

## FLORENCE-Z90

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

### TECHNICAL SPECIFICATIONS:

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

### MATERIAL SPECIFICATIONS:

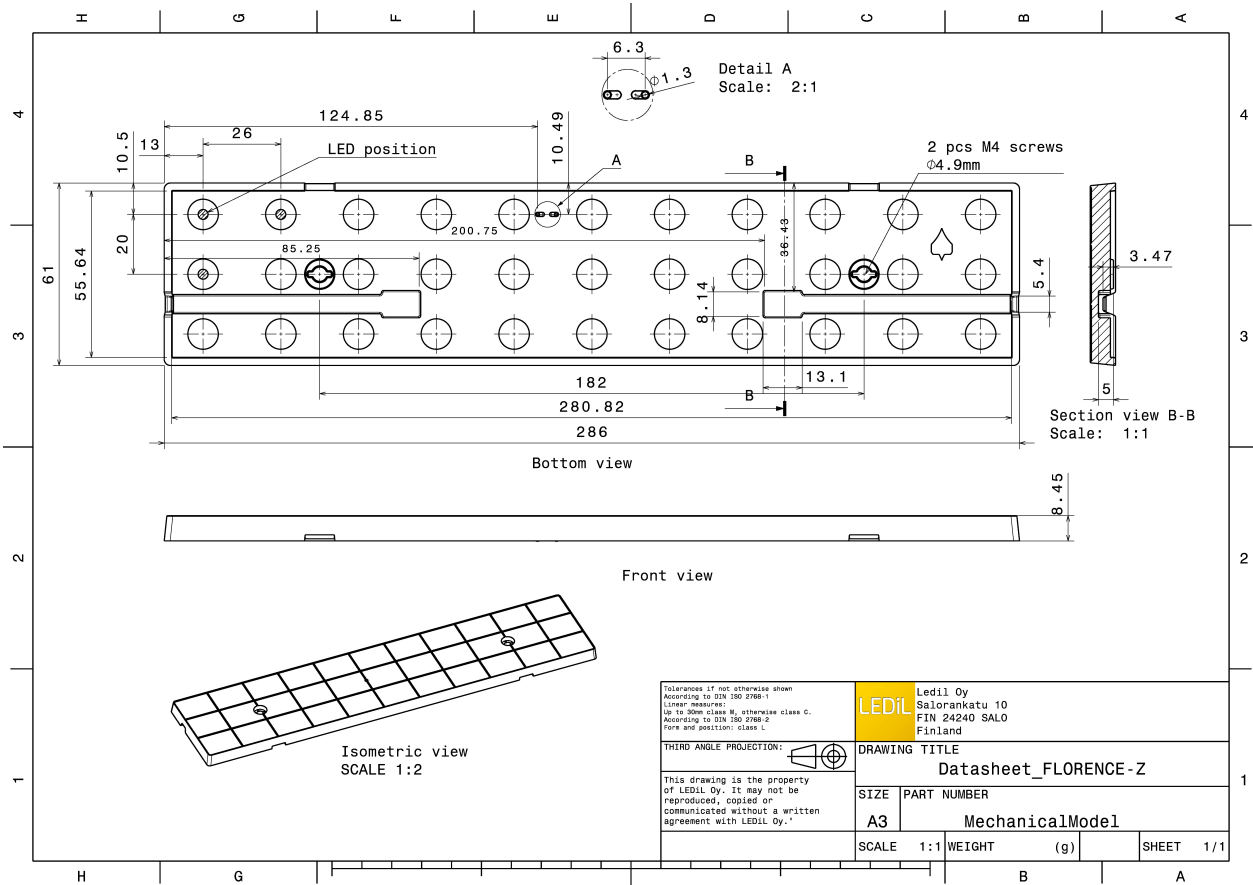
Component	Type
FLORENCE-Z90	Linear lens



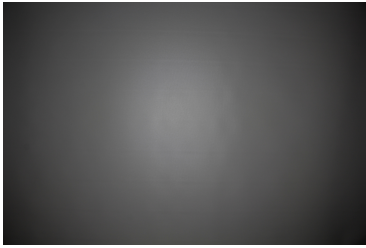
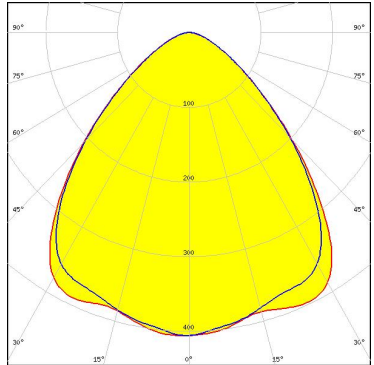
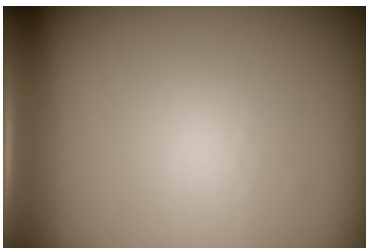
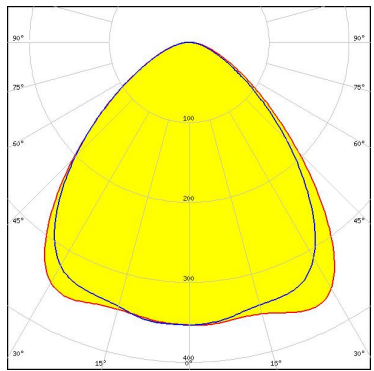
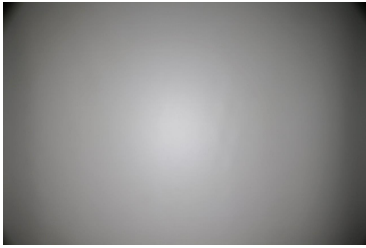
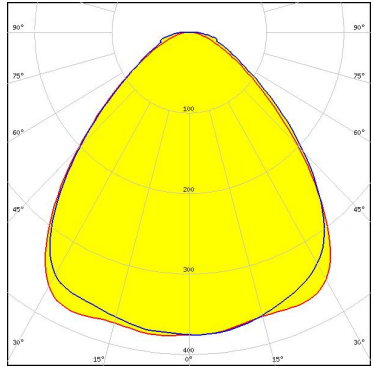
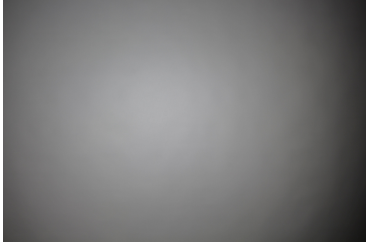
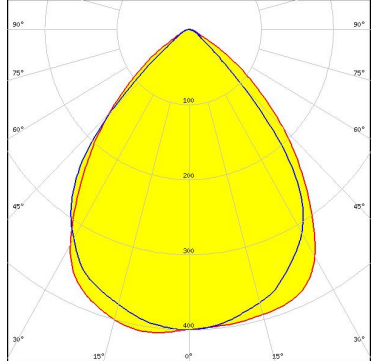
Material	Colour	Finish
PMMA	clear	

### 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



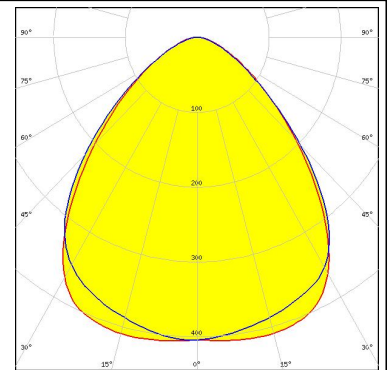
#### PHOTOMETRIC DATA (MEASURED):

<p><b>COMET ELECTRONICS</b></p> <p>LED TRIDINO R3 8x0 1100 1ft HV            FWHM 92.0°            Efficiency 87 %            Peak intensity 0.410 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>CREE</b></p> <p>LED XH-B/G            FWHM 95.0°            Efficiency 82 %            Peak intensity 0.370 