

FLORENCE-Z60

~60° wide beam. Ideal for retail and industrial lighting. Can be used for general office lighting with shade.

SPECIFICATION:

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

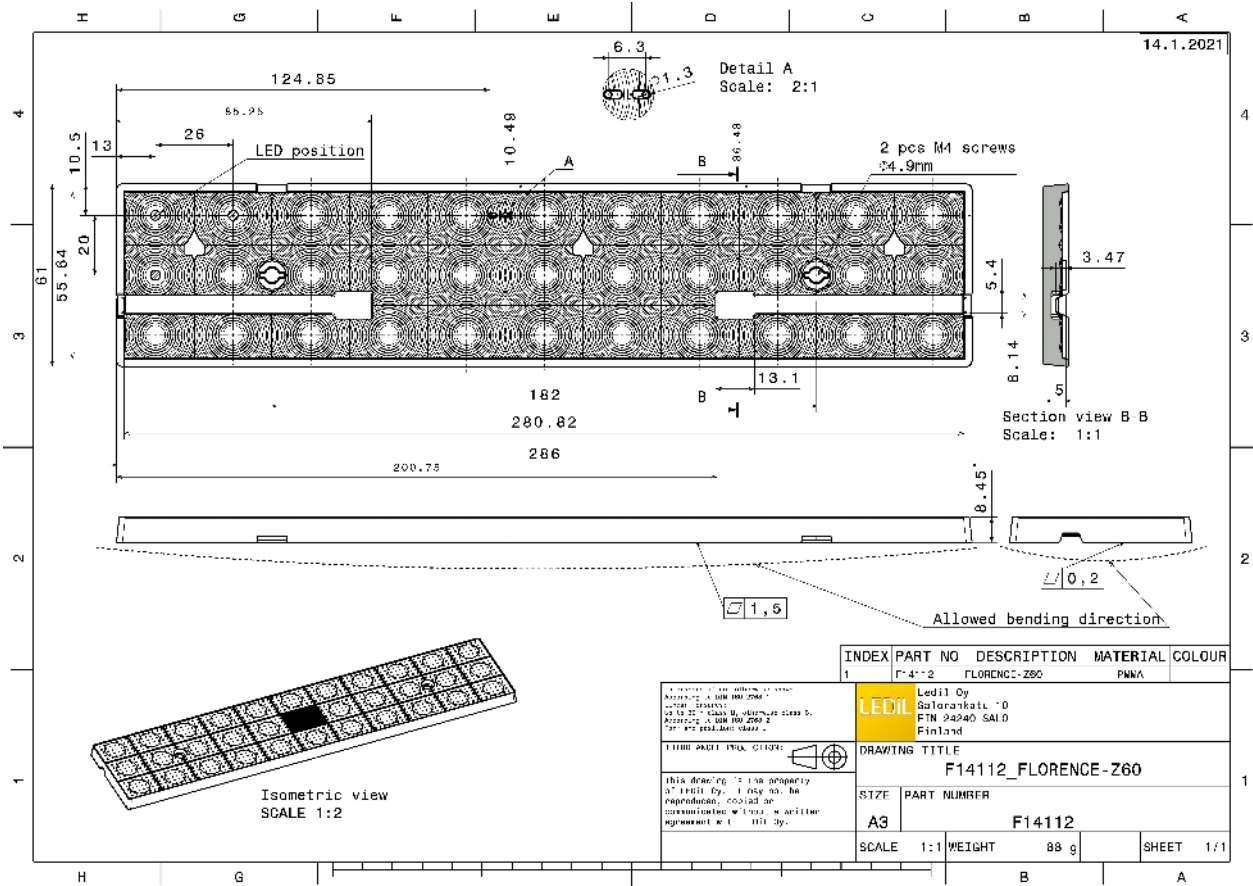
MATERIALS:

Component	Type	Material	Colour	Finish
FLORENCE-Z60	Linear lens	PMMA	clear	

ORDERING INFORMATION:

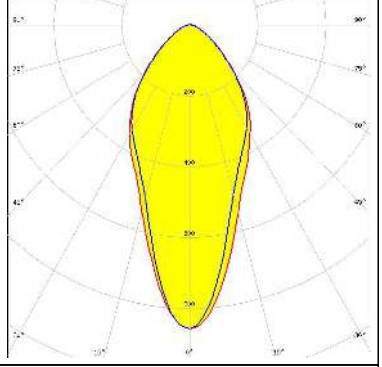

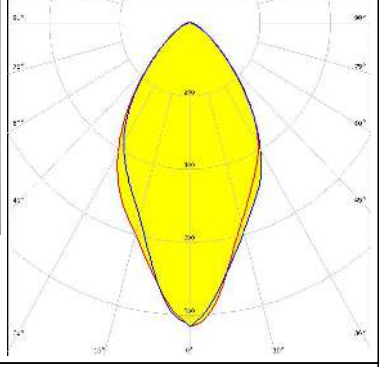
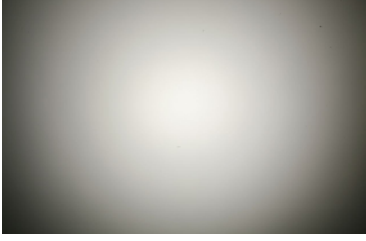
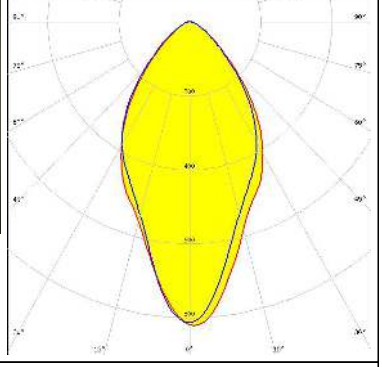
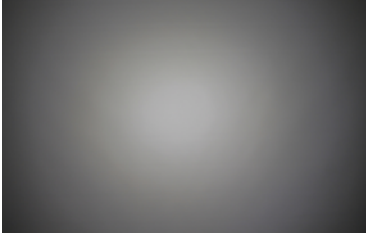
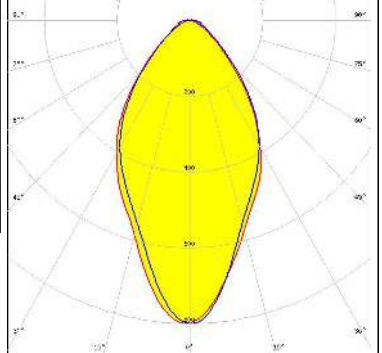
Component	Qty in box	MOQ	MPQ	Box weight (kg)
F14112_FLORENCE-Z60 » Box size: 398 x 298 x 140 mm	72	18	6	7.3



