

## FLORENTINA-2X2-MRK-S

~25° spot beam . Compatible with ultra high power LEDs.

### SPECIFICATION:

Dimensions	89.7 x 89.7 mm
Height	17.7 mm
Fastening	pin, screw
ROHS compliant	yes ⓘ

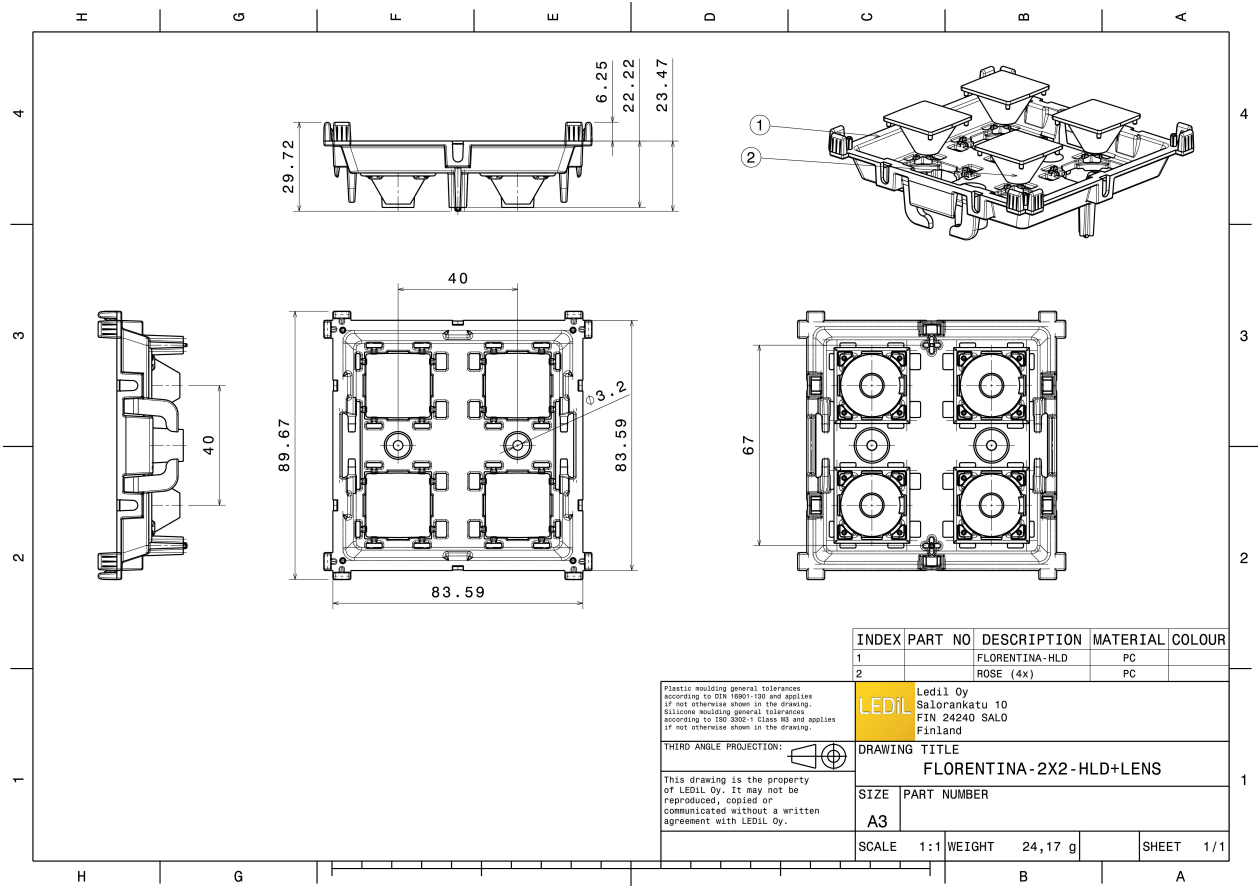


### MATERIALS:

Component	Type	Material	Colour	Finish	Length
ROSE-MRK-S	Single lens	PC	clear		21.6
FLORENTINA-2X2-HLD	Holder	PC	black		89.7

### ORDERING INFORMATION:

Component	Type	Qty in box	MOQ	MPQ	Box weight (kg)
FCP15704_FLORENTINA-2X2-MRK-S	Single lens	88	24	8	4.1
» Box size: 476 x 273 x 292 mm					

