

## FLORENTINA-HLD-WW

~45° wide beam

### SPECIFICATION:

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

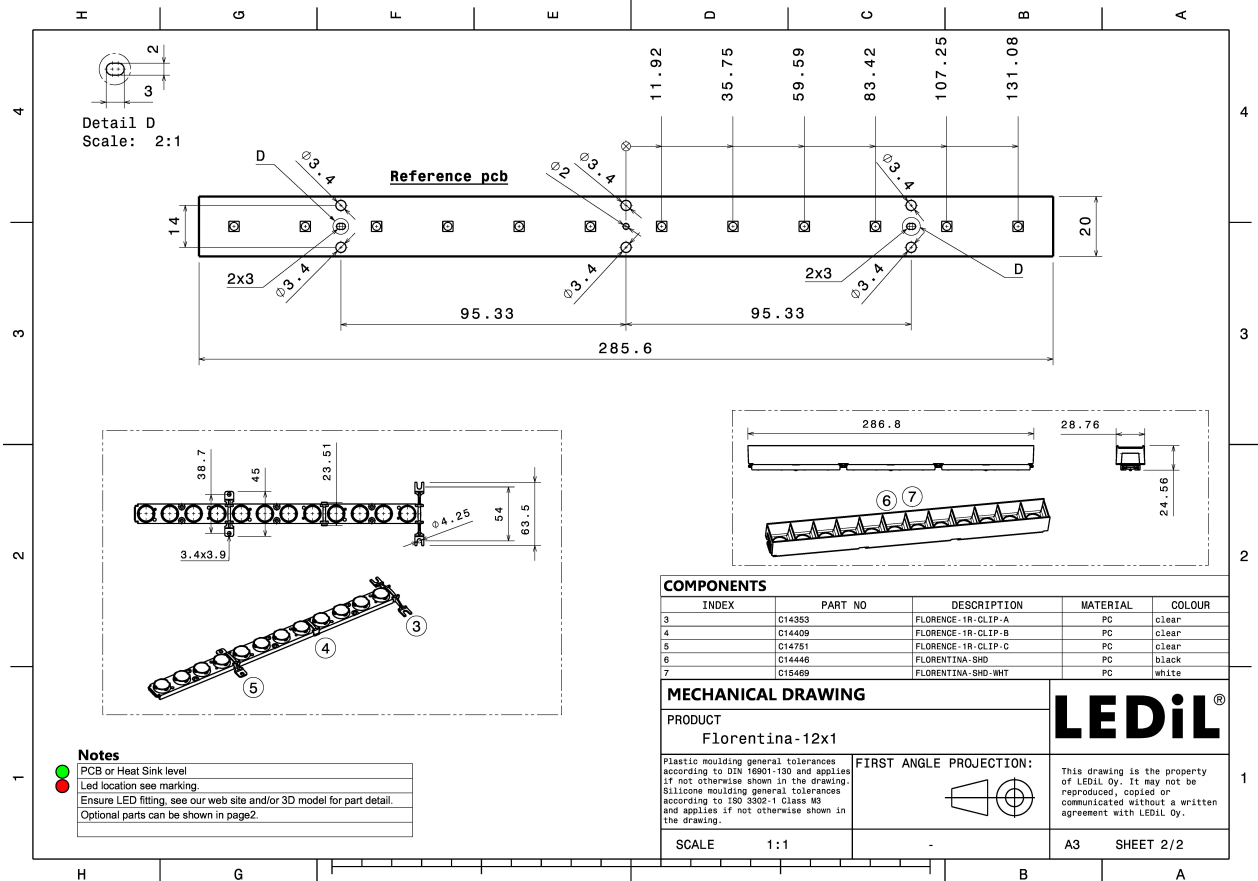
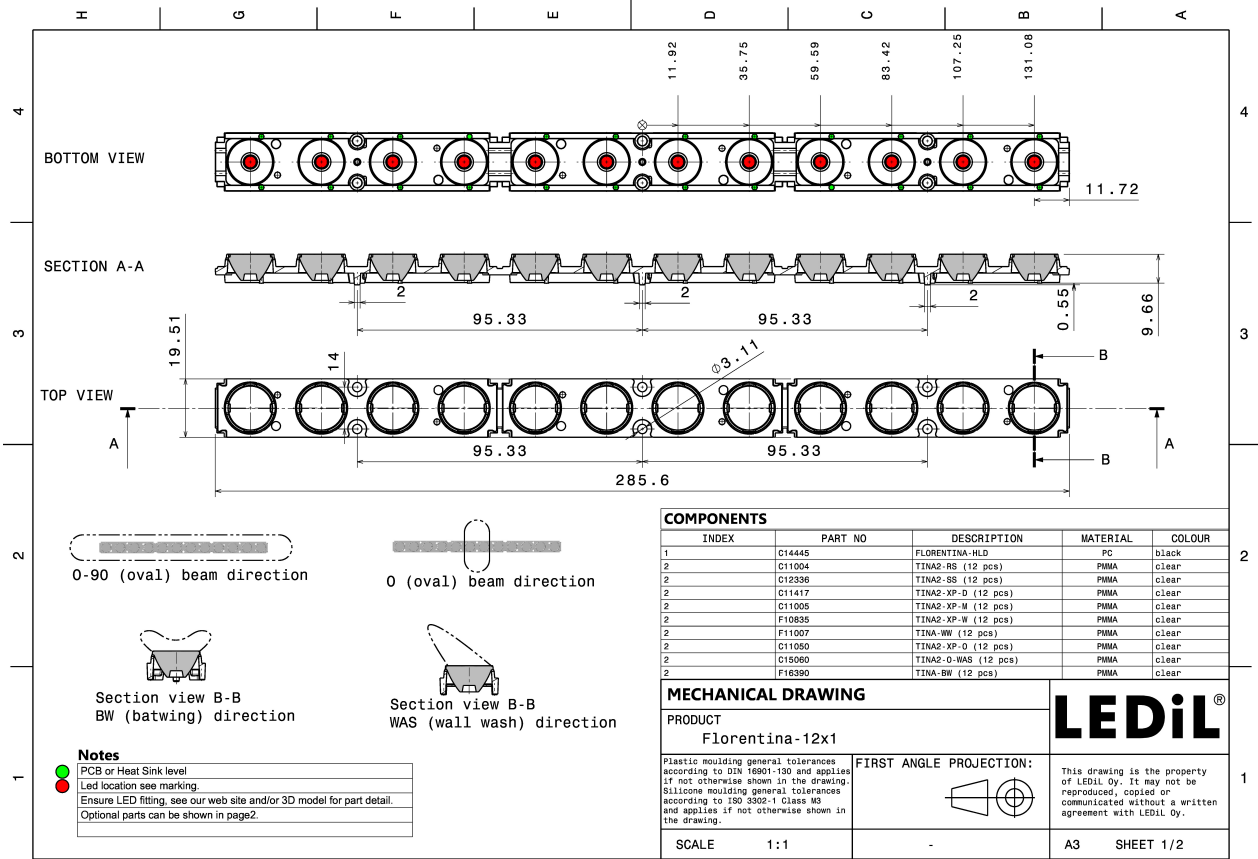
### MATERIALS:

Component	Type	Material	Colour	Finish	Length
TINA-WW-XP	Single lens	PMMA	clear		16.0
FLORENTINA-HLD	Holder	PC	black		285.6

### 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					



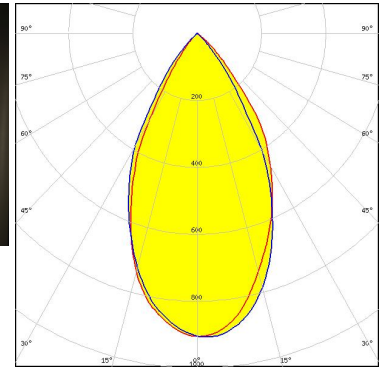
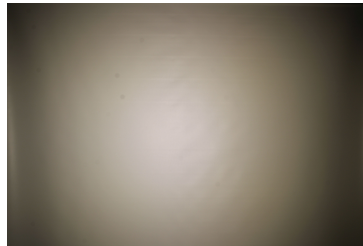


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

#### OPTICAL RESULTS (MEASURED):



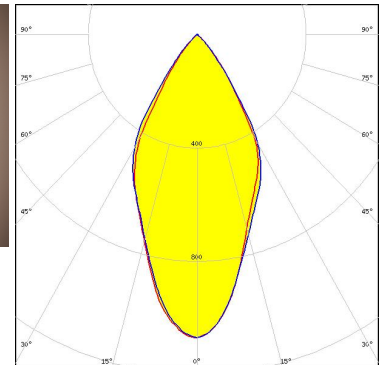
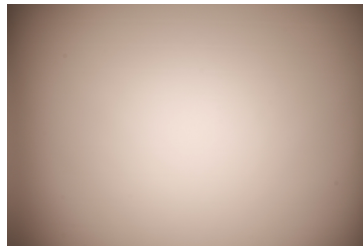
**LED** QUICK FLUX LED FL-XG 1x12 xxx  
**FWHM / FWTM** 56.0° / 84.0°  
**Efficiency** 75 %  
**Peak intensity** 0.9 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C14446\_FLORENTINA-SHD



Light distribution files



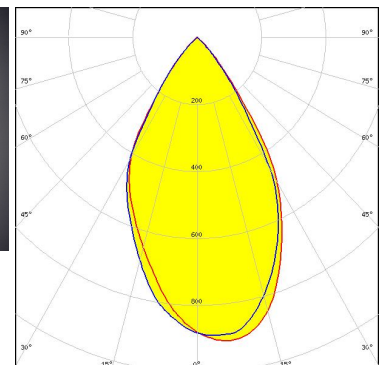
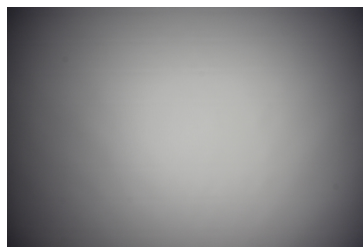
**LED** XP-E2  
**FWHM / FWTM** 52.0° / 82.0°  
**Efficiency** 77 %  
**Peak intensity** 1.1 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C14446\_FLORENTINA-SHD



Light distribution files



**LED** XP-G2  
**FWHM / FWTM** 59.0° / 86.0°  
**Efficiency** 78 %  
**Peak intensity** 0.9 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C14446\_FLORENTINA-SHD

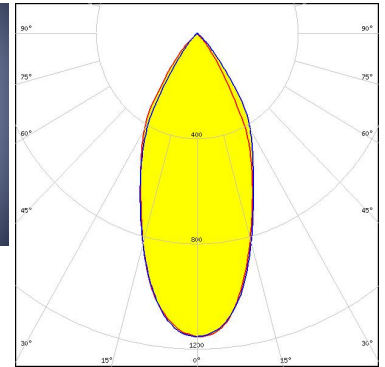


Light distribution files

#### OPTICAL RESULTS (MEASURED):



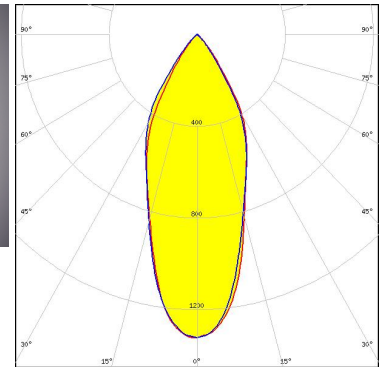
LED LUXEON Rebel ES  
 FWHM / FWTM 46.0° / 80.0°  
 Efficiency 77 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C14446\_FLORENTINA-SHD



Light distribution files



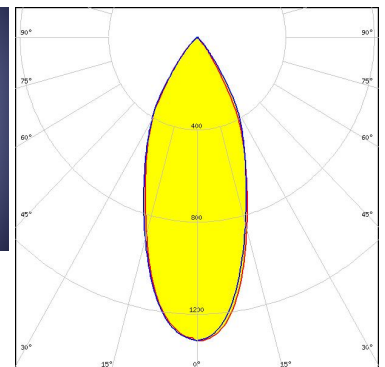
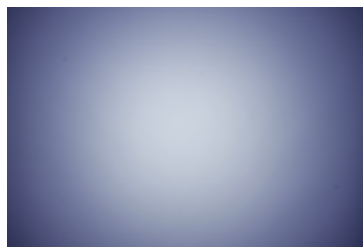
LED LUXEON Rebel Plus  
 FWHM / FWTM 40.0° / 78.0°  
 Efficiency 79 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C14446\_FLORENTINA-SHD



