

HB-2X2-RS

~10° spot beam

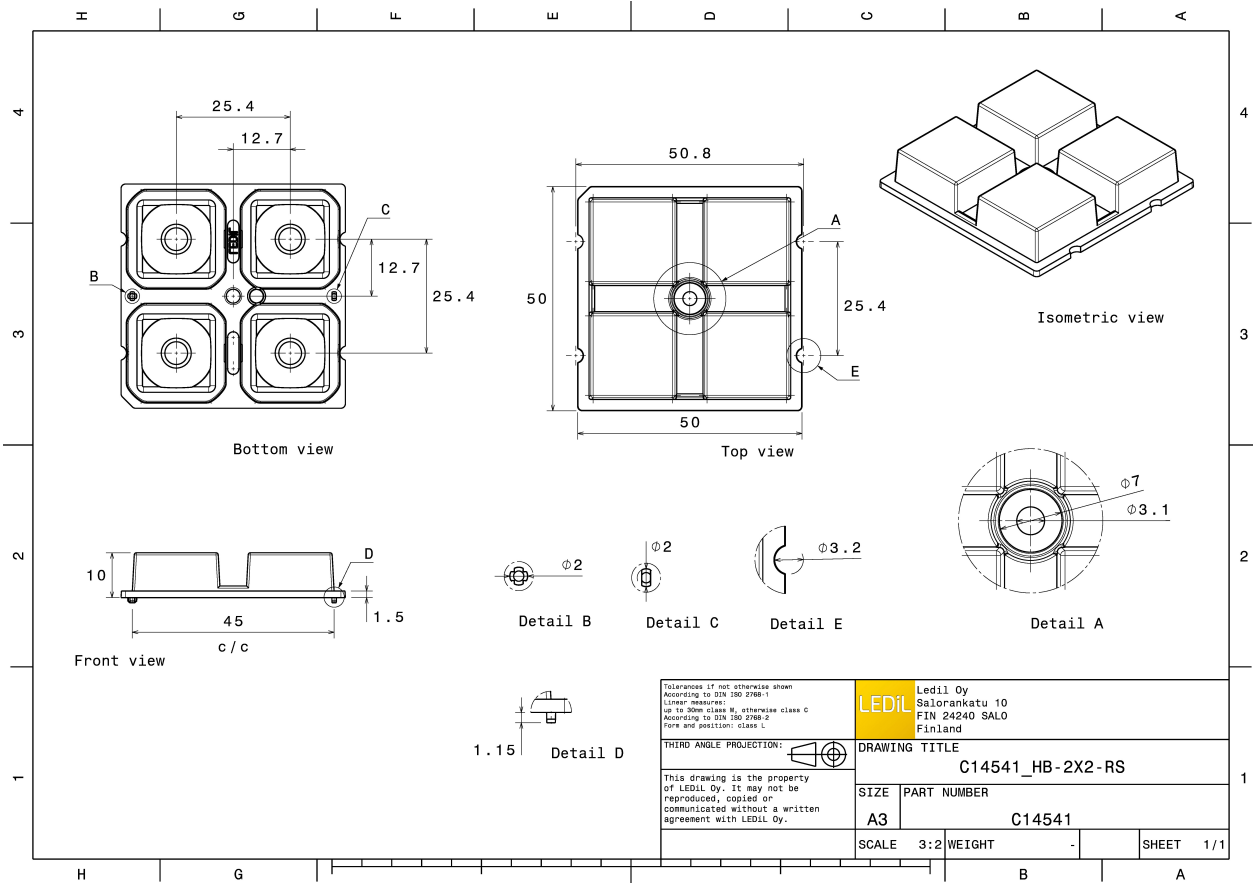
TECHNICAL SPECIFICATIONS:

Dimensions	50.0 mm
Height	10 mm
Fastening	screw
Colour	clear
Box size	480 x 280 x 300 mm
Box weight	10.2 kg
Quantity in Box	800 pcs
ROHS compliant	yes ⓘ


