

FLORENCE-Z90

~90° wide beam. Ideal for retail and industrial lighting. Can be used for general office lighting with shade.

SPECIFICATION:

Dimensions	61.0 x 286.0
Height	8.5 mm
Fastening	screw
ROHS compliant	yes ⓘ

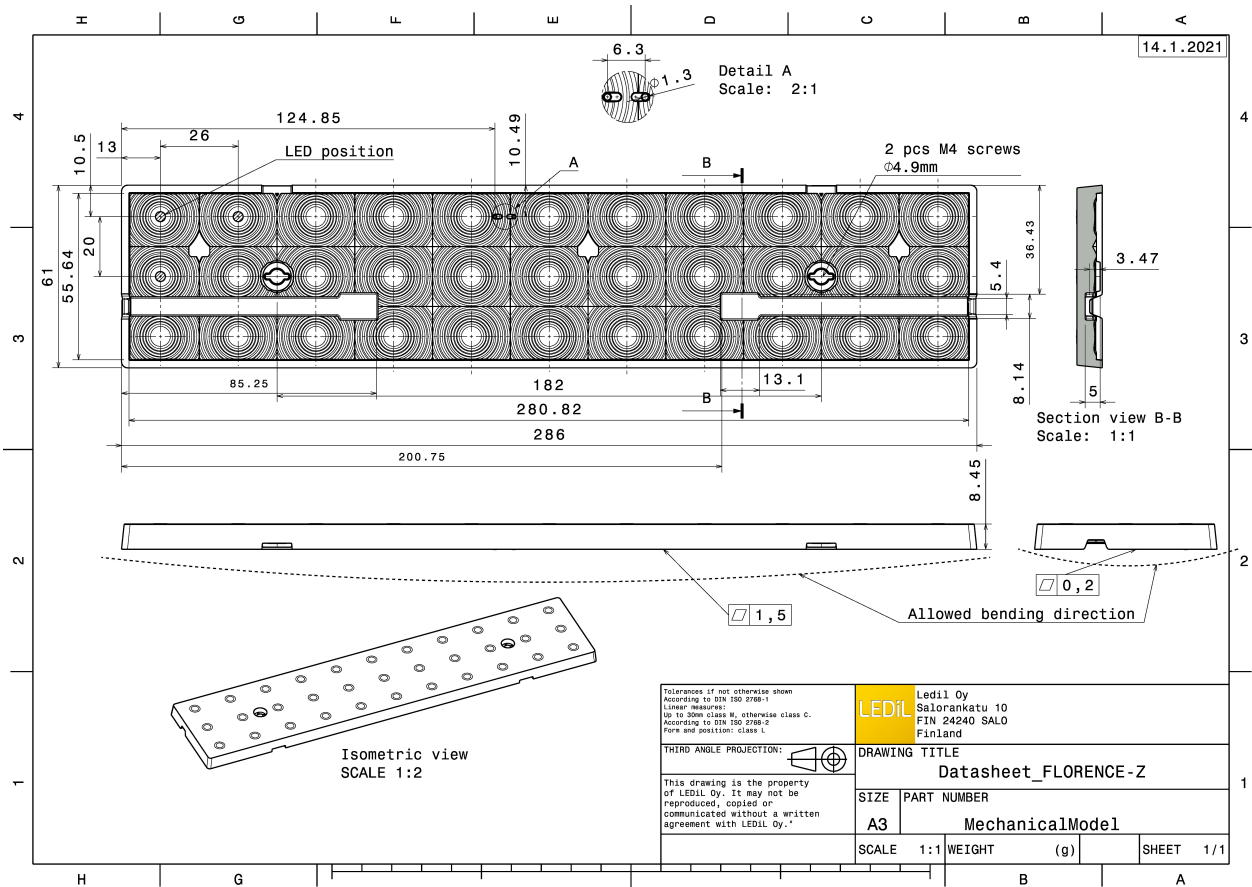
MATERIALS:

Component	Type	Material	Colour	Finish	Length (mm)
FLORENCE-Z90	Linear lens	PMMA	clear		



ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
F13853_FLORENCE-Z90	72	18	6	7.7
» Box size: 398 x 298 x 140 mm				

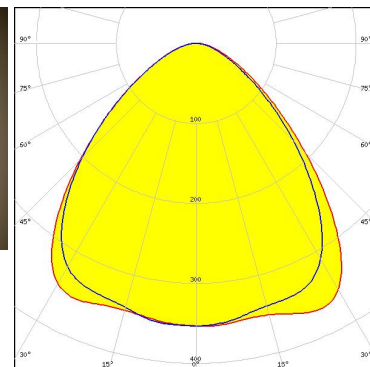
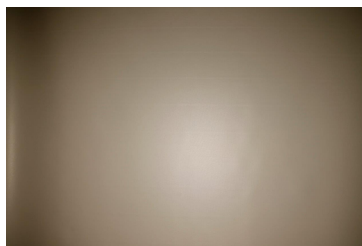


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):



