

HB-IP-2X6-W

~60° wide beam

TECHNICAL SPECIFICATIONS:

Dimensions	173.0 x 71.4 mm
Height	11.4 mm
Fastening	pin, screw
Ingress protection classes	IP67
ROHS compliant	yes ⓘ

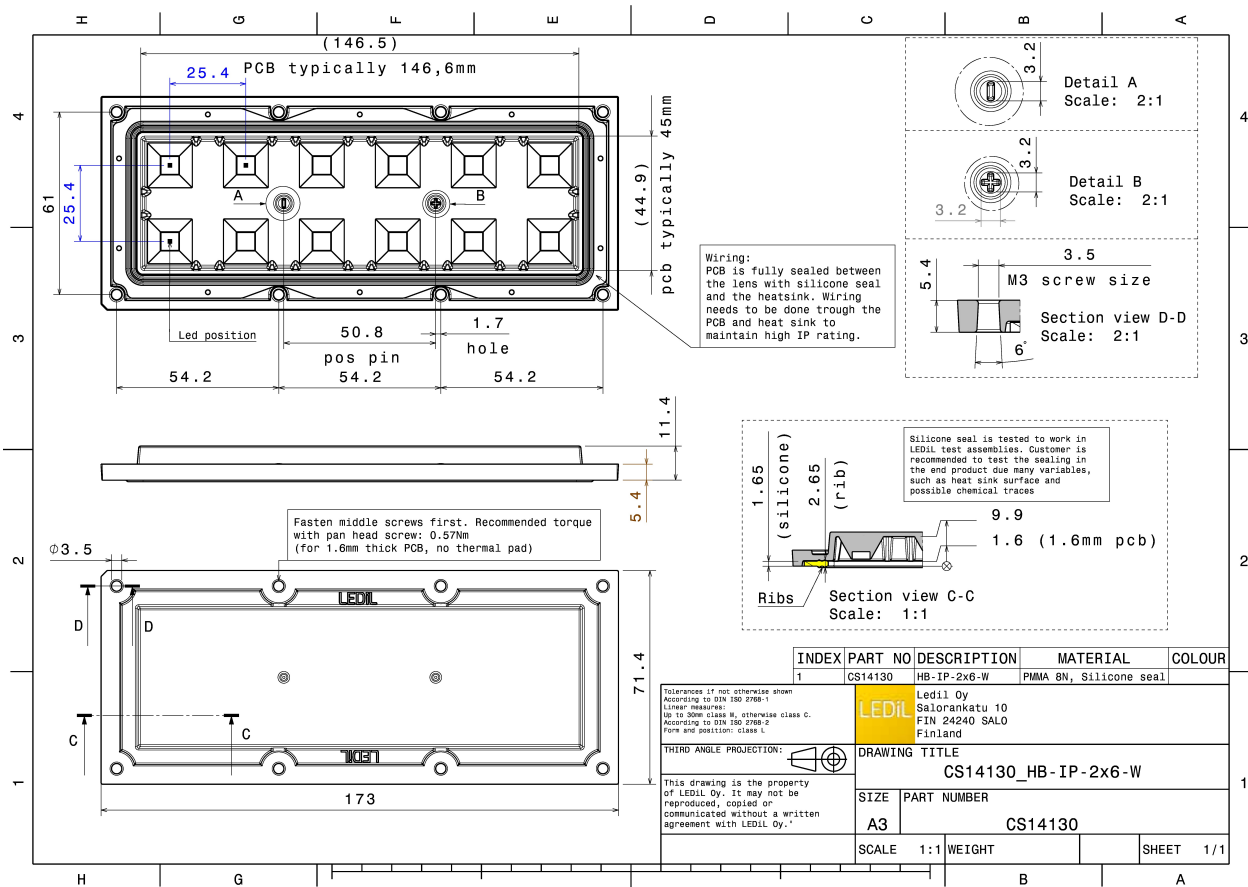
MATERIAL SPECIFICATIONS:

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

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CS14130_HB-IP-2X6-W	Multi-lens	120	40	40	8.4
» Box size: 476 x 273 x 247 mm					



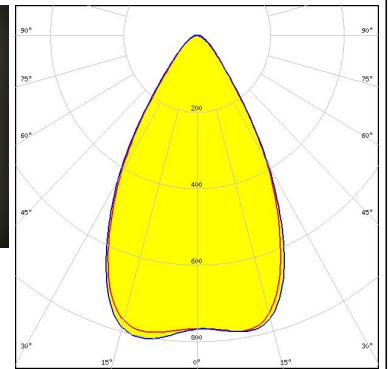


See also our general installation guide: www.ledil.com/installation_guide

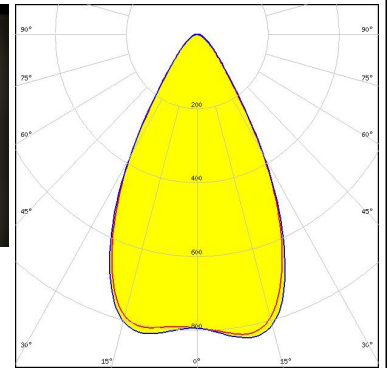
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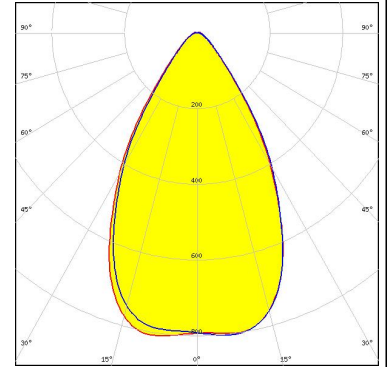
LED QUICK FLUX 2x6 LED XG xxx G7+
 FWHM / FWTM 60.0° / 93.0°
 Efficiency 94 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



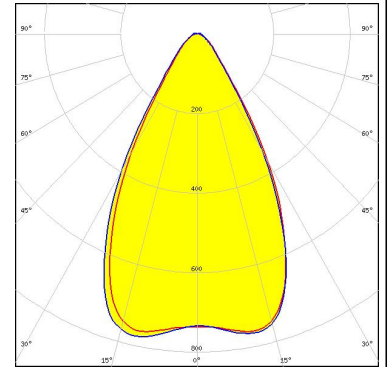
LED QUICK FLUX 2x6 LED XT xxx G5
 FWHM / FWTM 58.0° / 89.0°
 Efficiency 94 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED XM-L2
 FWHM / FWTM 61.0° / 93.0°
 Efficiency 94 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



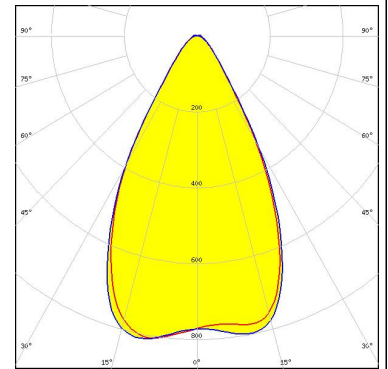
LED XP-G
 FWHM / FWTM 60.0° / 91.0°
 Efficiency 94 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (MEASURED):