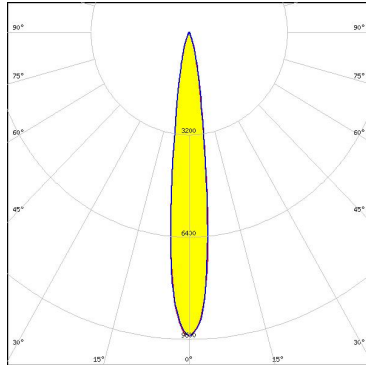

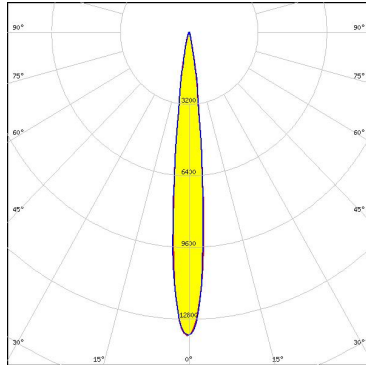
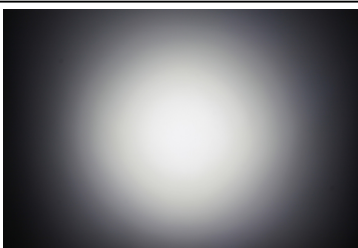
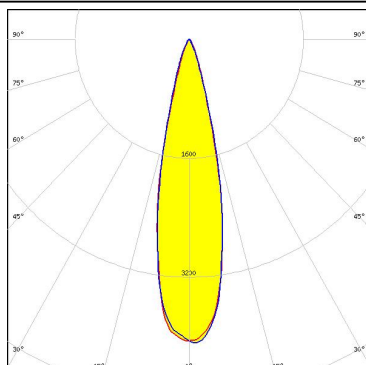

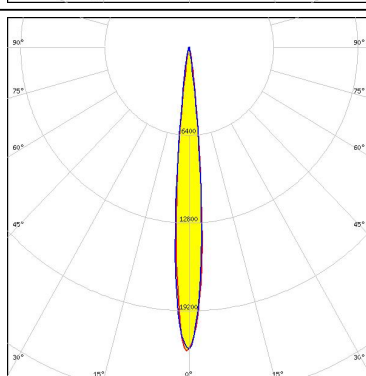


MATERIAL SPECIFICATIONS:

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



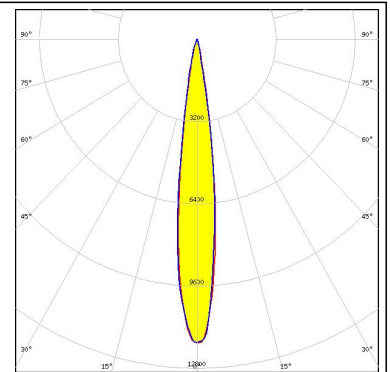
PHOTOMETRIC DATA (MEASURED):

<p>COMET ELECTRONICS</p> <p>LED QUICK FLUX XTP 2x6 xxx LS G5 FWHM 14.0° Efficiency 94 % Peak intensity 9.500 cd/m LEDs/each optic 1 Light colour White Required components:</p>		
<p>CREE</p> <p>LED XD16 FWHM 11.0° Efficiency 93 % Peak intensity 13.500 cd/m LEDs/each optic 1 Light colour White Required components:</p>		
<p>CREE</p> <p>LED XHP35 HD FWHM 24.0° Efficiency 89 % Peak intensity 4.100 cd/m LEDs/each optic 1 Light colour White Required components:</p>		
<p>CREE</p> <p>LED XP-E2 FWHM 10.0° Efficiency 94 % Peak intensity 22.100 cd/m LEDs/each optic 1 Light colour White Required components:</p>		