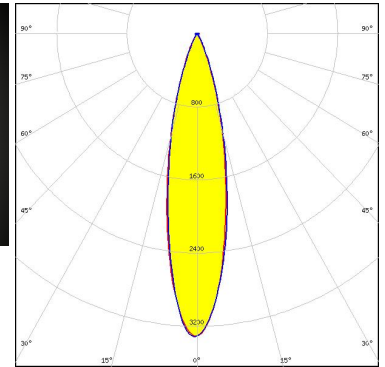
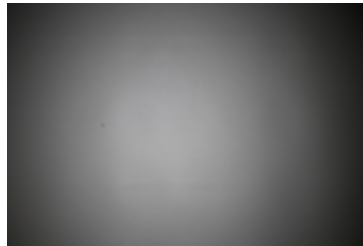


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

#### OPTICAL RESULTS (MEASURED):



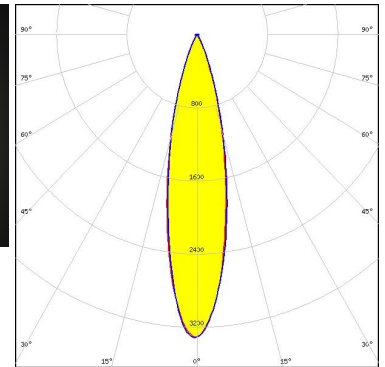
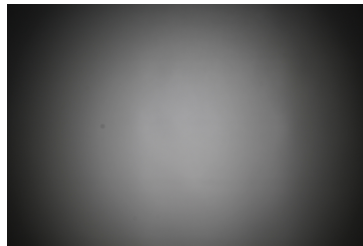
**LED** XHP35 HD  
**FWHM / FWTM** 23.0° / 46.0°  
**Efficiency** 80 %  
**Peak intensity** 3.3 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C14960\_FLORENTINA-2X2-SHD-WHT



Light distribution files



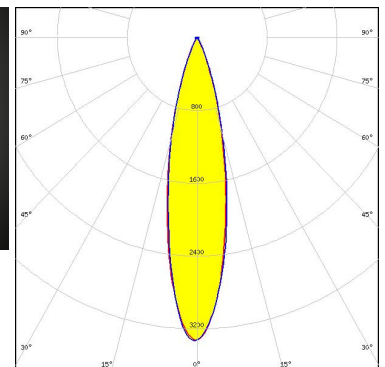
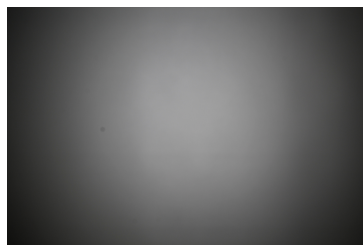
**LED** XHP35 HD  
**FWHM / FWTM** 23.0° / 46.0°  
**Efficiency** 76 %  
**Peak intensity** 3.3 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C14734\_FLORENTINA-2X2-SHD



Light distribution files



**LED** XHP35 HD  
**FWHM / FWTM** 23.0° / 46.0°  
**Efficiency** 77 %  
**Peak intensity** 3.3 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C15196\_FLORENTINA-2X2-SHD-OPEN



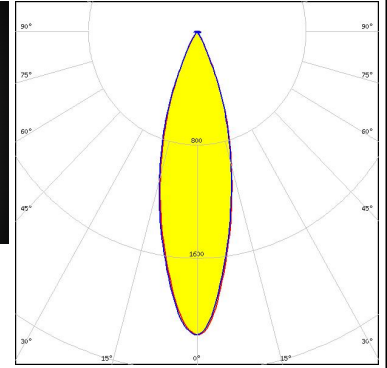
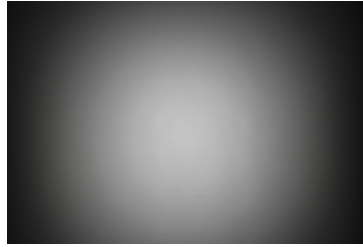
Light distribution files

#### OPTICAL RESULTS (MEASURED):



LED XHP50  
 FWHM / FWTM 28.0° / 53.0°  
 Efficiency 72 %  
 Peak intensity 2.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:  
 C15196\_FLORENTINA-2X2-SHD-OPEN

