

FLORENCE-1R-Z90

~90° + 110° wide beam

SPECIFICATION:

Dimensions	19.5 x 286.0 mm
Height	7 mm
Fastening	clips
ROHS compliant	yes 

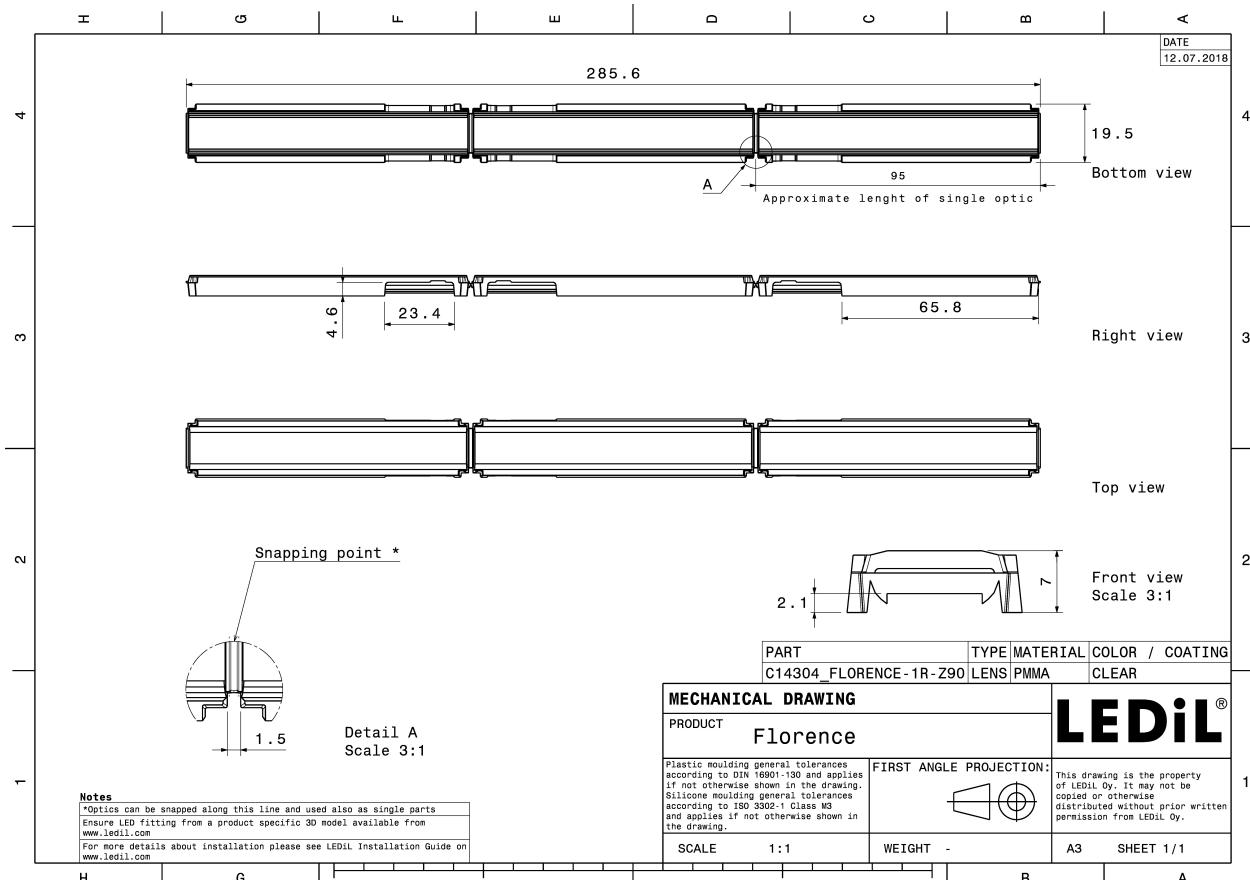


MATERIALS:

Component	Type	Material	Colour	Finish
FLORENCE-1R-Z90	Linear lens	PMMA	clear	

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
F14304_FLORENCE-1R-Z90 » Box size: 398 x 298 x 265 mm	165	45	15	7.5

