

HB-2X2-WW

~65° wide beam optimized for CREE XP-L and XM-L

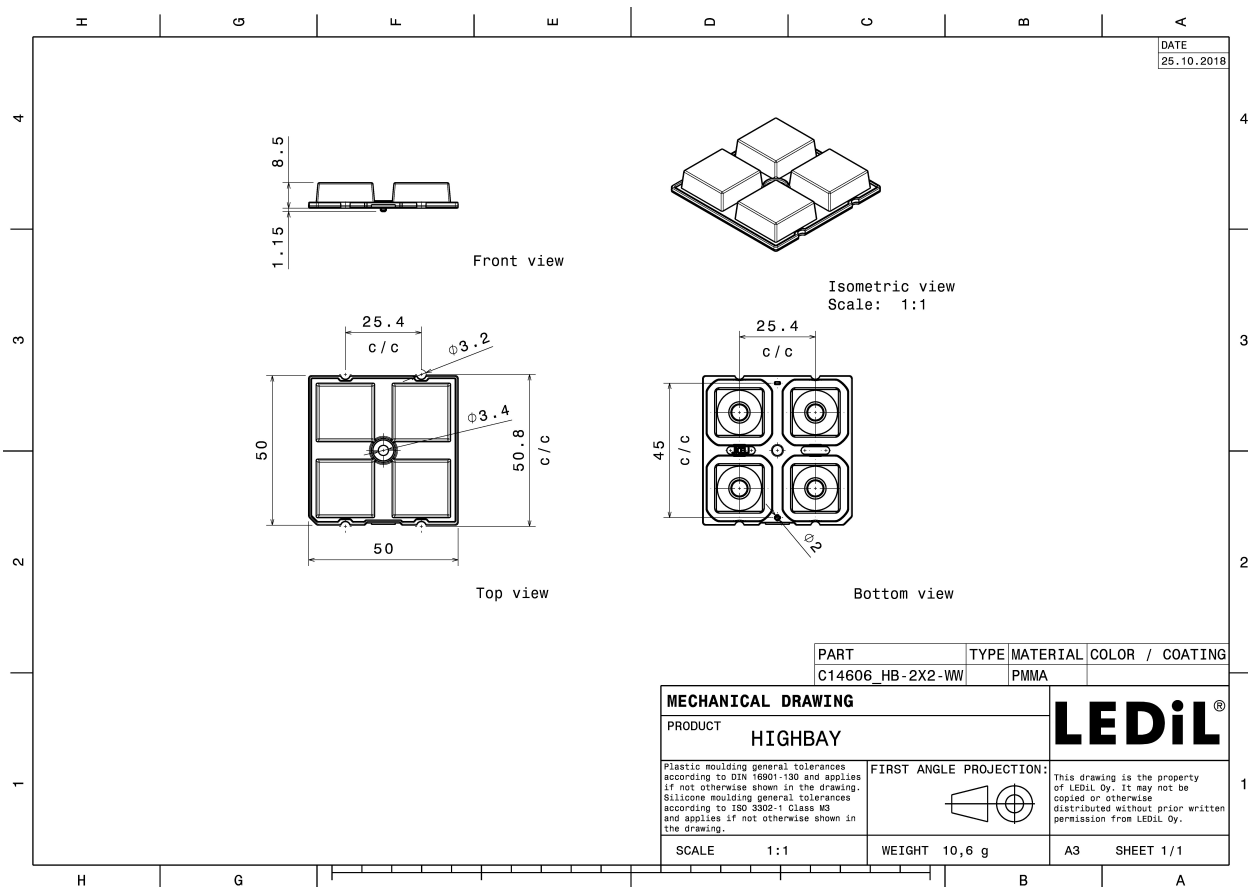
TECHNICAL SPECIFICATIONS:

Dimensions	50.0 mm
Height	8.5 mm
Fastening	pin, screw
Colour	clear
Box size	480 x 280 x 300 mm
Box weight	9.2 kg
Quantity in Box	800 pcs
ROHS compliant	yes ⓘ



MATERIAL SPECIFICATIONS:

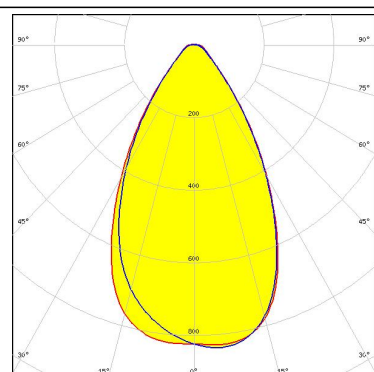
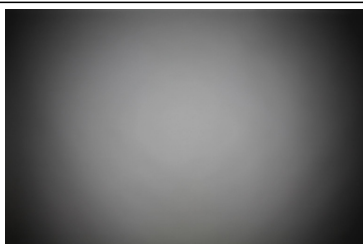
Component	Type	Material	Colour
HB-2X2-WW	Multi-lens	PMMA	clear



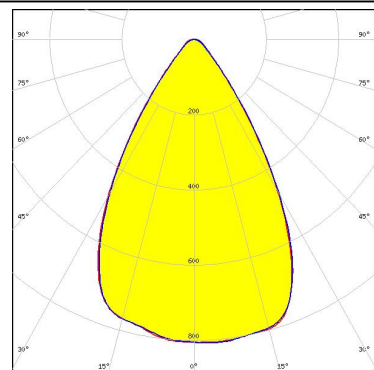
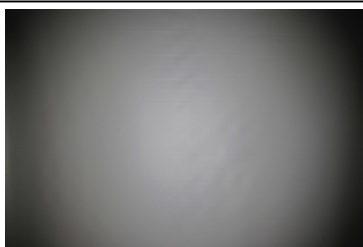
PHOTOMETRIC DATA (MEASURED):



