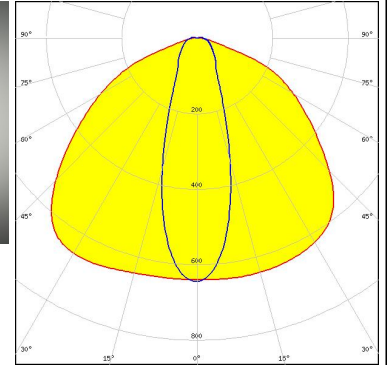
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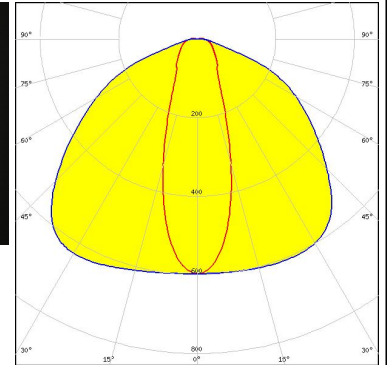
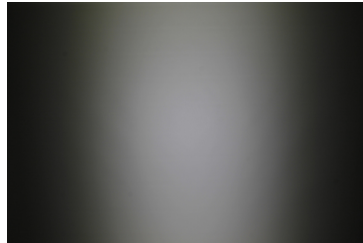
LED XP-G
FWHM / FWTM 31.0 + 117.0° / 91.0 + 149.0°
Efficiency 91 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



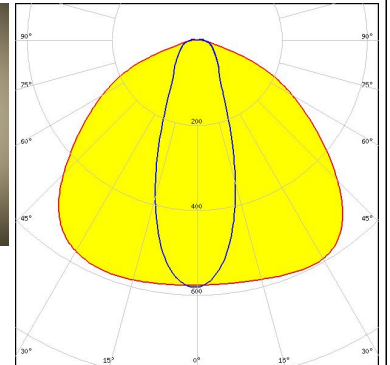
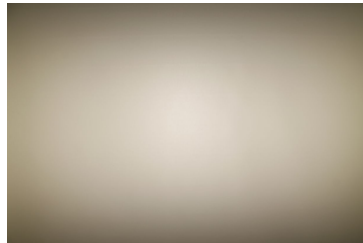
LED XP-G2
FWHM / FWTM 32.0 + 116.0° / 91.0 + 149.0°
Efficiency 92 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED XP-G3
FWHM / FWTM 33.0 + 119.0° / 100.0 + 150.0°
Efficiency 92 %
Peak intensity 0.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:



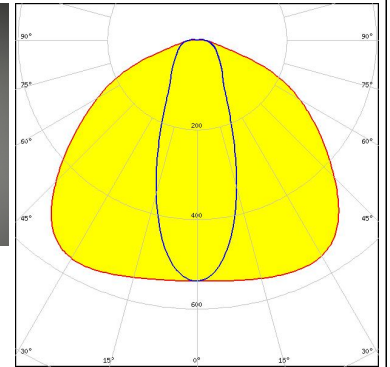
LED XP-L HD
FWHM / FWTM 36.0 + 115.0° / 100.0 + 149.0°
Efficiency 91 %
Peak intensity 0.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:



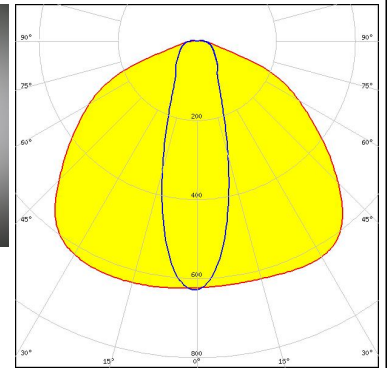
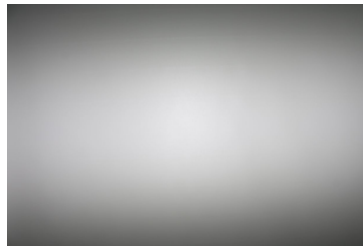
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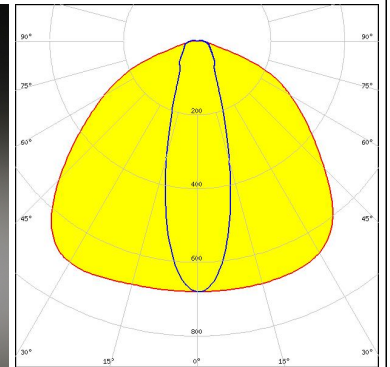
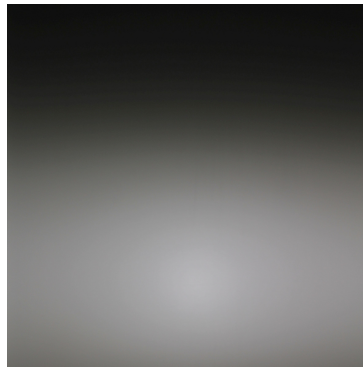
LED XP-L2
 FWHM / FWTM 118.0 + 38.0° / 151.0 + 114.0°
 Efficiency 92 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



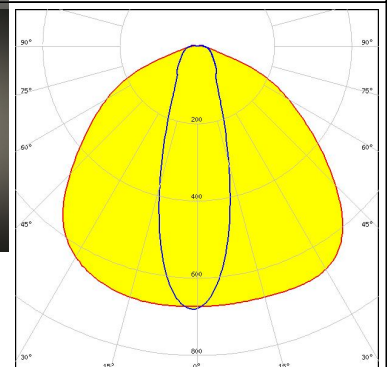
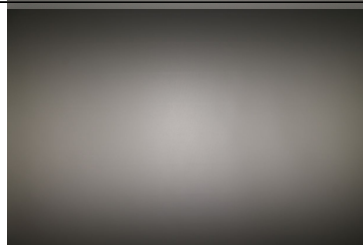
LED XT-E
 FWHM / FWTM 31.0 + 119.0° / 99.0 + 151.0°
 Efficiency 92 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED XT-E HE
 FWHM / FWTM 112.0 + 29.0° / 147.0 + 85.0°
 Efficiency 90 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