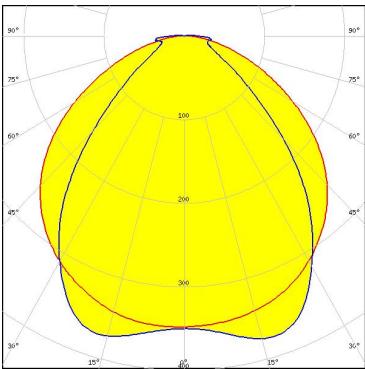


See also our general installation guide: www.ledil.com/installation_guide

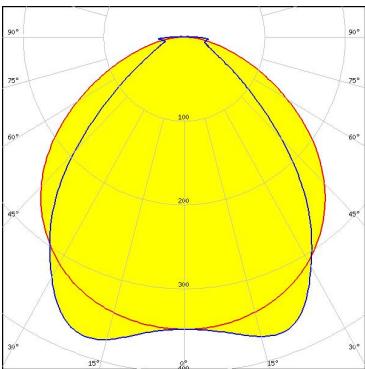
OPTICAL RESULTS (MEASURED):



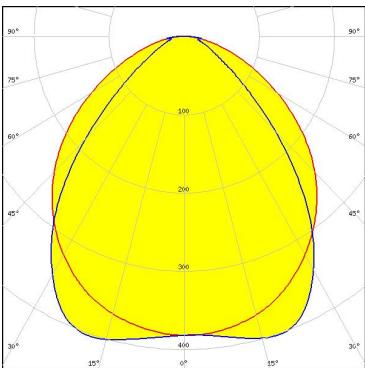
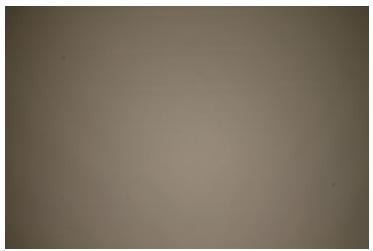
LED CALGD0414-M8W1
 FWHM / FWTM $89.0 + 115.0^\circ / 151.0 + 159.0^\circ$
 Efficiency 93 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



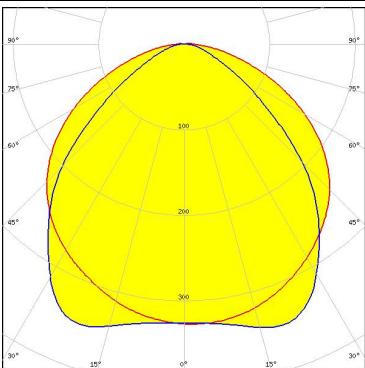
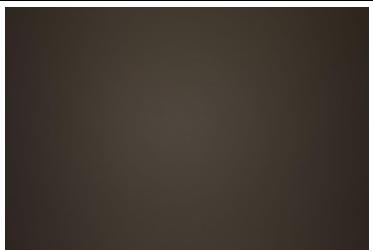
LED CALGD0814-M17W1
 FWHM / FWTM $90.0 + 114.0^\circ / 137.0 + 159.0^\circ$
 Efficiency 93 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED L0-280024-xxx-C0800-L267
 FWHM / FWTM $88.0 + 106.0^\circ / 131.0 + 156.0^\circ$
 Efficiency 92 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



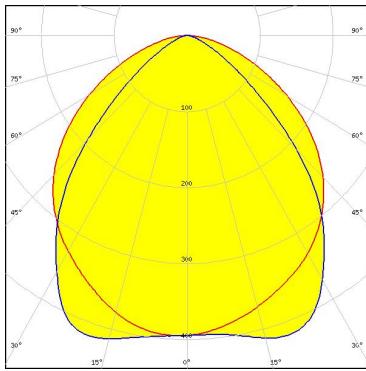
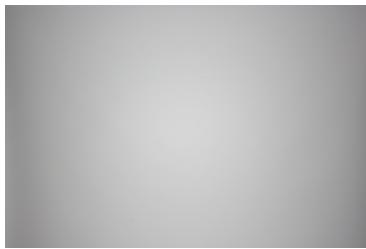
LED XH-B/G
 FWHM / FWTM $97.0 + 117.0^\circ / 139.0 + 165.0^\circ$
 Efficiency 90 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (MEASURED):

