

HB-IP-2X6-O

~30° + 115° oval beam

TECHNICAL SPECIFICATIONS:

Dimensions	173.0 x 71.4 mm
Height	13.1 mm
Fastening	screw
ROHS compliant	yes 

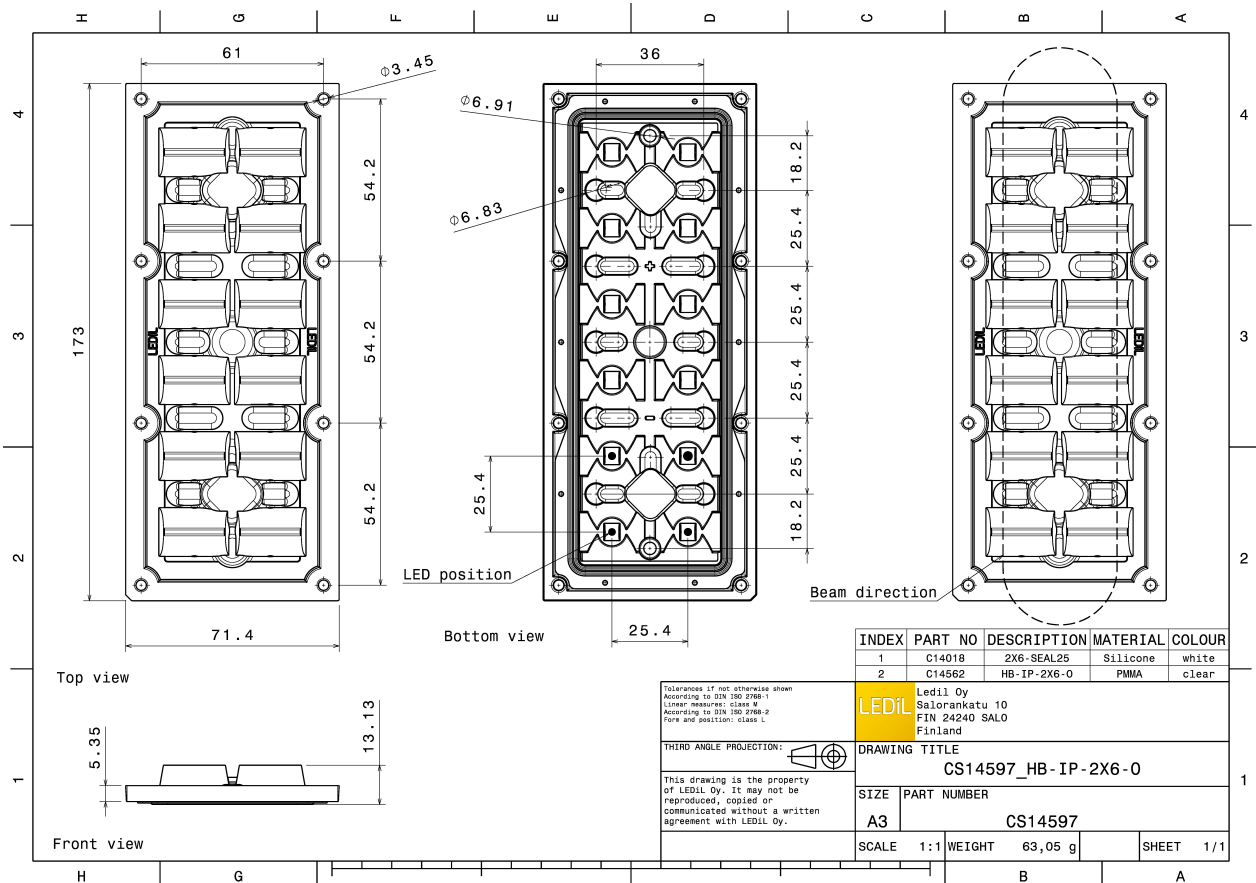
MATERIAL SPECIFICATIONS:

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					

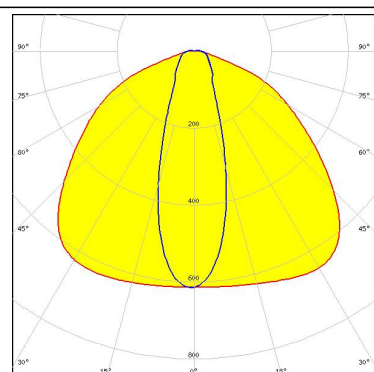
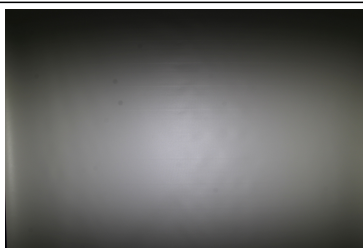




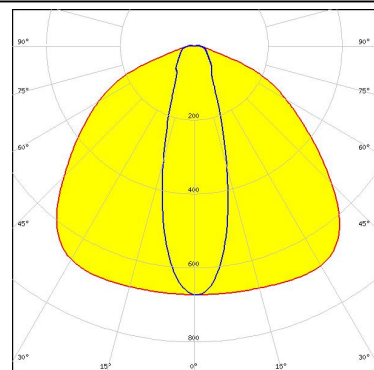
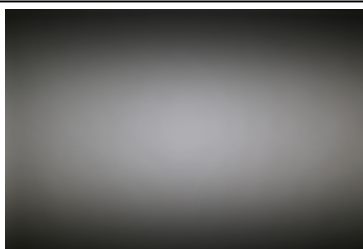
PHOTOMETRIC DATA (MEASURED):



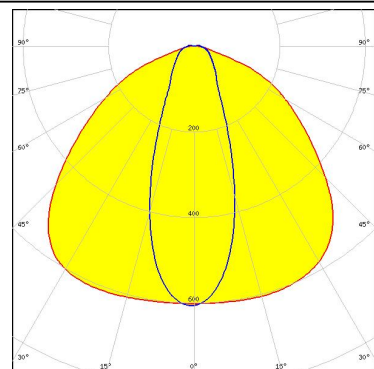
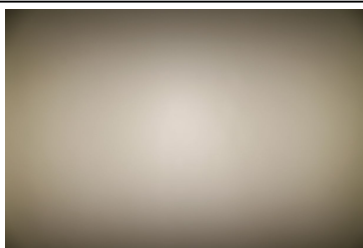
LED QUICK FLUX 2x6 LED XG xxx G7+
FWHM 116.0 + 32.0°
Efficiency 91 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



