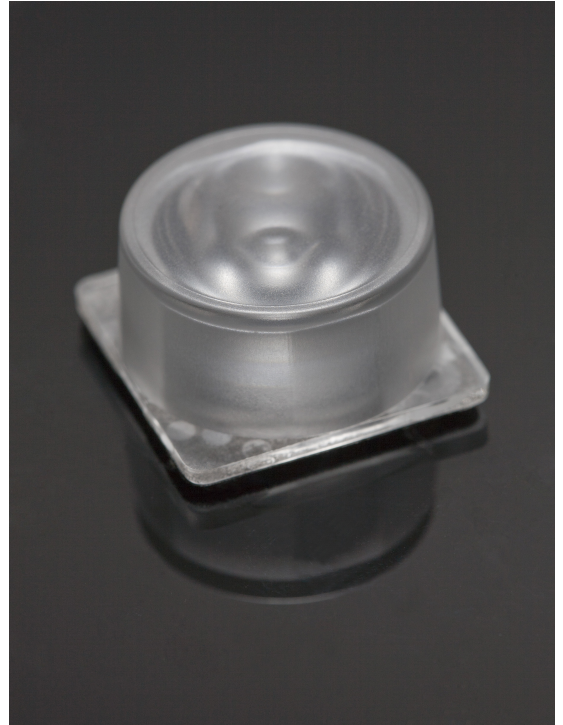


VERONICA-SQ-M

~30° medium beam

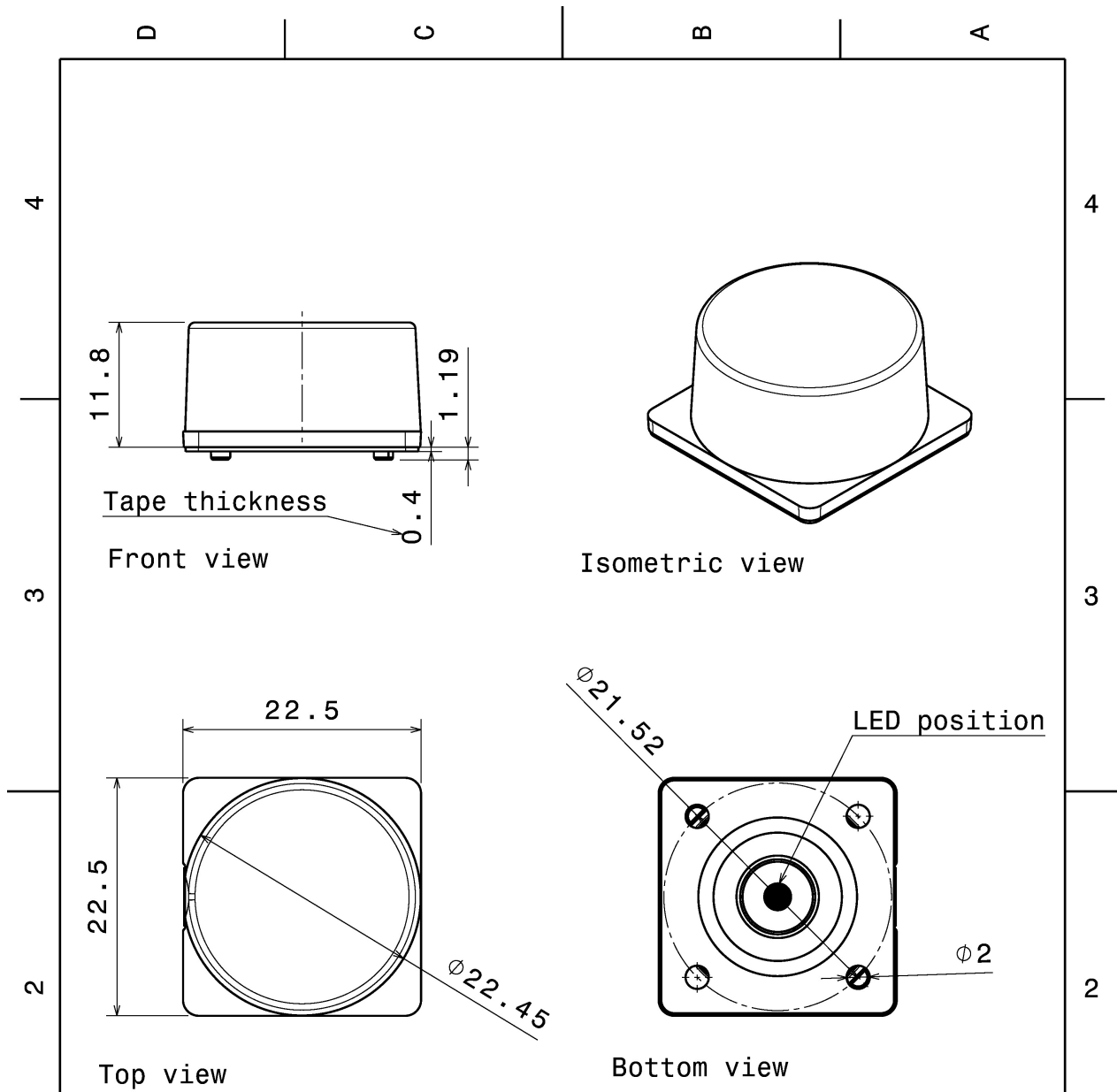
TECHNICAL SPECIFICATIONS:

Dimensions	22.5 mm
Height	11.8 mm
Fastening	tape, pin
Colour	clear
Box size	476 x 273 x 197 mm
Box weight	8.2 kg
Quantity in Box	1980 pcs
ROHS compliant	yes ⓘ



MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour
VERONICA-SQ-M	Single lens	PMMA	
VERONICA-TAPE	Tape	PU tape	clear



INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	C14448	VERONICA-SQ-M	PMMA	clear
2	C13729	VERONICA-SQ-TAPE	PU	black

Tolerances if not otherwise shown
According to DIN ISO 2768-1
Linear measures: class C
According to DIN ISO 2768-2
Form and position: class L

LEDiL

Ledil Oy
Salorankatu 10
FIN 24240 SALO
Finland

THIRD ANGLE PROJECTION:

DRAWING TITLE
CA14461_VERONICA-SQ-M

This drawing is the property of LEDiL Oy. It may not be reproduced, copied or communicated without a written agreement with LEDiL Oy.

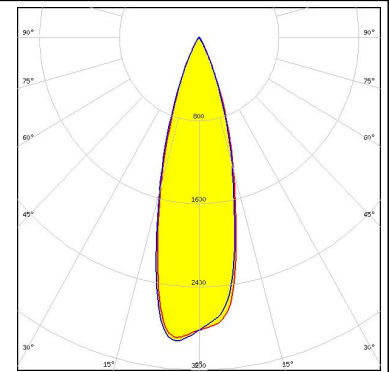
SIZE	PART NUMBER
A4	CA14461

SCALE	2:1	WEIGHT	3,64 g	SHEET	1/1
-------	-----	--------	--------	-------	-----

PHOTOMETRIC DATA (MEASURED):

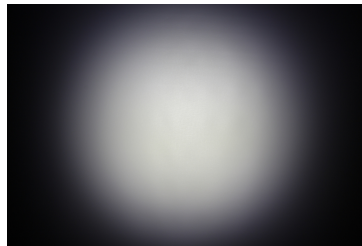
CREE 

LED XB-H
FWHM 29.0°
Efficiency 91 %
Peak intensity 3.000 cd/lm
LEDs/each optic 1
Light colour White
Required components:



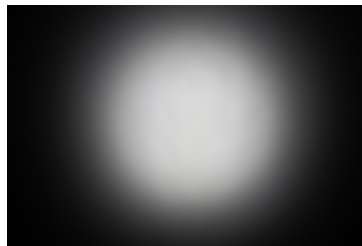
CREE 

LED XHP35 HD
FWHM 40.0°
Efficiency 88 %
Peak intensity 1.900 cd/lm
LEDs/each optic 1
Light colour White
Required components:



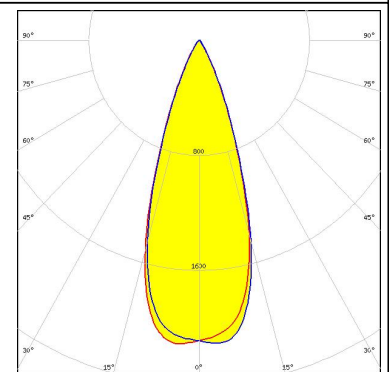
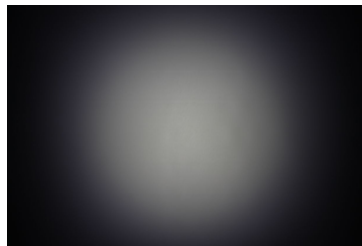
CREE 

