

## FLORENTINA-HLD-RS

~10° real spot beam

### TECHNICAL SPECIFICATIONS:

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

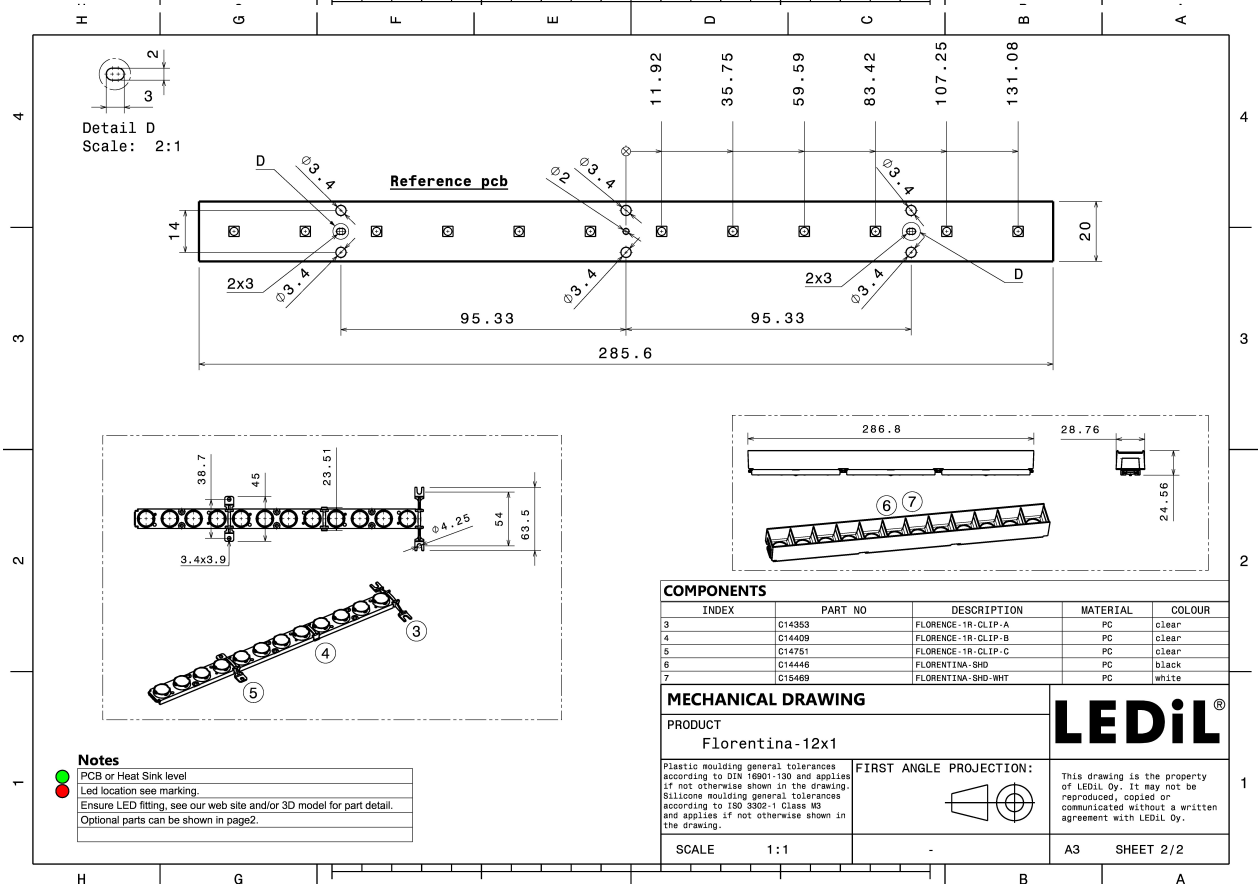
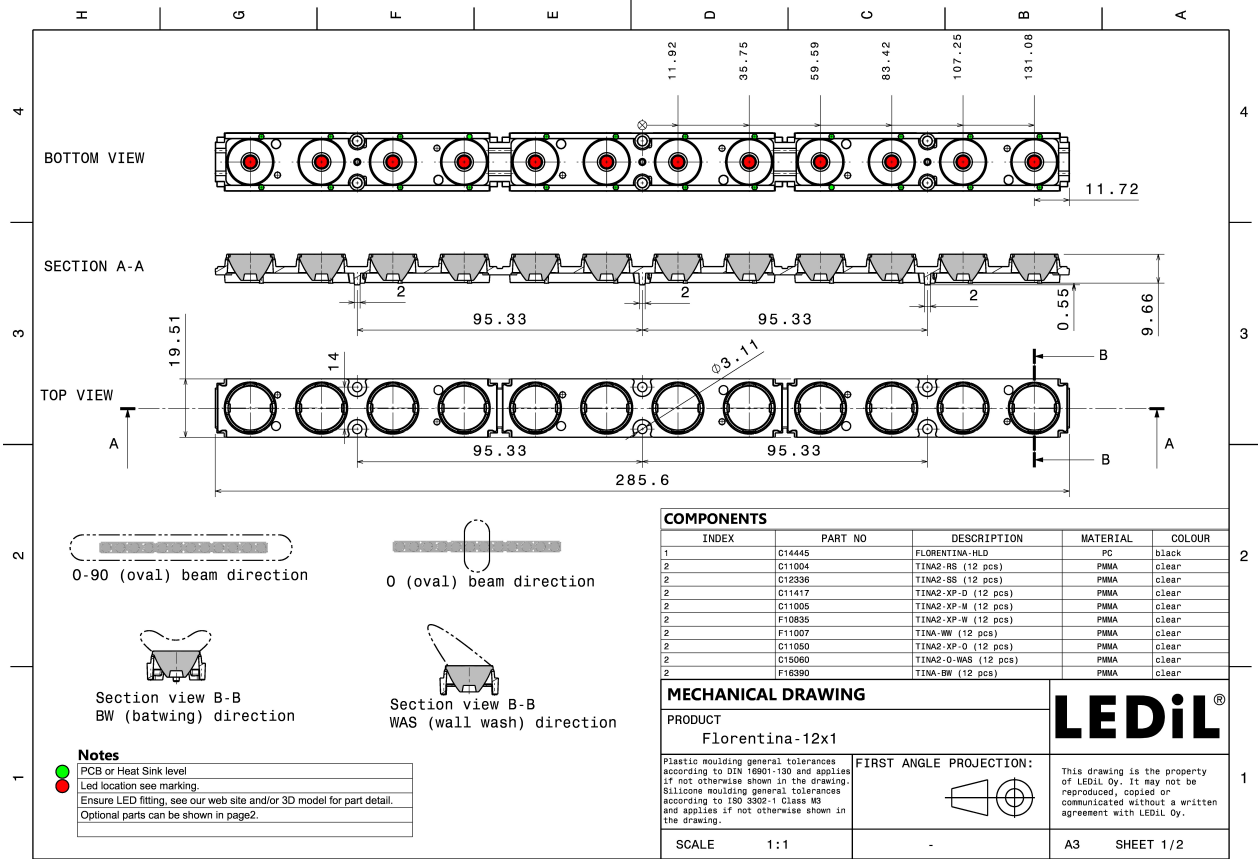
### MATERIAL SPECIFICATIONS:

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



### ORDERING INFORMATION:

Component	Type	Qty in box	MOQ	MPQ	Box weight (kg)
CP14866_FLORENTINA-HLD-RS » Box size: 398 x 298 x 140 mm	Single lens	160	32	16	5.2

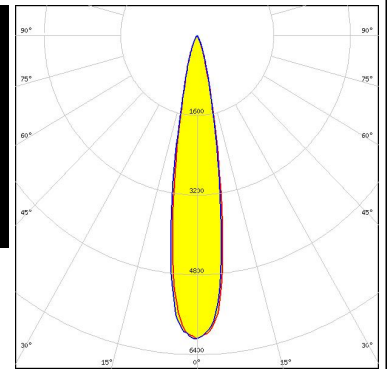


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

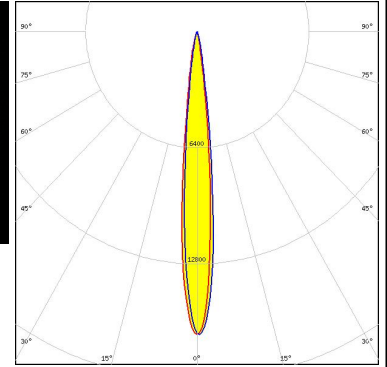
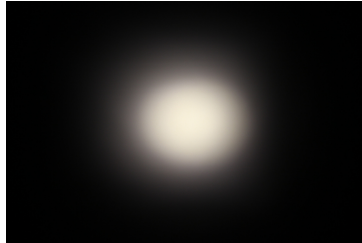
#### PHOTOMETRIC DATA (MEASURED):



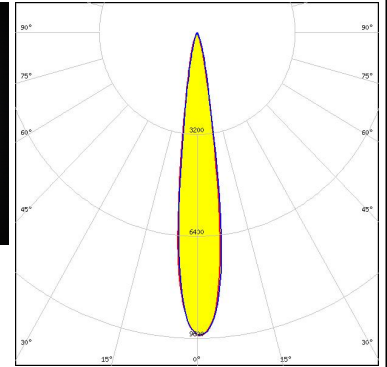
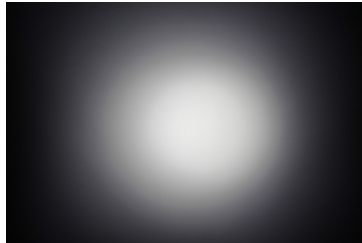
**LED** QUICK FLUX LED FL-XG 1x12 xxx  
**FWHM / FWTM** 18.0° / 35.0°  
**Efficiency** 84 %  
**Peak intensity** 6.1 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**  
 C14446\_FLORENTINA-SHD



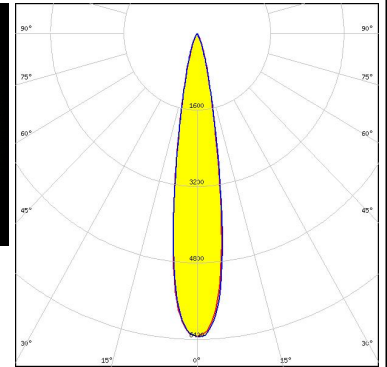
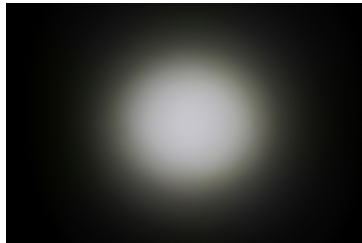
**LED** XP-E2  
**FWHM / FWTM** 11.0° / 21.0°  
**Efficiency** 84 %  
**Peak intensity** 16.7 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**  
 C14446\_FLORENTINA-SHD



**LED** XP-G2  
**FWHM / FWTM** 15.0° / 28.0°  
**Efficiency** 86 %  
**Peak intensity** 9.5 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**  
 C14446\_FLORENTINA-SHD



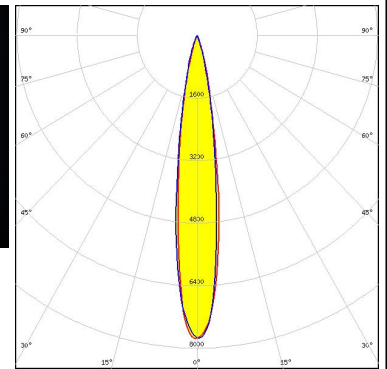
**LED** XP-G3  
**FWHM / FWTM** 18.0° / 35.0°  
**Efficiency** 84 %  
**Peak intensity** 6.4 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**  
 C14446\_FLORENTINA-SHD



#### PHOTOMETRIC DATA (MEASURED):

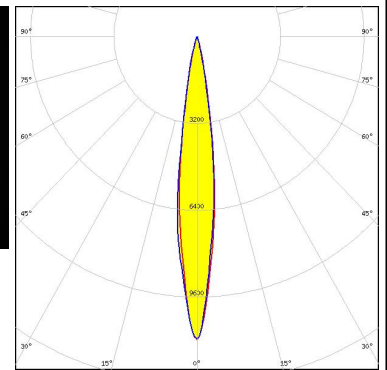
#### LUMILEDS

LED LUXEON Rebel ES  
 FWHM / FWTM 16.0° / 32.0°  
 Efficiency 82 %  
 Peak intensity 7.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14446\_FLORENTINA-SHD



