

## FLORENTINA-HLD-D

~18° diffused spot beam

### SPECIFICATION:

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

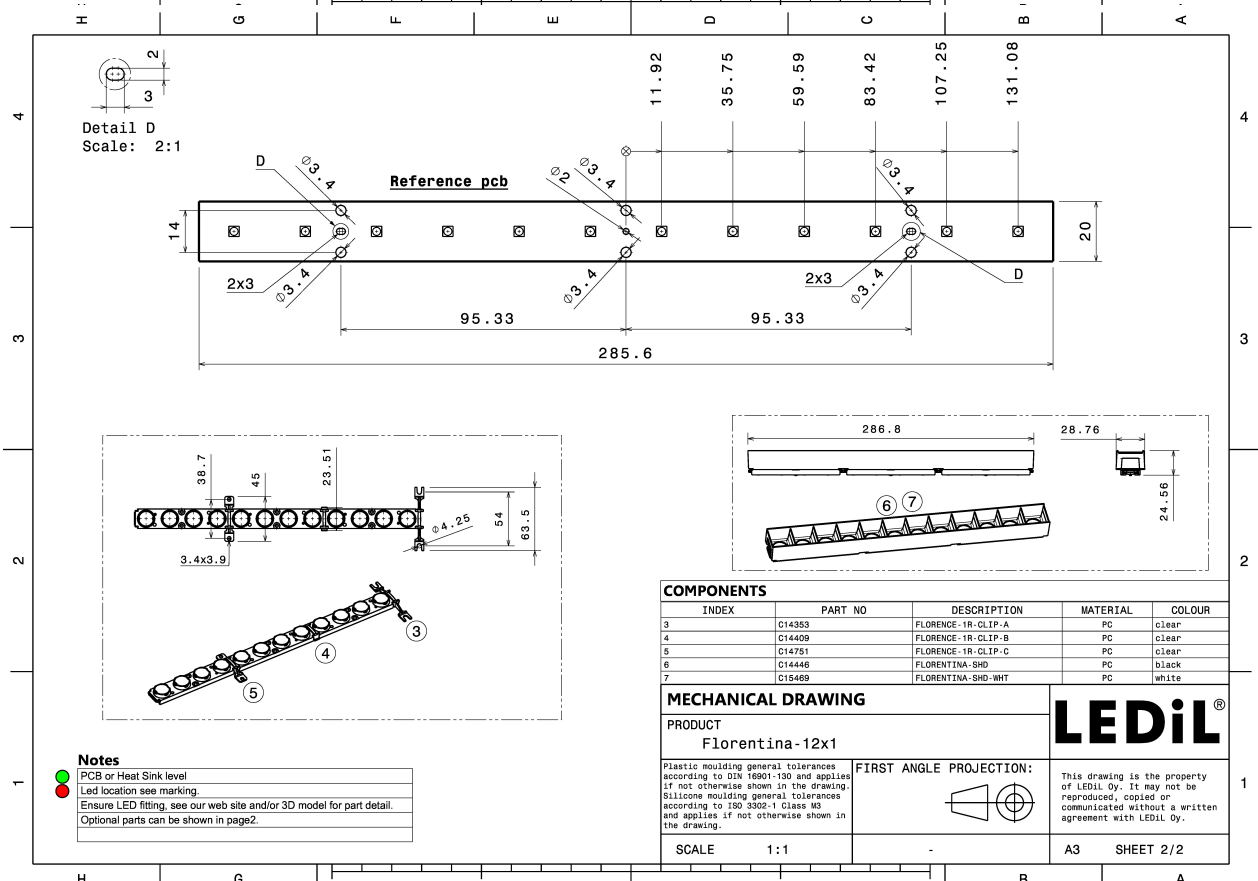
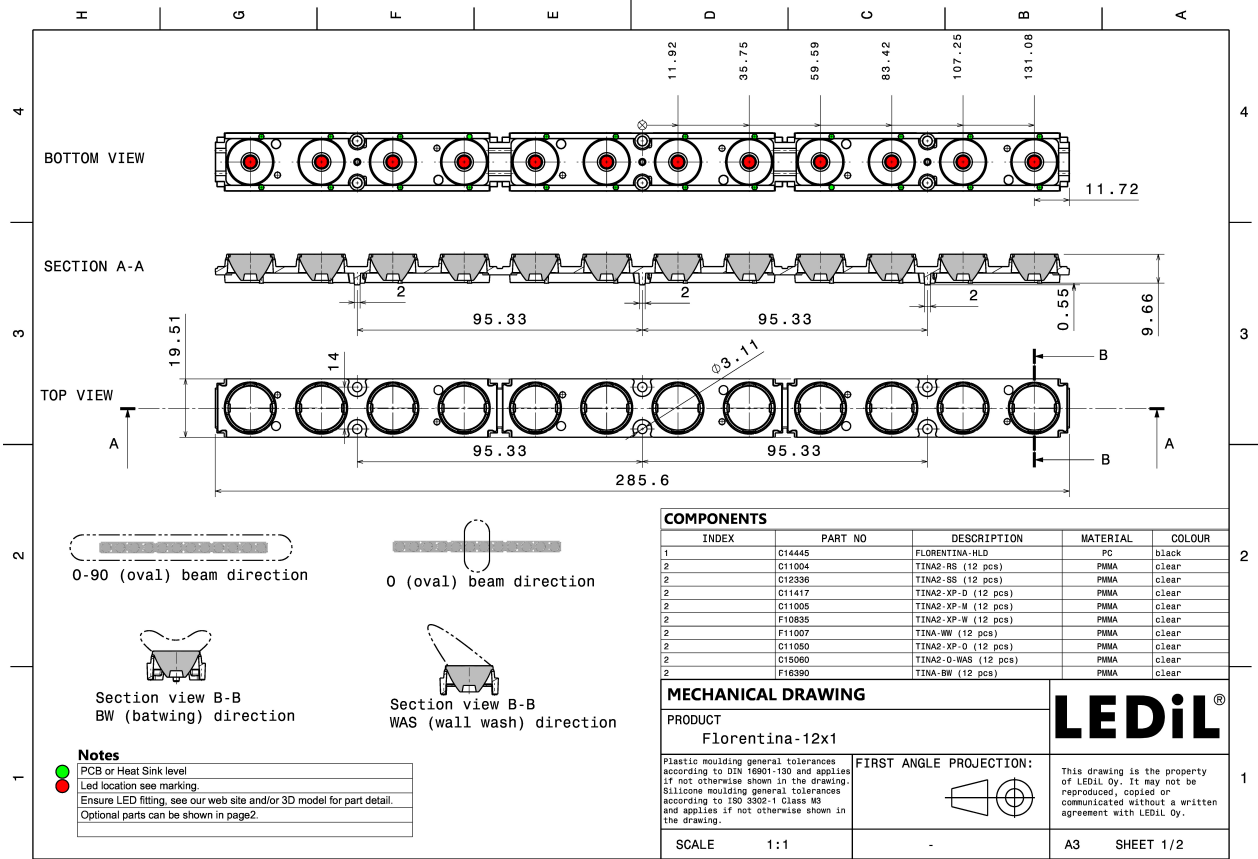
### MATERIALS:

Component	Type	Material	Colour	Finish	Length (mm)
TINA2-XP-D	Single lens	PMMA	clear		
FLORENTINA-HLD	Holder	PC	black		



### ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CP14996_FLORENTINA-HLD-D	Single lens	160	32	16	5.2
» Box size: 398 x 298 x 140 mm					

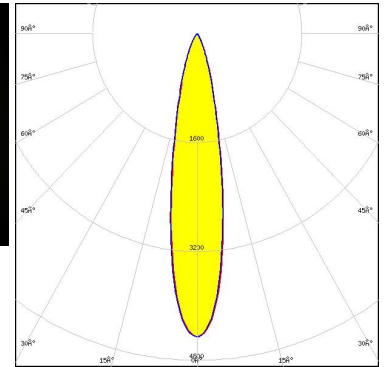
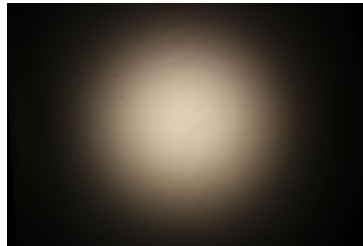


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

### OPTICAL RESULTS (MEASURED):



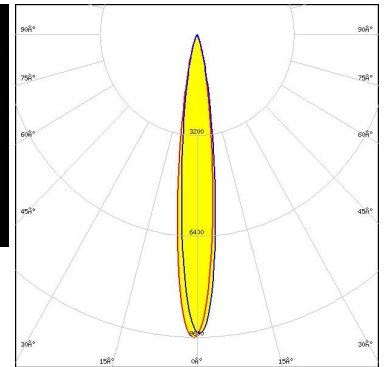
**LED** QUICK FLUX LED FL-XG 1x12 xxx  
**FWHM / FWTM** 20.0° / 43.0°  
**Efficiency** 81 %  
**Peak intensity** 4.5 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C14446\_FLORENTINA-SHD



Light distribution files



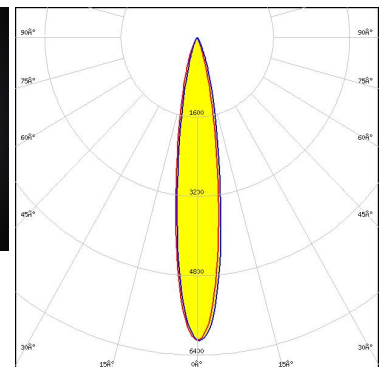
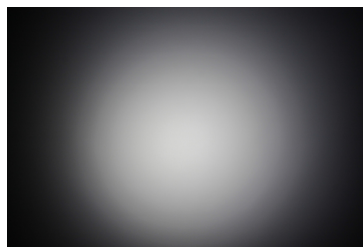
**LED** XP-E2  
**FWHM / FWTM** 13.0° / 30.0°  
**Efficiency** 84 %  
**Peak intensity** 9.6 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C14446\_FLORENTINA-SHD



Light distribution files



**LED** XP-G2  
**FWHM / FWTM** 17.0° / 37.0°  
**Efficiency** 82 %  
**Peak intensity** 6.2 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C14446\_FLORENTINA-SHD

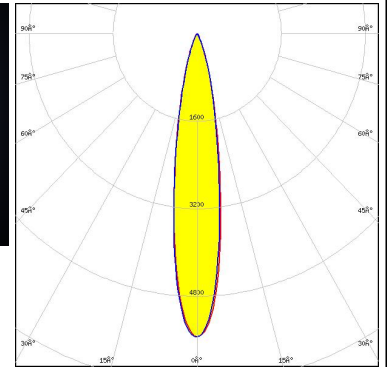
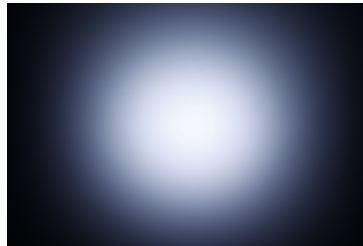


Light distribution files

### OPTICAL RESULTS (MEASURED):



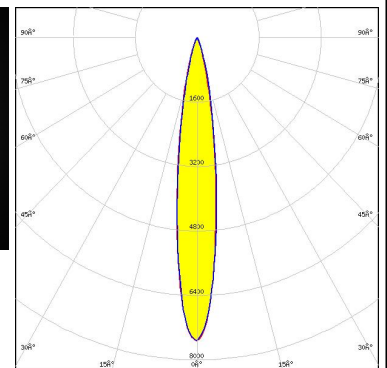
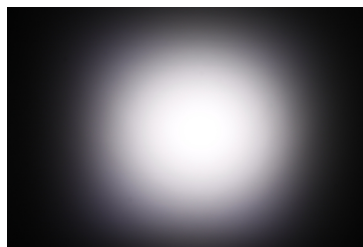
**LED** LUXEON Rebel ES  
**FWHM / FWTM** 18.0° / 39.0°  
**Efficiency** 81 %  
**Peak intensity** 5.5 cd/m  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C14446\_FLORENTINA-SHD