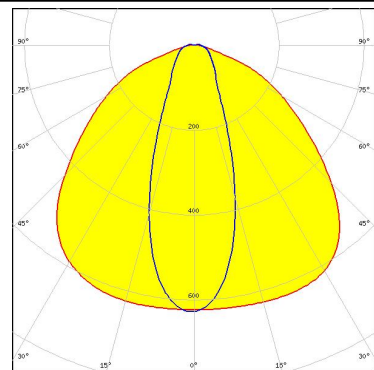
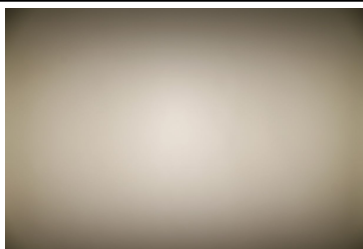
LED QUICK FLUX 2x6 LED XT xxx G5
FWHM 113.0 + 30.0°
Efficiency 90 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



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



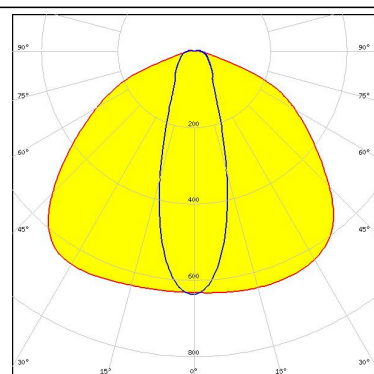
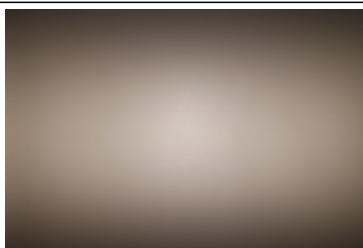
LED XM-L2
FWHM 36.0 + 108.0°
Efficiency 91 %
Peak intensity 0.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:



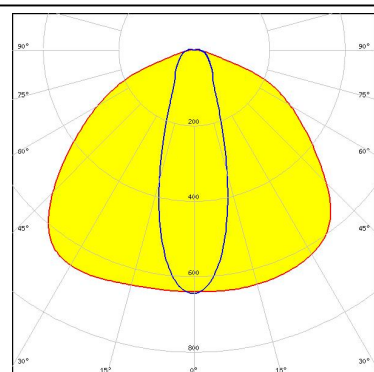
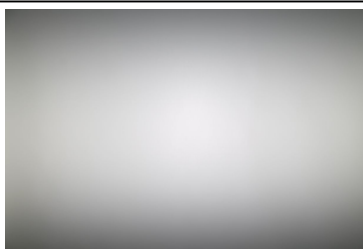
PHOTOMETRIC DATA (MEASURED):



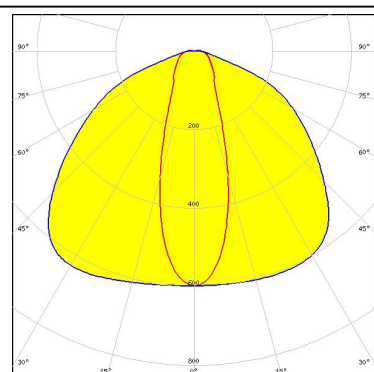
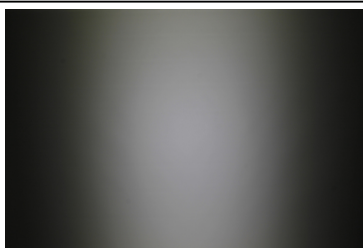
LED XP-G
FWHM 31.0 + 117.0°
Efficiency 91 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



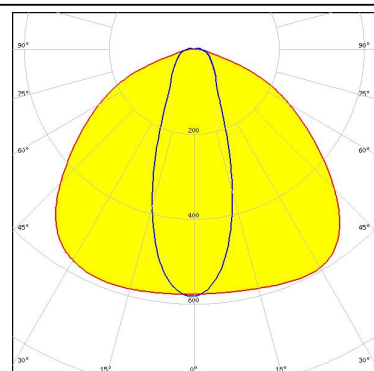
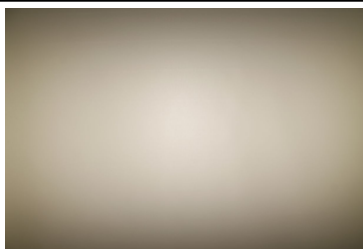
LED XP-G2
FWHM 32.0 + 116.0°
Efficiency 92 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



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



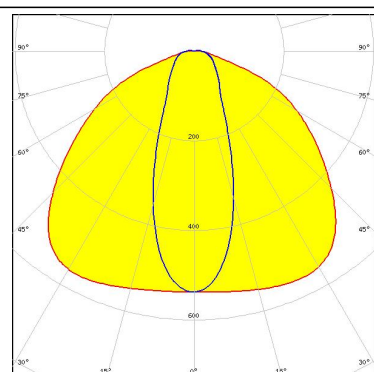
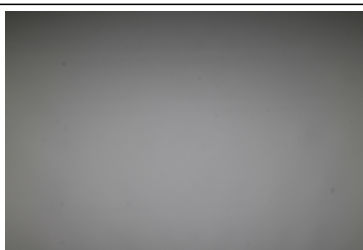
LED XP-L HD
FWHM 36.0 + 115.0°
Efficiency 91 %
Peak intensity 0.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:



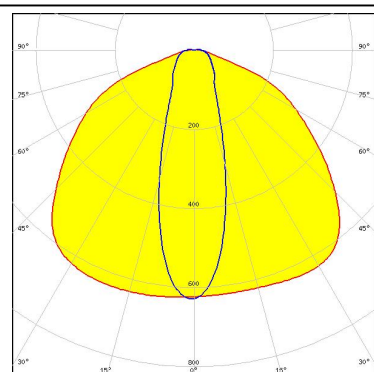
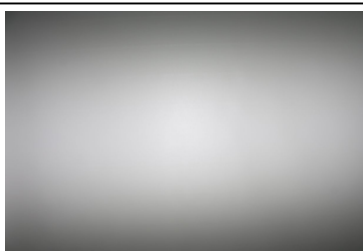
PHOTOMETRIC DATA (MEASURED):



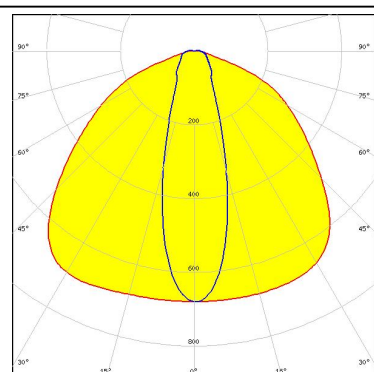
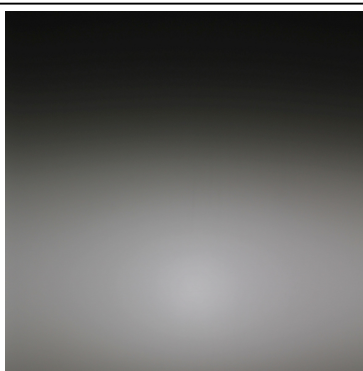
LED XP-L2
FWHM 118.0 + 38.0°
Efficiency 92 %
Peak intensity 0.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:



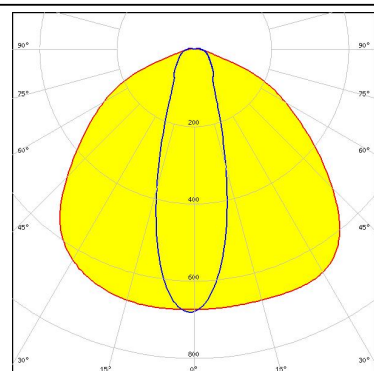
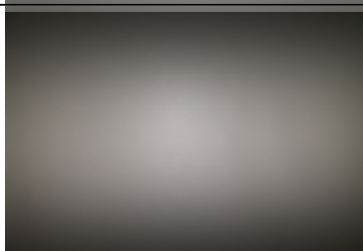
LED XT-E
FWHM 31.0 + 119.0°
Efficiency 92 %
Peak intensity 0.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:



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



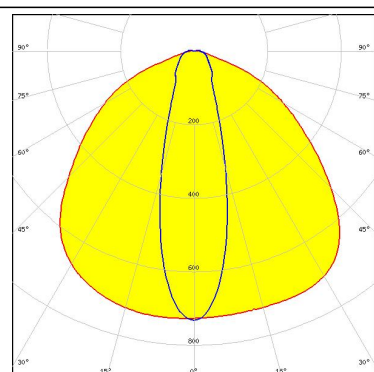
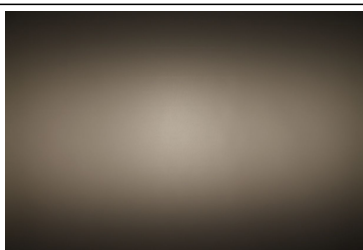
LED LUXEON R
FWHM 30.0 + 109.0°
Efficiency 91 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (MEASURED):

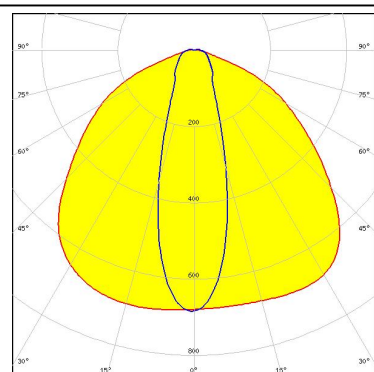
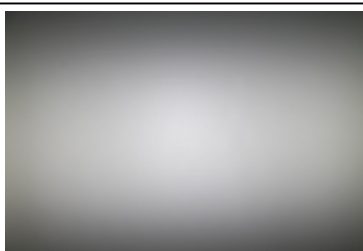
LUMILEDS

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



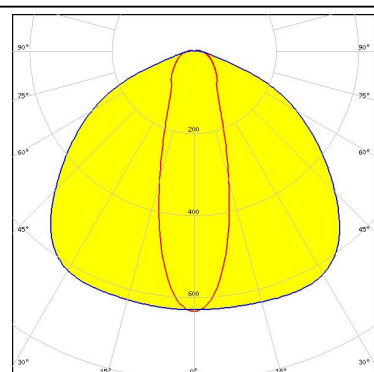
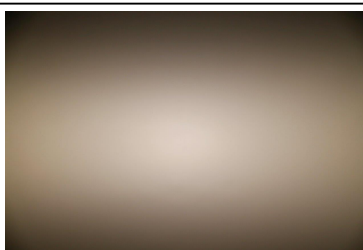
LUMILEDS

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



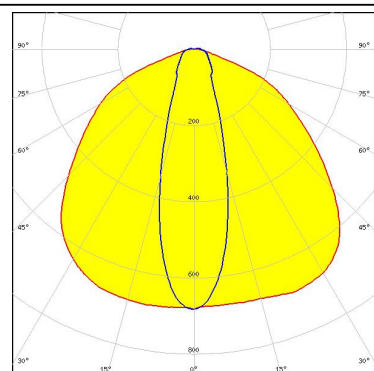
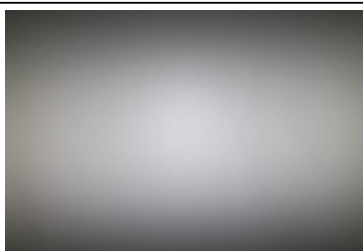
LUMILEDS