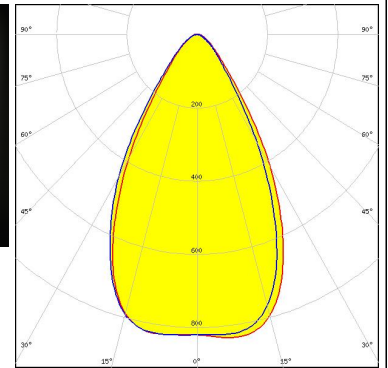
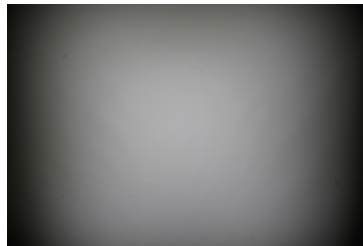
CREE LED

LED XP-G2
FWHM / FWTM 58.0° / 87.0°
Efficiency 93 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



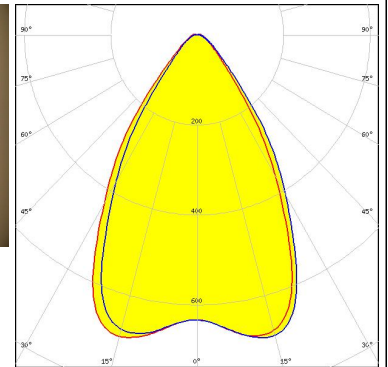
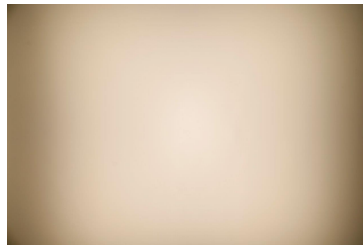
CREE LED

LED XP-G3
FWHM / FWTM 59.0° / 94.0°
Efficiency 94 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



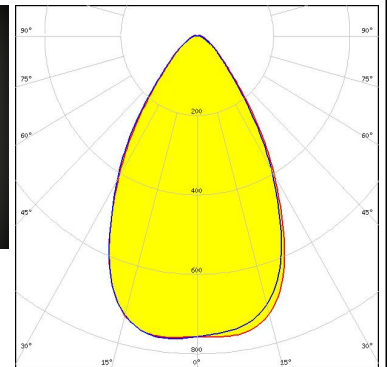
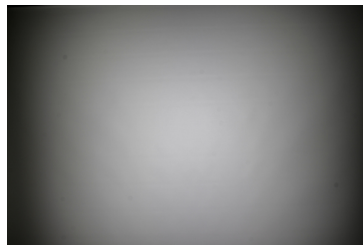
CREE LED

LED XP-L HD
FWHM / FWTM 67.0° / 99.0°
Efficiency 94 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



CREE LED

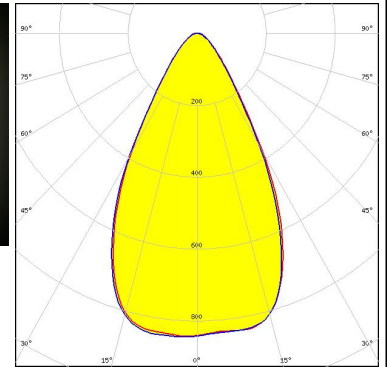
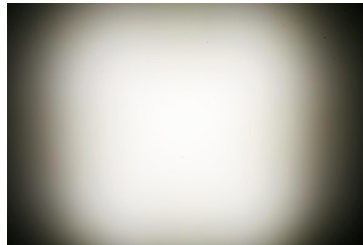
LED XP-L2
FWHM / FWTM 62.0° / 101.0°
Efficiency 94 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



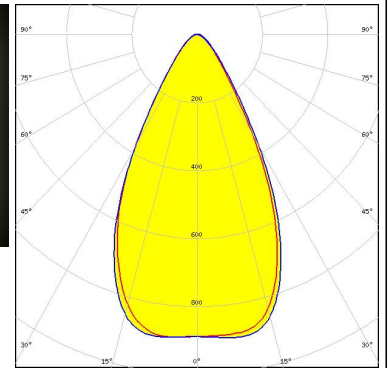
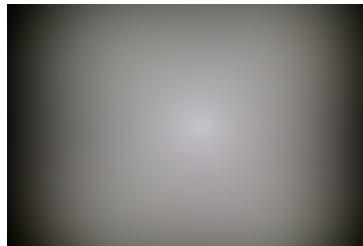
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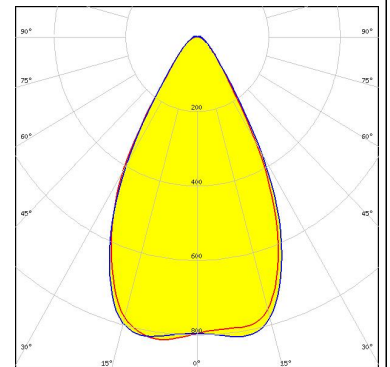
LED XT-E
FWHM / FWTM 58.0° / 93.0°
Efficiency 94 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



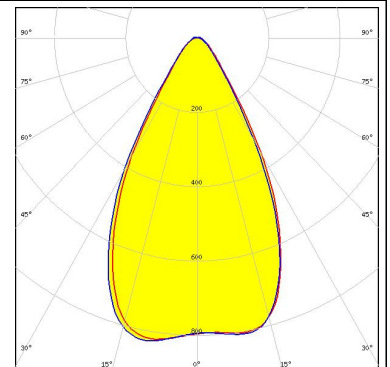
LED XT-E HE
FWHM / FWTM 56.0° / 89.0°
Efficiency 94 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED LUXEON R
FWHM / FWTM 58.0° / 89.0°
Efficiency 94 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



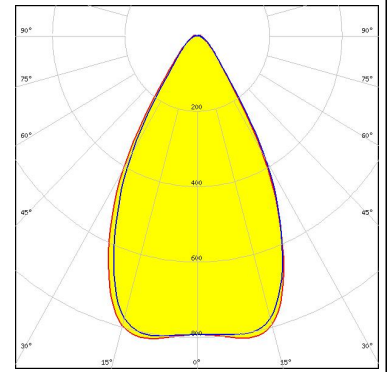
LED LUXEON Rebel ES
FWHM / FWTM 57.0° / 88.0°
Efficiency 94 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (MEASURED):

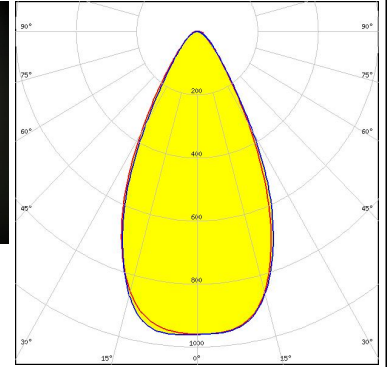
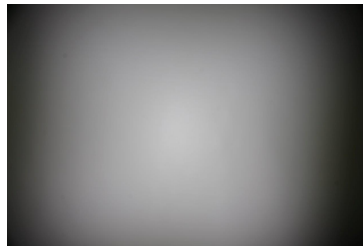
LUMILEDS

