

HB-2X2-WWW

~100° wide beam

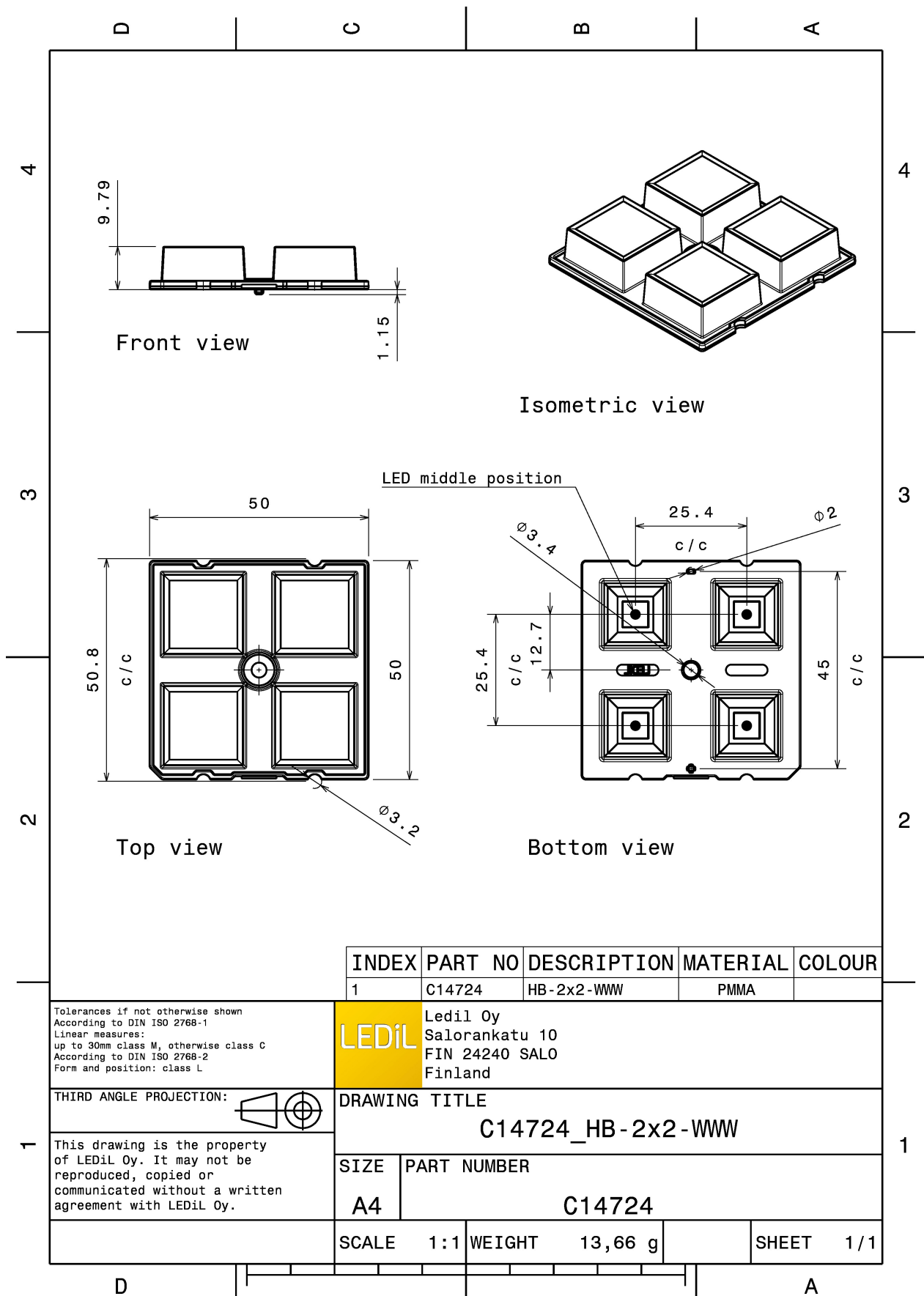
TECHNICAL SPECIFICATIONS:

Dimensions	50.0 mm
Height	10 mm
Fastening	tape, screw
Colour	clear
Box size	480 x 280 x 300 mm
Box weight	11.7 kg
Quantity in Box	800 pcs
ROHS compliant	yes ⓘ



MATERIAL SPECIFICATIONS:

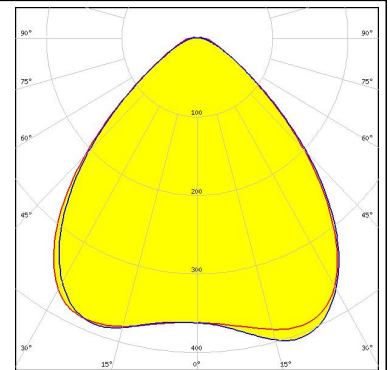
Component	Type	Material	Colour
HB-2X2-WWW	Multi-lens	PMMA	clear



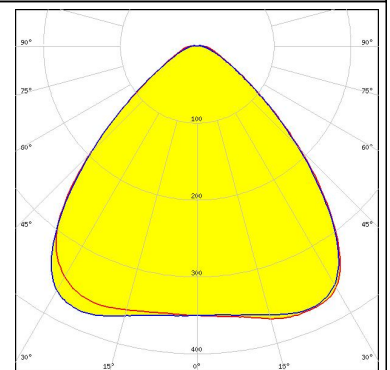
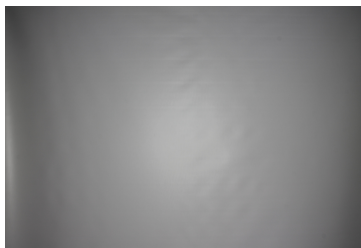
PHOTOMETRIC DATA (MEASURED):



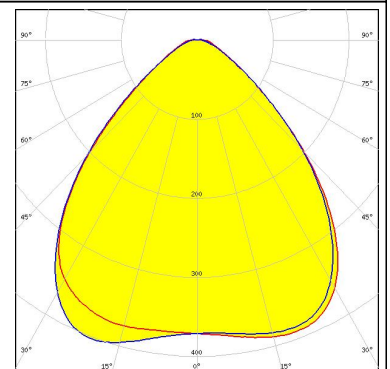
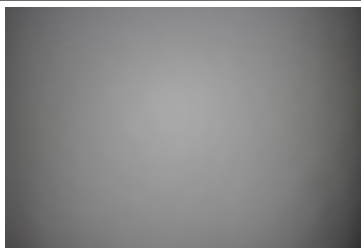
LED Bridgelux SMD 5050
 FWHM 94.0°
 Efficiency 94 %
 Peak intensity 0.420 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



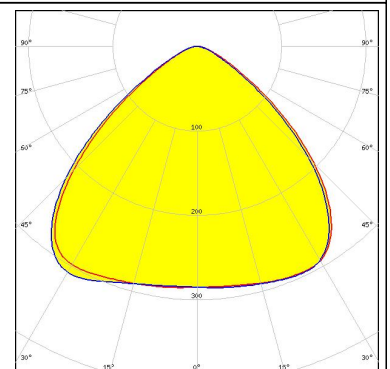
LED XD16
 FWHM 93.0°
 Efficiency 91 %
 Peak intensity 0.390 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED XD16
 FWHM 92.0°
 Efficiency 94 %
 Peak intensity 0.410 cd/lm
 LEDs/each optic 4
 Light colour White
 Required components:



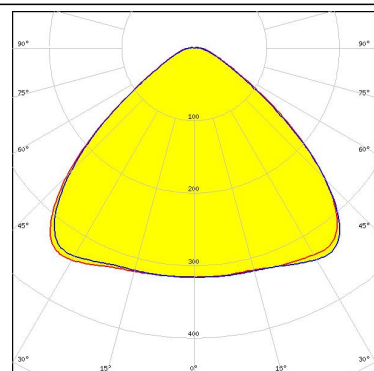
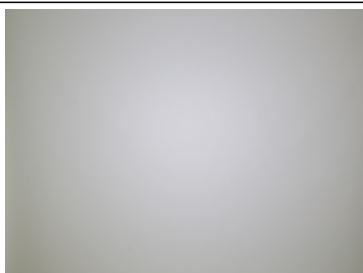
LED XHP35 HD
 FWHM 101.0°
 Efficiency 79 %
 Peak intensity 0.310 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