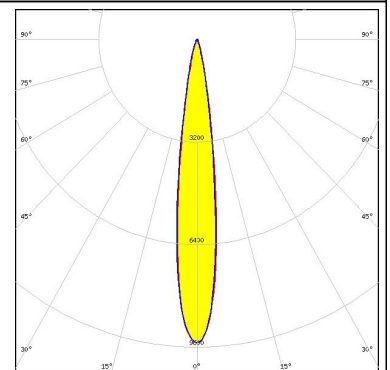
PHOTOMETRIC DATA (MEASURED):



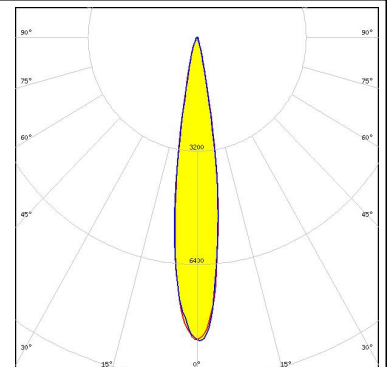
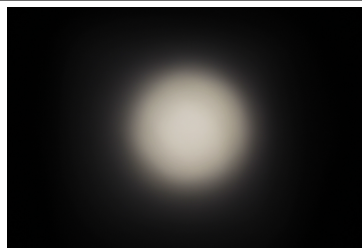
LED XP-G2
 FWHM 14.0°
 Efficiency 94 %
 Peak intensity 11.800 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



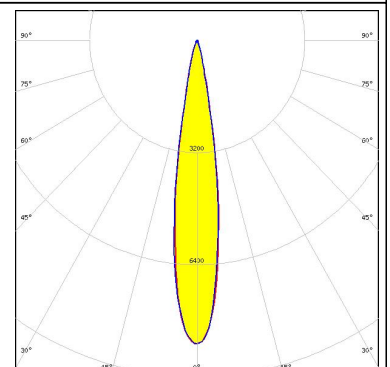
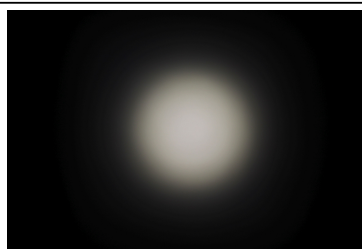
LED LUXEON V2
 FWHM 15.0°
 Efficiency 94 %
 Peak intensity 9.500 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED NVSW219D
 FWHM 17.0°
 Efficiency 94 %
 Peak intensity 8.600 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



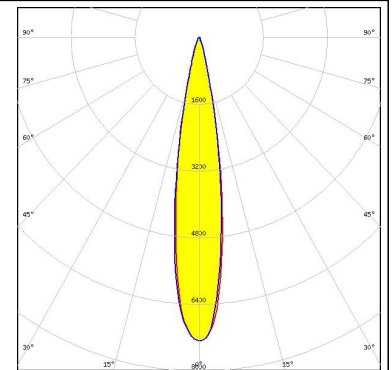
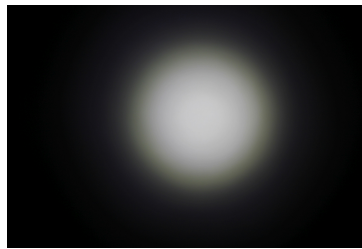
LED NVSW219F
 FWHM 17.0°
 Efficiency 94 %
 Peak intensity 8.700 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



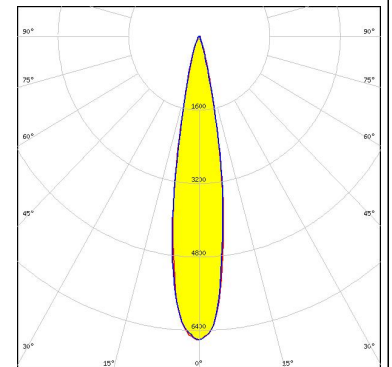
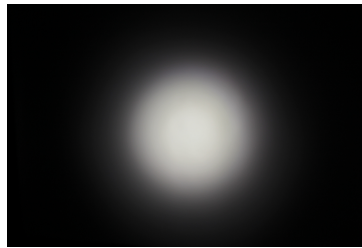
PHOTOMETRIC DATA (MEASURED):



