

## FLORENTINA-2X2-MRK-M

~40° medium beam. Compatible with ultra high power LEDs.

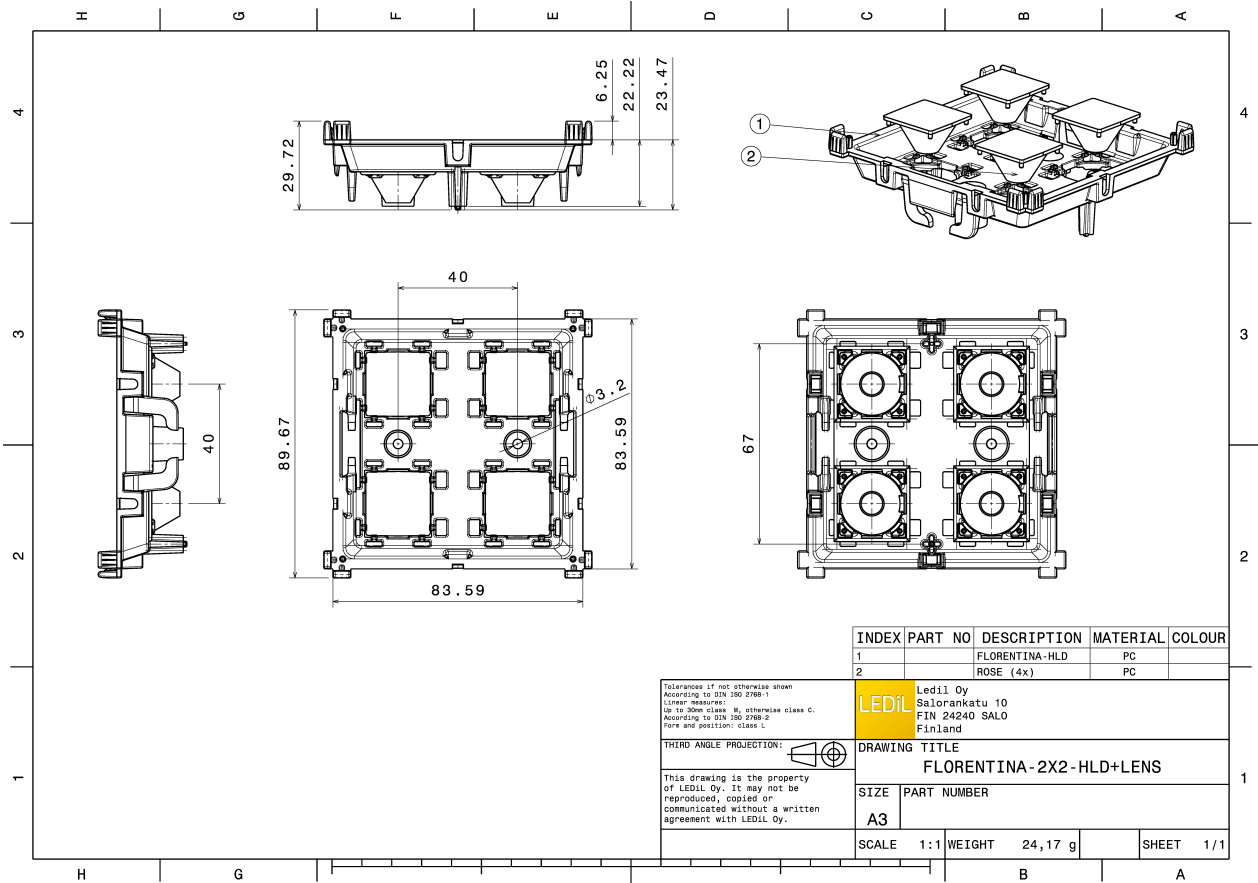
### TECHNICAL SPECIFICATIONS:

Dimensions	89.7 mm
Height	17.7 mm
Fastening	pin, screw
Colour	black
Box size	476 x 273 x 292 mm
Box weight	4.2 kg
Quantity in Box	88 pcs
ROHS compliant	yes ⓘ



### MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour
ROSE-MRK-M	Single lens	PC	clear
FLORENTINA-2X2-HLD	Holder	PC	black

