

## FLORENTINA-HLD-SS

~16° smooth spot beam

### TECHNICAL SPECIFICATIONS:

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

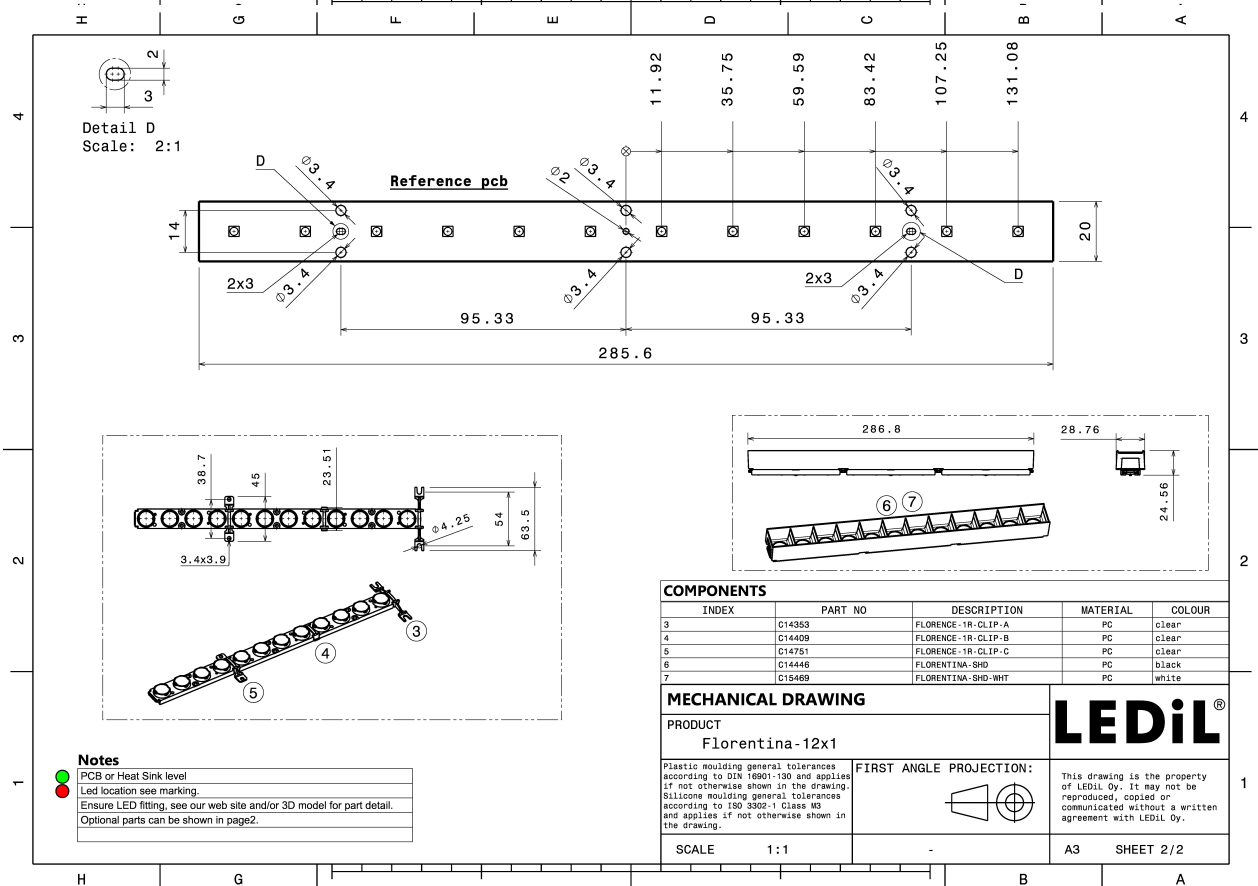