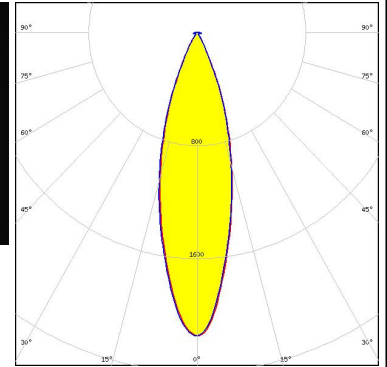


Light distribution files



LED XHP50  
 FWHM / FWTM 29.0° / 53.0°  
 Efficiency 77 %  
 Peak intensity 2.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:  
 C14960\_FLORENTINA-2X2-SHD-WHT

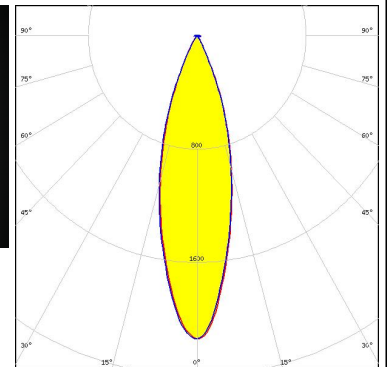
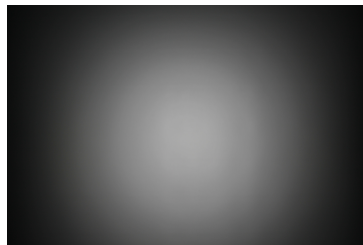


Light distribution files



LED XHP50  
 FWHM / FWTM 28.0° / 52.0°  
 Efficiency 72 %  
 Peak intensity 2.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:  
 C14734\_FLORENTINA-2X2-SHD

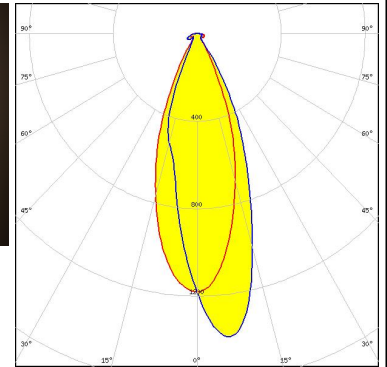
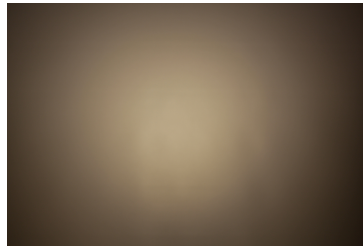


Light distribution files

#### OPTICAL RESULTS (MEASURED):



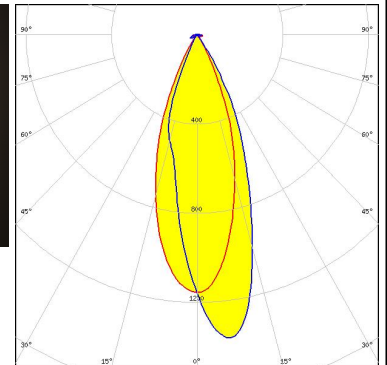
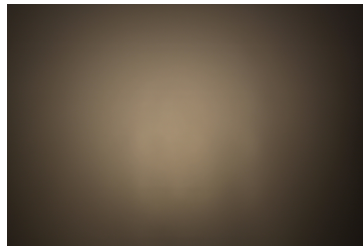
**LED** XHP70  
**FWHM / FWTM** 37.0° / 62.0°  
**Efficiency** 71 %  
**Peak intensity** 1.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C14960\_FLORENTINA-2X2-SHD-WHT



Light distribution files



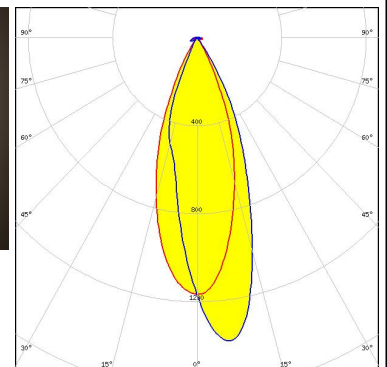
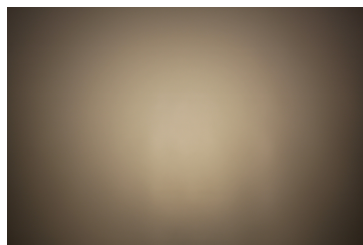
**LED** XHP70  
**FWHM / FWTM** 36.0° / 60.0°  
**Efficiency** 61 %  
**Peak intensity** 1.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C14734\_FLORENTINA-2X2-SHD



Light distribution files



**LED** XHP70  
**FWHM / FWTM** 36.0° / 60.0°  
**Efficiency** 62 %  
**Peak intensity** 1.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C15196\_FLORENTINA-2X2-SHD-OPEN