LED XHP35 HI
FWHM 33.0°
Efficiency 88 %
Peak intensity 2.700 cd/lm
LEDs/each optic 1
Light colour White
Required components:



CREE 

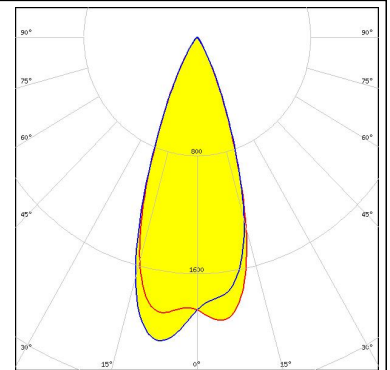
LED XM-L
FWHM 37.0°
Efficiency 92 %
Peak intensity 2.100 cd/lm
LEDs/each optic 1
Light colour White
Required components:



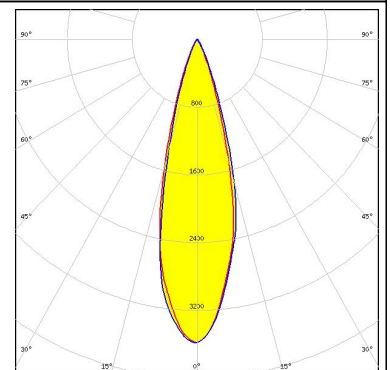
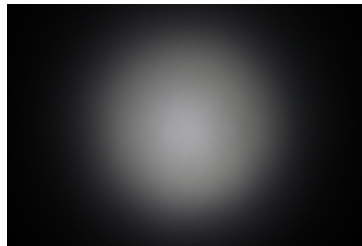
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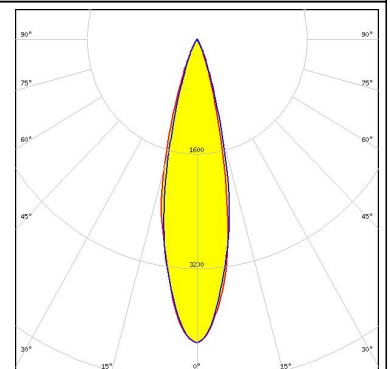
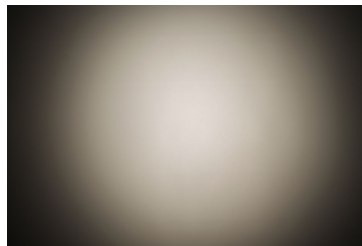
LED XM-L2
FWHM 38.0°
Efficiency 91 %
Peak intensity 2.100 cd/lm
LEDs/each optic 1
Light colour White
Required components:



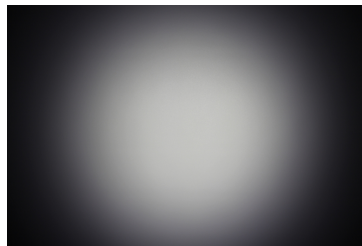
LED XP-E
FWHM 28.0°
Efficiency 93 %
Peak intensity 3.600 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED XP-E2
FWHM 25.0°
Efficiency 94 %
Peak intensity 4.200 cd/lm
LEDs/each optic 1
Light colour White
Required components:



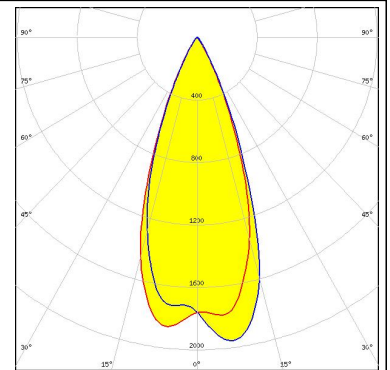
LED XP-G2
FWHM 30.0°
Efficiency 89 %
Peak intensity 3.060 cd/lm
LEDs/each optic 1
Light colour White
Required components:



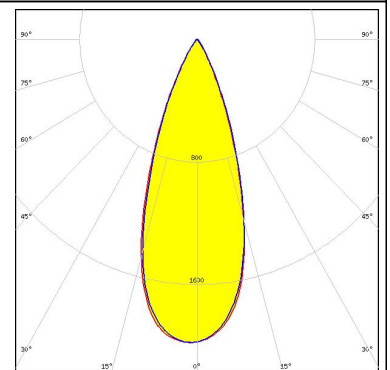
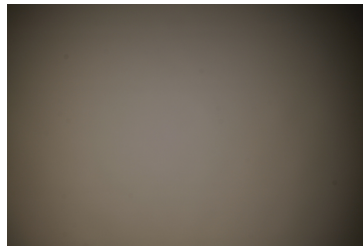
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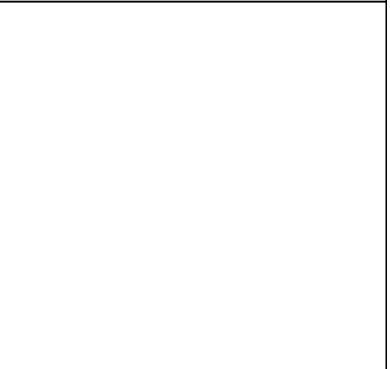
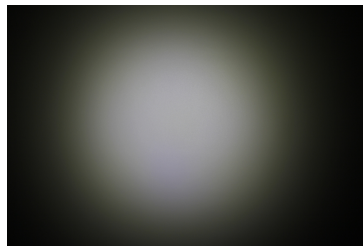
LED XP-L HD
 FWHM 40.0°
 Efficiency 91 %
 Peak intensity 2.000 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



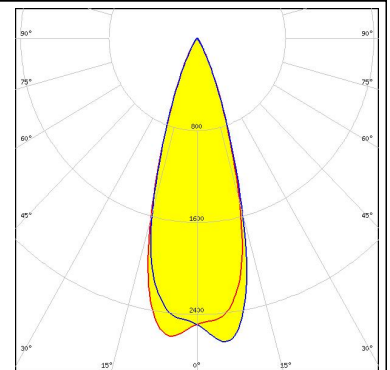
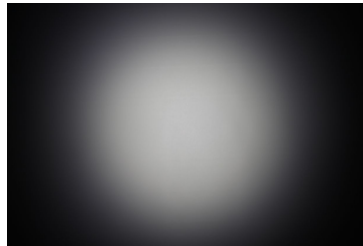
LED XP-L2
 FWHM 37.0°
 Efficiency 87 %
 Peak intensity 2.000 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED XT-E
 FWHM 27.0°
 Efficiency 87 %
 Peak intensity 3.500 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



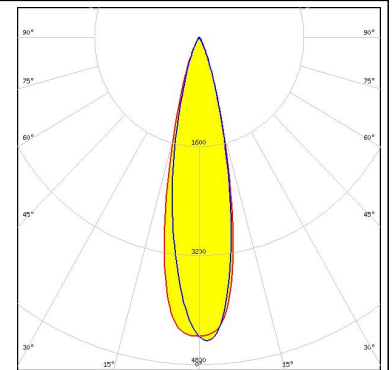
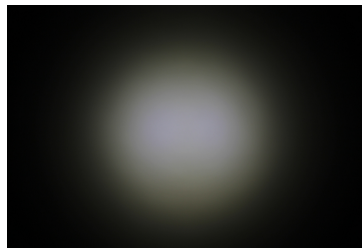
LED H35C1 (LEMWA33)
 FWHM 33.0°
 Efficiency 92 %
 Peak intensity 2.700 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (MEASURED):

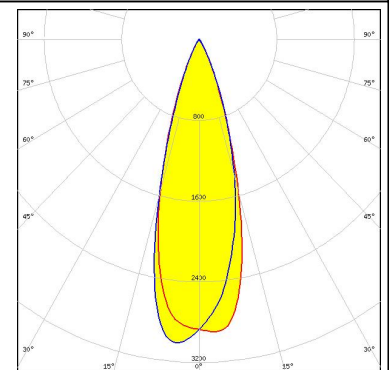
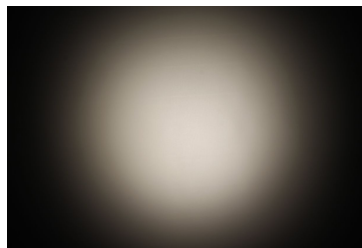
LUMILEDS

LED LUXEON 3030 2D (Round LES)
 FWHM 24.0°
 Efficiency 94 %
 Peak intensity 4.500 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