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



LUMILEDS

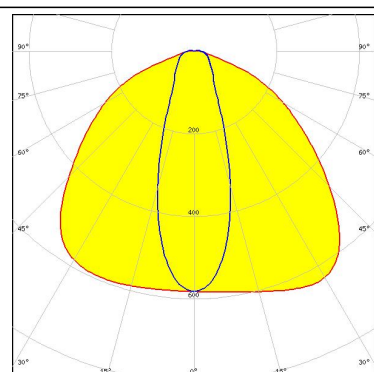
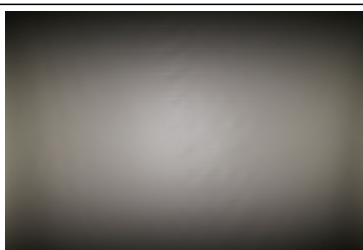
LED LUXEON TX
FWHM 30.0 + 111.0°
Efficiency 90 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (MEASURED):

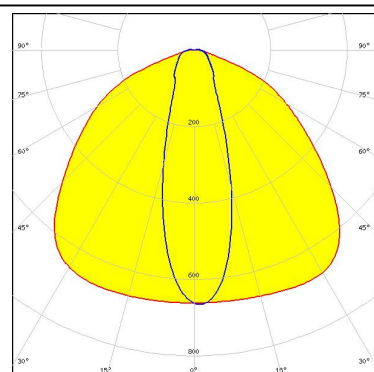
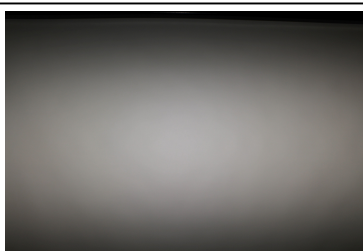
LUMILEDS

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



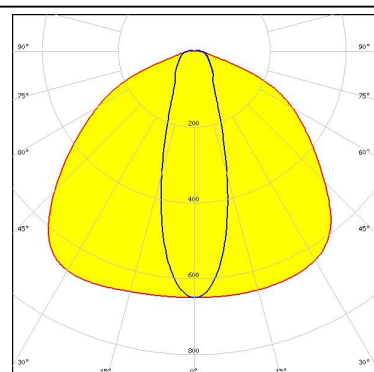
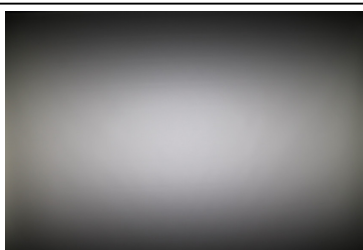
LUMILEDS

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



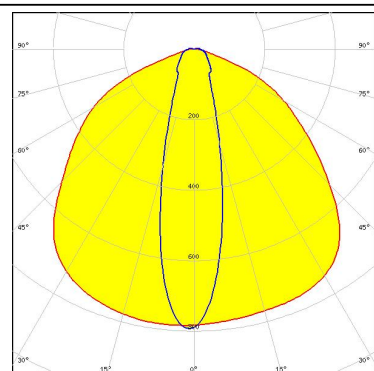
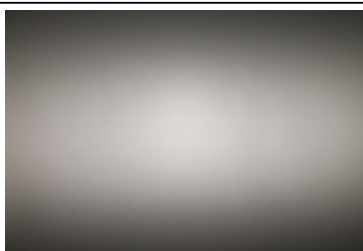
LUMILEDS

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



LUMILEDS

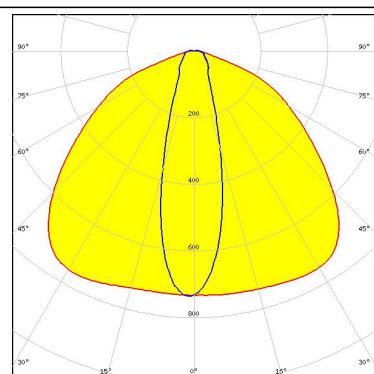
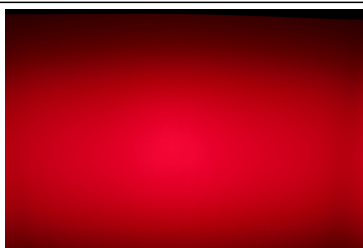
LED LUXEON Z ES
FWHM 25.0 + 108.0°
Efficiency 90 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



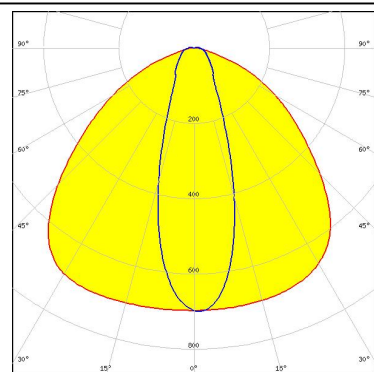
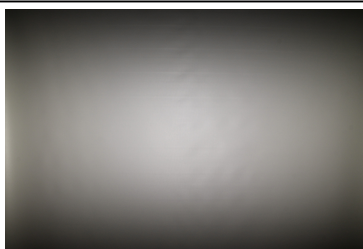
PHOTOMETRIC DATA (MEASURED):



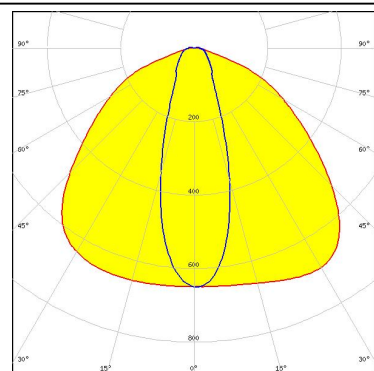
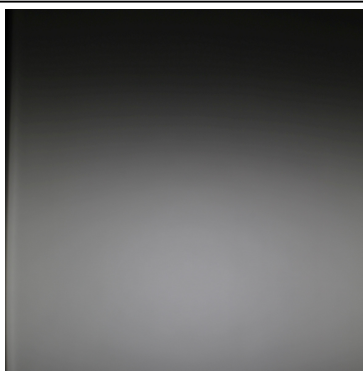
LED SST-10-B130
FWHM 114.0 + 28.0°
Efficiency 93 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour Deep Red
Required components:



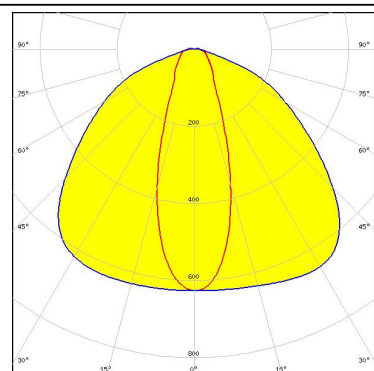
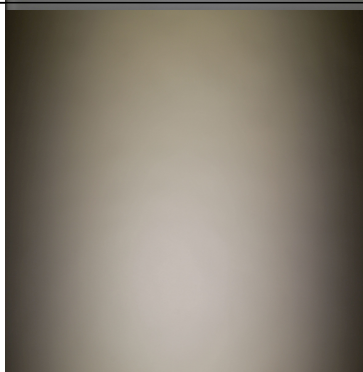
LED NVSW219D
FWHM 106.0 + 32.0°
Efficiency 92 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



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



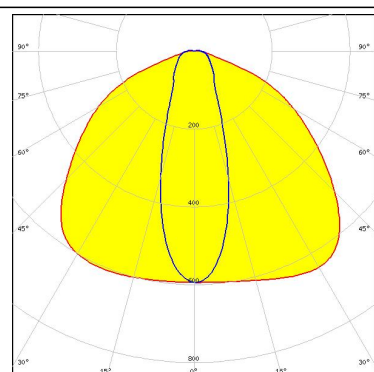
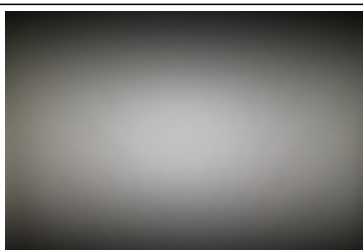
LED NVSW319B
FWHM 34.0 + 113.0°
Efficiency 92 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



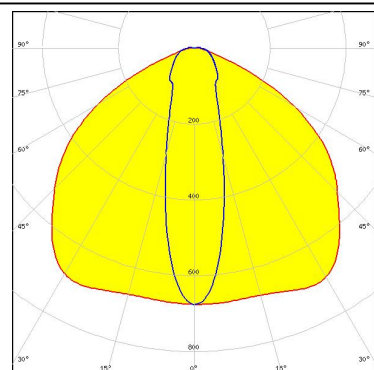
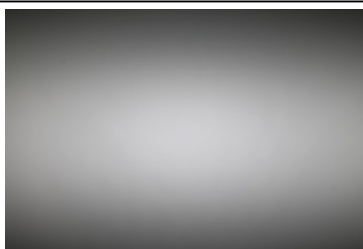
PHOTOMETRIC DATA (MEASURED):



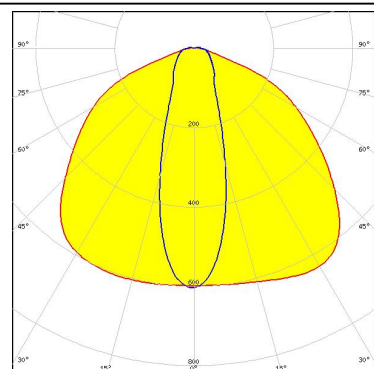
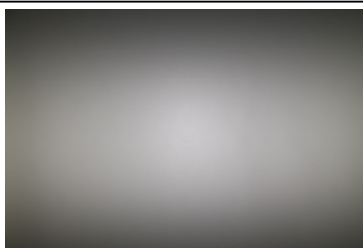
LED NVSW3x9A
 FWHM 119.0 + 33.0°
 Efficiency 92 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



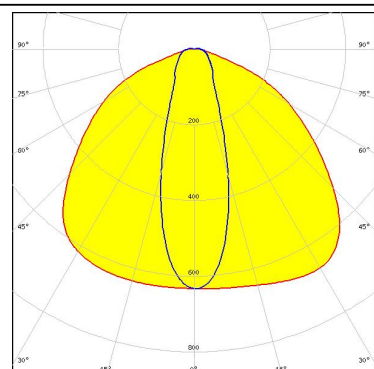
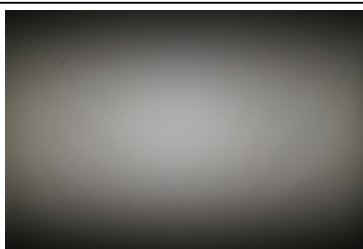
LED NVSxE21A
 FWHM 26.0 + 116.0°
 Efficiency 91 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



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



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

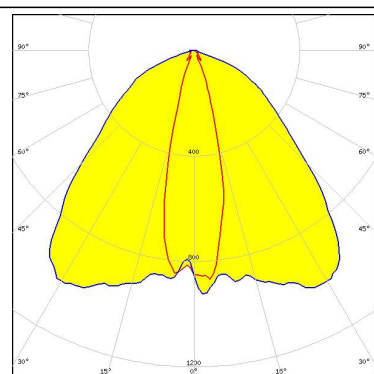
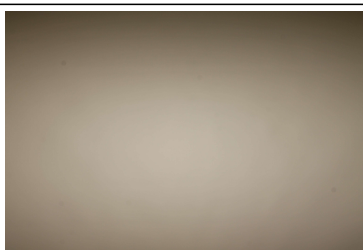


PHOTOMETRIC DATA (MEASURED):

