

## FLORENTINA-HLD-O

~35° + 12° oval beam

### SPECIFICATION:

Dimensions	285.6 x 19.5 mm
Height	9.7 mm
Fastening	screw
ROHS compliant	yes ⓘ

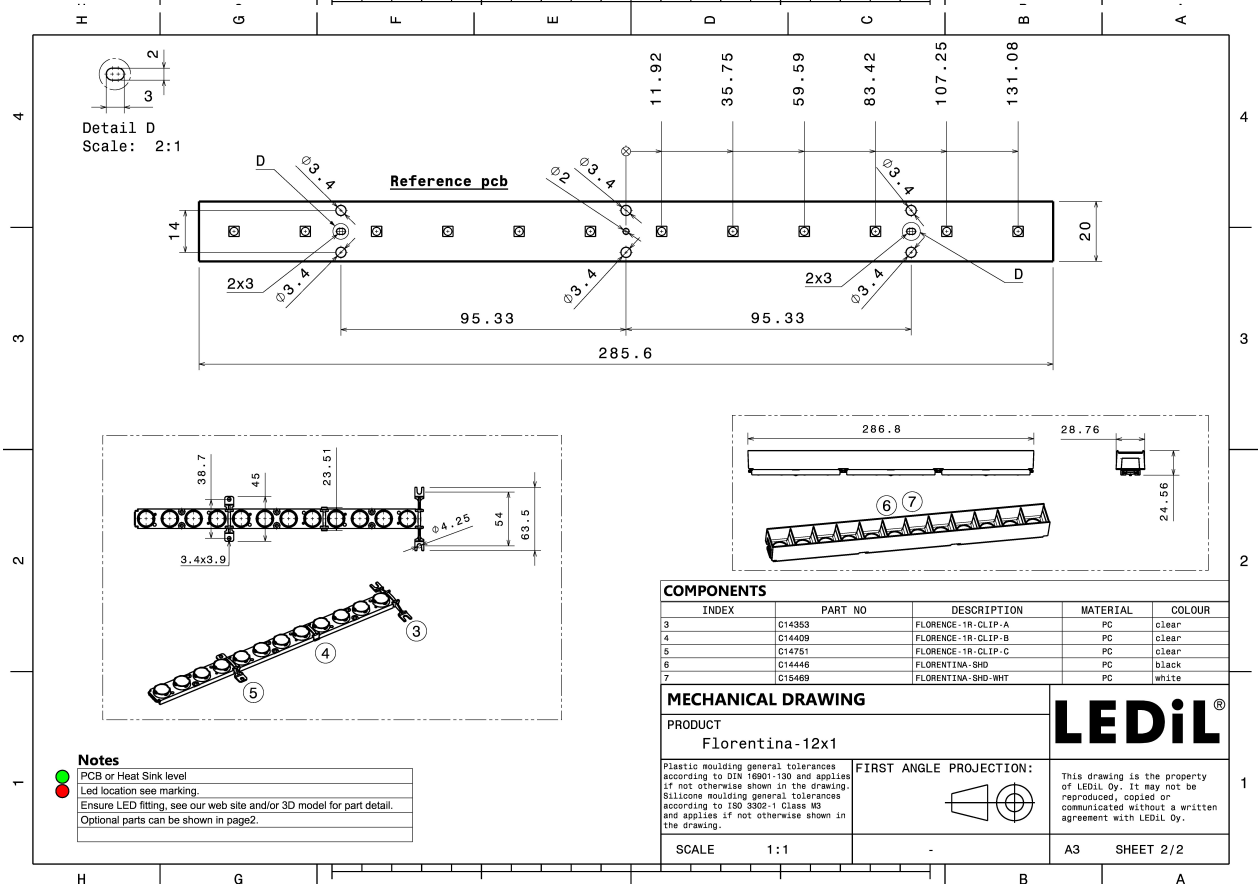
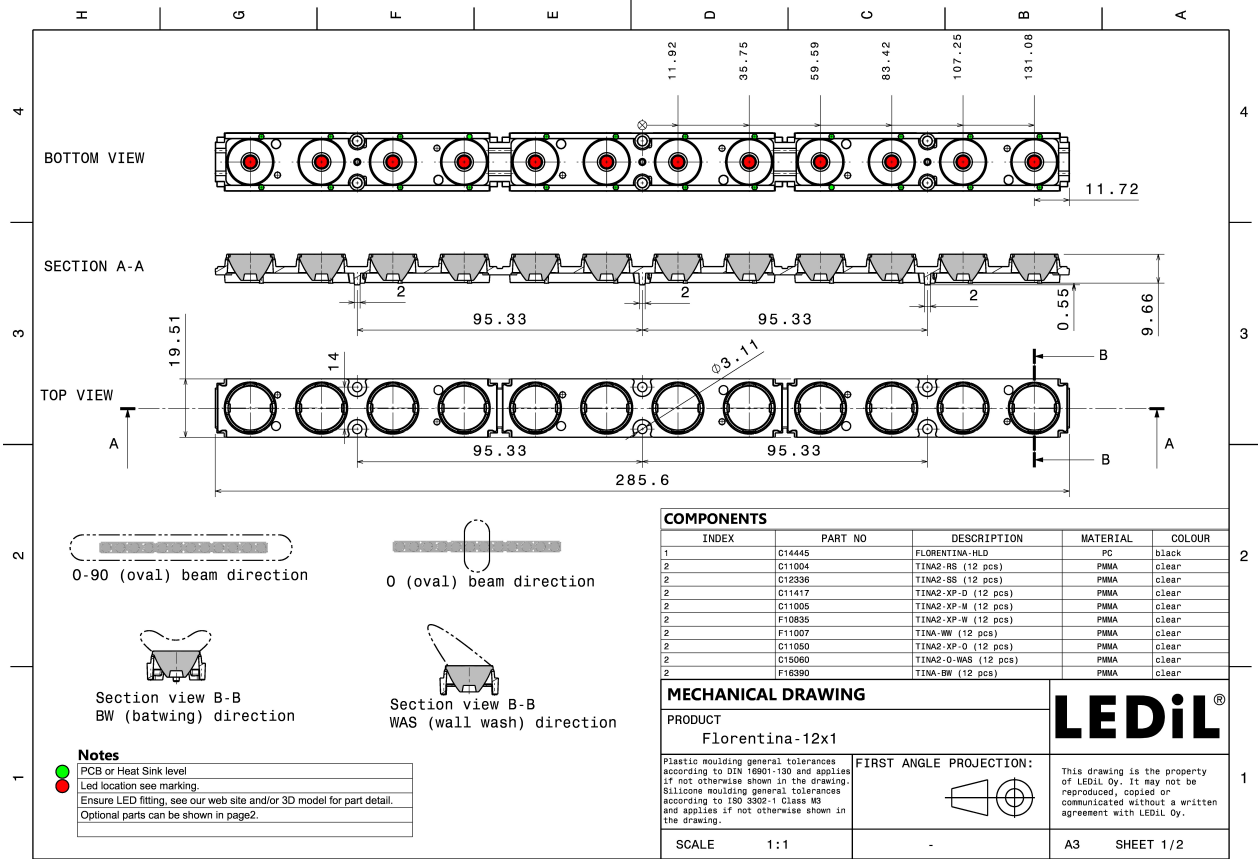
### MATERIALS:

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

### ORDERING INFORMATION:


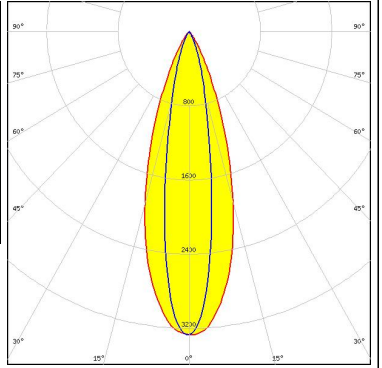

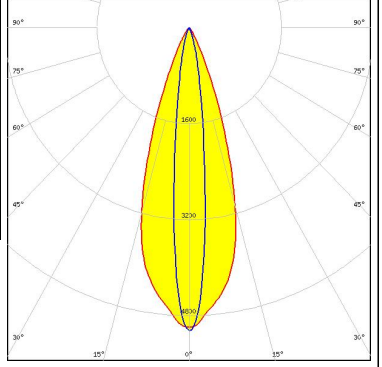

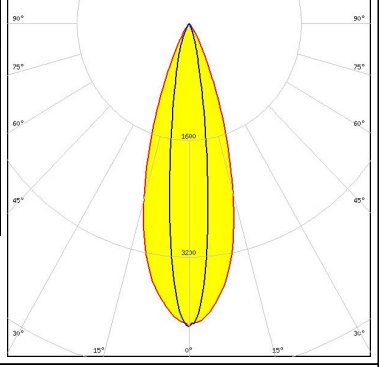

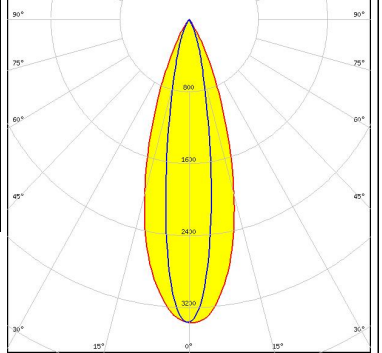
Component		Qty in box	MOQ	MPQ	Box weight (kg)
CP14995_FLORENTINA-HLD-O	Single lens	160	32	16	5.4
» Box size: 398 x 298 x 140 mm					