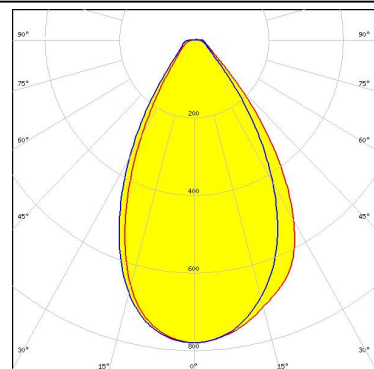
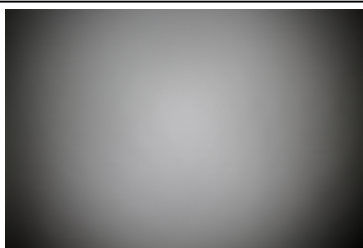
LED Bridgelux SMD 5050
FWHM 59.0°
Efficiency 94 %
Peak intensity 0.840 cd/lm
LEDs/each optic 1
Light colour White
Required components:



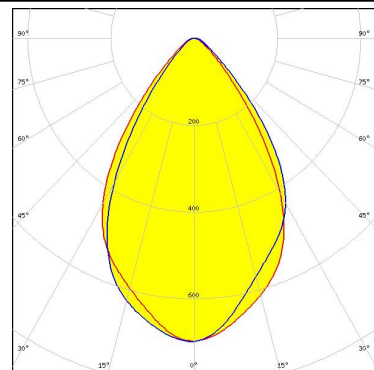
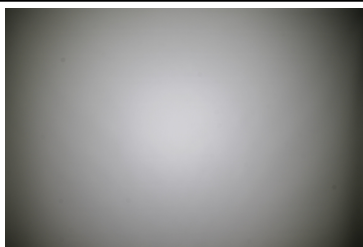
LED XD16
FWHM 63.0°
Efficiency 93 %
Peak intensity 0.800 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED XD16
FWHM 61.0°
Efficiency 92 %
Peak intensity 0.780 cd/lm
LEDs/each optic 4
Light colour White
Required components:



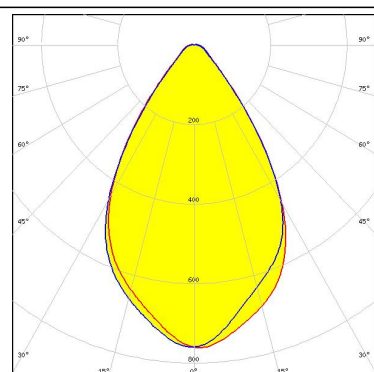
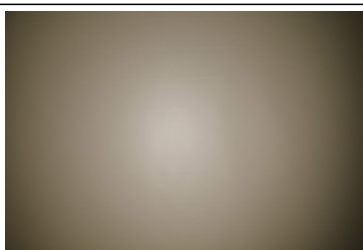
LED XHP35 HD
FWHM 67.0°
Efficiency 84 %
Peak intensity 0.700 cd/lm
LEDs/each optic 1
Light colour White
Required components:



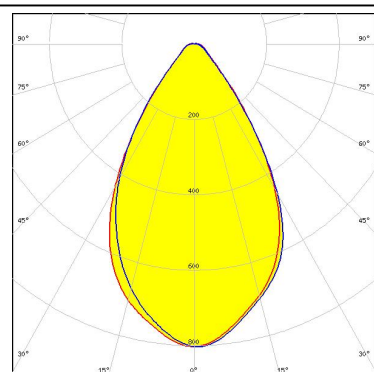
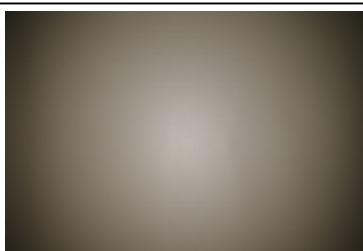
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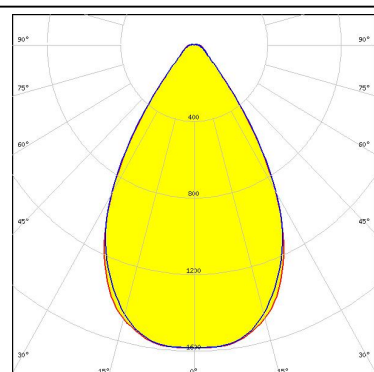
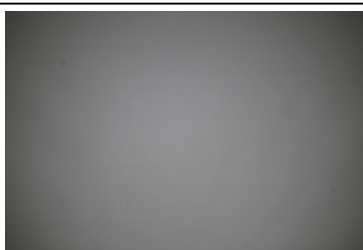
LED XM-L
FWHM 66.0°
Efficiency 93 %
Peak intensity 0.760 cd/lm
LEDs/each optic 1
Light colour White
Required components:



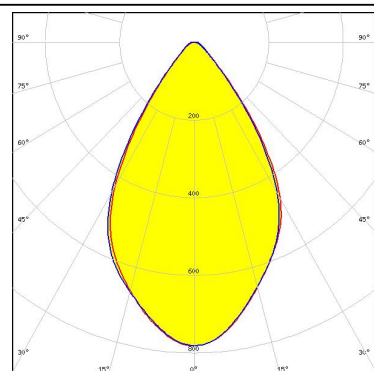
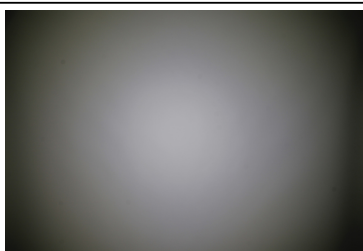
LED XM-L2
FWHM 62.0°
Efficiency 92 %
Peak intensity 0.803 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED XP-G2
FWHM 63.0°
Efficiency 91 %
Peak intensity 0.830 cd/lm
LEDs/each optic 1
Light colour White
Required components:



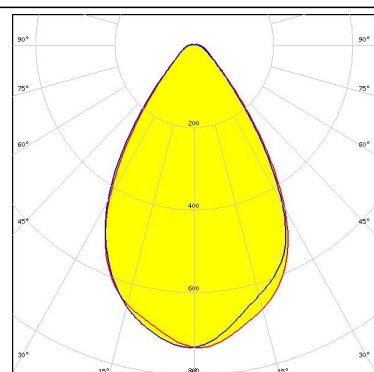
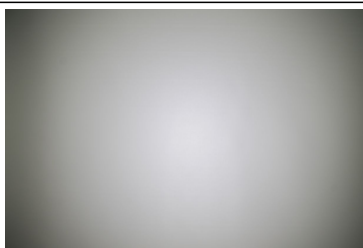
LED XP-G3
FWHM 64.0°
Efficiency 86 %
Peak intensity 0.780 cd/lm
LEDs/each optic 1
Light colour White
Required components:



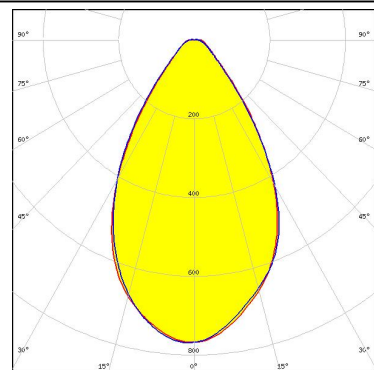
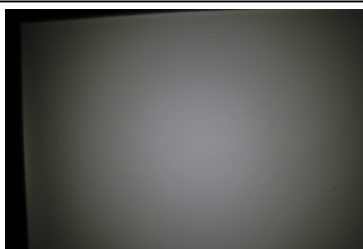
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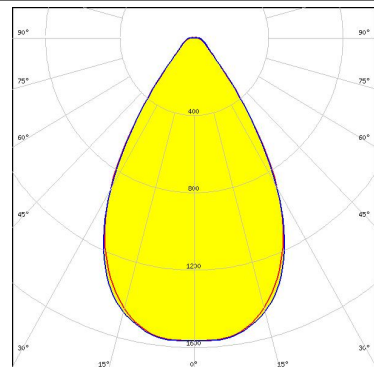
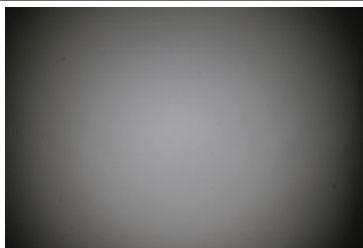
LED XP-L HD
FWHM 66.0°
Efficiency 93 %
Peak intensity 0.735 cd/lm
LEDs/each optic 1
Light colour White
Required components:



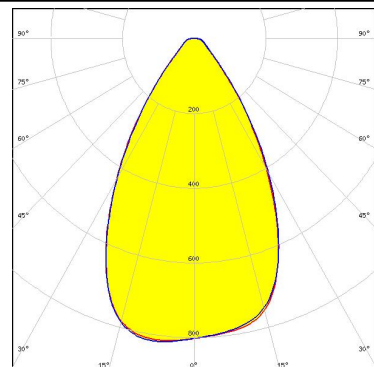
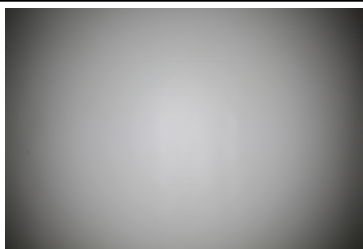
LED XP-L2
FWHM 62.0°
Efficiency 93 %
Peak intensity 0.770 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED H35C1 (LEMWA33)
FWHM 63.0°
Efficiency 92 %
Peak intensity 0.820 cd/lm
LEDs/each optic 1
Light colour White
Required components:



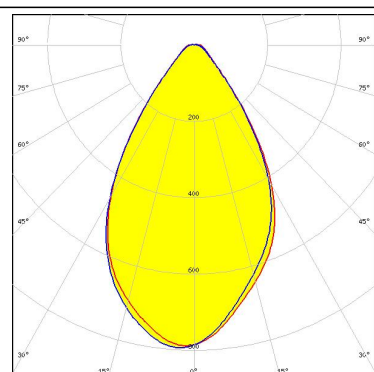
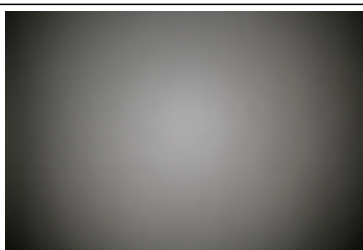
LED LUXEON 5050
FWHM 61.0°
Efficiency 94 %
Peak intensity 0.820 cd/lm
LEDs/each optic 1
Light colour White
Required components:



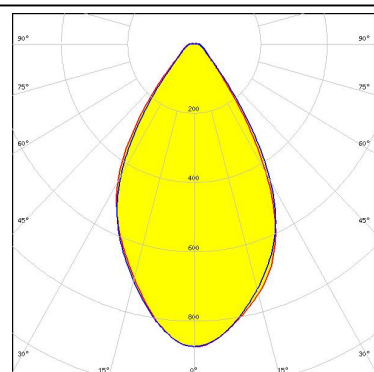
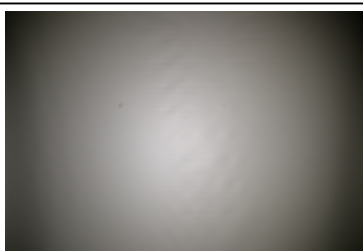
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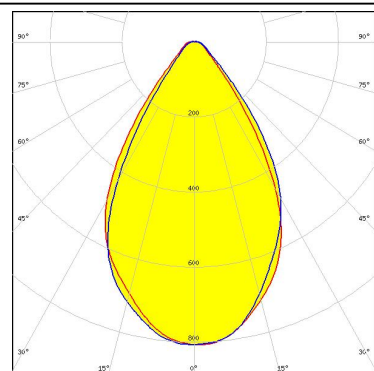
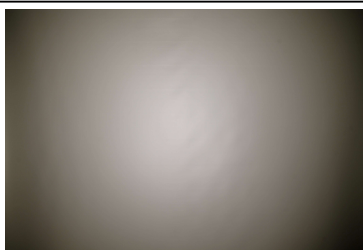
LED LUXEON V
FWHM 63.0°
Efficiency 93 %
Peak intensity 0.800 cd/lm
LEDs/each optic 1
Light colour White
Required components:



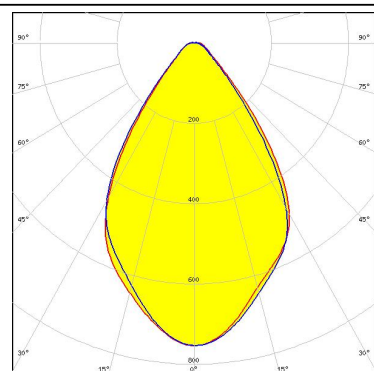
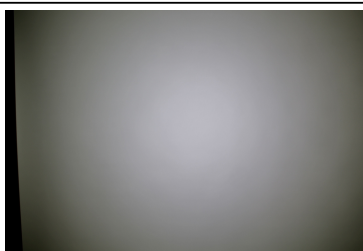
LED LUXEON V2
FWHM 61.0°
Efficiency 94 %
Peak intensity 0.880 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED NVSW219D
FWHM 64.0°
Efficiency 94 %
Peak intensity 0.810 cd/lm
LEDs/each optic 1
Light colour White
Required components:



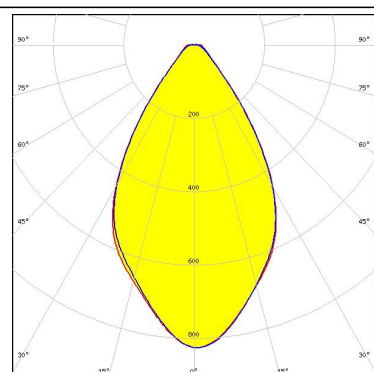
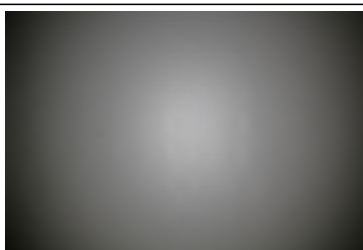
LED NVSW319B
FWHM 68.0°
Efficiency 93 %
Peak intensity 0.750 cd/lm
LEDs/each optic 1
Light colour White
Required components:



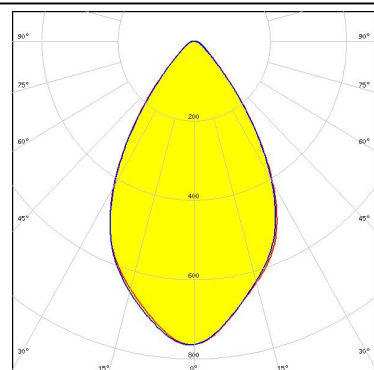
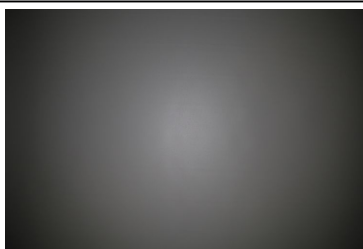
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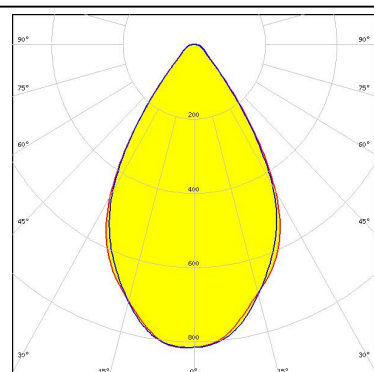
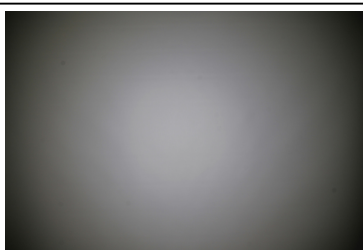
LED NVSW3x9A
FWHM 62.0°
Efficiency 93 %
Peak intensity 0.830 cd/lm
LEDs/each optic 1
Light colour White
Required components:



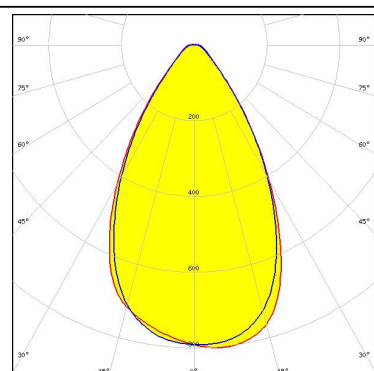
LED NWSx229A
FWHM 63.0°
Efficiency 85 %
Peak intensity 0.770 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED PrevaLED Brick HP 2x8
FWHM 64.0°
Efficiency 92 %
Peak intensity 0.820 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED Duris S8
FWHM 61.0°
Efficiency 93 %
Peak intensity 0.800 cd/lm
LEDs/each optic 1
Light colour White
Required components:

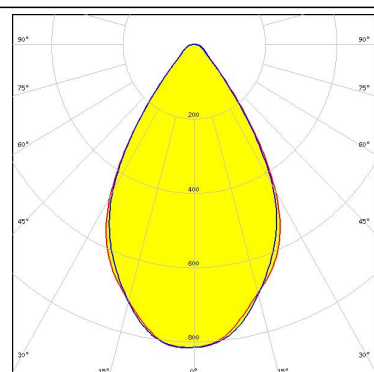
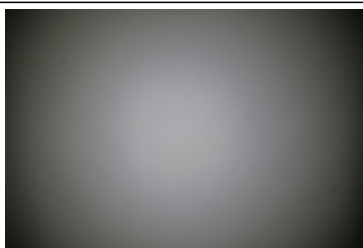


PHOTOMETRIC DATA (MEASURED):

OSRAM

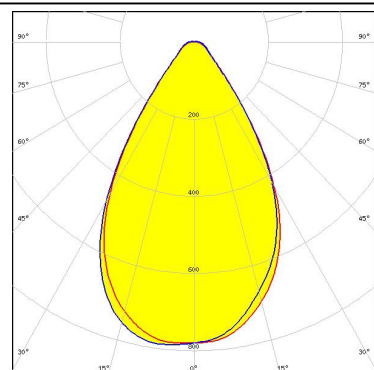
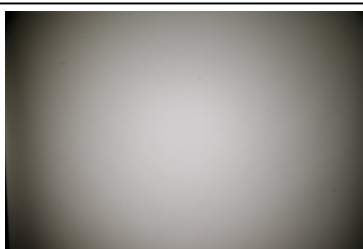
Opto Semiconductors

LED OSLON Square CSSRM2/CSSRM3
FWHM 64.0°
Efficiency 92 %
Peak intensity 0.820 cd/lm
LEDs/each optic 1
Light colour White
Required components:



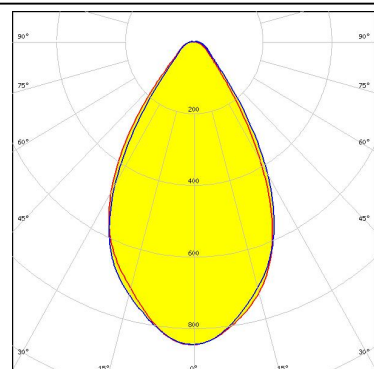
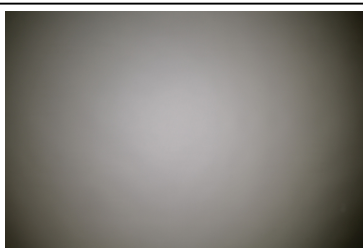
PHILIPS

LED Fortimo FastFlex LED 2x8 DA G4
FWHM 64.0°
Efficiency 93 %
Peak intensity 0.790 cd/lm
LEDs/each optic 1
Light colour White
Required components:



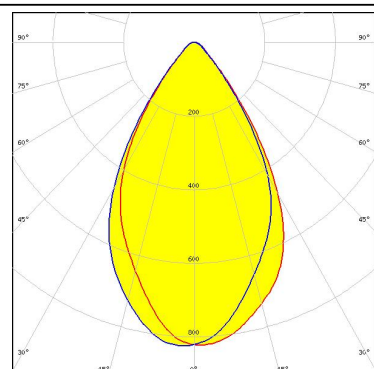
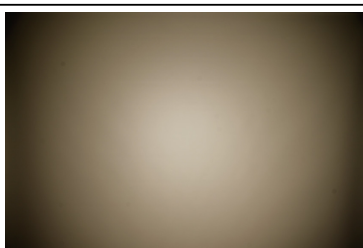
SAMSUNG

LED HiLOM RH16 (LH351C)
FWHM 61.0°
Efficiency 94 %
Peak intensity 0.850 cd/lm
LEDs/each optic 1
Light colour White
Required components:



SAMSUNG

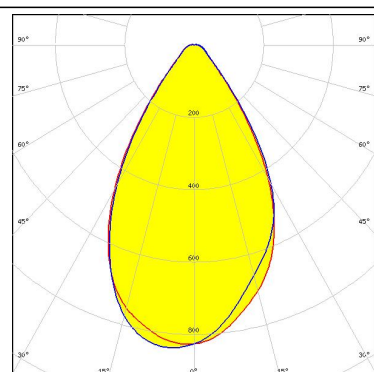
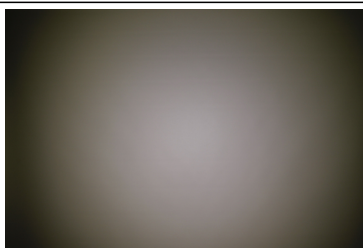
LED LH351B
FWHM 62.0°
Efficiency 86 %
Peak intensity 0.830 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (MEASURED):

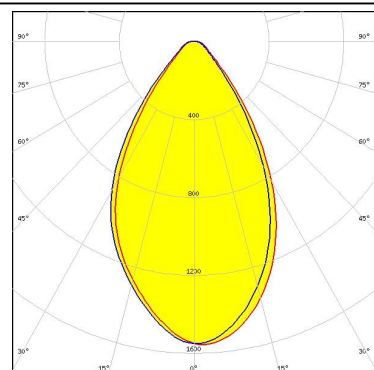
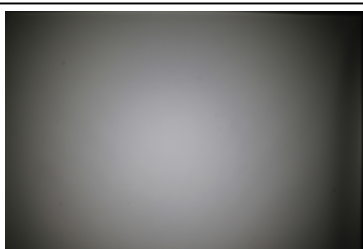
SAMSUNG

LED LH351C
FWHM 62.0°
Efficiency 93 %
Peak intensity 0.840 cd/lm
LEDs/each optic 1
Light colour White
Required components:



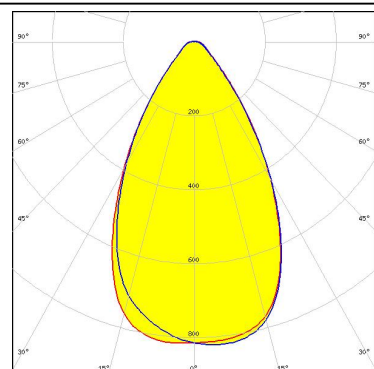
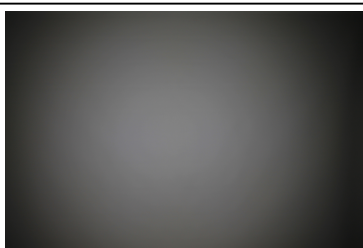
SAMSUNG

LED LH351D
FWHM 62.0°
Efficiency 91 %
Peak intensity 0.780 cd/lm
LEDs/each optic 1
Light colour White
Required components:



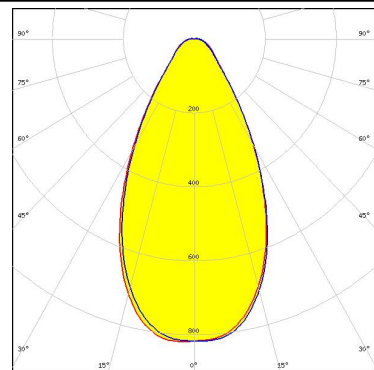
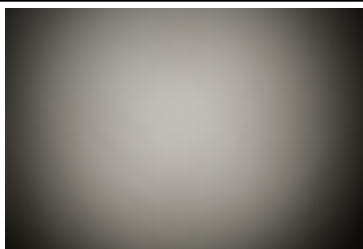
SAMSUNG

LED LH508A
FWHM 60.0°
Efficiency 93 %
Peak intensity 0.820 cd/lm
LEDs/each optic 1
Light colour White
Required components:

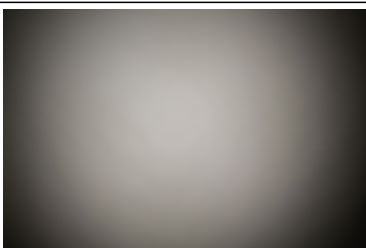
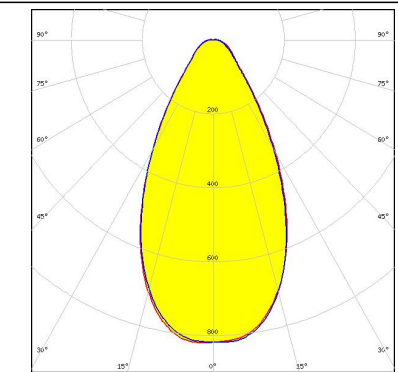
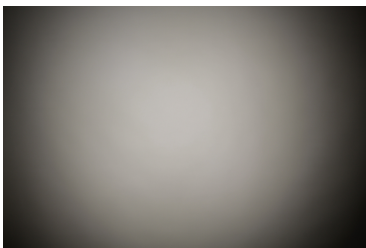
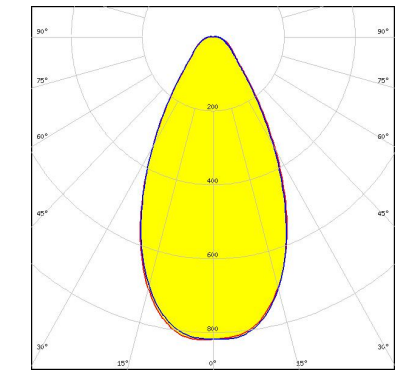
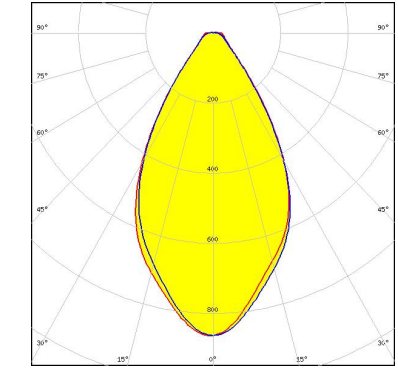


