

## FLORENTINA-HLD-D

~18° diffused 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-XP-D	Single lens	PMMA	clear	
FLORENTINA-HLD	Holder	PC	black	


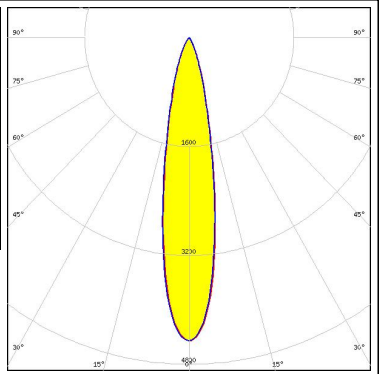

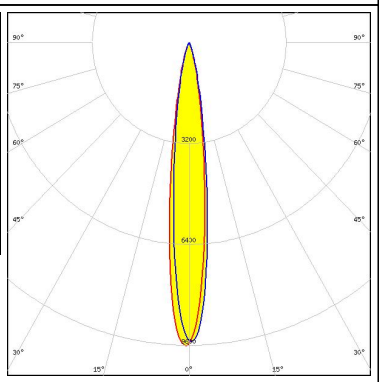

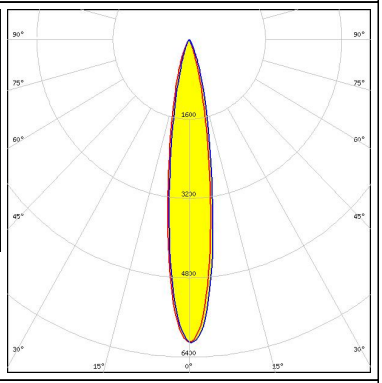

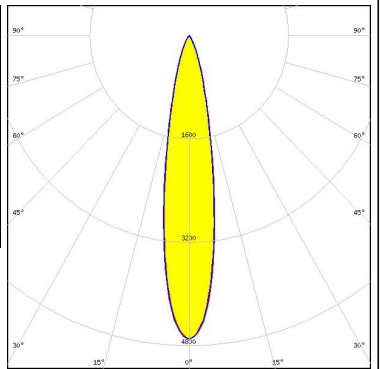
### ORDERING INFORMATION:

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					





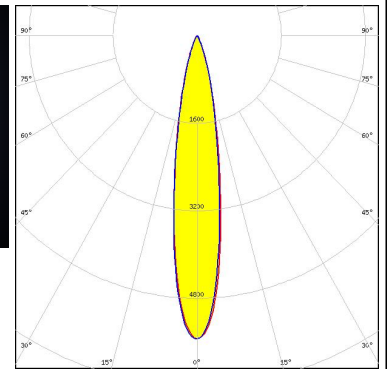
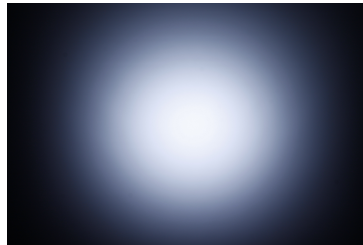
#### PHOTOMETRIC DATA (MEASURED):

<p><b>COMET</b> ELECTRONICS</p> <p>LED QUICK FLUX LED FL-XG 1x12 xxx</p> <p>FWHM / FWTM 20.0° / 43.0°</p> <p>Efficiency 81 %</p> <p>Peak intensity 4.5 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C14446_FLORENTINA-SHD</p>		
<p><b>CREE</b></p> <p>LED XP-E2</p> <p>FWHM / FWTM 13.0° / 30.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 9.6 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C14446_FLORENTINA-SHD</p>		
<p><b>CREE</b></p> <p>LED XP-G2</p> <p>FWHM / FWTM 17.0° / 37.0°</p> <p>Efficiency 82 %</p> <p>Peak intensity 6.2 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C14446_FLORENTINA-SHD</p>		
<p><b>CREE</b></p> <p>LED XP-G3</p> <p>FWHM / FWTM 19.0° / 42.0°</p> <p>Efficiency 81 %</p> <p>Peak intensity 4.7 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C14446_FLORENTINA-SHD</p>		