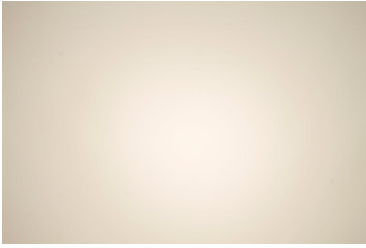
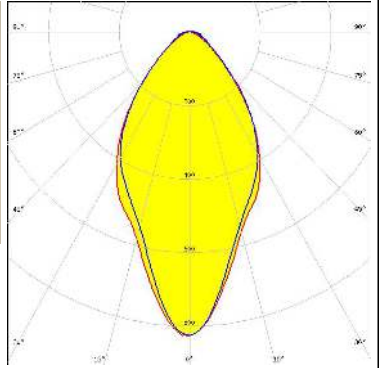
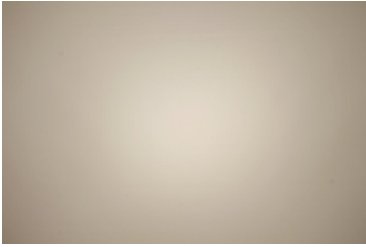
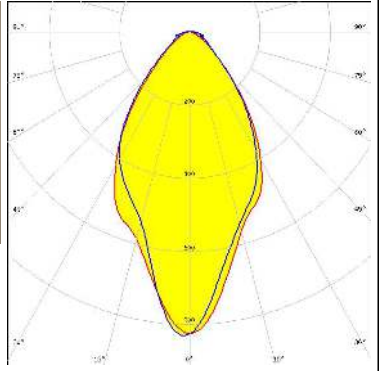
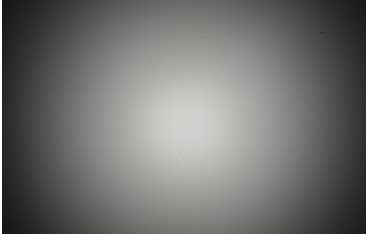
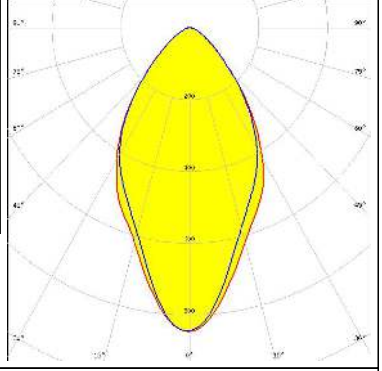

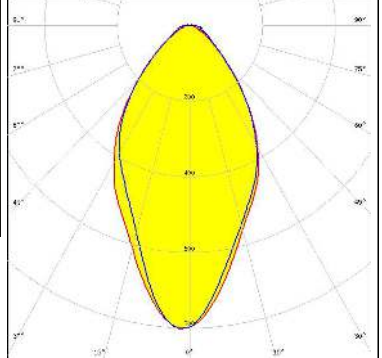


See also our general installation guide: www.ledil.com/installation_guide


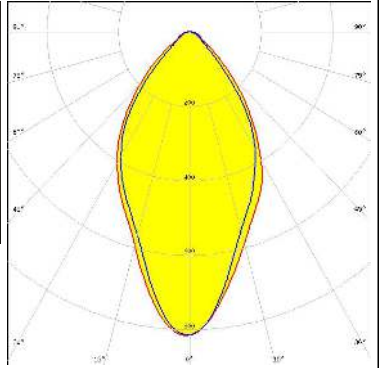

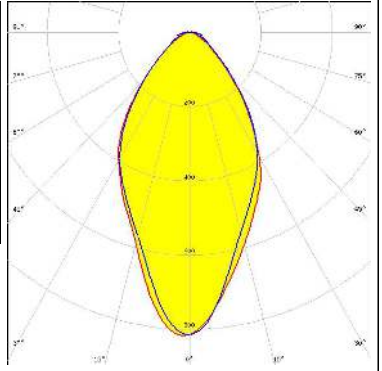
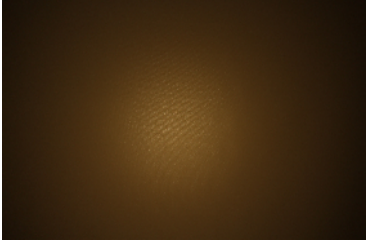
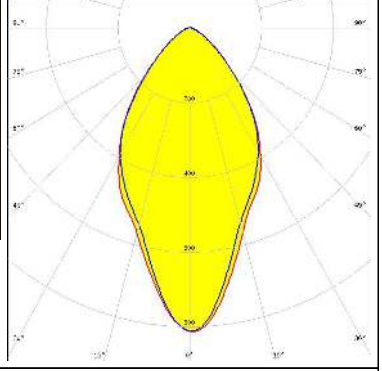

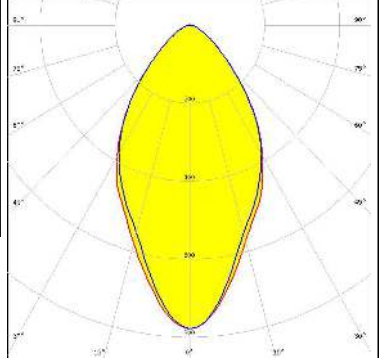
OPTICAL RESULTS (MEASURED):