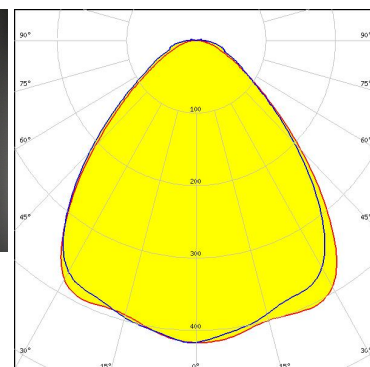
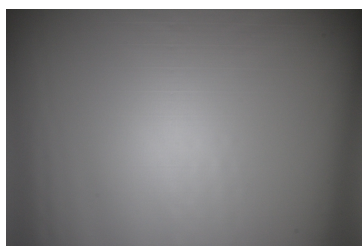
LED XH-B/G
 FWHM / FWTM 95.0° / 140.0°
 Efficiency 82 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



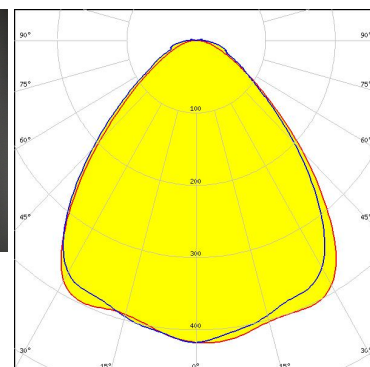
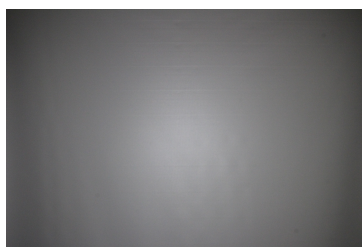
LED LED-Modul 280 x 55 mm 1B
 FWHM / FWTM 90.0° / 134.0 + 144.0°
 Efficiency 92 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED LED-Modul 280 x 55 mm 1F
 FWHM / FWTM 90.0° / 133.0 + 144.0°
 Efficiency 92 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

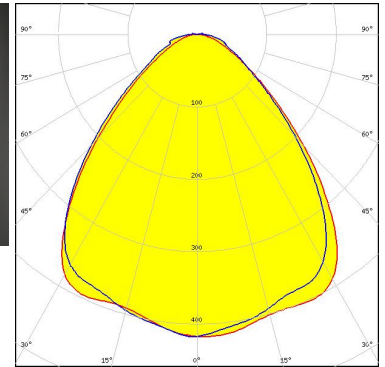
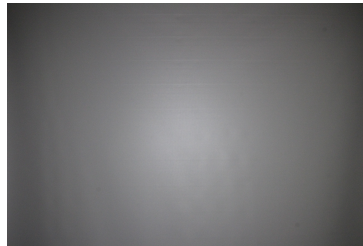


Light distribution files

OPTICAL RESULTS (MEASURED):

FRANK

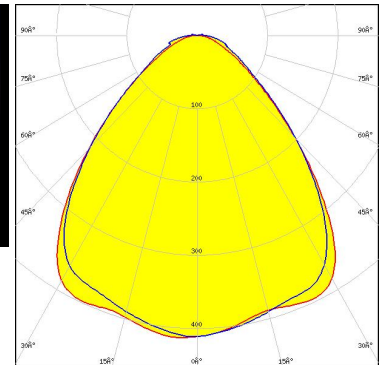
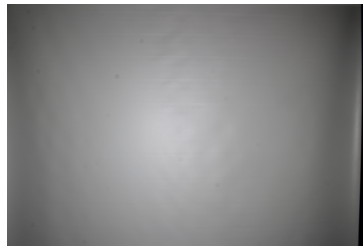
LED LED-Modul 280 x 55 mm 2F
 FWHM / FWTM 90.0° / 133.0 + 144.0°
 Efficiency 92 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

inventronics

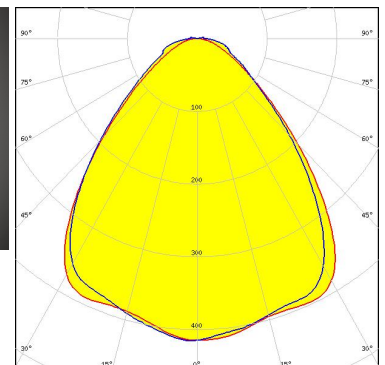
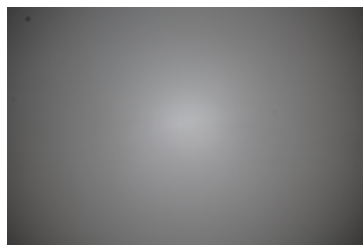
LED PL-BAR-G3 1100 280x55
 FWHM / FWTM 90.0° / 140.0°
 Efficiency 92 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

LUMILEDS

LED LUXEON 3030 2D (Square LES)
 FWHM / FWTM 88.0 + 87.0° / 133.0 + 153.0°
 Efficiency 91 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

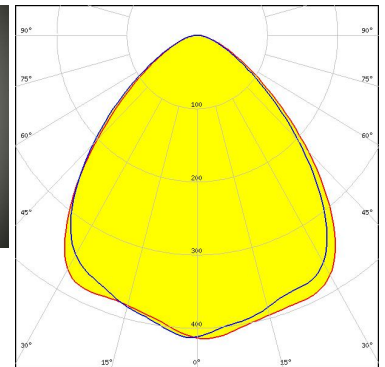
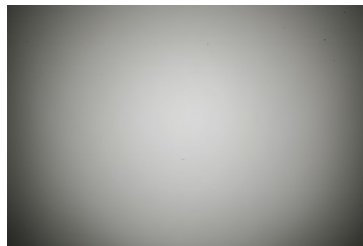