#### PHOTOMETRIC DATA (MEASURED):

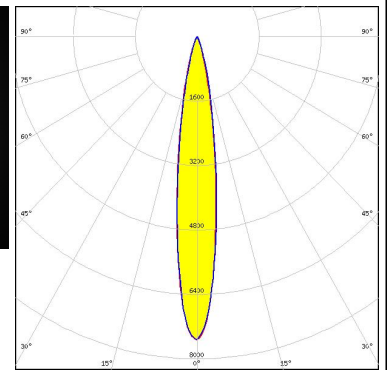
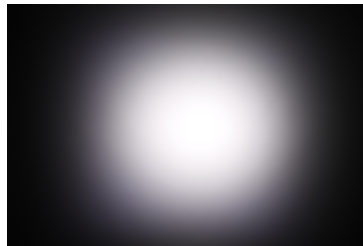
#### LUMILEDS

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



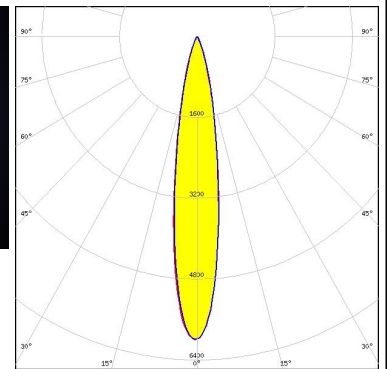
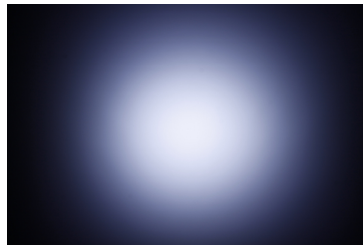
#### LUMILEDS

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



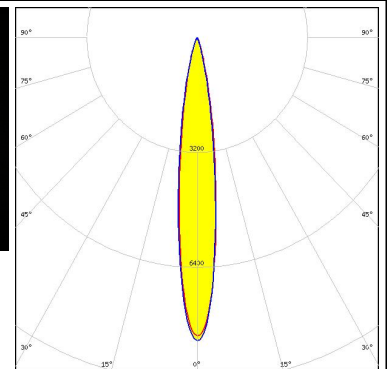
#### LUMILEDS

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


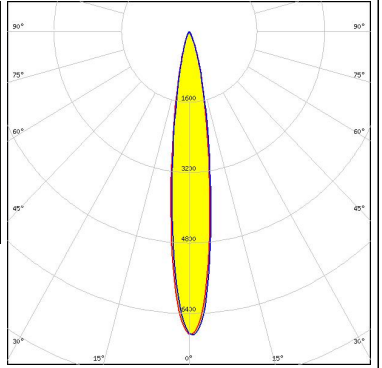
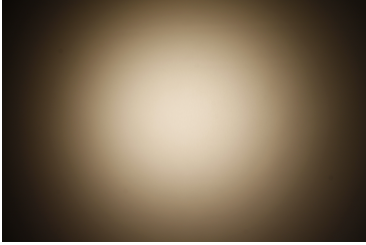
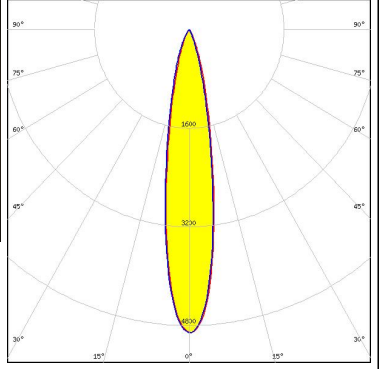