<p>CREE LED</p> <p>LED: XH-B/G FWHM / FWTM: 43.0° / 111.0° Efficiency: 87 % Peak intensity: 0.9 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>		
<p>LUMILEDS</p> <p>LED: LUXEON 3030 2D (Round LES) FWHM / FWTM: 57.0° / 107.0° Efficiency: 88 % Peak intensity: 0.8 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>		
<p>LUMILEDS</p> <p>LED: LUXEON 3535 2D FWHM / FWTM: 57.0° / 108.0° Efficiency: 89 % Peak intensity: 0.8 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>		
<p>LUMILEDS</p> <p>LED: LUXEON 3535L HE FWHM / FWTM: 58.0° / 110.0° Efficiency: 93 % Peak intensity: 0.8 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>		

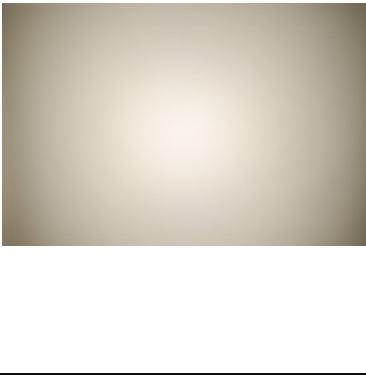
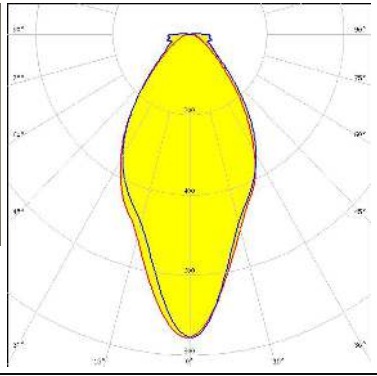

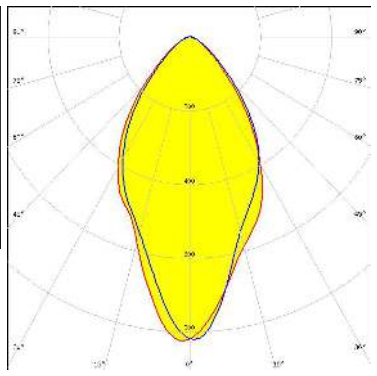
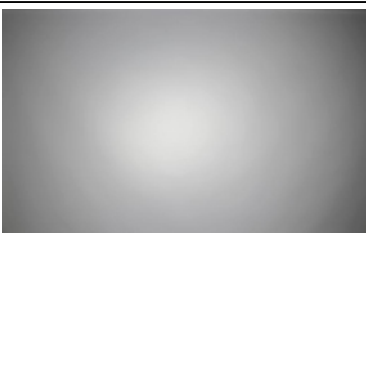
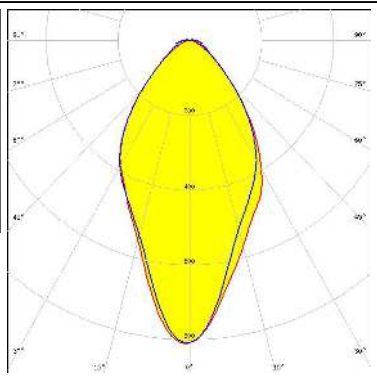
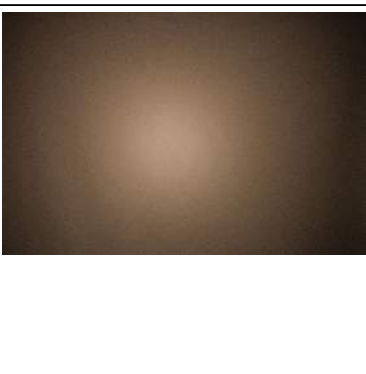
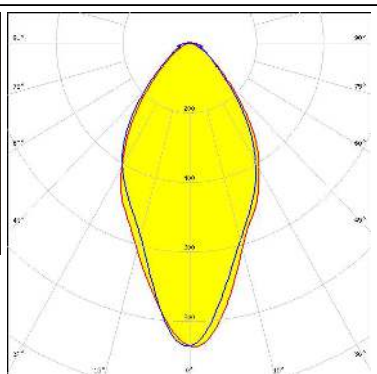
OPTICAL RESULTS (MEASURED):

<p>LUMILEDS</p> <p>LED LUXEON XR-3535L (L202 - xxxx033C30001)</p> <p>FWHM / FWTM 59.0° / 108.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 0.8 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>LUMINUS</p> <p>LED MP-2016</p> <p>FWHM / FWTM 58.0° / 105.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 0.8 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>NICHIA</p> <p>LED NF2x757D</p> <p>FWHM / FWTM 58.0° / 107.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 0.8 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>NICHIA</p> <p>LED NFSW757H</p> <p>FWHM / FWTM 58.0° / 110.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 0.8 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

OPTICAL RESULTS (MEASURED):

<p>NICHIA</p> <p>LED NFSW757H FWHM / FWTM 59.0 + 55.0° / 107.0 + 98.0° Efficiency 89 % Peak intensity 0.8 cd/m LEDs/each optic 1 Light colour White Required components: C14646_FLORENCE-3R-SHD-WHT</p>		
<p>OSRAM</p> <p>LED PL-BAR-G3 1100 280x55 FWHM / FWTM 57.0° / 109.0° Efficiency 93 % Peak intensity 0.8 cd/m LEDs/each optic 1 Light colour White Required components:</p>		
<p>OSRAM</p> <p>LED PLG2-BAR-1100-xxx-280x55-DC FWHM / FWTM 57.0° / 108.0° Efficiency 88 % Peak intensity 0.8 cd/m LEDs/each optic 1 Light colour White Required components:</p>		
<p>OSRAM <small>Opto Semiconductors</small></p> <p>LED Duris E5 FWHM / FWTM 59.0° / 109.0° Efficiency 89 % Peak intensity 0.8 cd/m LEDs/each optic 1 Light colour White Required components:</p>		