Light distribution files

OPTICAL RESULTS (MEASURED):



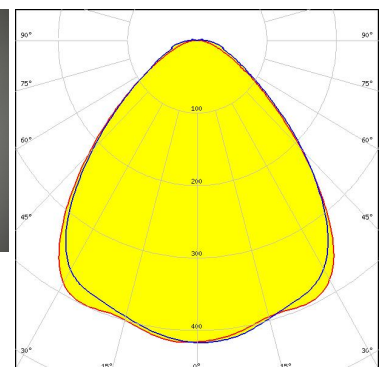
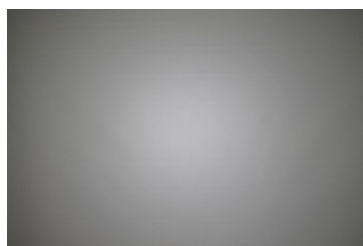
LED LUXEON 3535 2D
 FWHM / FWTM 92.0° / 135.0°
 Efficiency 87 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



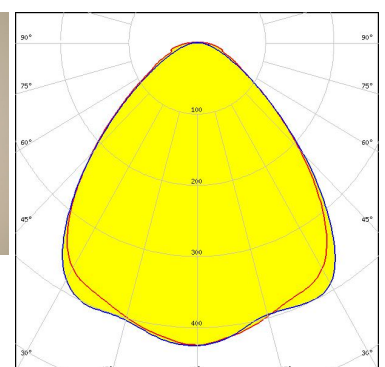
LED LUXEON 3535L HE
 FWHM / FWTM 92.0° / 139.0°
 Efficiency 93 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED LUXEON XR-3535L (L202 - xxxx033C30001)
 FWHM / FWTM 91.0° / 134.0°
 Efficiency 93 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

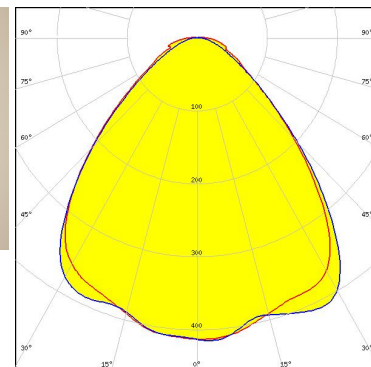
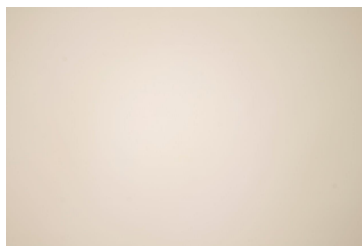


Light distribution files

OPTICAL RESULTS (MEASURED):



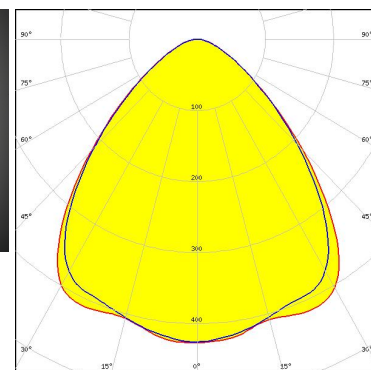
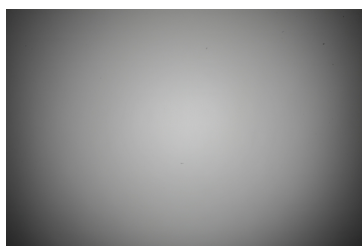
LED MP-2016
 FWHM / FWTM 90.0° / 140.0°
 Efficiency 91 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



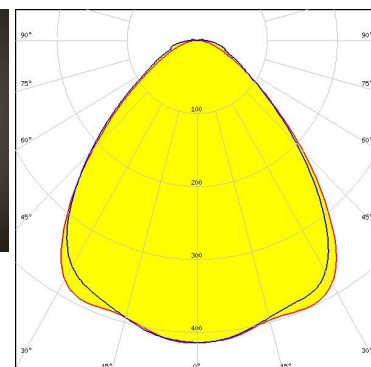
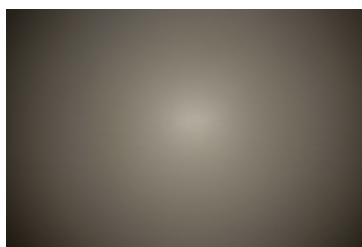
LED NF2x757D
 FWHM / FWTM 92.0° / 134.0°
 Efficiency 90 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED NFSW757H
 FWHM / FWTM 91.0 + 90.0° / 134.0 + 145.0°
 Efficiency 92 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

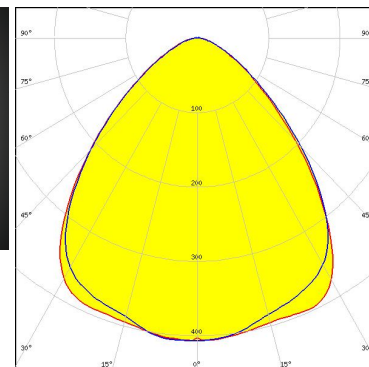
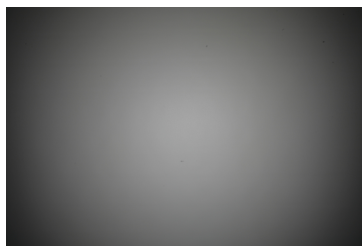


