

LINNEA-90

~90° + 90° wide beam optimized for 1.0 mm metal sheet or profile. Variant made from PC.

SPECIFICATION:

Dimensions	285.0 x 40.0
Height	9.5 mm
Fastening	clips
ROHS compliant	yes ⓘ

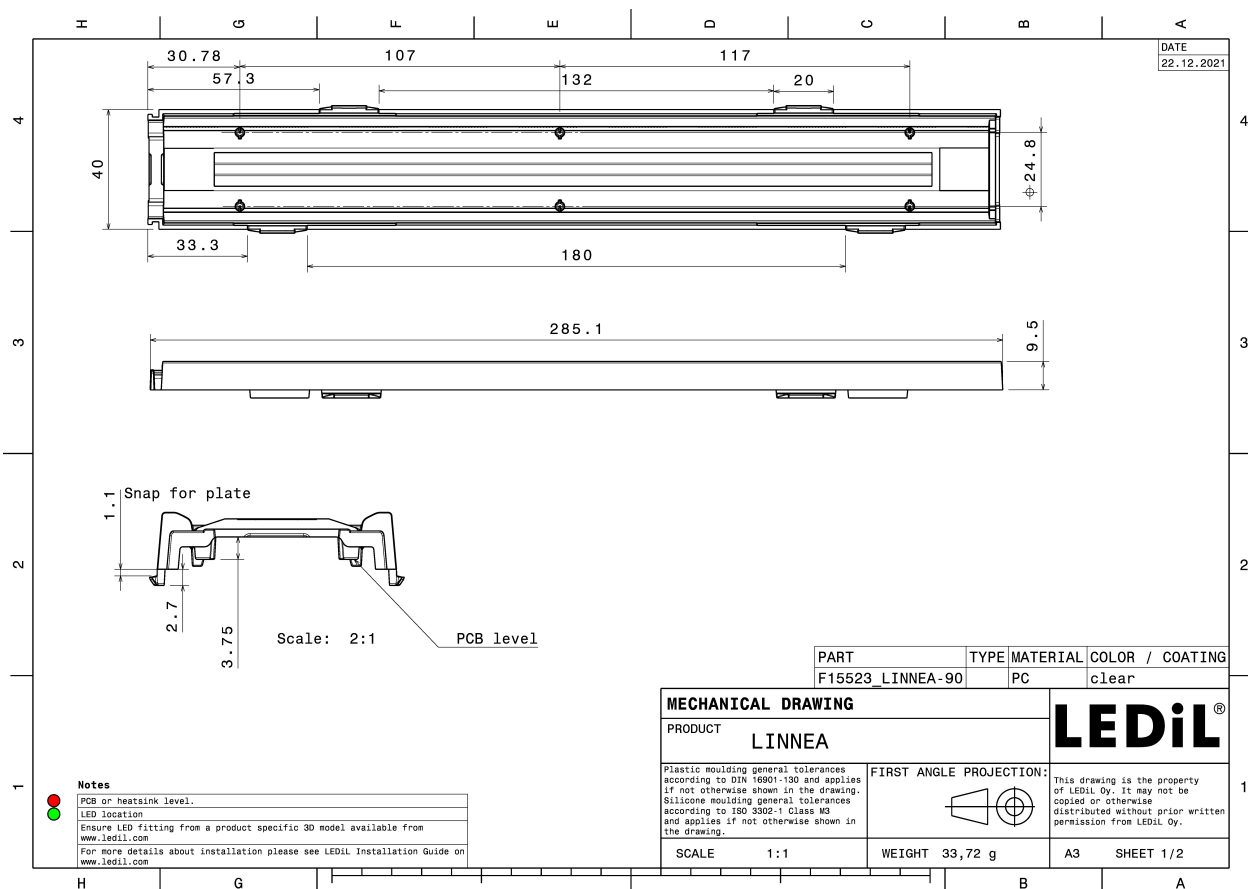


MATERIALS:

Component	Type	Material	Colour	Finish	Length
LINNEA-90	Linear lens	PC	clear		285.0

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
F15523_LINNEA-90 » Box size: 398 x 298 x 265 mm	162	36	9	7.3

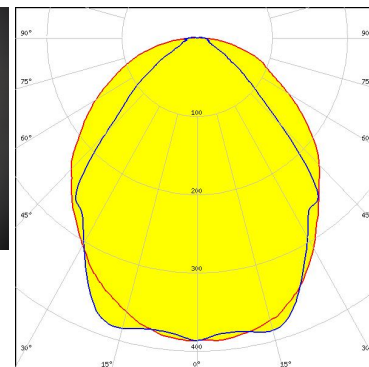
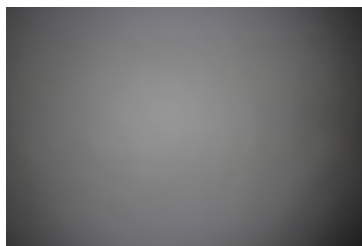


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):



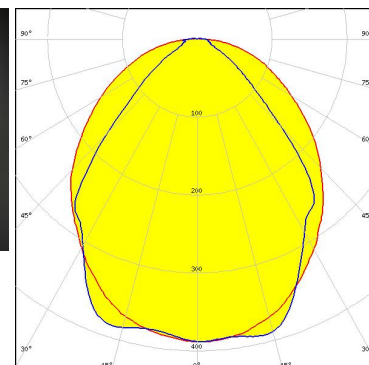
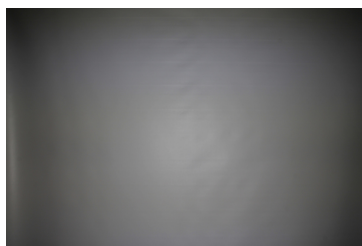
LED CALOSNU405-M7W1
FWHM / FWTM 104.0 + 87.0° / 164.0 + 124.0°
Efficiency 82 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



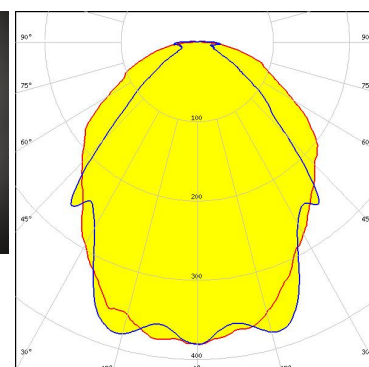
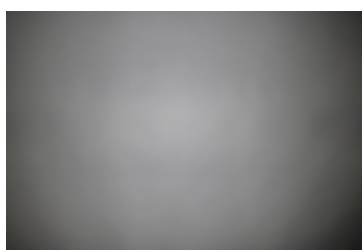
LED CALOSNU410-M7W1
FWHM / FWTM 104.0 + 86.0° / 164.0 + 124.0°
Efficiency 83 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED XP-E
FWHM / FWTM 104.0 + 88.0° / 164.0 + 126.0°
Efficiency 81 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