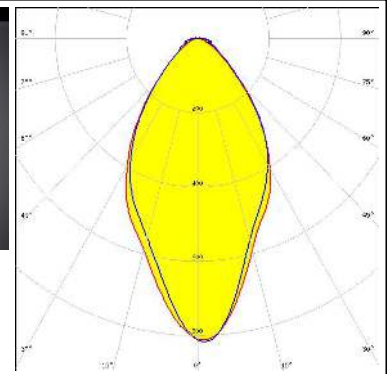
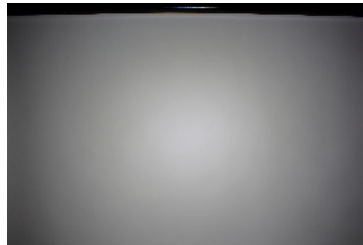
OPTICAL RESULTS (MEASURED):

<p>OSRAM Opto Semiconductors</p> <p>LED Duris S2</p> <p>FWHM / FWTM 55.0° / 111.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 0.8 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>OSRAM Opto Semiconductors</p> <p>LED Duris S5 (Single chip)</p> <p>FWHM / FWTM 58.0° / 107.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 0.8 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>OSRAM Opto Semiconductors</p> <p>LED OSLON Square CSSRM2/CSSRM3</p> <p>FWHM / FWTM 56.0° / 111.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 0.8 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>PHILIPS</p> <p>LED Fortimo LED Line VO 1ft MF 3R HV5</p> <p>FWHM / FWTM 55.0° / 107.0°</p> <p>Efficiency 95 %</p> <p>Peak intensity 0.9 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

OPTICAL RESULTS (MEASURED):

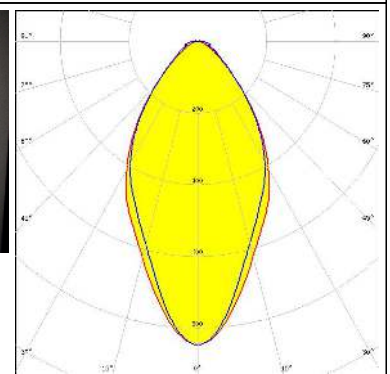
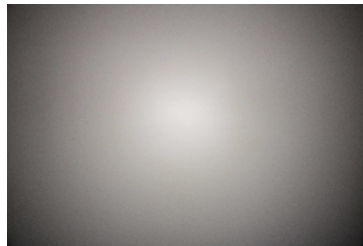
PHILIPS

LED Fortimo LED Line 1ft 650lm 3R HV4 & LV4
 FWHM / FWTM 58.0° / 108.0°
 Efficiency 93 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



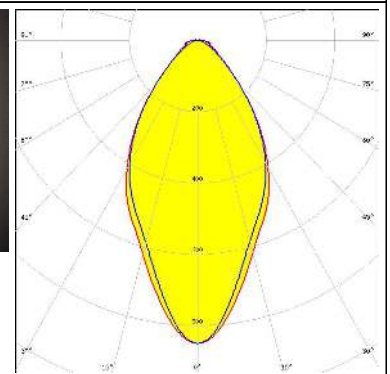
PHILIPS

LED Fortimo LED Line 1ft HF 3R HV5
 FWHM / FWTM 56.0° / 107.0°
 Efficiency 95 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



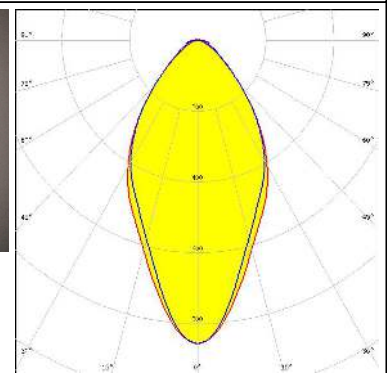
PHILIPS

LED Fortimo LED Line 1ft LF 3R HV5 & LV5
 FWHM / FWTM 57.0° / 107.0°
 Efficiency 95 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHILIPS

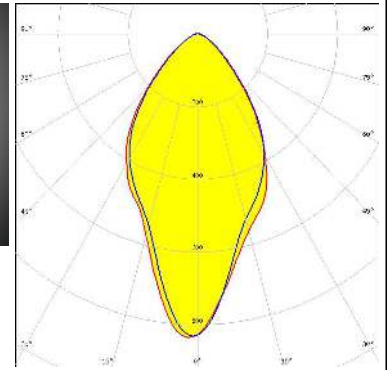
LED Fortimo LED Line 1ft MF 3R HV5 & LV5
 FWHM / FWTM 56.0° / 108.0°
 Efficiency 95 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (MEASURED):

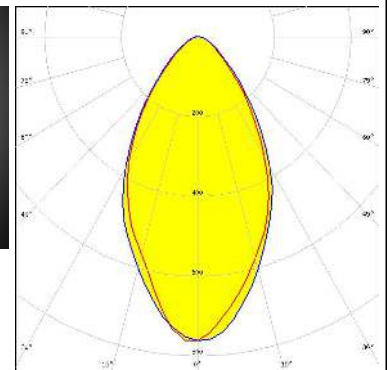
SAMSUNG

LED LM231 A/B
 FWHM / FWTM 56.0° / 107.0°
 Efficiency 89 %
 Peak intensity 0.9 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:



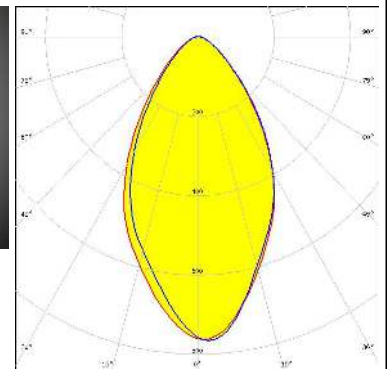
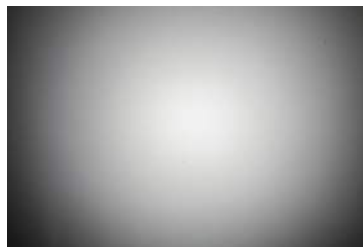
SAMSUNG

LED LM362A
 FWHM / FWTM 59.0° / 107.0°
 Efficiency 85 %
 Peak intensity 0.8 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:



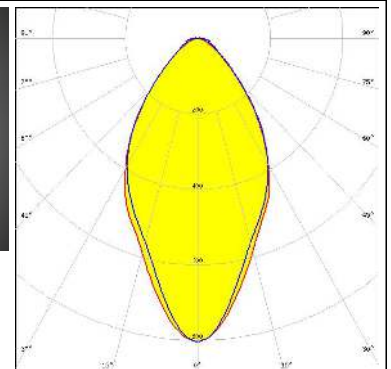
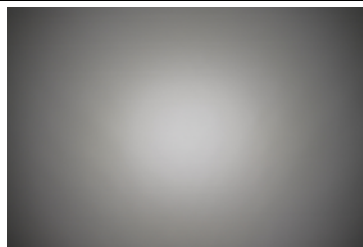
SAMSUNG

LED LM561B
 FWHM / FWTM 59.0° / 108.0°
 Efficiency 86 %
 Peak intensity 0.8 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:



SAMSUNG

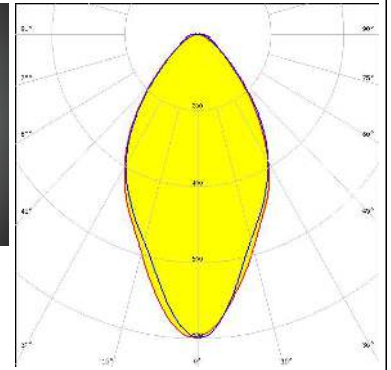
LED LM561B Plus
 FWHM / FWTM 59.0° / 109.0°
 Efficiency 93 %
 Peak intensity 0.8 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (MEASURED):

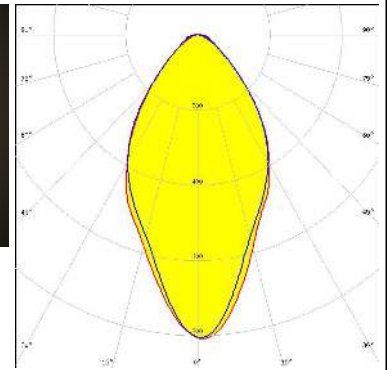
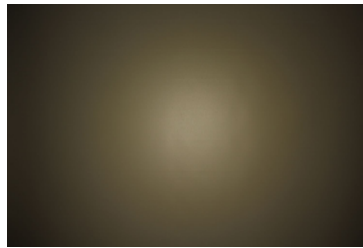
SAMSUNG

LED LM561C
 FWHM / FWTM 59.0° / 110.0°
 Efficiency 93 %
 Peak intensity 0.8 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:

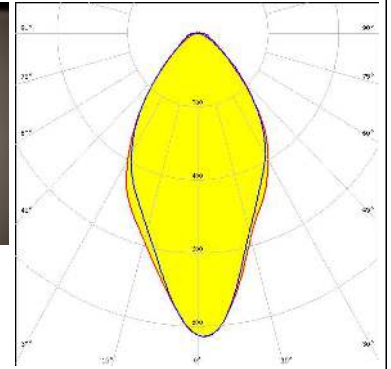


SAMSUNG

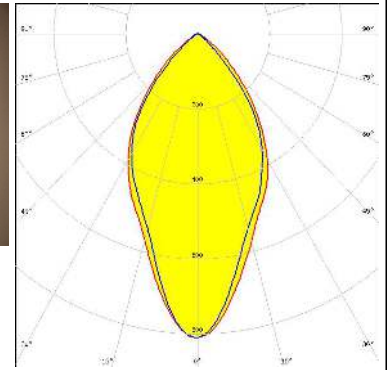
LED LT-R286A
 FWHM / FWTM 58.0° / 110.0°
 Efficiency 93 %
 Peak intensity 0.8 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:




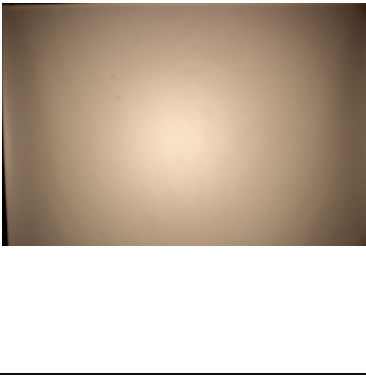
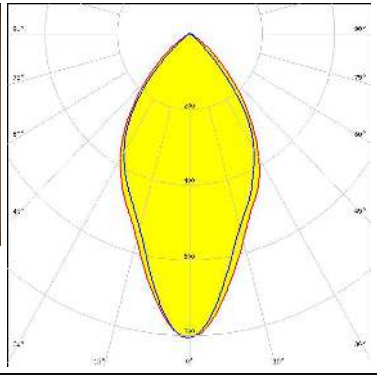

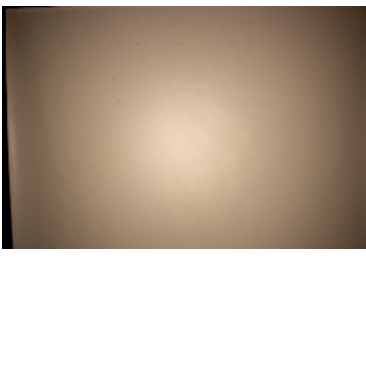
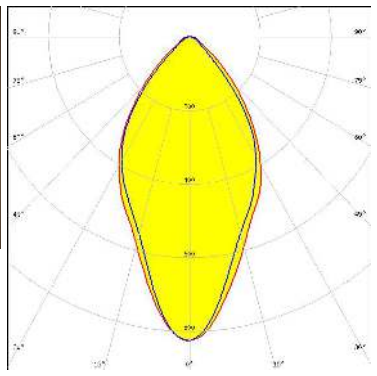