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>LG Innotek</b></p> <p>LED LG 5630            FWHM 93.0°            Efficiency 87 %            Peak intensity 0.390 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>LG Innotek</b></p> <p>LED LG 6030            FWHM 83.0°            Efficiency 70 %            Peak intensity 0.400 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C14592_FLORENCE-3R-SHD-BLK</p>		

#### PHOTOMETRIC DATA (MEASURED):

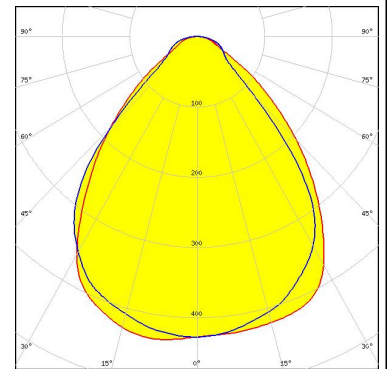
##### LG Innotek

LED LG 6030  
 FWHM 92.0°  
 Efficiency 88 %  
 Peak intensity 0.410 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



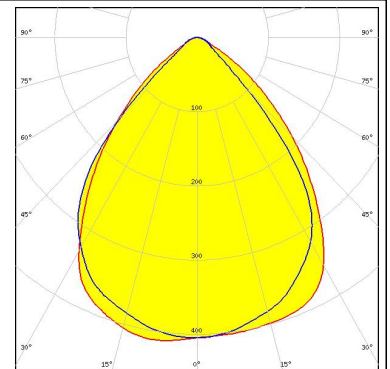
##### LG Innotek

LED LG 6030  
 FWHM 85.0°  
 Efficiency 84 %  
 Peak intensity 0.440 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14646\_FLORENCE-3R-SHD-WHT



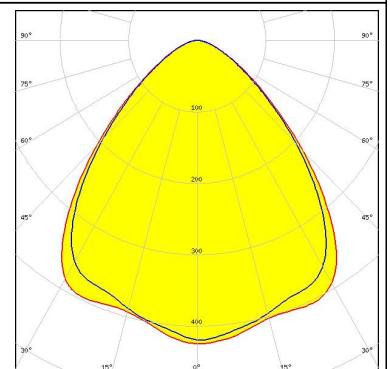
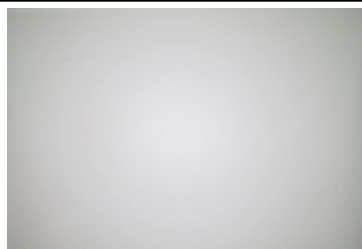
##### LG Innotek

LED LG 6030  
 FWHM 83.0°  
 Efficiency 72 %  
 Peak intensity 0.400 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14453\_FLORENCE-3R-SHD-GR