Light distribution files

OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

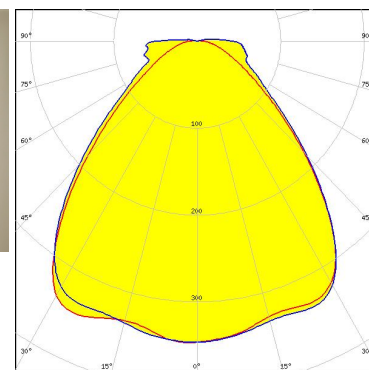
LED Duris E5
FWHM / FWTM 92.0° / 135.0°
Efficiency 88 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

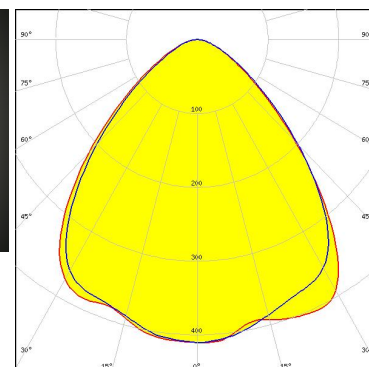
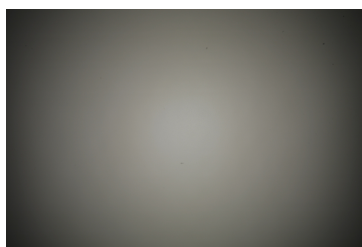
LED Duris S2
FWHM / FWTM 95.0° / 165.0°
Efficiency 90 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED DURIS S5 (Single chip)
FWHM / FWTM 91.0° / 133.0°
Efficiency 88 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

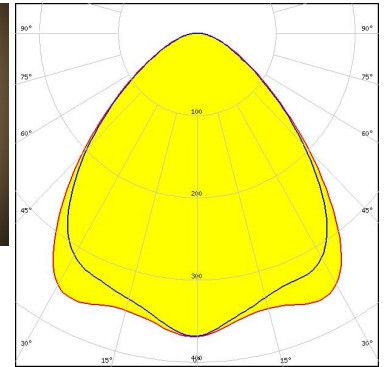
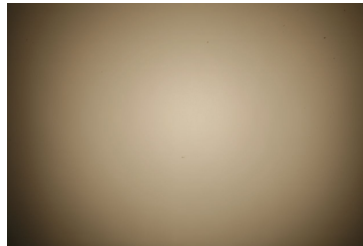


Light distribution files

OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

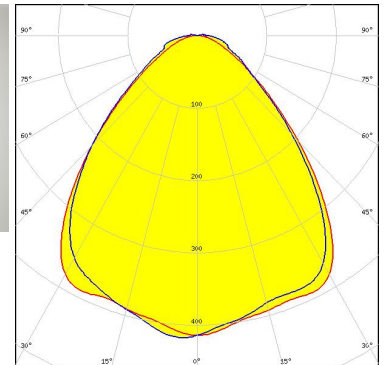
LED OSCONIQ P 2226
FWHM / FWTM 94.0° / 140.0°
Efficiency 83 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

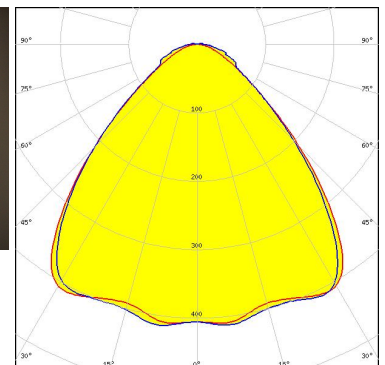
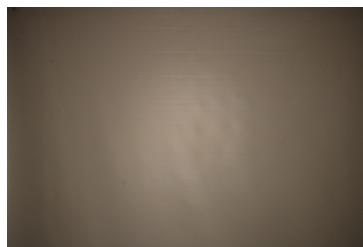
LED OSLON Square CSSRM2/CSSRM3
FWHM / FWTM 91.0° / 145.0°
Efficiency 93 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

PHILIPS

LED Fortimo LED Line VO 1ft MF 3R HV5
FWHM / FWTM 90.0° / 130.0 + 146.0°
Efficiency 94 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

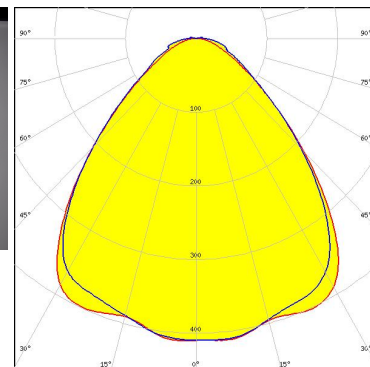


Light distribution files

OPTICAL RESULTS (MEASURED):

PHILIPS

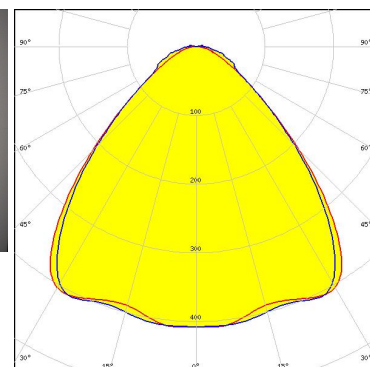
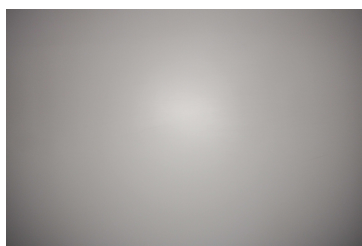
LED Fortimo LED Line 1ft 650lm 3R HV4 & LV4
 FWHM / FWTM 90.0° / 142.0°
 Efficiency 93 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