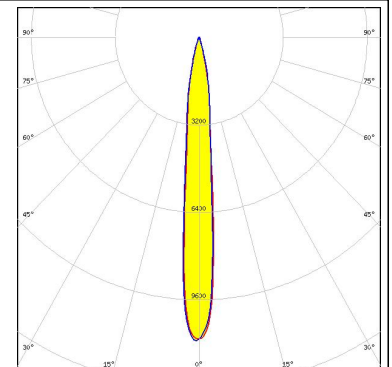
LED NVSW319B
 FWHM 18.0°
 Efficiency 94 %
 Peak intensity 7.300 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



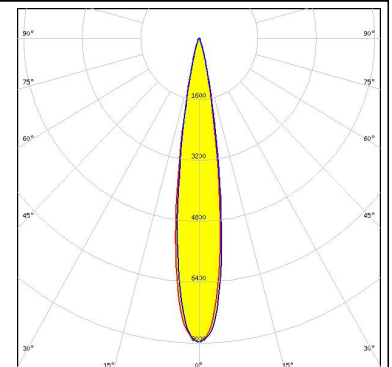
LED NVSW3x9A
 FWHM 19.0°
 Efficiency 94 %
 Peak intensity 6.600 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED NVSxE21A
 FWHM 11.0°
 Efficiency 89 %
 Peak intensity 11.100 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



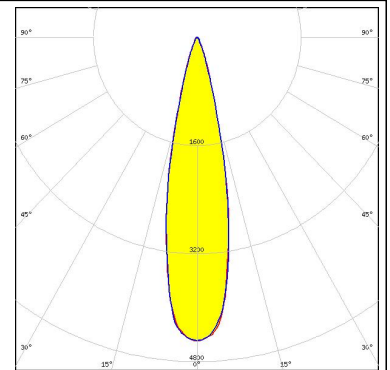
LED NVSxx19B/NVSxx19C
 FWHM 17.0°
 Efficiency 93 %
 Peak intensity 8.000 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



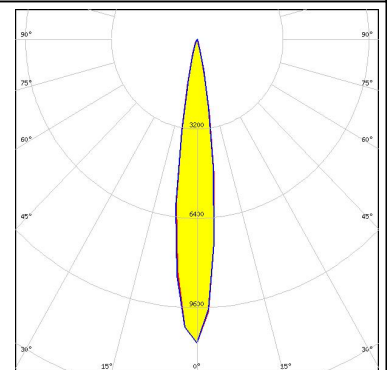
PHOTOMETRIC DATA (MEASURED):



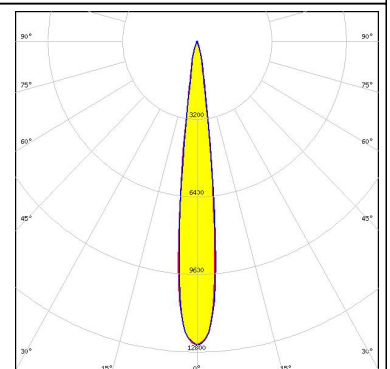
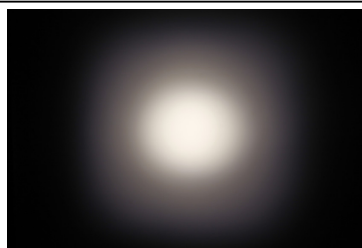
LED NWSx229A
 FWHM 23.0°
 Efficiency 94 %
 Peak intensity 4.500 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



