

HEIDI-O-90

~13° x 45° oval beam optimized for Cree XP-G and XP-E. Variant with beam direction rotated 90°.

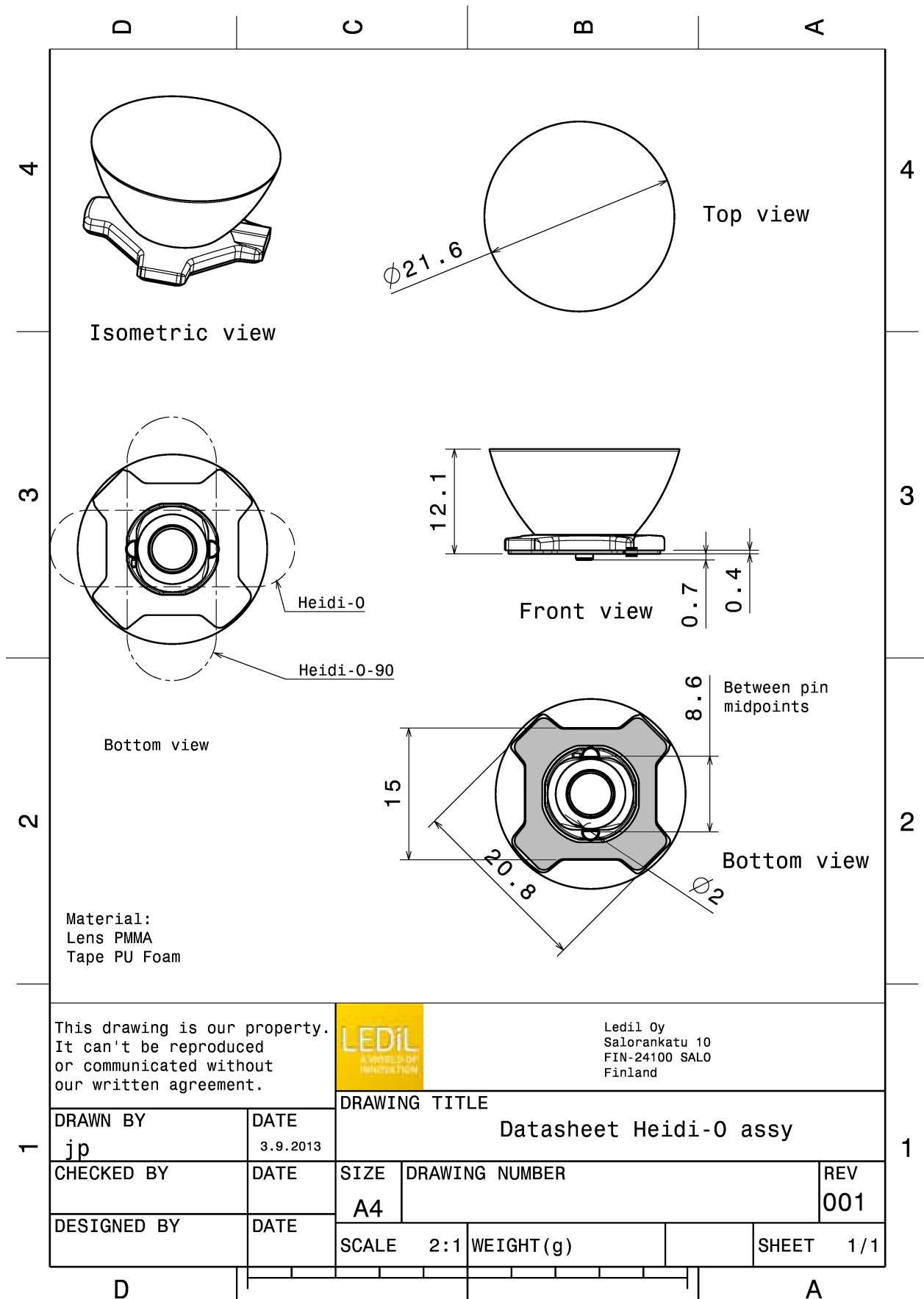
TECHNICAL SPECIFICATIONS:

Dimensions	Ø 21.6 mm
Height	12.1 mm
Fastening	tape, pin
Colour	clear
Box size	480 x 280 x 300 mm
Box weight	10.4 kg
Quantity in Box	3264 pcs
ROHS compliant	yes ⓘ



MATERIAL SPECIFICATIONS:

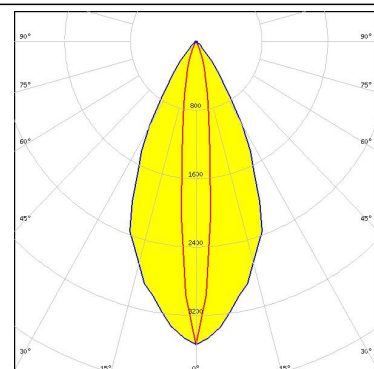
Component	Type	Material	Colour
HEIDI-O-90	Single lens	PMMA	clear
HEIDI-TAPE	Tape	PU tape	black



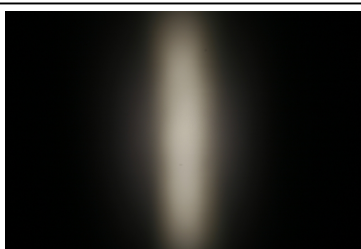
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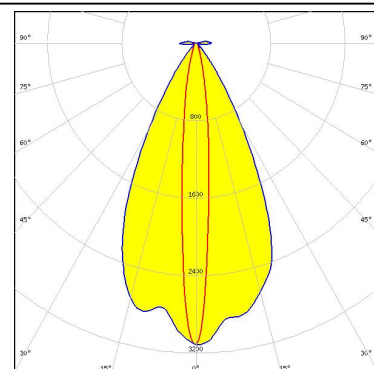
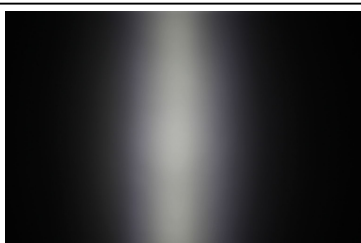
LED XB-D
FWHM 12.0 + 49.0°
Efficiency 87 %
Peak intensity 3.500 cd/lm
LEDs/each optic 1
Light colour White
Required components:



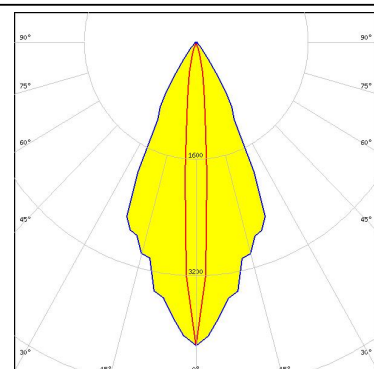
LED XB-H
FWHM 11.0 + 52.0°
Efficiency 80 %
Peak intensity 3.200 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED XD16
FWHM 11.0 + 52.0°
Efficiency 88 %
Peak intensity 3.100 cd/lm
LEDs/each optic 1
Light colour White
Required components:



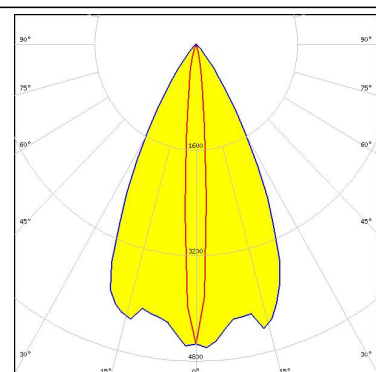
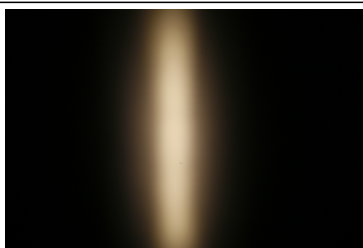
LED XP-E
FWHM 9.0 + 50.0°
Efficiency 87 %
Peak intensity 4.200 cd/lm
LEDs/each optic 1
Light colour White
Required components:



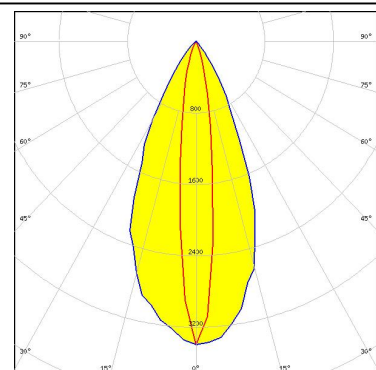
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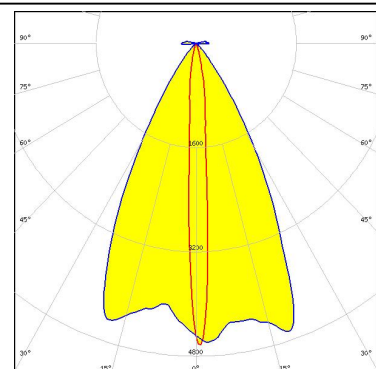
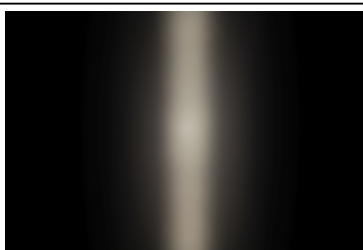
LED XP-E2
FWHM 9.0 + 55.0°
Efficiency 84 %
Peak intensity 4.600 cd/lm
LEDs/each optic 1
Light colour White
Required components:



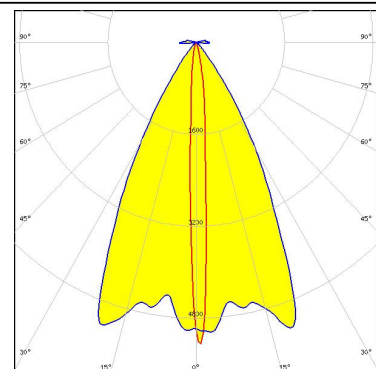
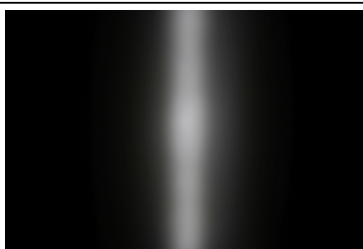
LED XP-G
FWHM 14.0 + 44.0°
Efficiency 87 %
Peak intensity 3.400 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED XQ-E HD
FWHM 7.0 + 56.0°
Efficiency 94 %
Peak intensity 4.700 cd/lm
LEDs/each optic 1
Light colour White
Required components:



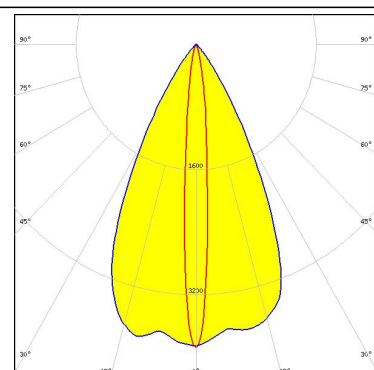
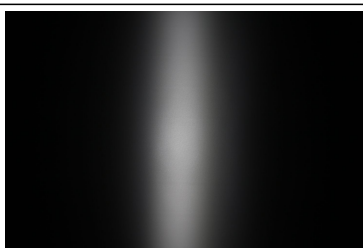
LED XQ-E HI
FWHM 6.0 + 57.0°
Efficiency 94 %
Peak intensity 5.300 cd/lm
LEDs/each optic 1
Light colour White
Required components:



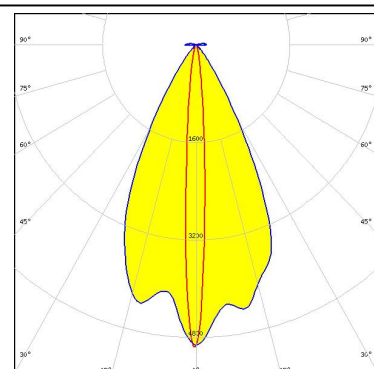
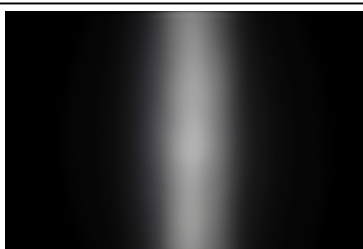
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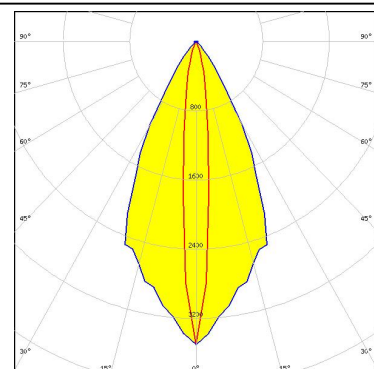
LED LUXEON C
FWHM 9.0 + 54.0°
Efficiency 79 %
Peak intensity 3.900 cd/lm
LEDs/each optic 1
Light colour White
Required components:



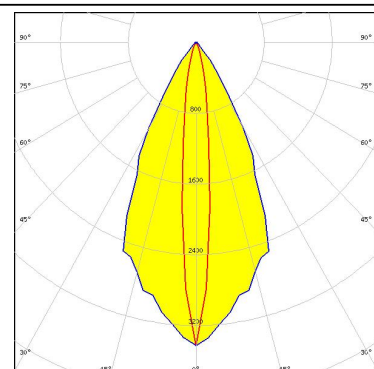
LED LUXEON CZ
FWHM 8.0 + 52.0°
Efficiency 92 %
Peak intensity 5.000 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED NCSxx19A
FWHM 10.0 + 50.0°
Efficiency 82 %
Peak intensity 3.500 cd/lm
LEDs/each optic 1
Light colour White
Required components:



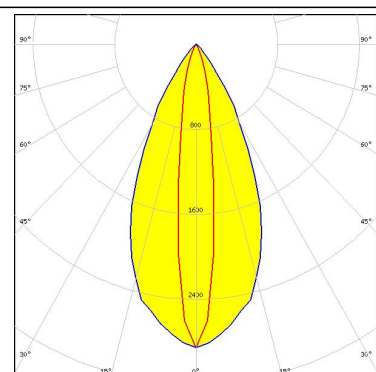
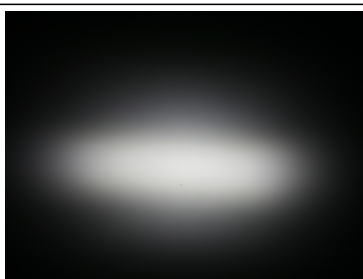
LED NVSxx19A
FWHM 10.0 + 49.0°
Efficiency 82 %
Peak intensity 3.400 cd/lm
LEDs/each optic 1
Light colour White
Required components:



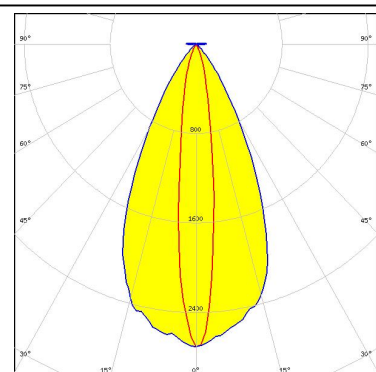
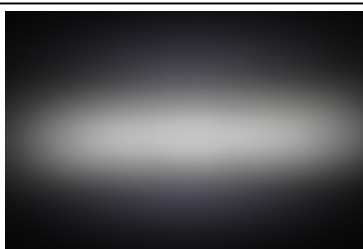
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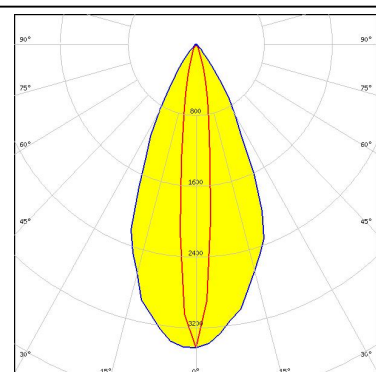
LED NVSxx19B/NVSxx19C
 FWHM 14.0 + 48.0°
 Efficiency 85 %
 Peak intensity 2.900 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



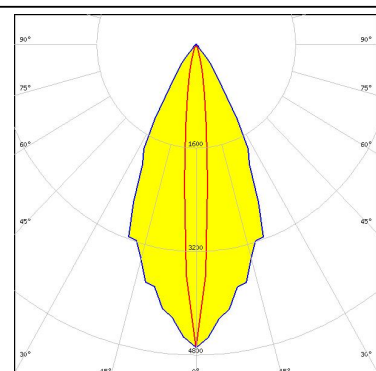
LED OSLOM Square CSSRM2/CSSRM3
 FWHM 15.0 + 51.0°
 Efficiency 78 %
 Peak intensity 2.710 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED OSLOM Square EC
 FWHM 12.0 + 48.0°
 Efficiency 86 %
 Peak intensity 3.400 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



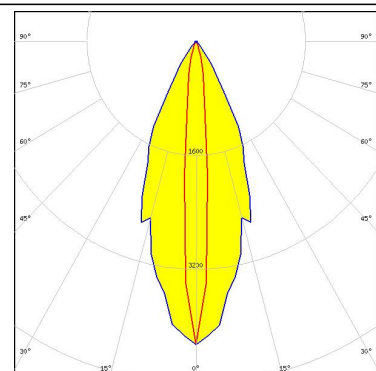
LED OSLOM SSL 150
 FWHM 9.0 + 48.0°
 Efficiency 86 %
 Peak intensity 4.700 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (MEASURED):