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

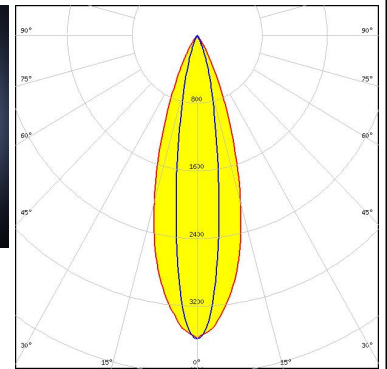
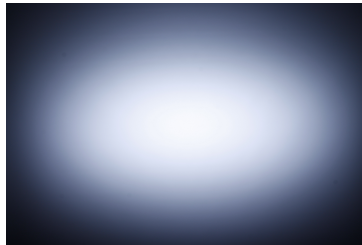
#### OPTICAL RESULTS (MEASURED):

<p><b>COMET ELECTRONICS</b></p> <p>LED QUICK FLUX LED FL-XG 1x12 xxx</p> <p>FWHM / FWTM 34.0 + 18.0° / 59.0 + 41.0°</p> <p>Efficiency 80 %</p> <p>Peak intensity 3.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C14446_FLORENTINA-SHD</p>		
<p><b>CREE LEDs</b></p> <p>LED XP-E2</p> <p>FWHM / FWTM 35.0 + 12.0° / 54.0 + 29.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 5.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C14446_FLORENTINA-SHD</p>		
<p><b>CREE LEDs</b></p> <p>LED XP-G2</p> <p>FWHM / FWTM 34.0 + 15.0° / 56.0 + 35.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 4.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C14446_FLORENTINA-SHD</p>		
<p><b>CREE LEDs</b></p> <p>LED XP-G3</p> <p>FWHM / FWTM 34.0 + 18.0° / 58.0 + 40.0°</p> <p>Efficiency 80 %</p> <p>Peak intensity 3.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C14446_FLORENTINA-SHD</p>		

#### OPTICAL RESULTS (MEASURED):

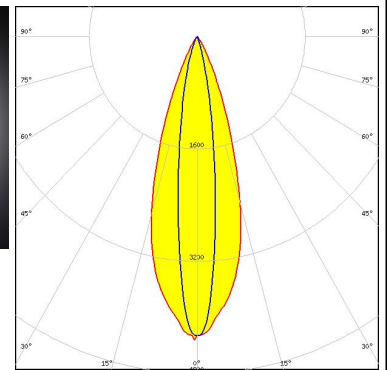
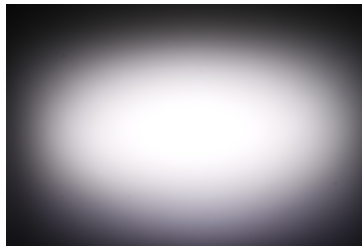
##### LUMILEDS

LED LUXEON Rebel ES  
 FWHM / FWTM 33.0 + 17.0° / 56.0 + 38.0°  
 Efficiency 79 %  
 Peak intensity 3.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14446\_FLORENTINA-SHD



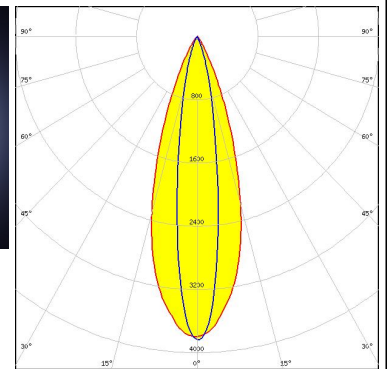
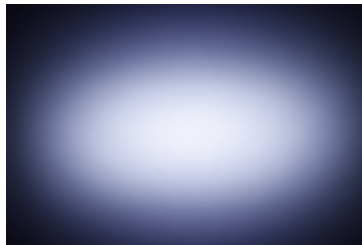
##### LUMILEDS

