

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 mm
Height	8.5 mm
Fastening	screw
ROHS compliant	yes ⓘ

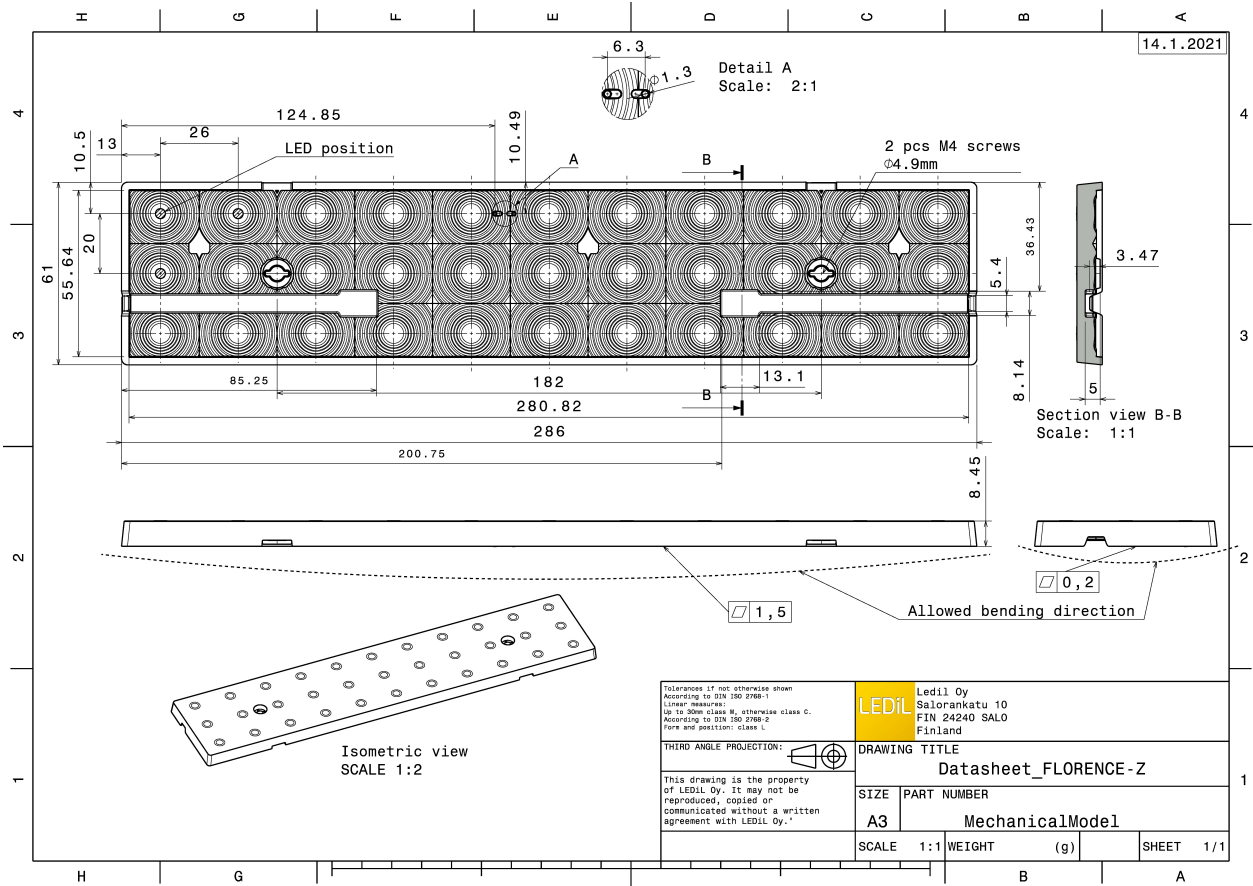
MATERIALS:

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



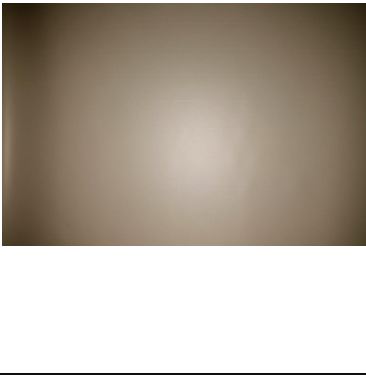
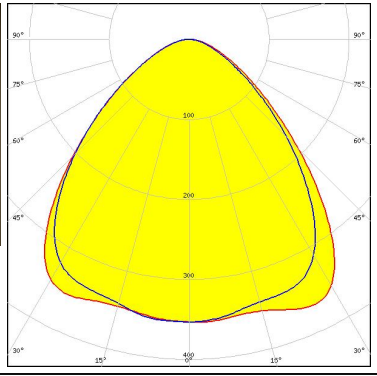

