

## FLORENTINA-HLD-WW

~45° wide beam

### TECHNICAL SPECIFICATIONS:

Dimensions	285.6 x 19.5 mm
Height	9.5 mm
Fastening	screw
ROHS compliant	yes ⓘ

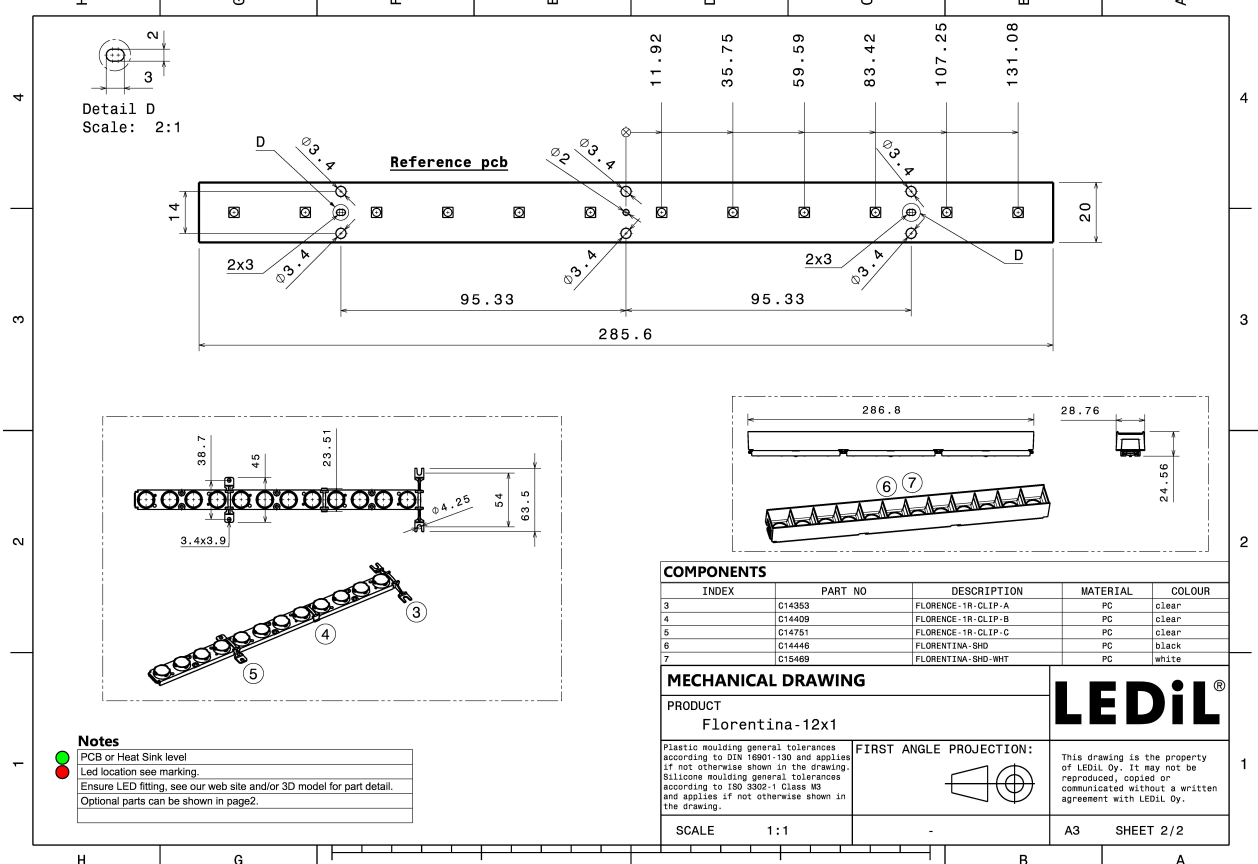
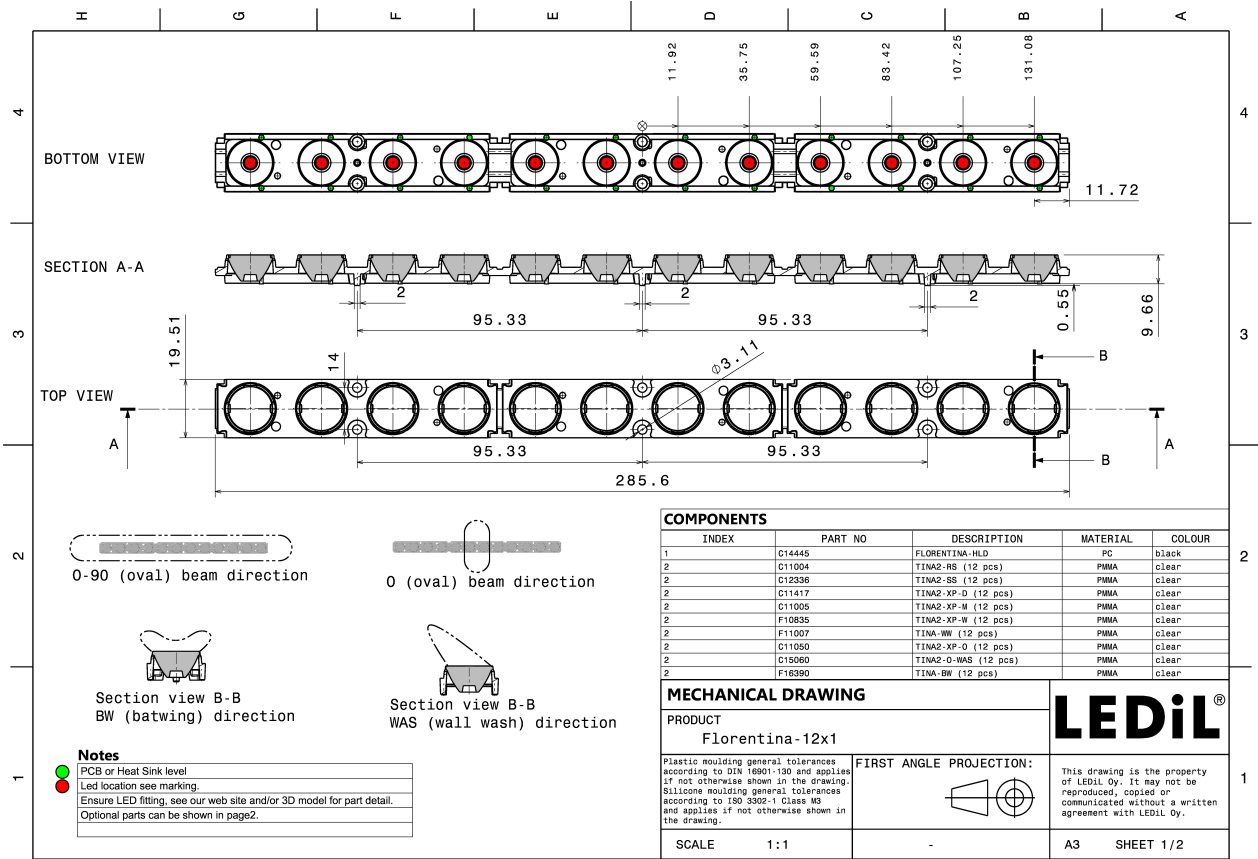
### MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
TINA-WW-XP	Single lens	PMMA	clear	
FLORENTINA-HLD	Holder	PC	black	