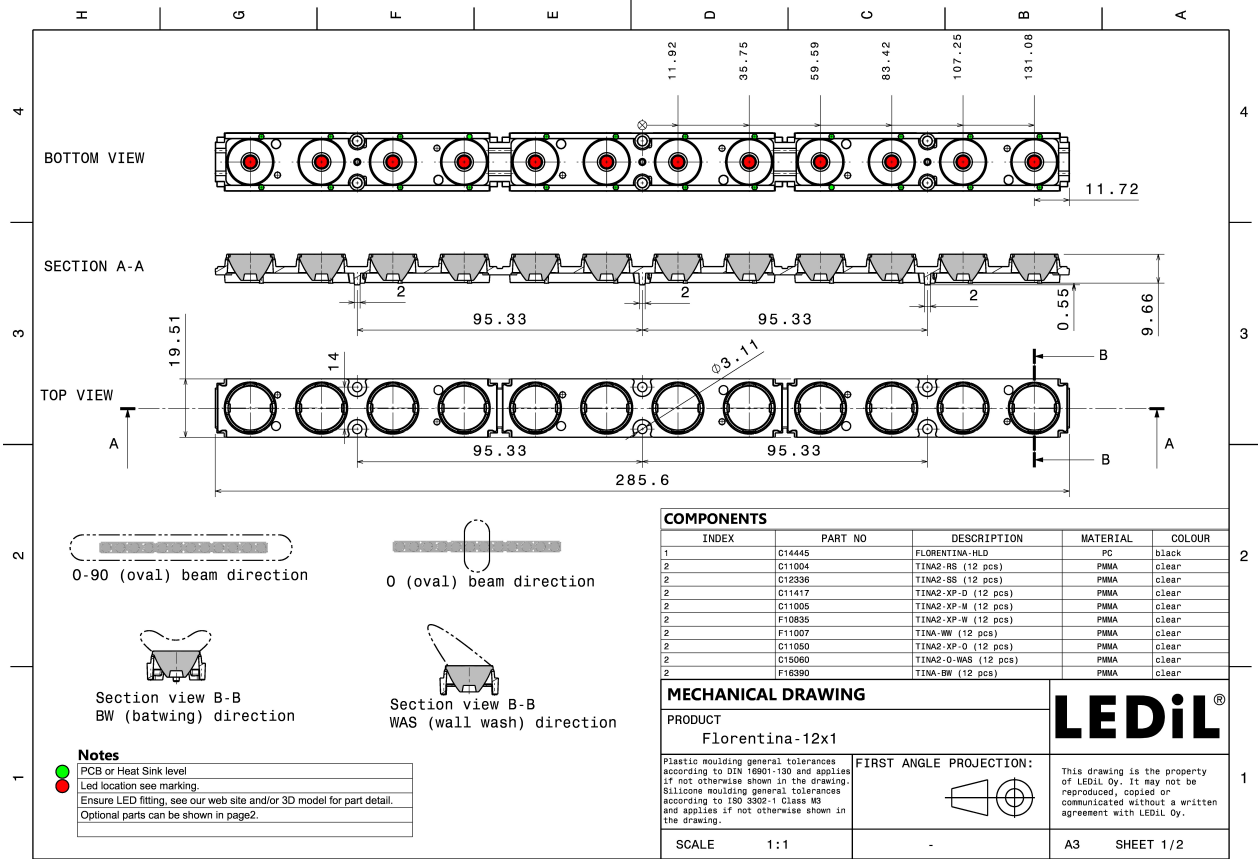
### MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
TINA2-SS	Single lens	PMMA	clear	
FLORENTINA-HLD	Holder	PC	black	