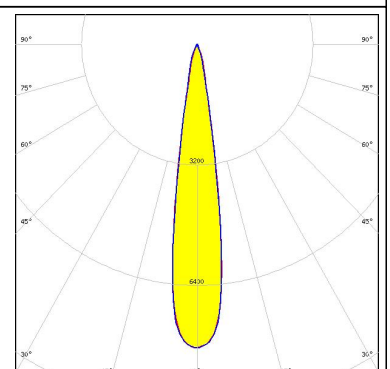
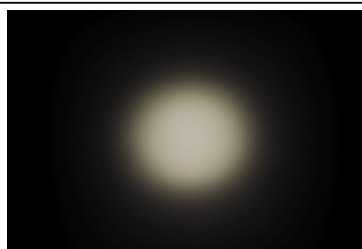
LED Oslon Square Gen3
 FWHM 15.0°
 Efficiency 90 %
 Peak intensity 11.000 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED Fortimo FastFlex LED 2x8 DA G4
 FWHM 13.0°
 Efficiency 93 %
 Peak intensity 12.500 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



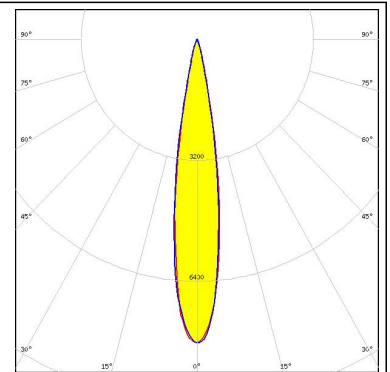
LED HiLOM RH16 (LH351C)
 FWHM 17.0°
 Efficiency 94 %
 Peak intensity 8.100 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (MEASURED):

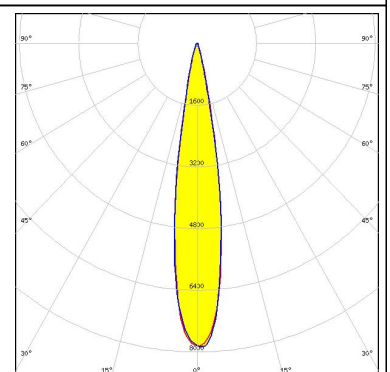
SAMSUNG

LED LH351B
 FWHM 17.0°
 Efficiency 89 %
 Peak intensity 8.040 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:



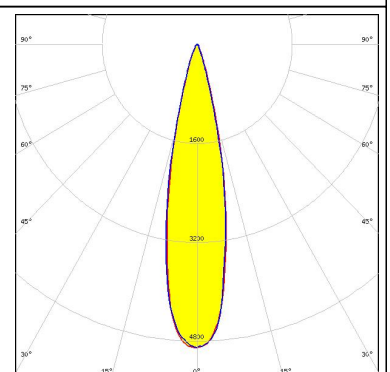
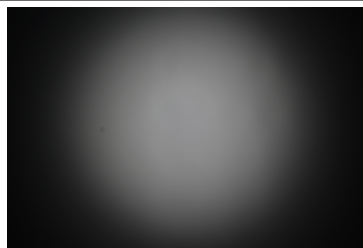
SAMSUNG

LED LH351C
 FWHM 18.0°
 Efficiency 94 %
 Peak intensity 7.900 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:



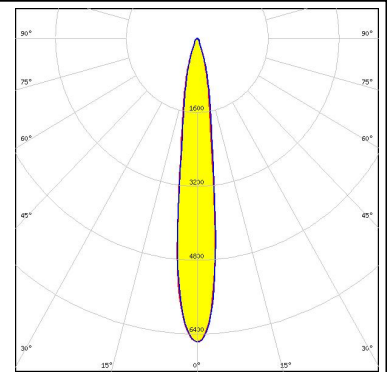
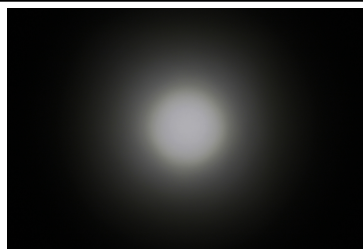
SAMSUNG