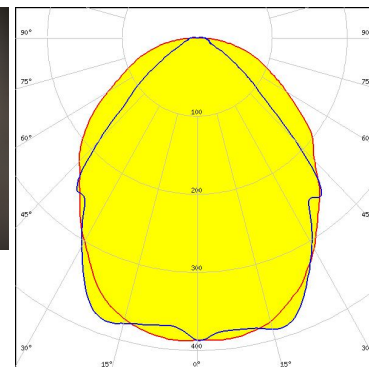
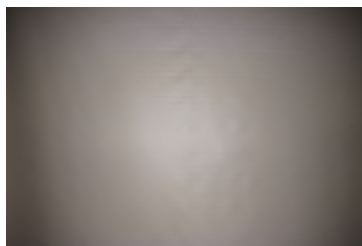


Light distribution files

OPTICAL RESULTS (MEASURED):

Helvar

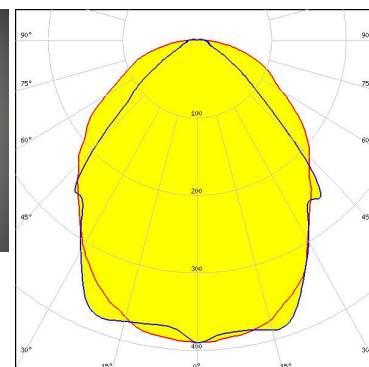
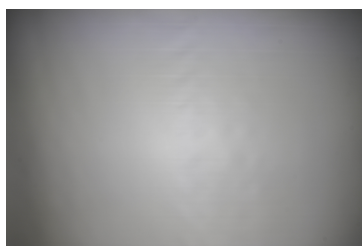
LED L-iC-282-827-865-011A
 FWHM / FWTM 102.0 + 89.0° / 164.0 + 124.0°
 Efficiency 82 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

Helvar

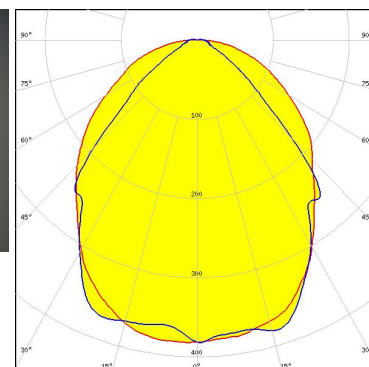
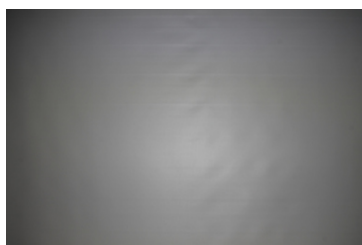
LED LP-282-840-009A 60/300
 FWHM / FWTM 100.0 + 89.0° / 163.0 + 125.0°
 Efficiency 82 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

Helvar

LED LS-282-840-011A
 FWHM / FWTM 102.0 + 90.0° / 164.0 + 125.0°
 Efficiency 81 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

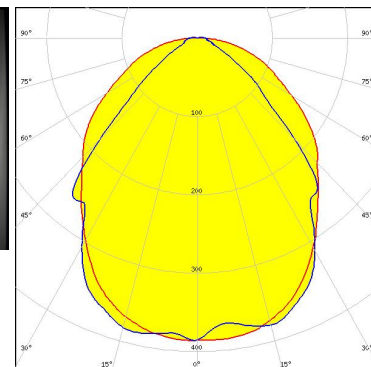
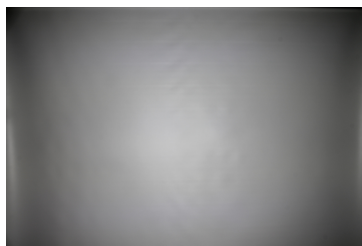


Light distribution files

OPTICAL RESULTS (MEASURED):

Helvar

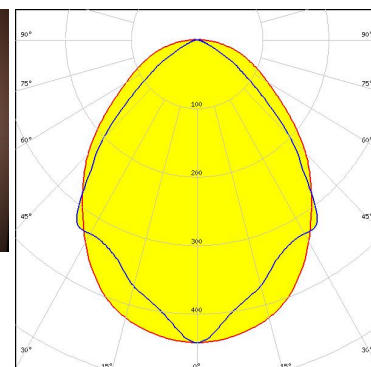
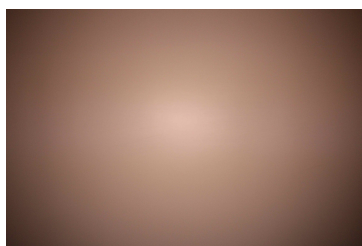
LED LX-282-840-023A
FWHM / FWTM 102.0 + 89.0° / 164.0 + 125.0°
Efficiency 82 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

LUMITRONIX[®] High-Performance LED-Technologies & Solutions

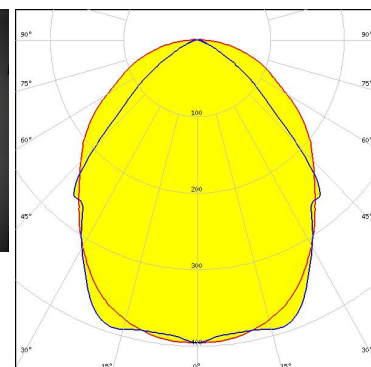
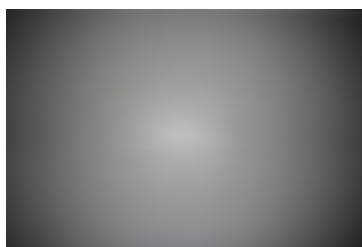
LED LinearZ 280-112 Circadian TW
FWHM / FWTM 93.0 + 87.0° / 159.0 + 122.0°
Efficiency 84 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type Tunable White
Required components:



Light distribution files

LUMITRONIX[®] High-Performance LED-Technologies & Solutions

LED LinearZ 280-26
FWHM / FWTM 101.0 + 89.0° / 164.0 + 124.0°
Efficiency 83 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