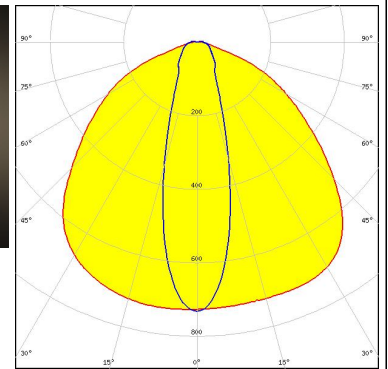
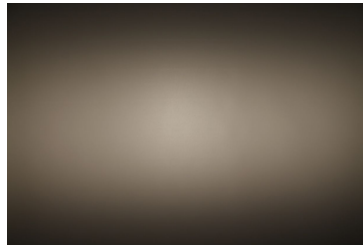
LED LUXEON R
 FWHM / FWTM 30.0 + 109.0° / 89.0 + 147.0°
 Efficiency 91 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (MEASURED):

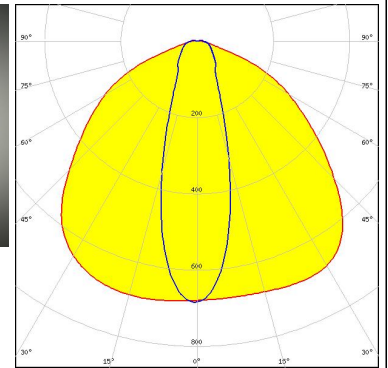
LUMILEDS

LED LUXEON Rebel
 FWHM / FWTM 28.0 + 107.0° / 84.0 + 145.0°
 Efficiency 91 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



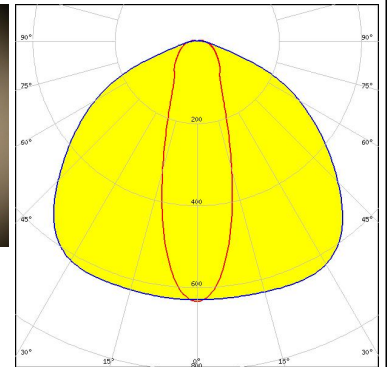
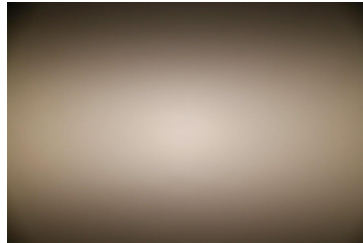
LUMILEDS

LED LUXEON Rebel ES
 FWHM / FWTM 30.0 + 110.0° / 88.0 + 146.0°
 Efficiency 91 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



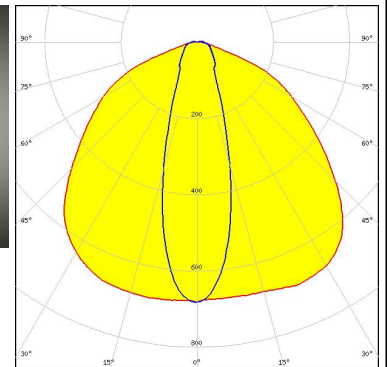
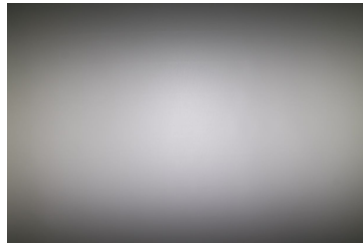
LUMILEDS

LED LUXEON T
 FWHM / FWTM 32.0 + 115.0° / 103.0 + 148.0°
 Efficiency 91 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LUMILEDS

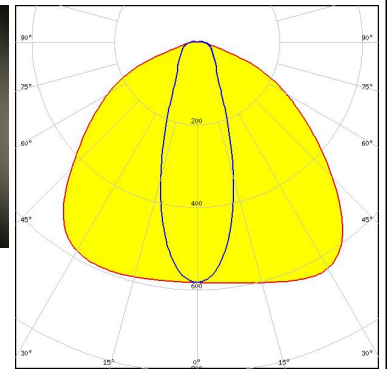
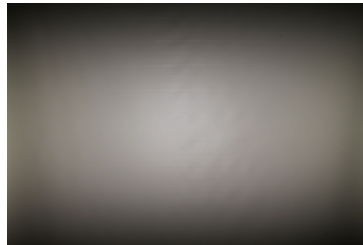
LED LUXEON TX
 FWHM / FWTM 30.0 + 111.0° / 84.0 + 147.0°
 Efficiency 90 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (MEASURED):

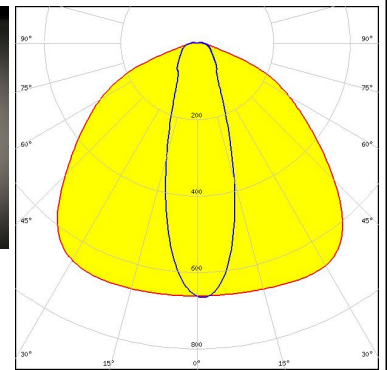
LUMILEDS

LED LUXEON V
FWHM / FWTM 112.0 + 34.0° / 147.0 + 92.0°
Efficiency 87 %
Peak intensity 0.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:



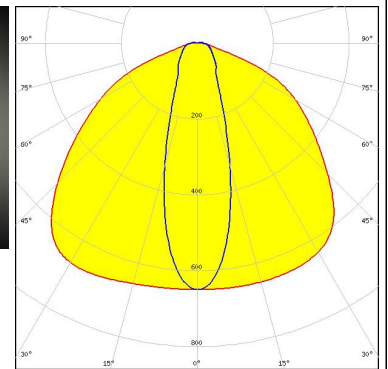
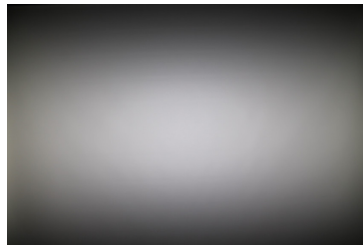
LUMILEDS

LED LUXEON V2
FWHM / FWTM 113.0 + 31.0° / 147.0 + 91.0°
Efficiency 92 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