OSRAM

Opto Semiconductors

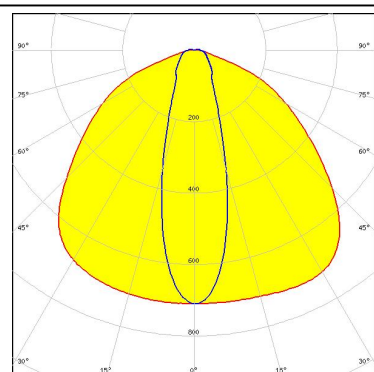
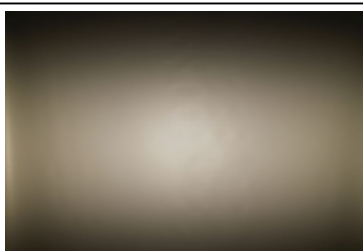
LED Duris S8
 FWHM 111.0 + 38.0°
 Efficiency 92 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM

Opto Semiconductors

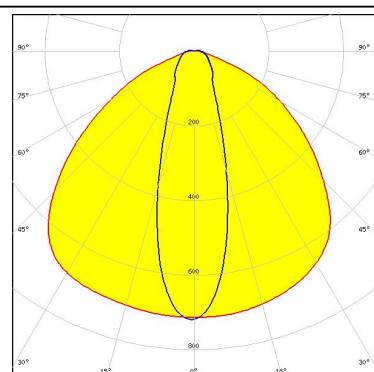
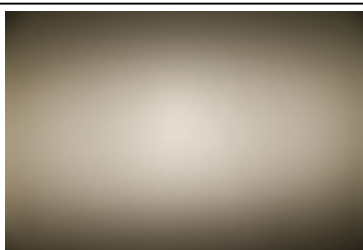
LED OSLOM Square CSSRM2/CSSRM3
 FWHM 110.0 + 29.0°
 Efficiency 92 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM

Opto Semiconductors

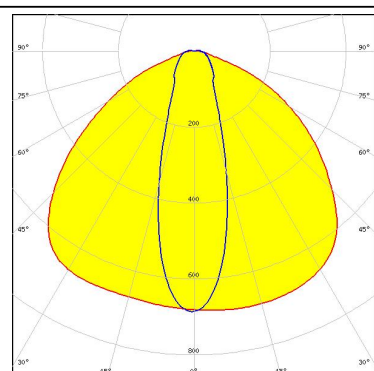
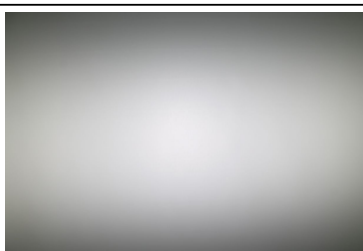
LED OSLOM Square EC
 FWHM 30.0 + 108.0°
 Efficiency 91 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM

Opto Semiconductors

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

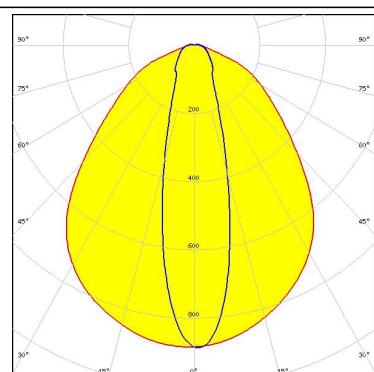
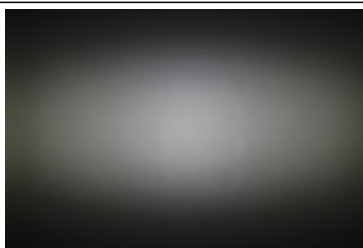


PHOTOMETRIC DATA (MEASURED):

OSRAM

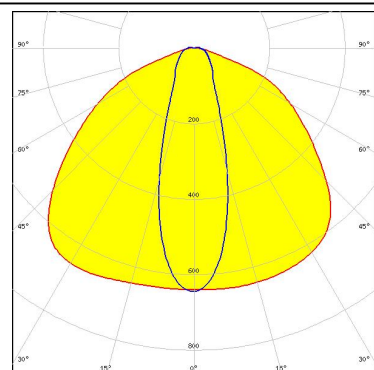
Opto Semiconductors

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



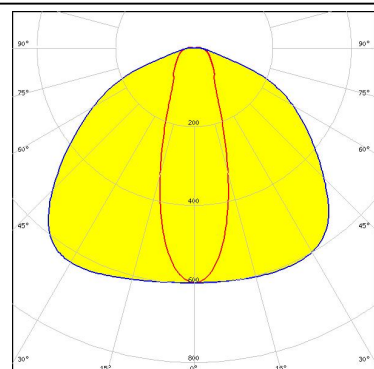
PHILIPS

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



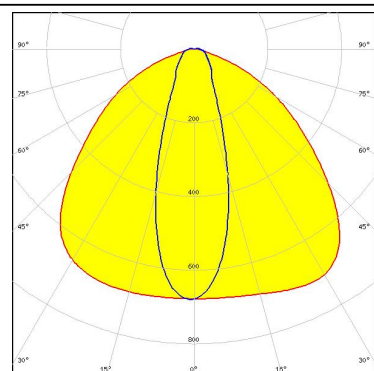
PHILIPS

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



SAMSUNG

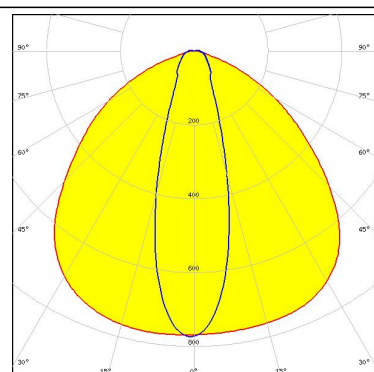
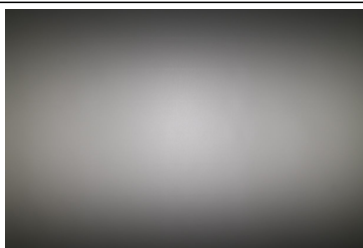
LED HiLOM RH12 (LH351C)
FWHM 107.0 + 32.0°
Efficiency 92 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (MEASURED):