Light distribution files



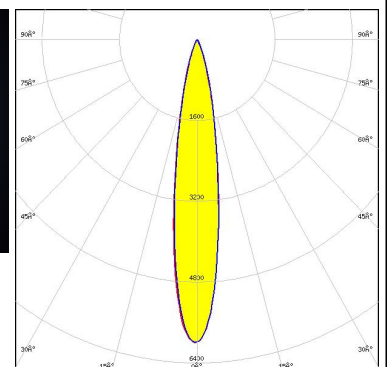
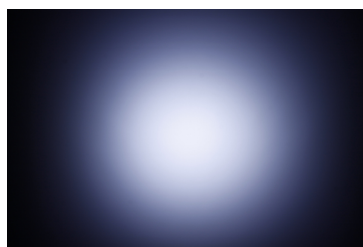
**LED** LUXEON Rebel Plus  
**FWHM / FWTM** 15.0° / 33.0°  
**Efficiency** 82 %  
**Peak intensity** 7.5 cd/m  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C14446\_FLORENTINA-SHD



Light distribution files



**LED** LUXEON TX  
**FWHM / FWTM** 17.0° / 37.0°  
**Efficiency** 82 %  
**Peak intensity** 6 cd/m  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C14446\_FLORENTINA-SHD



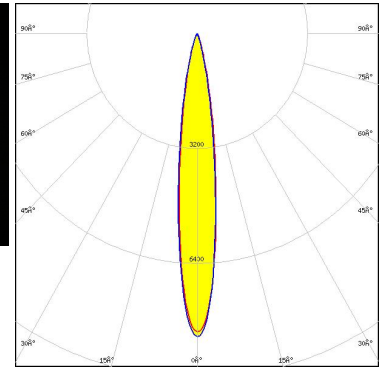
Light distribution files



### OPTICAL RESULTS (MEASURED):



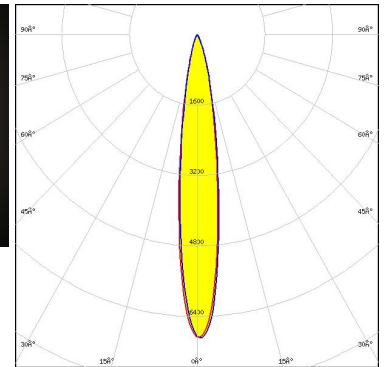
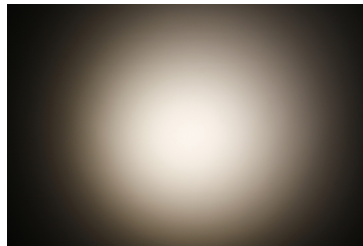
LED LUXEON Z ES  
FWHM / FWTM 15.0° / 31.0°  
Efficiency 82 %  
Peak intensity 8.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C14446\_FLORENTINA-SHD



Light distribution files



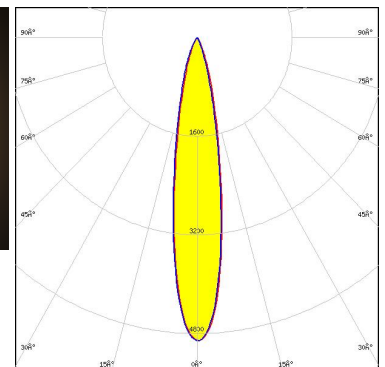
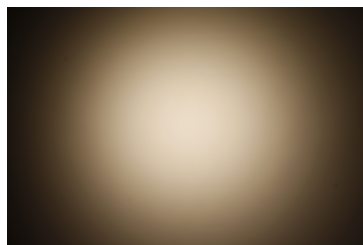
LED NCSxx19B  
FWHM / FWTM 15.0° / 34.0°  
Efficiency 79 %  
Peak intensity 6.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C14446\_FLORENTINA-SHD



Light distribution files



LED NVSxx19B/NVSxx19C  
FWHM / FWTM 19.0° / 40.0°  
Efficiency 78 %  
Peak intensity 4.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C14446\_FLORENTINA-SHD