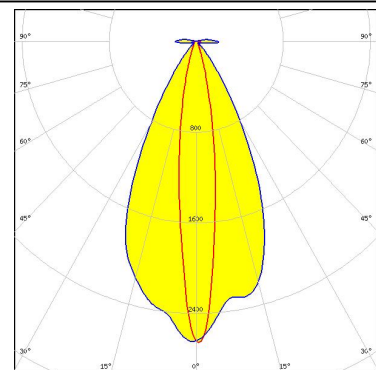
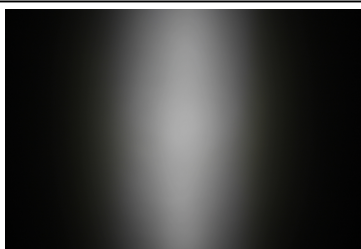
OSRAM
Opto Semiconductors

LED OSLON SSL 80
FWHM $9.0 + 42.0^\circ$
Efficiency 83 %
Peak intensity 4.300 cd/lm
LEDs/each optic 1
Light colour White
Required components:



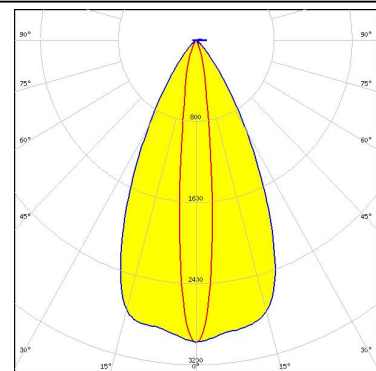
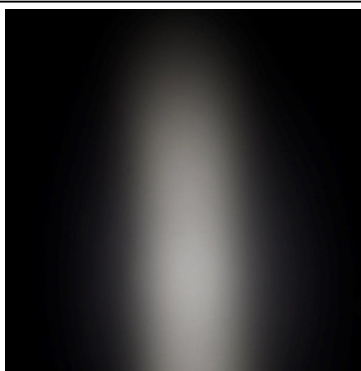
SAMSUNG

LED LH181B
FWHM $14.0 + 51.0^\circ$
Efficiency 89 %
Peak intensity 2.700 cd/lm
LEDs/each optic 1
Light colour White
Required components:



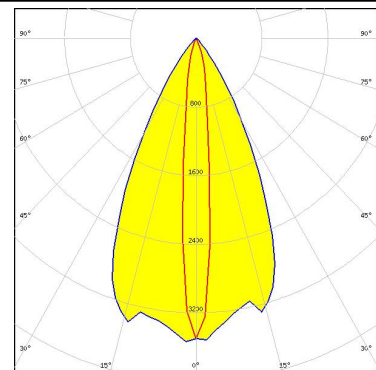
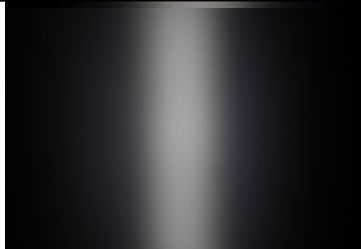
SAMSUNG

LED LH351B
FWHM $13.0 + 52.0^\circ$
Efficiency 83 %
Peak intensity 3.000 cd/lm
LEDs/each optic 1
Light colour White
Required components:

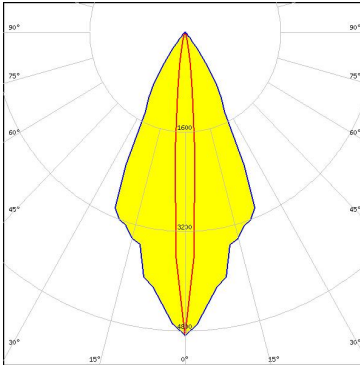
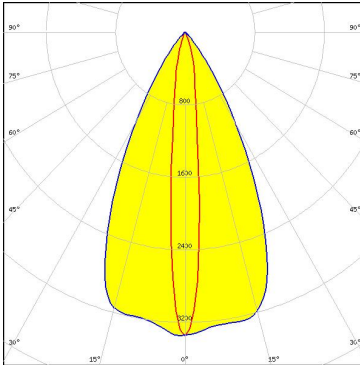
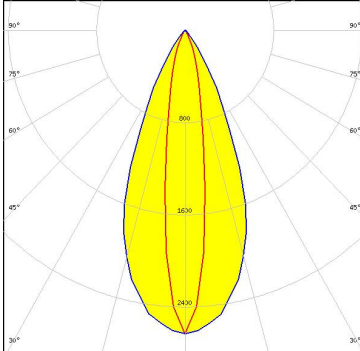