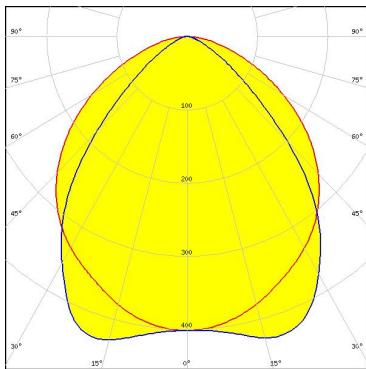
LUMILEDS

LED LUXEON 3014
FWHM / FWTM $91.0 + 109.0^\circ / 125.0 + 156.0^\circ$
Efficiency 94 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



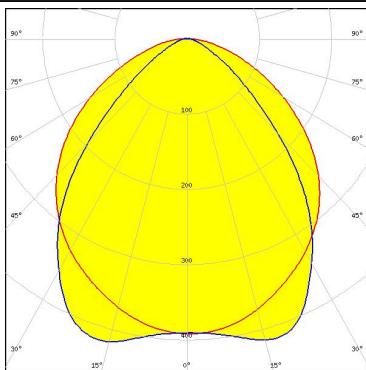
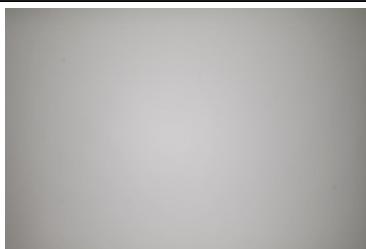
LUMILEDS

LED LUXEON 3020
FWHM / FWTM $89.0 + 108.0^\circ / 123.0 + 157.0^\circ$
Efficiency 94 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



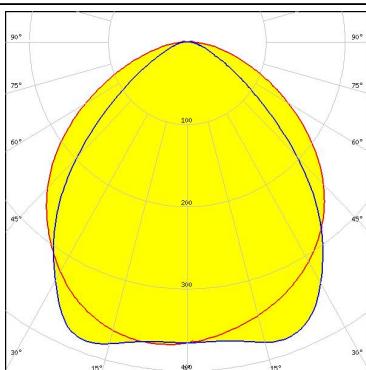
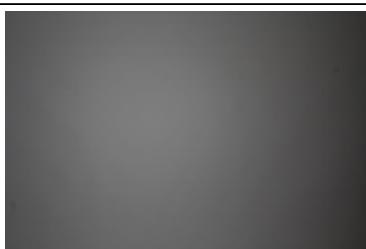
LUMILEDS

LED LUXEON 3030 2D (Round LES)
FWHM / FWTM $88.0 + 108.0^\circ / 125.0 + 157.0^\circ$
Efficiency 92 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LUMILEDS

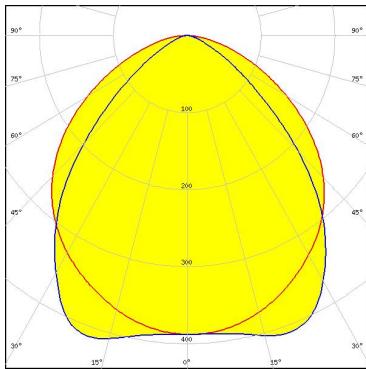
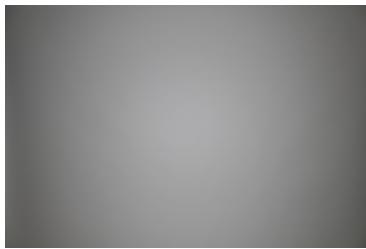
LED LUXEON 3535 2D
FWHM / FWTM $92.0 + 110.0^\circ / 133.0 + 160.0^\circ$
Efficiency 93 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OPTICAL RESULTS (MEASURED):