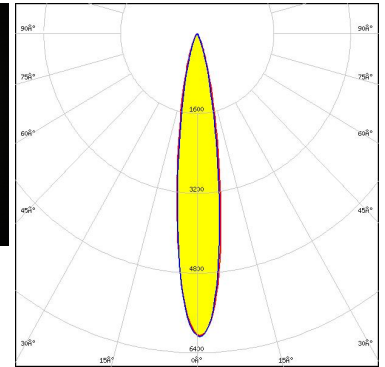


Light distribution files

#### OPTICAL RESULTS (MEASURED):

**OSRAM**  
Opto Semiconductors

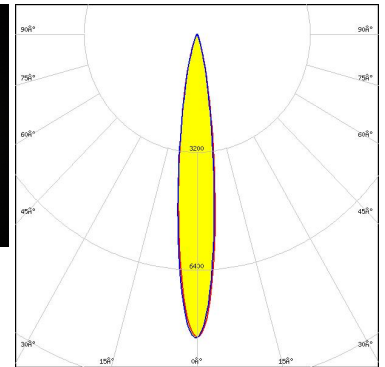
LED OSLON Square EC  
 FWHM / FWTM 17.0° / 37.0°  
 Efficiency 80 %  
 Peak intensity 6.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C14446\_FLORENTINA-SHD



Light distribution files

**OSRAM**  
Opto Semiconductors

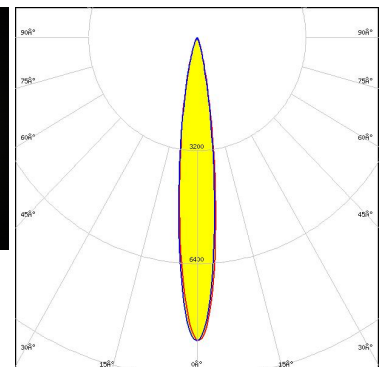
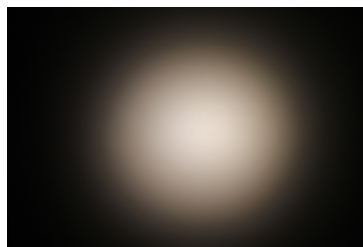
LED OSLON SSL 150  
 FWHM / FWTM 14.0° / 31.0°  
 Efficiency 84 %  
 Peak intensity 8.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

LED OSLON SSL 150  
 FWHM / FWTM 14.0° / 30.0°  
 Efficiency 80 %  
 Peak intensity 8.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C14446\_FLORENTINA-SHD

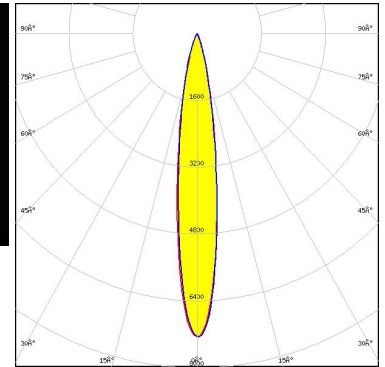


Light distribution files

#### OPTICAL RESULTS (MEASURED):

**OSRAM**  
Opto Semiconductors

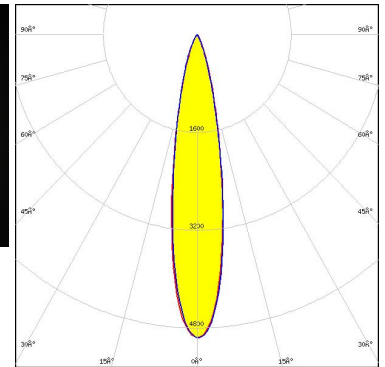
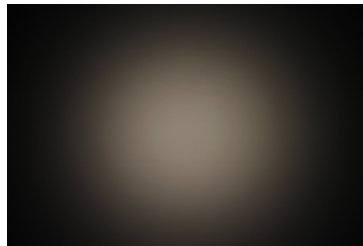
LED OSLON SSL 80  
 FWHM / FWTM 15.0° / 34.0°  
 Efficiency 82 %  
 Peak intensity 7.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C14446\_FLORENTINA-SHD



Light distribution files

**SAMSUNG**

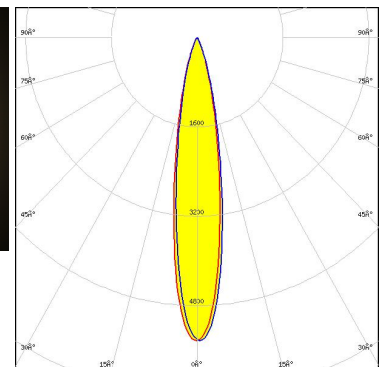
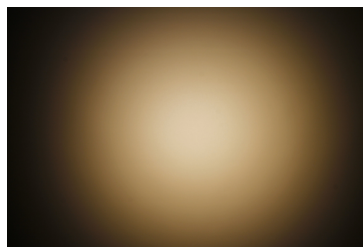
LED LH351B  
 FWHM / FWTM 20.0° / 41.0°  
 Efficiency 82 %  
 Peak intensity 5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C14446\_FLORENTINA-SHD