Light distribution files



LED LUXEON TX  
 FWHM / FWTM 41.0° / 77.0°  
 Efficiency 78 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C14446\_FLORENTINA-SHD

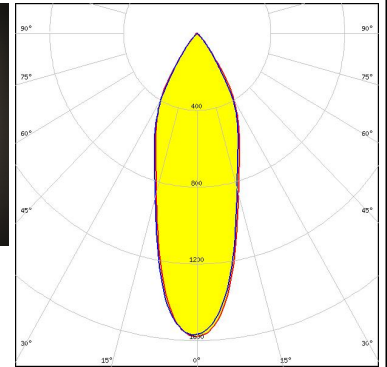
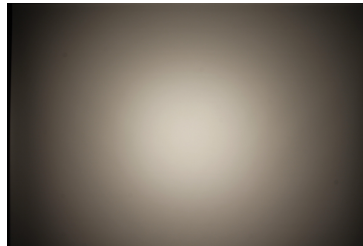


Light distribution files

#### OPTICAL RESULTS (MEASURED):



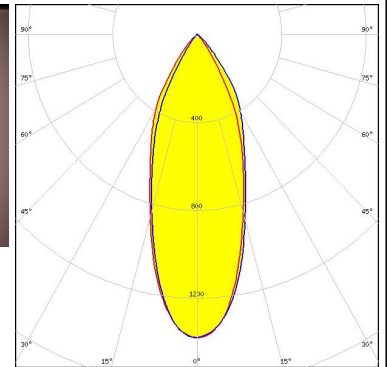
**LED** LUXEON Z ES  
**FWHM / FWTM** 33.0° / 75.0°  
**Efficiency** 80 %  
**Peak intensity** 1.6 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C14446\_FLORENTINA-SHD



Light distribution files



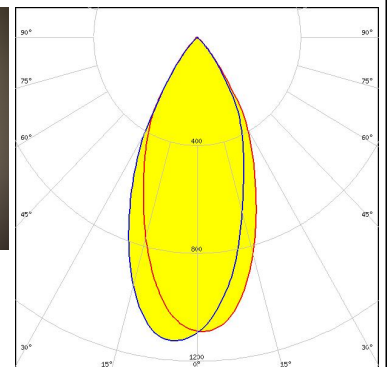
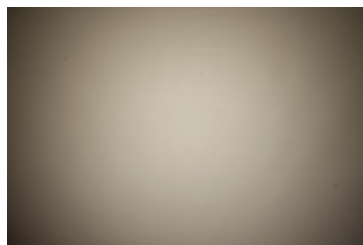
**LED** NCSxx19B  
**FWHM / FWTM** 38.0° / 76.0°  
**Efficiency** 76 %  
**Peak intensity** 1.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C14446\_FLORENTINA-SHD



Light distribution files



**LED** NVSxx19B/NVSxx19C  
**FWHM / FWTM** 46.0° / 80.0°  
**Efficiency** 74 %  
**Peak intensity** 1.1 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C14446\_FLORENTINA-SHD

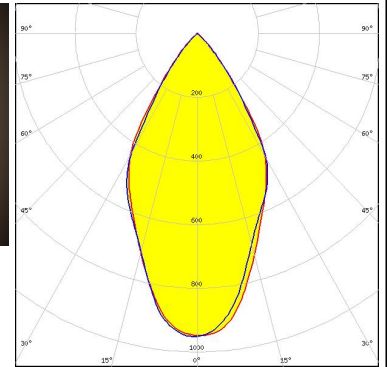


Light distribution files

#### OPTICAL RESULTS (MEASURED):

**OSRAM**  
Opto Semiconductors

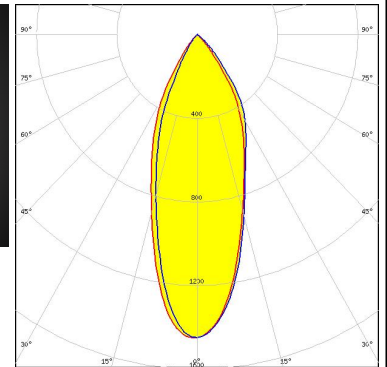
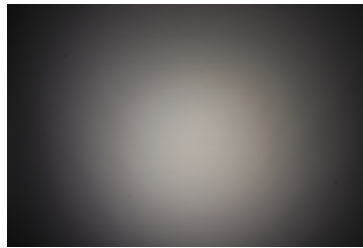
LED OSLON Square EC  
 FWHM / FWTM 57.0° / 84.0°  
 Efficiency 76 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C14446\_FLORENTINA-SHD



