

## FLORENTINA-HLD-O

~35° + 12° oval beam

### TECHNICAL SPECIFICATIONS:

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

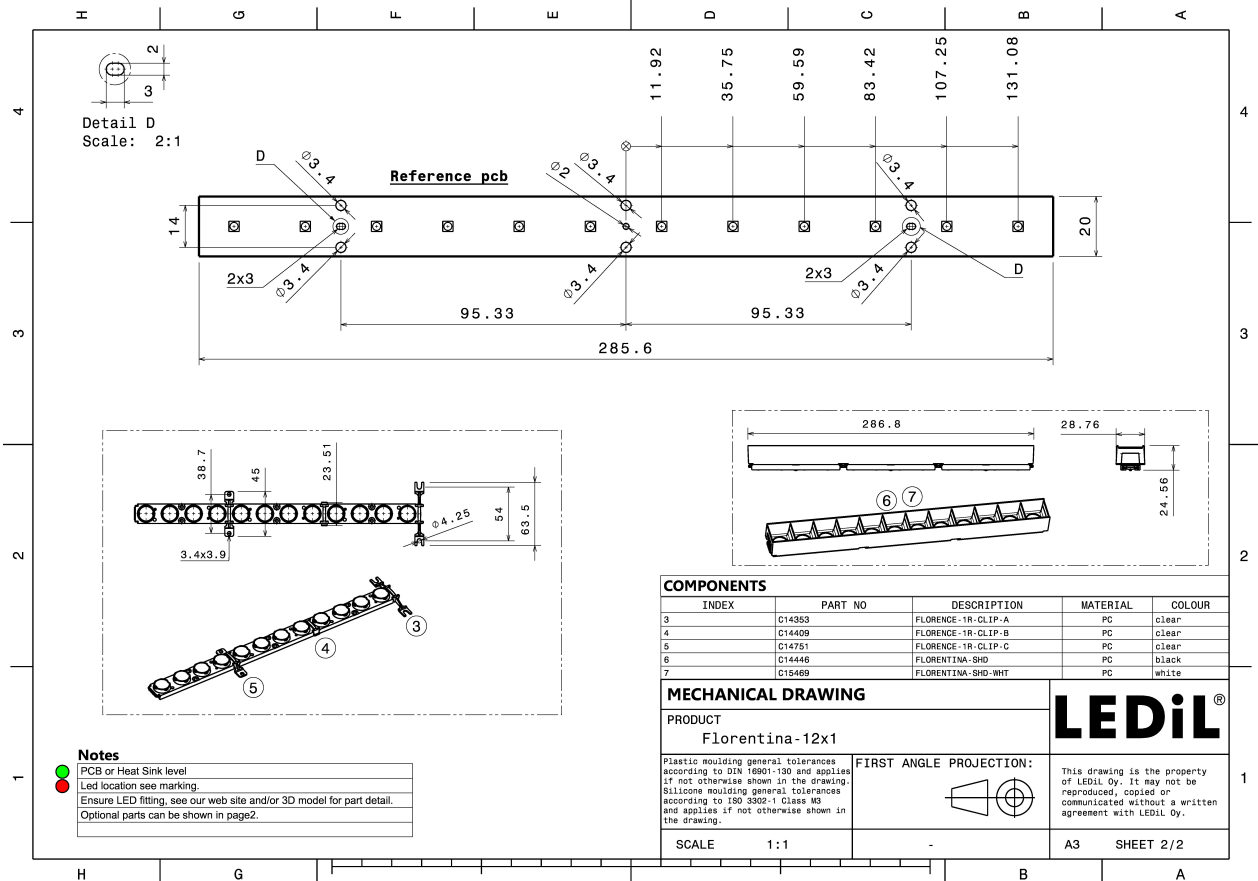
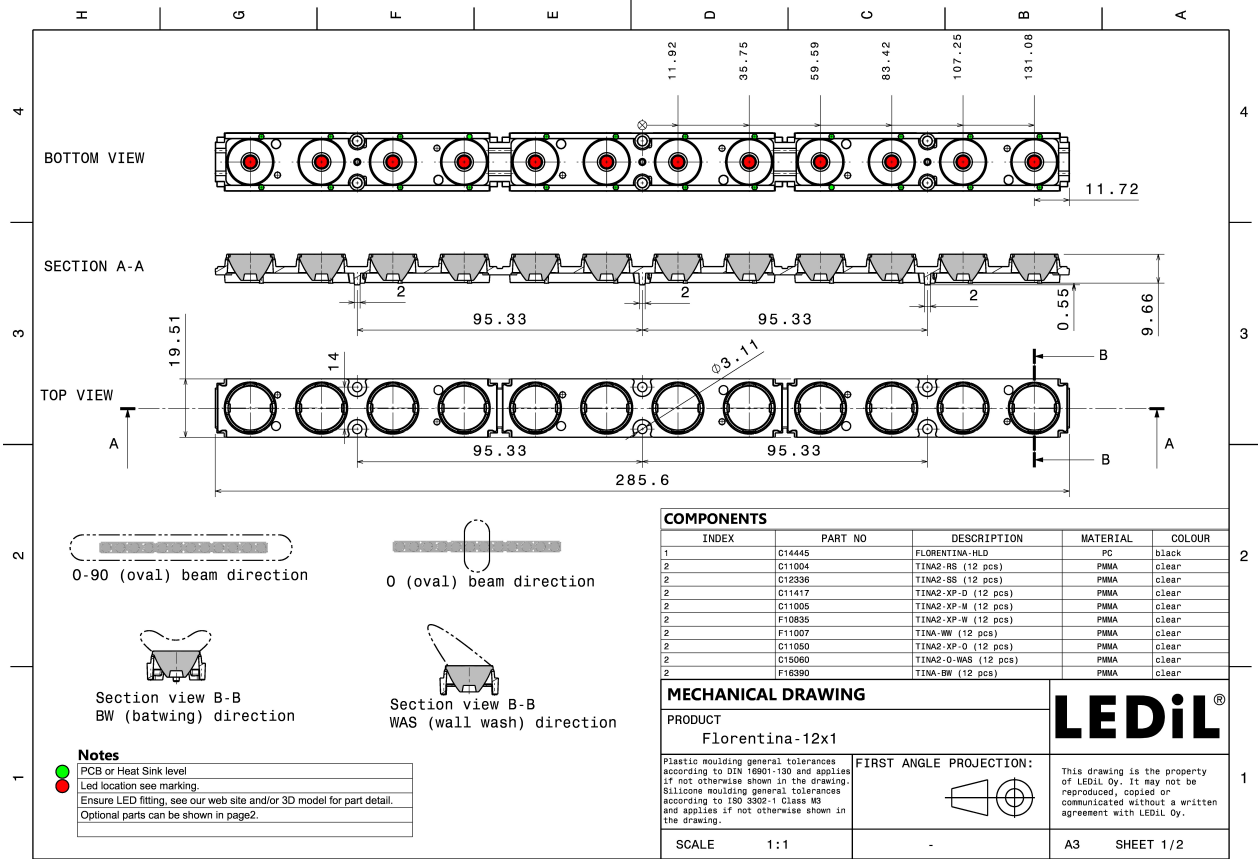
### MATERIAL SPECIFICATIONS:

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

### ORDERING INFORMATION:


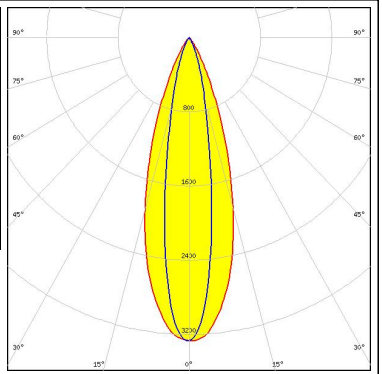

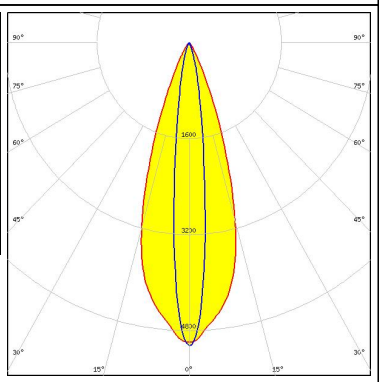

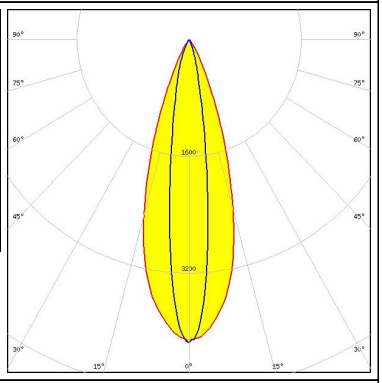

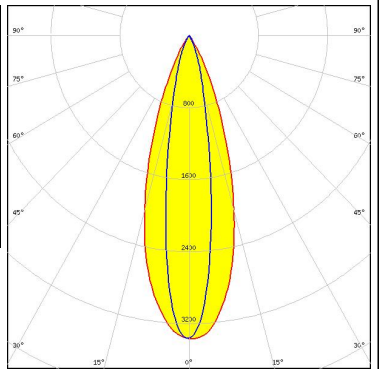
Component	Type	Qty in box	MOQ	MPQ	Box weight (kg)
CP14995_FLORENTINA-HLD-O » Box size: 398 x 298 x 140 mm	Single lens	160	32	16	5.4