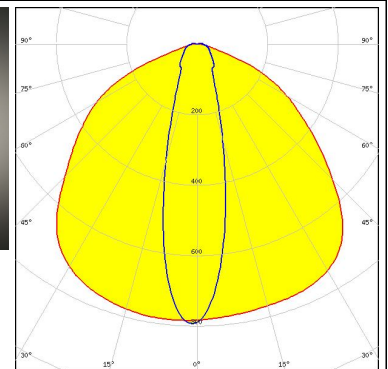
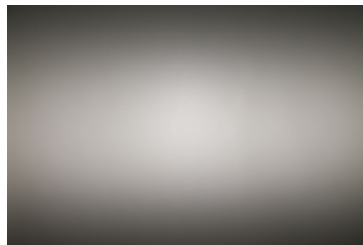
LUMILEDS

LED LUXEON XR-TX (L2T0-xyy012M)
FWHM / FWTM 30.0 + 115.0° / 92.0 + 148.0°
Efficiency 91 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LUMILEDS

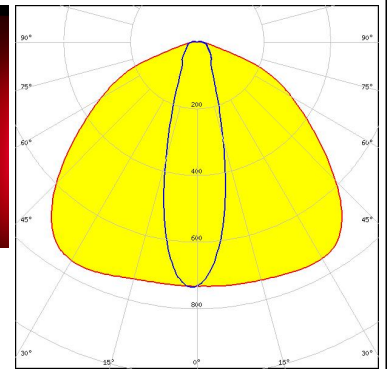
LED LUXEON Z ES
FWHM / FWTM 25.0 + 108.0° / 73.0 + 145.0°
Efficiency 90 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



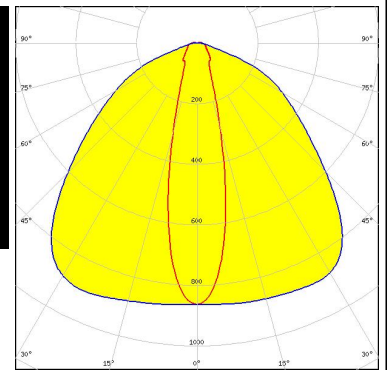
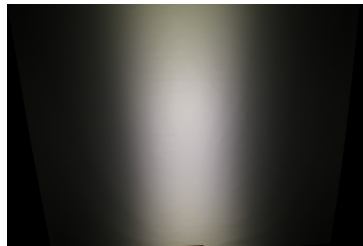
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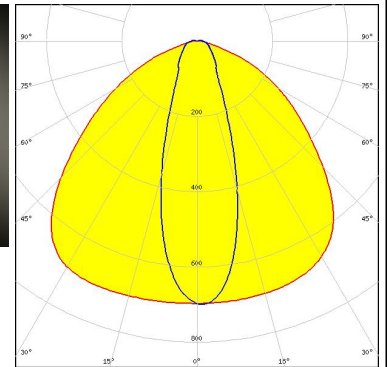
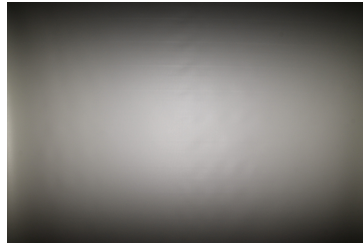
LED SST-10-B130
 FWHM / FWTM 114.0 + 28.0° / 147.0 + 70.0°
 Efficiency 93 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour Deep Red
 Required components:



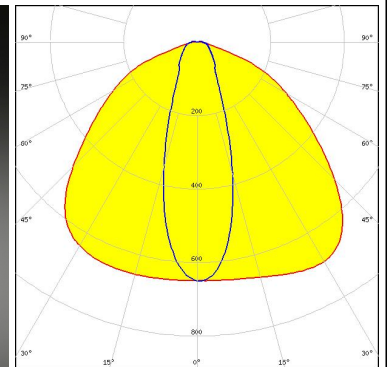
LED RecLED 146x45mm 2900lm 730 STRADA-IP-2x6 G1
 FWHM / FWTM 24.0 + 103.5° / 56.5 + 143.5°
 Efficiency 94 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED NVSW219D
 FWHM / FWTM 106.0 + 32.0° / 145.0 + 85.0°
 Efficiency 92 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



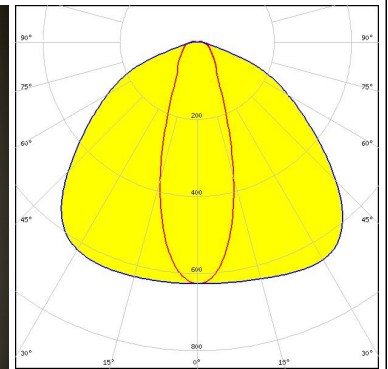
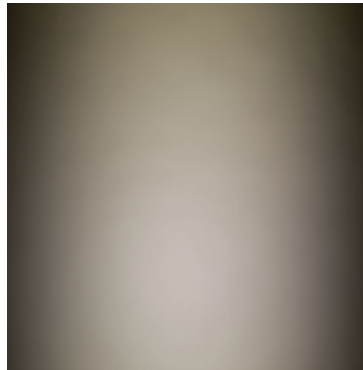
LED NVSW219F
 FWHM / FWTM 112.0 + 32.0° / 147.0 + 88.0°
 Efficiency 92 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



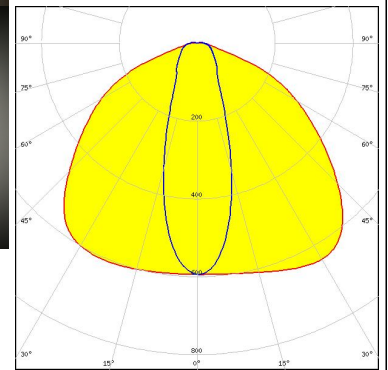
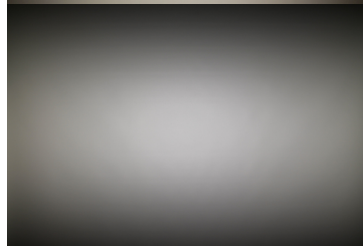
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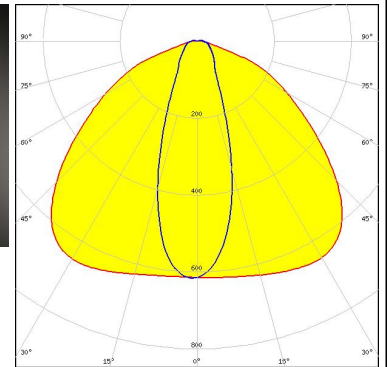
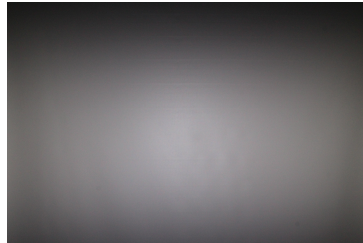
LED NVSW319B
FWHM / FWTM 34.0 + 113.0° / 91.0 + 148.0°
Efficiency 92 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



