

HB-2X2-O

~20° 115° oval beam for aisle lighting

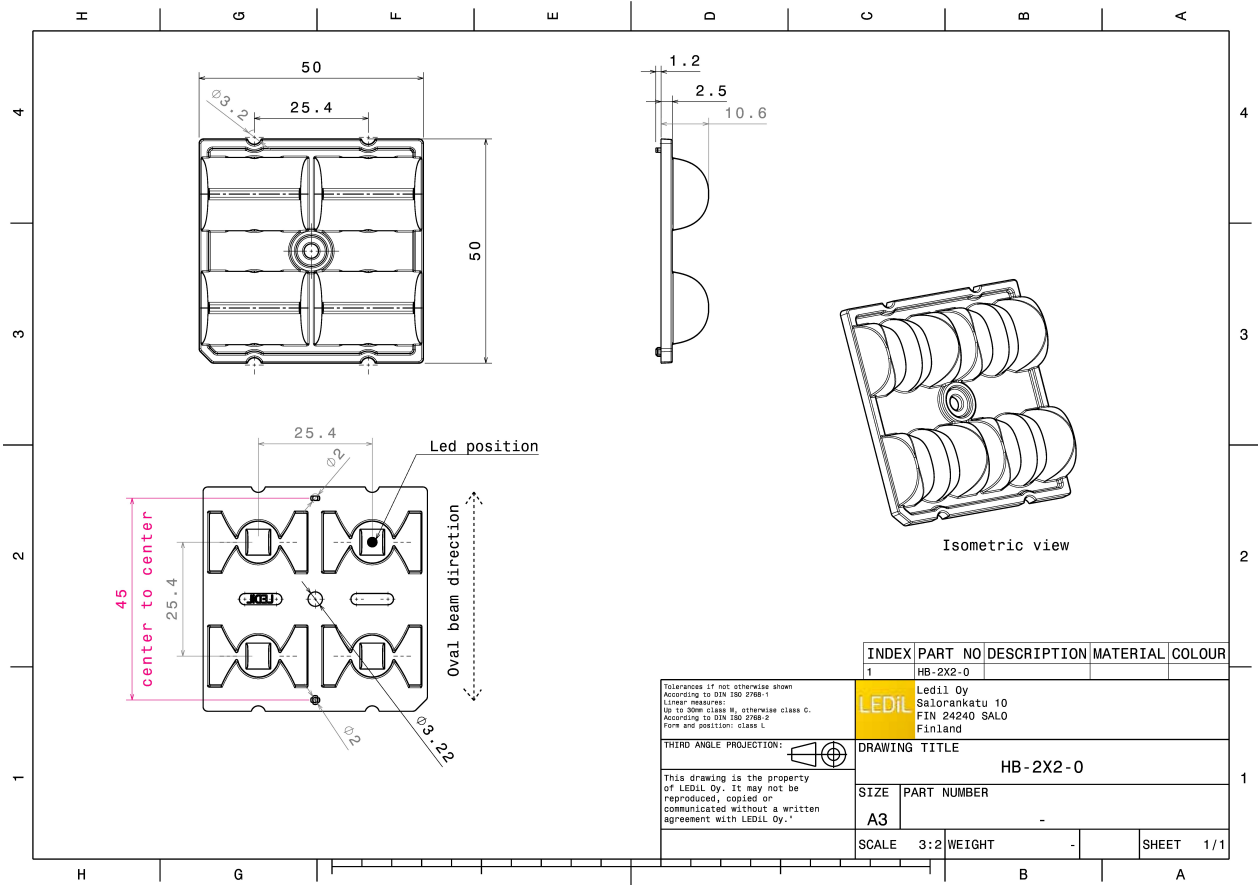
TECHNICAL SPECIFICATIONS:

Dimensions	50 + 50 mm
Height	10.6 mm
Fastening	glue, screw, pin
Colour	clear
Box size	480 x 280 x 300 mm
Box weight	10.4 kg
Quantity in Box	800 pcs
ROHS compliant	yes ⓘ



MATERIAL SPECIFICATIONS:

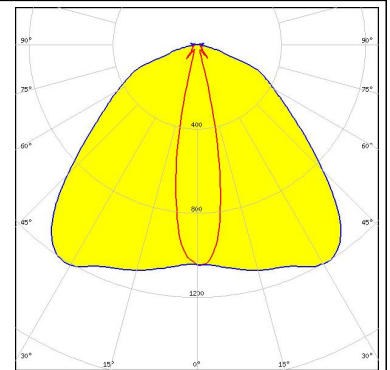
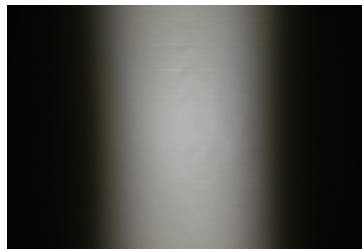
Component	Type	Material	Colour
HB-2X2-O	Lens	PMMA	clear



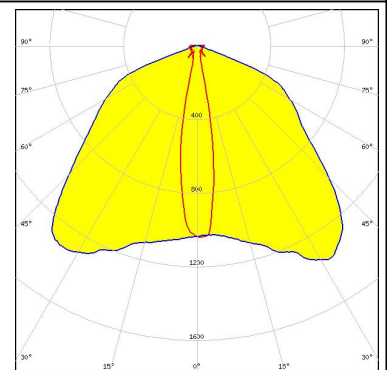
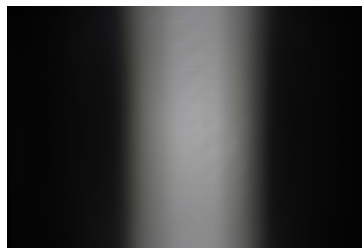
PHOTOMETRIC DATA (MEASURED):