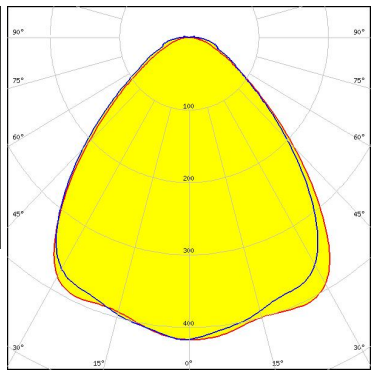

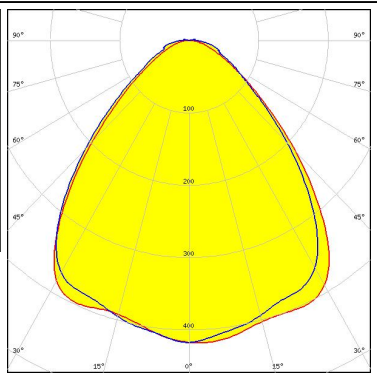
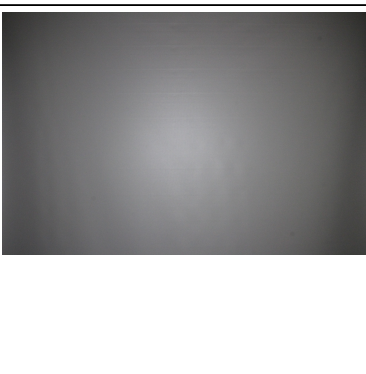
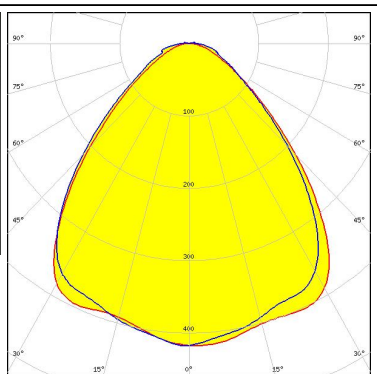
ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
F13853_FLORENCE-Z90 » Box size: 398 x 298 x 140 mm	72	18	6	7.8


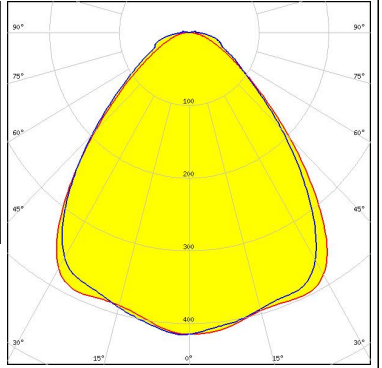
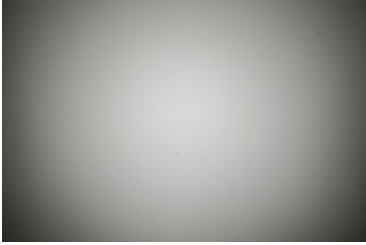
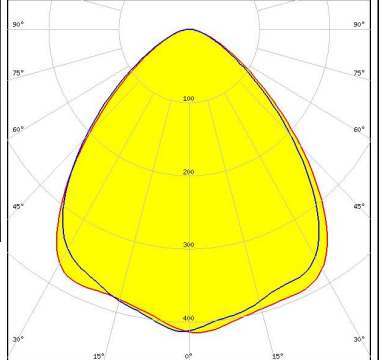
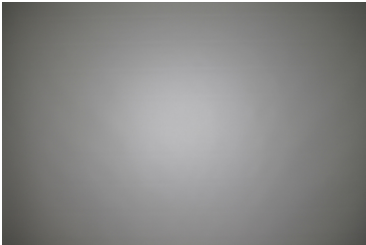
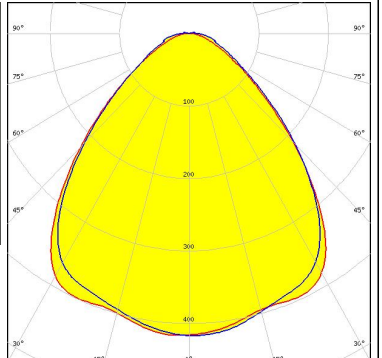
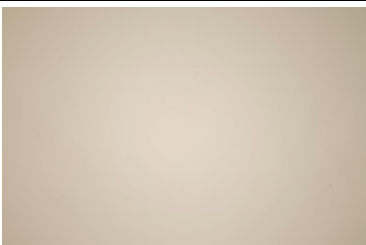
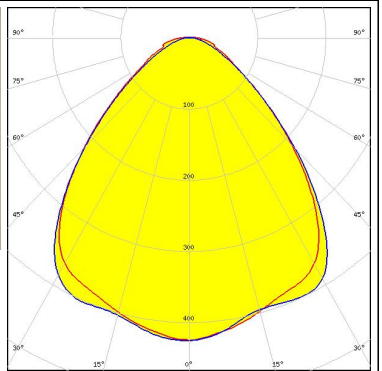


See also our general installation guide: www.ledil.com/installation_guide

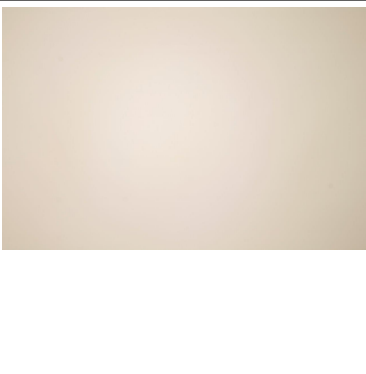
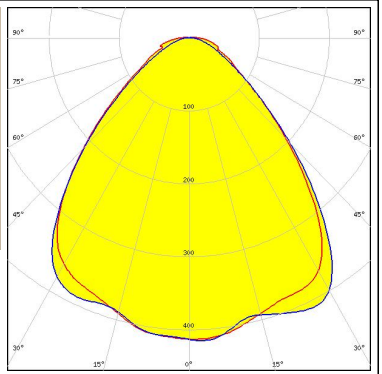