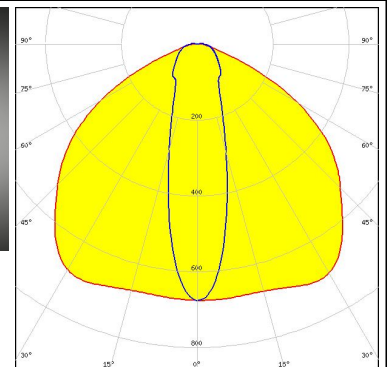
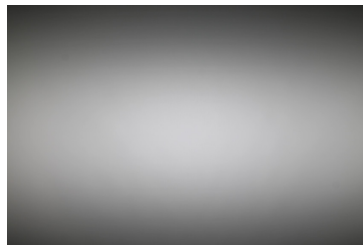
LED NVSW3x9A
FWHM / FWTM 119.0 + 33.0° / 149.0 + 100.0°
Efficiency 92 %
Peak intensity 0.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED NVSW519A
FWHM / FWTM 113.0 + 35.0° / 147.0 + 90.0°
Efficiency 94 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



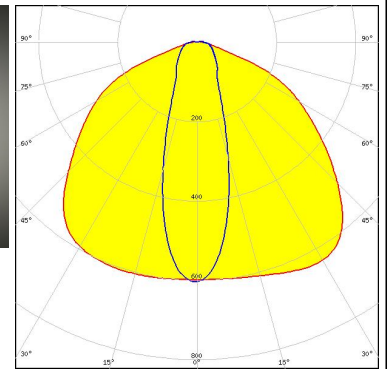
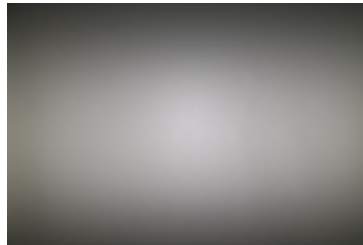
LED NVSxE21A
FWHM / FWTM 26.0 + 116.0° / 107.0 + 145.0°
Efficiency 91 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



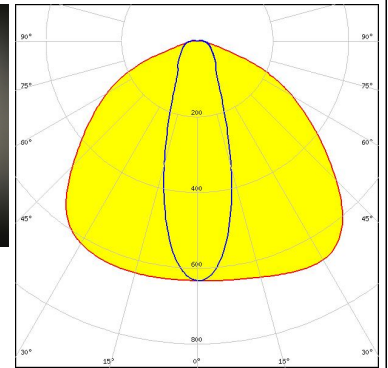
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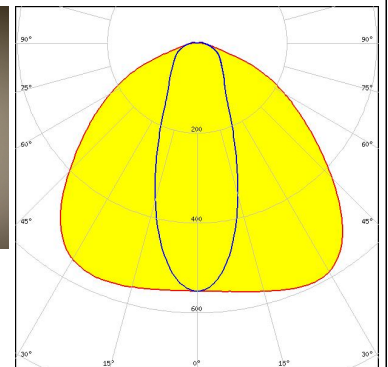
LED NVSxx19B/NVSxx19C
 FWHM / FWTM 31.0 + 116.0° / 100.0 + 149.0°
 Efficiency 90 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



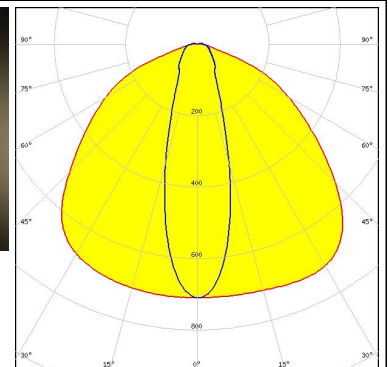
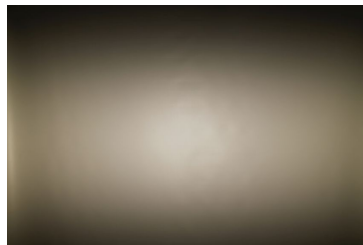
LED NVSxx19B/NVSxx19C
 FWHM / FWTM 114.0 + 32.0° / 148.0 + 93.0°
 Efficiency 91 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED Duris S8
 FWHM / FWTM 111.0 + 38.0° / 148.0 + 121.0°
 Efficiency 92 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED OSLON Square CSSRM2/CSSRM3
 FWHM / FWTM 110.0 + 29.0° / 146.0 + 86.0°
 Efficiency 92 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

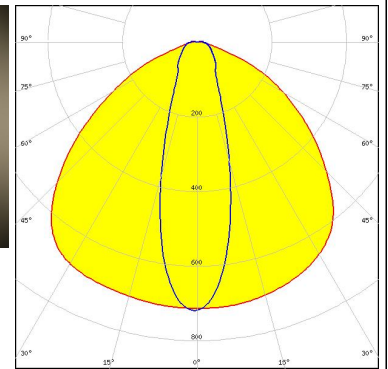


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OSRAM

Opto Semiconductors

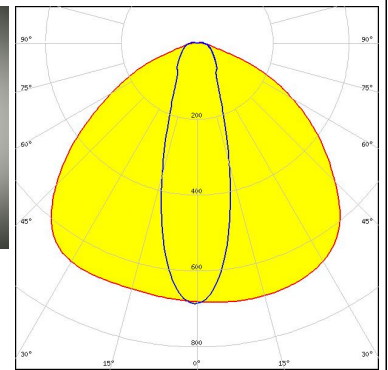
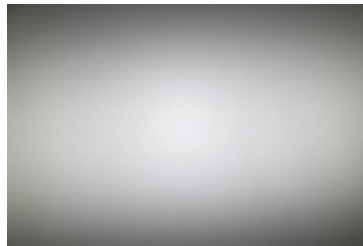
LED OSLON Square EC
FWHM / FWTM 30.0 + 108.0° / 87.0 + 145.0°
Efficiency 91 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM