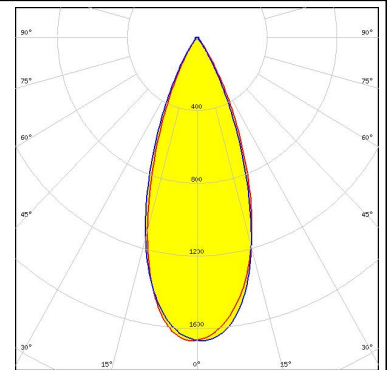


#### PHOTOMETRIC DATA (MEASURED):



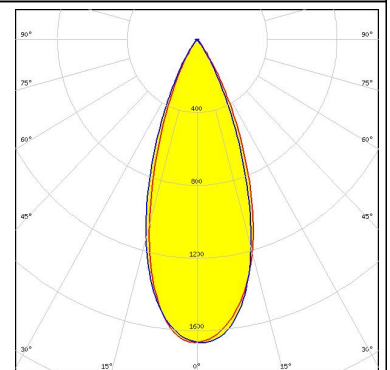
LED XHP35 HD  
 FWHM 39.0°  
 Efficiency 82 %  
 Peak intensity 1.700 cd/lm  
 LEDs/each optic 1  
 Light colour White

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



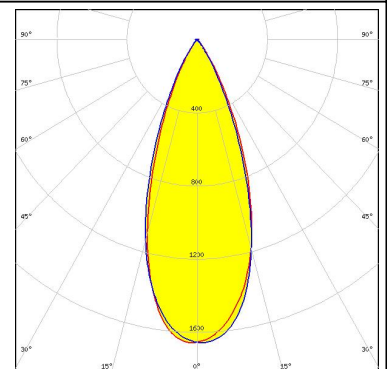
LED XHP35 HD  
 FWHM 39.0°  
 Efficiency 79 %  
 Peak intensity 1.700 cd/lm  
 LEDs/each optic 1  
 Light colour White

Required components:  
 C14734\_FLORENTINA-2X2-SHD



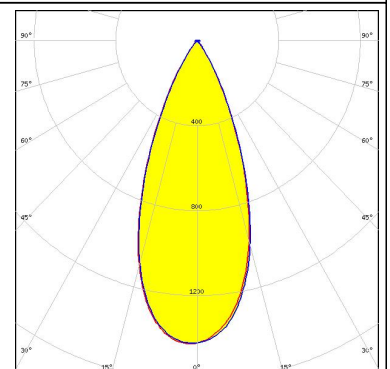
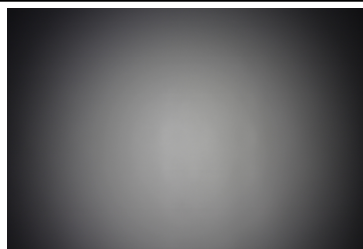
LED XHP35 HD  
 FWHM 39.0°  
 Efficiency 79 %  
 Peak intensity 1.700 cd/lm  
 LEDs/each optic 1  
 Light colour White

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



LED XHP50  
 FWHM 41.0°  
 Efficiency 76 %  
 Peak intensity 1.400 cd/lm  
 LEDs/each optic 1  
 Light colour White

Required components:  
 C14734\_FLORENTINA-2X2-SHD

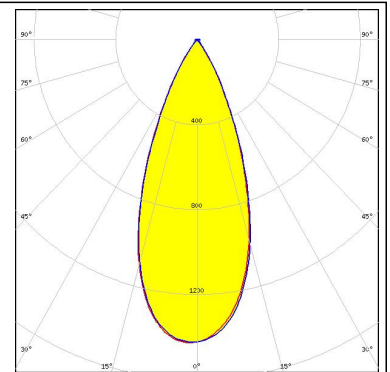


#### PHOTOMETRIC DATA (MEASURED):



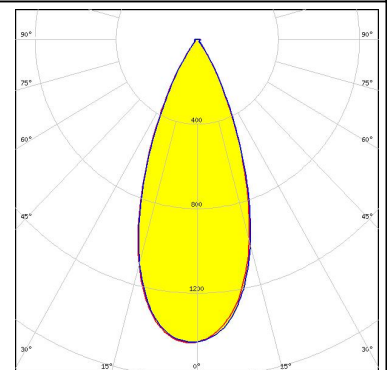
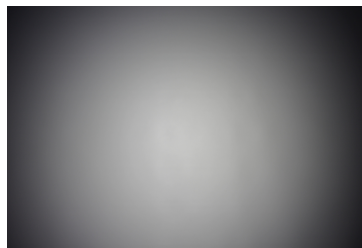
LED XHP50  
 FWHM 41.0°  
 Efficiency 76 %  
 Peak intensity 1.400 cd/lm  
 LEDs/each optic 1  
 Light colour White