##### LUMILEDS

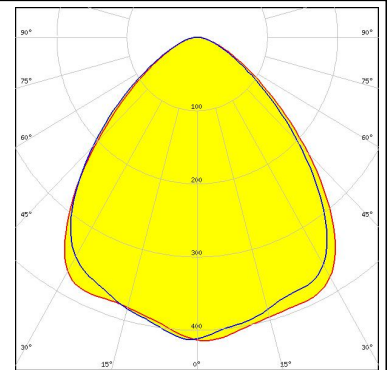
LED LUXEON 3030 2D (Round LES)  
 FWHM 91.0°  
 Efficiency 87 %  
 Peak intensity 0.420 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHOTOMETRIC DATA (MEASURED):

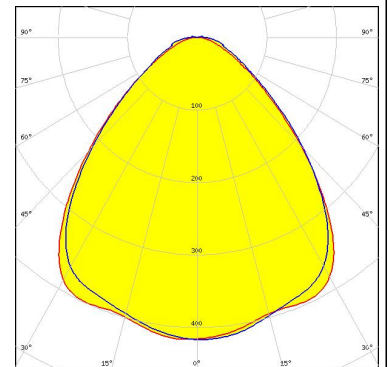
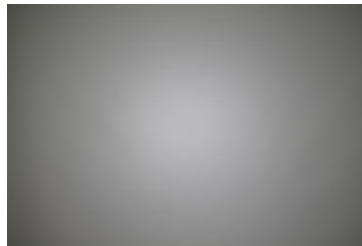
##### LUMILEDS

LED LUXEON 3535 2D  
 FWHM 92.0°  
 Efficiency 87 %  
 Peak intensity 0.410 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



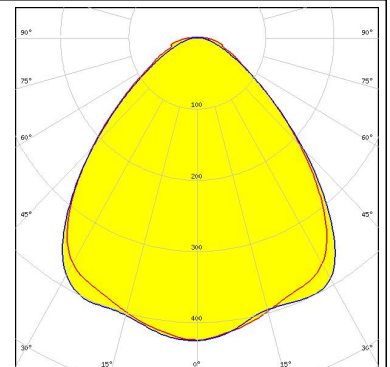
##### LUMILEDS

LED LUXEON 3535L HE  
 FWHM 92.0°  
 Efficiency 93 %  
 Peak intensity 0.420 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



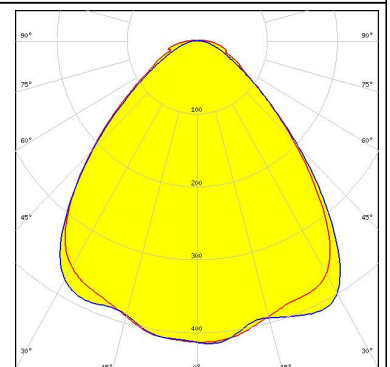
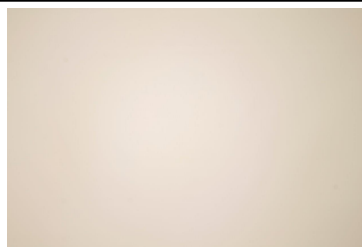
##### LUMILEDS

LED LUXEON XR-3535L (L202 - xxxx033C30001)  
 FWHM 91.0°  
 Efficiency 93 %  
 Peak intensity 0.430 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



##### LUMINUS

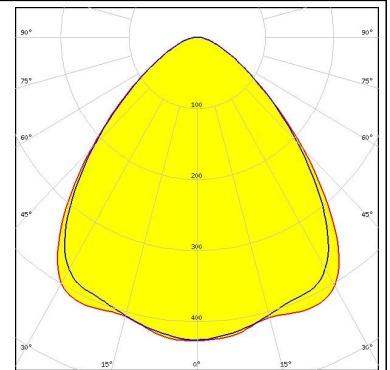
LED MP-2016  
 FWHM 90.0°  
 Efficiency 91 %  
 Peak intensity 0.420 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



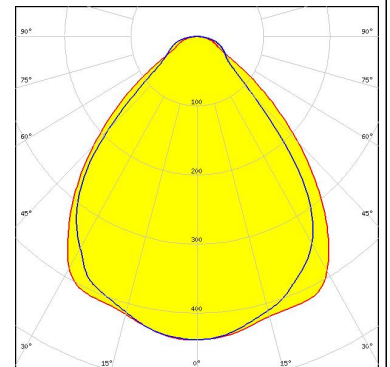
#### PHOTOMETRIC DATA (MEASURED):



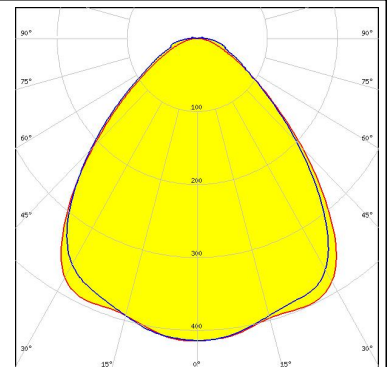
LED NF2x757D  
 FWHM 92.0°  
 Efficiency 90 %  
 Peak intensity 0.430 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