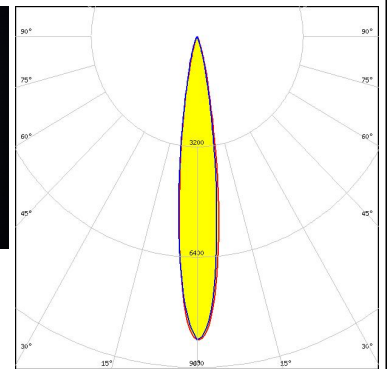
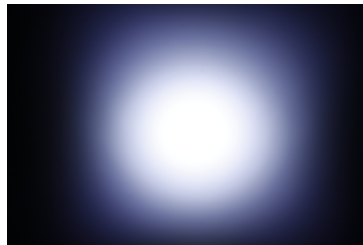
#### LUMILEDS

LED LUXEON Rebel Plus  
 FWHM / FWTM 14.0° / 26.0°  
 Efficiency 82 %  
 Peak intensity 11.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14446\_FLORENTINA-SHD



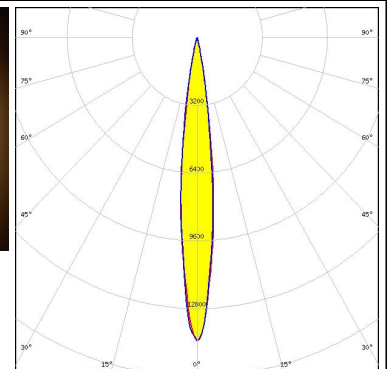
#### LUMILEDS

LED LUXEON TX  
 FWHM / FWTM 15.0° / 30.0°  
 Efficiency 83 %  
 Peak intensity 8.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14446\_FLORENTINA-SHD


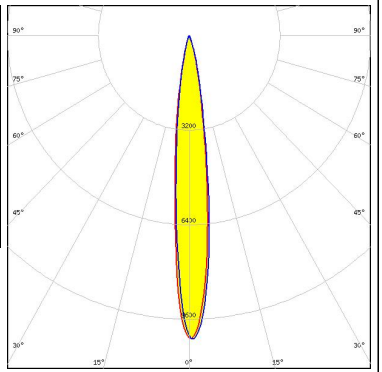
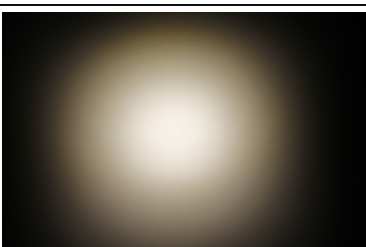
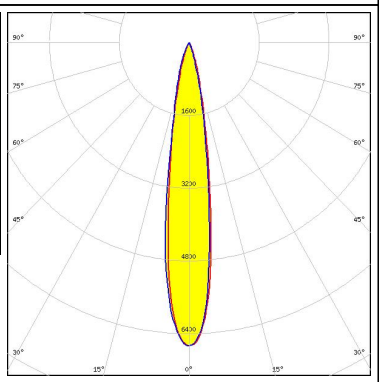
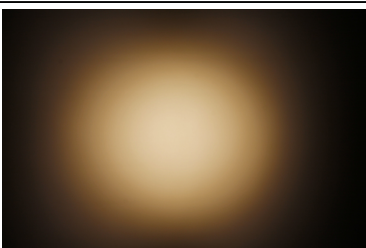
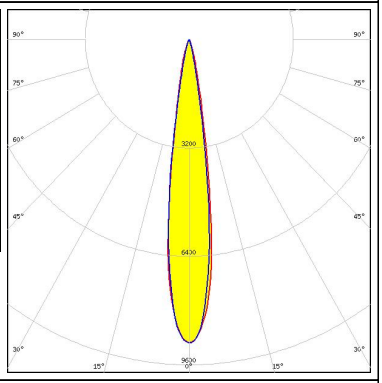
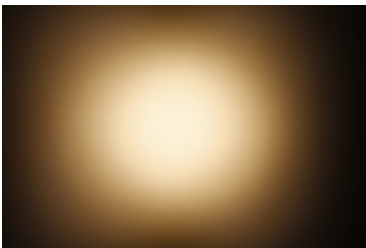
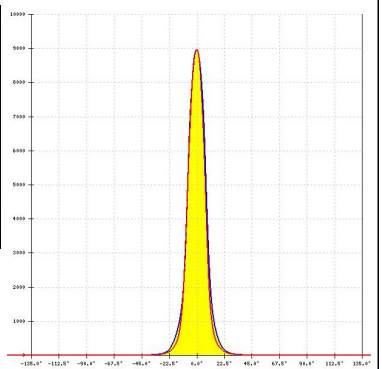