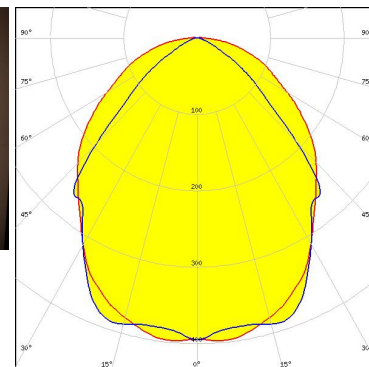
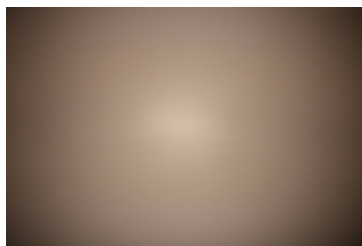


Light distribution files

OPTICAL RESULTS (MEASURED):



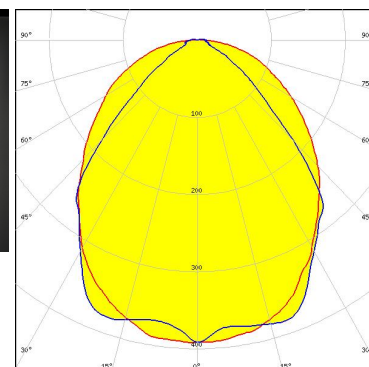
LED LinearZ 280-40 TW
FWHM / FWTM 101.0 + 89.0° / 163.0 + 123.0°
Efficiency 83 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type Tunable White
Required components:



Light distribution files



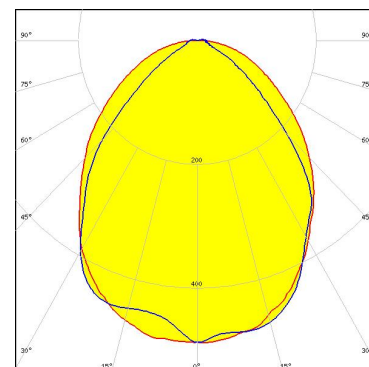
LED LinLED 280x24mm 1100lm 830 2C 30V LINNEA-GC G1
FWHM / FWTM 88.0 + 100.0° / 125.0 + 164.0°
Efficiency 83 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



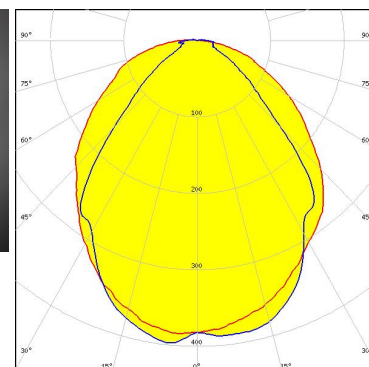
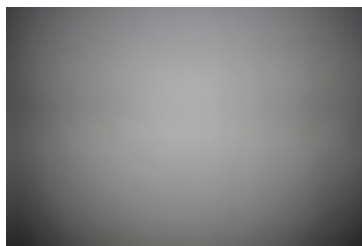
LED NF2x757D
FWHM / FWTM 86.0 + 99.0° / 125.0 + 159.0°
Efficiency 0 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



OPTICAL RESULTS (MEASURED):



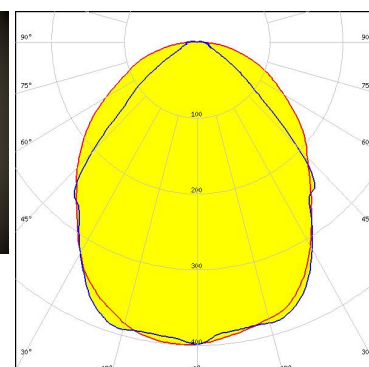
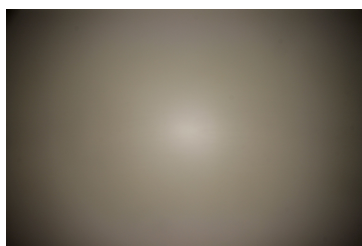
LED NF2x757G
FWHM / FWTM 105.0 + 85.0° / 165.0 + 125.0°
Efficiency 83 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



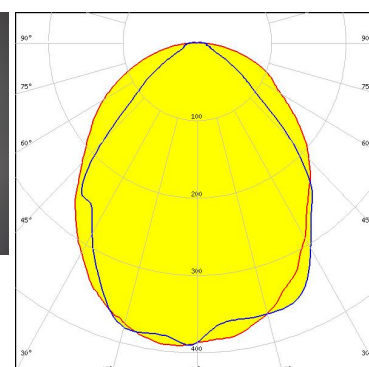
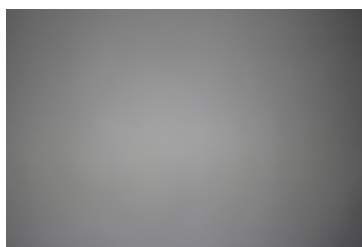
LED NFSW757H
FWHM / FWTM 100.0 + 90.0° / 163.0 + 125.0°
Efficiency 85 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED NFSx757G
FWHM / FWTM 98.0 + 88.0° / 162.0 + 125.0°
Efficiency 81 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

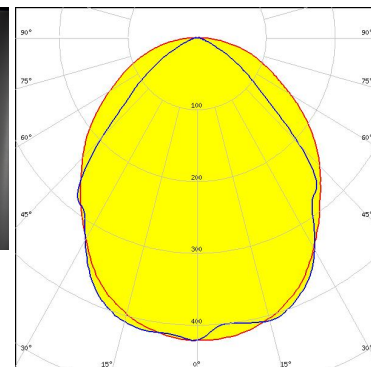
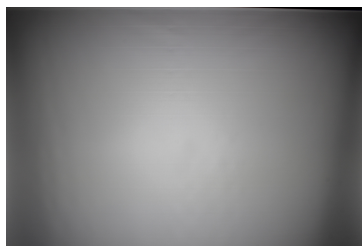


Light distribution files

OPTICAL RESULTS (MEASURED):

OSRAM

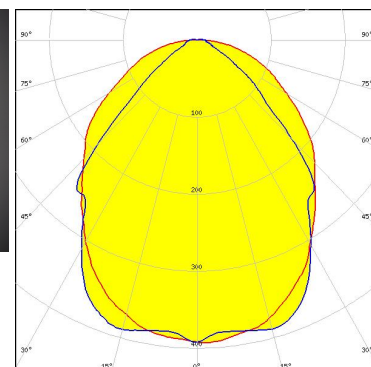
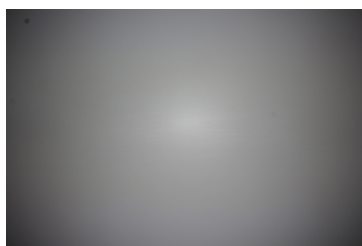
LED PL-LIN-IND-Z1 2800 560x24
FWHM / FWTM 101.0 + 89.0° / 163.0 + 125.0°
Efficiency 87 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM

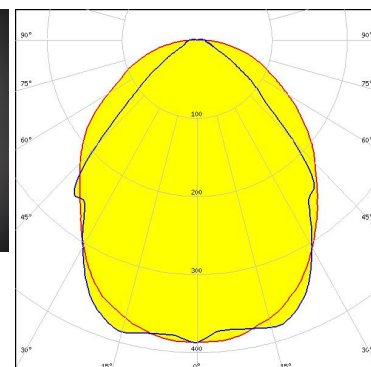
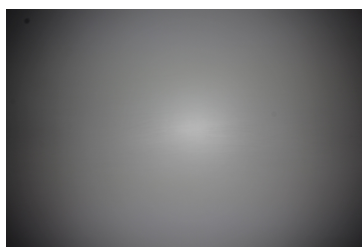
LED PL-LIN-Z5 1100 280x20
FWHM / FWTM 101.0 + 89.0° / 164.0 + 125.0°
Efficiency 82 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM

LED PL-LIN-Z5 2000 280x20
FWHM / FWTM 101.0 + 89.0° / 164.0 + 125.0°
Efficiency 82 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

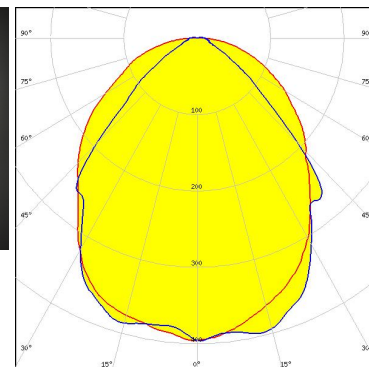
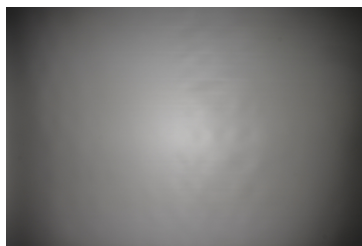


Light distribution files

OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

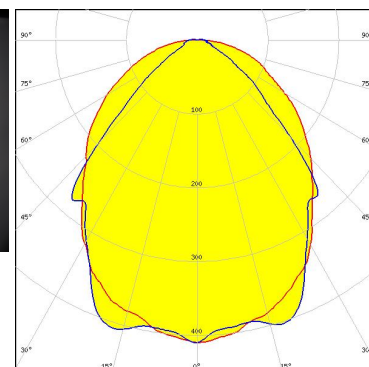
LED Duris S5 (2 chip)
FWHM / FWTM 99.0 + 89.0° / 163.0 + 125.0°
Efficiency 83 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

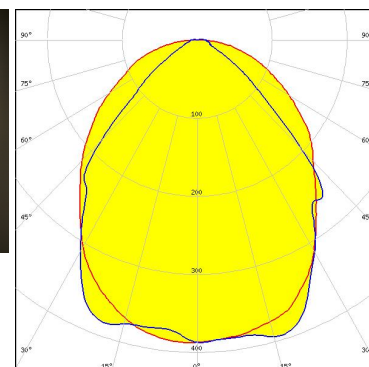
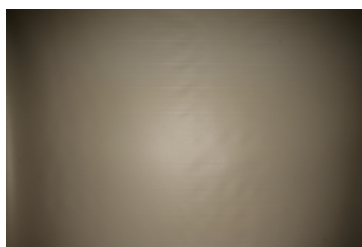
LED Duris S5 (Single chip)
FWHM / FWTM 98.0 + 89.0° / 163.0 + 125.0°
Efficiency 85 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

PHILIPS

LED Fortimo LED Strip 1ft 1100lm FC HV4 & LV4
FWHM / FWTM 100.0 + 89.0° / 163.0 + 124.0°
Efficiency 82 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

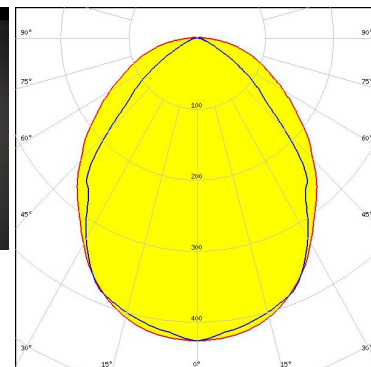


Light distribution files

OPTICAL RESULTS (MEASURED):

PHILIPS

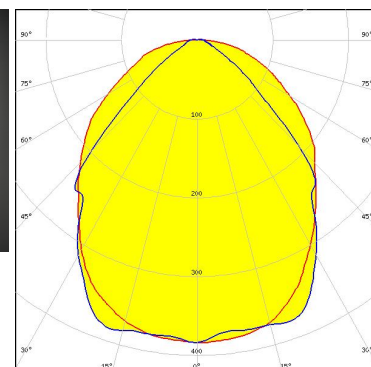
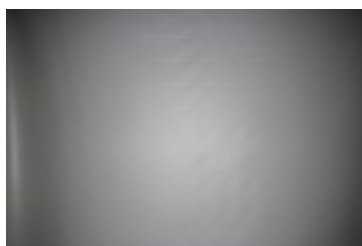
LED	Fortimo LED Strip 1ft 1100lm FC HV5 & LV5
FWHM / FWTM	99.0 + 85.0° / 163.0 + 123.0°
Efficiency	86 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

PHILIPS

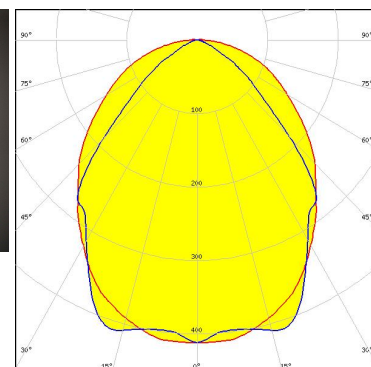
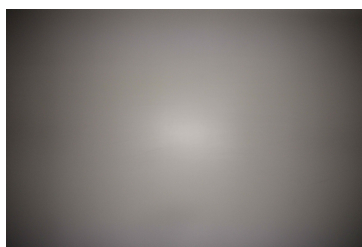
LED	Fortimo LED Strip 1ft 650lm FC HV4 & LV4
FWHM / FWTM	102.0 + 90.0° / 164.0 + 124.0°
Efficiency	82 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

PHILIPS

LED	Fortimo LED Strip 1ft 650lm FC HV5 & LV5
FWHM / FWTM	101.0 + 87.0° / 163.0 + 123.0°
Efficiency	86 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