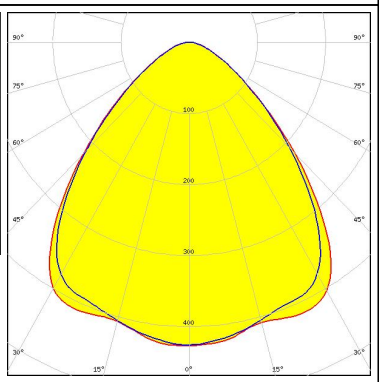

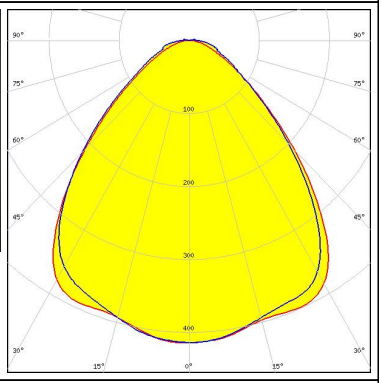

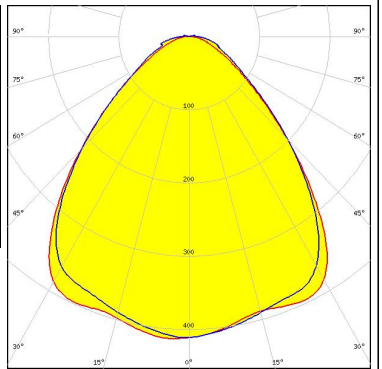
OPTICAL RESULTS (MEASURED):

<p>CREE LEDs</p> <p>LED XH-B/G FWHM / FWTM 95.0° / 140.0° Efficiency 82 % Peak intensity 0.4 cd/m LEDs/each optic 1 Light colour White Required components:</p>		
<p>FRANK</p> <p>LED LED-Modul 280 x 55 mm 1B FWHM / FWTM 90.0° / 134.0 + 144.0° Efficiency 92 % Peak intensity 0.4 cd/m LEDs/each optic 1 Light colour White Required components:</p>		
<p>FRANK</p> <p>LED LED-Modul 280 x 55 mm 1F FWHM / FWTM 90.0° / 133.0 + 144.0° Efficiency 92 % Peak intensity 0.4 cd/m LEDs/each optic 1 Light colour White Required components:</p>		
<p>FRANK</p> <p>LED LED-Modul 280 x 55 mm 2F FWHM / FWTM 90.0° / 133.0 + 144.0° Efficiency 92 % Peak intensity 0.4 cd/m LEDs/each optic 1 Light colour White Required components:</p>		

OPTICAL RESULTS (MEASURED):

<p>LUMILEDS</p> <p>LED LUXEON 3030 2D (Square LES)</p> <p>FWHM / FWTM 88.0 + 87.0° / 133.0 + 153.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 0.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>LUMILEDS</p> <p>LED LUXEON 3535 2D</p> <p>FWHM / FWTM 92.0° / 135.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 0.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>LUMILEDS</p> <p>LED LUXEON 3535L HE</p> <p>FWHM / FWTM 92.0° / 139.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 0.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>LUMILEDS</p> <p>LED LUXEON XR-3535L (L202 - xxxx033C30001)</p> <p>FWHM / FWTM 91.0° / 134.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 0.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

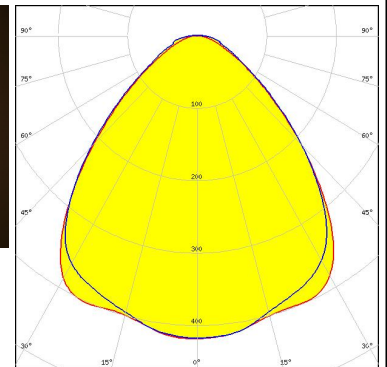
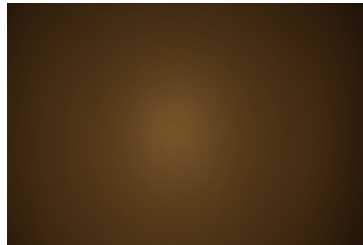
OPTICAL RESULTS (MEASURED):

<p>LUMINUS</p> <p>LED MP-2016 FWHM / FWTM 90.0° / 140.0° Efficiency 91 % Peak intensity 0.4 cd/m LEDs/each optic 1 Light colour White Required components:</p>		
<p>NICHIA</p> <p>LED NF2x757D FWHM / FWTM 92.0° / 134.0° Efficiency 90 % Peak intensity 0.4 cd/m LEDs/each optic 1 Light colour White Required components:</p>		
<p>NICHIA</p> <p>LED NFSW757H FWHM / FWTM 91.0 + 90.0° / 134.0 + 145.0° Efficiency 92 % Peak intensity 0.4 cd/m LEDs/each optic 1 Light colour White Required components:</p>		
<p>OSRAM</p> <p>LED PL-BAR-G3 1100 280x55 FWHM / FWTM 90.0° / 140.0° Efficiency 92 % Peak intensity 0.4 cd/m LEDs/each optic 1 Light colour White Required components:</p>		