Opto Semiconductors

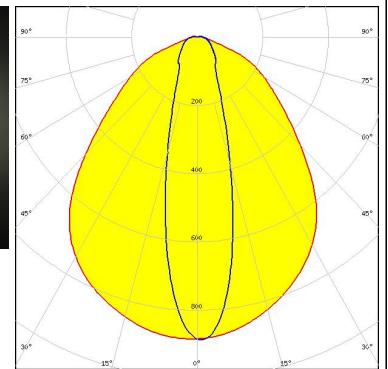
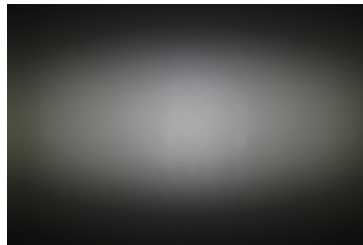
LED OSLON Square PC
FWHM / FWTM 30.0 + 111.0° / 91.0 + 146.0°
Efficiency 92 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM

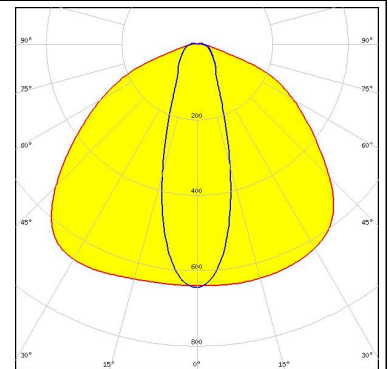
Opto Semiconductors

LED OSLON SSL 80
FWHM / FWTM 26.0 + 92.0° / 81.0 + 143.0°
Efficiency 93 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHILIPS

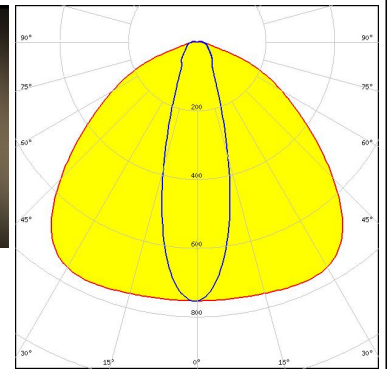
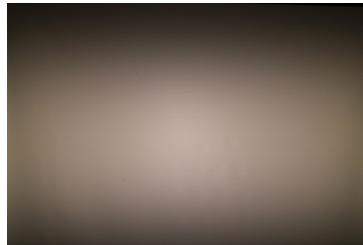
LED Fortimo FastFlex LED 2x6 DP G4
FWHM / FWTM 32.0 + 116.0° / 91.0 + 149.0°
Efficiency 92 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (MEASURED):

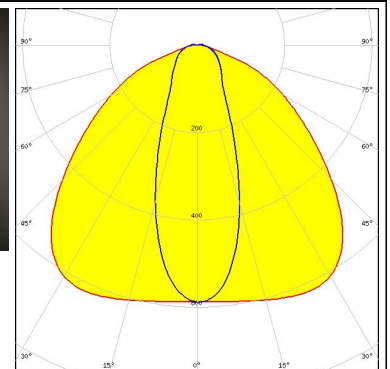
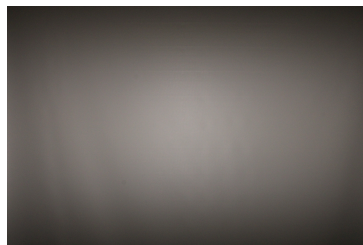
PHILIPS

LED Fortimo FastFlex LED 2x6 DP G5
 FWHM / FWTM 108.0 + 29.0° / 145.0 + 72.0°
 Efficiency 94 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



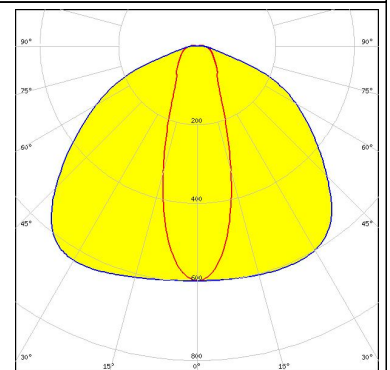
PHILIPS

LED Fortimo FastFlex LED 2x6 DP HE
 FWHM / FWTM 106.0 + 37.0° / 146.0 + 110.0°
 Efficiency 94 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



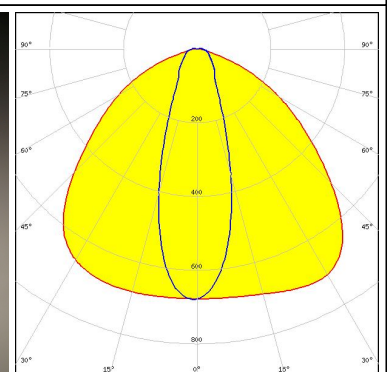
PHILIPS

LED Fortimo FastFlex LED 2x6 DPX G4
 FWHM / FWTM 33.0 + 119.0° / 100.0 + 150.0°
 Efficiency 92 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



SAMSUNG

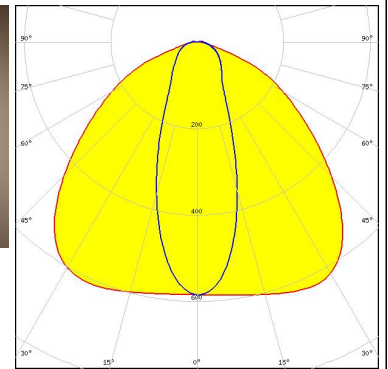
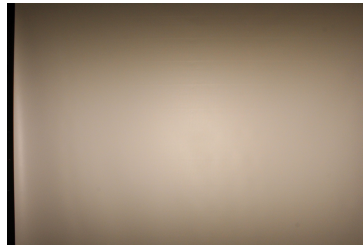
LED HiLOM RH12 (LH351C)
 FWHM / FWTM 107.0 + 32.0° / 145.0 + 85.0°
 Efficiency 92 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (MEASURED):