### ORDERING INFORMATION:

Component	Type	Qty in box	MOQ	MPQ	Box weight (kg)
CP14993_FLORENTINA-HLD-SS » Box size: 398 x 298 x 140 mm	Single lens	160	32	16	3.3

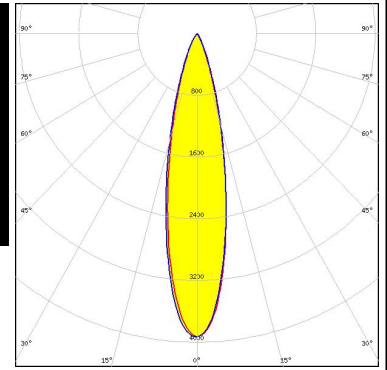
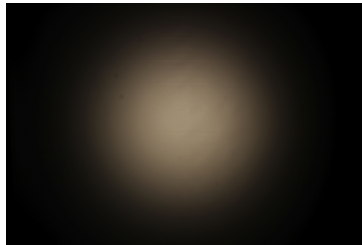


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

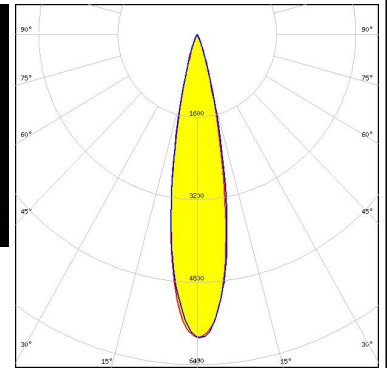
#### PHOTOMETRIC DATA (MEASURED):



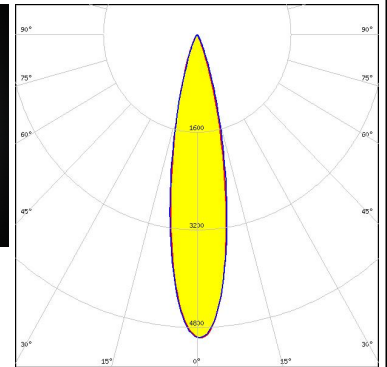
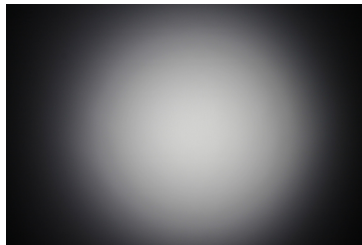
**LED** QUICK FLUX LED FL-XG 1x12 xxx  
**FWHM / FWTM** 23.0° / 46.0°  
**Efficiency** 83 %  
**Peak intensity** 3.9 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**  
 C14446\_FLORENTINA-SHD



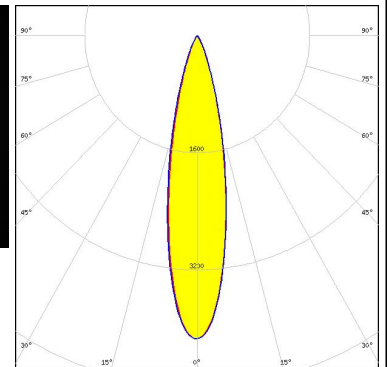
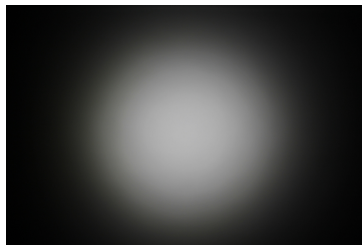
**LED** XP-E2  
**FWHM / FWTM** 21.0° / 36.0°  
**Efficiency** 85 %  
**Peak intensity** 5.9 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**  
 C14446\_FLORENTINA-SHD



**LED** XP-G2  
**FWHM / FWTM** 22.0° / 41.0°  
**Efficiency** 87 %  
**Peak intensity** 5 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**  
 C14446\_FLORENTINA-SHD



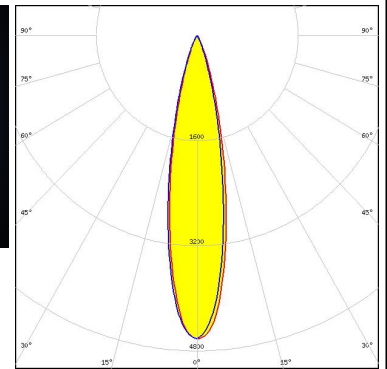
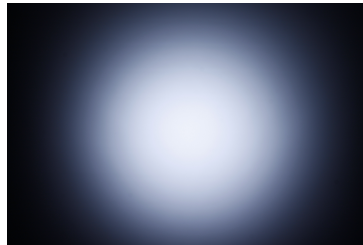
**LED** XP-G3  
**FWHM / FWTM** 23.0° / 45.0°  
**Efficiency** 83 %  
**Peak intensity** 4.1 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**  
 C14446\_FLORENTINA-SHD