Light distribution files

**OSRAM**  
Opto Semiconductors

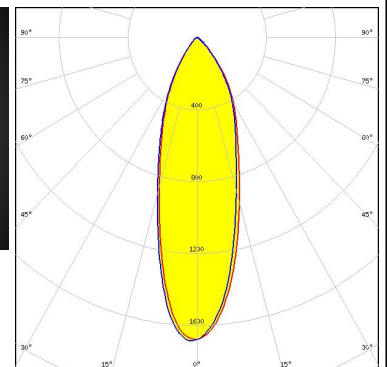
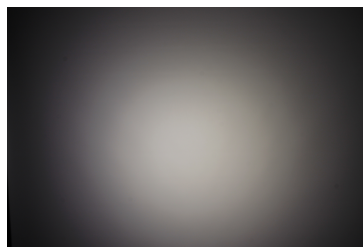
LED OSLON SSL 150  
 FWHM / FWTM 37.0° / 75.0°  
 Efficiency 79 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C14446\_FLORENTINA-SHD



Light distribution files

**OSRAM**  
Opto Semiconductors

LED OSLON SSL 150  
 FWHM / FWTM 32.0° / 76.0°  
 Efficiency 85 %  
 Peak intensity 1.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

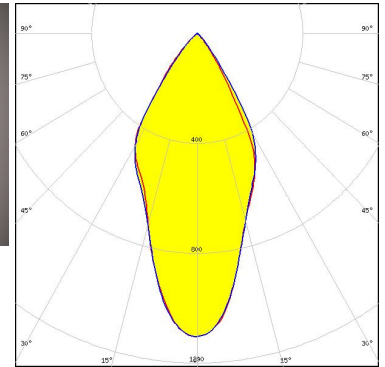
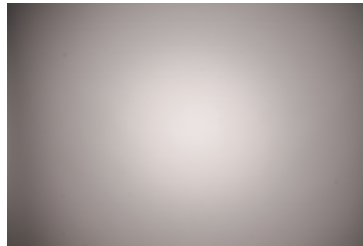


Light distribution files

#### OPTICAL RESULTS (MEASURED):

**OSRAM**  
Opto Semiconductors

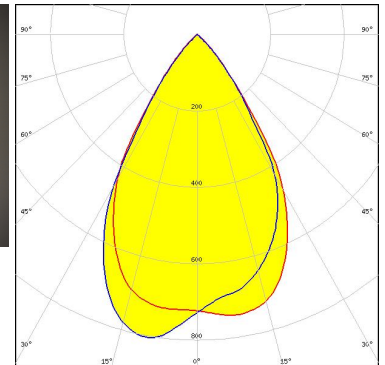
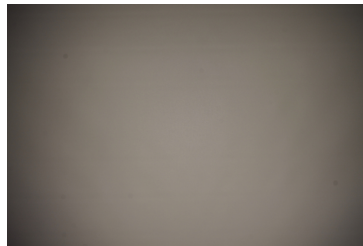
LED OSLON SSL 80  
FWHM / FWTM 47.0° / 80.0°  
Efficiency 75 %  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C14446\_FLORENTINA-SHD



Light distribution files

**SAMSUNG**

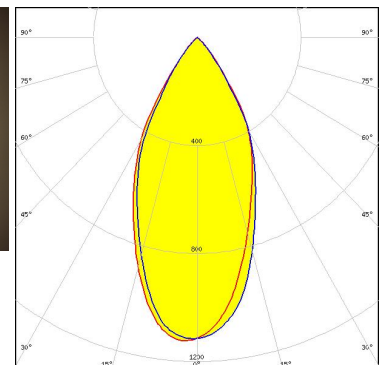
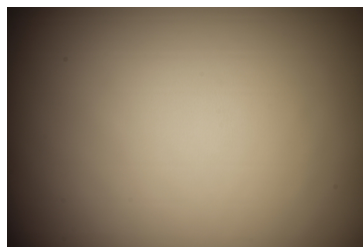
LED LH351B  
FWHM / FWTM 64.0° / 87.0°  
Efficiency 77 %  
Peak intensity 0.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C14446\_FLORENTINA-SHD