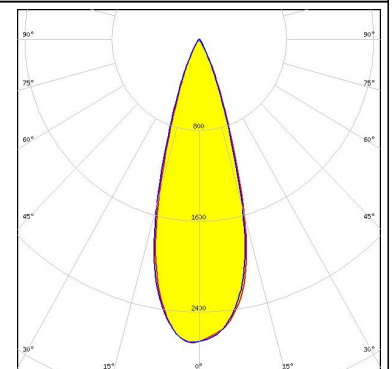
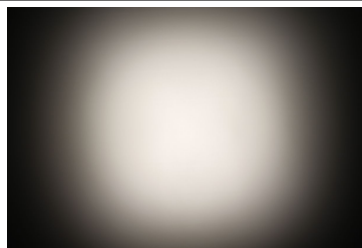
LUMILEDS

LED LUXEON A
 FWHM 30.0°
 Efficiency 91 %
 Peak intensity 3.000 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



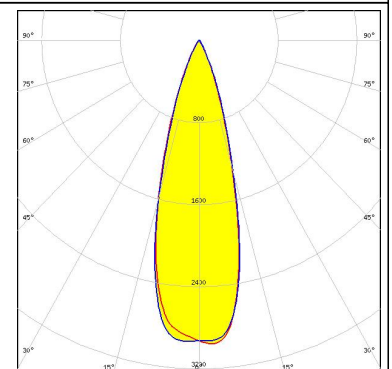
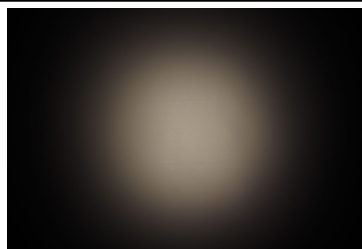
LUMILEDS

LED LUXEON MZ
 FWHM 32.0°
 Efficiency 93 %
 Peak intensity 2.700 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:


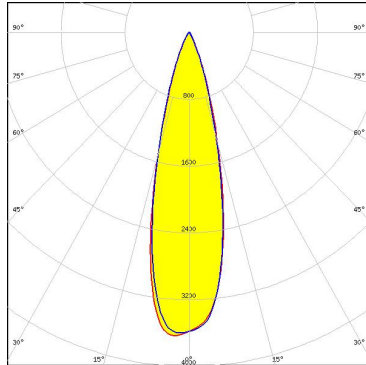
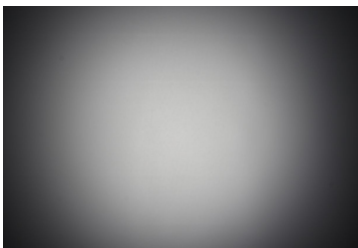
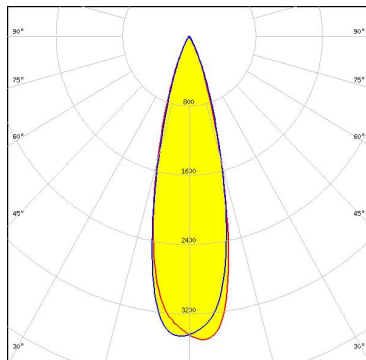

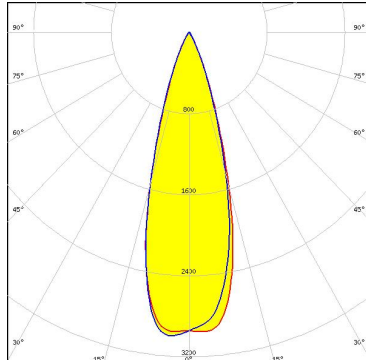
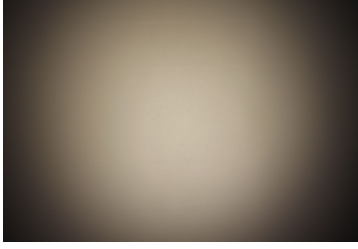
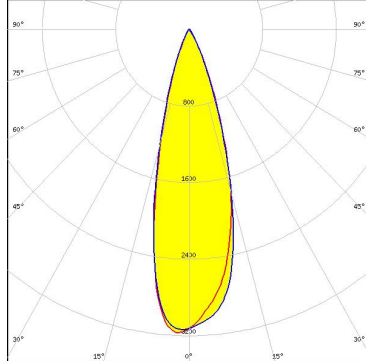


LUMILEDS

LED LUXEON R
 FWHM 30.0°
 Efficiency 91 %
 Peak intensity 3.000 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