PHILIPS

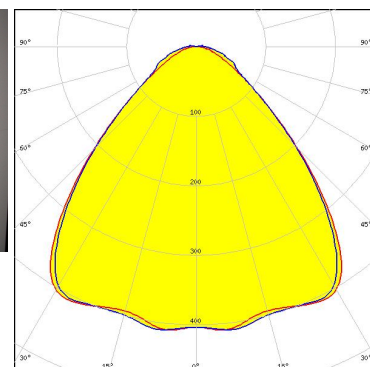
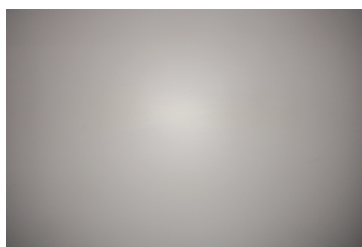
LED Fortimo LED Line 1ft HF 3R HV5
 FWHM / FWTM 90.0° / 139.0°
 Efficiency 94 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

PHILIPS

LED Fortimo LED Line 1ft LF 3R HV5 & LV5
 FWHM / FWTM 90.0° / 140.0°
 Efficiency 94 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

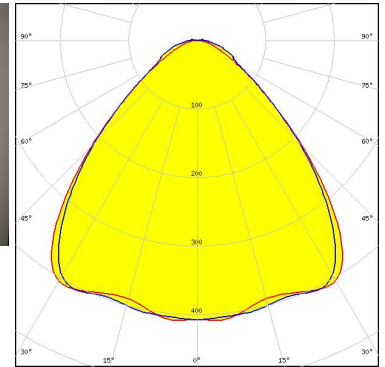


Light distribution files

OPTICAL RESULTS (MEASURED):

PHILIPS

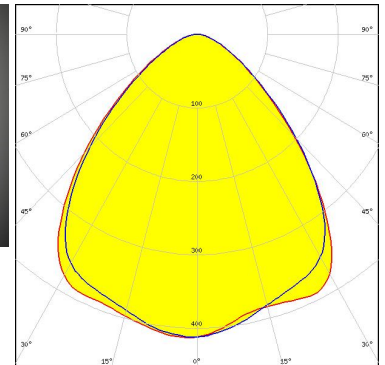
LED	Fortimo LED Line 1ft MF 3R HV5 & LV5
FWHM / FWTM	91.0° / 138.0°
Efficiency	94 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

SAMSUNG

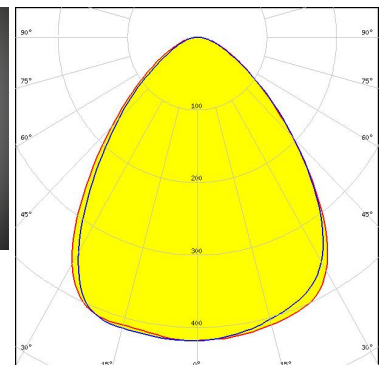
LED	LM231 A/B
FWHM / FWTM	91.0° / 134.0°
Efficiency	88 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

SAMSUNG

LED	LM561B
FWHM / FWTM	86.0° / 133.0°
Efficiency	85 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

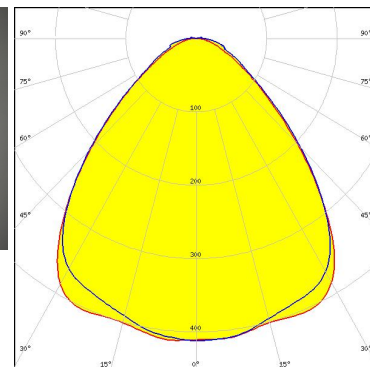
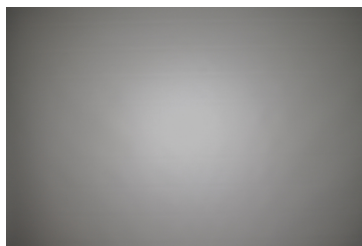


Light distribution files

OPTICAL RESULTS (MEASURED):

SAMSUNG

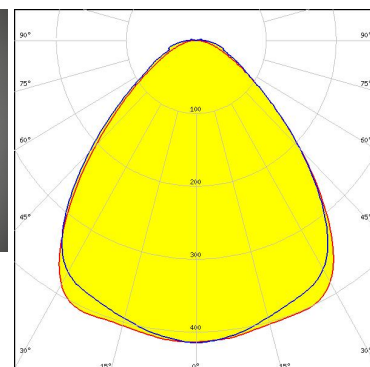
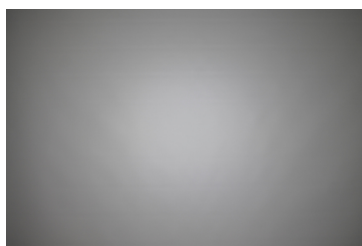
LED LM561B Plus
 FWHM / FWTM 92.0° / 141.0°
 Efficiency 93 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