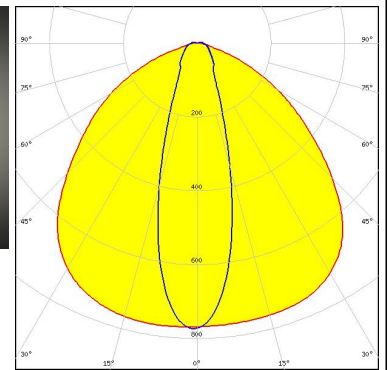
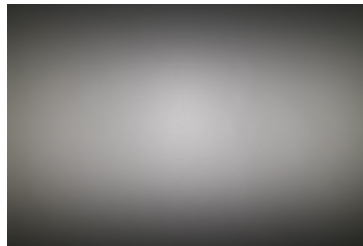
SAMSUNG

LED HiLOM RM12 ZP (LH502C)
 FWHM / FWTM 107.0 + 37.0° / 146.0 + 111.0°
 Efficiency 93 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



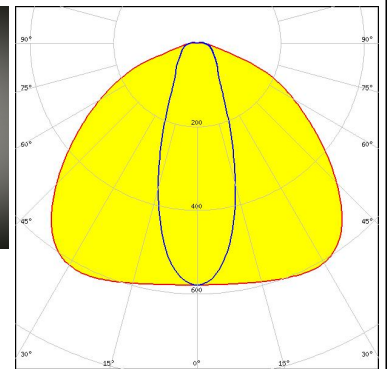
SAMSUNG

LED LH351Z
 FWHM / FWTM 29.0 + 104.0° / 70.0 + 144.0°
 Efficiency 91 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



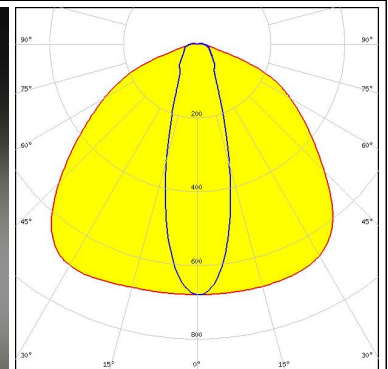
SCIOLUX

LED ROY-S26XPL2 (XP-L2)
 FWHM / FWTM 116.0 + 36.0° / 150.0 + 98.0°
 Efficiency 93 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



SCIOLUX

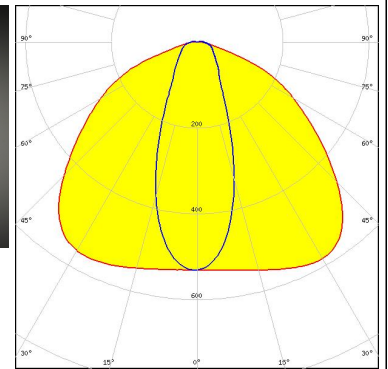
LED XLE-S22C4XTEHE (XT-E HE)
 FWHM / FWTM 112.0 + 29.0° / 147.0 + 85.0°
 Efficiency 90 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



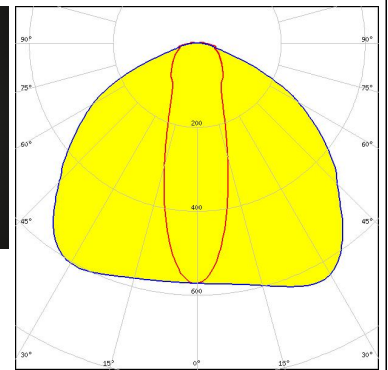
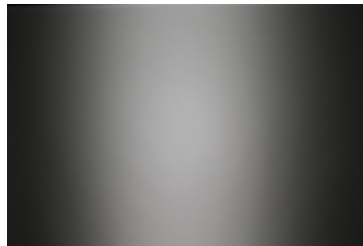
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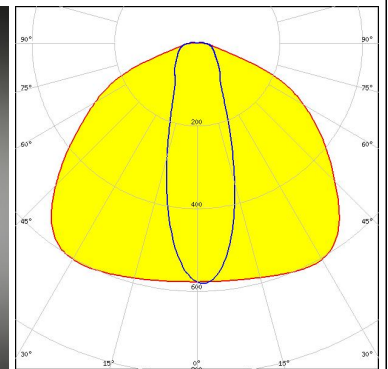
LED XLE-S26XHP35 (XHP35 HD)
 FWHM / FWTM 118.0 + 38.0° / 151.0 + 103.0°
 Efficiency 91 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



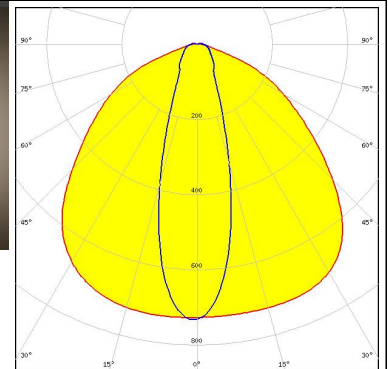
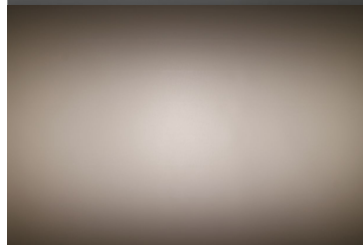
LED SMJQ-D36W12Mx
 FWHM / FWTM 30.0 + 119.0° / 128.0 + 149.0°
 Efficiency 91 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