SAMSUNG

LED LH351Z
FWHM $11.0 + 54.0^\circ$
Efficiency 82 %
Peak intensity 3.500 cd/lm
LEDs/each optic 1
Light colour White
Required components:



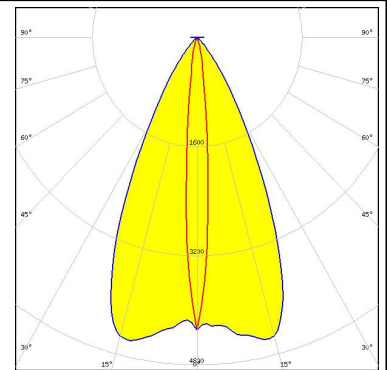
PHOTOMETRIC DATA (MEASURED):

SEOUL SEMICONDUCTOR LED Z5 FWHM 8.0 + 50.0° Efficiency 86 % Peak intensity 4.900 cd/lm LEDs/each optic 1 Light colour White Required components:	
SEOUL SEMICONDUCTOR LED Z5M1/Z5M2 FWHM 11.0 + 53.0° Efficiency 84 % Peak intensity 3.400 cd/lm LEDs/each optic 1 Light colour White Required components:	
SHARP LED Double Dome (GM2BB) FWHM 16.0 + 44.0° Efficiency 82 % Peak intensity 2.600 cd/lm LEDs/each optic 1 Light colour White Required components:	

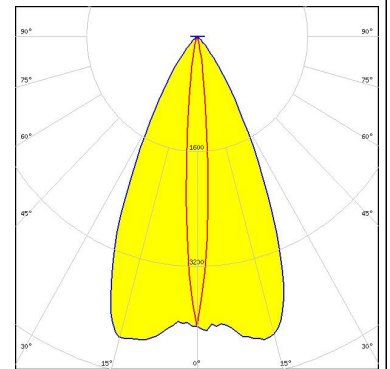
PHOTOMETRIC DATA (SIMULATED):



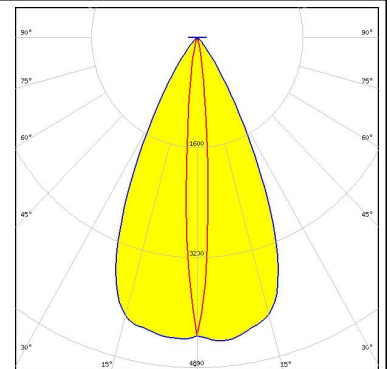
LED LUXEON SunPlus 20 Line (120 deg)
 FWHM 9.0 + 52.0°
 Efficiency 91 %
 Peak intensity 4.566 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



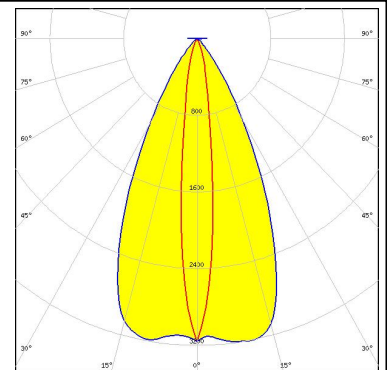
LED LUXEON SunPlus 20 Line (150 deg)
 FWHM 9.0 + 52.0°
 Efficiency 87 %
 Peak intensity 4.336 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED LUXEON Z ES
 FWHM 8.7 + 52.0°
 Efficiency 92 %
 Peak intensity 4.430 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



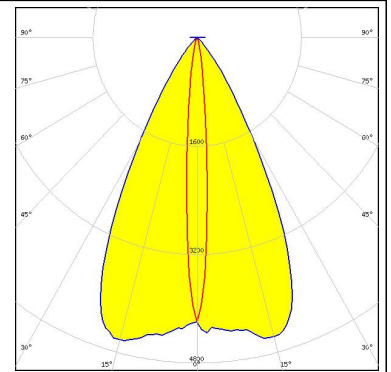
LED NVSxx19B/NVSxx19C
 FWHM 12.0 + 52.0°
 Efficiency 90 %
 Peak intensity 3.206 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (SIMULATED):

OSRAM
Opto Semiconductors

LED OSCONIQ P 3030
FWHM 7.9 + 55.0°
Efficiency 93 %
Peak intensity 4.617 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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