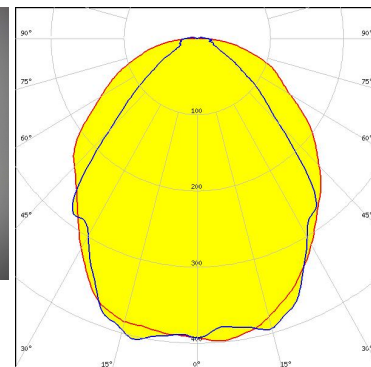
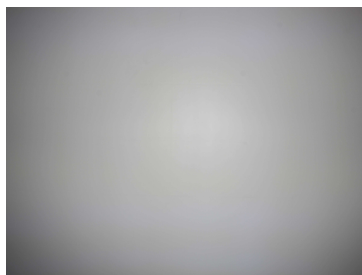


Light distribution files

OPTICAL RESULTS (MEASURED):

SAMSUNG

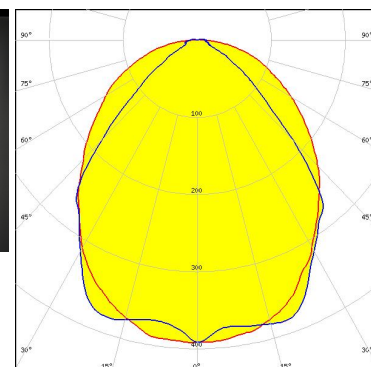
LED LM28xB Series
FWHM / FWTM 105.0 + 86.0° / 165.0 + 124.0°
Efficiency 84 %
Peak intensity 0.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

SAMSUNG

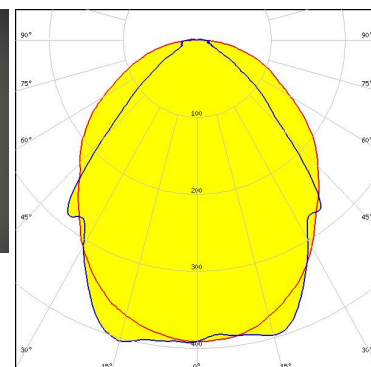
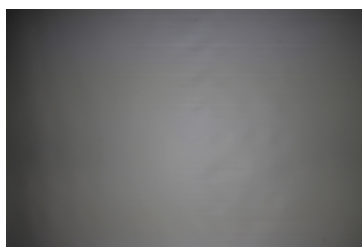
LED LM561B Plus
FWHM / FWTM 88.0 + 100.0° / 125.0 + 164.0°
Efficiency 83 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

SAMSUNG

LED LT-H282C
FWHM / FWTM 103.0 + 87.0° / 164.0 + 125.0°
Efficiency 84 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

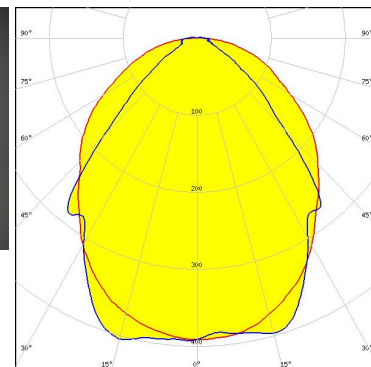
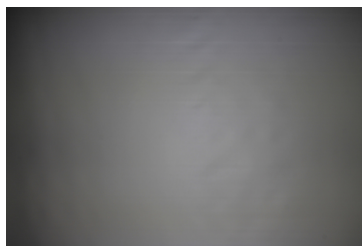


Light distribution files

OPTICAL RESULTS (MEASURED):

SAMSUNG

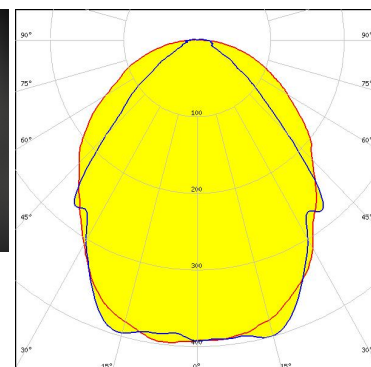
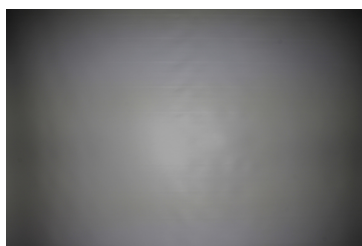
LED LT-H562C
 FWHM / FWTM 103.0 + 87.0° / 164.0 + 125.0°
 Efficiency 84 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

SAMSUNG

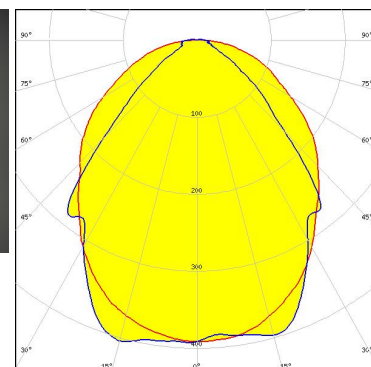
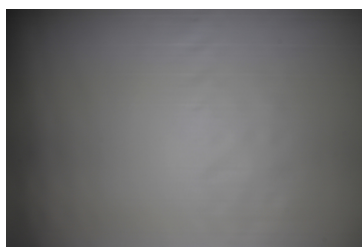
LED LT-Q282B
 FWHM / FWTM 101.0 + 87.0° / 164.0 + 125.0°
 Efficiency 84 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

SAMSUNG

LED LT-S282H
 FWHM / FWTM 104.0 + 86.0° / 165.0 + 125.0°
 Efficiency 85 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

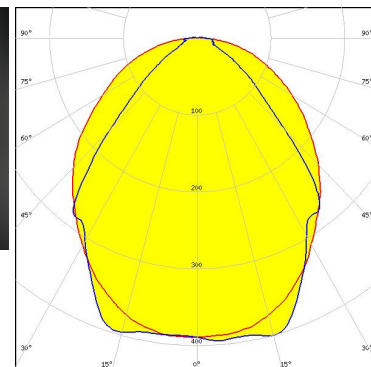
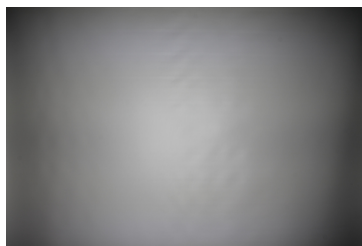


Light distribution files

OPTICAL RESULTS (MEASURED):