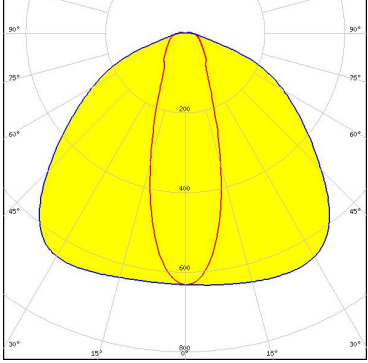
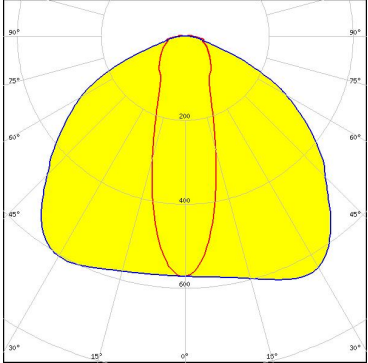
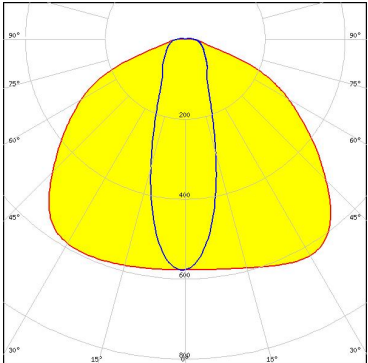
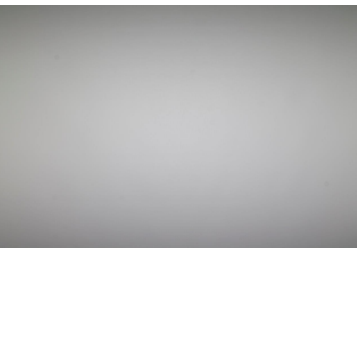
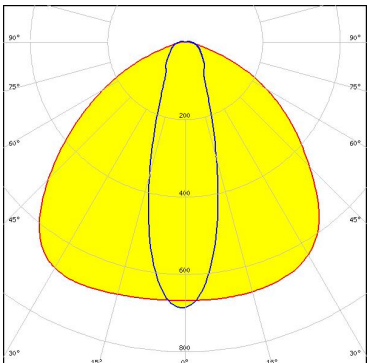
LED SMJQ-D36W12Px
 FWHM / FWTM 121.0 + 32.0° / 151.0 + 108.0°
 Efficiency 92 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED Z5M1/Z5M2
 FWHM / FWTM 29.0 + 105.0° / 79.0 + 145.0°
 Efficiency 90 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



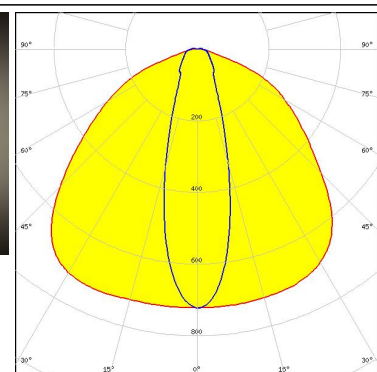
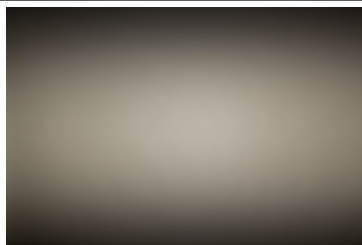
PHOTOMETRIC DATA (MEASURED):

SEOUL SEMICONDUCTOR LED Z5M3 FWHM / FWTM 32.0 + 111.0° / 96.0 + 148.0° Efficiency 92 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White Required components:		
SEOUL SEMICONDUCTOR LED Z8Y22 FWHM / FWTM 30.0 + 119.0° / 128.0 + 149.0° Efficiency 91 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White Required components:		
SEOUL SEMICONDUCTOR LED Z8Y22P FWHM / FWTM 122.0 + 32.0° / 151.0 + 111.0° Efficiency 92 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White Required components:		
TOSHIBA Leading Innovation >>> LED TL1L4 FWHM / FWTM 29.0 + 107.0° / 88.0 + 144.0° Efficiency 87 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White Required components:		

PHOTOMETRIC DATA (MEASURED):

TRIDONIC

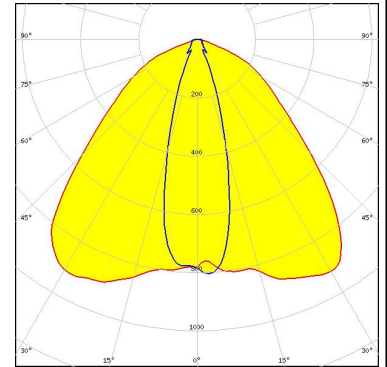
LED RLE 2x6 3000lm HP EXC2 OTD
 FWHM / FWTM 108.0 + 29.0° / 146.0 + 82.0°
 Efficiency 92 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



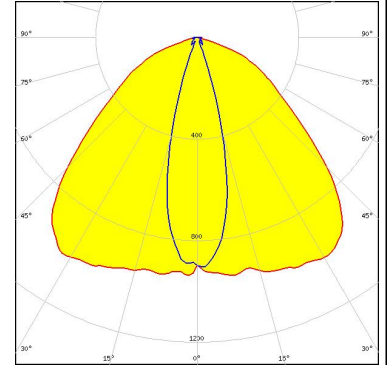
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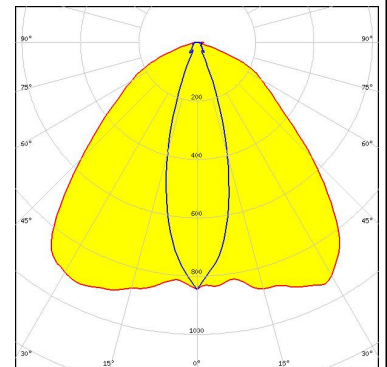
LED J Series 5050 Round LES
 FWHM / FWTM 29.0 + 96.0° / 50.0 + 141.0°
 Efficiency 94 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



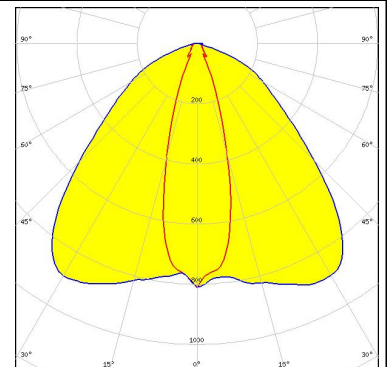
LED XP-G2 HE
 FWHM / FWTM 103.0 + 28.0° / 144.0 + 42.0°
 Efficiency 94 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED LUXEON 5050 Round LES
 FWHM / FWTM 34.0 + 96.0° / 61.0 + 141.0°
 Efficiency 93 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



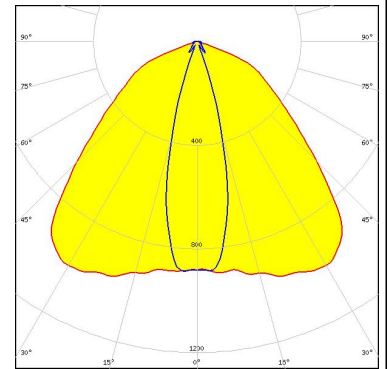
LED LUXEON 5050 Square LES
 FWHM / FWTM 30.0 + 98.0° / 52.0 + 141.0°
 Efficiency 95 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