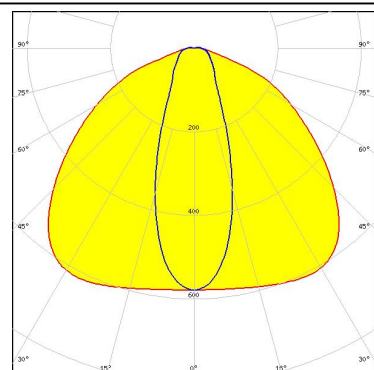
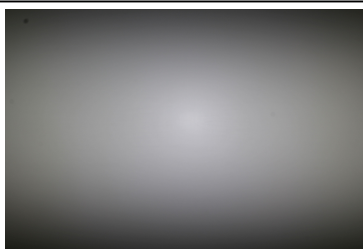
SAMSUNG

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



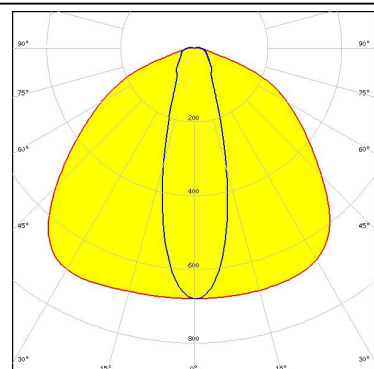
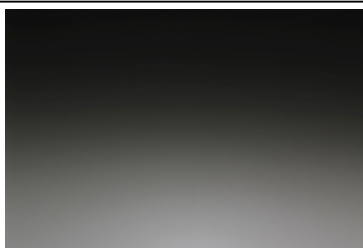
SCIOLUX

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



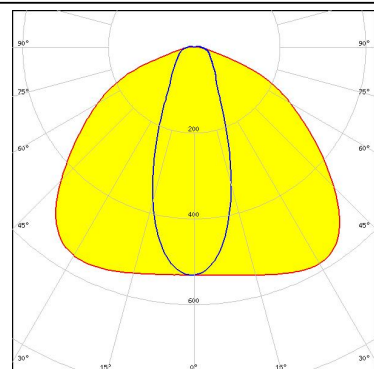
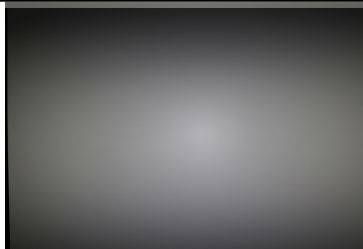
SCIOLUX

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



SCIOLUX

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



PHOTOMETRIC DATA (MEASURED):

SEOLUX SEOUL SEMICONDUCTOR LED SMJQ-D36W12Mx FWHM 30.0 + 119.0° Efficiency 91 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White Required components:		
SEOLUX SEOUL SEMICONDUCTOR LED SMJQ-D36W12Px FWHM 121.0 + 32.0° Efficiency 92 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White Required components:		
SEOLUX SEOUL SEMICONDUCTOR LED Z5M1/Z5M2 FWHM 29.0 + 105.0° Efficiency 90 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White Required components:		
SEOLUX SEOUL SEMICONDUCTOR LED Z5M3 FWHM 32.0 + 111.0° Efficiency 92 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White Required components:		

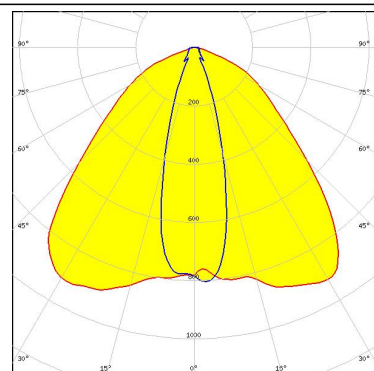
PHOTOMETRIC DATA (MEASURED):

SEOUL SEMICONDUCTOR LED Z8Y22 FWHM 30.0 + 119.0° Efficiency 91 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White Required components:		
SEOUL SEMICONDUCTOR LED Z8Y22P FWHM 122.0 + 32.0° Efficiency 92 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White Required components:		
TOSHIBA Leading Innovation >>> LED TL1L4 FWHM 29.0 + 107.0° Efficiency 87 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White Required components:		
TRIDONIC LED RLE 2x6 3000lm HP EXC2 OTD FWHM 108.0 + 29.0° Efficiency 92 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White Required components:		

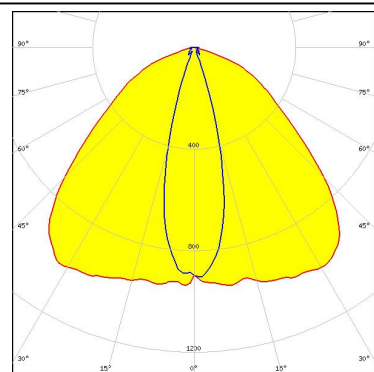
PHOTOMETRIC DATA (SIMULATED):



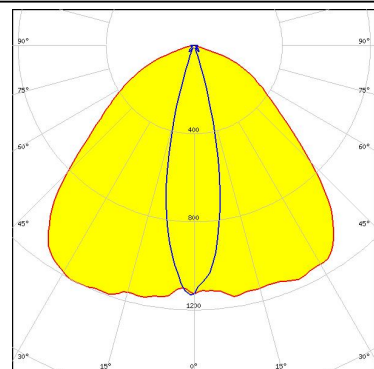
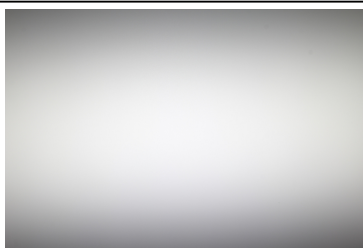
LED J Series 5050
 FWHM 29.0 + 96.0°
 Efficiency 94 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



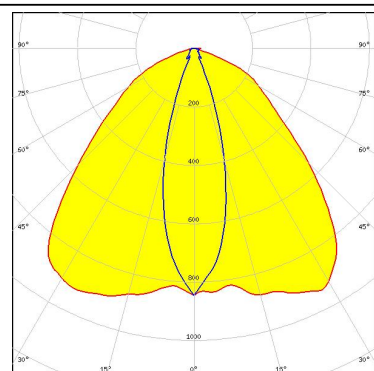
LED XP-G2 HE
 FWHM 103.0 + 28.0°
 Efficiency 94 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED H35C1 (LEMWA33)
 FWHM 24.0 + 99.0°
 Efficiency 94 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