OPTICAL RESULTS (MEASURED):

OSRAM

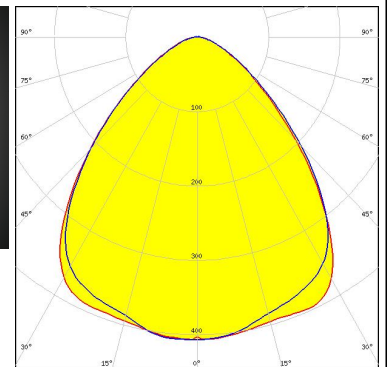
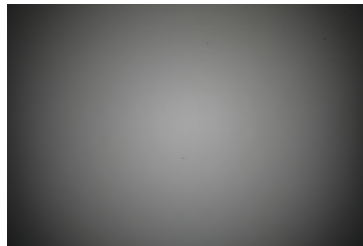
LED PLG2-BAR-1100-xxx-280x55-DC
 FWHM / FWTM 92.0° / 138.0°
 Efficiency 92 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM

Opto Semiconductors

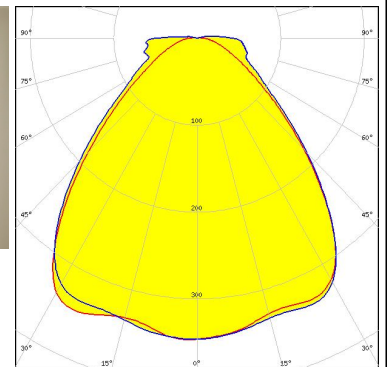
LED Duris E5
 FWHM / FWTM 92.0° / 135.0°
 Efficiency 88 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM

Opto Semiconductors

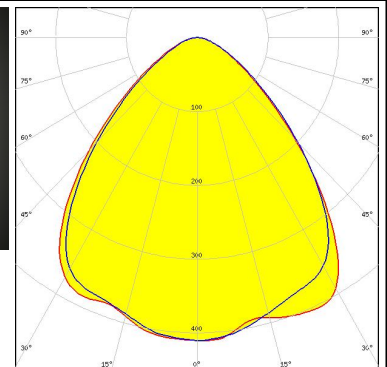
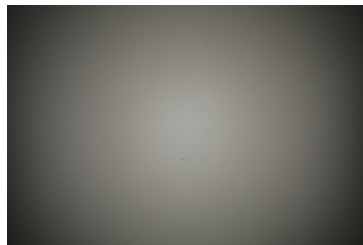
LED Duris S2
 FWHM / FWTM 95.0° / 165.0°
 Efficiency 90 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



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 White
 Required components:

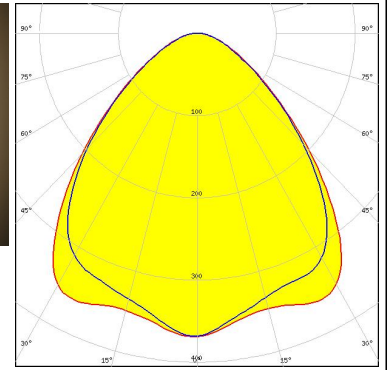
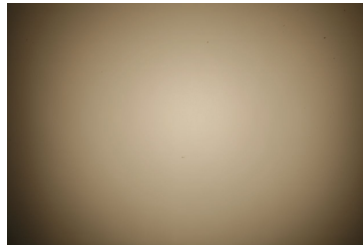


OPTICAL RESULTS (MEASURED):

OSRAM

Opto Semiconductors

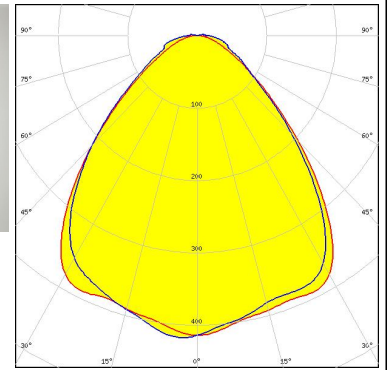
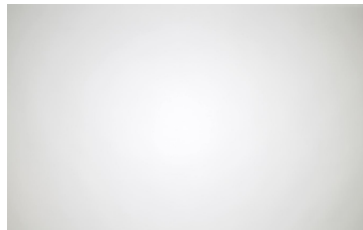
LED OSCONIQ P 2226
 FWHM / FWTM 94.0° / 140.0°
 Efficiency 83 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM

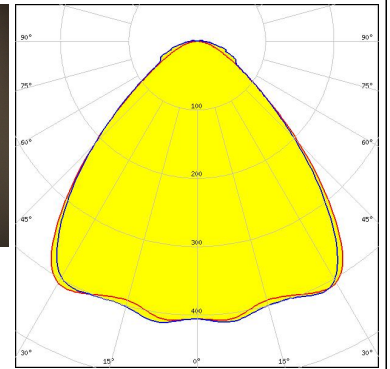
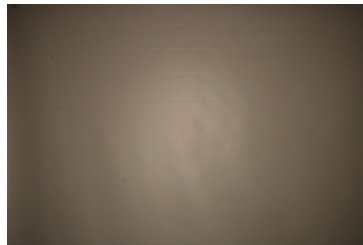
Opto Semiconductors

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 White
 Required components:



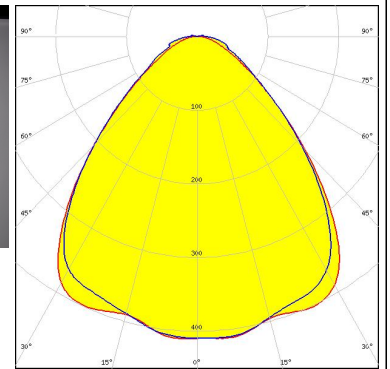
PHILIPS

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 White
 Required components:



PHILIPS

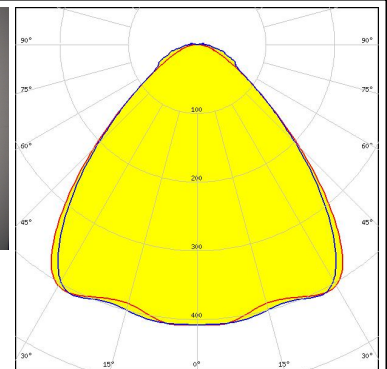
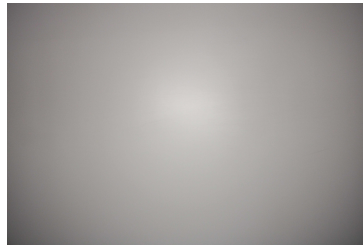
LED Fortimo LED Line 1ft 650lm 3R HV4 & LV4
 FWHM / FWTM 90.0° / 142.0°
 Efficiency 93 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (MEASURED):

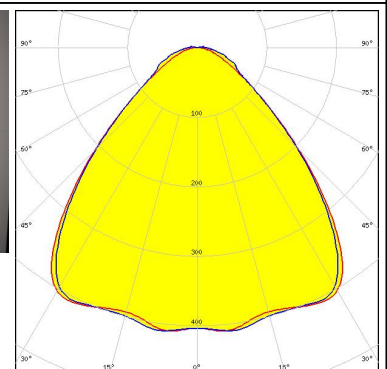
PHILIPS

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 White
 Required components:



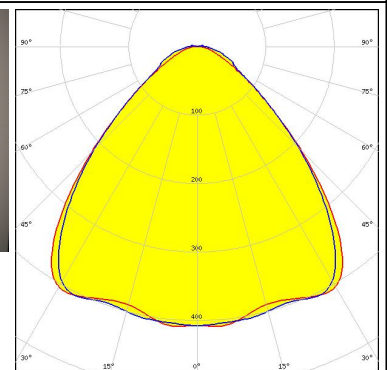
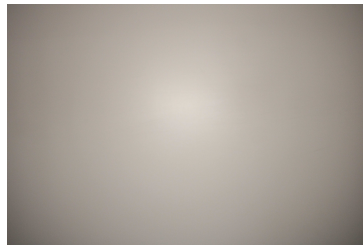
PHILIPS

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 White
 Required components:



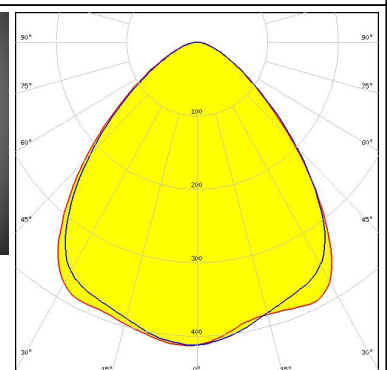
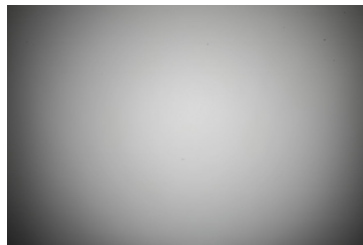
PHILIPS

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 White
 Required components:



SAMSUNG

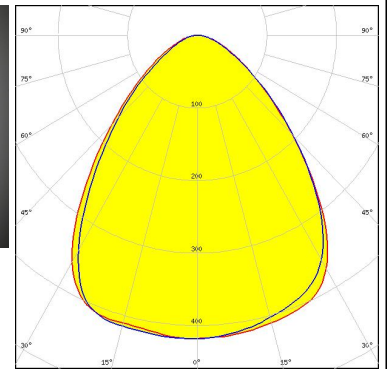
LED LM231 A/B
 FWHM / FWTM 91.0° / 134.0°
 Efficiency 88 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (MEASURED):

