

## MIRELLA-50-W-PIN

~40° wide beam

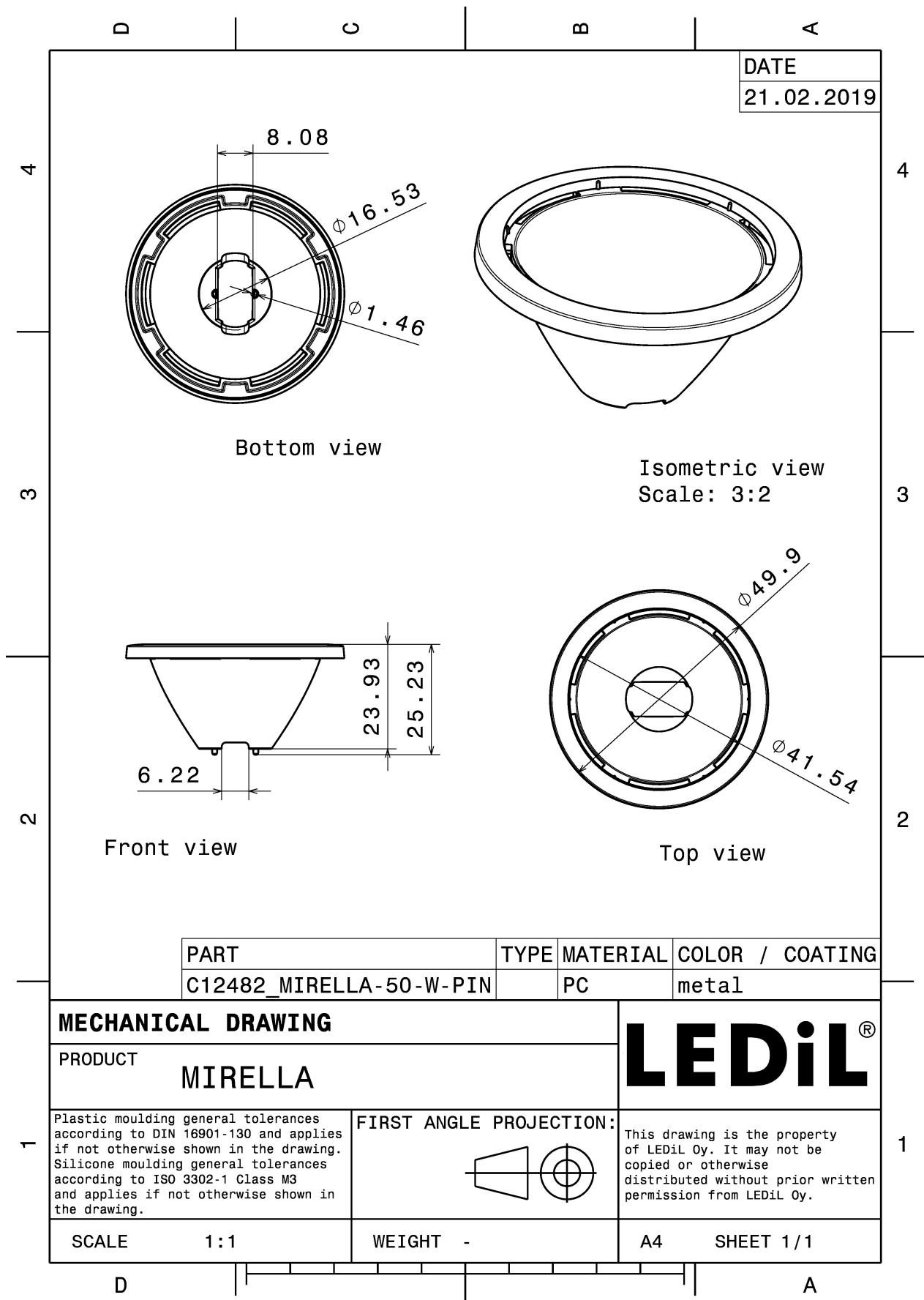
### TECHNICAL SPECIFICATIONS:

Dimensions	Ø 49.9 mm
Height	23.9 mm
Fastening	pin
Colour	metal
Box size	480 x 280 x 300 mm
Box weight	2.7 kg
Quantity in Box	336 pcs
ROHS compliant	yes ⓘ


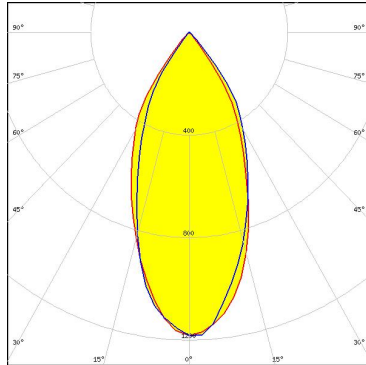
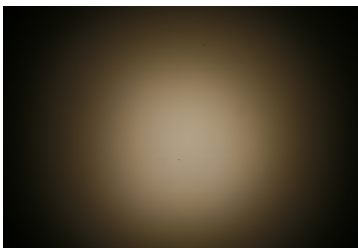
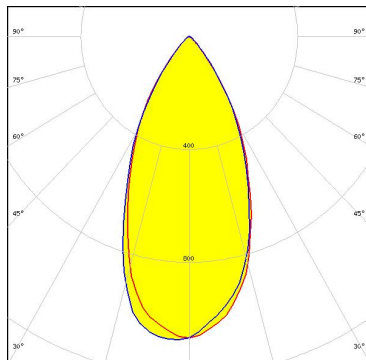



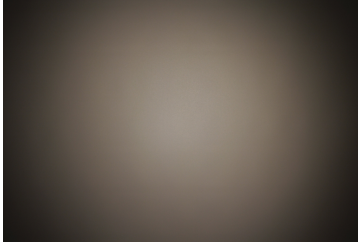


### MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Coating
MIRELLA-50-W-PIN	Reflector	PC	metal	lacquer



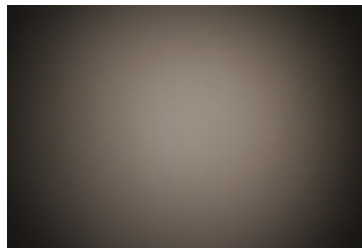
#### PHOTOMETRIC DATA (MEASURED):

<p>bridgelux</p> <p>LED SM4            FWHM 44.0°            Efficiency 78 %            Peak intensity 1.200 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C13333_MIRELLA-CL</p>		
<p>bridgelux</p> <p>LED SM4            FWHM 49.0°            Efficiency 77 %            Peak intensity 1.080 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C12479_MIRELLA-DL</p>		
<p><b>CREE</b> </p> <p>LED MHB-A/B            FWHM 45.0°            Efficiency 87 %            Peak intensity 1.370 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>CREE</b> </p> <p>LED MHB-A/B            FWHM 49.0°            Efficiency 82 %            Peak intensity 1.240 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C13333_MIRELLA-CL</p>		

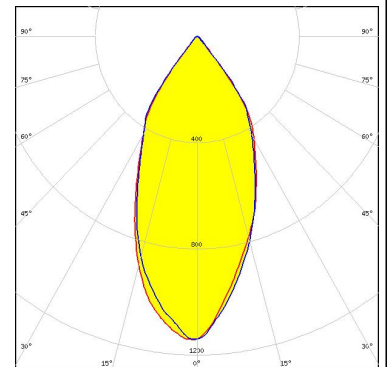
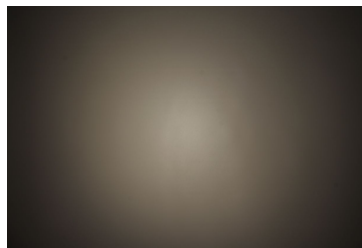
#### PHOTOMETRIC DATA (MEASURED):