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

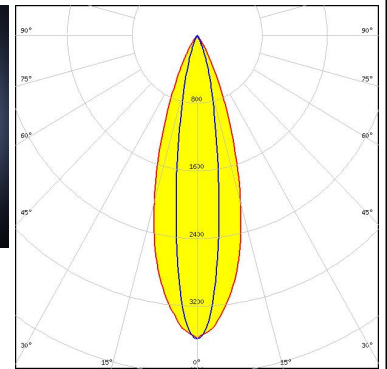
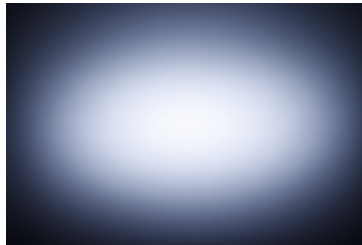
#### PHOTOMETRIC DATA (MEASURED):

<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/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C14446_FLORENTINA-SHD</p>		
<p><b>CREE LED</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/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C14446_FLORENTINA-SHD</p>		
<p><b>CREE LED</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/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C14446_FLORENTINA-SHD</p>		
<p><b>CREE LED</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/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C14446_FLORENTINA-SHD</p>		

#### PHOTOMETRIC DATA (MEASURED):

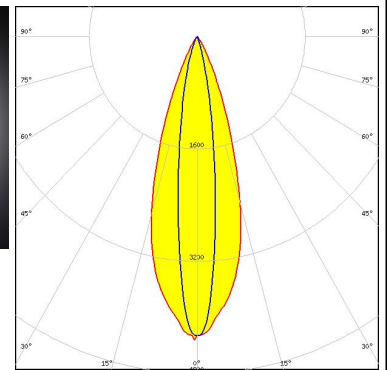
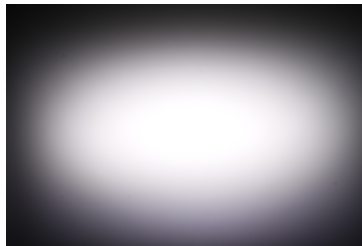
#### LUMILEDS

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



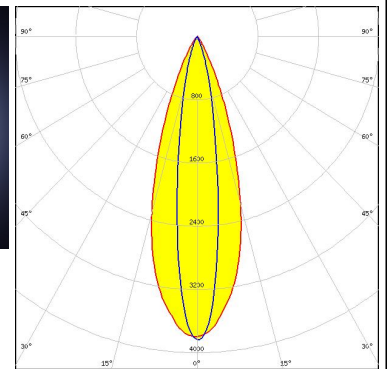
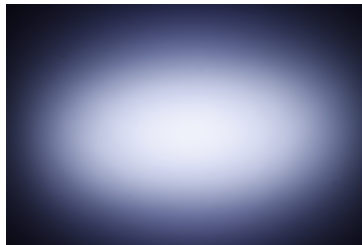
#### LUMILEDS

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



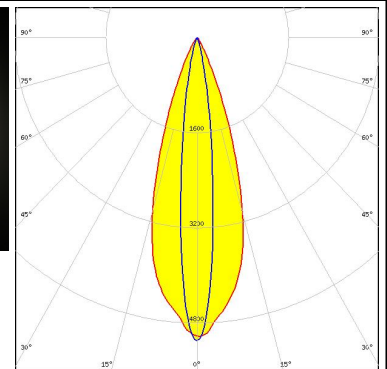
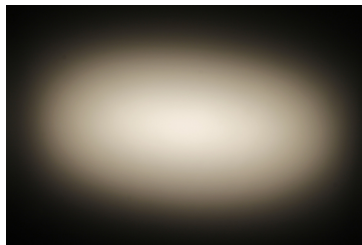
#### LUMILEDS