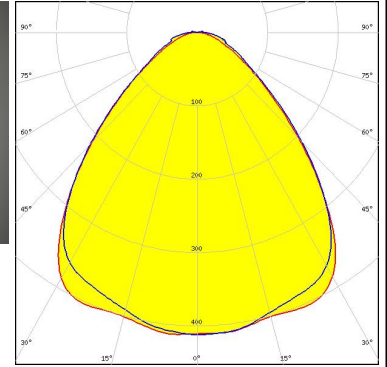
SAMSUNG

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



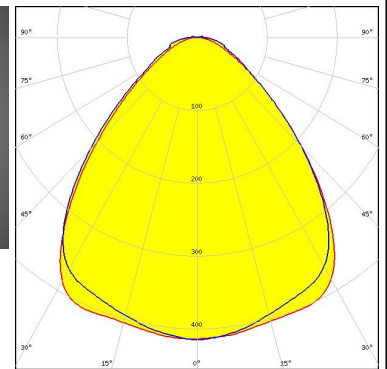
SAMSUNG

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



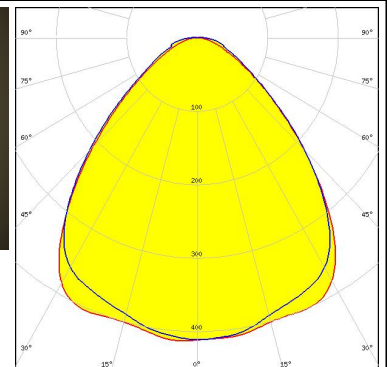
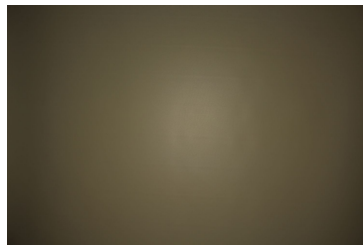
SAMSUNG

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

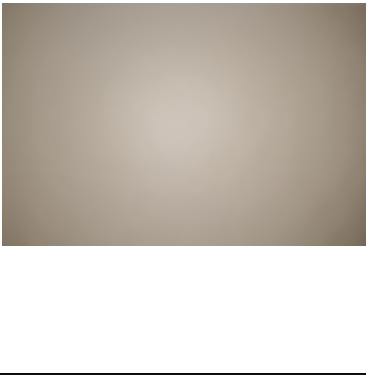
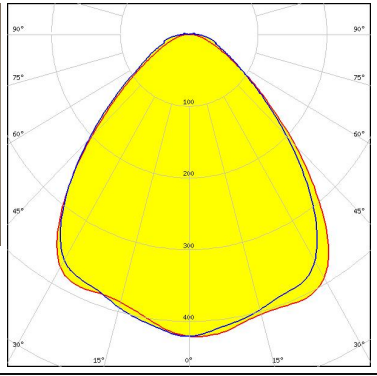
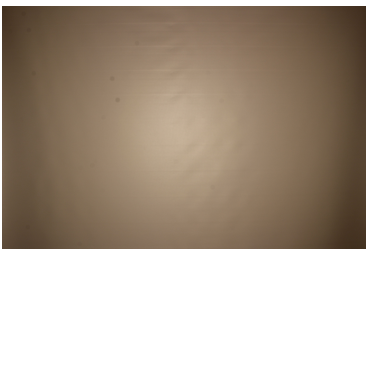
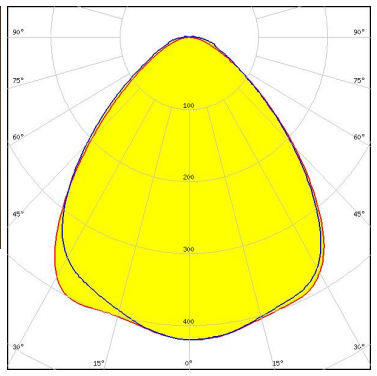

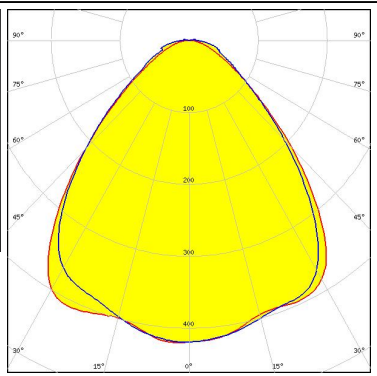
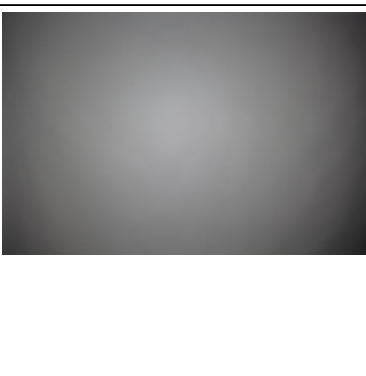
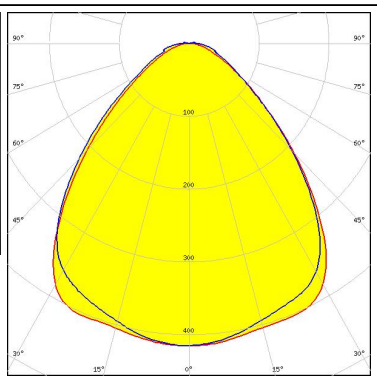


SAMSUNG

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



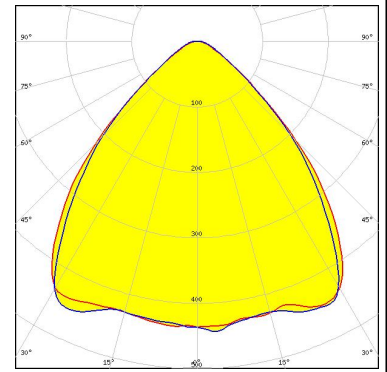
OPTICAL RESULTS (MEASURED):