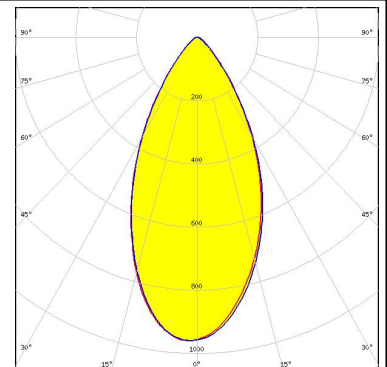
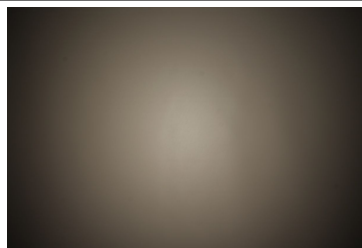
LED MHB-A/B  
 FWHM 51.0°  
 Efficiency 82 %  
 Peak intensity 1.170 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12479\_MIRELLA-DL



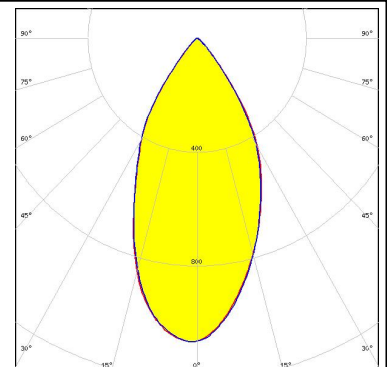
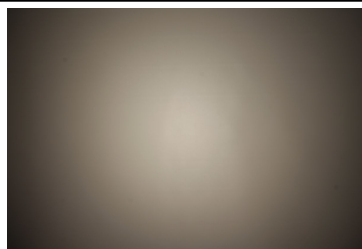
LED XHP50  
 FWHM 48.0°  
 Efficiency 83 %  
 Peak intensity 1.100 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13333\_MIRELLA-CL



LED XHP50  
 FWHM 51.0°  
 Efficiency 81 %  
 Peak intensity 0.960 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13723\_MIRELLA-RZL



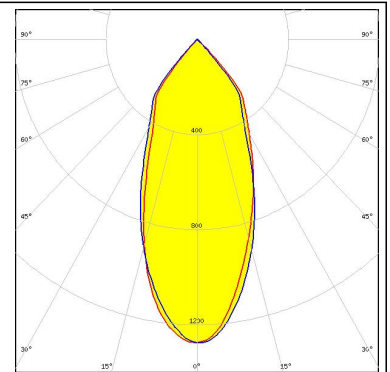
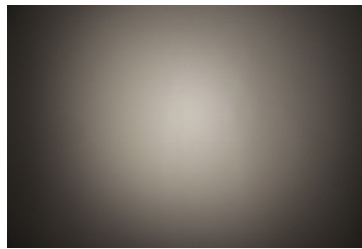
LED XHP50  
 FWHM 51.0°  
 Efficiency 84 %  
 Peak intensity 1.100 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12479\_MIRELLA-DL



#### PHOTOMETRIC DATA (MEASURED):

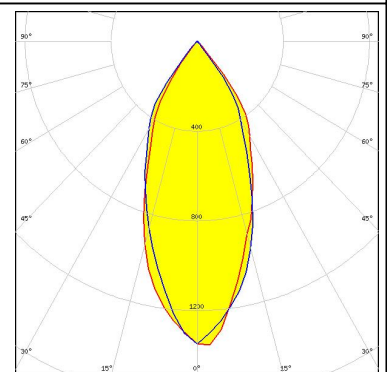
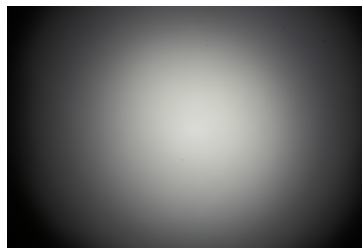
#### CREE