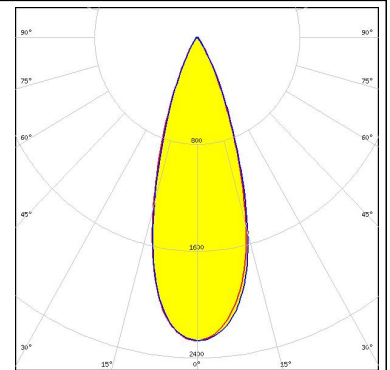
PHOTOMETRIC DATA (MEASURED):

<p>LUMILEDS</p> <p>LED LUXEON Rebel</p> <p>FWHM 26.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 3.600 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>LUMILEDS</p> <p>LED LUXEON Rebel ES</p> <p>FWHM 27.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 3.500 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>LUMILEDS</p> <p>LED LUXEON T</p> <p>FWHM 30.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 3.000 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>LUMILEDS</p> <p>LED LUXEON TX</p> <p>FWHM 30.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 3.200 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

PHOTOMETRIC DATA (MEASURED):

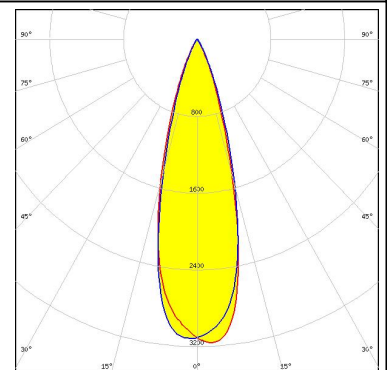
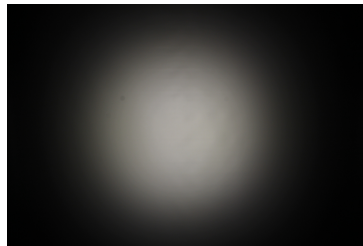
LUMILEDS

LED LUXEON V
 FWHM 35.0°
 Efficiency 90 %
 Peak intensity 2.300 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



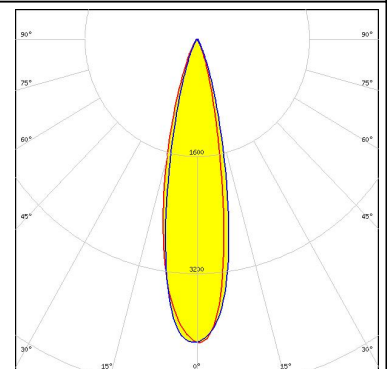
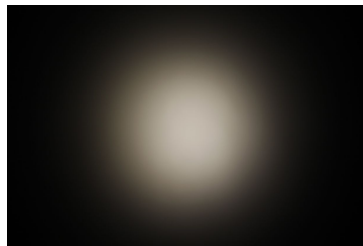
LUMILEDS

LED LUXEON V2
 FWHM 29.0°
 Efficiency 94 %
 Peak intensity 3.200 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



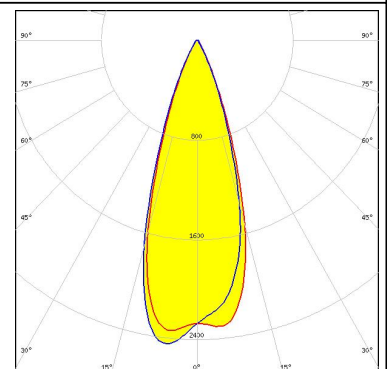
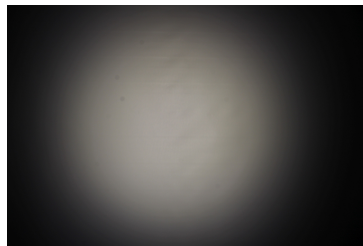
NICHIA

LED NCSxx19B
 FWHM 23.0°
 Efficiency 92 %
 Peak intensity 4.100 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



NICHIA

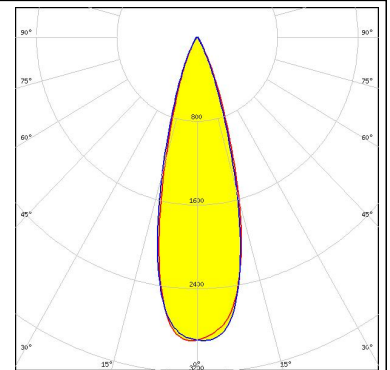
LED NVSW219F
 FWHM 35.0°
 Efficiency 94 %
 Peak intensity 2.500 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