SAMSUNG

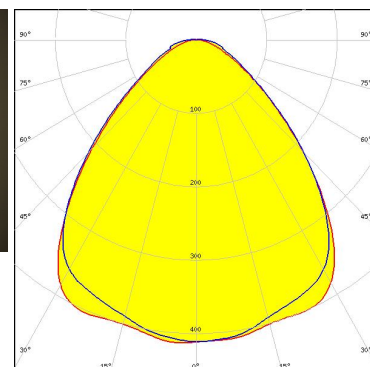
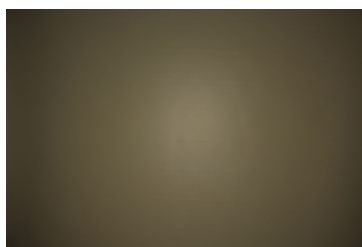
LED LM561C
 FWHM / FWTM 92.0° / 140.0°
 Efficiency 93 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

SAMSUNG

LED LT-R286A
 FWHM / FWTM 93.0° / 140.0°
 Efficiency 93 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

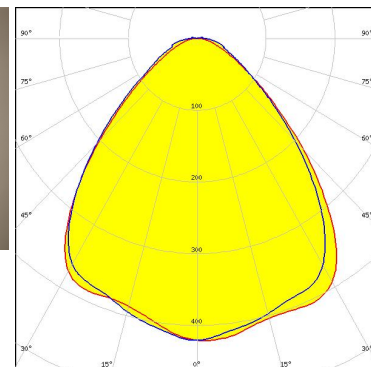


Light distribution files

OPTICAL RESULTS (MEASURED):



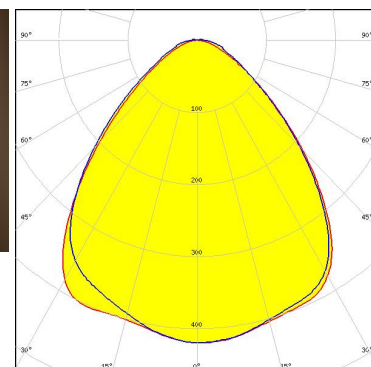
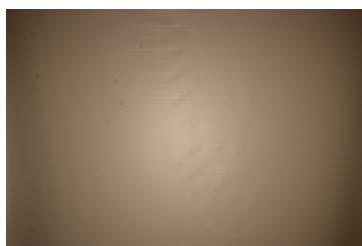
LED SEOUL 3030
FWHM / FWTM 91.0° / 138.0°
Efficiency 91 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



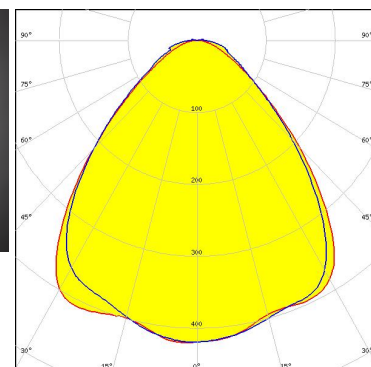
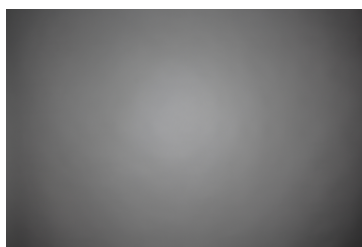
LED SEOUL 5630C
FWHM / FWTM 90.0° / 136.0°
Efficiency 91 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED SEOUL DC 3030
FWHM / FWTM 90.0° / 140.0°
Efficiency 93 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

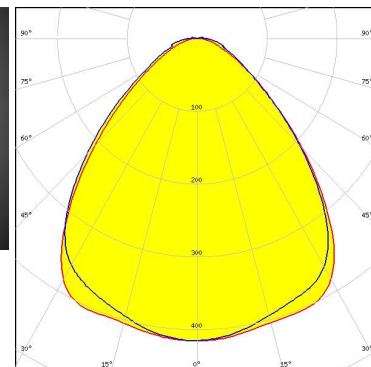
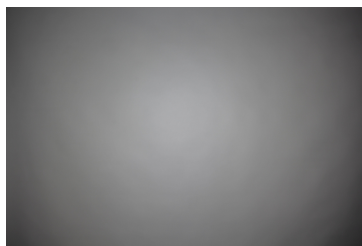


Light distribution files

OPTICAL RESULTS (MEASURED):

TRIDONIC

LED LLE G2 55x280mm 2000lm
 FWHM / FWTM 91.0° / 135.0°
 Efficiency 93 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

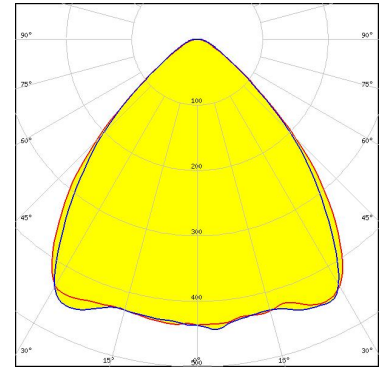


Light distribution files

OPTICAL RESULTS (SIMULATED):



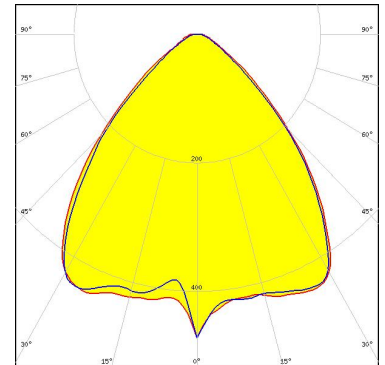
LED J Series 5050 6V P Class
 FWHM / FWTM 88.0° / 120.0°
 Efficiency 91 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