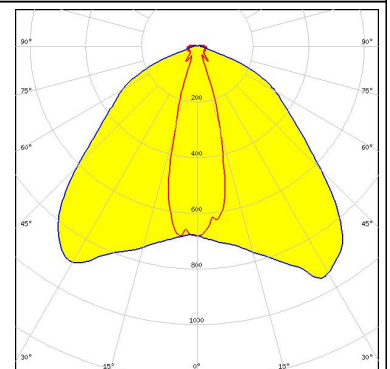
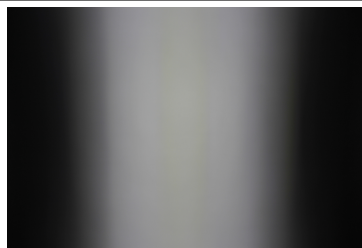
LED QUICK FLUX XTP 2x6 xxx LS G5
 FWHM 22.0 + 111.0°
 Efficiency 94 %
 Peak intensity 1.200 cd/lm
 Required components:



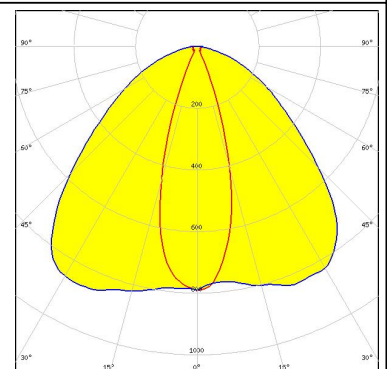
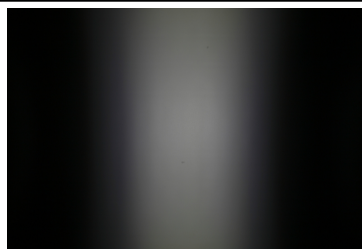
LED XD16
 FWHM 19.0 + 127.0°
 Efficiency 93 %
 Peak intensity 1.400 cd/lm
 Required components:



LED XD16 2x2 cluster
 FWHM 29.0 + 116.0°
 Efficiency 94 %
 Peak intensity 0.950 cd/lm
 Required components:



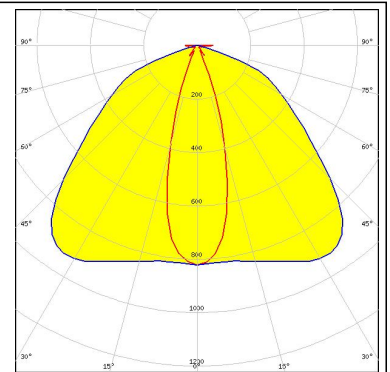
LED XM-L
 FWHM 29.0 + 109.0°
 Efficiency 94 %
 Peak intensity 0.980 cd/lm
 Required components:



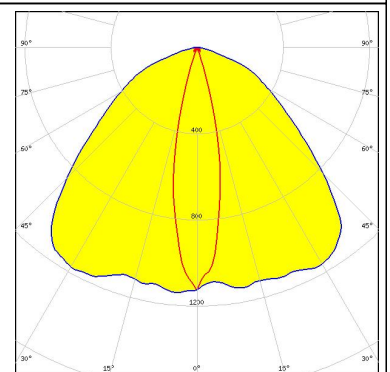
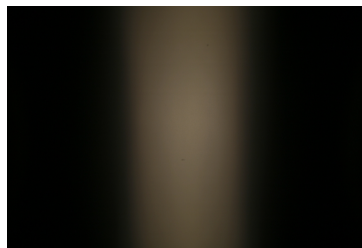
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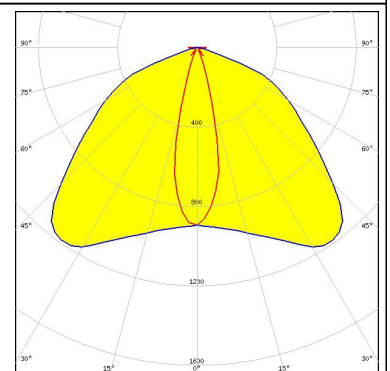
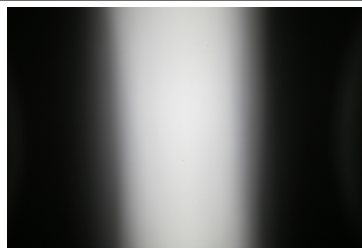
LED XM-L2
 FWHM 30.0 + 106.0°
 Efficiency 94 %
 Peak intensity 1.000 cd/lm
 Required components:



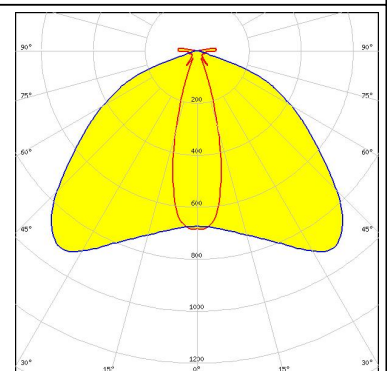
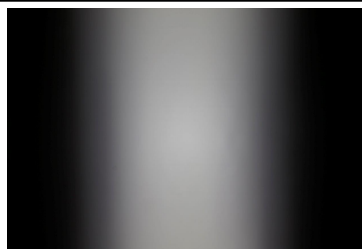
LED XP-G
 FWHM 26.0 + 115.0°
 Efficiency 94 %
 Peak intensity 1.130 cd/lm
 Required components:



LED XP-G2
 FWHM 27.0 + 112.0°
 Efficiency 94 %
 Peak intensity 1.200 cd/lm
 Required components:



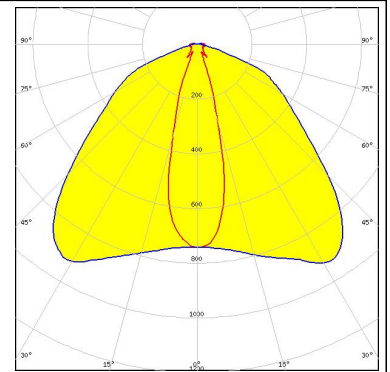
LED XP-L
 FWHM 29.0 + 117.0°
 Efficiency 94 %
 Peak intensity 0.890 cd/lm
 Required components:



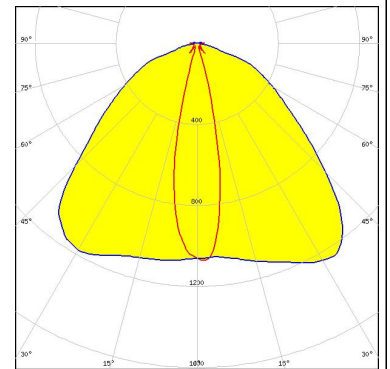
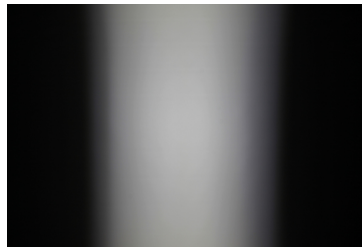
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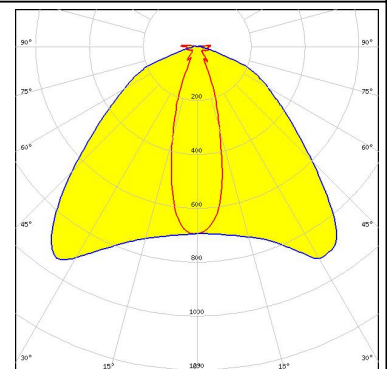
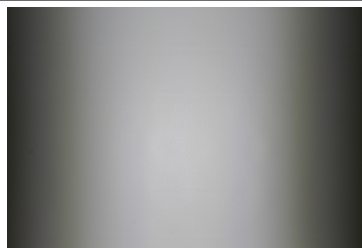
LED XP-L2
 FWHM 28.0 + 117.0°
 Efficiency 94 %
 Peak intensity 0.930 cd/lm
 Required components:



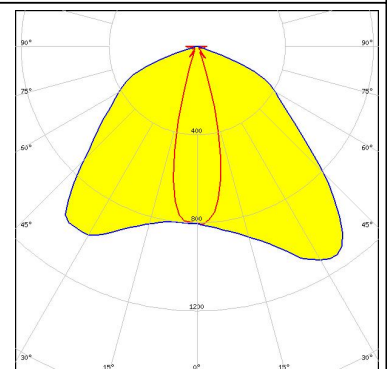
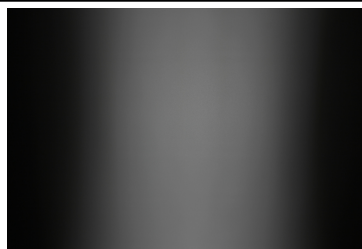
LED H35C1 (LEMWA33)
 FWHM 23.0 + 110.0°
 Efficiency 94 %
 Peak intensity 1.200 cd/lm
 Required components:



LED LUXEON 5050
 FWHM 29.0 + 114.0°
 Efficiency 94 %
 Peak intensity 0.940 cd/lm
 Required components:



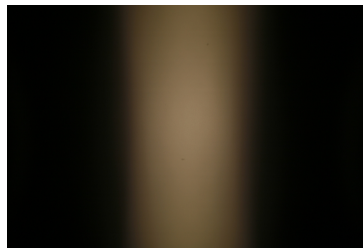
LED LUXEON MZ
 FWHM 28.0 + 103.0°
 Efficiency 94 %
 Peak intensity 1.100 cd/lm
 Required components:



PHOTOMETRIC DATA (MEASURED):

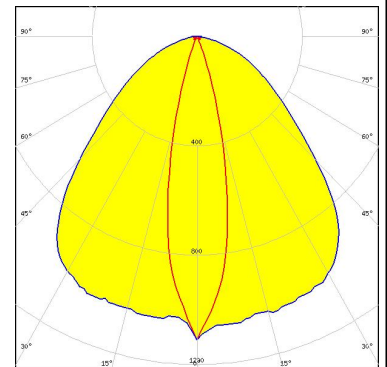
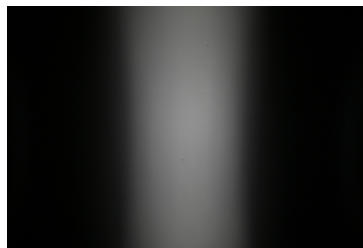
LUMILEDS

LED LUXEON R
FWHM 25.0 + 105.0°
Efficiency 94 %
Peak intensity 1.240 cd/lm
Required components:



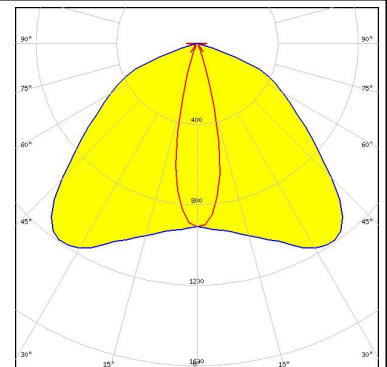
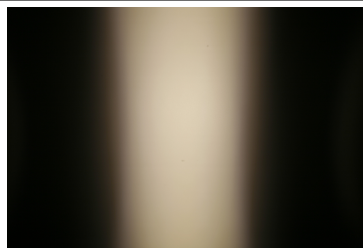
LUMILEDS

LED LUXEON Rebel ES
FWHM 25.0 + 106.0°
Efficiency 94 %
Peak intensity 1.200 cd/lm
Required components:



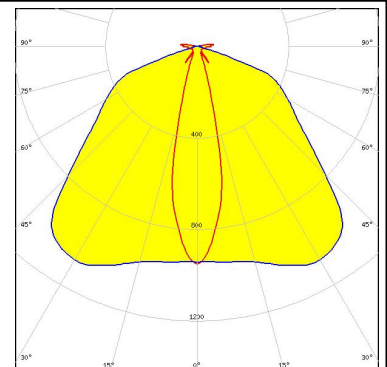
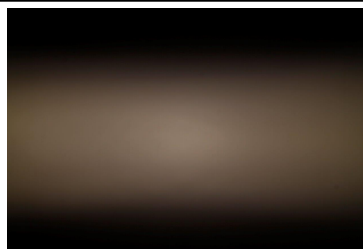
LUMILEDS

LED LUXEON T
FWHM 26.0 + 110.0°
Efficiency 94 %
Peak intensity 1.200 cd/lm
Required components:



LUMILEDS

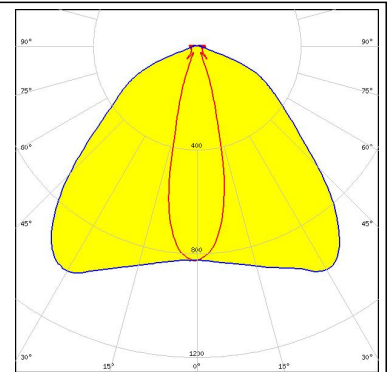
LED LUXEON TX
FWHM 24.0 + 118.0°
Efficiency 94 %
Peak intensity 1.080 cd/lm
Required components:



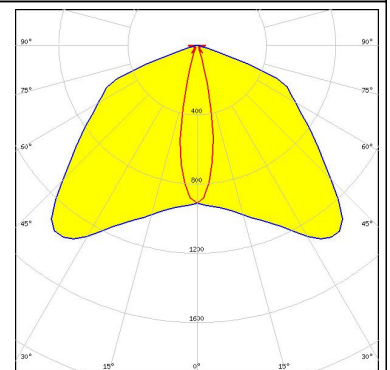
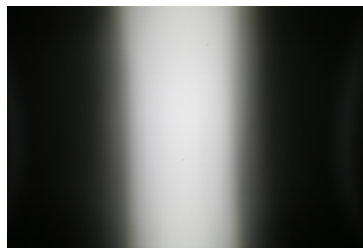
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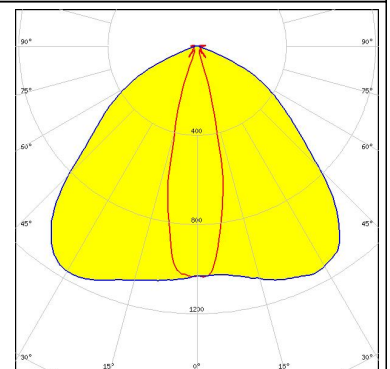
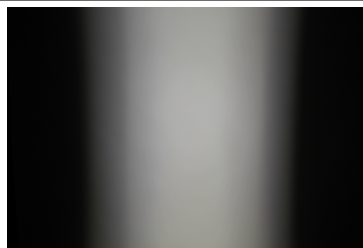
LED LUXEON V
FWHM 26.0 + 108.0°
Efficiency 94 %
Peak intensity 1.000 cd/lm
Required components:



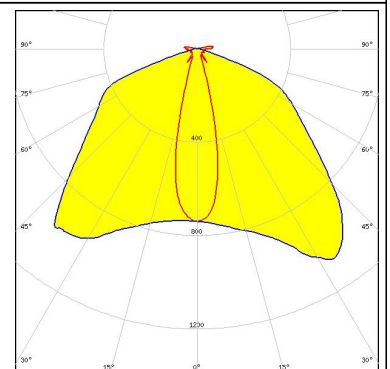
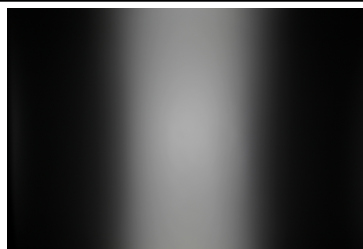
LED NCSxx19B
FWHM 23.0 + 113.0°
Efficiency 94 %
Peak intensity 1.400 cd/lm
Required components:



LED NVSW219D
FWHM 25.0 + 107.0°
Efficiency 94 %
Peak intensity 1.200 cd/lm
Required components:



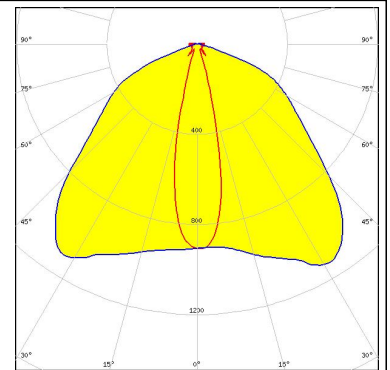
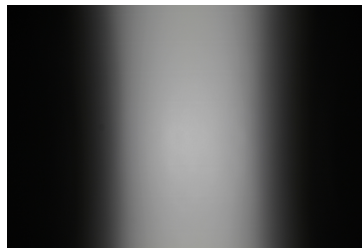
LED NVSW3x9A
FWHM 25.0 + 134.0°
Efficiency 93 %
Peak intensity 0.400 cd/lm
Required components:



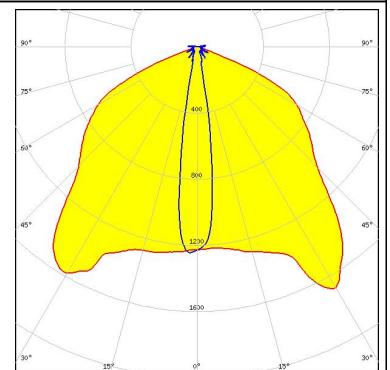
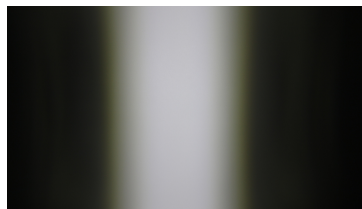
PHOTOMETRIC DATA (MEASURED):



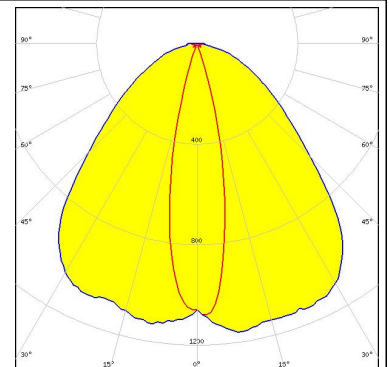
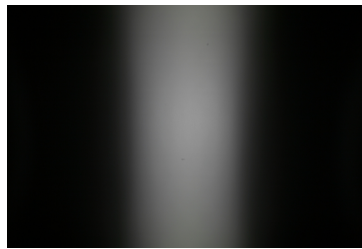
LED NVSW3x9A
 FWHM 24.0 + 119.0°
 Efficiency 94 %
 Peak intensity 1.100 cd/lm
 Required components:



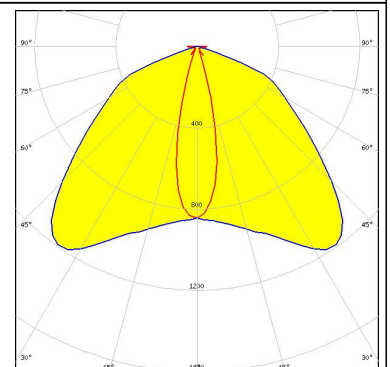
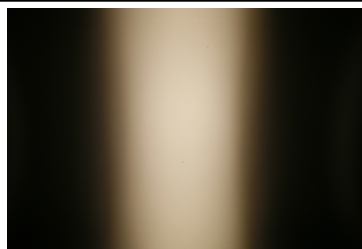
LED NVSxE21A
 FWHM 17.0 + 125.0°
 Efficiency 94 %
 Peak intensity 1.680 cd/lm
 Required components:



LED NVSxx19A
 FWHM 24.0 + 105.0°
 Efficiency 94 %
 Peak intensity 1.220 cd/lm
 Required components:



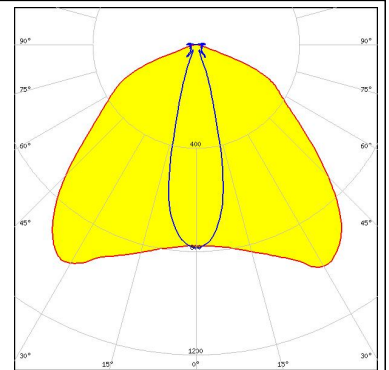
LED NVSxx19B/NVSxx19C
 FWHM 26.0 + 108.0°
 Efficiency 94 %
 Peak intensity 1.200 cd/lm
 Required components:



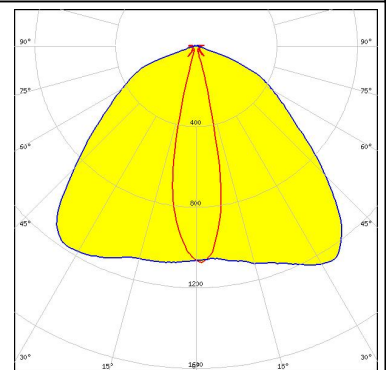
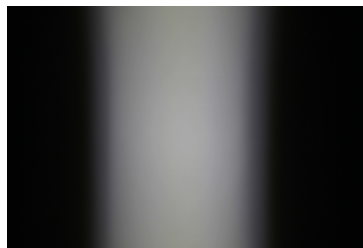
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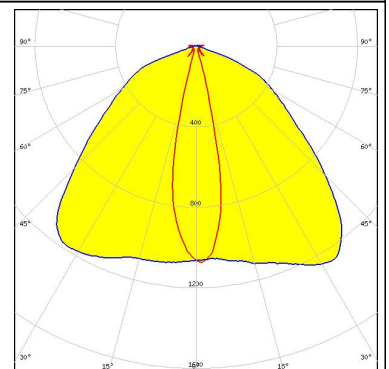
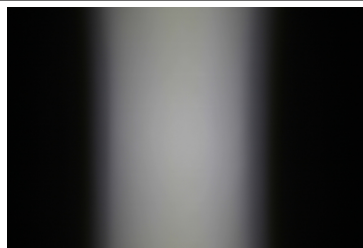
LED NWSx229A
 FWHM 27.0 + 118.0°
 Efficiency 94 %
 Peak intensity 1.000 cd/lm
 Required components:



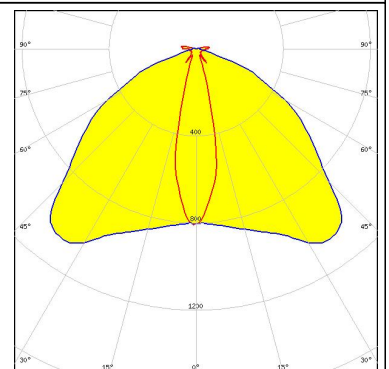
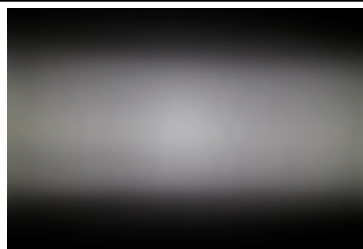
LED PrevaLED Brick DC 2x8
 FWHM 23.0 + 111.0°
 Efficiency 94 %
 Peak intensity 1.300 cd/lm
 Required components:



LED Oslon Square Gen3
 FWHM 23.0 + 111.0°
 Efficiency 94 %
 Peak intensity 1.300 cd/lm
 Required components:



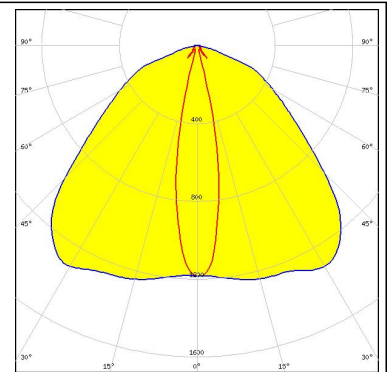
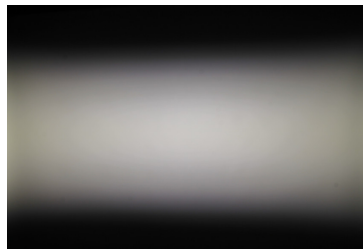
LED Oslon Square PC
 FWHM 25.0 + 124.0°
 Efficiency 91 %
 Peak intensity 1.070 cd/lm
 Required components:



PHOTOMETRIC DATA (MEASURED):

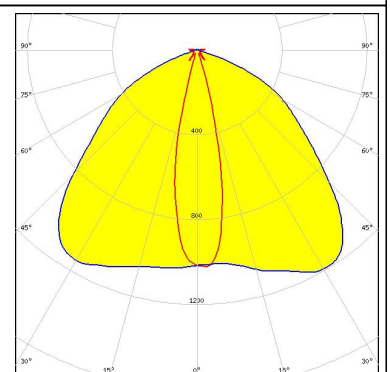
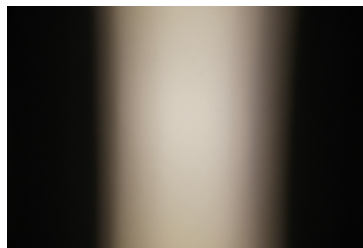
PHILIPS

LED Fortimo FastFlex LED board 2x8 DA G4
FWHM 21.0 + 108.0°
Efficiency 94 %
Peak intensity 1.300 cd/lm
Required components:



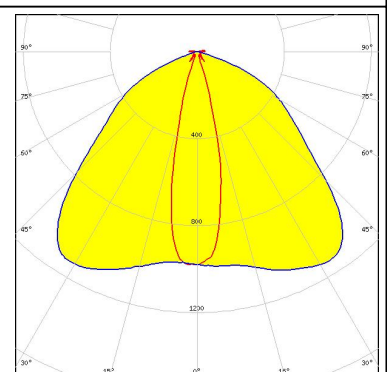
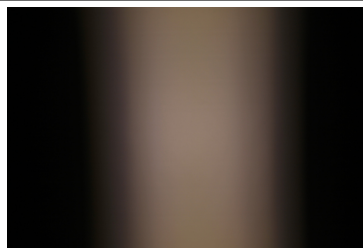
SAMSUNG

LED LH351B
FWHM 23.0 + 113.0°
Efficiency 94 %
Peak intensity 1.210 cd/lm
Required components:



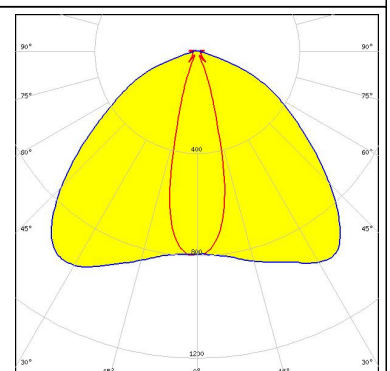
SAMSUNG

LED LH351C
FWHM 24.0 + 111.0°
Efficiency 94 %
Peak intensity 1.100 cd/lm
Required components:



SAMSUNG

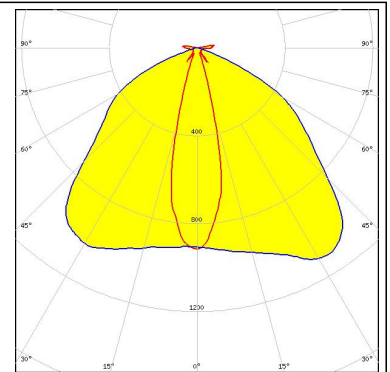
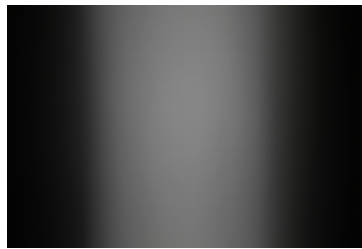
LED LH351D
FWHM 27.0 + 116.0°
Efficiency 94 %
Peak intensity 0.970 cd/lm
Required components:



PHOTOMETRIC DATA (MEASURED):

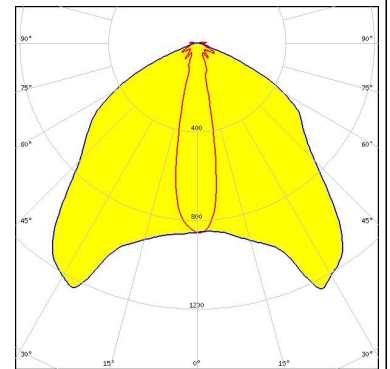
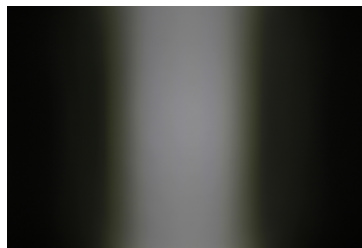
SAMSUNG