### ORDERING INFORMATION:

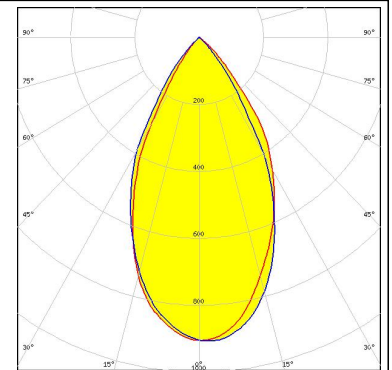
Component		Qty in box	MOQ	MPQ	Box weight (kg)
FP14998_FLORENTINA-HLD-WW	Single lens	160	32	16	5.2
» Box size: 398 x 298 x 140 mm					



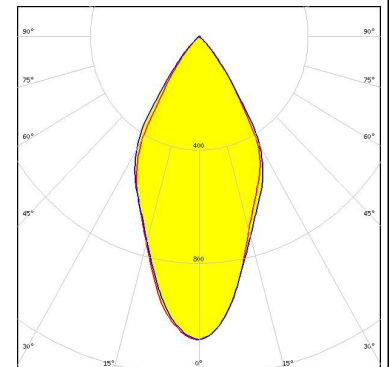
#### PHOTOMETRIC DATA (MEASURED):