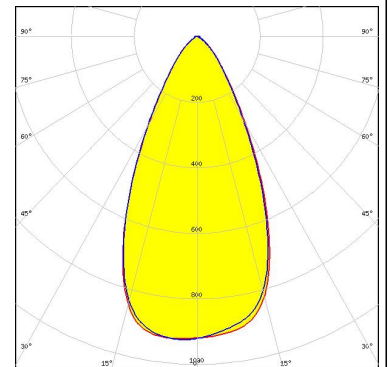
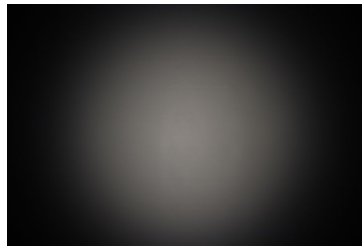
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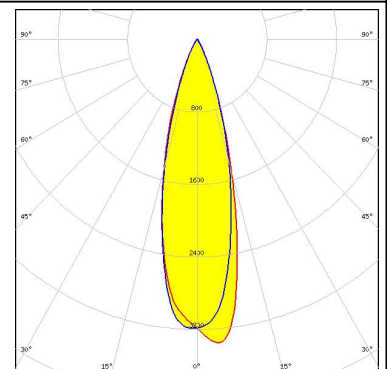
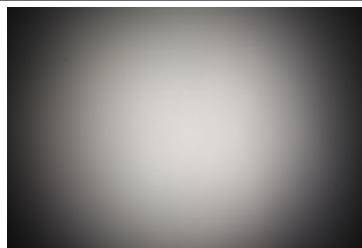
LED NVSxx19B/NVSxx19C
 FWHM 30.0°
 Efficiency 91 %
 Peak intensity 2.900 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



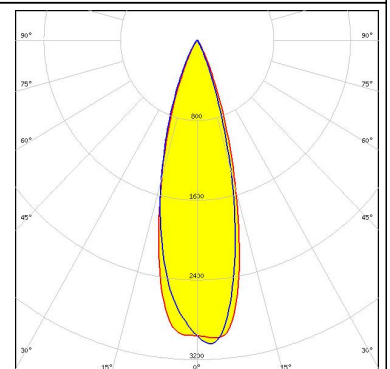
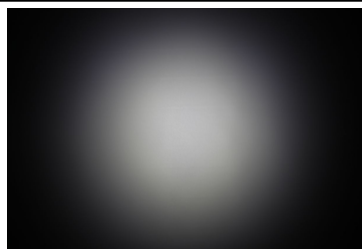
LED NWSx229A
 FWHM 39.0°
 Efficiency 89 %
 Peak intensity 2.000 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM Opto Semiconductors
 LED OSOLON Square EC
 FWHM 28.0°
 Efficiency 91 %
 Peak intensity 3.400 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



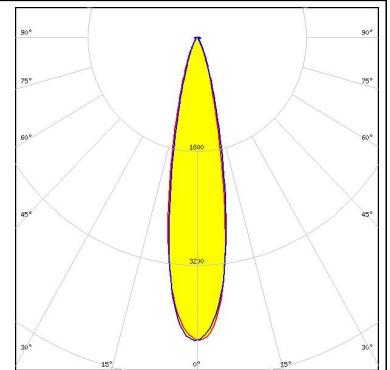
OSRAM Opto Semiconductors
 LED OSOLON Square PC
 FWHM 29.0°
 Efficiency 91 %
 Peak intensity 3.000 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (MEASURED):

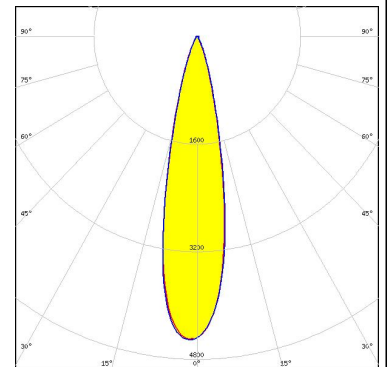
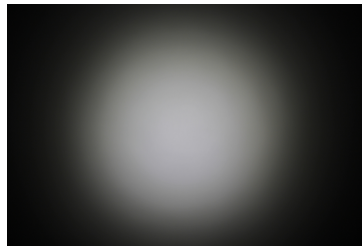
SAMSUNG

LED LH181A
 FWHM 21.0°
 Efficiency 94 %
 Peak intensity 4.300 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