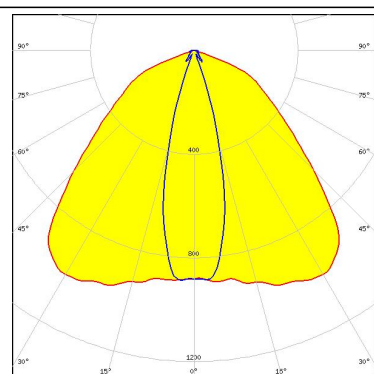
LED LUXEON 5050 Round LES
 FWHM 34.0 + 96.0°
 Efficiency 93 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



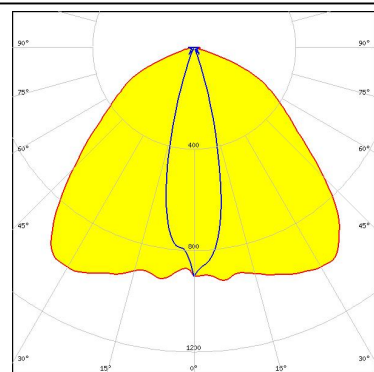
PHOTOMETRIC DATA (SIMULATED):



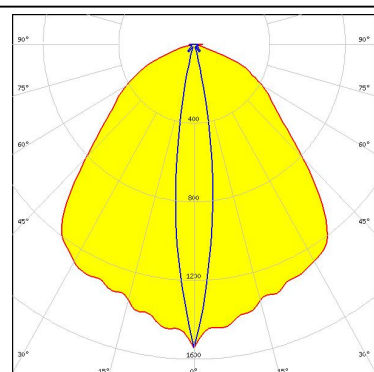
LED NV4WB35AM
 FWHM 100.0 + 28.0°
 Efficiency 95 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



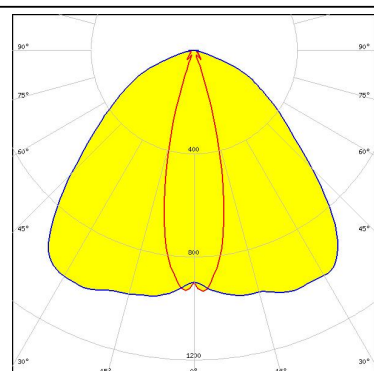
LED NVSW3x9A
 FWHM 103.0 + 25.0°
 Efficiency 91 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



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



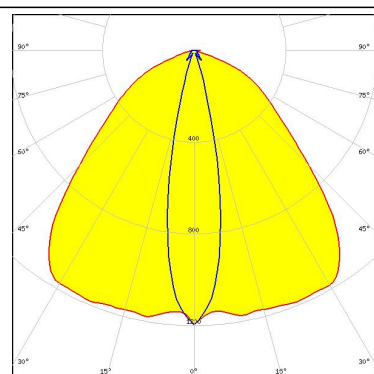
LED OSCONIQ P 3737 (3W version)
 FWHM 27.0 + 100.0°
 Efficiency 94 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (SIMULATED):

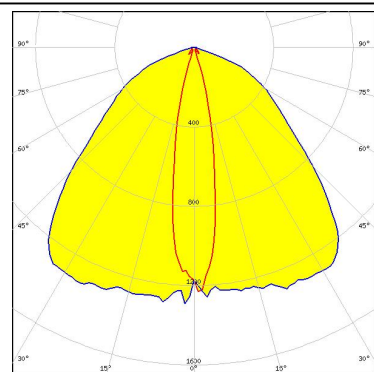
OSRAM
Opto Semiconductors

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



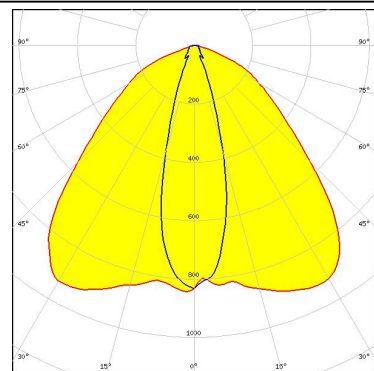
SEOUL
SEMICONDUCTOR

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



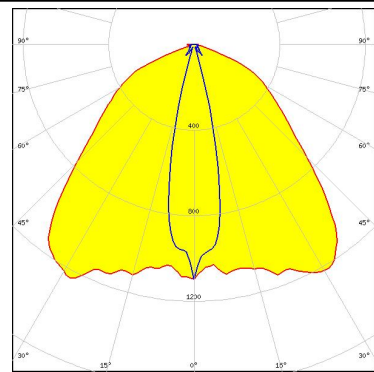
SEOUL
SEMICONDUCTOR

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



SEOUL
SEMICONDUCTOR

LED Z8Y22T
FWHM 97.0 + 21.0°
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.

PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

LEDiL Oy assumes neither warranty, nor guarantee nor any other liability of any kind for the contents and correctness of the provided data. The provided data has been generated with highest diligence but the provided data may in reality not represent the complete possible variation range of all intrinsic parameters. Therefore, in certain cases a deviation from the provided data could occur.

LEDiL Oy reserves the right to undertake technical changes of its products without further notification which could lead to changes in the provided data. LEDiL Oy assumes no liability of any kind for the possible deviation from any provided data or any other damage resulting from the usage of the provided data.

The user agrees to this disclaimer and user agreement with the download or usage of the provided files.

LEDiL Oy

Joensuunkatu 13
FI-24240 SALO
Finland

LEDiL Inc.

228 West Page Street
Suite D
Sycamore IL 60178
USA

Local sales and technical support

[www.ledil.com/
where_to_buy](http://www.ledil.com/where_to_buy)

Shipping locations

Salu, Finland
Hong Kong, China

Distribution Partners

[www.ledil.com/
where_to_buy](http://www.ledil.com/where_to_buy)