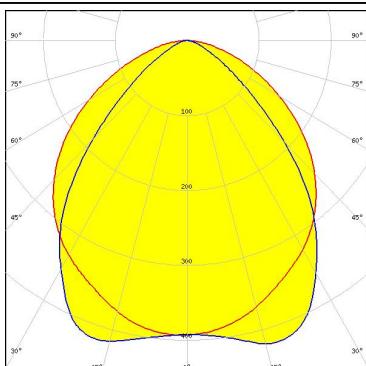
LUMILEDS

LED LUXEON 3535L
 FWHM / FWTM 92.0 + 109.0° / 128.0 + 157.0°
 Efficiency 94 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



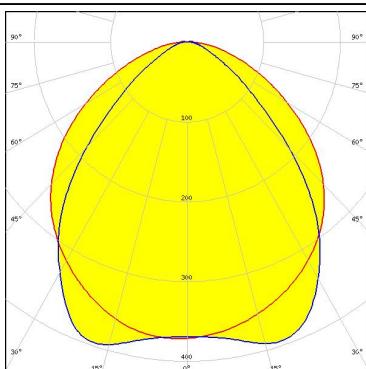
LUMINUS

LED MP-2016
 FWHM / FWTM 89.0 + 108.0° / 125.0 + 157.0°
 Efficiency 93 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



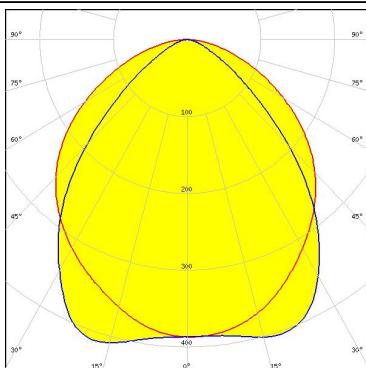
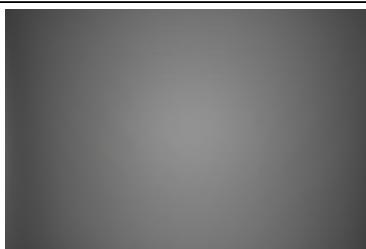
NICHIA

LED NF2x757D
 FWHM / FWTM 90.0 + 110.0° / 131.0 + 160.0°
 Efficiency 93 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



NICHIA

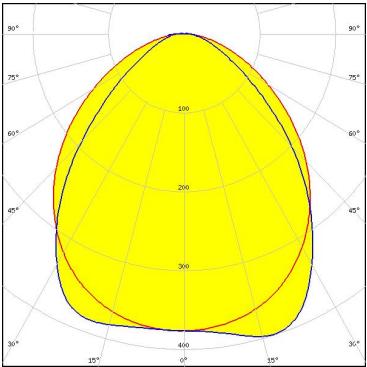
LED NF2x757G
 FWHM / FWTM 90.0 + 108.0° / 127.0 + 158.0°
 Efficiency 92 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (MEASURED):

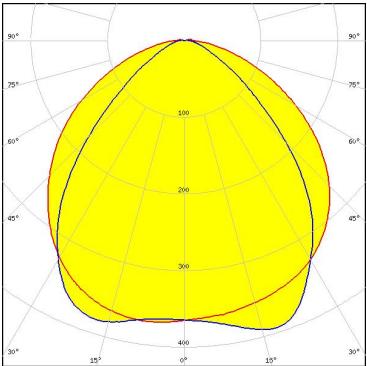
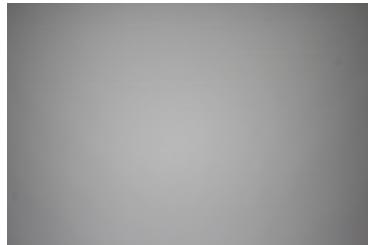


LED NFSW757H
 FWHM / FWTM $104.0 + 89.0^\circ / 156.0 + 140.0^\circ$
 Efficiency 94 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C14353_FLORENCE-1R-CLIP-A