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



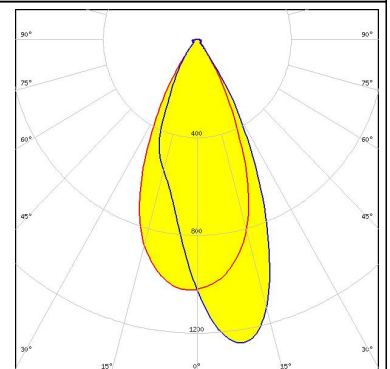
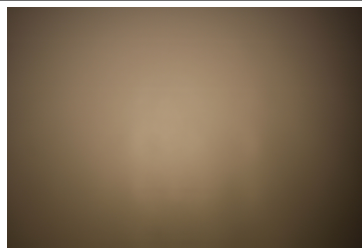
LED XHP50  
 FWHM 41.0°  
 Efficiency 80 %  
 Peak intensity 1.400 cd/lm  
 LEDs/each optic 1  
 Light colour White

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



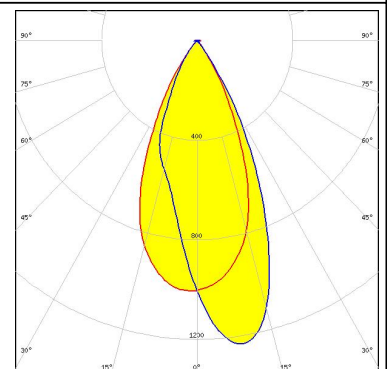
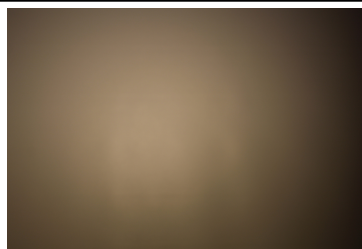
LED XHP70  
 FWHM 48.0°  
 Efficiency 77 %  
 Peak intensity 1.300 cd/lm  
 LEDs/each optic 1  
 Light colour White

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



LED XHP70  
 FWHM 48.0°  
 Efficiency 69 %  
 Peak intensity 1.200 cd/lm  
 LEDs/each optic 1  
 Light colour White

Required components:  
 C14734\_FLORENTINA-2X2-SHD

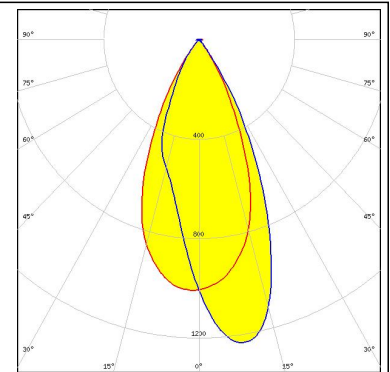
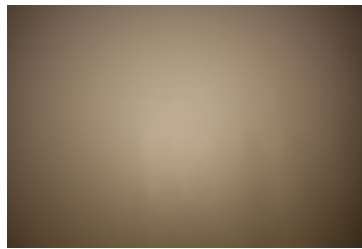


#### PHOTOMETRIC DATA (MEASURED):



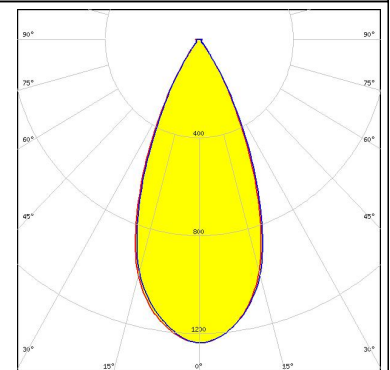
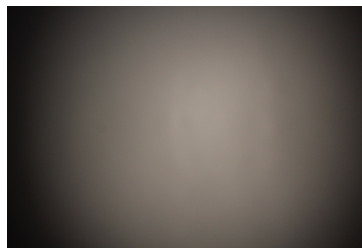
LED XHP70  
 FWHM 48.0°  
 Efficiency 70 %  
 Peak intensity 1.200 cd/lm  
 LEDs/each optic 1  
 Light colour White