SAMSUNG

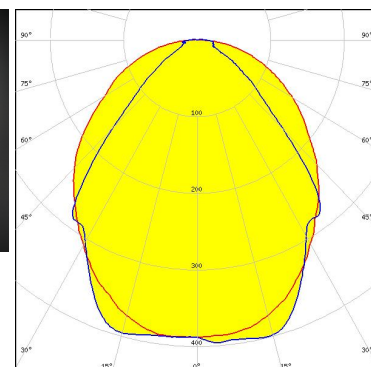
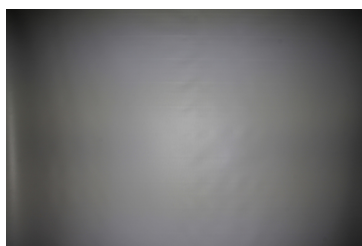
LED LT-S562H
FWHM / FWTM 104.0 + 86.0° / 165.0 + 125.0°
Efficiency 85 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

SAMSUNG

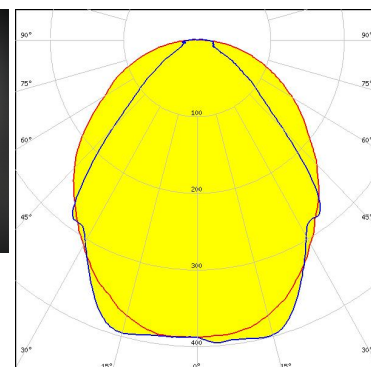
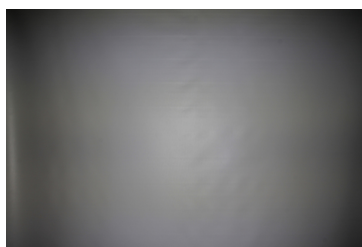
LED LT-V282E
FWHM / FWTM 103.0 + 86.0° / 164.0 + 125.0°
Efficiency 85 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

SAMSUNG

LED LT-V562E
FWHM / FWTM 103.0 + 86.0° / 164.0 + 125.0°
Efficiency 85 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

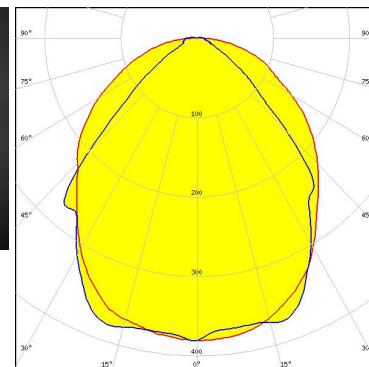
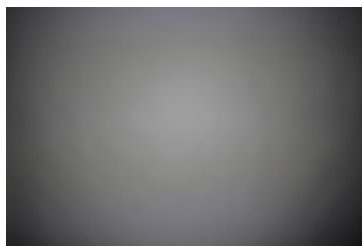


Light distribution files

OPTICAL RESULTS (MEASURED):



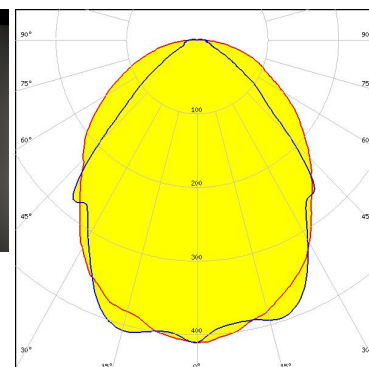
LED SEOUL 5630D
 FWHM / FWTM 93.0° / 141.0°
 Efficiency 82 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



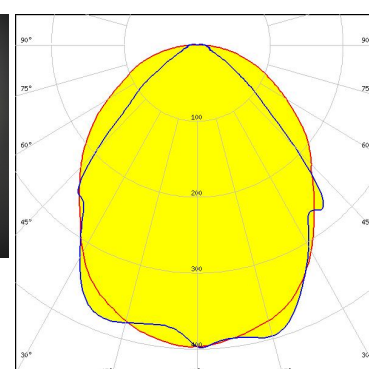
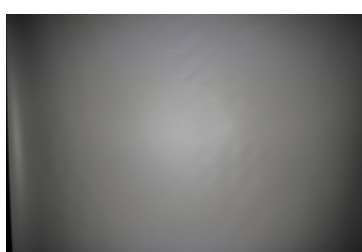
LED SEOUL DC 3030
 FWHM / FWTM 99.0 + 88.0° / 163.0 + 125.0°
 Efficiency 85 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

TRIDONIC

LED LLE G4 24x280mm 1250lm
 FWHM / FWTM 100.0 + 89.0° / 163.0 + 125.0°
 Efficiency 83 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

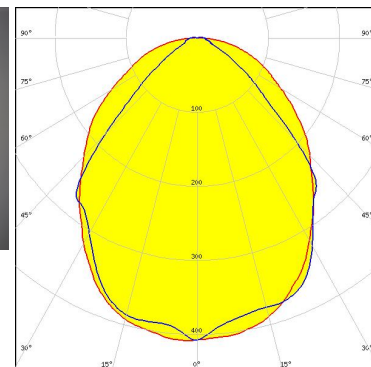
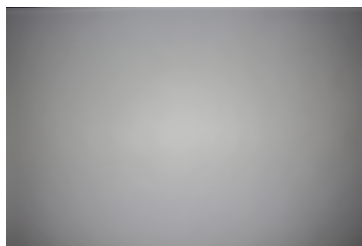


Light distribution files

OPTICAL RESULTS (MEASURED):

TRIDONIC

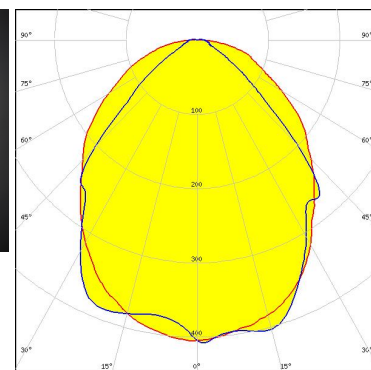
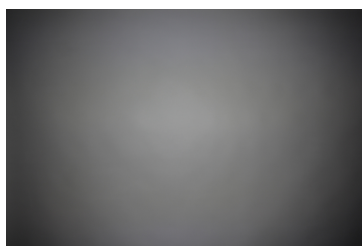
LED LLE G4 24x280mm 2000lm ADV
FWHM / FWTM 98.0 + 88.0° / 162.0 + 124.0°
Efficiency 83 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

TRIDONIC

LED LLE G4 24x280mm 650lm
FWHM / FWTM 99.0 + 89.0° / 163.0 + 125.0°
Efficiency 84 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