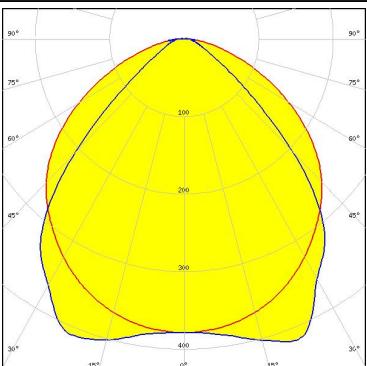
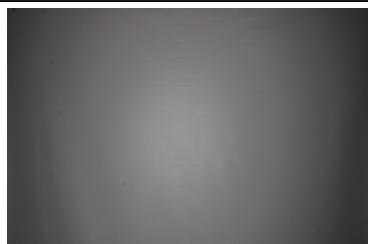


Opto Semiconductors

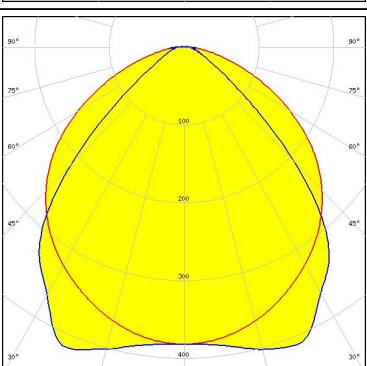
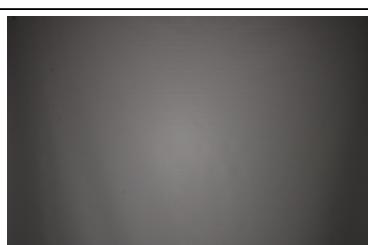
LED Duris S5 (2 chip)
 FWHM / FWTM $90.0 + 113.0^\circ / 131.0 + 161.0^\circ$
 Efficiency 94 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED Fortimo LED Line 1ft HF 1R HV5
 FWHM / FWTM $113.0 + 90.0^\circ / 157.0 + 122.0^\circ$
 Efficiency 96 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C14353_FLORENCE-1R-CLIP-A



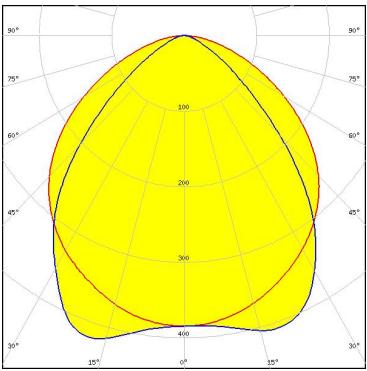
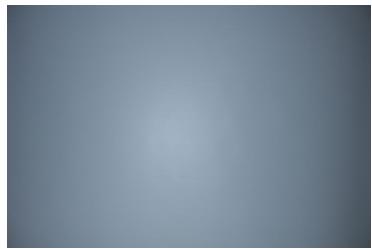
LED Fortimo LED Line 1ft MF 1R HV5 & LV5
 FWHM / FWTM $113.0 + 91.0^\circ / 157.0 + 122.0^\circ$
 Efficiency 96 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C14353_FLORENCE-1R-CLIP-A



OPTICAL RESULTS (MEASURED):

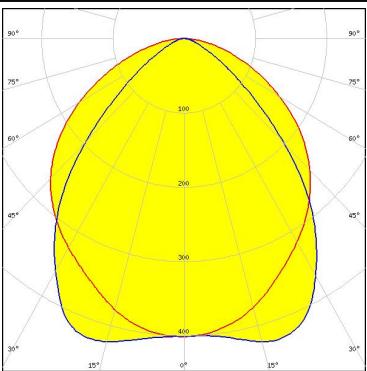
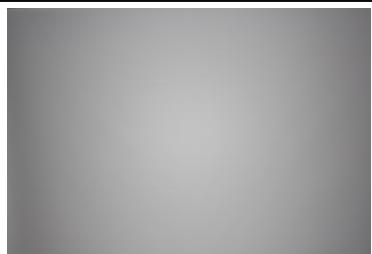
SAMSUNG

LED LM28xB Series
 FWHM / FWTM $91.0 + 111.0^\circ / 127.0 + 158.0^\circ$
 Efficiency 94 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