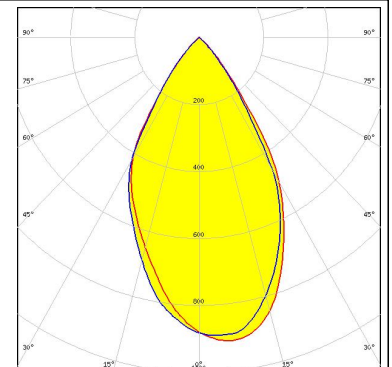
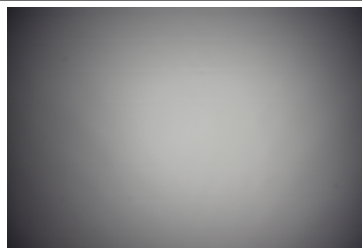
**LED** QUICK FLUX LED FL-XG 1x12 xxx  
**FWHM** 56.0°  
**Efficiency** 75 %  
**Peak intensity** 0.9 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**  
 C14446\_FLORENTINA-SHD



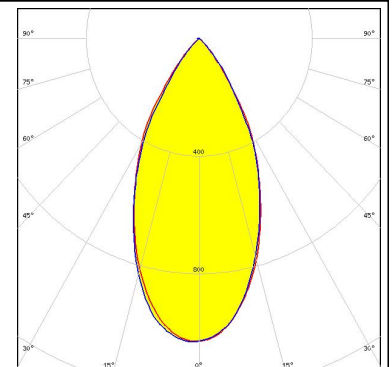
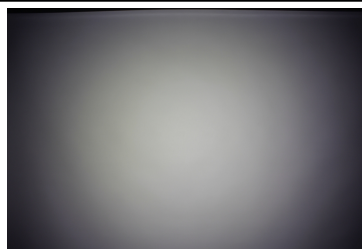
**LED** XP-E2  
**FWHM** 52.0°  
**Efficiency** 77 %  
**Peak intensity** 1.1 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**  
 C14446\_FLORENTINA-SHD



**LED** XP-G2  
**FWHM** 59.0°  
**Efficiency** 78 %  
**Peak intensity** 0.9 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**  
 C14446\_FLORENTINA-SHD



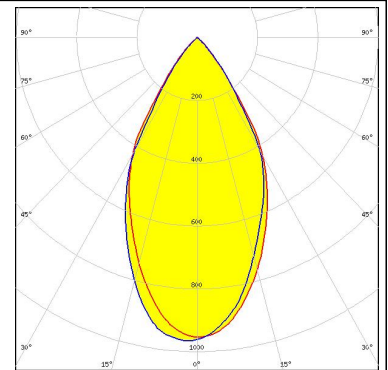
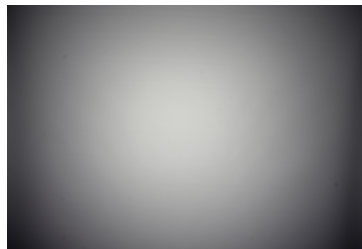
**LED** XP-G3  
**FWHM** 50.0°  
**Efficiency** 76 %  
**Peak intensity** 1 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**  
 C14446\_FLORENTINA-SHD



#### PHOTOMETRIC DATA (MEASURED):

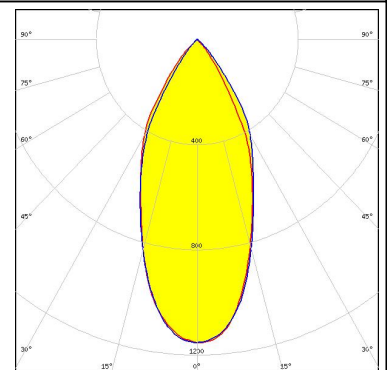
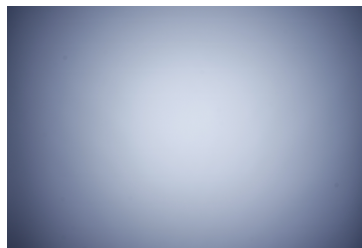
##### LG Innotek

LED H35C1 (LEMWA33)  
 FWHM 56.0°  
 Efficiency 77 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14446\_FLORENTINA-SHD



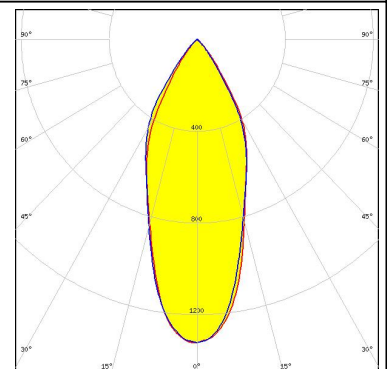
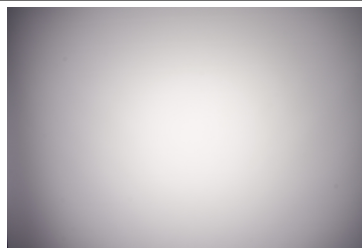
##### LUMILEDS