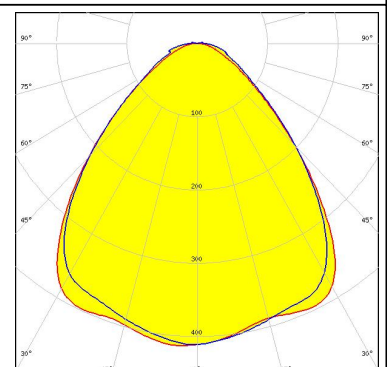
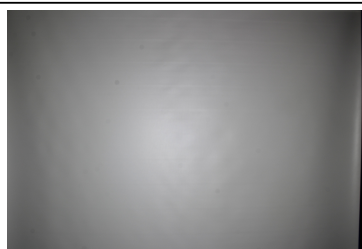
LED NFSW757H  
 FWHM 90.0 + 83.0°  
 Efficiency 87 %  
 Peak intensity 0.439 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14646\_FLORENCE-3R-SHD-WHT



LED NFSW757H  
 FWHM 91.0 + 90.0°  
 Efficiency 92 %  
 Peak intensity 0.415 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



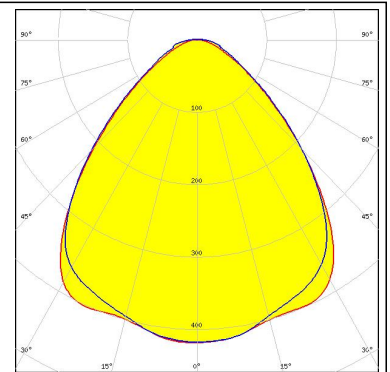
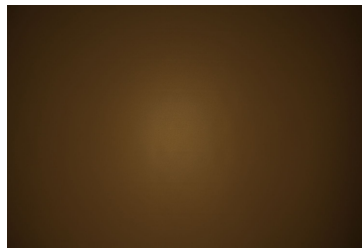
LED PL-BAR-G3 1100 280x55  
 FWHM 90.0°  
 Efficiency 92 %  
 Peak intensity 0.410 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



**PHOTOMETRIC DATA (MEASURED):**

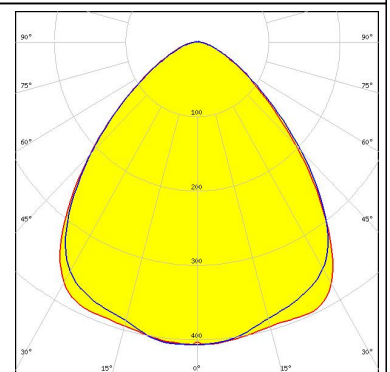
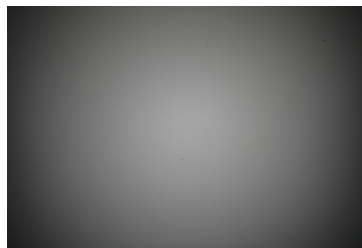
**OSRAM**

LED PLG2-BAR-1100-xxx-280x55-DC  
 FWHM 92.0°  
 Efficiency 92 %  
 Peak intensity 0.420 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



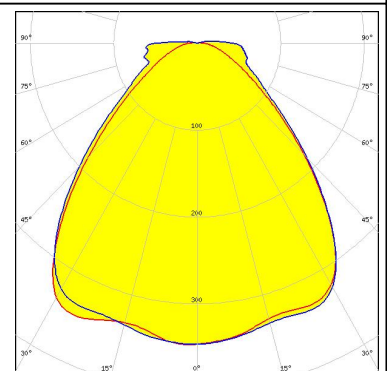
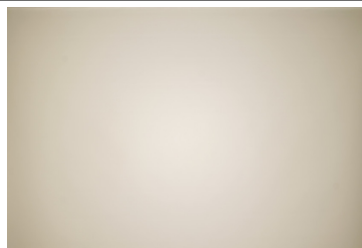
**OSRAM**  
Opto Semiconductors

LED Duris E5  
 FWHM 92.0°  
 Efficiency 88 %  
 Peak intensity 0.400 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



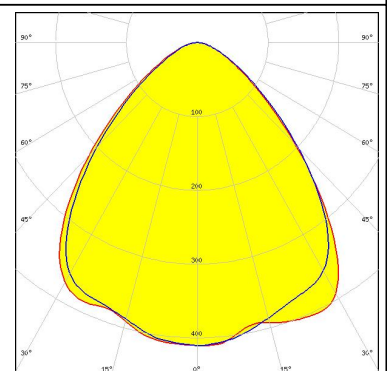
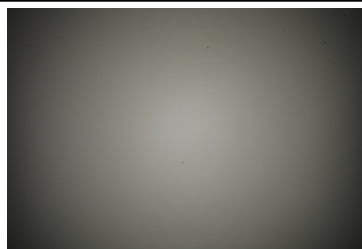
**OSRAM**  
Opto Semiconductors

LED Duris S2  
 FWHM 95.0°  
 Efficiency 90 %  
 Peak intensity 0.350 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



**OSRAM**  
Opto Semiconductors

LED Duris S5 (Single chip)  
 FWHM 91.0°  
 Efficiency 88 %  
 Peak intensity 0.410 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

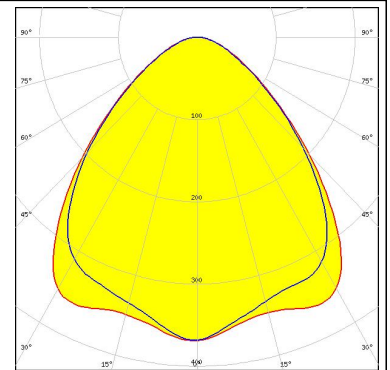
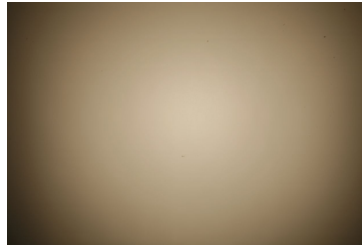