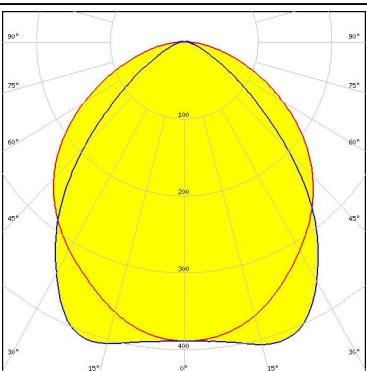
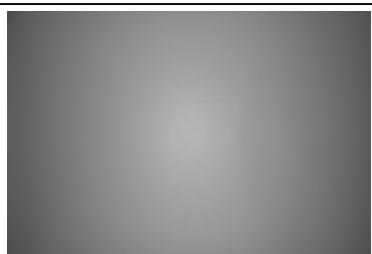
SAMSUNG

LED LM301A
 FWHM / FWTM $89.0 + 109.0^\circ / 125.0 + 158.0^\circ$
 Efficiency 94 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



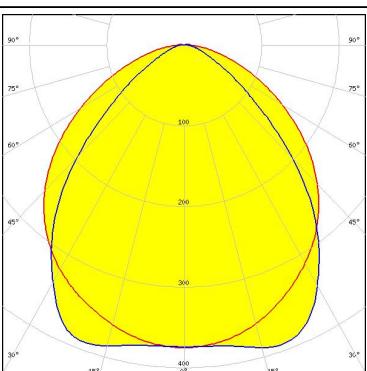
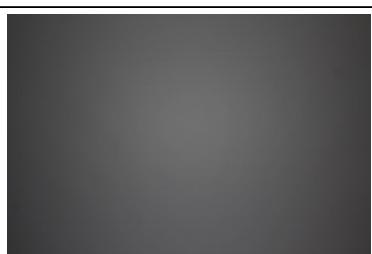
SAMSUNG

LED LM302A
 FWHM / FWTM $90.0 + 108.0^\circ / 128.0 + 159.0^\circ$
 Efficiency 93 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



SAMSUNG

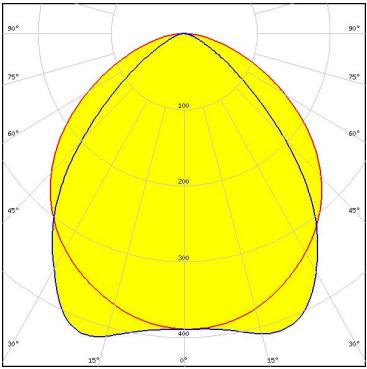
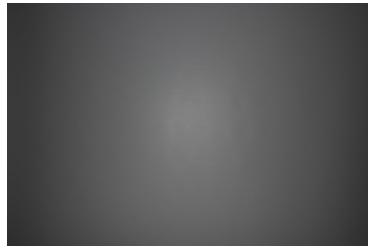
LED LM561B
 FWHM / FWTM $91.0 + 109.0^\circ / 131.0 + 159.0^\circ$
 Efficiency 93 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (MEASURED):

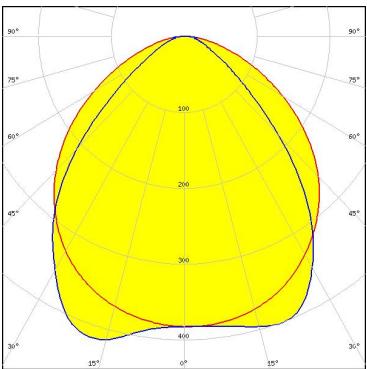
SAMSUNG

LED LM561C
 FWHM / FWTM $90.0 + 110.0^\circ / 126.0 + 157.0^\circ$
 Efficiency 94 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



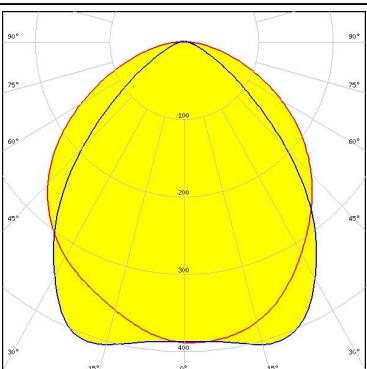
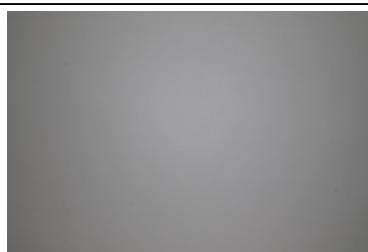
SAMSUNG