LED LUXEON Rebel Plus  
 FWHM / FWTM 33.0 + 15.0° / 55.0 + 33.0°  
 Efficiency 81 %  
 Peak intensity 4.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14446\_FLORENTINA-SHD



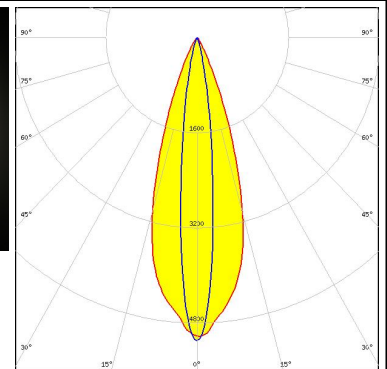
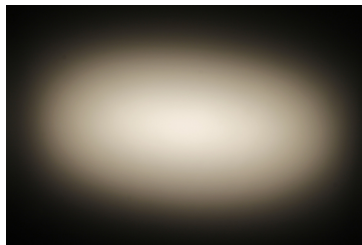
##### LUMILEDS

LED LUXEON TX  
 FWHM / FWTM 34.0 + 16.0° / 57.0 + 36.0°  
 Efficiency 81 %  
 Peak intensity 3.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14446\_FLORENTINA-SHD



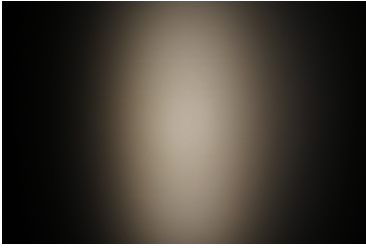
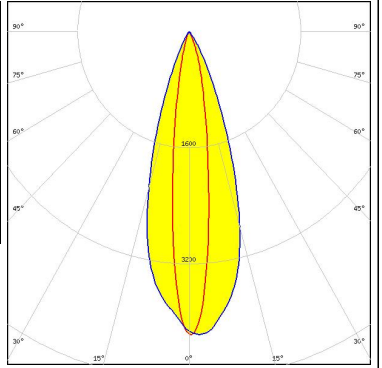
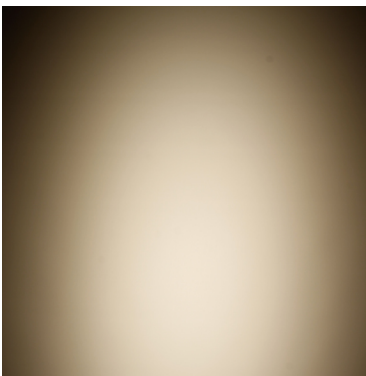
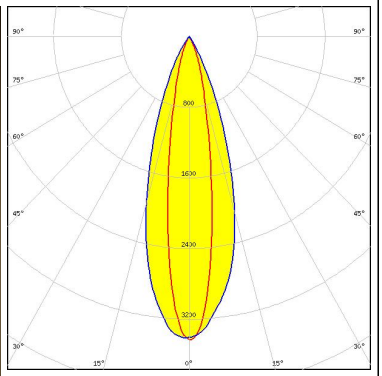

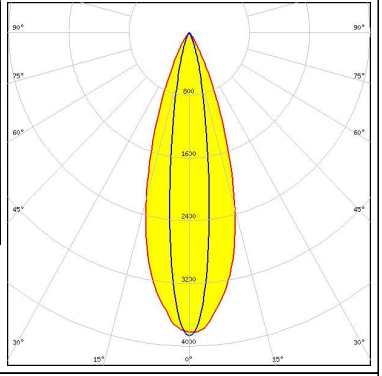
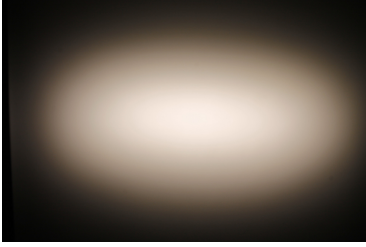
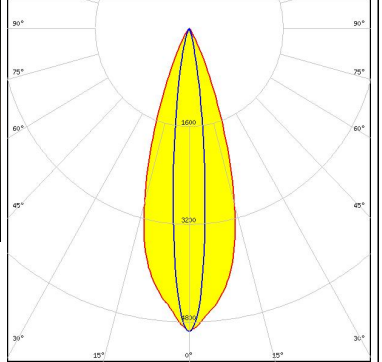
##### LUMILEDS