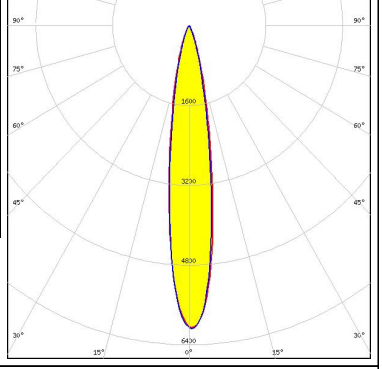

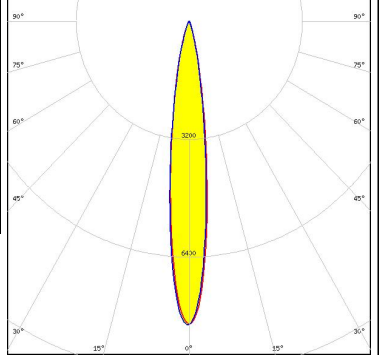


#### LUMILEDS

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



### PHOTOMETRIC DATA (MEASURED):

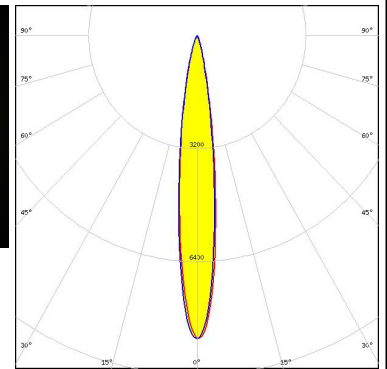
<p><b>NICHIA</b></p> <p>LED NCSxx19B            FWHM / FWTM 15.0° / 34.0°            Efficiency 79 %            Peak intensity 6.9 cd/m            LEDs/each optic 1            Light colour White            Required components:            C14446_FLORENTINA-SHD</p>		
<p><b>NICHIA</b></p> <p>LED NVSxx19B/NVSxx19C            FWHM / FWTM 19.0° / 40.0°            Efficiency 78 %            Peak intensity 4.9 cd/m            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 17.0° / 37.0°            Efficiency 80 %            Peak intensity 6.1 cd/m            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 14.0° / 31.0°            Efficiency 84 %            Peak intensity 8.2 cd/m            LEDs/each optic 1            Light colour White            Required components:</p>		

#### PHOTOMETRIC DATA (MEASURED):

#### OSRAM

Opto Semiconductors

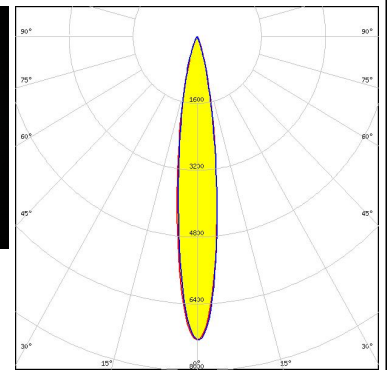
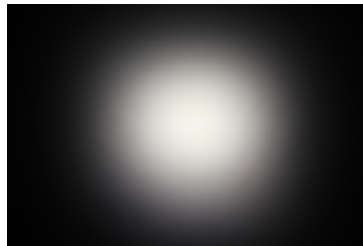
LED OSLON SSL 150  
 FWHM / FWTM 14.0° / 30.0°  
 Efficiency 80 %  
 Peak intensity 8.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14446\_FLORENTINA-SHD



#### OSRAM

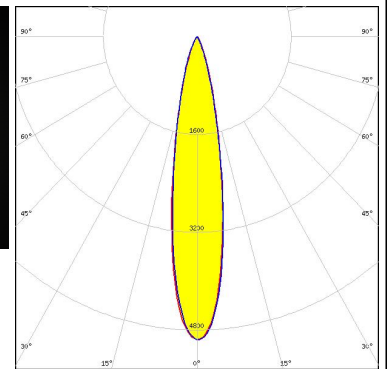
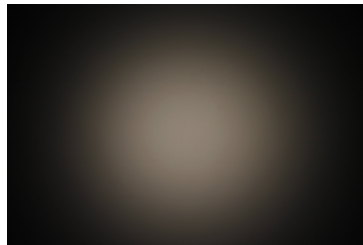
Opto Semiconductors