LED LT-S282N
 FWHM / FWTM $91.0 + 109.0^\circ / 156.0 + 131.0^\circ$
 Efficiency 94 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



 SEOUL SEMICONDUCTOR

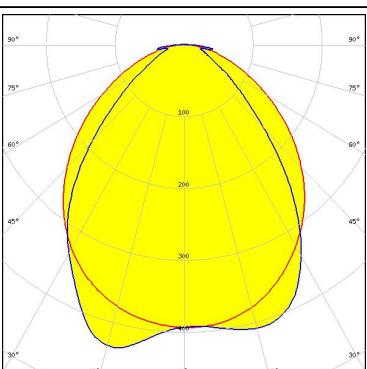
LED SEOUL 3030
 FWHM / FWTM $90.0 + 109.0^\circ / 127.0 + 158.0^\circ$
 Efficiency 92 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



 SEOUL SEMICONDUCTOR

LED SEOUL DC 3030
 FWHM / FWTM $103.0 + 86.0^\circ / 156.0 + 151.0^\circ$
 Efficiency 94 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

C14353_FLORENCE-1R-CLIP-A

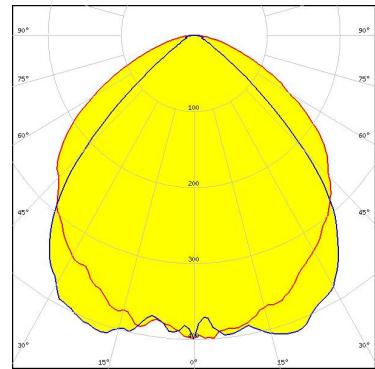


OPTICAL RESULTS (SIMULATED):

LUMILEDS

LED	LUXEON 2835 Line
FWHM / FWTM	90.0 + 111.0° / 114.0 + 152.0°
Efficiency	93 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White

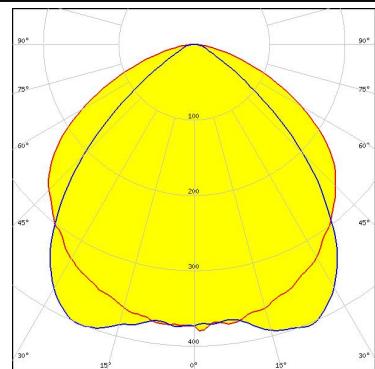
Required components:



LUMILEDS

LED	LUXEON 5050 Round LES
FWHM / FWTM	91.0 + 111.0° / 120.0 + 153.0°
Efficiency	94 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White

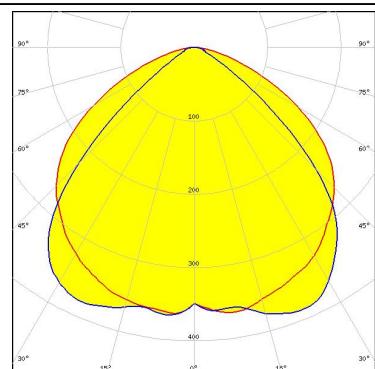
Required components:



OSRAM

LED	Duris E 2835
FWHM / FWTM	94.0 + 106.0° / 120.0 + 150.0°
Efficiency	93 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White

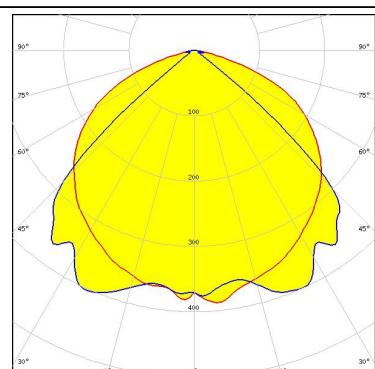
Required components:



OSRAM

LED	OSCONIQ C 2424
FWHM / FWTM	117.0 + 96.0° / 152.0 + 106.0°
Efficiency	94 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



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:

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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