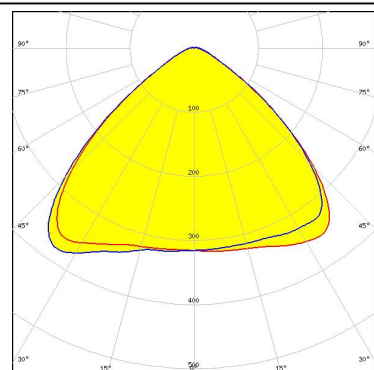
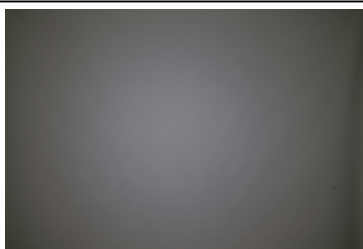
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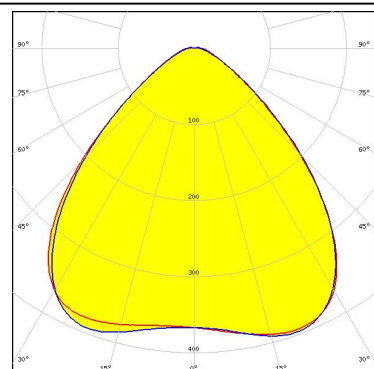
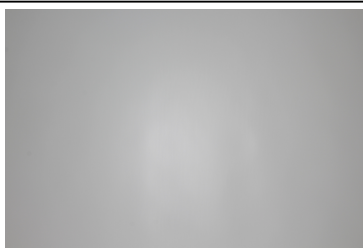
LED XP-G2
FWHM 106.0°
Efficiency 92 %
Peak intensity 0.340 cd/lm
LEDs/each optic 1
Light colour White
Required components:



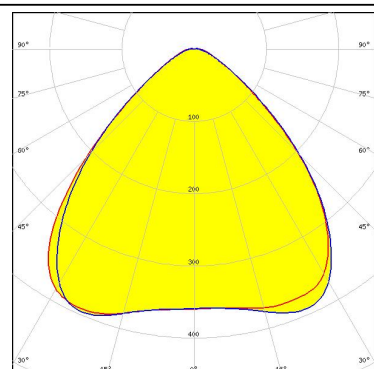
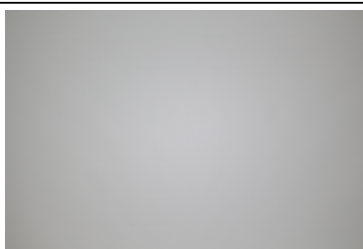
LED H35C1 (LEMWA33)
FWHM 104.0°
Efficiency 94 %
Peak intensity 0.380 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED LUXEON 5050
FWHM 93.0°
Efficiency 93 %
Peak intensity 0.410 cd/lm
LEDs/each optic 1
Light colour White
Required components:



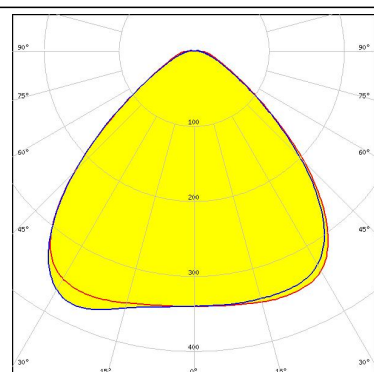
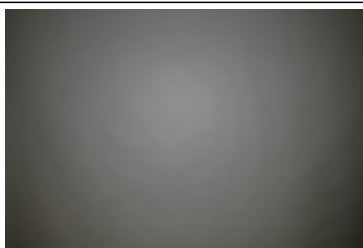
LED LUXEON MZ
FWHM 94.0°
Efficiency 92 %
Peak intensity 0.400 cd/lm
LEDs/each optic 1
Light colour White
Required components:



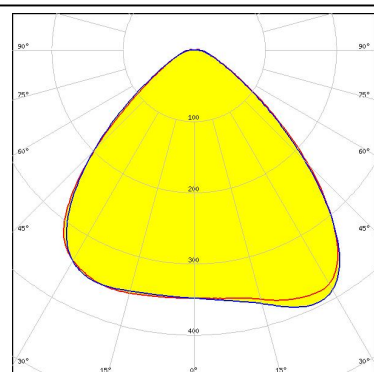
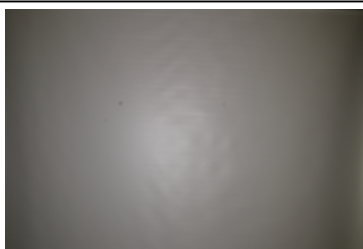
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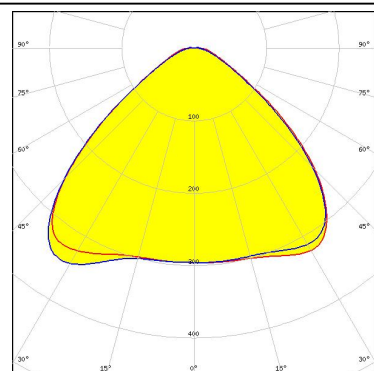
LED LUXEON V
FWHM 96.0°
Efficiency 93 %
Peak intensity 0.370 cd/lm
LEDs/each optic 1
Light colour White
Required components:



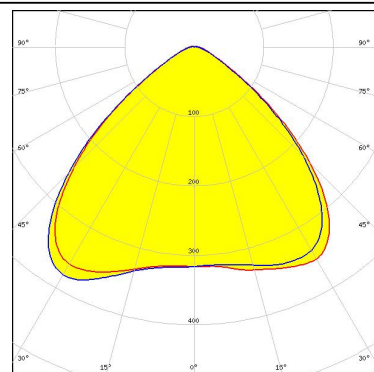
LED LUXEON V2
FWHM 95.0°
Efficiency 93 %
Peak intensity 0.400 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED NVSW319B
FWHM 104.0°
Efficiency 92 %
Peak intensity 0.350 cd/lm
LEDs/each optic 1
Light colour White
Required components:



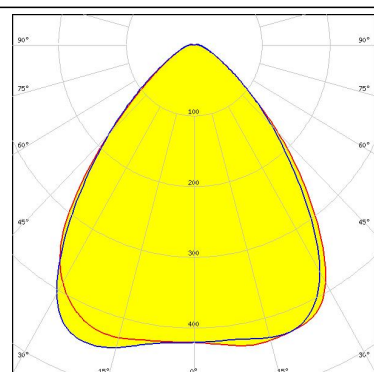
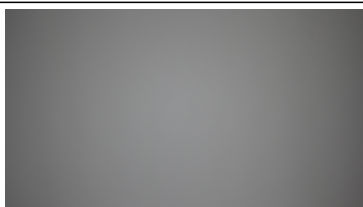
LED NVSW3x9A
FWHM 101.0°
Efficiency 93 %
Peak intensity 0.400 cd/lm
LEDs/each optic 1
Light colour White
Required components:



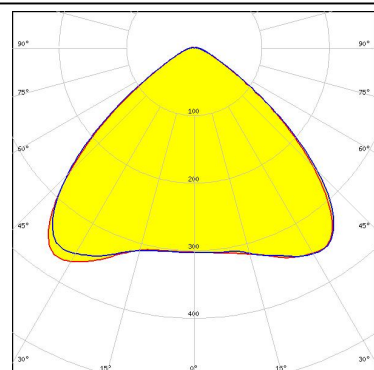
PHOTOMETRIC DATA (MEASURED):



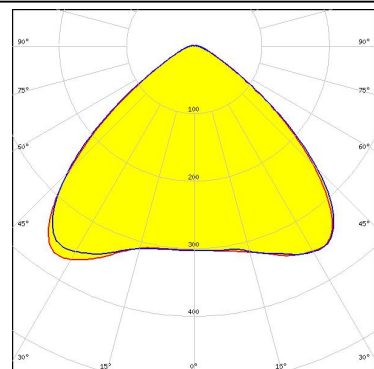
LED NVSxE21A
FWHM 85.0°
Efficiency 92 %
Peak intensity 0.460 cd/lm
LEDs/each optic 1
Light colour White
Required components:



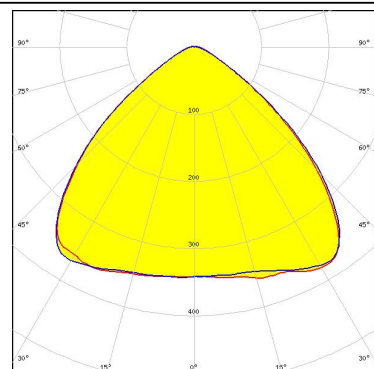
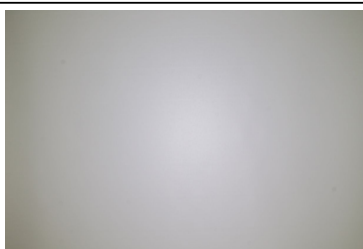
LED PrevaLED Brick DC 2x8
FWHM 104.0°
Efficiency 94 %
Peak intensity 0.370 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED Oslon Square Gen3
FWHM 104.0°
Efficiency 94 %
Peak intensity 0.370 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED Oslon Square PC
FWHM 105.0°
Efficiency 94 %
Peak intensity 0.380 cd/lm
LEDs/each optic 1
Light colour White
Required components:

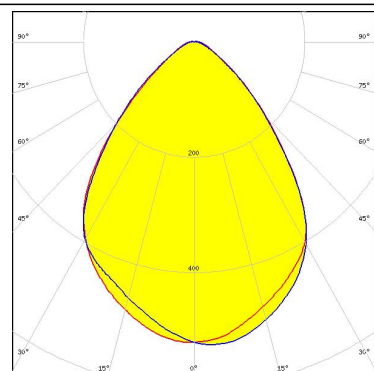
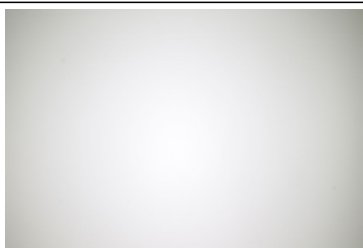


PHOTOMETRIC DATA (MEASURED):

OSRAM

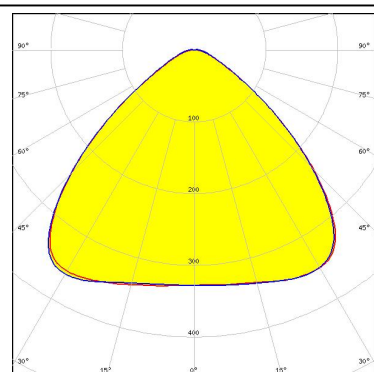
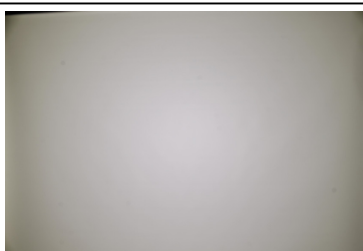
Opto Semiconductors

LED Oslon SSL 80
FWHM 82.0°
Efficiency 93 %
Peak intensity 0.530 cd/lm
LEDs/each optic 1
Light colour White
Required components:



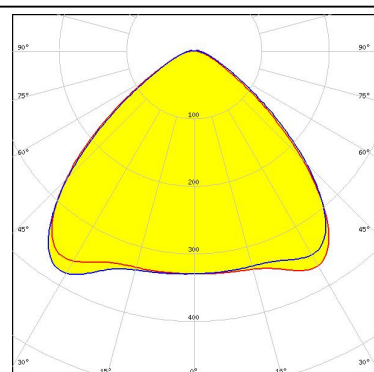
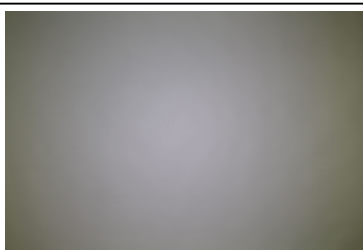
PHILIPS

LED Fortimo FastFlex LED 2x8 DA G4
FWHM 104.0°
Efficiency 92 %
Peak intensity 0.360 cd/lm
LEDs/each optic 1
Light colour White
Required components:



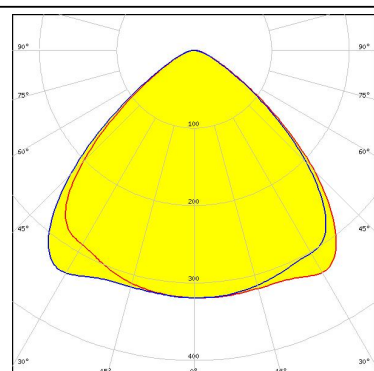
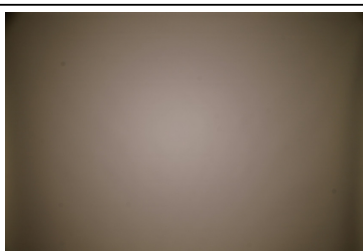
SAMSUNG

LED HiLOM RH16 (LH351C)
FWHM 102.0°
Efficiency 94 %
Peak intensity 0.400 cd/lm
LEDs/each optic 1
Light colour White
Required components:



SAMSUNG

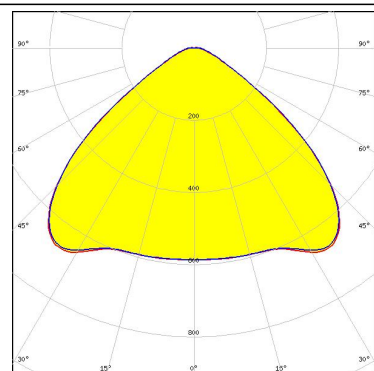
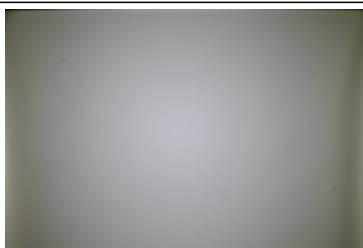
LED LH351B
FWHM 102.0°
Efficiency 81 %
Peak intensity 0.330 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (MEASURED):