LED LH351D
 FWHM 22.0°
 Efficiency 94 %
 Peak intensity 4.900 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:



SEOUL SEMICONDUCTOR

LED Z8Y22
 FWHM 14.0°
 Efficiency 94 %
 Peak intensity 6.600 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (MEASURED):

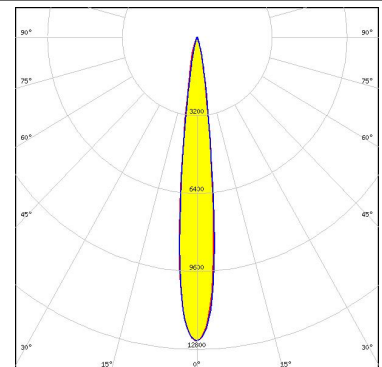
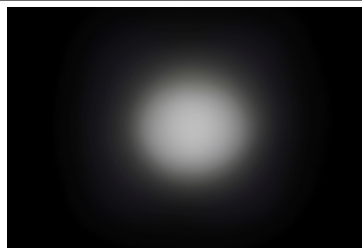
			
LED	Z8Y22P		
FWHM	16.0°		
Efficiency	93 %		
Peak intensity	6.900 cd/m		
LEDs/each optic	1		
Light colour	White		
Required components:			

TRIDONIC

LED RLE 2x4 2000lm HP EXC2 OTD
 FWHM 13.0°
 Efficiency 94 %
 Peak intensity 12.500 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:

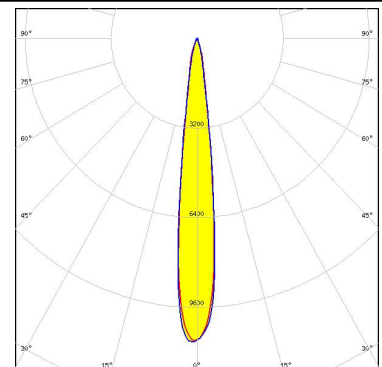
TRIDONIC

LED RLE 2x8 4000lm HP EXC2 OTD
 FWHM 13.0°
 Efficiency 94 %
 Peak intensity 12.500 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:



TRIDONIC

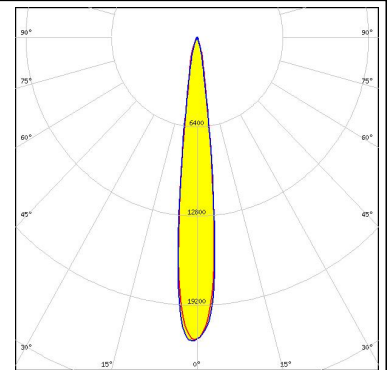
LED RLE G1 49x121mm 2000lm xxx EXC OTD
 FWHM 13.0°
 Efficiency 94 %
 Peak intensity 10.900 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (MEASURED):

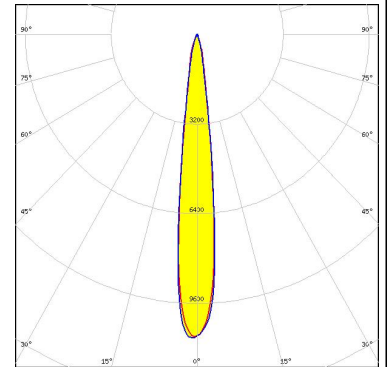
TRIDONIC

LED RLE G1 49x133mm 2000lm xxx EXC OTD
FWHM 13.0°
Efficiency 94 %
Peak intensity 10.900 cd/lm
LEDs/each optic 1
Light colour White
Required components:



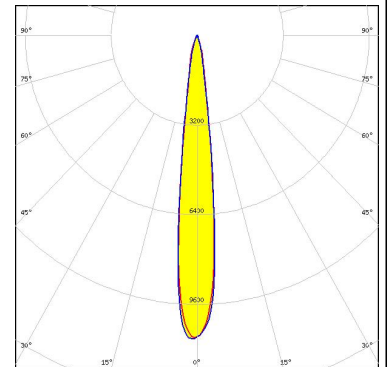
TRIDONIC

LED RLE G1 49x223mm 4000lm xxx EXC OTD
FWHM 13.0°
Efficiency 94 %
Peak intensity 10.900 cd/lm
LEDs/each optic 1
Light colour White
Required components:



TRIDONIC

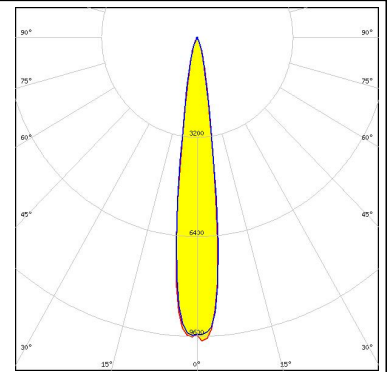
LED RLE G1 49x245mm 4000lm xxx EXC OTD
FWHM 13.0°
Efficiency 94 %
Peak intensity 10.900 cd/lm
LEDs/each optic 1
Light colour White
Required components:



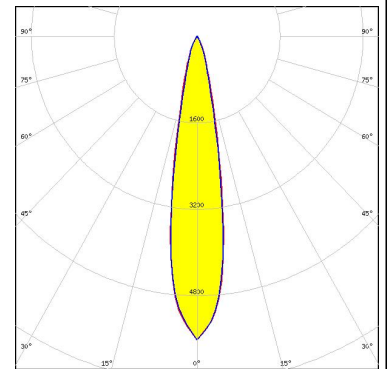
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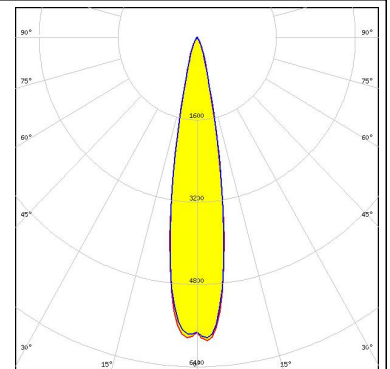
LED XHP35 HI
 FWHM 14.0°
 Efficiency 93 %
 Peak intensity 9.900 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



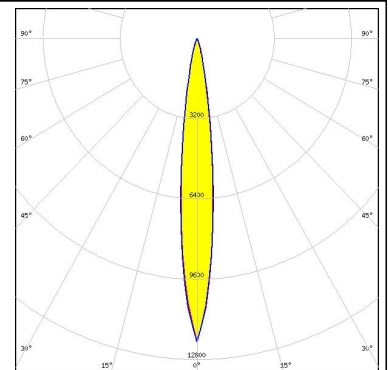
LED XM-L
 FWHM 19.0°
 Efficiency 92 %
 Peak intensity 5.620 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED XM-L2
 FWHM 18.0°
 Efficiency 95 %
 Peak intensity 6.900 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



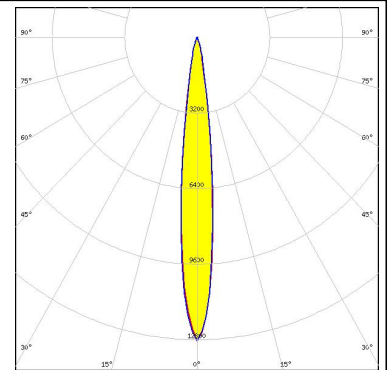
LED XP-G
 FWHM 13.0°
 Efficiency 93 %
 Peak intensity 12.100 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