LED LUXEON Rebel ES  
 FWHM 46.0°  
 Efficiency 77 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14446\_FLORENTINA-SHD



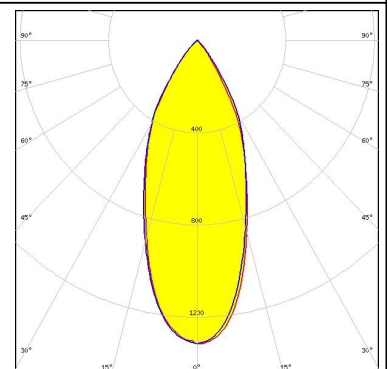
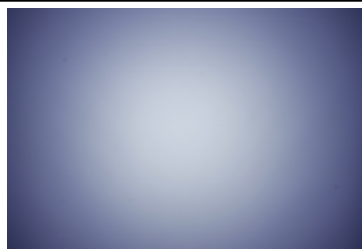
##### LUMILEDS

LED LUXEON Rebel Plus  
 FWHM 40.0°  
 Efficiency 79 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14446\_FLORENTINA-SHD



##### LUMILEDS

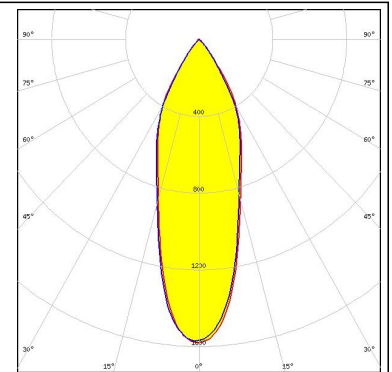
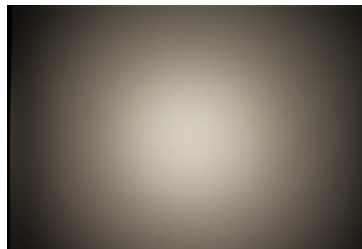
LED LUXEON TX  
 FWHM 41.0°  
 Efficiency 78 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14446\_FLORENTINA-SHD



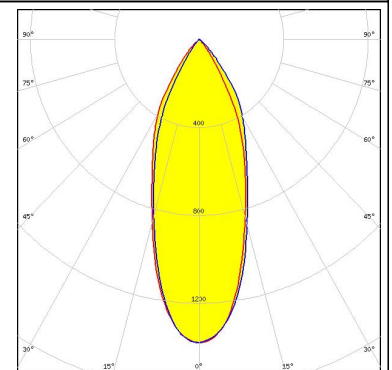
#### PHOTOMETRIC DATA (MEASURED):



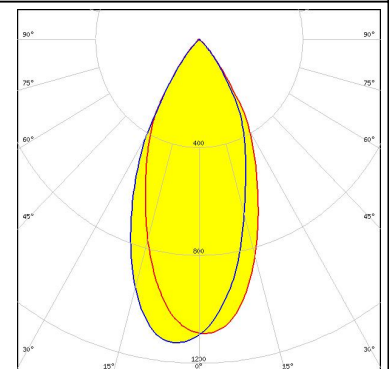
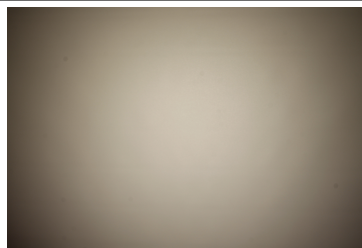
LED LUXEON Z ES  
 FWHM 33.0°  
 Efficiency 80 %  
 Peak intensity 1.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14446\_FLORENTINA-SHD



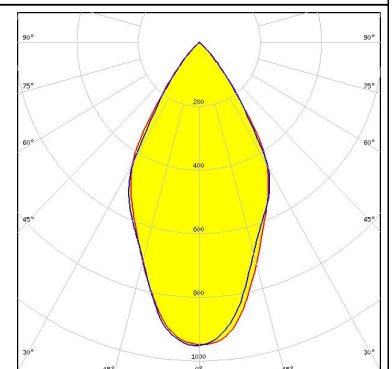
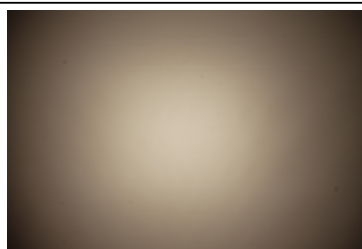
LED NCSxx19B  
 FWHM 38.0°  
 Efficiency 76 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14446\_FLORENTINA-SHD