#### PHOTOMETRIC DATA (MEASURED):

#### OSRAM

Opto Semiconductors

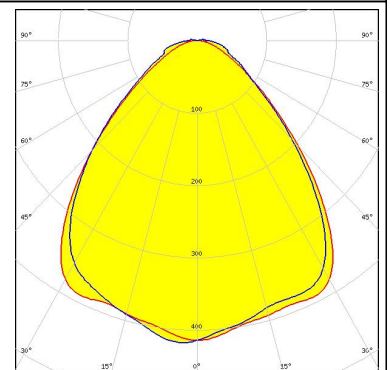
LED OSCONIQ P 2226  
 FWHM 94.0°  
 Efficiency 83 %  
 Peak intensity 0.370 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OSRAM

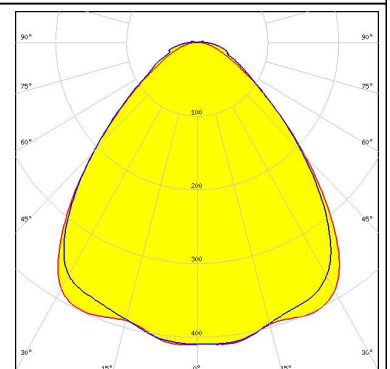
Opto Semiconductors

LED OSLON Square CSSRM2/CSSRM3  
 FWHM 91.0°  
 Efficiency 93 %  
 Peak intensity 0.420 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



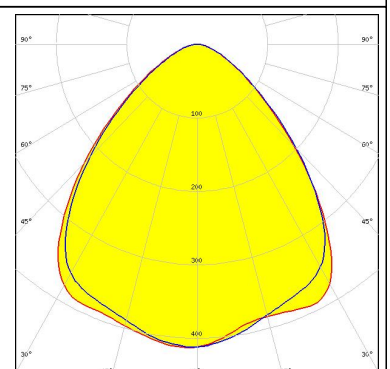
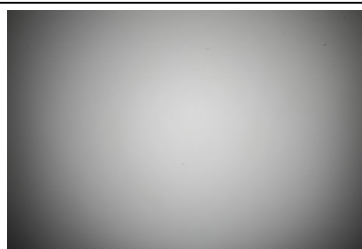
#### PHILIPS

LED Fortimo LED Line 1ft 650lm 3R HV4 & LV4  
 FWHM 90.0°  
 Efficiency 93 %  
 Peak intensity 0.410 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### SAMSUNG

LED LM231 A/B  
 FWHM 91.0°  
 Efficiency 88 %  
 Peak intensity 0.414 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

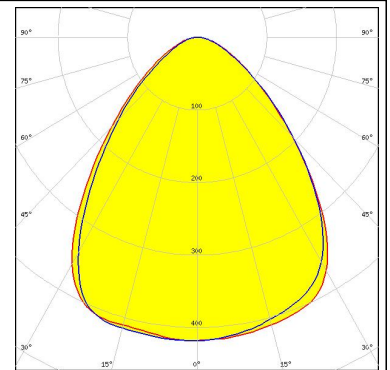




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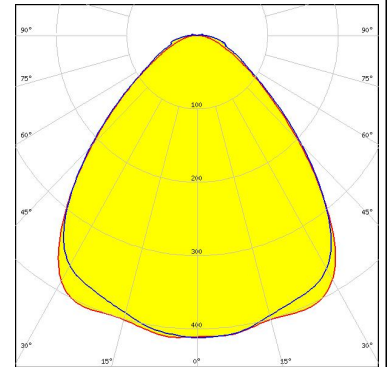
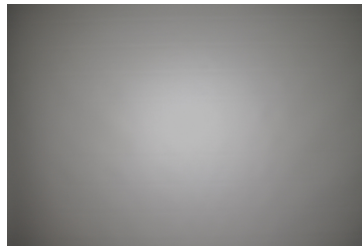
#### SAMSUNG

LED LM561B  
 FWHM 86.0°  
 Efficiency 85 %  
 Peak intensity 0.420 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



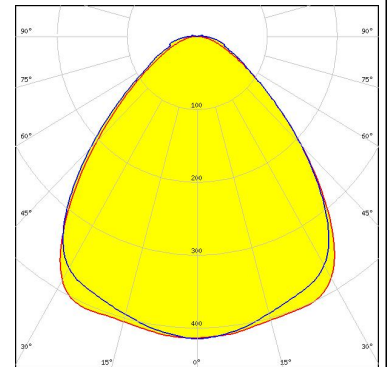
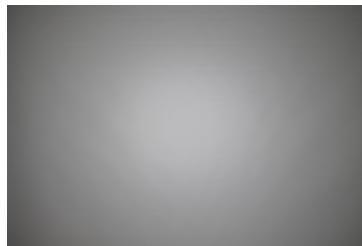
#### SAMSUNG

LED LM561B Plus  
 FWHM 92.0°  
 Efficiency 93 %  
 Peak intensity 0.410 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