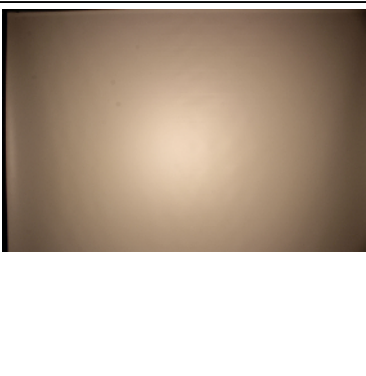
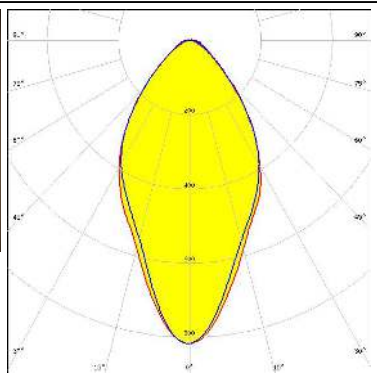

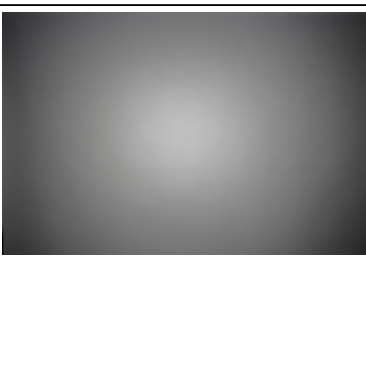
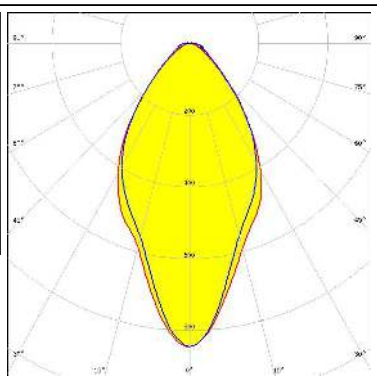
LED SEOUL 3030
 FWHM / FWTM 56.0° / 108.0°
 Efficiency 92 %
 Peak intensity 0.8 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:



LED SEOUL 5630C
 FWHM / FWTM 57.0 + 53.0° / 104.0 + 95.0°
 Efficiency 80 %
 Peak intensity 0.8 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 C14453_FLORENCE-3R-SHD-GR



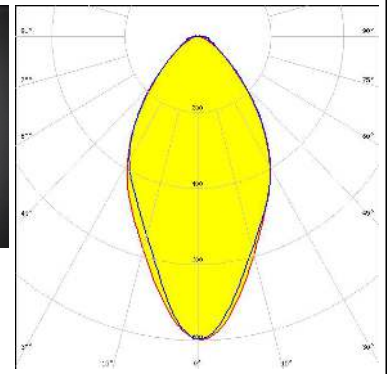
OPTICAL RESULTS (MEASURED):

<p> SEOUL SEMICONDUCTOR</p> <p>LED: SEOUL 5630C</p> <p>FWHM / FWTM: 57.0 + 52.0° / 103.0 + 94.0°</p> <p>Efficiency: 78 %</p> <p>Peak intensity: 0.8 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components: C14592_FLORENCE-3R-SHD-BLK</p>		
<p> SEOUL SEMICONDUCTOR</p> <p>LED: SEOUL 5630C</p> <p>FWHM / FWTM: 58.0 + 54.0° / 106.0 + 97.0°</p> <p>Efficiency: 88 %</p> <p>Peak intensity: 0.8 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components: C14646_FLORENCE-3R-SHD-WHT</p>		
<p> SEOUL SEMICONDUCTOR</p> <p>LED: SEOUL 5630C</p> <p>FWHM / FWTM: 57.0° / 109.0°</p> <p>Efficiency: 92 %</p> <p>Peak intensity: 0.8 cd/lm</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: 59.0 + 55.0° / 106.0 + 108.0°</p> <p>Efficiency: 93 %</p> <p>Peak intensity: 0.9 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>		

OPTICAL RESULTS (MEASURED):

TRIDONIC

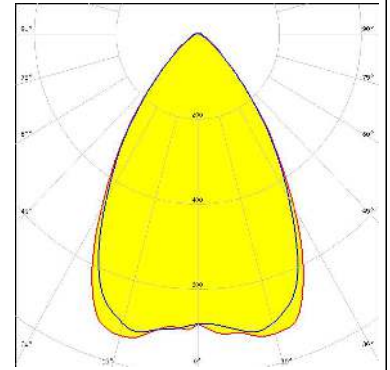
LED LLE G2 55x280mm 2000lm
FWHM / FWTM 58.0° / 111.0°
Efficiency 93 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OPTICAL RESULTS (SIMULATED):

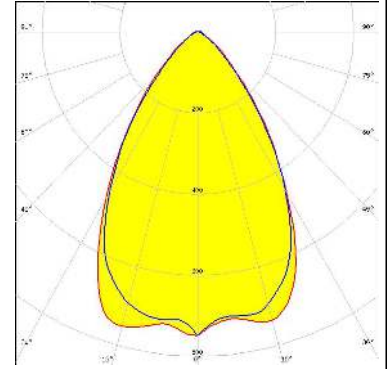
CREE LED

LED J Series 5050 Round LES
 FWHM / FWTM 68.0° / 101.0°
 Efficiency 93 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



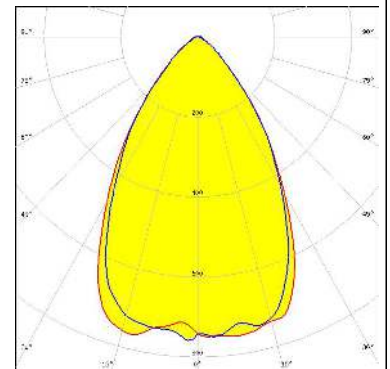
CREE LED

LED J Series 5050C 6V E Class
 FWHM / FWTM 66.0° / 102.0°
 Efficiency 93 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



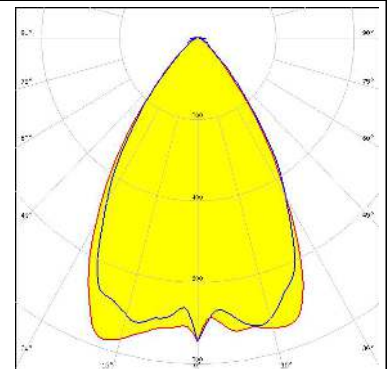
LUMILEDS

LED LUXEON 5050 Round LES
 FWHM / FWTM 65.0° / 101.0°
 Efficiency 94 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