SEOUL SEMICONDUCTOR

LED 2x2 Y22 module - SMJQ-D48W16AA-XX
FWHM 55.0°
Efficiency 92 %
Peak intensity 0.820 cd/lm
LEDs/each optic 1
Light colour White
Required components:



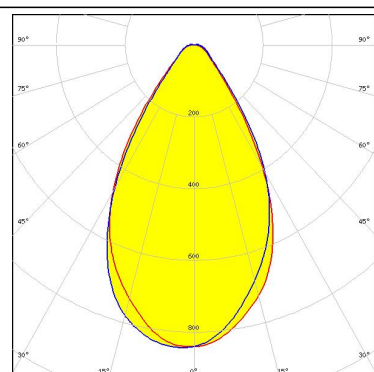
PHOTOMETRIC DATA (MEASURED):

 SEOUL SEMICONDUCTOR LED Z8Y19 FWHM 55.0° Efficiency 92 % Peak intensity 0.820 cd/lm LEDs/each optic 4 Light colour White Required components:		
 SEOUL SEMICONDUCTOR LED Z8Y19 FWHM 55.0° Efficiency 92 % Peak intensity 0.820 cd/lm LEDs/each optic 4 Light colour White Required components:		
 SEOUL SEMICONDUCTOR LED Z8Y22P FWHM 59.0° Efficiency 92 % Peak intensity 0.860 cd/lm LEDs/each optic 1 Light colour White Required components:		
TRIDONIC LED RLE 2x4 2000lm HP EXC2 OTD FWHM 61.0° Efficiency 94 % Peak intensity 0.850 cd/lm LEDs/each optic 1 Light colour White Required components:		

PHOTOMETRIC DATA (MEASURED):

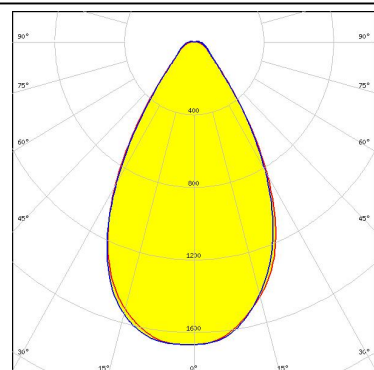
TRIDONIC

LED RLE 2x8 4000lm HP EXC2 OTD
FWHM 61.0°
Efficiency 94 %
Peak intensity 0.850 cd/lm
LEDs/each optic 1
Light colour White
Required components:



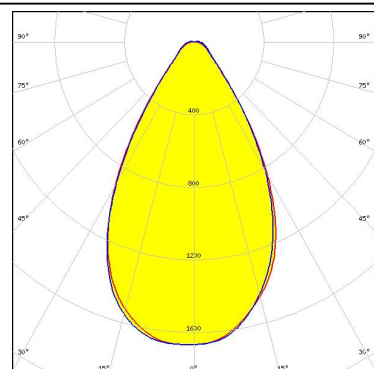
TRIDONIC

LED RLE G1 49x121mm 2000lm xxx EXC OTD
FWHM 61.0°
Efficiency 94 %
Peak intensity 0.830 cd/lm
LEDs/each optic 1
Light colour White
Required components:



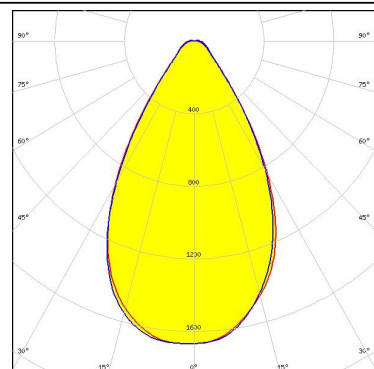
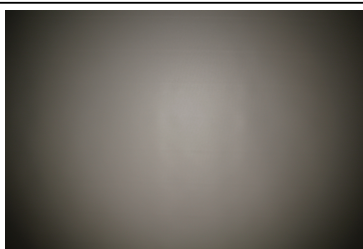
TRIDONIC

LED RLE G1 49x133mm 2000lm xxx EXC OTD
FWHM 61.0°
Efficiency 94 %
Peak intensity 0.830 cd/lm
LEDs/each optic 1
Light colour White
Required components:



TRIDONIC

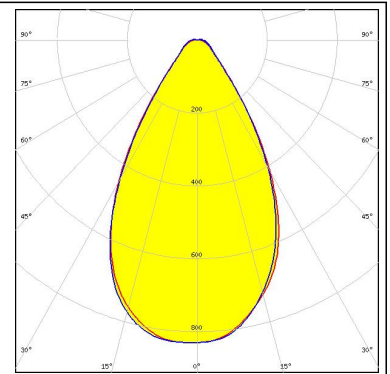
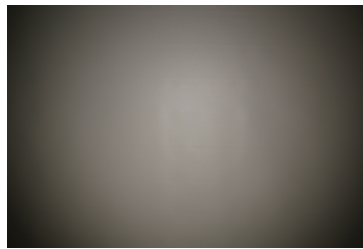
LED RLE G1 49x223mm 4000lm xxx EXC OTD
FWHM 61.0°
Efficiency 94 %
Peak intensity 0.830 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (MEASURED):