#### PHOTOMETRIC DATA (MEASURED):

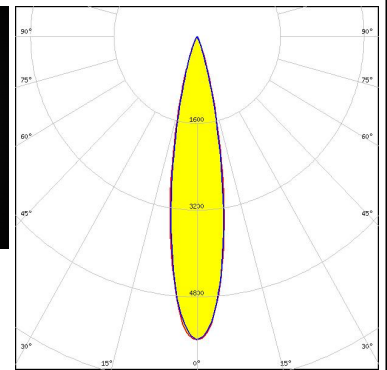
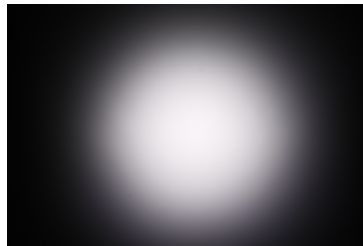
#### LUMILEDS

LED LUXEON Rebel ES  
 FWHM / FWTM 22.0° / 42.0°  
 Efficiency 83 %  
 Peak intensity 4.6 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14446\_FLORENTINA-SHD



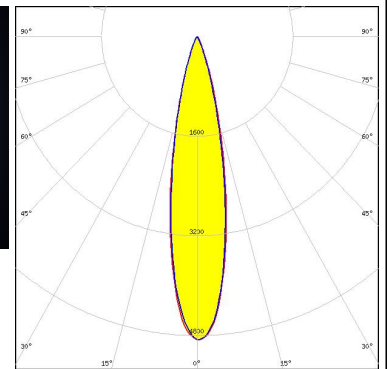
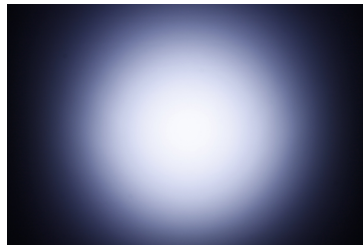
#### LUMILEDS

LED LUXEON Rebel Plus  
 FWHM / FWTM 20.0° / 38.0°  
 Efficiency 84 %  
 Peak intensity 5.6 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14446\_FLORENTINA-SHD



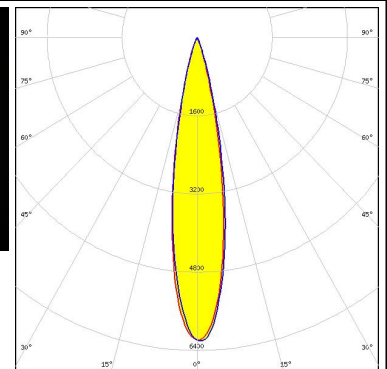
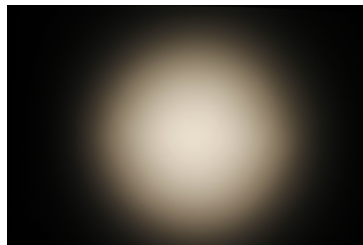
#### LUMILEDS

LED LUXEON TX  
 FWHM / FWTM 21.0° / 41.0°  
 Efficiency 84 %  
 Peak intensity 4.9 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14446\_FLORENTINA-SHD



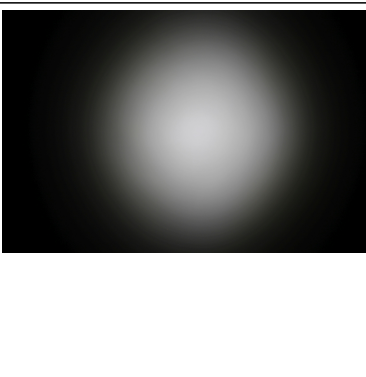
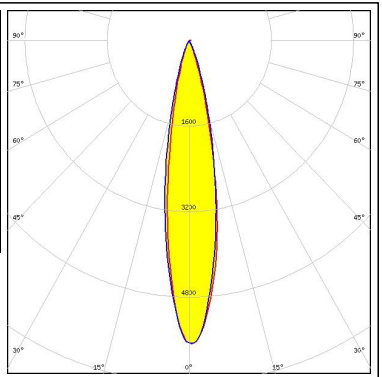