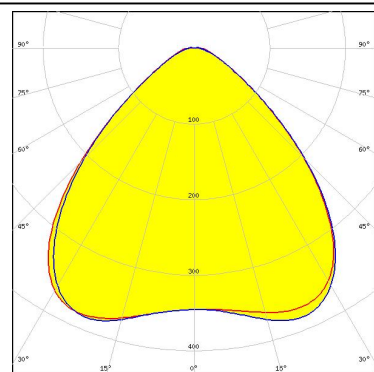
SAMSUNG

LED LH351D
FWHM 107.0°
Efficiency 94 %
Peak intensity 0.350 cd/lm
LEDs/each optic 1
Light colour White
Required components:



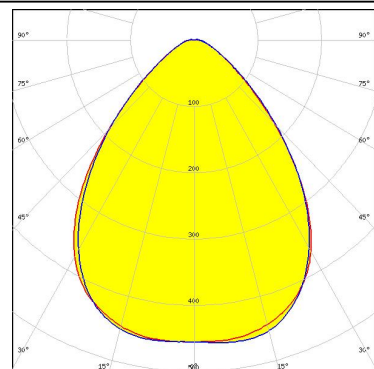
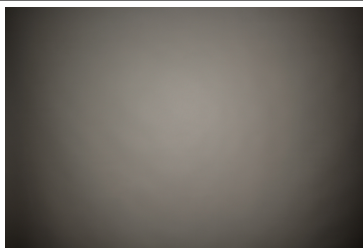
SAMSUNG

LED LH508A
FWHM 95.0°
Efficiency 93 %
Peak intensity 0.400 cd/lm
LEDs/each optic 1
Light colour White
Required components:



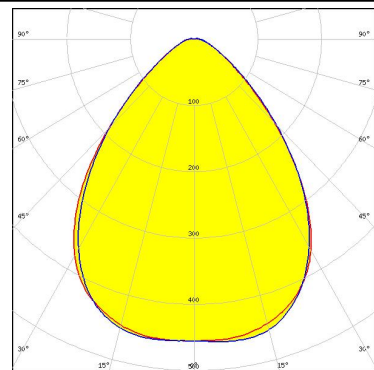
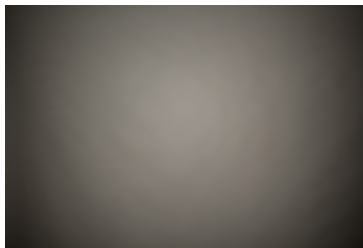
SEOUL SEMICONDUCTOR

LED 2x2 Y22 module - SMJQ-D48W16AA-XX
FWHM 83.0°
Efficiency 93 %
Peak intensity 0.460 cd/lm
LEDs/each optic 1
Light colour White
Required components:



SEOUL SEMICONDUCTOR

LED Z8Y19
FWHM 83.0°
Efficiency 93 %
Peak intensity 0.460 cd/lm
LEDs/each optic 4
Light colour White
Required components:



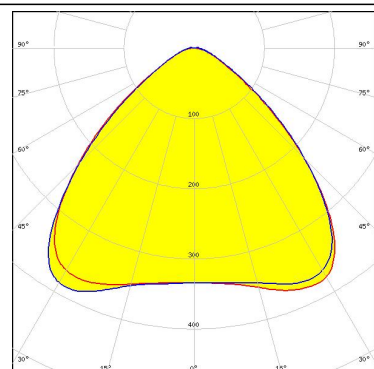
PHOTOMETRIC DATA (MEASURED):

<p>SEOUL SEMICONDUCTOR</p> <p>LED Z8Y19</p> <p>FWHM 83.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 0.460 cd/lm</p> <p>LEDs/each optic 4</p> <p>Light colour White</p> <p>Required components:</p>		
<p>SEOUL SEMICONDUCTOR</p> <p>LED Z8Y22</p> <p>FWHM 85.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 0.440 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>SEOUL SEMICONDUCTOR</p> <p>LED Z8Y22P</p> <p>FWHM 93.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 0.390 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>TRIDONIC</p> <p>LED RLE 2x4 2000lm HP EXC2 OTD</p> <p>FWHM 99.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 0.400 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