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


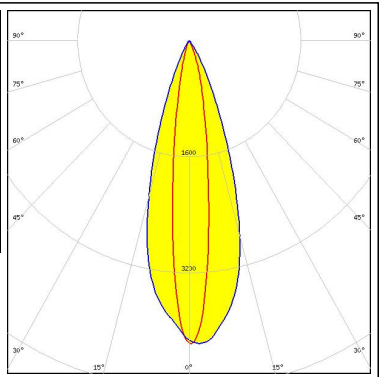
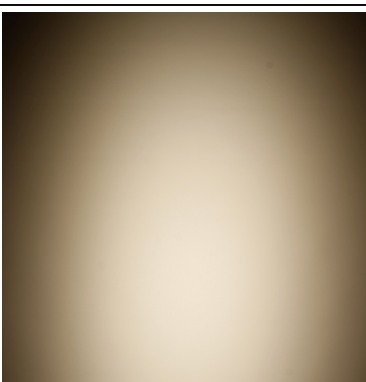
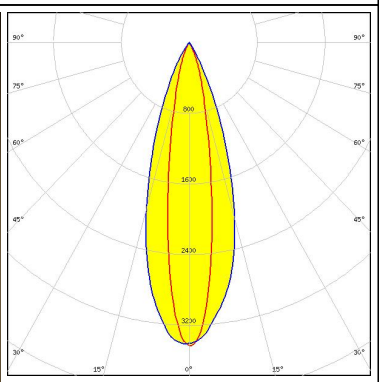

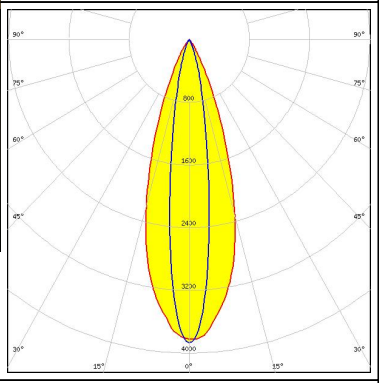

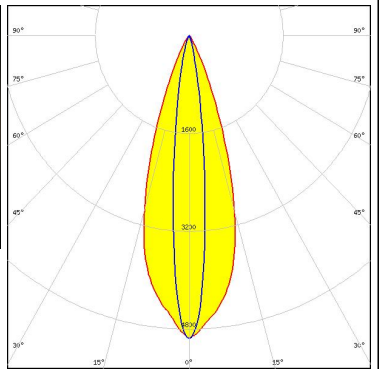


#### LUMILEDS

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



#### PHOTOMETRIC DATA (MEASURED):

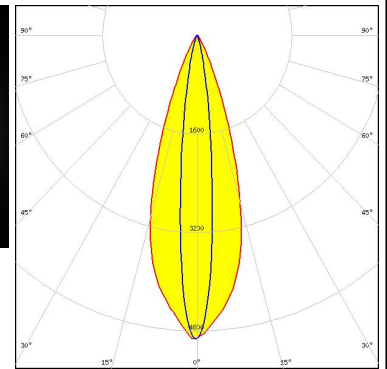
<p><b>NICHIA</b></p> <p>LED NCSxx19B            FWHM / FWTM 34.0 + 14.0° / 55.0 + 33.0°            Efficiency 79 %            Peak intensity 4.2 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C14446_FLORENTINA-SHD</p>		
<p><b>NICHIA</b></p> <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>		

#### PHOTOMETRIC DATA (MEASURED):

#### OSRAM

Opto Semiconductors

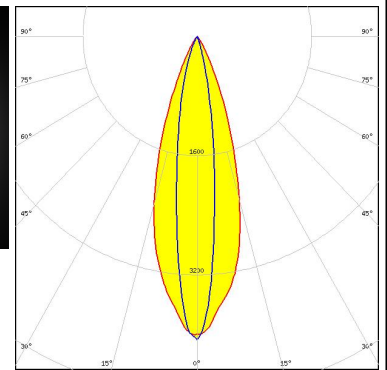
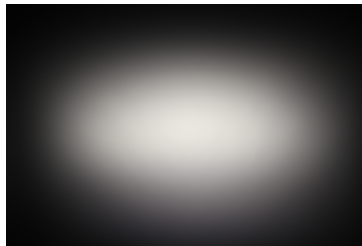
LED OSLON SSL 150  
 FWHM / FWTM 34.0 + 12.0° / 54.0 + 27.0°  
 Efficiency 84 %  
 Peak intensity 4.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OSRAM

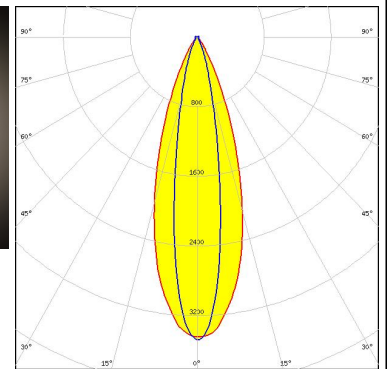
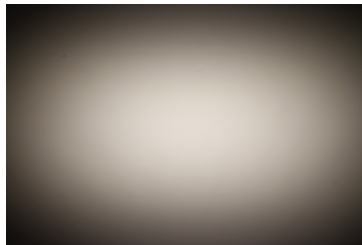
Opto Semiconductors