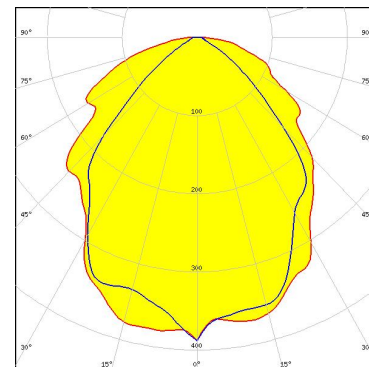


Light distribution files

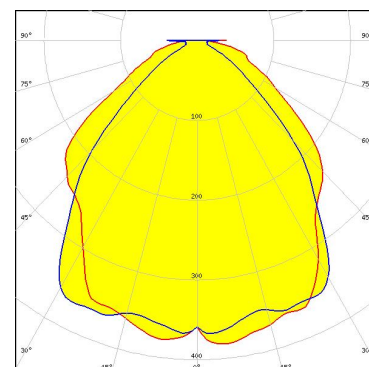
OPTICAL RESULTS (SIMULATED):



LED Bridgelux SMD 2835
 FWHM / FWTM 100.0 + 86.0° / 165.0 + 120.0°
 Efficiency 77 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



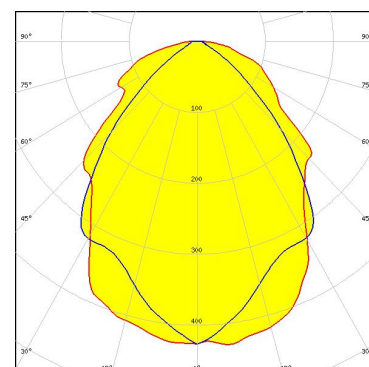
LED XP-G3
 FWHM / FWTM 105.0 + 89.0° / 161.0 + 124.0°
 Efficiency 81 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED LUXEON 2835 Line
 FWHM / FWTM 96.0 + 84.0° / 161.0 + 120.0°
 Efficiency 80 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 2
 Light colour/type White
 Required components:

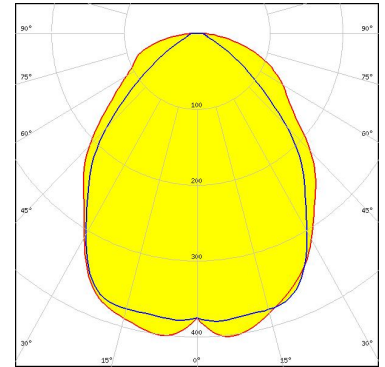


Light distribution files

OPTICAL RESULTS (SIMULATED):



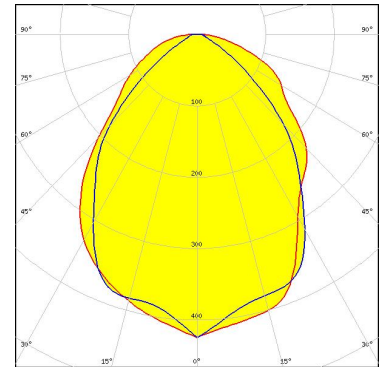
LED LUXEON 3030 2D (Round LES)
 FWHM / FWTM 93.0 + 84.0° / 162.0 + 124.0°
 Efficiency 82 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



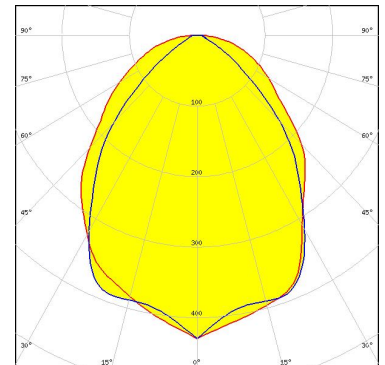
LED Duris E 2835
 FWHM / FWTM 83.0 + 91.0° / 122.0 + 159.0°
 Efficiency 82 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED SEOUL DC 3030C
 FWHM / FWTM 91.0 + 82.0° / 160.0 + 120.0°
 Efficiency 82 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

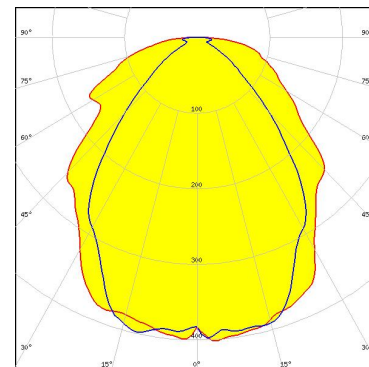


Light distribution files

OPTICAL RESULTS (SIMULATED):



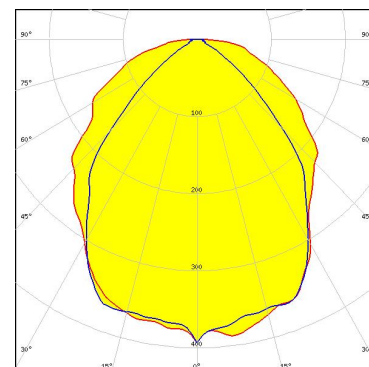
LED: SEOUL DC 3528
 FWHM / FWTM: 100.0 + 80.0° / 170.0 + 118.0°
 Efficiency: 78 %
 Peak intensity: 0.4 cd/lm
 LEDs/each optic: 1
 Light colour/type: White
 Required components:



Light distribution files



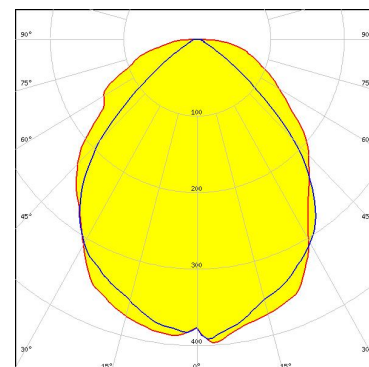
LED: SEOUL DC 3528
 FWHM / FWTM: 102.0 + 86.0° / 169.0 + 118.0°
 Efficiency: 77 %
 Peak intensity: 0.4 cd/lm
 LEDs/each optic: 1
 Light colour/type: White
 Required components:



Light distribution files



LED: SEOUL DC 3528
 FWHM / FWTM: 99.0 + 88.0° / 166.0 + 118.0°
 Efficiency: 77 %
 Peak intensity: 0.4 cd/lm
 LEDs/each optic: 2
 Light colour/type: White
 Required components:

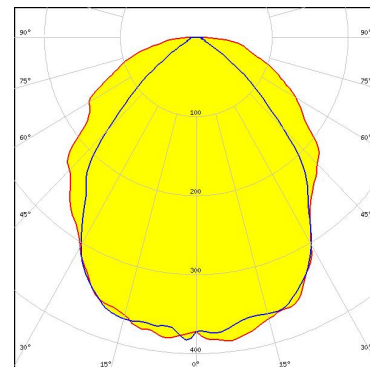


Light distribution files

OPTICAL RESULTS (SIMULATED):