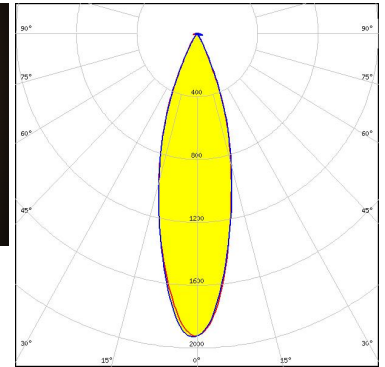
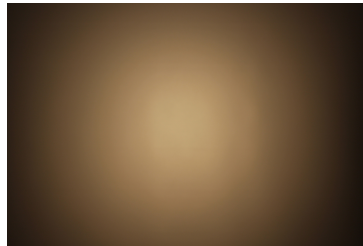


Light distribution files

#### OPTICAL RESULTS (MEASURED):



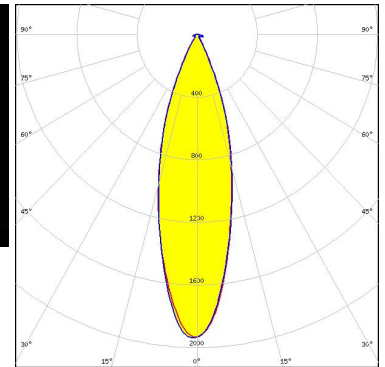
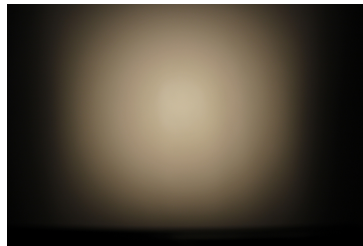
LED LUXEON M/MX  
FWHM / FWTM 29.0° / 54.0°  
Efficiency 69 %  
Peak intensity 1.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C15196\_FLORENTINA-2X2-SHD-OPEN



Light distribution files



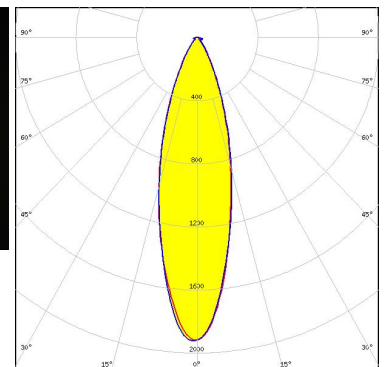
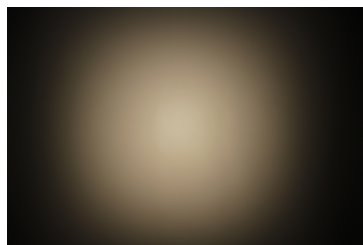
LED LUXEON M/MX  
FWHM / FWTM 29.0° / 54.0°  
Efficiency 75 %  
Peak intensity 1.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C14960\_FLORENTINA-2X2-SHD-WHT



Light distribution files



LED LUXEON M/MX  
FWHM / FWTM 29.0° / 60.0°  
Efficiency 79 %  
Peak intensity 1.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

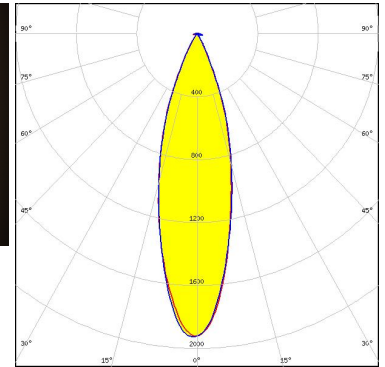
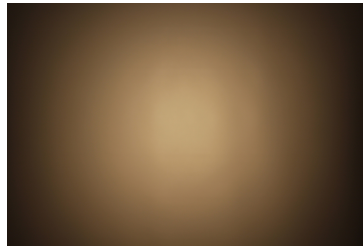


Light distribution files

#### OPTICAL RESULTS (MEASURED):



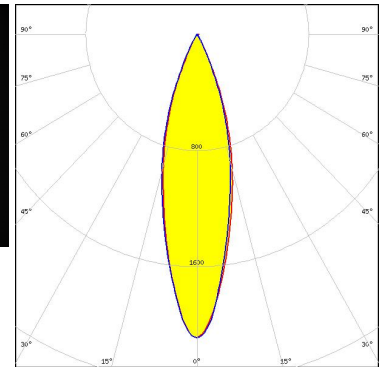
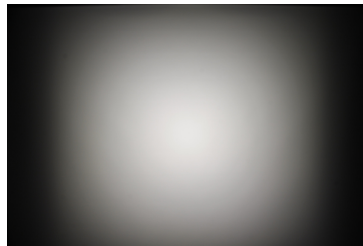
**LED** LUXEON M/MX  
**FWHM / FWTM** 29.0° / 53.0°  
**Efficiency** 68 %  
**Peak intensity** 1.9 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C14734\_FLORENTINA-2X2-SHD