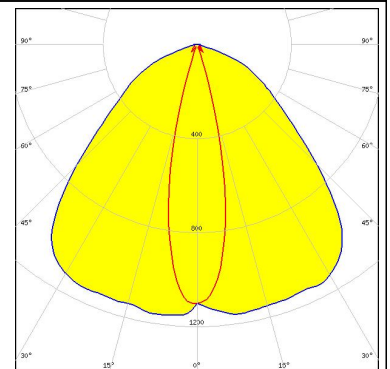
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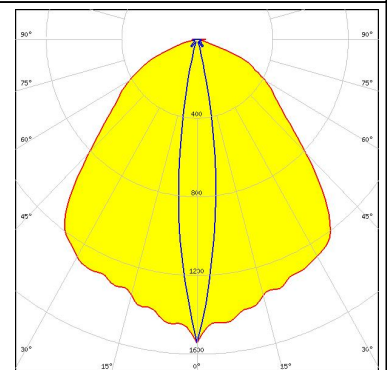
LED NV4WB35AM
 FWHM / FWTM 100.0 + 28.0° / 140.0 + 42.0°
 Efficiency 95 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



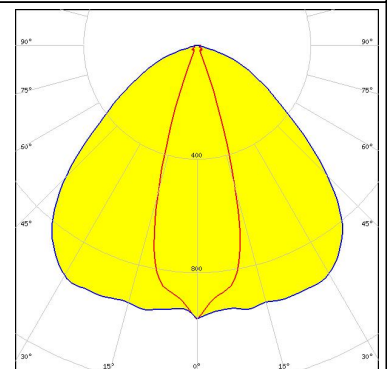
LED PrevaLED Brick HP IP 2x6
 FWHM / FWTM 24.0 + 97.0° / 36.0 + 141.0°
 Efficiency 95 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED OSCONIQ P 3030
 FWHM / FWTM 92.0 + 14.0° / 141.0 + 28.0°
 Efficiency 95 %
 Peak intensity 1.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED OSCONIQ P 3737 (2W version)
 FWHM / FWTM 32.0 + 100.0° / 44.0 + 142.0°
 Efficiency 95 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

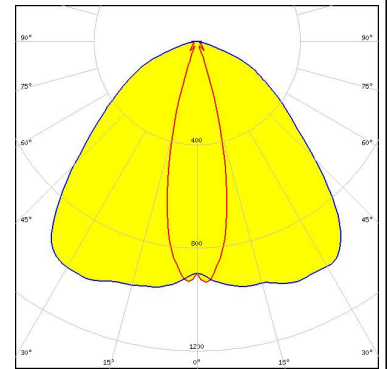


PHOTOMETRIC DATA (SIMULATED):

OSRAM

Opto Semiconductors

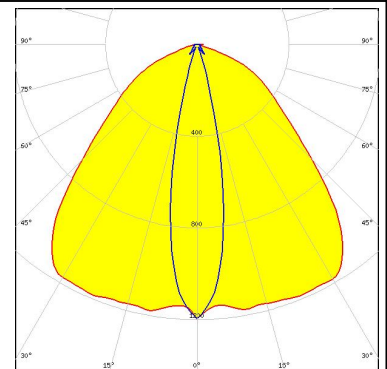
LED OSCONIQ P 3737 (3W version)
 FWHM / FWTM 27.0 + 100.0° / 44.0 + 143.0°
 Efficiency 94 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM

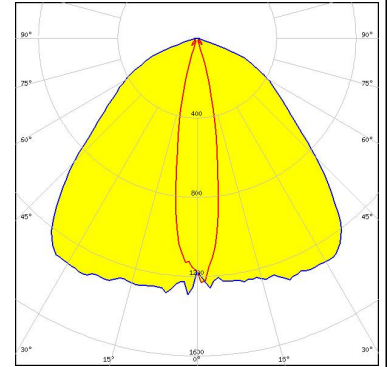
Opto Semiconductors

LED OSCONIQ P 3737 Flat
 FWHM / FWTM 96.0 + 22.0° / 140.0 + 36.0°
 Efficiency 96 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



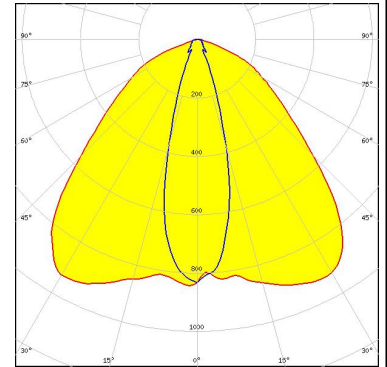
SEOUL SEMICONDUCTOR

LED SEOUL DC 3528
 FWHM / FWTM 20.0 + 99.0° / 36.0 + 142.0°
 Efficiency 94 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

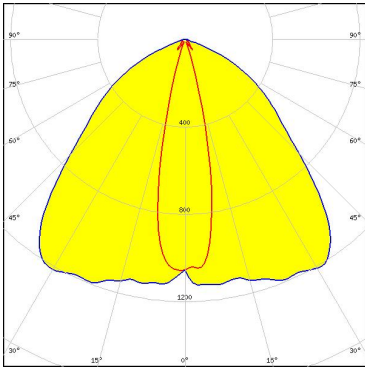
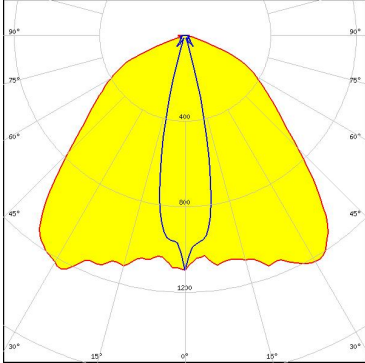


SEOUL SEMICONDUCTOR

LED SEOUL DC 5050 6V
 FWHM / FWTM 97.0 + 29.0° / 142.0 + 49.0°
 Efficiency 94 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (SIMULATED):

 SEOUL SEMICONDUCTOR	LED Z5M4 FWHM / FWTM 24.0 + 98.0° / 34.0 + 136.0° Efficiency 96 % Peak intensity 1.2 cd/lm LEDs/each optic 1 Light colour White Required components:	
 SEOUL SEMICONDUCTOR	LED Z8Y22T FWHM / FWTM 97.0 + 21.0° / 141.0 + 32.0° Efficiency 94 % Peak intensity 1.2 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.

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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