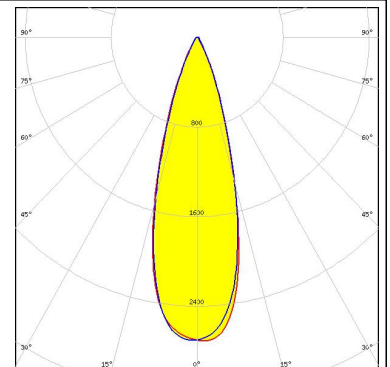
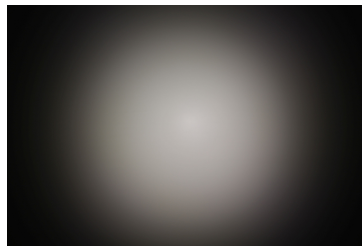
SAMSUNG

LED LH181B
 FWHM 23.0°
 Efficiency 94 %
 Peak intensity 4.500 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



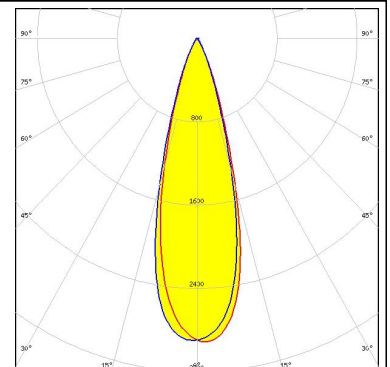
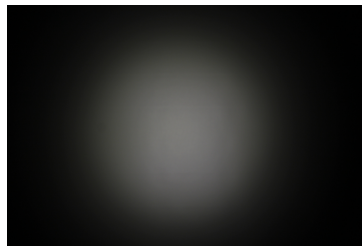
SEOUL SEMICONDUCTOR

LED Z5M3
 FWHM 31.0°
 Efficiency 94 %
 Peak intensity 2.700 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



SEOUL SEMICONDUCTOR

LED Z8Y22P
 FWHM 29.0°
 Efficiency 88 %
 Peak intensity 2.900 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



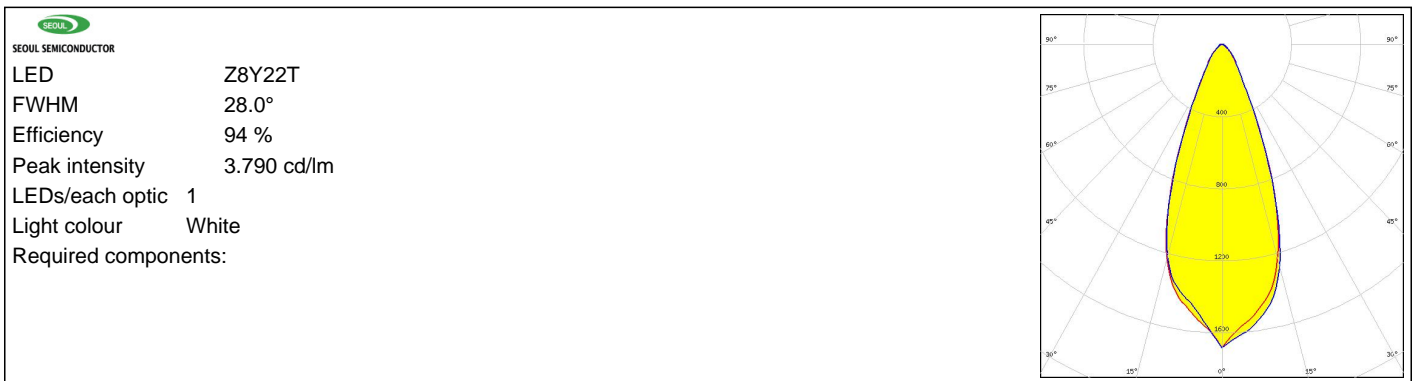
PHOTOMETRIC DATA (MEASURED):



PHOTOMETRIC DATA (SIMULATED):

<p>LUMILEDS</p> <p>LED LUXEON C FWHM 29.0° Efficiency 94 % Peak intensity 3.700 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>NICHIA</p> <p>LED NV4WB35AM FWHM 36.0° Efficiency 96 % Peak intensity 2.506 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>OSRAM <small>Opto Semiconductors</small></p> <p>LED OSCONIQ P 3030 FWHM 23.0° Efficiency 96 % Peak intensity 5.028 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>SAMSUNG</p> <p>LED LM28xB Series FWHM 29.0° Efficiency 94 % Peak intensity 3.450 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	

PHOTOMETRIC DATA (SIMULATED):



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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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

Salo, Finland
Hong Kong, China

Distribution Partners

[www.ledil.com/
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