LED LUXEON Z ES  
 FWHM / FWTM 34.0 + 13.0° / 54.0 + 27.0°  
 Efficiency 82 %  
 Peak intensity 5.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14446\_FLORENTINA-SHD


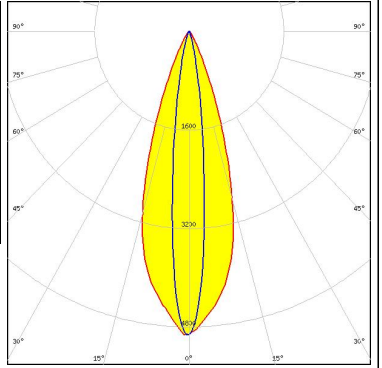

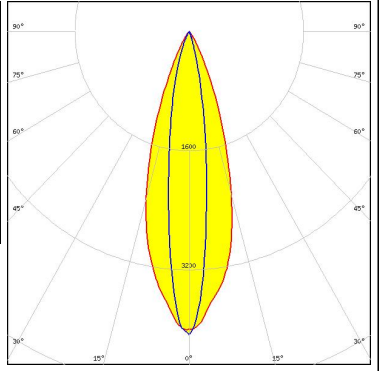
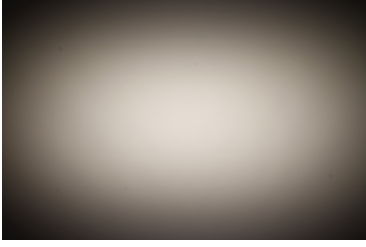
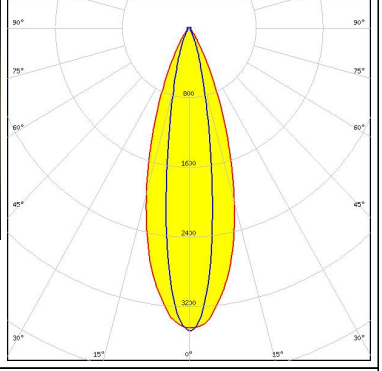
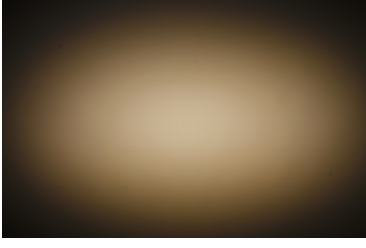
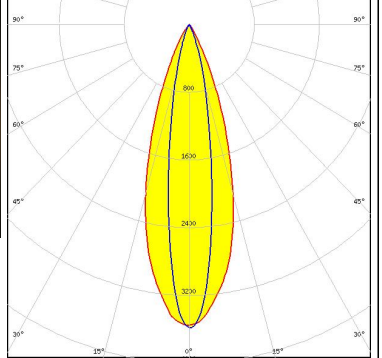




#### OPTICAL RESULTS (MEASURED):

<p><b>NICHIA</b></p> <p>LED NCSxx19B            FWHM / FWTM 34.0 + 14.0° / 55.0 + 33.0°            Efficiency 79 %            Peak intensity 4.2 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 34.0 + 17.0° / 58.0 + 39.0°            Efficiency 78 %            Peak intensity 3.4 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 34.0 + 15.0° / 57.0 + 35.0°            Efficiency 79 %            Peak intensity 3.9 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 SSL 150            FWHM / FWTM 34.0 + 12.0° / 54.0 + 27.0°            Efficiency 80 %            Peak intensity 5 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C14446_FLORENTINA-SHD</p>		

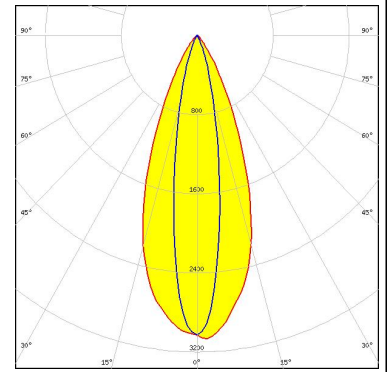
#### OPTICAL RESULTS (MEASURED):

<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSLON SSL 150</p> <p>FWHM / FWTM 34.0 + 12.0° / 54.0 + 27.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 4.9 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 80</p> <p>FWHM / FWTM 33.0 + 15.0° / 56.0 + 35.0°</p> <p>Efficiency 79 %</p> <p>Peak intensity 4.1 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 34.0 + 18.0° / 60.0 + 40.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 3.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C14446_FLORENTINA-SHD</p>		
<p><b>TOSHIBA</b> Leading Innovation &gt;&gt;&gt;</p> <p>LED TL1L4</p> <p>FWHM / FWTM 34.0 + 17.0° / 57.0 + 38.0°</p> <p>Efficiency 79 %</p> <p>Peak intensity 3.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C14446_FLORENTINA-SHD</p>		