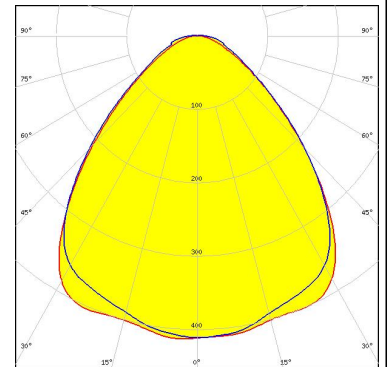
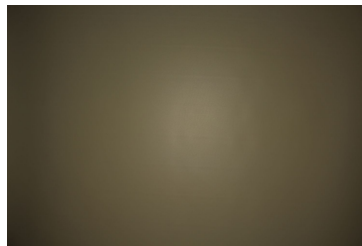
#### SAMSUNG

LED LM561C  
 FWHM 92.0°  
 Efficiency 93 %  
 Peak intensity 0.420 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



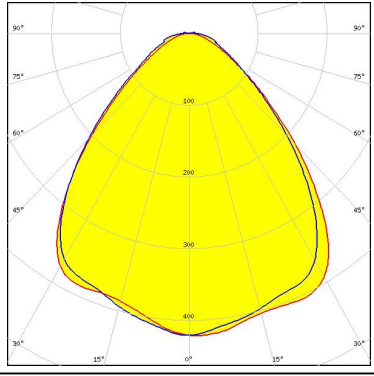

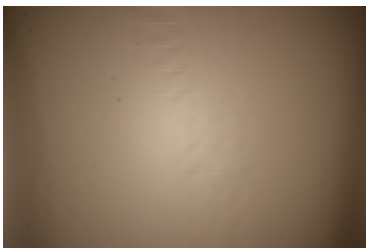
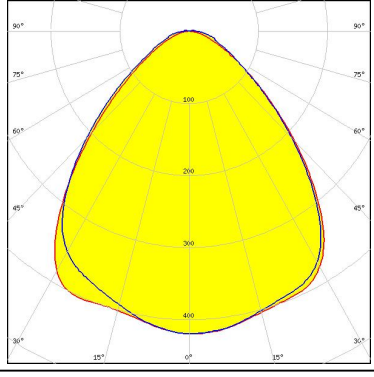

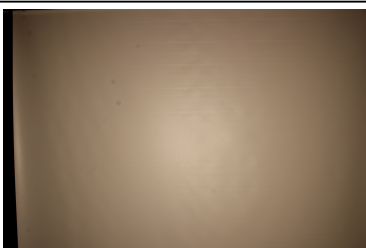
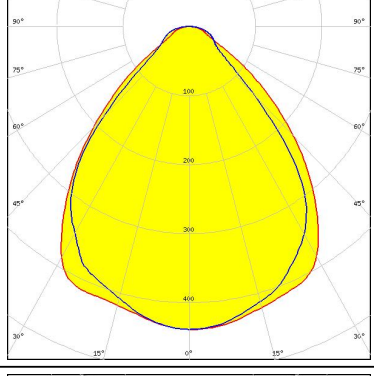

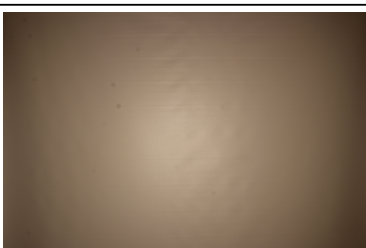
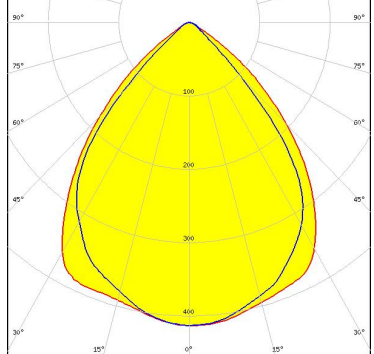


#### SAMSUNG


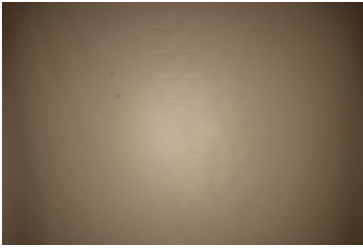
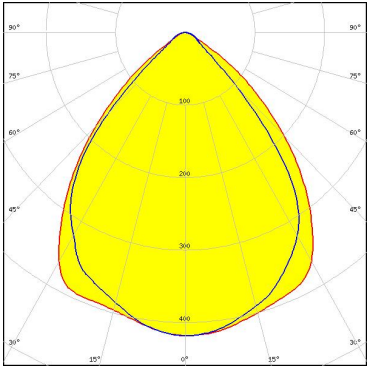


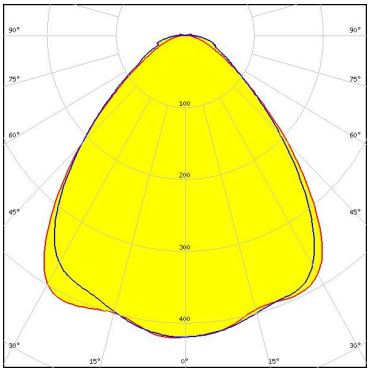

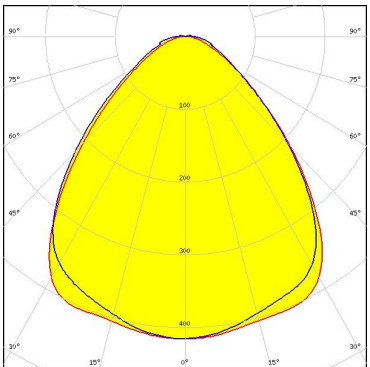
LED LT-R286A  
 FWHM 93.0°  
 Efficiency 93 %  
 Peak intensity 0.410 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHOTOMETRIC DATA (MEASURED):