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



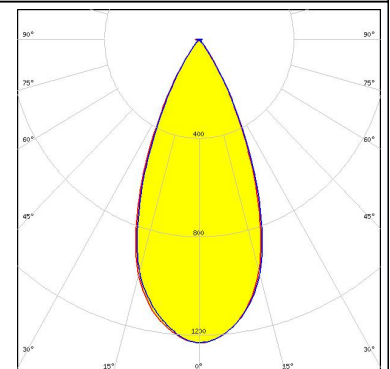
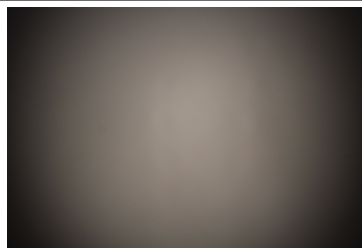
LED H70E0  
 FWHM 46.0°  
 Efficiency 80 %  
 Peak intensity 1.200 cd/lm  
 LEDs/each optic 1  
 Light colour White

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



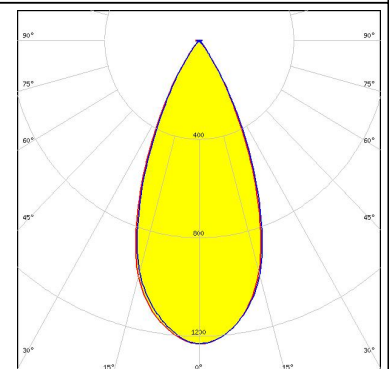
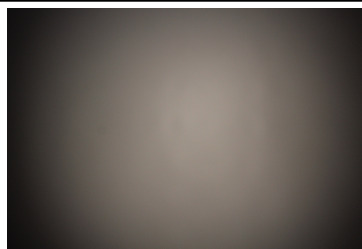
LED H70E0  
 FWHM 45.0°  
 Efficiency 75 %  
 Peak intensity 1.200 cd/lm  
 LEDs/each optic 1  
 Light colour White

Required components:  
 C14734\_FLORENTINA-2X2-SHD



LED H70E0  
 FWHM 45.0°  
 Efficiency 76 %  
 Peak intensity 1.200 cd/lm  
 LEDs/each optic 1  
 Light colour White

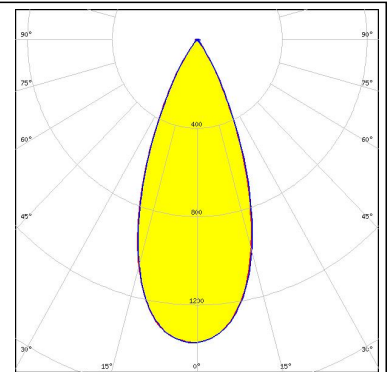
Required components:  
 C15196\_FLORENTINA-2X2-SHD-OPEN



#### PHOTOMETRIC DATA (MEASURED):

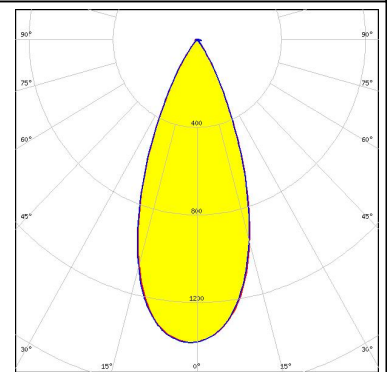
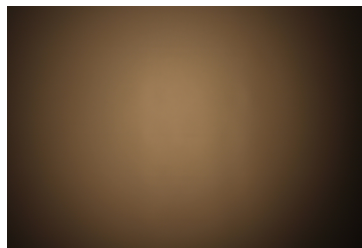
#### LUMILEDS

LED LUXEON M/MX  
 FWHM 42.0°  
 Efficiency 74 %  
 Peak intensity 1.400 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14734\_FLORENTINA-2X2-SHD



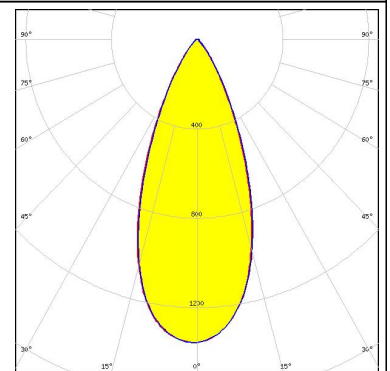
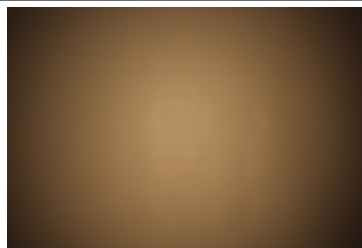
#### LUMILEDS