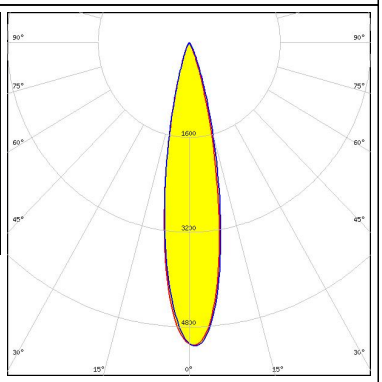

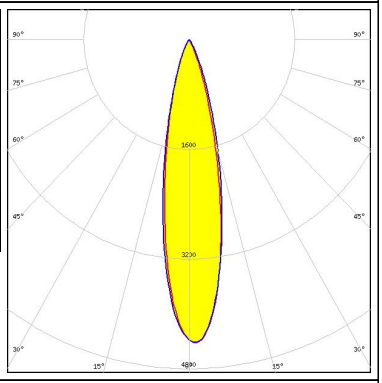

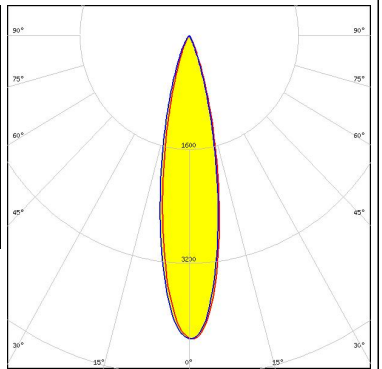
#### LUMILEDS

LED LUXEON Z ES  
 FWHM / FWTM 20.0° / 36.0°  
 Efficiency 85 %  
 Peak intensity 6.2 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14446\_FLORENTINA-SHD


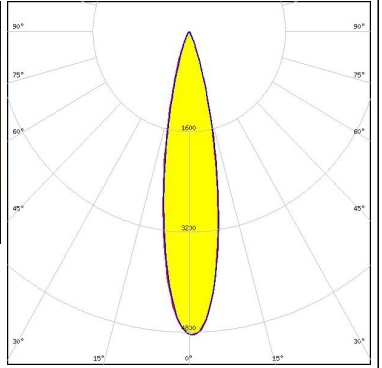

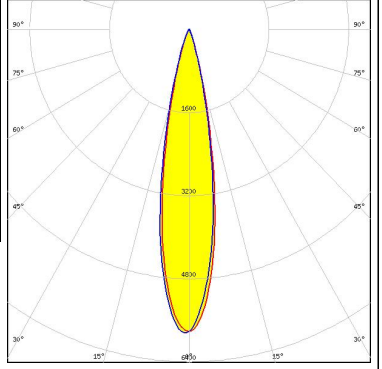
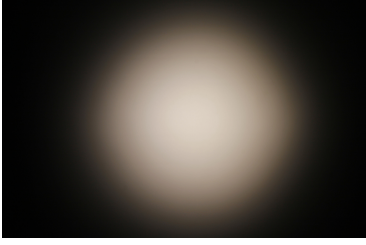
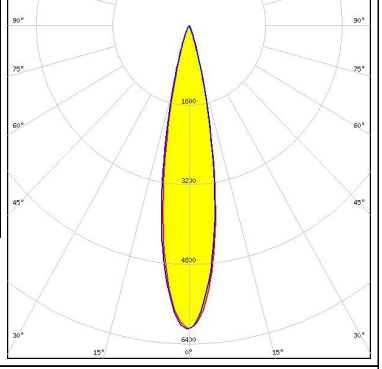