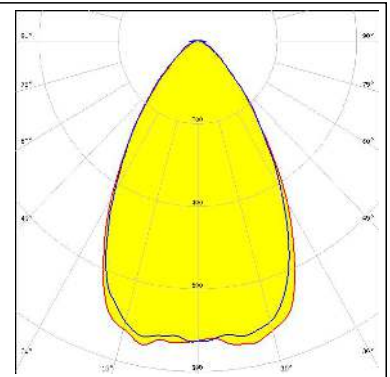
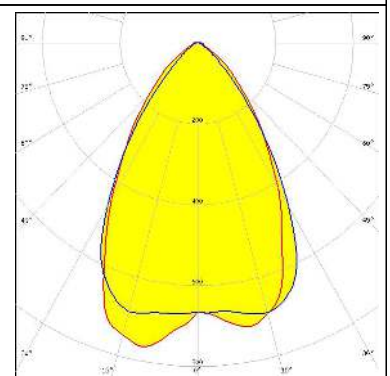
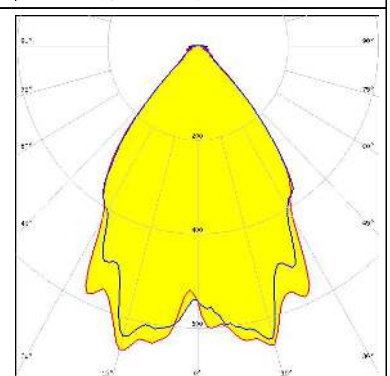
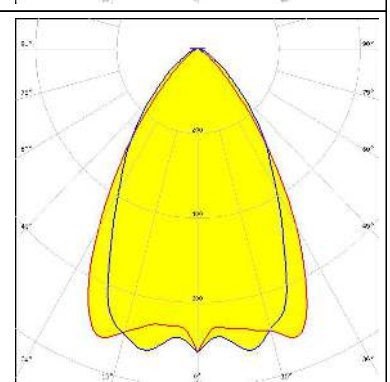


NICHIA

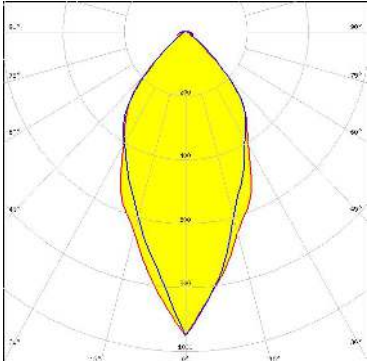
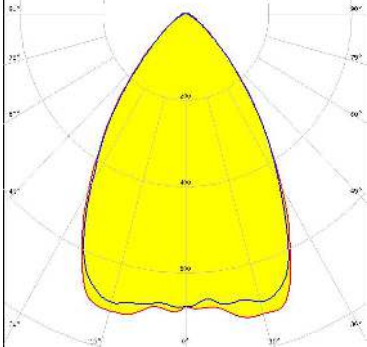
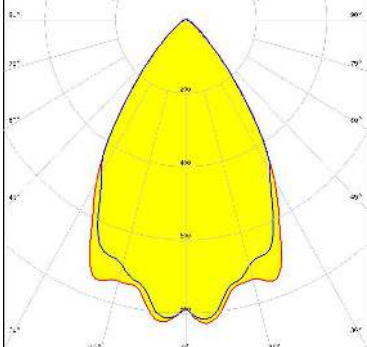
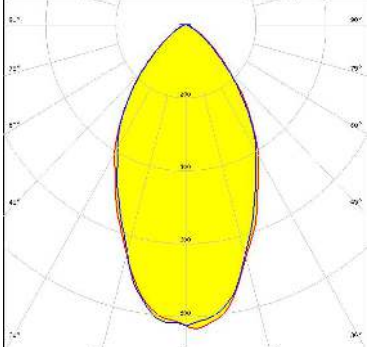
LED NF2x757G
 FWHM / FWTM 62.0° / 94.0°
 Efficiency 91 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (SIMULATED):

<p>NICHIA</p> <p>LED NFMW48xA FWHM / FWTM 64.0° / 105.0° Efficiency 94 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>NICHIA</p> <p>LED NFSx757G FWHM / FWTM 63.0 + 68.0° / 110.0 + 100.0° Efficiency 94 % Peak intensity 0.8 cd/lm LEDs/each optic 2 Light colour White Required components:</p>	
<p>NICHIA</p> <p>LED NVSxE21A FWHM / FWTM 70.0° / 94.0° Efficiency 87 % Peak intensity 0.7 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 68.0 + 57.0° / 100.0 + 97.0° Efficiency 92 % Peak intensity 0.7 cd/lm LEDs/each optic 2 Light colour White Required components:</p>	

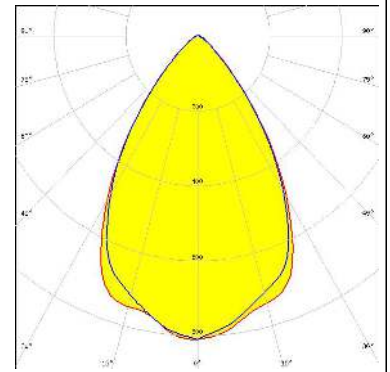
OPTICAL RESULTS (SIMULATED):

<p>OSRAM Opto Semiconductors</p> <p>LED Duris E 2835 FWHM / FWTM 50.0° / 99.0° Efficiency 92 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED Duris S8 FWHM / FWTM 70.0° / 106.0° Efficiency 94 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED OSCONIQ C 2424 FWHM / FWTM 66.0° / 96.0° Efficiency 94 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>SAMSUNG</p> <p>LED LH351D FWHM / FWTM 59.0° / 106.0° Efficiency 94 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	

OPTICAL RESULTS (SIMULATED):