<p> SEOL SEMICONDUCTOR</p> <p>LED: SEOUL 3030            FWHM: 91.0°            Efficiency: 91 %            Peak intensity: 0.420 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>		
<p> SEOL SEMICONDUCTOR</p> <p>LED: SEOUL 5630C            FWHM: 90.0°            Efficiency: 91 %            Peak intensity: 0.420 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>		
<p> SEOL SEMICONDUCTOR</p> <p>LED: SEOUL 5630C            FWHM: 89.0 + 83.0°            Efficiency: 86 %            Peak intensity: 0.440 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:            C14646_FLORENCE-3R-SHD-WHT</p>		
<p> SEOL SEMICONDUCTOR</p> <p>LED: SEOUL 5630C            FWHM: 87.0 + 81.0°            Efficiency: 71 %            Peak intensity: 0.410 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:            C14592_FLORENCE-3R-SHD-BLK</p>		

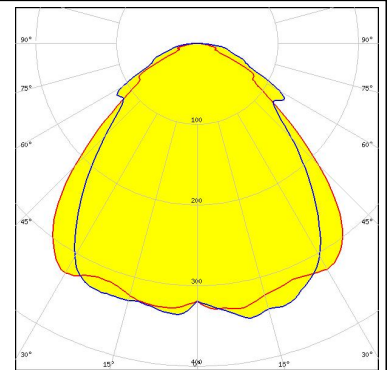
**PHOTOMETRIC DATA (MEASURED):**

<p> SEOUL SEMICONDUCTOR</p> <p>LED                SEOUL 5630C FWHM            87.0 + 81.0° Efficiency        74 % Peak intensity   0.420 cd/lm LEDs/each optic 1 Light colour     White Required components:                     C14453_FLORENCE-3R-SHD-GR</p>		
<p> SEOUL SEMICONDUCTOR</p> <p>LED                SEOUL DC 3030 FWHM            90.0° Efficiency        93 % Peak intensity   0.420 cd/lm LEDs/each optic 1 Light colour     White Required components:</p>		
<p><b>TRIDONIC</b></p> <p>LED                LLE G2 55x280mm 2000lm FWHM            91.0° Efficiency        93 % Peak intensity   0.420 cd/lm LEDs/each optic 1 Light colour     White Required components:</p>		

#### PHOTOMETRIC DATA (SIMULATED):

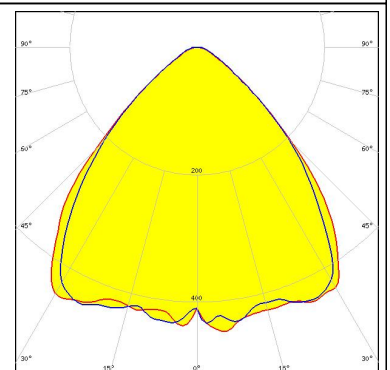
##### **LG Innotek**

LED LG 7030  
FWHM 91.0°  
Efficiency %  
Peak intensity 0.320 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



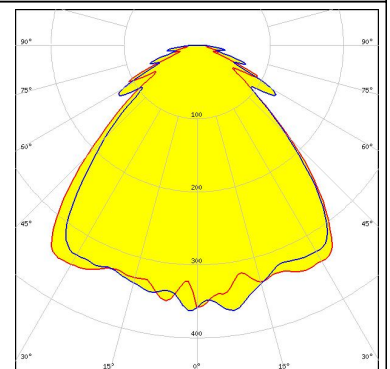
##### **LUMILEDS**

LED LUXEON 5050 Round LES  
FWHM 90.0°  
Efficiency 91 %  
Peak intensity 0.460 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



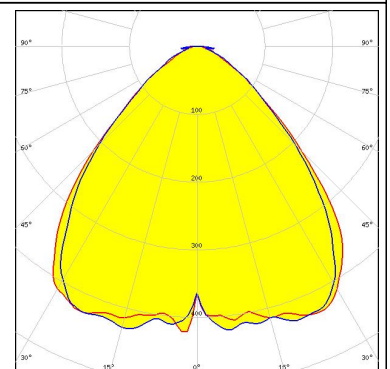
##### **NICHIA**

LED NF2x757G  
FWHM 90.0°  
Efficiency 80 %  
Peak intensity 0.370 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



##### **NICHIA**

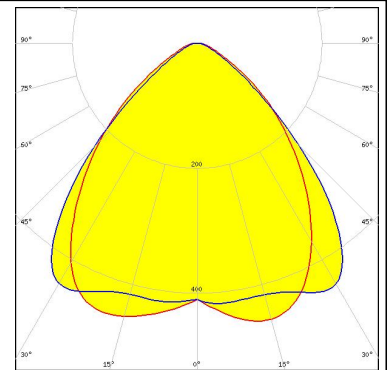
LED NFMW48xA  
FWHM 89.0°  
Efficiency 92 %  
Peak intensity 0.440 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



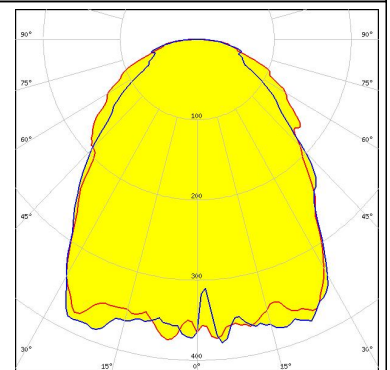
#### PHOTOMETRIC DATA (SIMULATED):