#### LUMILEDS


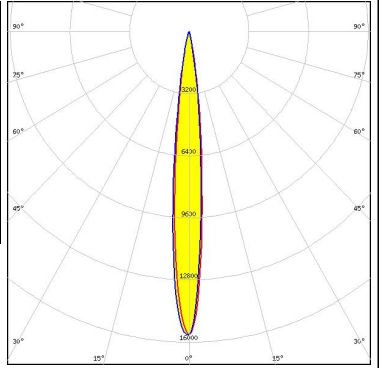

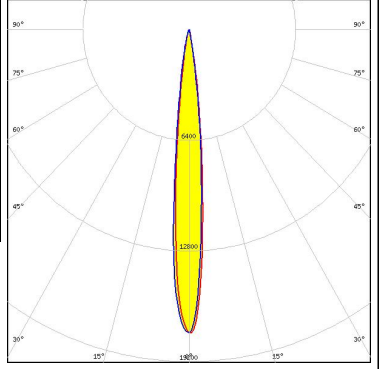
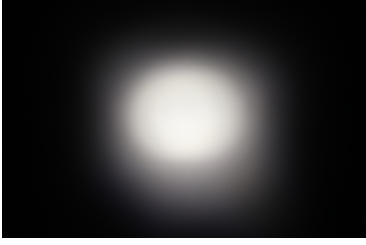
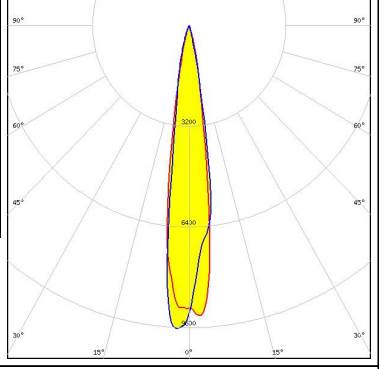

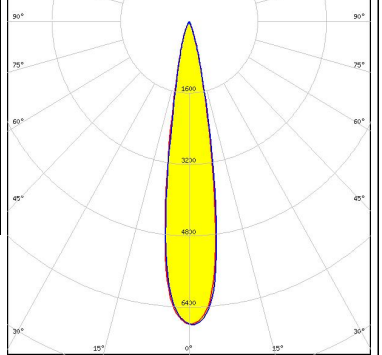
LED LUXEON Z ES  
 FWHM / FWTM 13.0° / 24.0°  
 Efficiency 84 %  
 Peak intensity 14.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14446\_FLORENTINA-SHD



#### PHOTOMETRIC DATA (MEASURED):

<p><b>NICHIA</b></p> <p>LED NCSxx19B            FWHM / FWTM 13.0° / 28.0°            Efficiency 80 %            Peak intensity 10.3 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C14446_FLORENTINA-SHD</p>		
<p><b>NICHIA</b></p> <p>LED NVSxx19B/NVSxx19C            FWHM / FWTM 16.0° / 34.0°            Efficiency 79 %            Peak intensity 6.7 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C14446_FLORENTINA-SHD</p>		
<p><b>OSRAM</b>  <small>Opto Semiconductors</small></p> <p>LED OSLOM Square EC            FWHM / FWTM 15.0° / 28.0°            Efficiency 81 %            Peak intensity 9 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C14446_FLORENTINA-SHD</p>		
<p><b>OSRAM</b>  <small>Opto Semiconductors</small></p> <p>LED OSLOM Square EC            FWHM / FWTM 15.0° / 28.0°            Efficiency 81 %            Peak intensity 9 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C14446_FLORENTINA-SHD</p>		