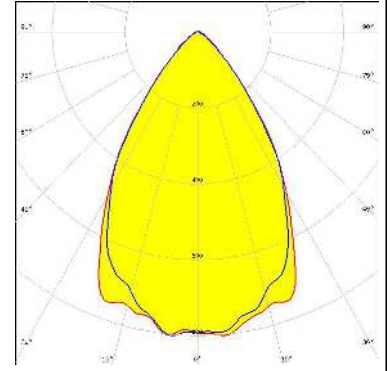
SAMSUNG

LED LM28xB Series
 FWHM / FWTM 66.0° / 97.0°
 Efficiency 94 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



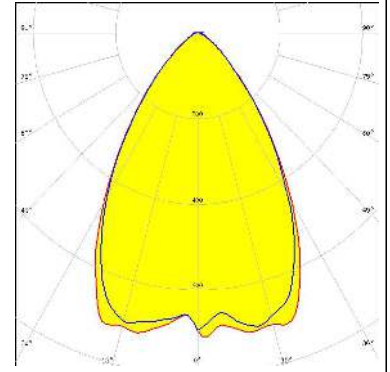
SAMSUNG

LED LM301B
 FWHM / FWTM 66.0° / 98.0°
 Efficiency 94 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



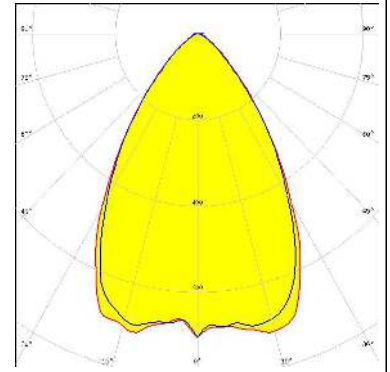
SAMSUNG

LED LM301B
 FWHM / FWTM 68.0° / 106.0°
 Efficiency 93 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 2
 Light colour White
 Required components:



SAMSUNG

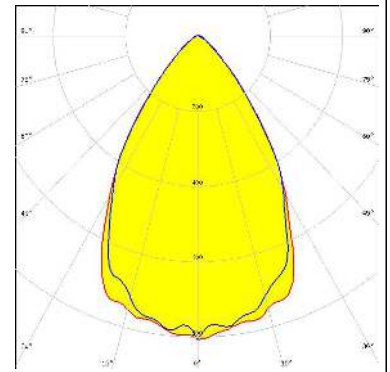
LED LM302Z plus
 FWHM / FWTM 68.0° / 105.0°
 Efficiency 93 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 2
 Light colour White
 Required components:




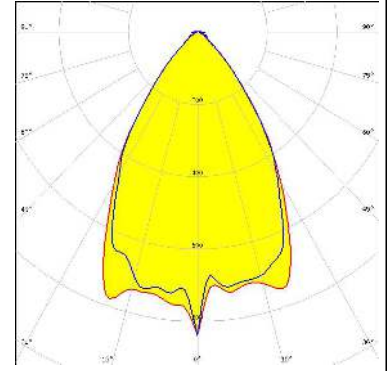
OPTICAL RESULTS (SIMULATED):


SAMSUNG

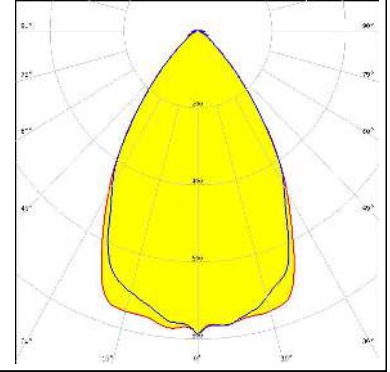
LED LM302Z plus
 FWHM / FWTM 66.0° / 98.0°
 Efficiency 94 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:




 SEOUL SEMICONDUCTOR
 LED SEOUL 5630D
 FWHM / FWTM 65.0° / 95.0°
 Efficiency 91 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



 SEOUL SEMICONDUCTOR
 LED SEOUL DC 3030C
 FWHM / FWTM 66.0° / 98.0°
 Efficiency 95 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

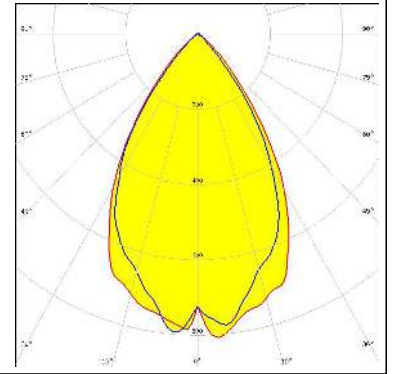


 SEOUL SEMICONDUCTOR
 LED Z8Y22
 FWHM / FWTM 62.0° / 100.0°
 Efficiency 93 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

OPTICAL RESULTS (SIMULATED):

TRIDONIC

LED	LLE G2 55x280mm 2000lm
FWHM / FWTM	65.0 + 62.0° / 95.0 + 89.0°
Efficiency	84 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	C14592_FLORENCE-3R-SHD-BLK



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.

LEDiL Oy assumes neither warranty, nor guarantee nor any other liability of any kind for the contents and correctness of the provided data. The provided data has been generated with highest diligence but the provided data may in reality not represent the complete possible variation range of all intrinsic parameters. Therefore, in certain cases a deviation from the provided data could occur.

LEDiL Oy reserves the right to undertake technical changes of its products without further notification which could lead to changes in the provided data. LEDiL Oy assumes no liability of any kind for the possible deviation from any provided data or any other damage resulting from the usage of the provided data.

The user agrees to this disclaimer and user agreement with the download or usage of the provided files.

LEDiL Oy

Joensuunkatu 13
FI-24240 SALO
Finland

LEDiL Inc.

228 West Page Street
Suite D
Sycamore IL 60178
USA

Ledil Optics Technology (Shenzhen) Co., Ltd.

405 , Block B
Casic Motor Building
Shenzhen 518057
P.R.CHINA

Local sales and technical support

[www.ledil.com/
where_to_buy](http://www.ledil.com/where_to_buy)

Shipping locations

Salo, Finland
Hong Kong, China

Distribution Partners

[www.ledil.com/
where_to_buy](http://www.ledil.com/where_to_buy)