LED NVSxx19B/NVSxx19C  
 FWHM 46.0°  
 Efficiency 74 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14446\_FLORENTINA-SHD



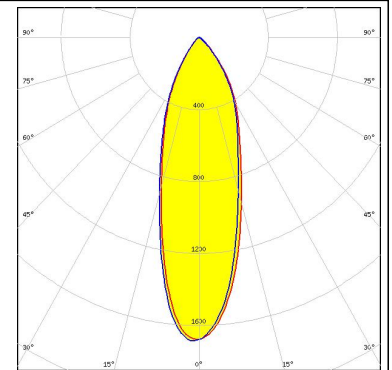
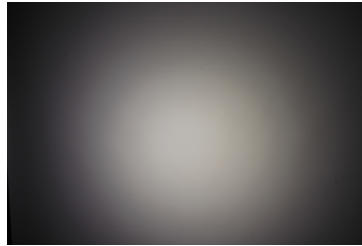
LED OSLOM Square EC  
 FWHM 57.0°  
 Efficiency 76 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14446\_FLORENTINA-SHD



#### PHOTOMETRIC DATA (MEASURED):

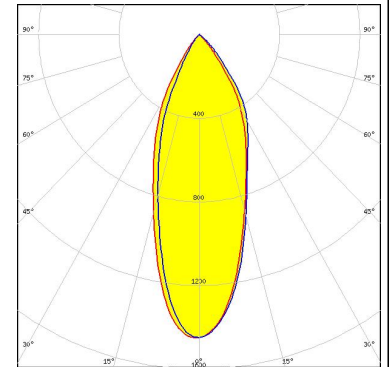
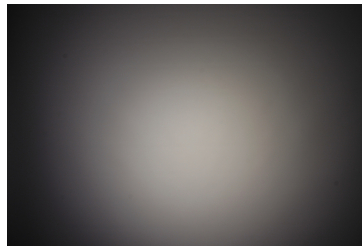
**OSRAM**  
Opto Semiconductors

LED OSLON SSL 150  
FWHM 32.0°  
Efficiency 85 %  
Peak intensity 1.7 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



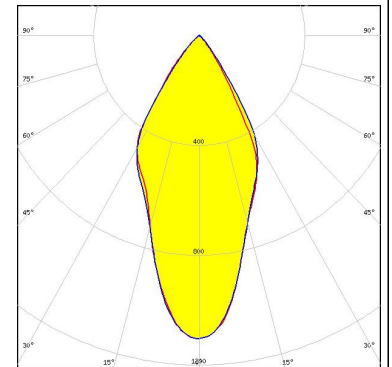
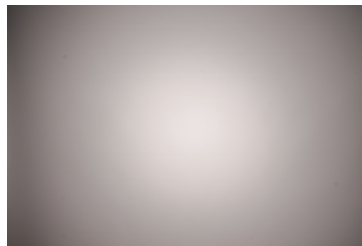
**OSRAM**  
Opto Semiconductors

LED OSLON SSL 150  
FWHM 37.0°  
Efficiency 79 %  
Peak intensity 1.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C14446\_FLORENTINA-SHD



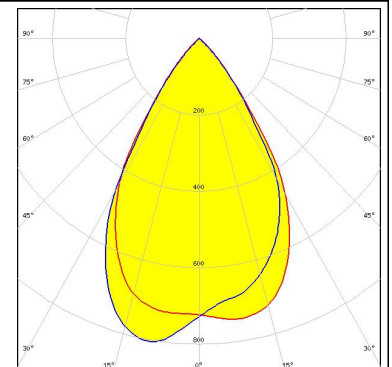
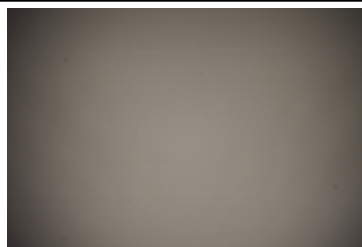
**OSRAM**  
Opto Semiconductors

LED OSLON SSL 80  
FWHM 47.0°  
Efficiency 75 %  
LEDs/each optic 1  
Light colour White  
Required components:  
C14446\_FLORENTINA-SHD



**SAMSUNG**

LED LH351B  
FWHM 64.0°  
Efficiency 77 %  
Peak intensity 0.8 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C14446\_FLORENTINA-SHD