Light distribution files



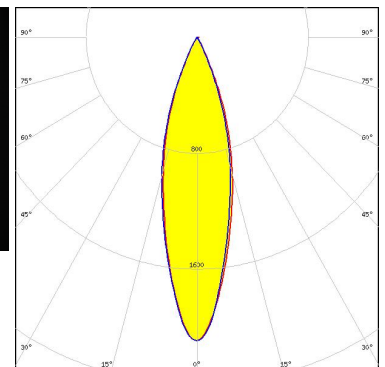
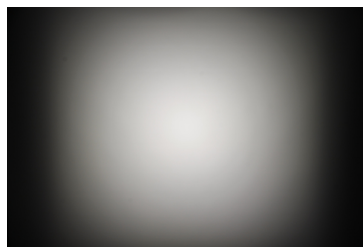
**LED** OSCONIQ P 7070  
**FWHM / FWTM** 28.0° / 54.0°  
**Efficiency** 62 %  
**Peak intensity** 2.1 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C14734\_FLORENTINA-2X2-SHD



Light distribution files



**LED** OSCONIQ P 7070  
**FWHM / FWTM** 28.0° / 54.0°  
**Efficiency** 63 %  
**Peak intensity** 2.1 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C15196\_FLORENTINA-2X2-SHD-OPEN

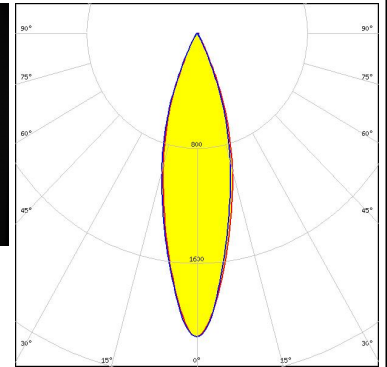
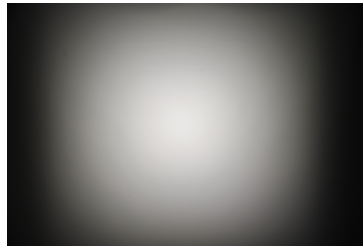


Light distribution files

#### OPTICAL RESULTS (MEASURED):

**OSRAM**  
Opto Semiconductors

LED                    OSCONIQ P 7070  
FWHM / FWTM      28.0° / 55.0°  
Efficiency            68 %  
Peak intensity      2.1 cd/lm  
LEDs/each optic    1  
Light colour/type   White  
Required components:  
C14960\_FLORENTINA-2X2-SHD-WHT



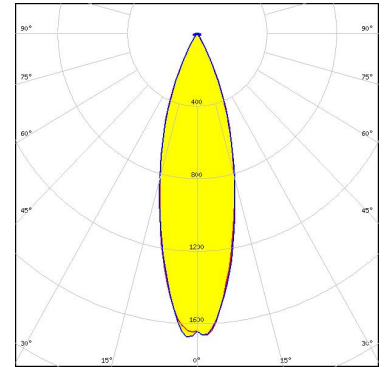
Light distribution files



#### OPTICAL RESULTS (SIMULATED):



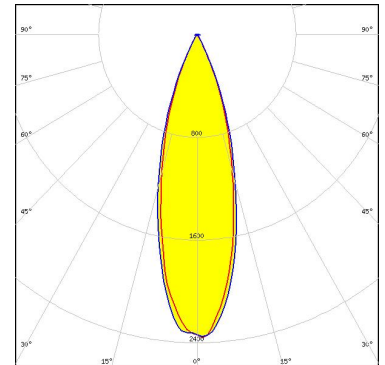
LED LUXEON 7070  
FWHM / FWTM 30.0° / 56.0°  
Efficiency 62 %  
Peak intensity 1.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C14734\_FLORENTINA-2X2-SHD



Light distribution files



LED Duris S8  
FWHM / FWTM 30.0° / 56.0°  
Efficiency 78 %  
Peak intensity 2.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C14734\_FLORENTINA-2X2-SHD



Light distribution files

#### 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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