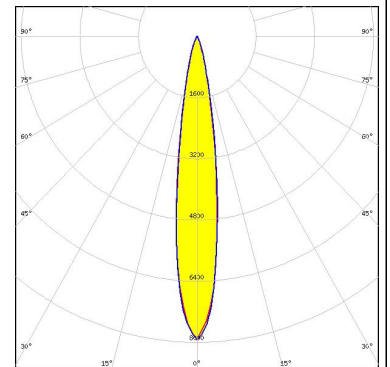
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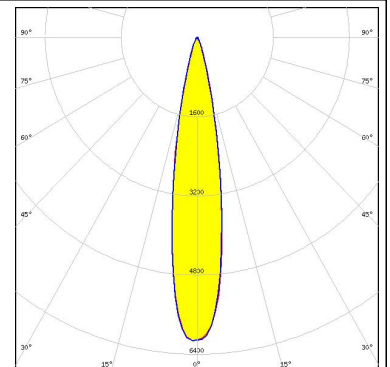
LED XP-G2
 FWHM 12.0°
 Efficiency 92 %
 Peak intensity 12.800 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 Undefined Manufacturer: Protective Plate, Glass



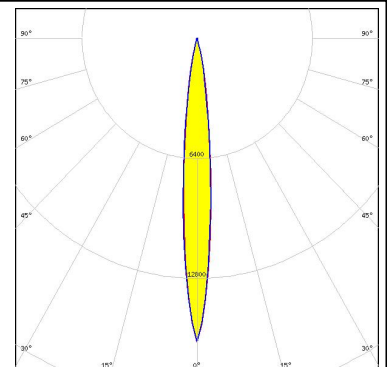
LED XP-G3
 FWHM 16.0°
 Efficiency 94 %
 Peak intensity 7.940 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED XP-L HD
 FWHM 19.0°
 Efficiency 94 %
 Peak intensity 6.140 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED LUXEON C
 FWHM 11.0°
 Efficiency 94 %
 Peak intensity 16.200 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

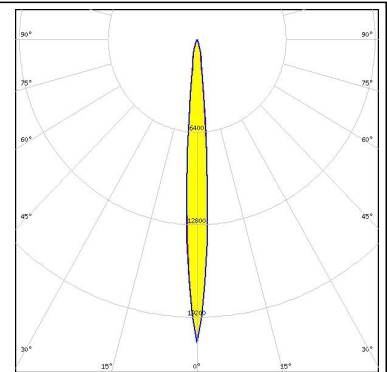


PHOTOMETRIC DATA (SIMULATED):

OSRAM

Opto Semiconductors

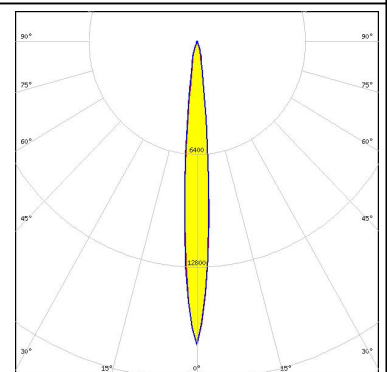
LED Oslon SSL 80
 FWHM 8.2°
 Efficiency 94 %
 Peak intensity 21.000 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM

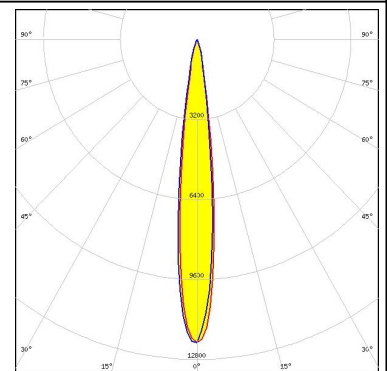
Opto Semiconductors

LED SFH 4715AS
 FWHM 9.2°
 Efficiency %
 Peak intensity cd/lm
 LEDs/each optic 1
 Light colour IR
 Required components:



SEOUL SEMICONDUCTOR

LED Z5M1/Z5M2
 FWHM 13.0°
 Efficiency 92 %
 Peak intensity 12.100 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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Hong Kong, China

Distribution Partners

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