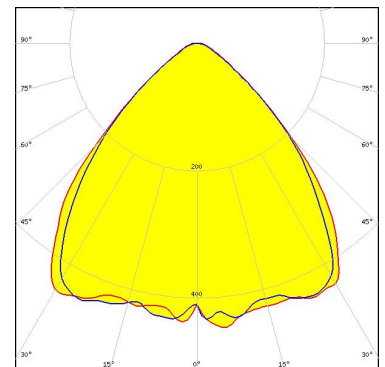
LED J Series 5050C 6V E Class
 FWHM / FWTM 87.0° / 122.0°
 Efficiency 91 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED LUXEON 5050 Round LES
 FWHM / FWTM 90.0° / 120.0°
 Efficiency 91 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

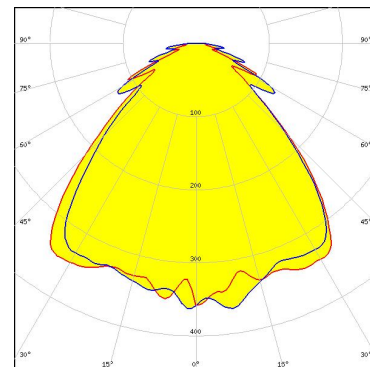


Light distribution files

OPTICAL RESULTS (SIMULATED):



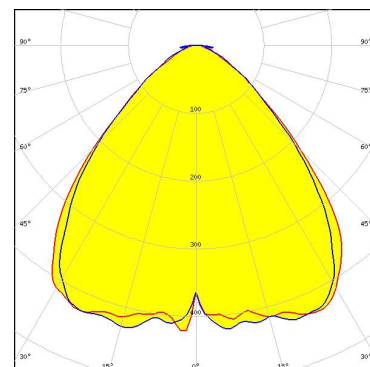
LED NF2x757G
 FWHM / FWTM 90.0° / 146.0°
 Efficiency 80 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



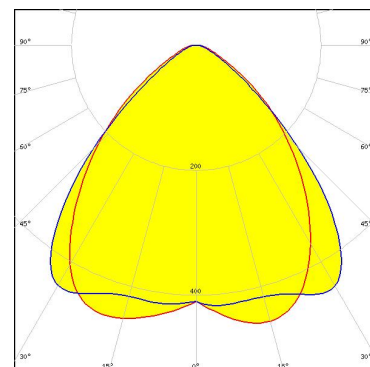
LED NFMW48xA
 FWHM / FWTM 89.0° / 130.0°
 Efficiency 92 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED NFSx757G
 FWHM / FWTM 86.0 + 90.0° / 128.0 + 122.0°
 Efficiency 92 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 2
 Light colour/type White
 Required components:

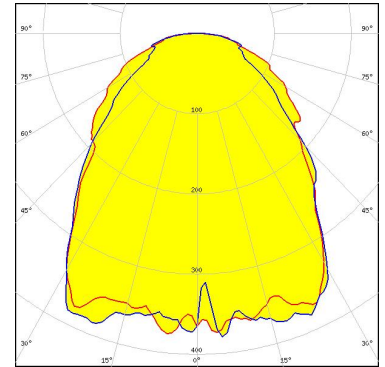


Light distribution files

OPTICAL RESULTS (SIMULATED):



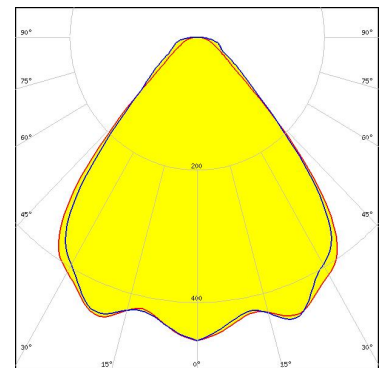
LED NVSxE21A
 FWHM / FWTM 90.0° / 163.0°
 Efficiency 94 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



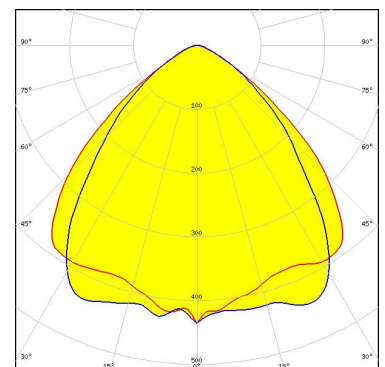
LED Duris E 2835
 FWHM / FWTM 85.0° / 122.0°
 Efficiency 87 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED Duris E 2835
 FWHM / FWTM 86.0 + 87.0° / 120.0 + 126.0°
 Efficiency 92 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 2
 Light colour/type White
 Required components:

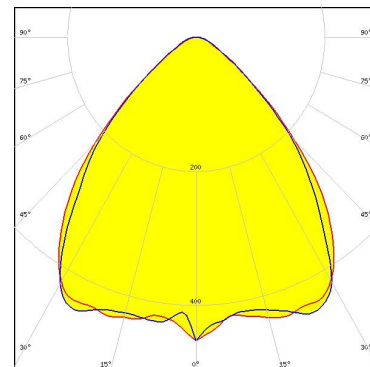


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

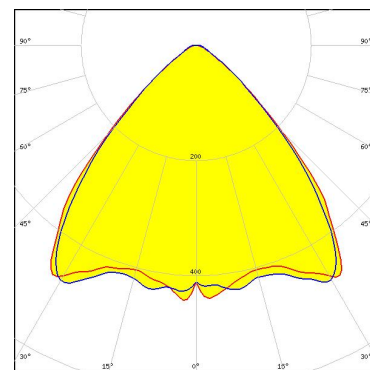
LED Duris S8
FWHM / FWTM 89.0° / 121.0°
Efficiency 91 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

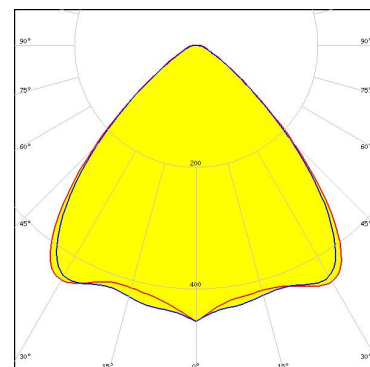
LED OSCONIQ C 2424 Gen1
FWHM / FWTM 88.0° / 114.0°
Efficiency 92 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

SAMSUNG

LED LM28xB Series
FWHM / FWTM 90.0° / 120.0°
Efficiency 93 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

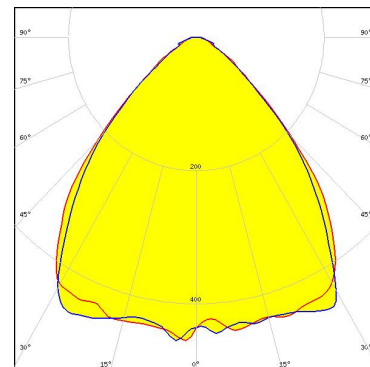


Light distribution files

OPTICAL RESULTS (SIMULATED):

SAMSUNG

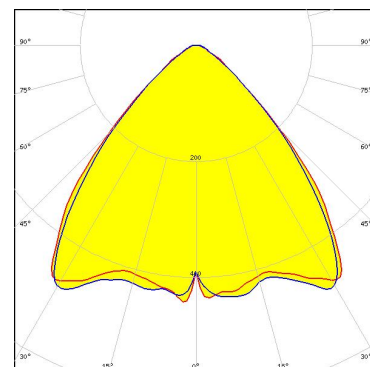
LED LM301B
 FWHM / FWTM 88.0° / 122.0°
 Efficiency 91 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 2
 Light colour/type White
 Required components:



Light distribution files

SAMSUNG

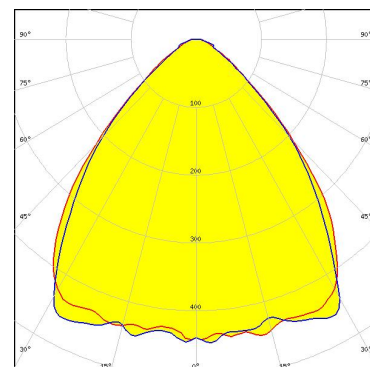
LED LM301B
 FWHM / FWTM 88.0° / 119.0°
 Efficiency 92 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

SAMSUNG

LED LM302Z plus
 FWHM / FWTM 87.0° / 122.0°
 Efficiency 91 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 2
 Light colour/type White
 Required components:

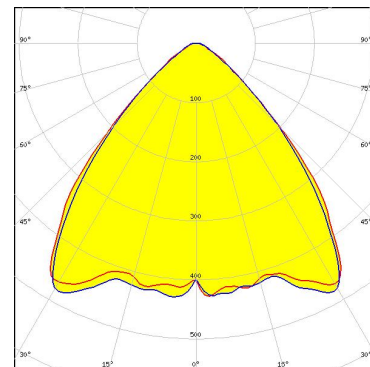


Light distribution files

OPTICAL RESULTS (SIMULATED):

SAMSUNG

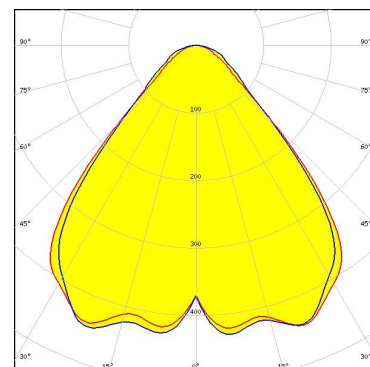
LED LM302Z plus
 FWHM / FWTM 87.0° / 118.0°
 Efficiency 92 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



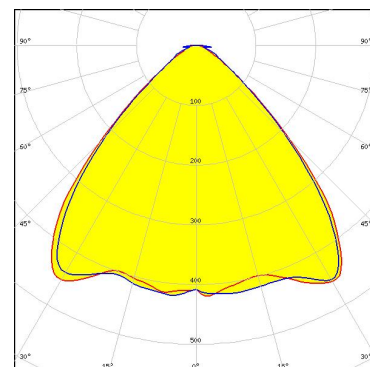
LED SEOUL 5630D
 FWHM / FWTM 83.0° / 127.0°
 Efficiency 84 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED SEOUL DC 3030C
 FWHM / FWTM 89.0° / 120.0°
 Efficiency 94 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

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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