Light distribution files

**TOSHIBA**  
Leading Innovation >>>

LED TL1L4  
 FWHM / FWTM 18.0° / 39.0°  
 Efficiency 80 %  
 Peak intensity 5.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C14446\_FLORENTINA-SHD

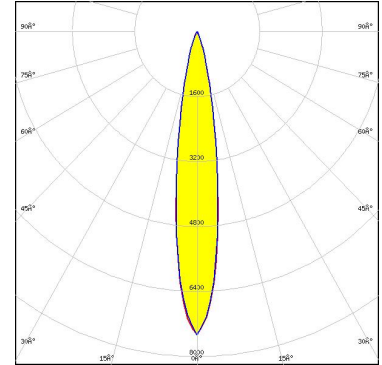


Light distribution files

### OPTICAL RESULTS (SIMULATED):



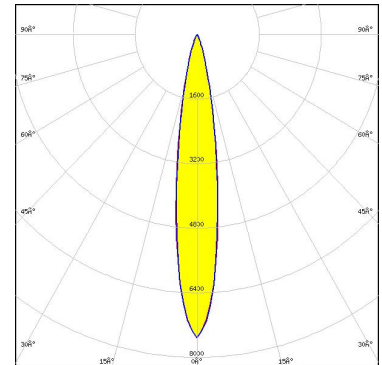
LED J Series 3030  
FWHM / FWTM 16.0° / 34.0°  
Efficiency 88 %  
Peak intensity 7.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C14446\_FLORENTINA-SHD



Light distribution files



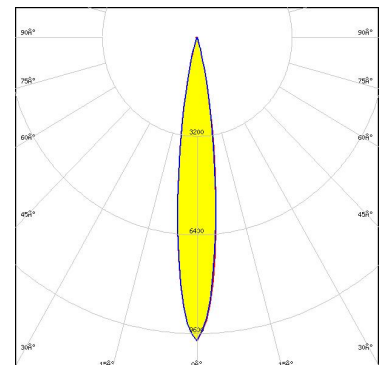
LED J Series 3030  
FWHM / FWTM 16.0° / 34.0°  
Efficiency 91 %  
Peak intensity 7.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED NCSxE17A  
FWHM / FWTM 15.0° / 29.0°  
Efficiency 82 %  
Peak intensity 12 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C14446\_FLORENTINA-SHD



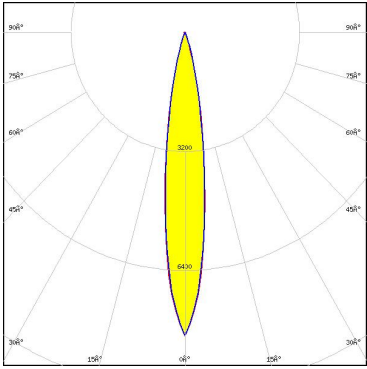
Light distribution files

#### OPTICAL RESULTS (SIMULATED):

**NICHIA**

LED	NVSxE21A
FWHM / FWTM	16.0° / 32.0°
Efficiency	82 %
Peak intensity	10 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:  
C14446\_FLORENTINA-SHD

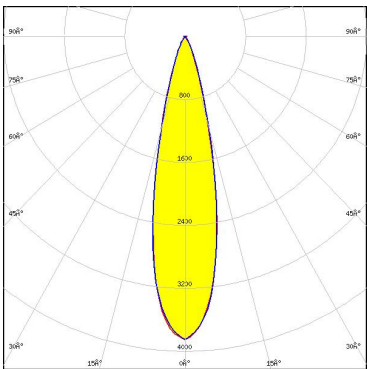


Light distribution files

**NICHIA**

LED	NWSx229A
FWHM / FWTM	24.0° / 44.0°
Efficiency	86 %
Peak intensity	3.9 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.

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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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