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



#### SAMSUNG

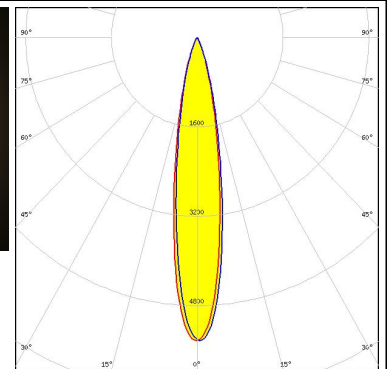
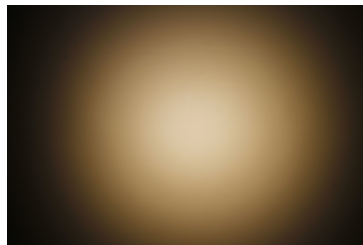
LED LH351B  
 FWHM / FWTM 20.0° / 41.0°  
 Efficiency 82 %  
 Peak intensity 5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14446\_FLORENTINA-SHD



#### TOSHIBA

Leading Innovation >>>

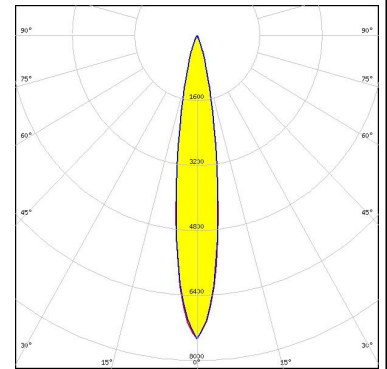
LED TL1L4  
 FWHM / FWTM 18.0° / 39.0°  
 Efficiency 80 %  
 Peak intensity 5.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14446\_FLORENTINA-SHD



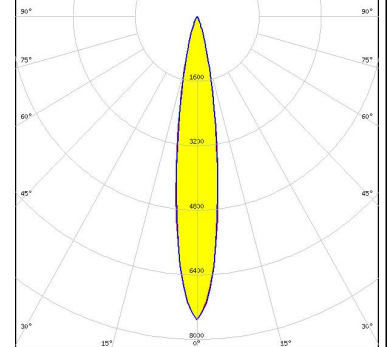
#### PHOTOMETRIC DATA (SIMULATED):



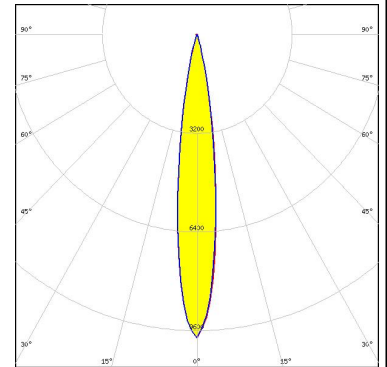
LED J Series 3030  
 FWHM / FWTM 16.0° / 34.0°  
 Efficiency 88 %  
 Peak intensity 7.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14446\_FLORENTINA-SHD



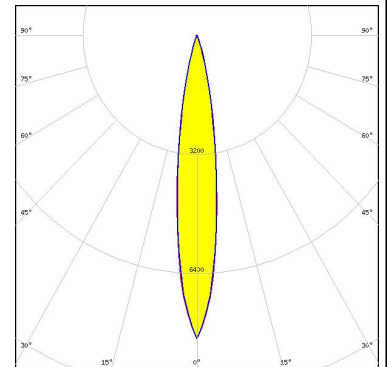
LED J Series 3030  
 FWHM / FWTM 16.0° / 34.0°  
 Efficiency 91 %  
 Peak intensity 7.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



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



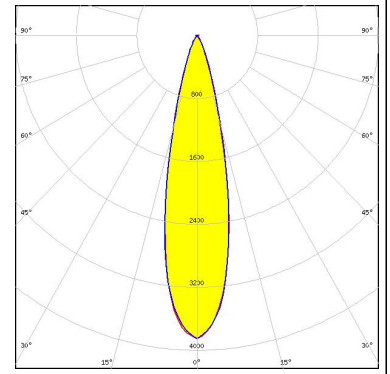
LED NVSxE21A  
 FWHM / FWTM 16.0° / 32.0°  
 Efficiency 82 %  
 Peak intensity 10 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14446\_FLORENTINA-SHD



### PHOTOMETRIC DATA (SIMULATED):



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

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### PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

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