LED LUXEON M/MX  
 FWHM 41.0°  
 Efficiency 74 %  
 Peak intensity 1.400 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C15196\_FLORENTINA-2X2-SHD-OPEN



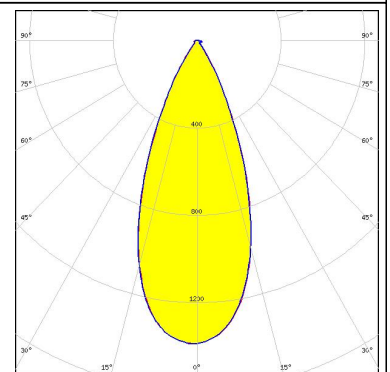
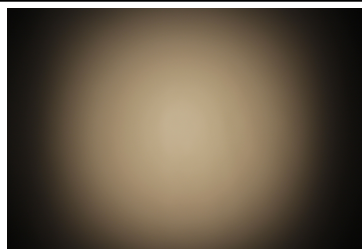
#### LUMILEDS

LED LUXEON M/MX  
 FWHM 43.0°  
 Efficiency 82 %  
 Peak intensity 1.400 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### LUMILEDS

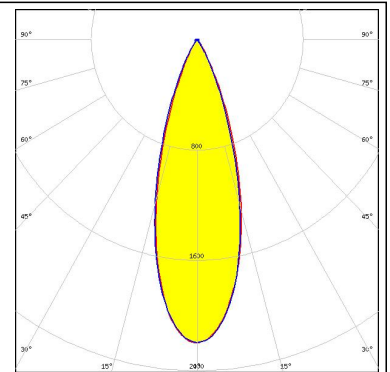
LED LUXEON M/MX  
 FWHM 42.0°  
 Efficiency 79 %  
 Peak intensity 1.400 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14960\_FLORENTINA-2X2-SHD-WHT



#### PHOTOMETRIC DATA (MEASURED):

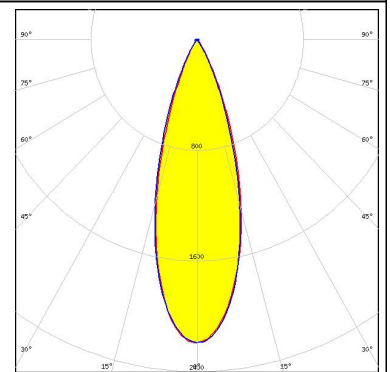
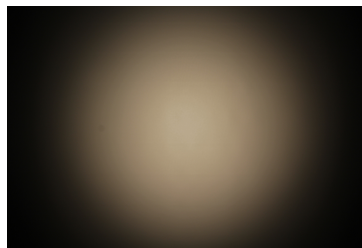
#### LUMILEDS

LED LUXEON MZ  
 FWHM 33.0°  
 Efficiency 78 %  
 Peak intensity 2.200 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14734\_FLORENTINA-2X2-SHD



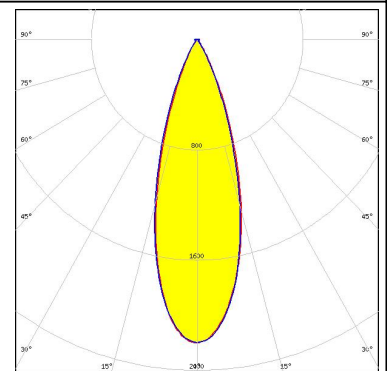
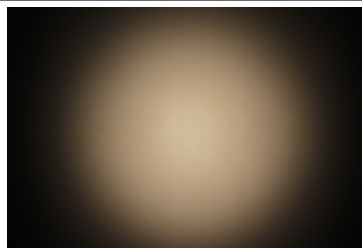
#### LUMILEDS

LED LUXEON MZ  
 FWHM 33.0°  
 Efficiency 77 %  
 Peak intensity 2.200 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C15196\_FLORENTINA-2X2-SHD-OPEN