LED LUXEON T
FWHM / FWTM 60.0° / 89.0°
Efficiency 94 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



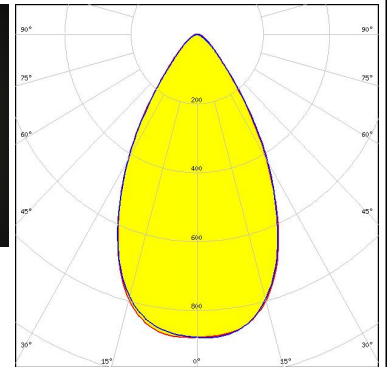
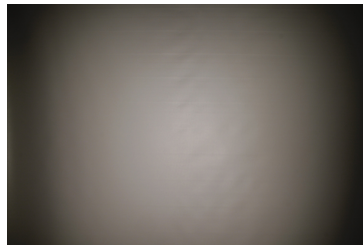
LUMILEDS

LED LUXEON TX
FWHM / FWTM 54.0° / 87.0°
Efficiency 94 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



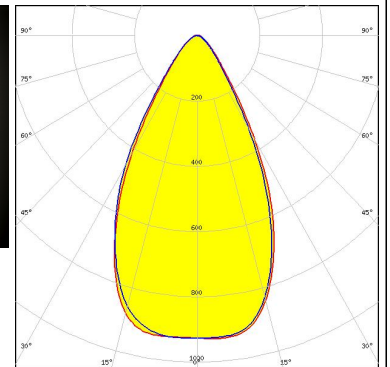
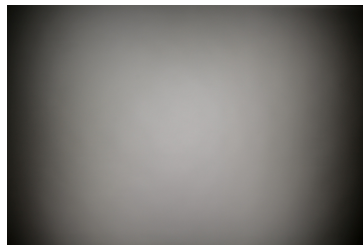
LUMILEDS

LED LUXEON V
FWHM / FWTM 59.0° / 93.0°
Efficiency 93 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LUMILEDS

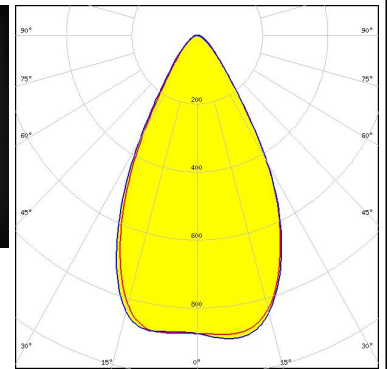
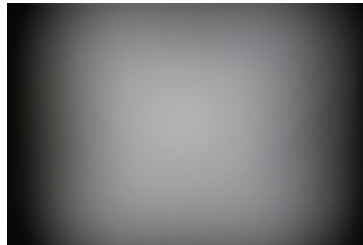
LED LUXEON V2
FWHM / FWTM 56.0° / 89.0°
Efficiency 94 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



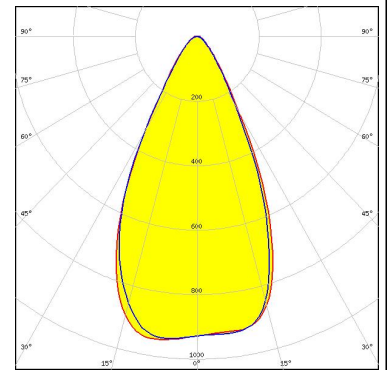
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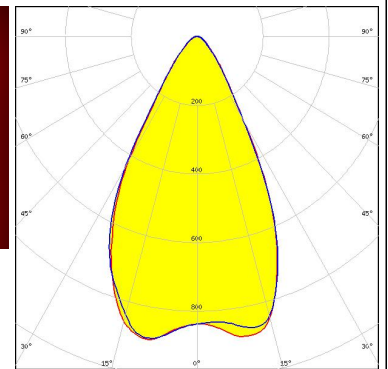
LED LUXEON XR-TX (L2T0-xyy012M)
 FWHM / FWTM 60.0° / 89.0°
 Efficiency 94 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



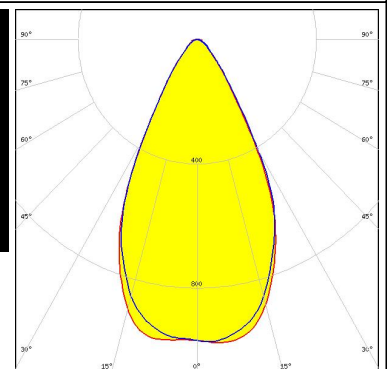
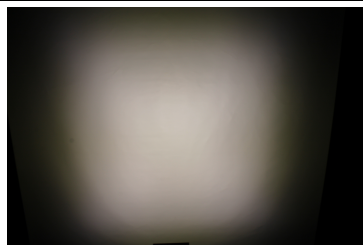
LED LUXEON Z ES
 FWHM / FWTM 52.0° / 83.0°
 Efficiency 94 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED SST-10-B130
 FWHM / FWTM 56.0° / 87.0°
 Efficiency 96 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour Deep Red
 Required components:



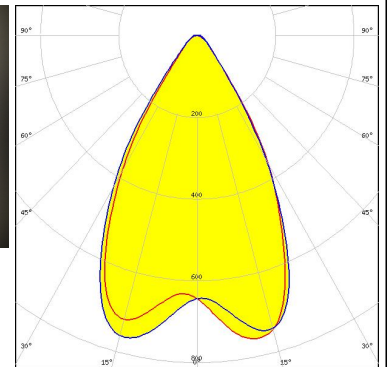
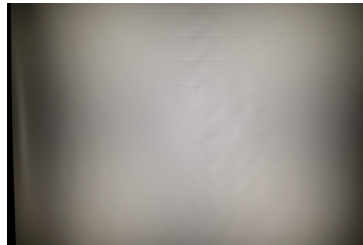
LED RecLED 146x45mm 2900lm 730 STRADA-IP-2x6 G1
 FWHM / FWTM 55.0° / 85.0°
 Efficiency 98 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



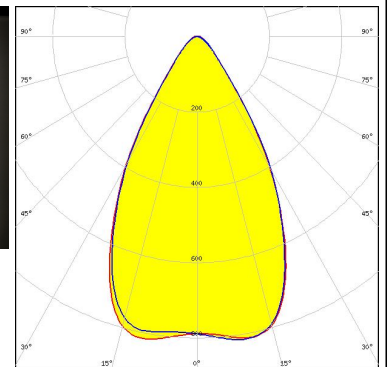
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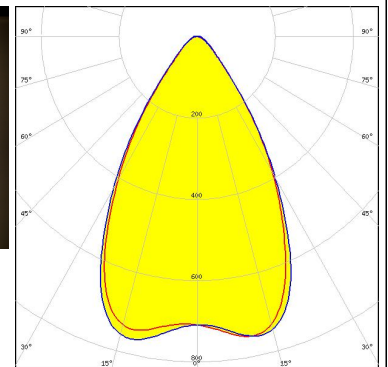
LED NVSW219D
 FWHM / FWTM 64.0° / 89.0°
 Efficiency 94 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