<p>SEOUL SEMICONDUCTOR</p> <p>LED SEOUL 3030</p> <p>FWHM / FWTM 91.0° / 138.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 0.4 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>SEOUL SEMICONDUCTOR</p> <p>LED SEOUL 5630C</p> <p>FWHM / FWTM 90.0° / 136.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 0.4 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>SEOUL SEMICONDUCTOR</p> <p>LED SEOUL DC 3030</p> <p>FWHM / FWTM 90.0° / 140.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 0.4 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>TRIDONIC</p> <p>LED LLE G2 55x280mm 2000lm</p> <p>FWHM / FWTM 91.0° / 135.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 0.4 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

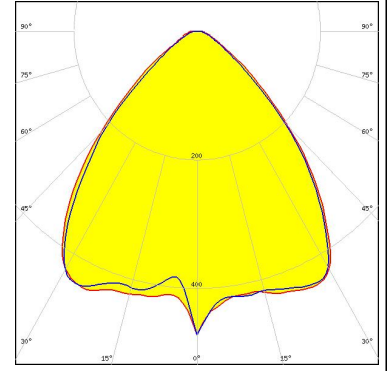
OPTICAL RESULTS (SIMULATED):



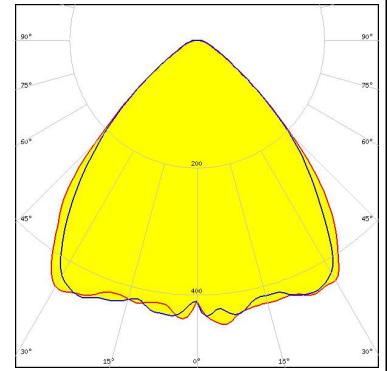
LED J Series 5050 Round LES
 FWHM / FWTM 88.0° / 120.0°
 Efficiency 91 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



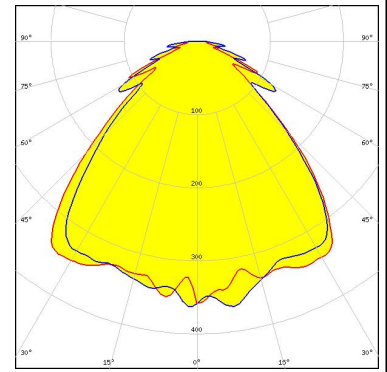
LED J Series 5050C 6V E Class
 FWHM / FWTM 87.0° / 122.0°
 Efficiency 91 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



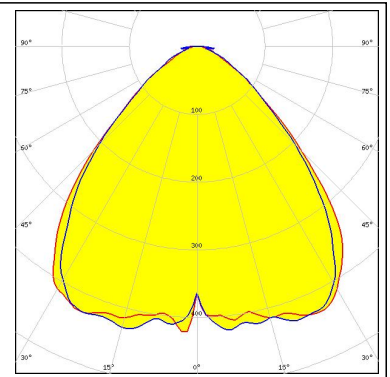
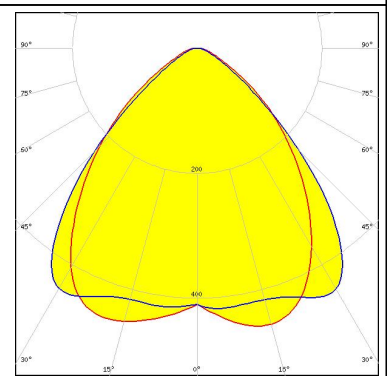
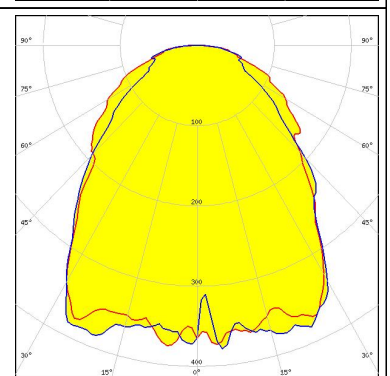
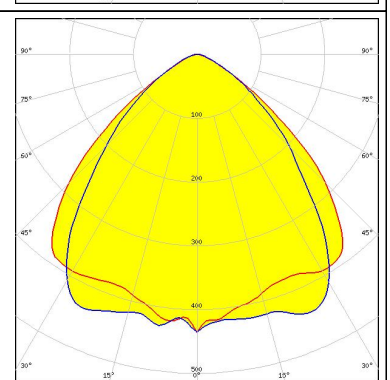
LED LUXEON 5050 Round LES
 FWHM / FWTM 90.0° / 120.0°
 Efficiency 91 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



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



OPTICAL RESULTS (SIMULATED):

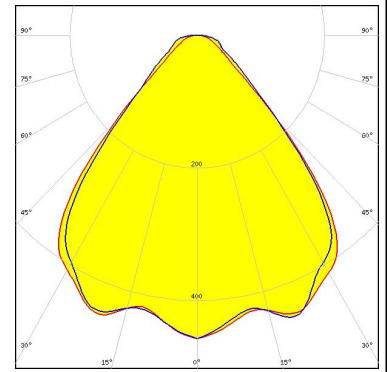
<p>NICHIA</p> <p>LED: NFMW48xA FWHM / FWTM: 89.0° / 130.0° Efficiency: 92 % Peak intensity: 0.4 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>NICHIA</p> <p>LED: NFSx757G FWHM / FWTM: 86.0 + 90.0° / 128.0 + 122.0° Efficiency: 92 % Peak intensity: 0.5 cd/lm LEDs/each optic: 2 Light colour: White Required components:</p>	
<p>NICHIA</p> <p>LED: NVSxE21A FWHM / FWTM: 90.0° / 163.0° Efficiency: 94 % Peak intensity: 0.4 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>OSRAM <small>Opto Semiconductors</small></p> <p>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: White Required components:</p>	