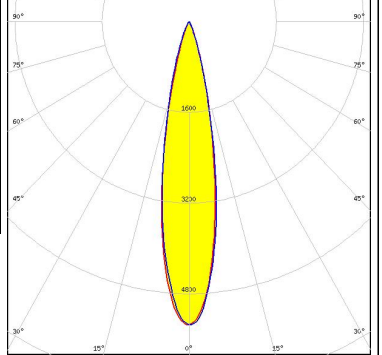




#### PHOTOMETRIC DATA (MEASURED):

<p><b>NICHIA</b></p> <p>LED NCSxE17A            FWHM / FWTM 20.0° / 38.0°            Efficiency 82 %            Peak intensity 5.7 cd/m            LEDs/each optic 1            Light colour White            Required components:            C14446_FLORENTINA-SHD</p>		
<p><b>NICHIA</b></p> <p>LED NCSxx19B            FWHM / FWTM 21.0° / 39.0°            Efficiency 84 %            Peak intensity 5.1 cd/m            LEDs/each optic 1            Light colour White            Required components:            C14446_FLORENTINA-SHD</p>		
<p><b>NICHIA</b></p> <p>LED NF2x757G            FWHM / FWTM 22.0° / 44.0°            Efficiency 87 %            Peak intensity 4.5 cd/m            LEDs/each optic 1            Light colour White            Required components:            C14446_FLORENTINA-SHD</p>		
<p><b>NICHIA</b></p> <p>LED NVSxx19B/NVSxx19C            FWHM / FWTM 22.0° / 43.0°            Efficiency 82 %            Peak intensity 4.3 cd/m            LEDs/each optic 1            Light colour White            Required components:            C14446_FLORENTINA-SHD</p>		

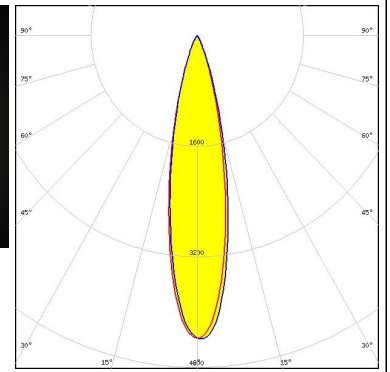
#### PHOTOMETRIC DATA (MEASURED):

<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSLON Square EC</p> <p>FWHM / FWTM 21.0° / 40.0°</p> <p>Efficiency 82 %</p> <p>Peak intensity 4.9 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C14446_FLORENTINA-SHD</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSLON SSL 150</p> <p>FWHM / FWTM 20.0° / 36.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 5.8 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSLON SSL 150</p> <p>FWHM / FWTM 20.0° / 35.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 6.1 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C14446_FLORENTINA-SHD</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSLON SSL 80</p> <p>FWHM / FWTM 20.0° / 38.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 5.4 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C14446_FLORENTINA-SHD</p>		

#### PHOTOMETRIC DATA (MEASURED):

#### SAMSUNG

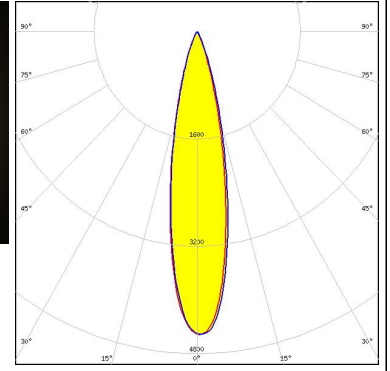
LED LH351B  
 FWHM / FWTM 22.0° / 43.0°  
 Efficiency 84 %  
 Peak intensity 4.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14446\_FLORENTINA-SHD



#### TOSHIBA

Leading Innovation >>>

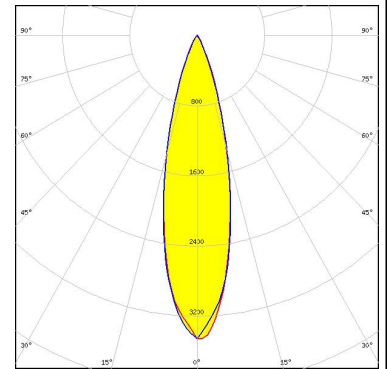
LED TL1L4  
 FWHM / FWTM 22.0° / 42.0°  
 Efficiency 81 %  
 Peak intensity 4.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14446\_FLORENTINA-SHD