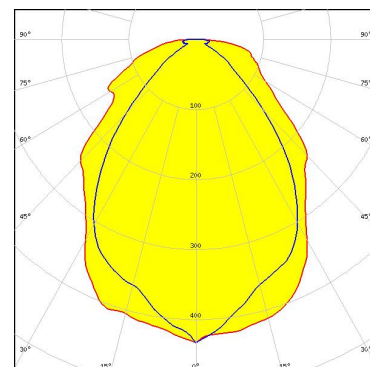
LED: SEOUL DC 3528
 FWHM / FWTM: 104.0 + 86.0° / 169.0 + 118.0°
 Efficiency: 77 %
 Peak intensity: 0.4 cd/lm
 LEDs/each optic: 1
 Light colour/type: White
 Required components:



Light distribution files



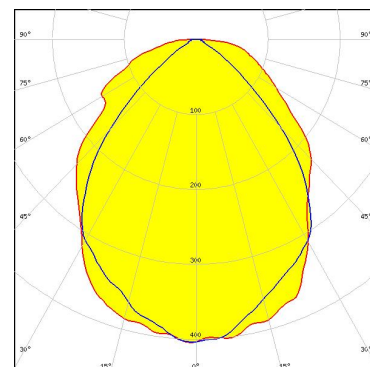
LED: SEOUL DC 3528
 FWHM / FWTM: 95.0 + 78.0° / 169.0 + 116.0°
 Efficiency: 78 %
 Peak intensity: 0.4 cd/lm
 LEDs/each optic: 2
 Light colour/type: White
 Required components:



Light distribution files

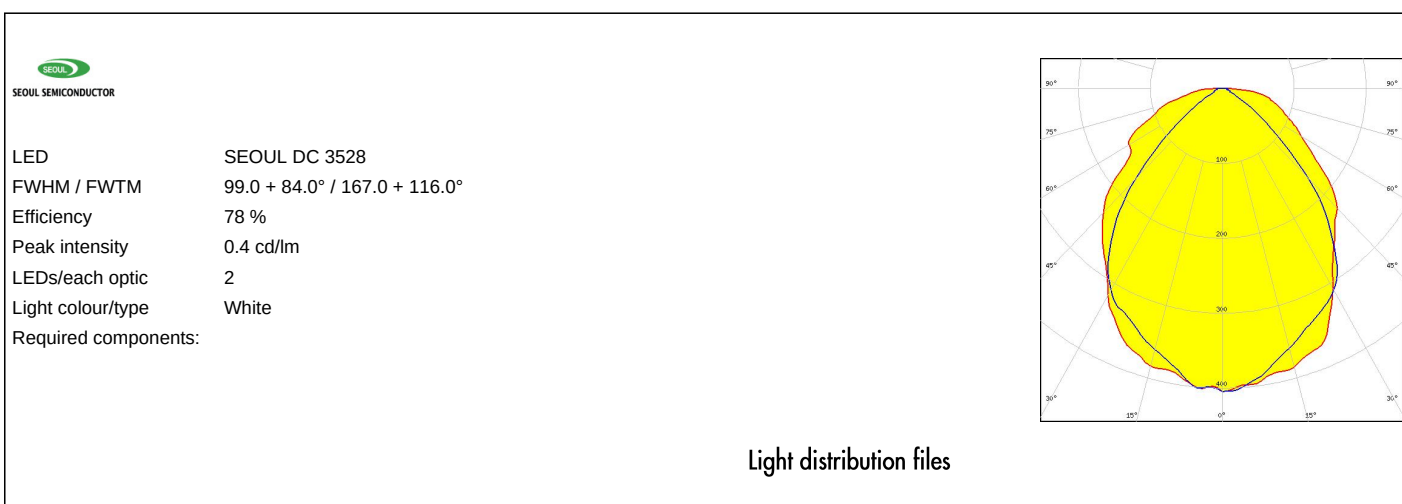
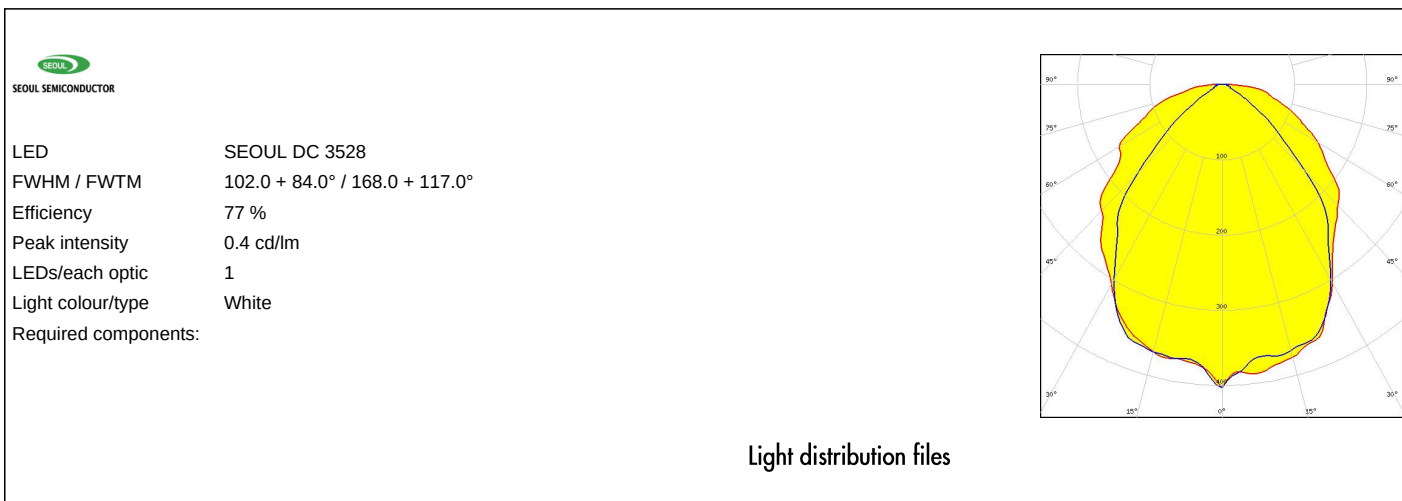


LED: SEOUL DC 3528
 FWHM / FWTM: 99.0 + 84.0° / 167.0 + 117.0°
 Efficiency: 78 %
 Peak intensity: 0.4 cd/lm
 LEDs/each optic: 2
 Light colour/type: White
 Required components:



Light distribution files

OPTICAL RESULTS (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:

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