TRIDONIC

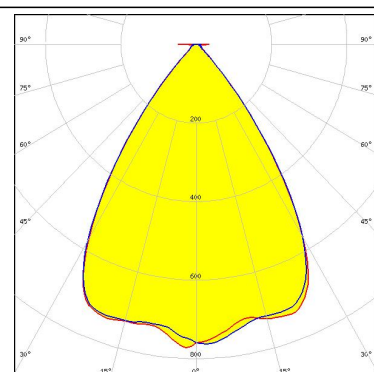
LED RLE G1 49x245mm 4000lm xxx EXC OTD
FWHM 61.0°
Efficiency 94 %
Peak intensity 0.830 cd/lm
LEDs/each optic 1
Light colour White
Required components:



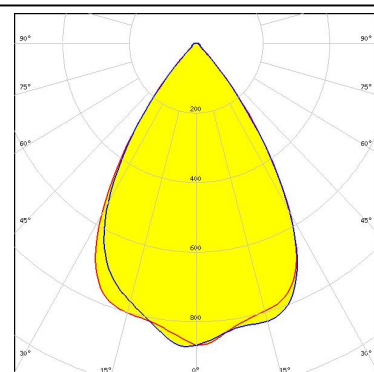
PHOTOMETRIC DATA (SIMULATED):



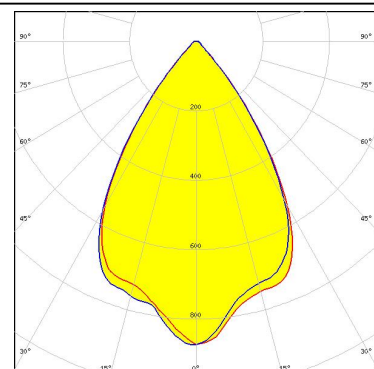
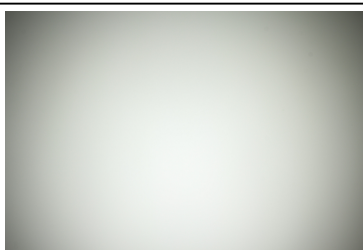
LED XT-E
FWHM 69.0°
Efficiency 94 %
Peak intensity 0.780 cd/lm
LEDs/each optic 1
Light colour White
Required components:



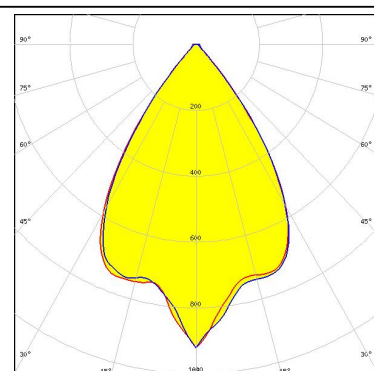
LED LUXEON 3535L
FWHM 66.0°
Efficiency 94 %
Peak intensity 0.870 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED LUXEON MZ
FWHM 66.0°
Efficiency 94 %
Peak intensity 0.880 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED OSCONIQ P 3737 (3W version)
FWHM 66.0°
Efficiency 94 %
Peak intensity 0.920 cd/lm
LEDs/each optic 1
Light colour White
Required components:

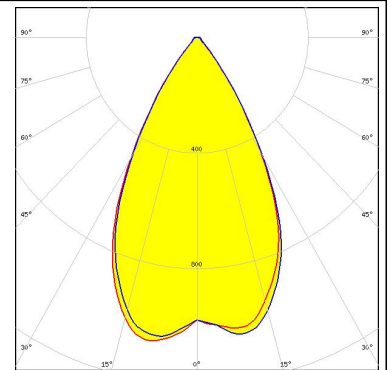


PHOTOMETRIC DATA (SIMULATED):

OSRAM

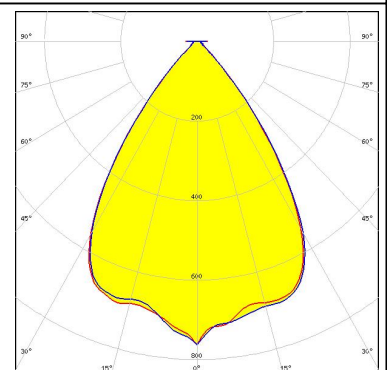
Opto Semiconductors

LED OSLON SSL 80
FWHM 55.6°
Efficiency 94 %
Peak intensity 1.100 cd/lm
LEDs/each optic 1
Light colour White
Required components:



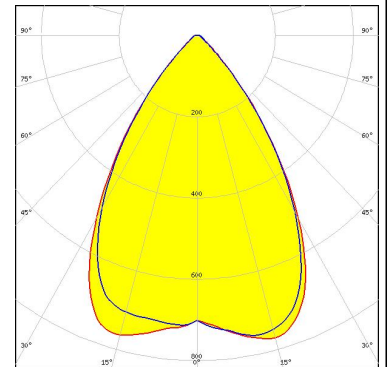
PHILIPS

LED Fortimo FastFlex LED 2x8 DAX G4
FWHM 71.0°
Efficiency 94 %
Peak intensity 0.760 cd/lm
LEDs/each optic 1
Light colour White
Required components:



SEOUL SEMICONDUCTOR

LED SEOUL DC 5050 6V
FWHM 64.0°
Efficiency 94 %
Peak intensity 0.790 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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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
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Distribution Partners

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