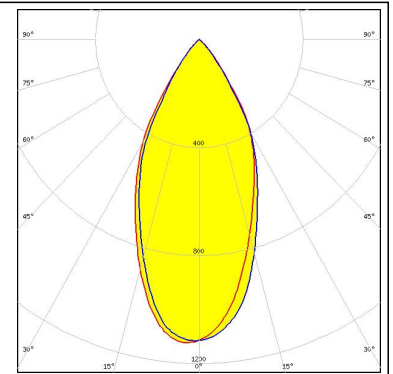
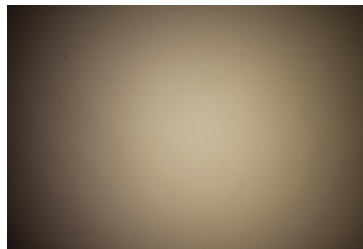


#### PHOTOMETRIC DATA (MEASURED):

#### TOSHIBA

Leading Innovation >>>

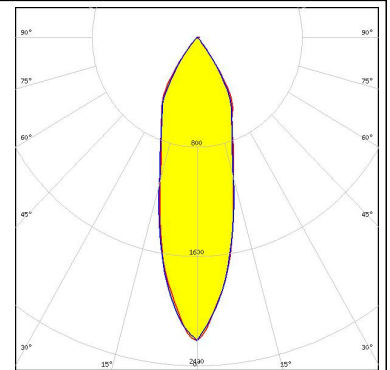
LED TL1L4  
FWHM 48.0°  
Efficiency 78 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C14446\_FLORENTINA-SHD



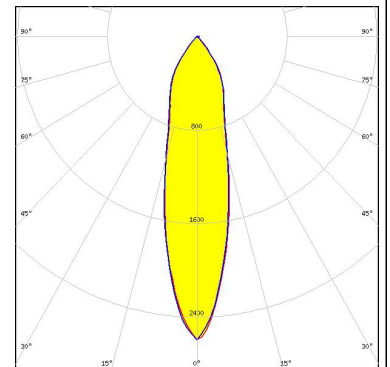
#### PHOTOMETRIC DATA (SIMULATED):



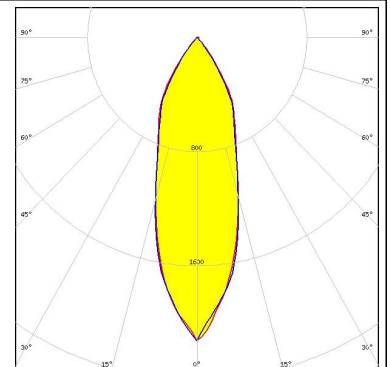
**LED** NCSxE17A  
**FWHM** 29.0°  
**Efficiency** 94 %  
**Peak intensity** 2.2 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**  
 C14446\_FLORENTINA-SHD



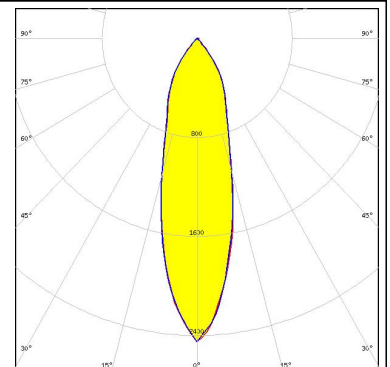
**LED** NCSxE17A  
**FWHM** 25.0°  
**Efficiency** 94 %  
**Peak intensity** 2.6 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**



**LED** NVSxE21A  
**FWHM** 33.0°  
**Efficiency** 94 %  
**Peak intensity** 2.1 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**  
 C14446\_FLORENTINA-SHD



**LED** NVSxE21A  
**FWHM** 28.0°  
**Efficiency** 94 %  
**Peak intensity** 2.5 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**

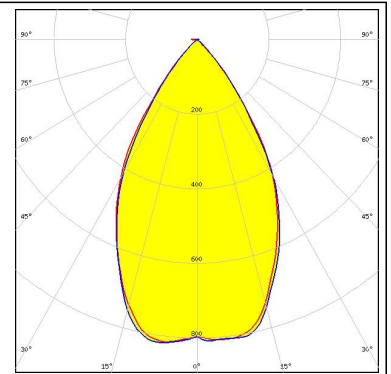




#### PHOTOMETRIC DATA (SIMULATED):



LED	NWSx229A
FWHM	60.0°
Efficiency	77 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	C14446_FLORENTINA-SHD



#### 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

#### 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)