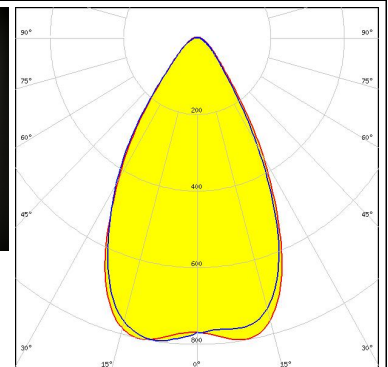
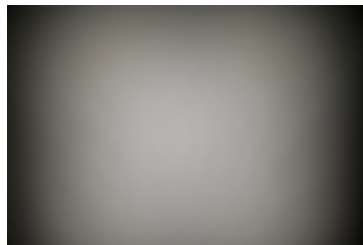
LED NVSW219F
 FWHM / FWTM 60.0° / 90.0°
 Efficiency 94 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED NVSW319B
 FWHM / FWTM 64.0° / 94.0°
 Efficiency 94 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



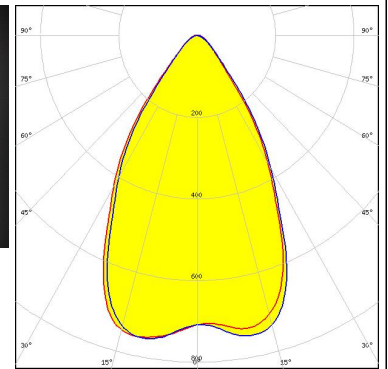
LED NVSW3x9A
 FWHM / FWTM 60.0° / 93.0°
 Efficiency 94 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



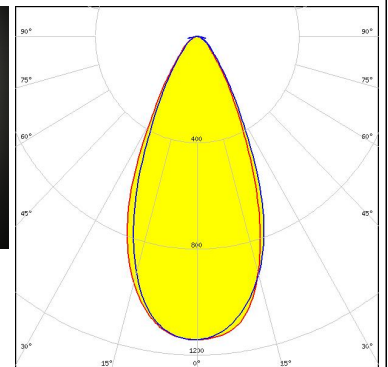
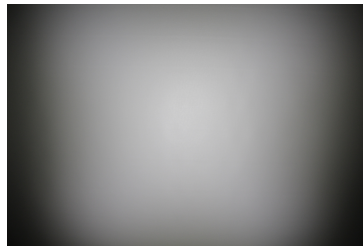
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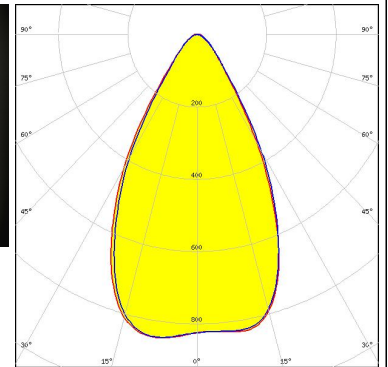
LED NVSW519A
FWHM / FWTM 61.0° / 92.0°
Efficiency 95 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



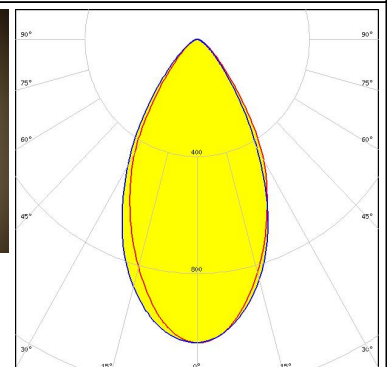
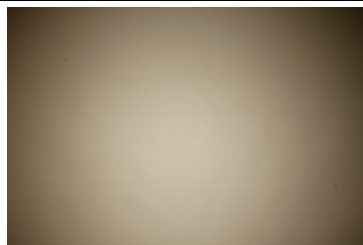
LED NVSxE21A
FWHM / FWTM 51.0° / 83.0°
Efficiency 94 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED NVSxx19B/NVSxx19C
FWHM / FWTM 58.0° / 89.0°
Efficiency 94 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



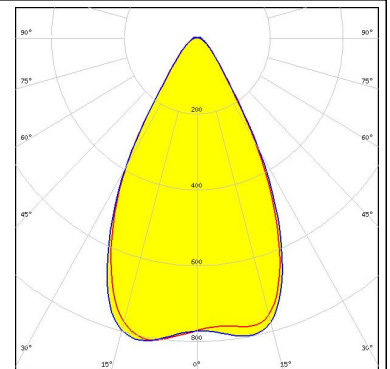
LED Duris S8
FWHM / FWTM 54.0° / 92.0°
Efficiency 94 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (MEASURED):

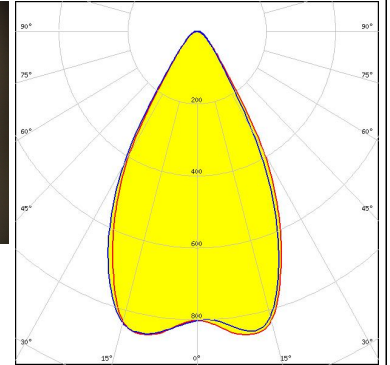
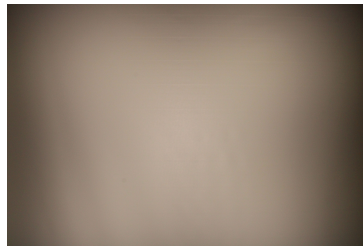
PHILIPS

LED Fortimo FastFlex LED 2x6 DP G4
 FWHM / FWTM 58.0° / 87.0°
 Efficiency 93 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



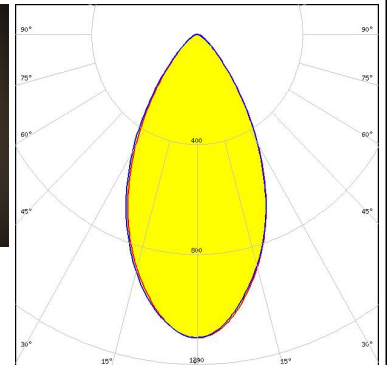
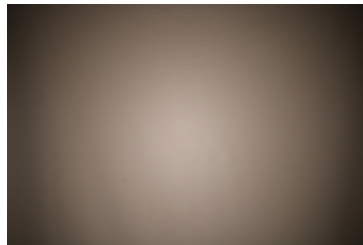
PHILIPS

LED Fortimo FastFlex LED 2x6 DP G5
 FWHM / FWTM 58.0° / 85.0°
 Efficiency 97 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



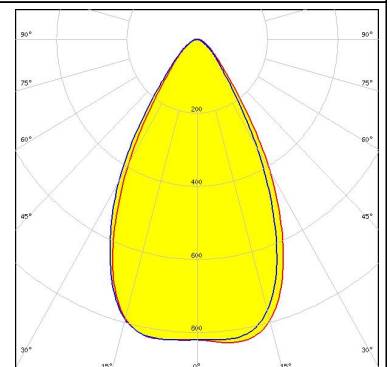
PHILIPS

LED Fortimo FastFlex LED 2x6 DP HE
 FWHM / FWTM 55.0° / 93.0°
 Efficiency 98 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHILIPS

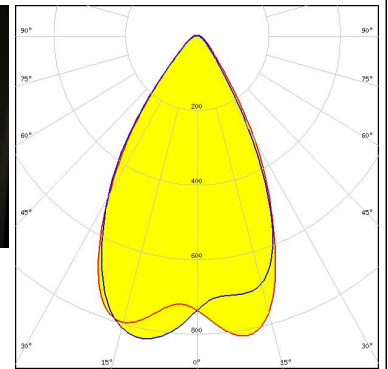
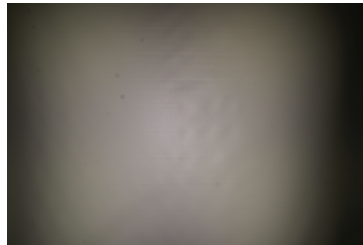
LED Fortimo FastFlex LED 2x6 DPX G4
 FWHM / FWTM 59.0° / 94.0°
 Efficiency 94 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (MEASURED):

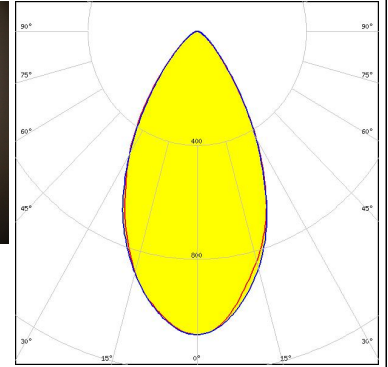
SAMSUNG

LED HiLOM RH12 (LH351C)
 FWHM / FWTM 61.0° / 89.0°
 Efficiency 94 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



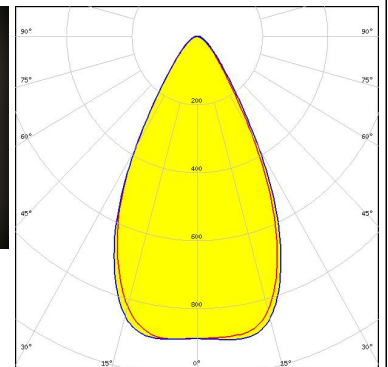
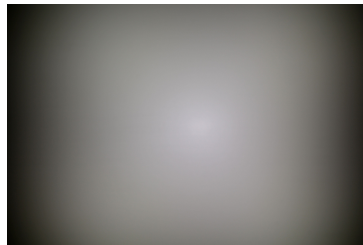
SAMSUNG

LED HiLOM RM12 ZP (LH502C)
 FWHM / FWTM 55.0° / 93.0°
 Efficiency 97 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



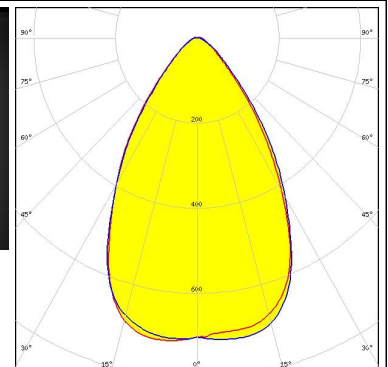
SCIOLUX

LED XLE-S22C4XTEHE (XT-E HE)
 FWHM / FWTM 56.0° / 89.0°
 Efficiency 94 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



SCIOLUX

LED XLE-S26XHP35 (XHP35 HD)
 FWHM / FWTM 65.0° / 102.0°
 Efficiency 94 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (MEASURED):

<p>SEOUL SEMICONDUCTOR</p> <p>LED 2x6 5050 module - SMJD-3625012F-XX</p> <p>FWHM / FWTM 57.0° / 95.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>SEOUL SEMICONDUCTOR</p> <p>LED SMJQ-D36W12Mx</p> <p>FWHM / FWTM 53.0° / 91.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>SEOUL SEMICONDUCTOR</p> <p>LED SMJQ-D36W12Px</p> <p>FWHM / FWTM 58.0° / 95.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 0.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>SEOUL SEMICONDUCTOR</p> <p>LED Z5M1/Z5M2</p> <p>FWHM / FWTM 59.0° / 87.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 0.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

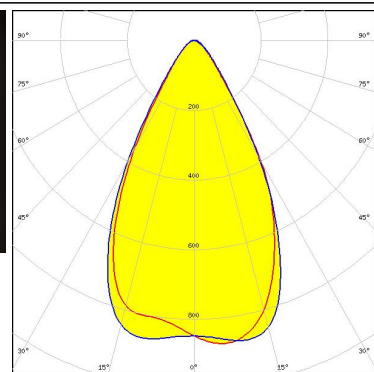
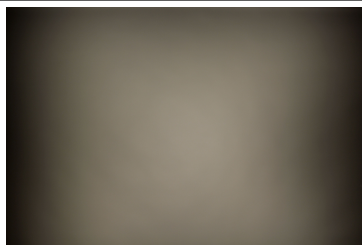
PHOTOMETRIC DATA (MEASURED):

<p>SEOUL SEOUL SEMICONDUCTOR</p> <p>LED Z5M3</p> <p>FWHM / FWTM 59.0° / 93.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 0.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>SEOUL SEOUL SEMICONDUCTOR</p> <p>LED Z8Y22</p> <p>FWHM / FWTM 53.0° / 91.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>SEOUL SEOUL SEMICONDUCTOR</p> <p>LED Z8Y22P</p> <p>FWHM / FWTM 57.0° / 95.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 0.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>TOSHIBA Leading Innovation >>></p> <p>LED TL1L4</p> <p>FWHM / FWTM 56.0° / 85.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

PHOTOMETRIC DATA (MEASURED):

TRIDONIC

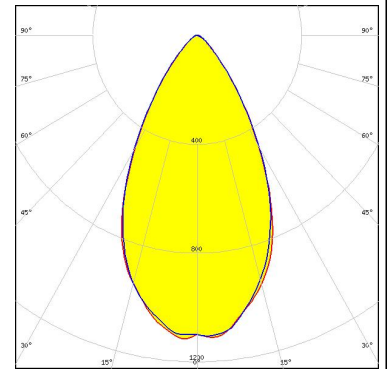
LED RLE 2x6 3000lm HP EXC2 OTD
 FWHM / FWTM 57.0° / 87.0°
 Efficiency 94 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



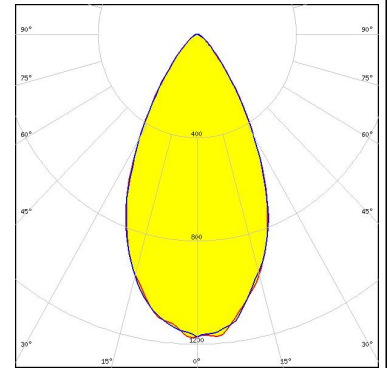
PHOTOMETRIC DATA (SIMULATED):