Light distribution files

**TOSHIBA**  
Leading Innovation >>>

LED TL1L4  
FWHM / FWTM 48.0° / 80.0°  
Efficiency 78 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C14446\_FLORENTINA-SHD

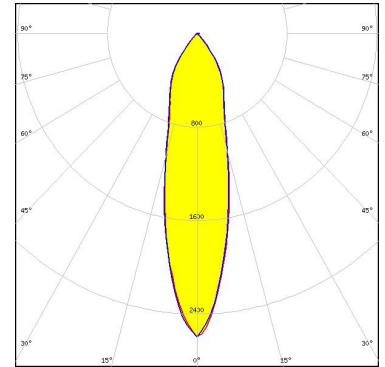


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



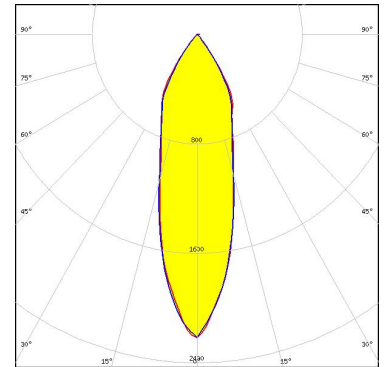
LED NCSxE17A  
FWHM / FWTM 25.0° / 73.0°  
Efficiency 94 %  
Peak intensity 2.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



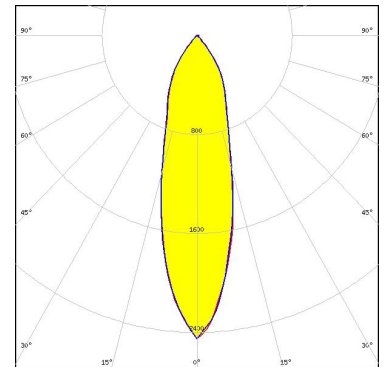
LED NCSxE17A  
FWHM / FWTM 29.0° / 73.0°  
Efficiency 94 %  
Peak intensity 2.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C14446\_FLORENTINA-SHD



Light distribution files



LED NVSxE21A  
FWHM / FWTM 28.0° / 74.0°  
Efficiency 94 %  
Peak intensity 2.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

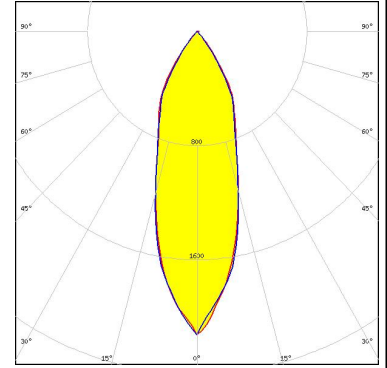
#### OPTICAL RESULTS (SIMULATED):



LED NVSxE21A  
FWHM / FWTM 33.0° / 73.0°  
Efficiency 94 %  
Peak intensity 2.1 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C14446\_FLORENTINA-SHD



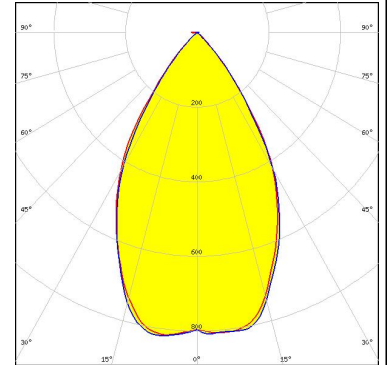
Light distribution files



LED NWSx229A  
FWHM / FWTM 60.0° / 85.0°  
Efficiency 77 %  
Peak intensity 0.8 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C14446\_FLORENTINA-SHD



Light distribution files

#### GENERAL INFORMATION:

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

#### MATERIALS:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

#### PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

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#### Local sales and technical support

[www.ledil.com/  
where\\_to\\_buy](http://www.ledil.com/where_to_buy)

#### Shipping locations

Poznan, Poland  
Hong Kong, China

#### Distribution Partners

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where\\_to\\_buy](http://www.ledil.com/where_to_buy)