PHOTOMETRIC DATA (MEASURED):

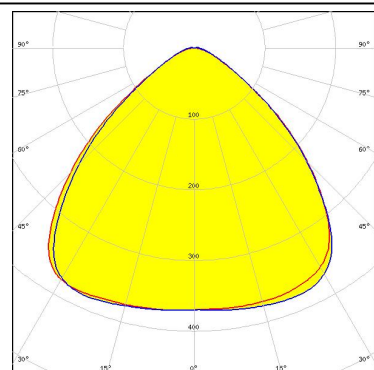
TRIDONIC

LED RLE 2x8 4000lm HP EXC2 OTD
 FWHM 99.0°
 Efficiency 94 %
 Peak intensity 0.400 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



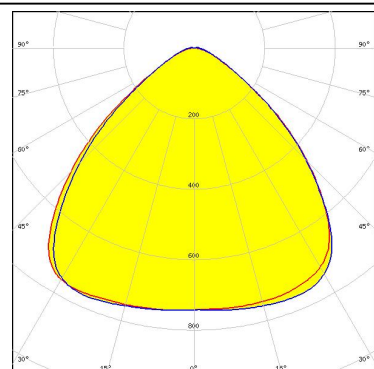
TRIDONIC

LED RLE G1 49x121mm 2000lm xxx EXC OTD
 FWHM 98.0°
 Efficiency 93 %
 Peak intensity 0.380 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



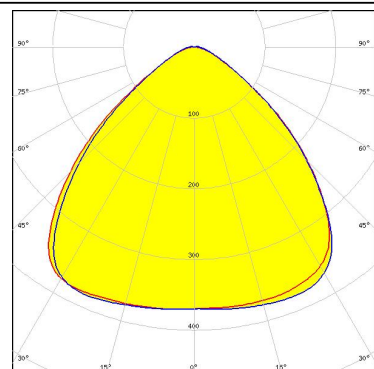
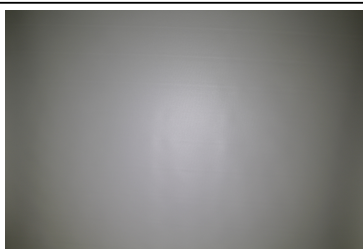
TRIDONIC

LED RLE G1 49x133mm 2000lm xxx EXC OTD
 FWHM 98.0°
 Efficiency 94 %
 Peak intensity 0.380 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



TRIDONIC

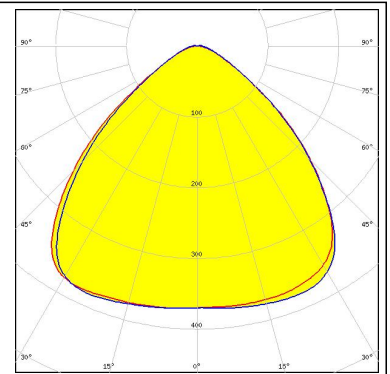
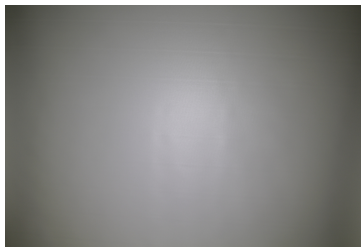
LED RLE G1 49x223mm 4000lm xxx EXC OTD
 FWHM 98.0°
 Efficiency 93 %
 Peak intensity 0.380 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (MEASURED):

TRIDONIC

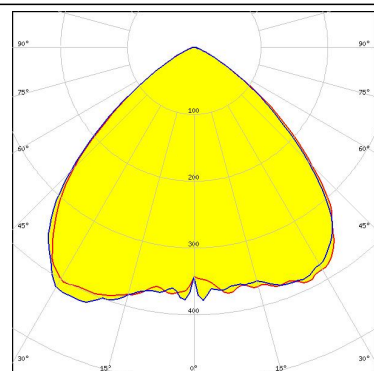
LED RLE G1 49x245mm 4000lm xxx EXC OTD
FWHM 98.0°
Efficiency 93 %
Peak intensity 0.380 cd/lm
LEDs/each optic 1
Light colour White
Required components:



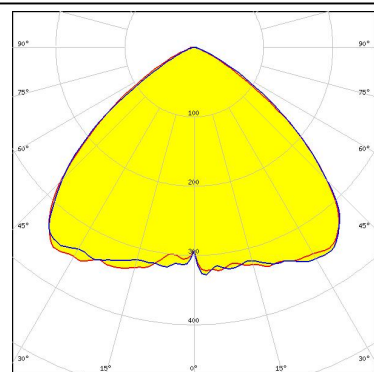
PHOTOMETRIC DATA (SIMULATED):