#### OPTICAL RESULTS (SIMULATED):



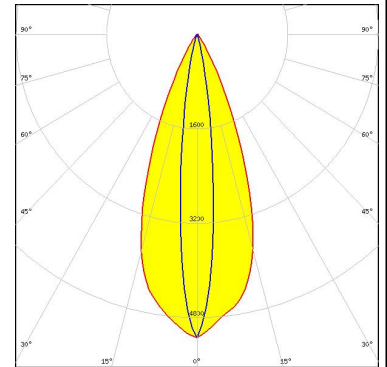
LED J Series 3030  
 FWHM / FWTM 40.0 + 18.0° / 68.0 + 40.0°  
 Efficiency 87 %  
 Peak intensity 3.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



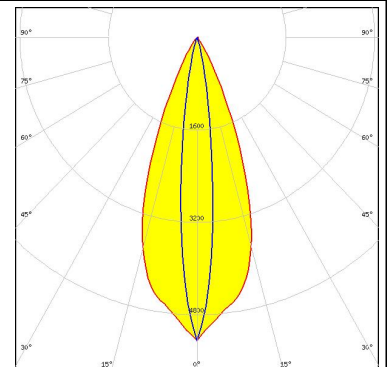
LED J Series 3030  
 FWHM / FWTM 40.0 + 18.0° / 64.0 + 38.0°  
 Efficiency 82 %  
 Peak intensity 3.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14446\_FLORENTINA-SHD



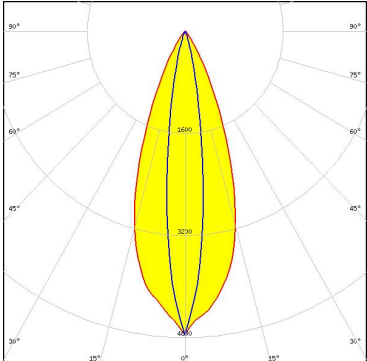
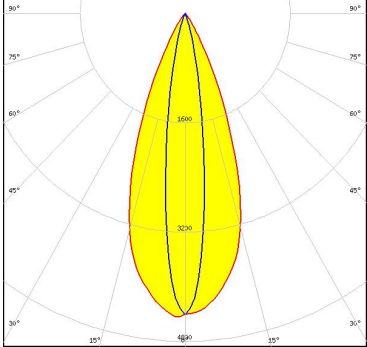
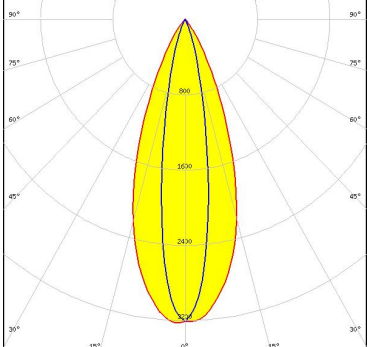
LED NCSxE17A  
 FWHM / FWTM 40.0 + 13.0° / 62.0 + 27.0°  
 Efficiency 94 %  
 Peak intensity 5.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED NCSxE17A  
 FWHM / FWTM 40.0 + 13.0° / 61.0 + 27.0°  
 Efficiency 94 %  
 Peak intensity 5.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14446\_FLORENTINA-SHD



#### OPTICAL RESULTS (SIMULATED):

<p><b>NICHIA</b></p> <p>LED: NVSxE21A            FWHM / FWTM: 38.0 + 14.0° / 64.0 + 31.0°            Efficiency: 94 %            Peak intensity: 4.8 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	
<p><b>NICHIA</b></p> <p>LED: NVSxE21A            FWHM / FWTM: 40.0 + 15.0° / 61.0 + 31.0°            Efficiency: 94 %            Peak intensity: 5.3 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:            C14446_FLORENTINA-SHD</p>	
<p><b>NICHIA</b></p> <p>LED: NVSxx19A            FWHM / FWTM: 39.0 + 18.0° / 66.0 + 38.0°            Efficiency: 84 %            Peak intensity: 3.2 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: 38.0 + 23.0° / 69.0 + 47.0°            Efficiency: 81 %            Peak intensity: 2.4 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:            C14446_FLORENTINA-SHD</p>	