LED XHP50  
 FWHM 44.0°  
 Efficiency 89 %  
 Peak intensity 1.300 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



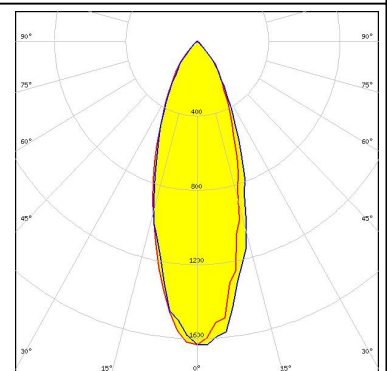
#### CREE

LED XM-L  
 FWHM 45.0°  
 Efficiency 86 %  
 Peak intensity 1.400 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13333\_MIRELLA-CL



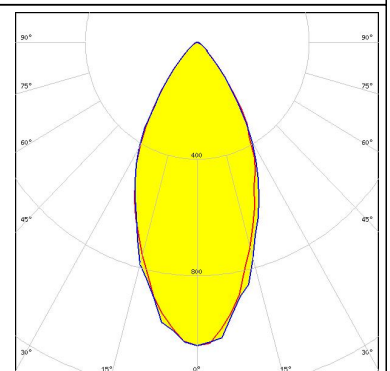
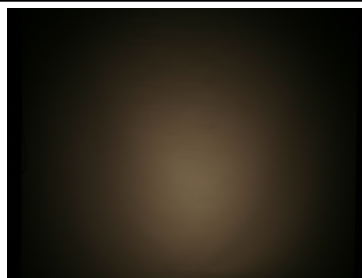
#### CREE

LED XM-L  
 FWHM 32.0°  
 Efficiency 88 %  
 Peak intensity 1.630 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### CREE

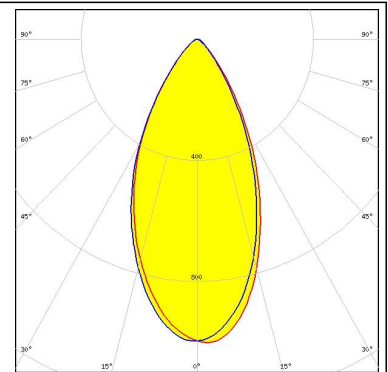
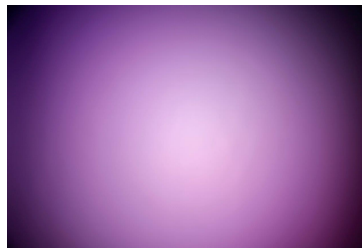
LED XM-L  
 FWHM 46.0°  
 Efficiency 80 %  
 Peak intensity 1.000 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12479\_MIRELLA-DL



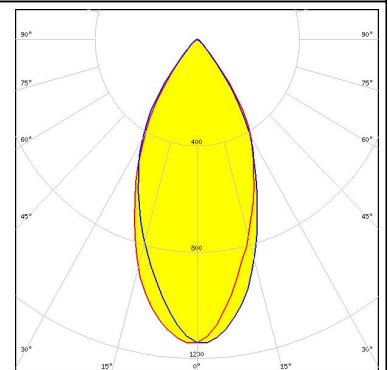
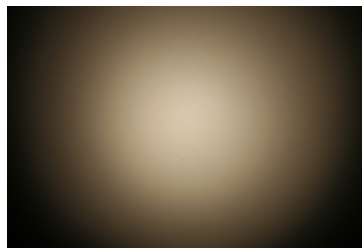
#### PHOTOMETRIC DATA (MEASURED):



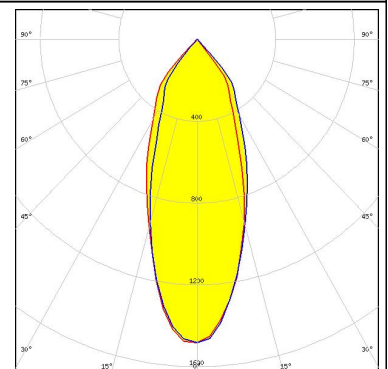
LED XM-L RGB  
 FWHM 50.0°  
 Efficiency 81 %  
 Peak intensity 1.000 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13723\_MIRELLA-RZL