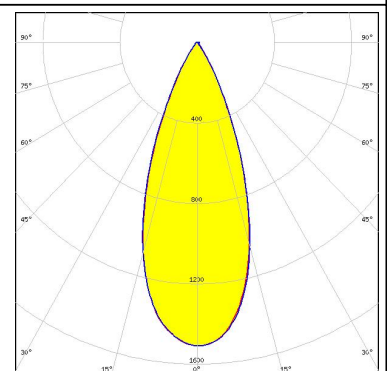
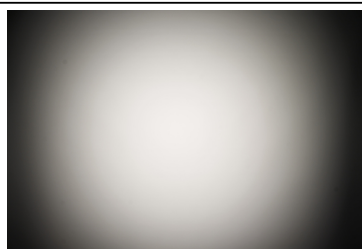
#### LUMILEDS

LED LUXEON MZ  
 FWHM 33.0°  
 Efficiency 81 %  
 Peak intensity 2.200 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14960\_FLORENTINA-2X2-SHD-WHT



#### OSRAM

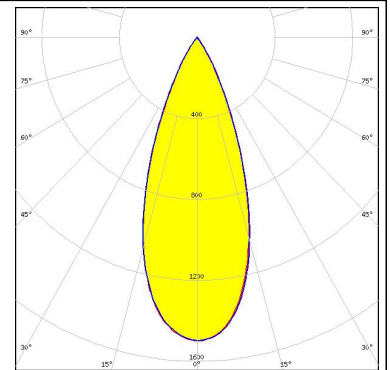
Opto Semiconductors  
 LED OSCONIQ P 7070  
 FWHM 40.0°  
 Efficiency 75 %  
 Peak intensity 1.500 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14960\_FLORENTINA-2X2-SHD-WHT



#### PHOTOMETRIC DATA (MEASURED):

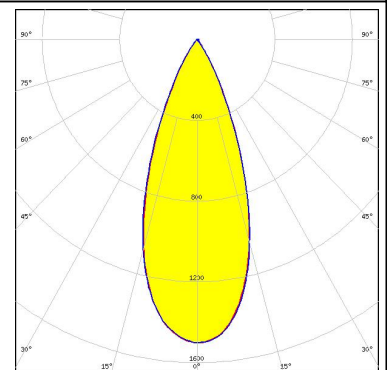
##### OSRAM Opto Semiconductors

LED OSCONIQ P 7070  
FWHM 40.0°  
Efficiency 70 %  
Peak intensity 1.500 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C14734\_FLORENTINA-2X2-SHD



##### OSRAM Opto Semiconductors

LED OSCONIQ P 7070  
FWHM 40.0°  
Efficiency 71 %  
Peak intensity 1.500 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C15196\_FLORENTINA-2X2-SHD-OPEN

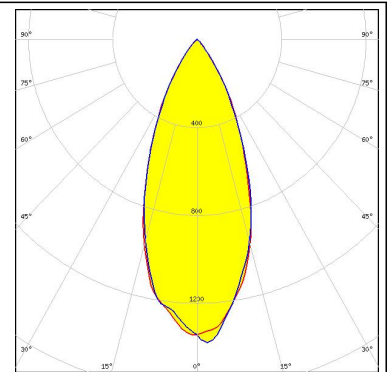




#### PHOTOMETRIC DATA (SIMULATED):

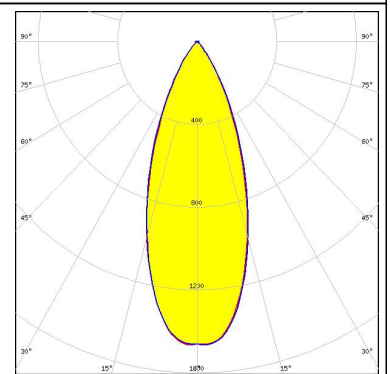


LED NV4x144A  
FWHM 42.0°  
Efficiency 76 %  
Peak intensity 1.390 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C14734\_FLORENTINA-2X2-SHD



Opto Semiconductors

LED Duris S8  
FWHM 39.0°  
Efficiency 76 %  
Peak intensity 1.480 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C14734\_FLORENTINA-2X2-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:

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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#### LEDiL Oy

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#### Local sales and technical support

[www.ledil.com/where\\_to\\_buy](http://www.ledil.com/where_to_buy)

#### Shipping locations

Salo, Finland  
Hong Kong, China

#### Distribution Partners

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