LED LH351Z
FWHM 26.0 + 117.0°
Efficiency 94 %
Peak intensity 1.100 cd/lm
Required components:



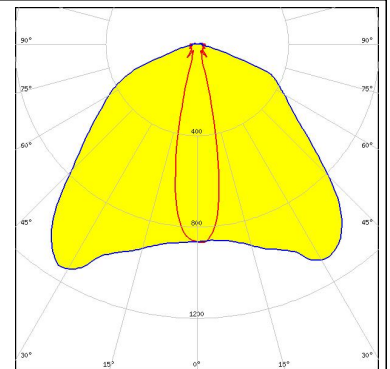
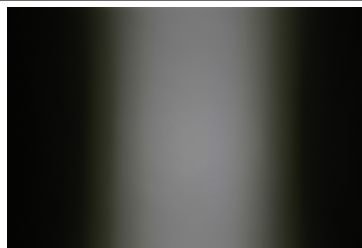
SEOUL SEMICONDUCTOR

LED Z8Y22
FWHM 21.0 + 121.0°
Efficiency 94 %
Peak intensity 1.200 cd/lm
Required components:



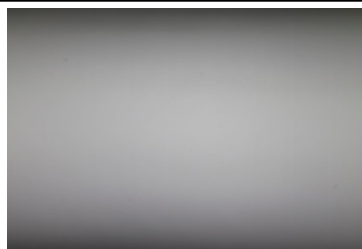
SEOUL SEMICONDUCTOR

LED Z8Y22P
FWHM 23.0 + 121.0°
Efficiency 94 %
Peak intensity 1.100 cd/lm
Required components:



Leading Innovation

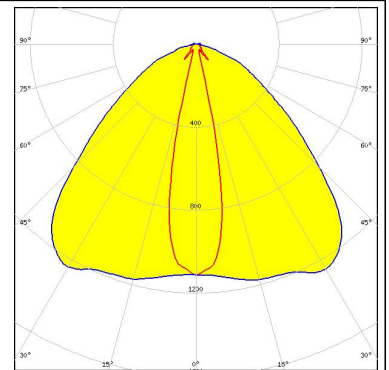
LED TL1L4
FWHM 24.0 + 119.0°
Efficiency 89 %
Peak intensity 1.100 cd/lm
Required components:



PHOTOMETRIC DATA (MEASURED):

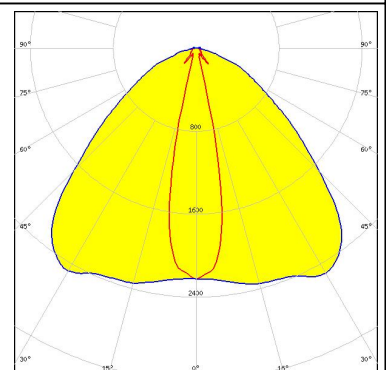
TRIDONIC

LED RLE G1 49x121mm 2000lm xxx EXC OTD
FWHM 23.0 + 104.0°
Efficiency 94 %
Peak intensity 1.300 cd/lm
Required components:



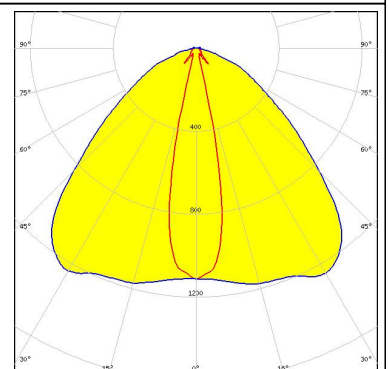
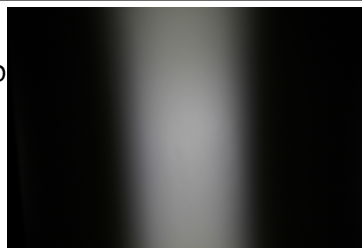
TRIDONIC

LED RLE G1 49x133mm 2000lm xxx EXC OTD
FWHM 23.0 + 104.0°
Efficiency 94 %
Peak intensity 1.300 cd/lm
Required components:



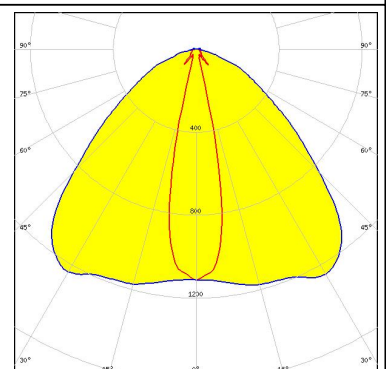
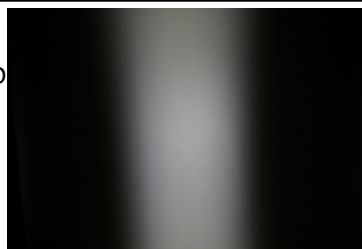
TRIDONIC

LED RLE G1 49x223mm 4000lm xxx EXC OTD
FWHM 23.0 + 104.0°
Efficiency 94 %
Peak intensity 1.300 cd/lm
Required components:



TRIDONIC

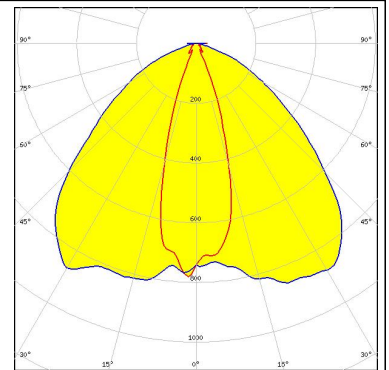
LED RLE G1 49x245mm 4000lm xxx EXC OTD
FWHM 23.0 + 104.0°
Efficiency 94 %
Peak intensity 1.300 cd/lm
Required components:



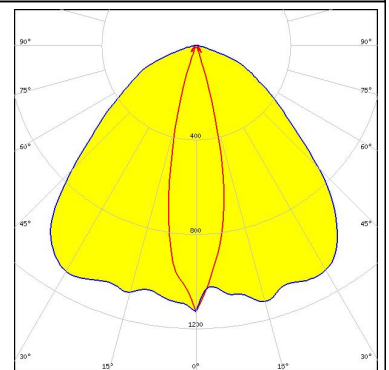
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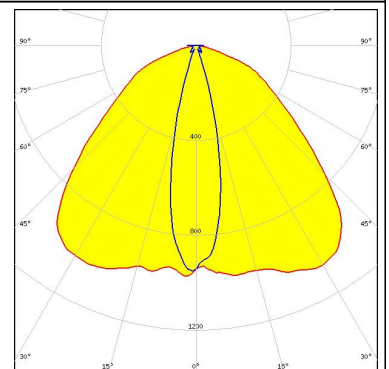
LED XHP35 HD
FWHM 102.0 + 35.0°
Efficiency 91 %
Peak intensity 0.910 cd/lm
Required components:



LED XHP35 HI
FWHM 101.0 + 27.0°
Efficiency 94 %
Peak intensity 1.200 cd/lm
Required components:



LED XP-G3
FWHM 103.0 + 29.0°
Efficiency 94 %
Peak intensity 1.100 cd/lm
Required components:

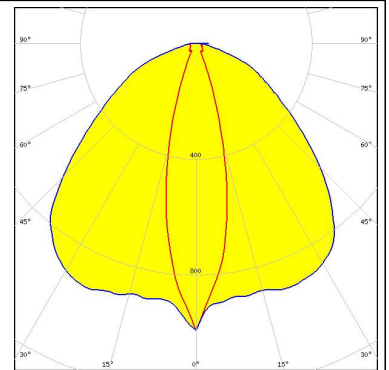


LED XQ-E HI
FWHM 96.0 + 14.0°
Efficiency %
Peak intensity cd/lm
Required components:

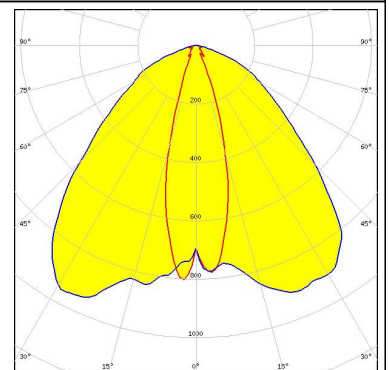
PHOTOMETRIC DATA (SIMULATED):



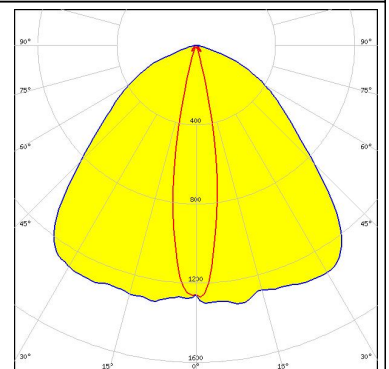
LED XT-E HE
 FWHM 100.0 + 24.0°
 Efficiency 94 %
 Peak intensity cd/lm
 Required components:



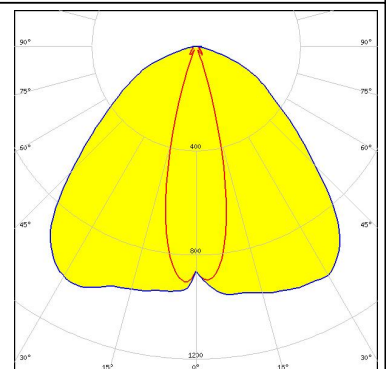
LED Duris S8
 FWHM 95.0 + 25.0°
 Efficiency 93 %
 Peak intensity 0.950 cd/lm
 Required components:



LED OSCONIQ P 3737 (2W version)
 FWHM 99.0 + 19.0°
 Efficiency 94 %
 Peak intensity 1.300 cd/lm
 Required components:



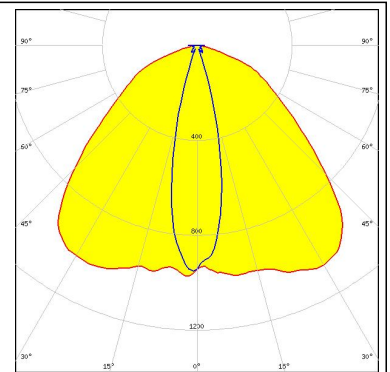
LED OSCONIQ P 3737 (3W version)
 FWHM 100.0 + 30.0°
 Efficiency 94 %
 Peak intensity 1.030 cd/lm
 Required components:



PHOTOMETRIC DATA (SIMULATED):

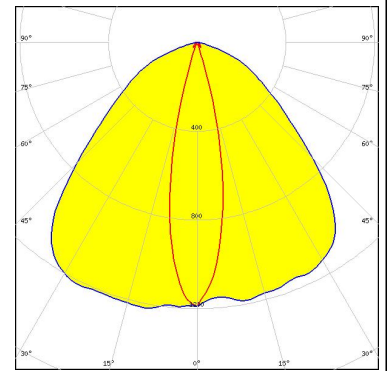
PHILIPS

LED Fortimo FastFlex LED board 2x8 DAX G4
FWHM 103.0 + 29.0°
Efficiency 94 %
Peak intensity 1.100 cd/lm
Required components:



SEOUL SEMICONDUCTOR

LED Z5M1/Z5M2
FWHM 22.0 + 97.0°
Efficiency 94 %
Peak intensity 1.200 cd/lm
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:

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