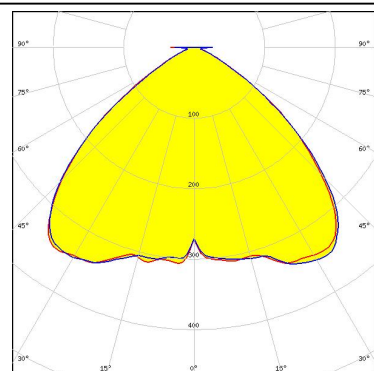
LED J Series 5050
FWHM 98.0°
Efficiency 94 %
Peak intensity 0.420 cd/lm
LEDs/each optic 1
Light colour White
Required components:



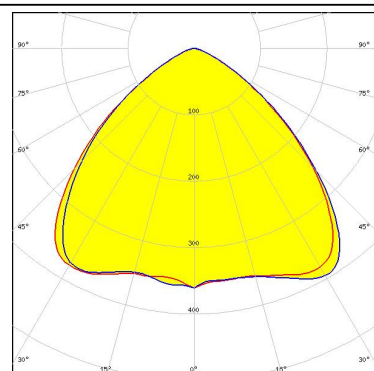
LED XHP35 HI
FWHM 99.0°
Efficiency 93 %
Peak intensity 0.360 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED XP-G3
FWHM 98.0°
Efficiency 94 %
Peak intensity 0.360 cd/lm
LEDs/each optic 1
Light colour White
Required components:



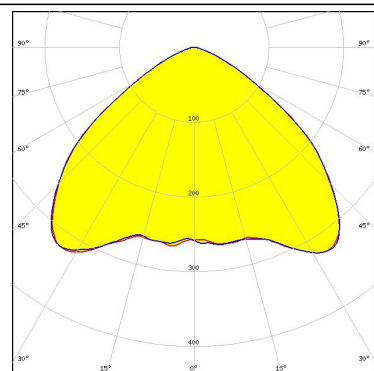
LED LUXEON 3535L
FWHM 92.0°
Efficiency 94 %
Peak intensity 0.400 cd/lm
LEDs/each optic 1
Light colour White
Required components:



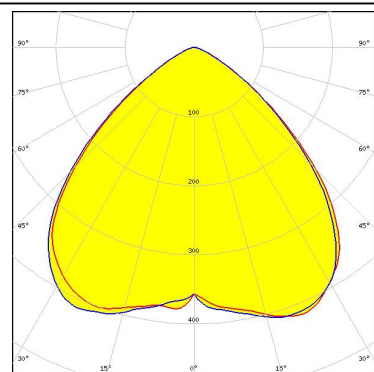
PHOTOMETRIC DATA (SIMULATED):



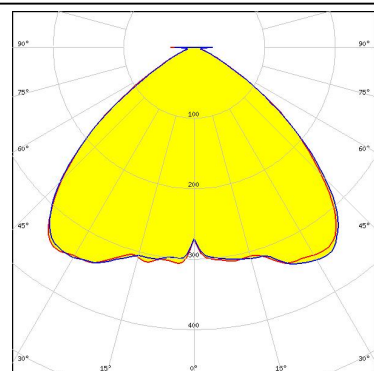
LED LUXEON C
FWHM 108.0°
Efficiency 94 %
Peak intensity 0.360 cd/lm
LEDs/each optic 1
Light colour White
Required components:



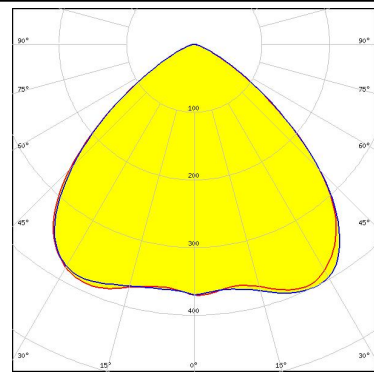
LED Duris S8
FWHM 92.0°
Efficiency 94 %
Peak intensity 0.420 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED Fortimo FastFlex LED 2x8 DAX G4
FWHM 98.0°
Efficiency 94 %
Peak intensity 0.360 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED SEOUL DC 5050 6V
FWHM 94.0°
Efficiency 94 %
Peak intensity 0.400 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.

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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

Salo, Finland
Hong Kong, China

Distribution Partners

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