OPTICAL RESULTS (SIMULATED):

OSRAM

Opto Semiconductors

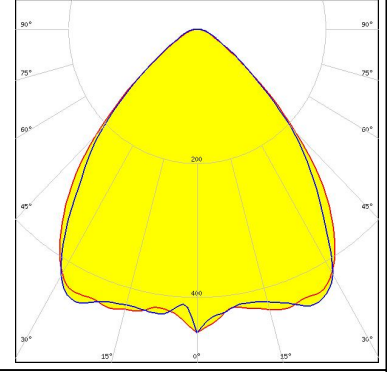
LED Duris E 2835
 FWHM / FWTM 85.0° / 122.0°
 Efficiency 87 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM

Opto Semiconductors

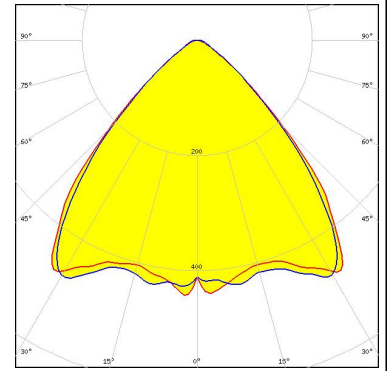
LED Duris S8
 FWHM / FWTM 89.0° / 121.0°
 Efficiency 91 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM

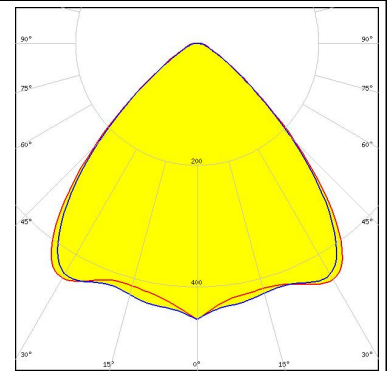
Opto Semiconductors

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



SAMSUNG

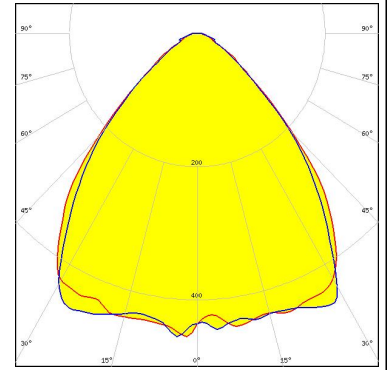
LED LM28xB Series
 FWHM / FWTM 90.0° / 120.0°
 Efficiency 93 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (SIMULATED):

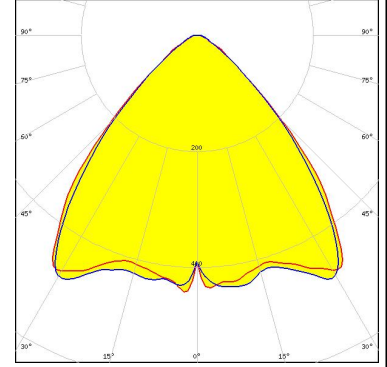
SAMSUNG

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



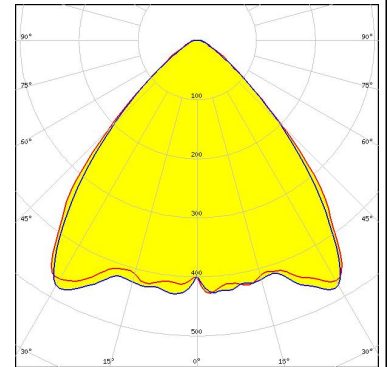
SAMSUNG

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



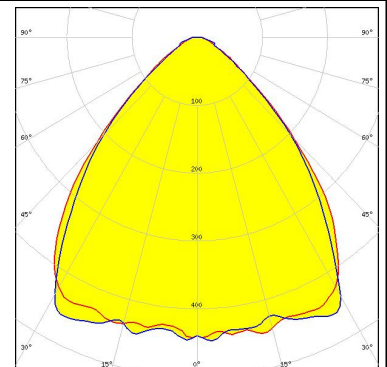
SAMSUNG

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


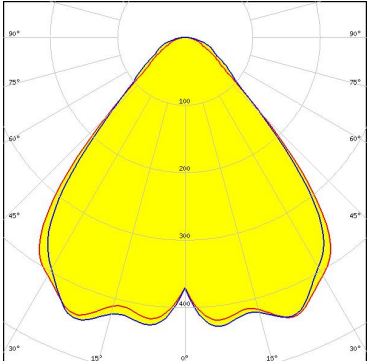



SAMSUNG

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



OPTICAL RESULTS (SIMULATED):

<p> SEOUL SEMICONDUCTOR</p> <p>LED: SEOUL 5630D FWHM / FWTM: 83.0° / 127.0° Efficiency: 84 % Peak intensity: 0.5 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p> SEOUL SEMICONDUCTOR</p> <p>LED: SEOUL DC 3030C FWHM / FWTM: 89.0° / 120.0° Efficiency: 94 % Peak intensity: 0.5 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	