LED OSLON SSL 80  
 FWHM / FWTM 33.0 + 15.0° / 56.0 + 35.0°  
 Efficiency 79 %  
 Peak intensity 4.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14446\_FLORENTINA-SHD



#### SAMSUNG

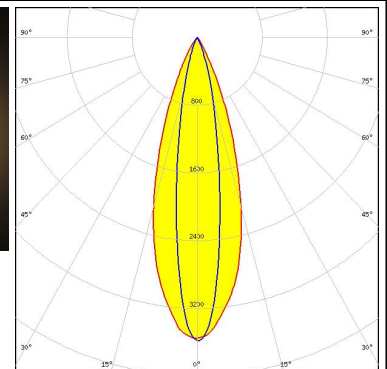
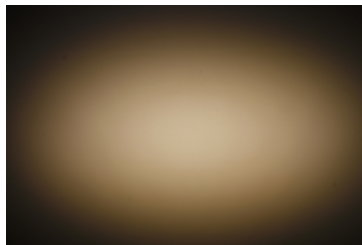
LED LH351B  
 FWHM / FWTM 34.0 + 18.0° / 60.0 + 40.0°  
 Efficiency 94 %  
 Peak intensity 3.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14446\_FLORENTINA-SHD



#### TOSHIBA

Leading Innovation >>>

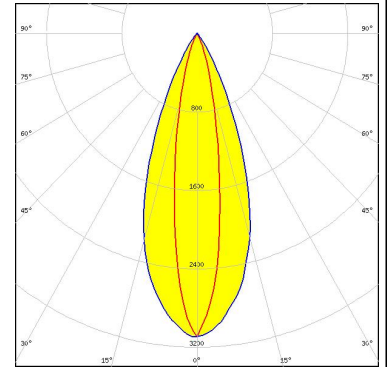
LED TL1L4  
 FWHM / FWTM 34.0 + 17.0° / 57.0 + 38.0°  
 Efficiency 79 %  
 Peak intensity 3.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14446\_FLORENTINA-SHD



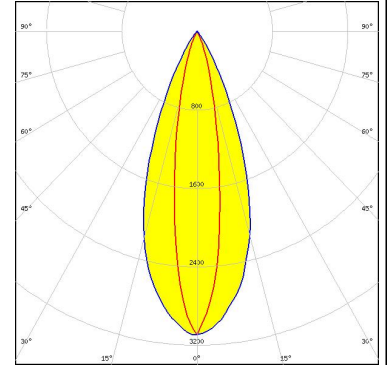
#### PHOTOMETRIC DATA (SIMULATED):



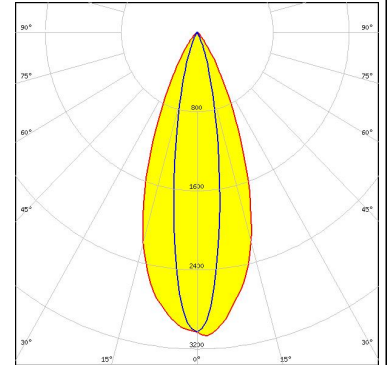
LED J Series 3030  
 FWHM / FWTM 18.0 + 40.0° / 38.0 + 64.0°  
 Efficiency 82 %  
 Peak intensity 3.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14446\_FLORENTINA-SHD



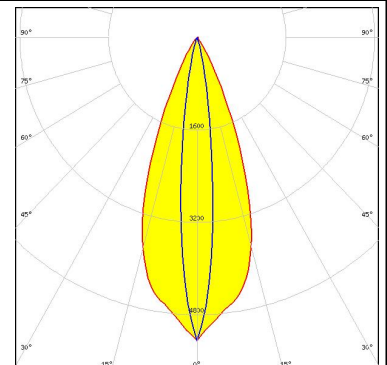
LED J Series 3030  
 FWHM / FWTM 40.0 + 18.0° / 64.0 + 38.0°  
 Efficiency 82 %  
 Peak intensity 3.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14446\_FLORENTINA-SHD



LED 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 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



#### PHOTOMETRIC DATA (SIMULATED):

<p><b>NICHIA</b></p> <p>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:</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: 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: 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>	



#### 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:

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