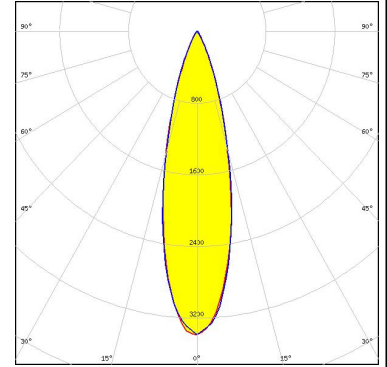
#### PHOTOMETRIC DATA (SIMULATED):



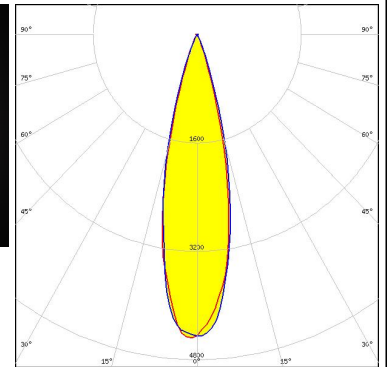
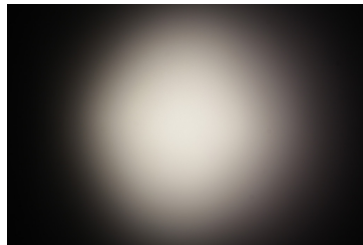
LED J Series 3030  
 FWHM / FWTM 26.0° / 48.0°  
 Efficiency 84 %  
 Peak intensity 3.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14446\_FLORENTINA-SHD



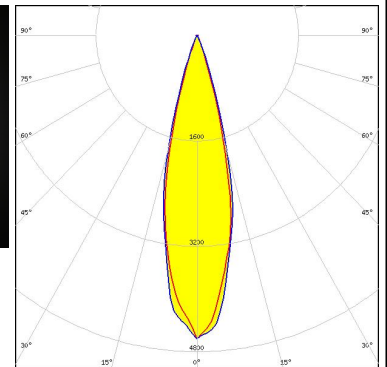
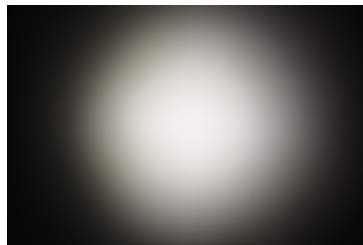
LED J Series 3030  
 FWHM / FWTM 26.0° / 50.0°  
 Efficiency 89 %  
 Peak intensity 3.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED XQ-E HD  
 FWHM / FWTM 25.0° / 41.0°  
 Efficiency 89 %  
 Peak intensity 4.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14446\_FLORENTINA-SHD



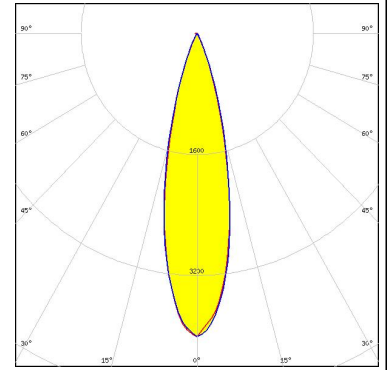
LED XQ-E HI  
 FWHM / FWTM 26.0° / 40.0°  
 Efficiency 89 %  
 Peak intensity 4.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14446\_FLORENTINA-SHD



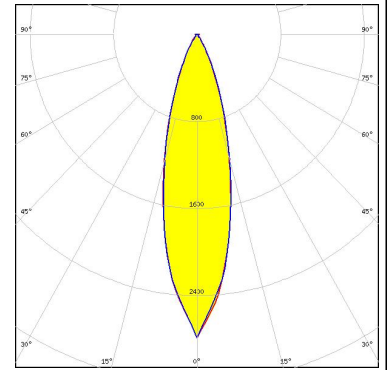
#### PHOTOMETRIC DATA (SIMULATED):



**LED** NVSxE21A  
**FWHM / FWTM** 25.0° / 45.0°  
**Efficiency** 86 %  
**Peak intensity** 4.9 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**  
 C14446\_FLORENTINA-SHD



**LED** NWSx229A  
**FWHM / FWTM** 27.0° / 54.0°  
**Efficiency** 84 %  
**Peak intensity** 2.8 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.

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#### Local sales and technical support

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