#### PHOTOMETRIC DATA (MEASURED):

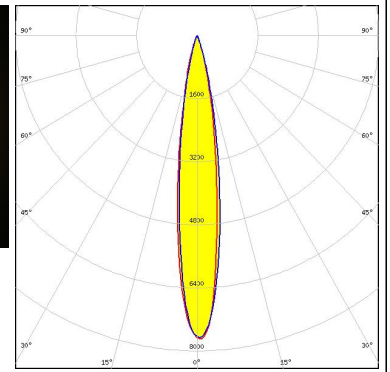
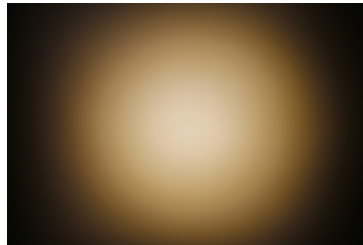
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSLON SSL 150</p> <p>FWHM / FWTM 11.0° / 22.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 15.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSLON SSL 150</p> <p>FWHM / FWTM 11.0° / 21.0°</p> <p>Efficiency 82 %</p> <p>Peak intensity 17.6 cd/lm</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 15.0° / 28.0°</p> <p>Efficiency 82 %</p> <p>Peak intensity 9.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C14446_FLORENTINA-SHD</p>		
<p><b>SAMSUNG</b></p> <p>LED LH351B</p> <p>FWHM / FWTM 18.0° / 33.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 6.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C14446_FLORENTINA-SHD</p>		

#### PHOTOMETRIC DATA (MEASURED):

#### TOSHIBA

Leading Innovation >>>

LED TL1L4  
FWHM / FWTM 16.0° / 33.0°  
Efficiency 82 %  
Peak intensity 7.7 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C14446\_FLORENTINA-SHD



#### PHOTOMETRIC DATA (SIMULATED):

<p><b>CREE LED</b></p> <p>LED J Series 3030            FWHM / FWTM 16.0° / 32.0°            Efficiency 88 %            Peak intensity 8.4 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C14446_FLORENTINA-SHD</p>	
<p><b>CREE LED</b></p> <p>LED J Series 3030            FWHM / FWTM 16.0° / 32.0°            Efficiency 91 %            Peak intensity 8.2 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>CREE LED</b></p> <p>LED XB-D White            FWHM / FWTM 12.0° / 26.0°            Efficiency 90 %            Peak intensity 13.3 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>CREE LED</b></p> <p>LED XD16            FWHM / FWTM 12.0° / 24.0°            Efficiency 89 %            Peak intensity 13.1 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	



#### PHOTOMETRIC DATA (SIMULATED):

<p><b>NICHIA</b></p> <p>LED: NCSxE17A            FWHM / FWTM: 11.0° / 22.0°            Efficiency: 88 %            Peak intensity: 22.4 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:            C14446_FLORENTINA-SHD</p>	
<p><b>NICHIA</b></p> <p>LED: NVSU119C            FWHM / FWTM: 16.0° / 30.0°            Efficiency: 92 %            LEDs/each optic: 1            Light colour: UV-A            Required components:</p>	
<p><b>NICHIA</b></p> <p>LED: NVSxE21A            FWHM / FWTM: 13.0° / 26.0°            Efficiency: 88 %            Peak intensity: 14.7 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:            C14446_FLORENTINA-SHD</p>	
<p><b>NICHIA</b></p> <p>LED: NWSx229A            FWHM / FWTM: 24.0° / 44.0°            Efficiency: 86 %            Peak intensity: 4 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:            C14446_FLORENTINA-SHD</p>	

#### PHOTOMETRIC DATA (SIMULATED):



#### 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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