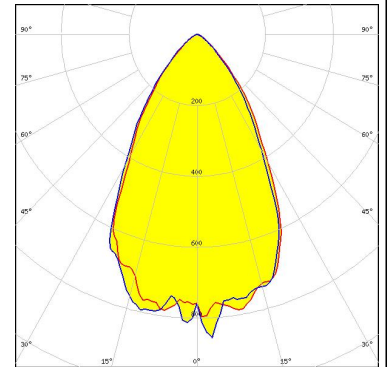
LED J Series 5050 Round LES
 FWHM / FWTM 55.0° / 86.0°
 Efficiency 94 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



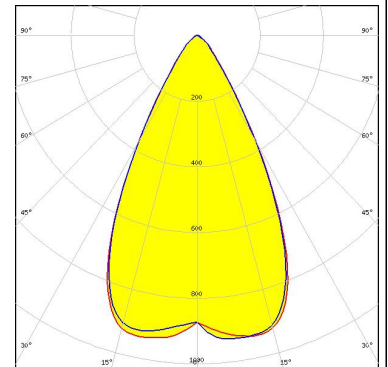
LED J Series 5050 Square LES 6V
 FWHM / FWTM 54.0° / 88.0°
 Efficiency 97 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED MHB-A/B
 FWHM / FWTM 60.0° / 96.0°
 Efficiency 91 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



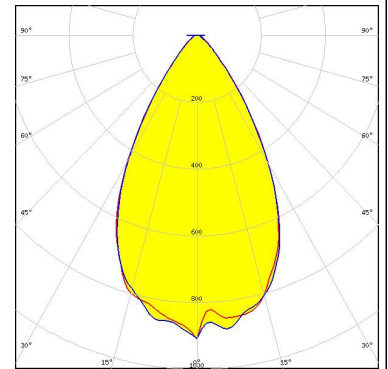
LED XB-D
 FWHM / FWTM 52.0° / 80.0°
 Efficiency 90 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



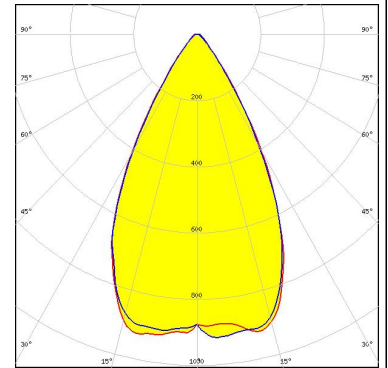
PHOTOMETRIC DATA (SIMULATED):



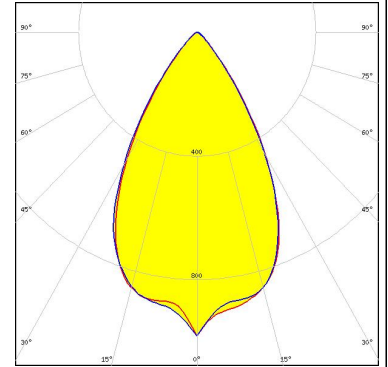
LED XHP35 HD
FWHM / FWTM 60.0° / 92.0°
Efficiency 94 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



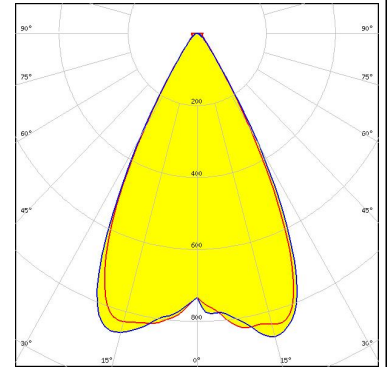
LED XHP35 HI
FWHM / FWTM 57.0° / 82.0°
Efficiency 94 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED XM-L
FWHM / FWTM 57.0° / 85.0°
Efficiency 93 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



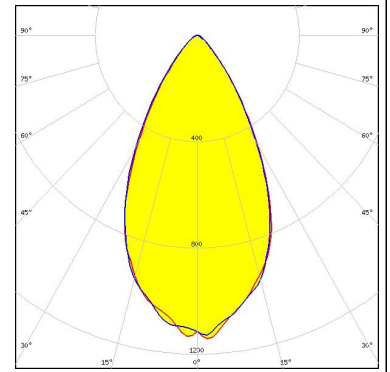
LED XP-E2
FWHM / FWTM 56.0° / 76.0°
Efficiency 94 %
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (SIMULATED):

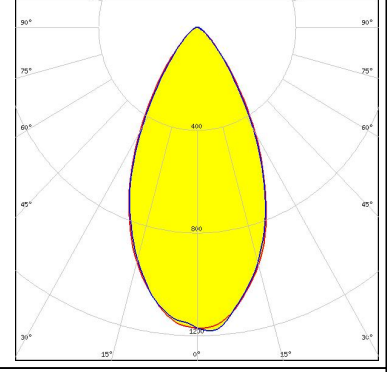
LUMILEDS

LED LUXEON 5050 Round LES
 FWHM / FWTM 54.0° / 88.0°
 Efficiency 95 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



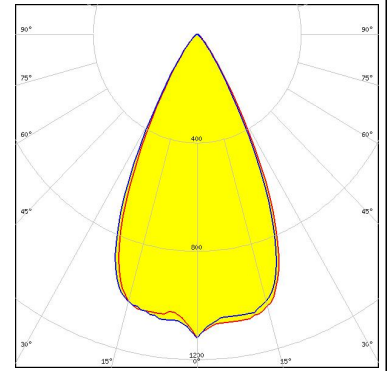
LUMILEDS

LED LUXEON 5050 Square LES
 FWHM / FWTM 52.0° / 89.0°
 Efficiency 97 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



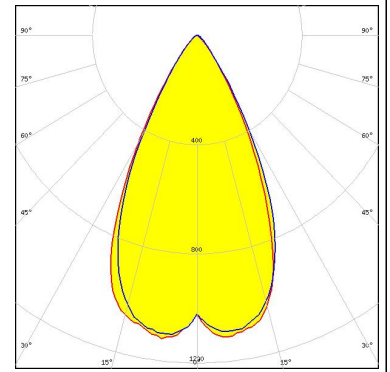
LUMILEDS

LED LUXEON Rebel
 FWHM / FWTM 50.0° / 70.0°
 Efficiency 93 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



NICHIA

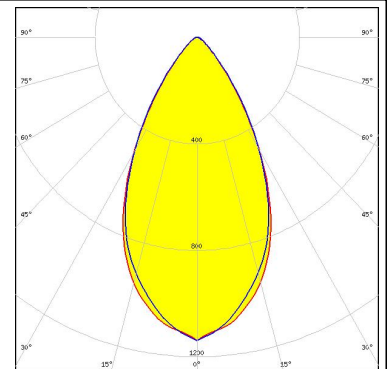
LED NF2x757A
 FWHM / FWTM 50.0° / 76.0°
 Efficiency 93 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