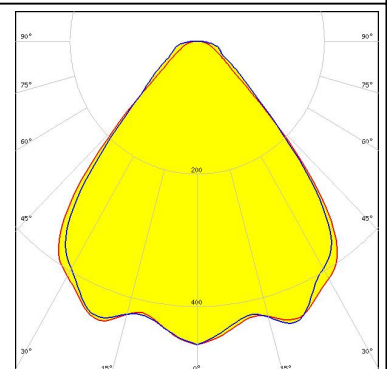
**LED** NFSx757G  
**FWHM** 86.0 + 90.0°  
**Efficiency** 92 %  
**Peak intensity** 0.458 cd/lm  
**LEDs/each optic** 2  
**Light colour** White  
**Required components:**



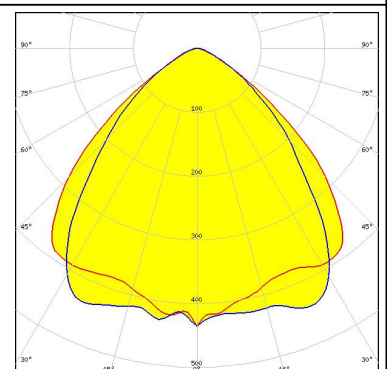
**LED** NVSxE21A  
**FWHM** 90.0°  
**Efficiency** 94 %  
**Peak intensity** 0.390 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**



**LED** Duris E 2835  
**FWHM** 85.0°  
**Efficiency** 87 %  
**Peak intensity** 0.460 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**



**LED** Duris E 2835  
**FWHM** 86.0 + 87.0°  
**Efficiency** 92 %  
**Peak intensity** 0.400 cd/lm  
**LEDs/each optic** 2  
**Light colour** White  
**Required components:**

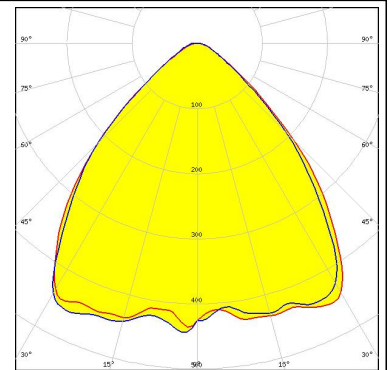


#### PHOTOMETRIC DATA (SIMULATED):

#### OSRAM

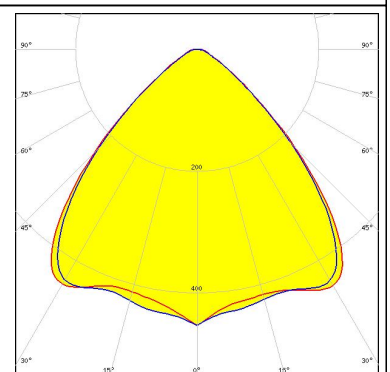
Opto Semiconductors

LED Duris S8  
FWHM 83.0°  
Efficiency 91 %  
Peak intensity 0.470 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



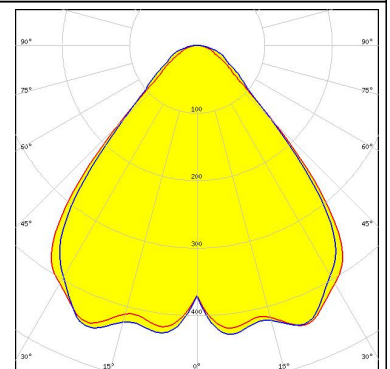
#### SAMSUNG

LED LM28xB Series  
FWHM 90.0°  
Efficiency 93 %  
Peak intensity 0.450 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



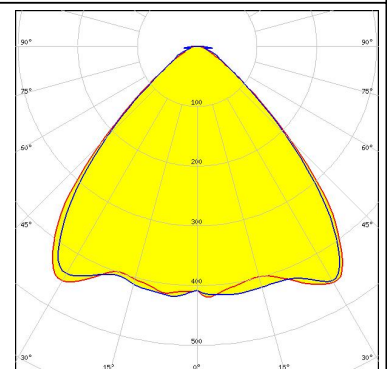
SEOUL SEMICONDUCTOR

LED SEOUL 5630D  
FWHM 83.0°  
Efficiency 84 %  
Peak intensity 0.450 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



SEOUL SEMICONDUCTOR

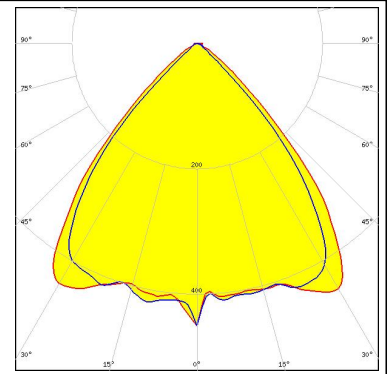
LED SEOUL DC 3030C  
FWHM 89.0°  
Efficiency 94 %  
Peak intensity 0.457 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



## PHOTOMETRIC DATA (SIMULATED):

### TRIDONIC

LED LLE G2 55x280mm 2000lm  
FWHM 85.0 + 81.0°  
Efficiency 77 %  
Peak intensity 0.456 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.

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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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Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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Email: [org@lifeelectronics.ru](mailto:org@lifeelectronics.ru)