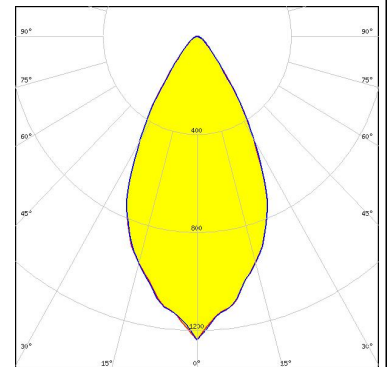
PHOTOMETRIC DATA (SIMULATED):



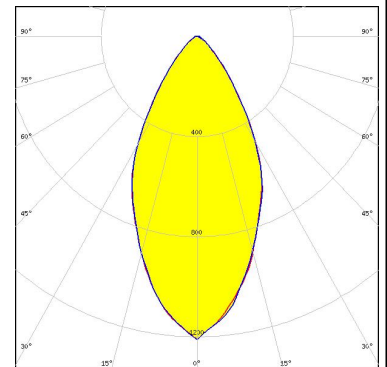
LED NFMW48xA
FWHM / FWTM 55.0° / 91.0°
Efficiency 97 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



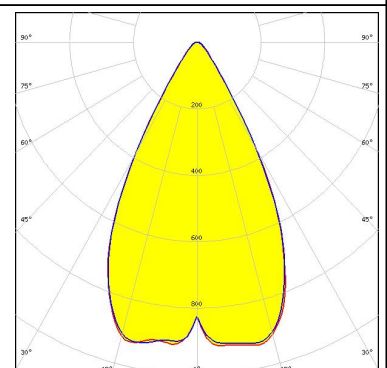
LED NV4WB35AM
FWHM / FWTM 54.0° / 84.0°
Efficiency 97 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED NVSxE21A
FWHM / FWTM 52.0° / 90.0°
Efficiency 95 %
Peak intensity 1.2 cd/lm
LEDs/each optic 4
Light colour White
Required components:



LED PrevaLED Brick HP IP 2x6
FWHM / FWTM 56.0° / 80.0°
Efficiency 96 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:

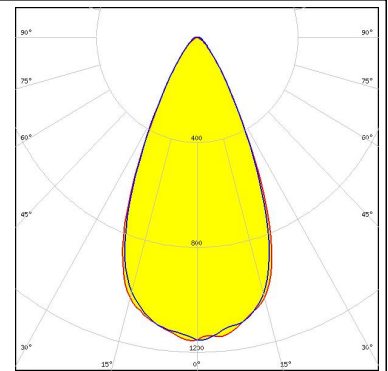


PHOTOMETRIC DATA (SIMULATED):

OSRAM

Opto Semiconductors

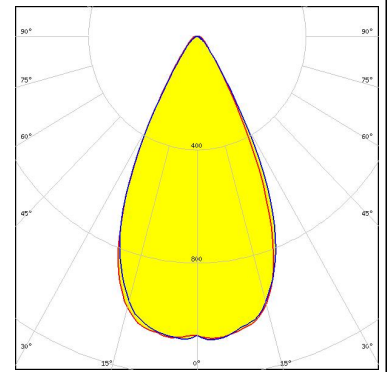
LED OSCONIQ P 3030
FWHM / FWTM 50.0° / 80.0°
Efficiency 94 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM

Opto Semiconductors

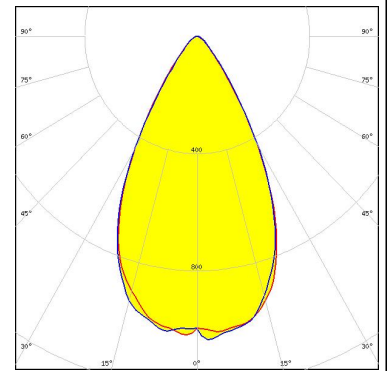
LED OSCONIQ P 3737 (2W version)
FWHM / FWTM 57.0° / 79.0°
Efficiency 94 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM

Opto Semiconductors

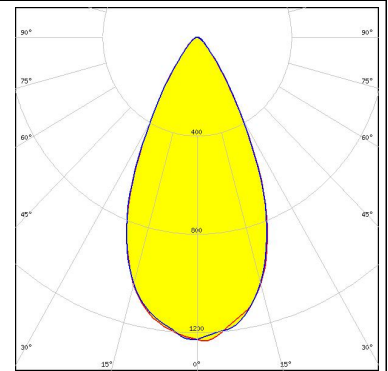
LED OSCONIQ P 3737 (3W version)
FWHM / FWTM 56.0° / 84.0°
Efficiency 94 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM

Opto Semiconductors

LED OSCONIQ P 3737 Flat
FWHM / FWTM 52.0° / 80.0°
Efficiency 97 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:

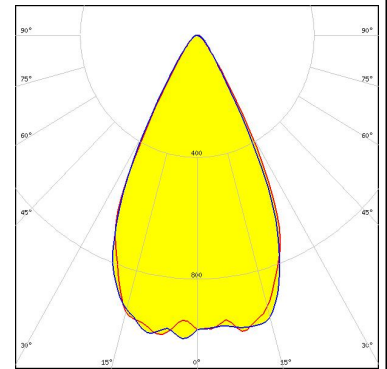


PHOTOMETRIC DATA (SIMULATED):

OSRAM

Opto Semiconductors

LED OSLON Square CSSRM2/CSSRM3
 FWHM / FWTM 56.0° / 78.0°
 Efficiency 94 %
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM

Opto Semiconductors

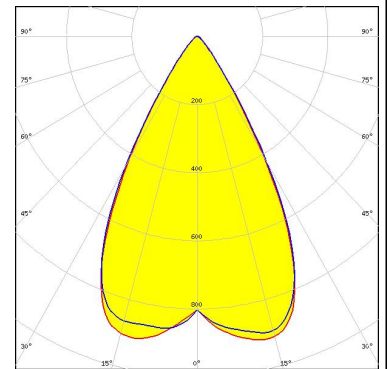
LED OSLON Square EC
 FWHM / FWTM 56.0° / 70.0°
 Efficiency 93 %
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM

Opto Semiconductors

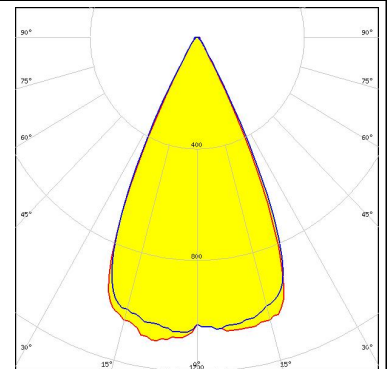
LED OSLON Square PC
 FWHM / FWTM 56.0° / 70.0°
 Efficiency 93 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM

Opto Semiconductors

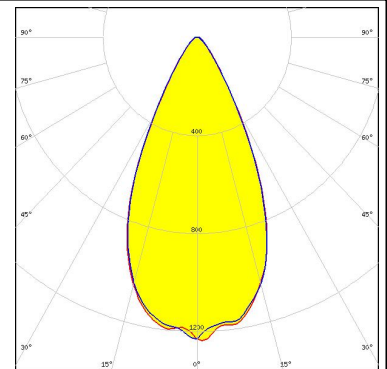
LED OSLON SSL 80
 FWHM / FWTM 52.0° / 69.0°
 Efficiency 94 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (SIMULATED):

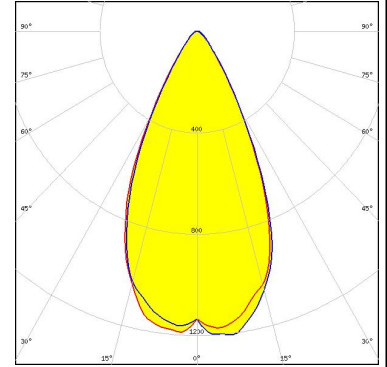
SAMSUNG

LED LH181B
FWHM / FWTM 50.0° / 78.0°
Efficiency 96 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



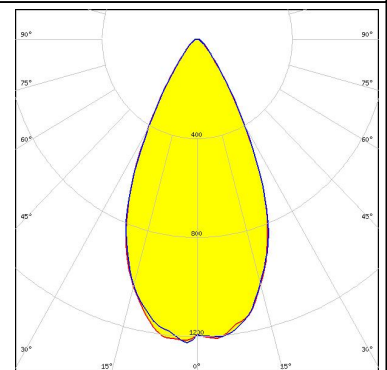
SAMSUNG

LED LH181B
FWHM / FWTM 54.0° / 80.0°
Efficiency 94 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



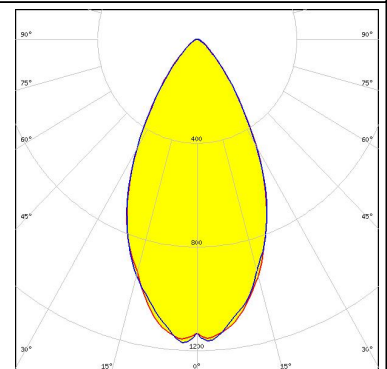
SAMSUNG

LED LH231B
FWHM / FWTM 52.0° / 80.0°
Efficiency 97 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



SAMSUNG

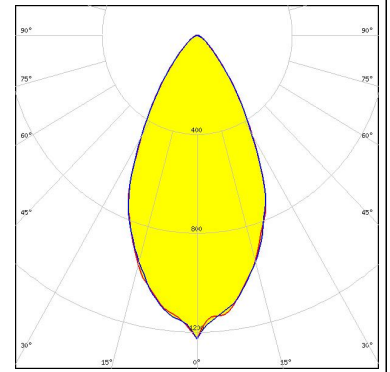
LED LH502C
FWHM / FWTM 54.0° / 90.0°
Efficiency 97 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (SIMULATED):

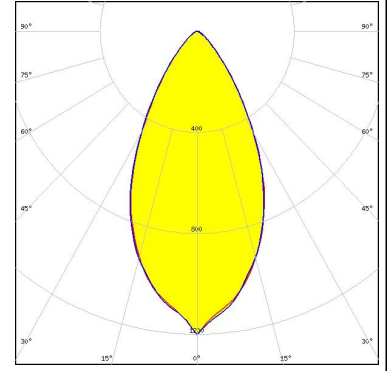
SAMSUNG

LED LH502D
FWHM / FWTM 52.0° / 88.0°
Efficiency 97 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



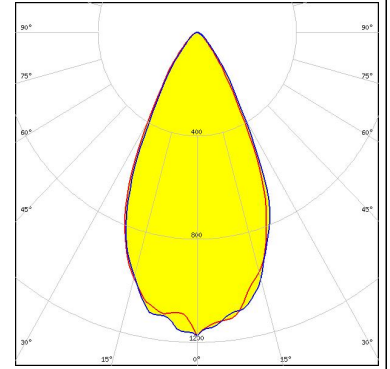
SAMSUNG

LED LH508B
FWHM / FWTM 52.0° / 89.0°
Efficiency 94 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



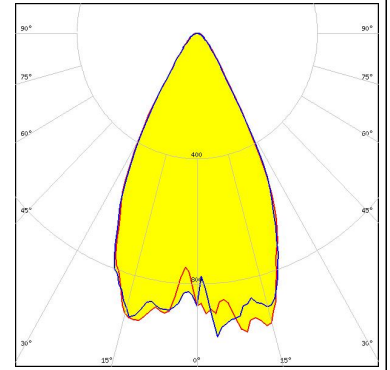
SEOUL SEMICONDUCTOR

LED Acrich MJT 4040
FWHM / FWTM 52.0° / 82.0°
Efficiency 93 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:

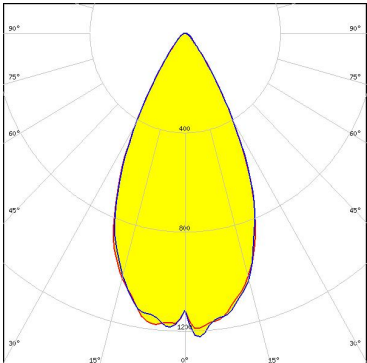
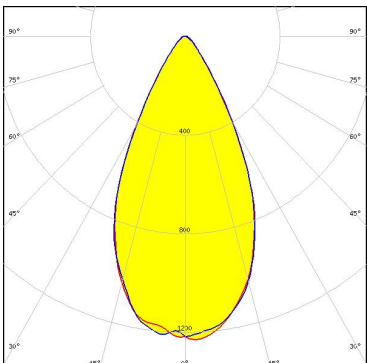
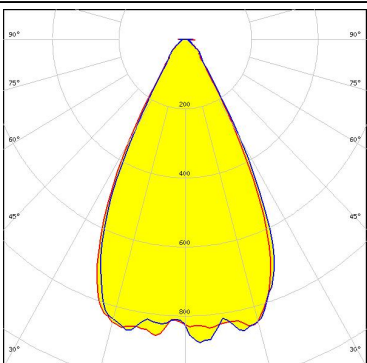
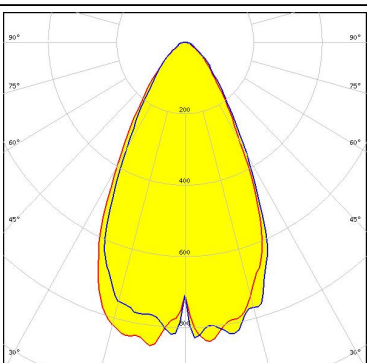


SEOUL SEMICONDUCTOR

LED Z5M
FWHM / FWTM 50.0°
Efficiency 94 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (SIMULATED):

<p>SEOUL SEMICONDUCTOR</p> <p>LED Z5M4</p> <p>FWHM / FWTM 52.0° / 78.0°</p> <p>Efficiency 97 %</p> <p>Peak intensity 1.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>SEOUL SEMICONDUCTOR</p> <p>LED Z8Y22T</p> <p>FWHM / FWTM 53.0° / 79.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 1.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>TOSHIBA Leading Innovation >>></p> <p>LED TL1L2</p> <p>FWHM / FWTM 55.0° / 79.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>TOSHIBA Leading Innovation >>></p> <p>LED TL1L3</p> <p>FWHM / FWTM 54.0°</p> <p>Efficiency 89 %</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	

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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