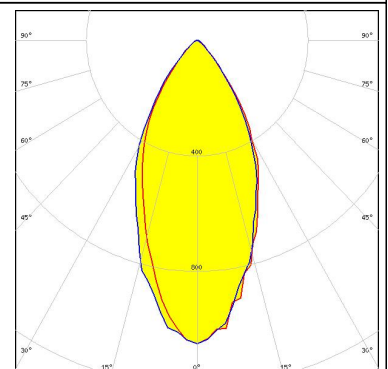
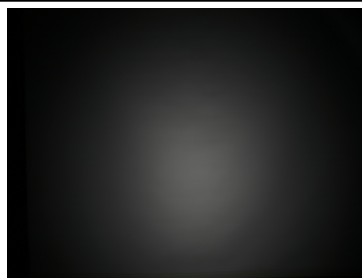
LED XM-L2  
 FWHM 49.0°  
 Efficiency 81 %  
 Peak intensity 1.100 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12479\_MIRELLA-DL



LED XM-L2  
 FWHM 39.0°  
 Efficiency 89 %  
 Peak intensity 1.500 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



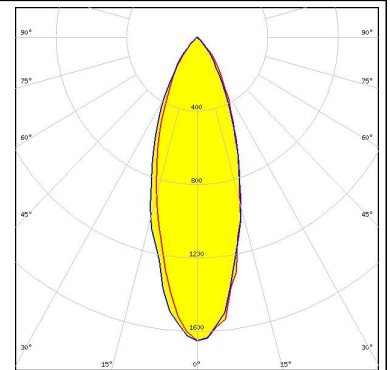
LED XP-G  
 FWHM 50.0°  
 Efficiency 80 %  
 Peak intensity 1.050 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12479\_MIRELLA-DL



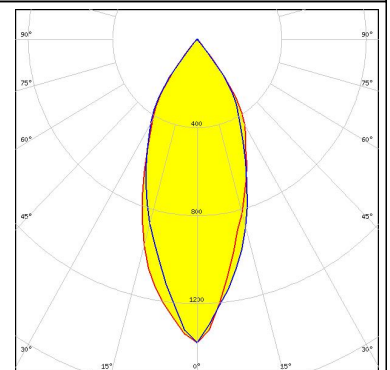
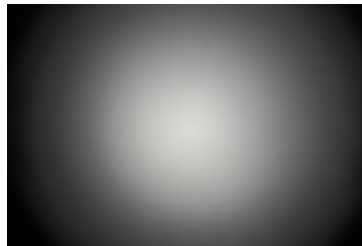
#### PHOTOMETRIC DATA (MEASURED):



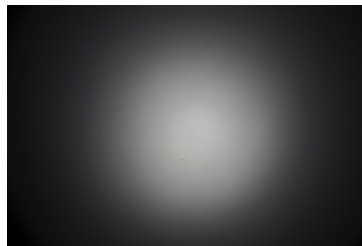
LED XP-G  
 FWHM 34.0°  
 Efficiency 86 %  
 Peak intensity 1.700 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



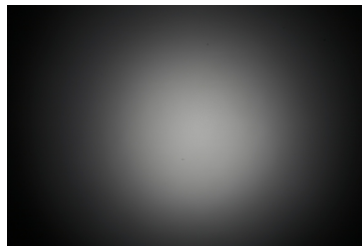
LED XP-G  
 FWHM 41.0°  
 Efficiency 81 %  
 Peak intensity 1.400 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13333\_MIRELLA-CL



LED XP-G2  
 FWHM 36.0°  
 Efficiency 88 %  
 Peak intensity 1.700 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED XP-G2  
 FWHM 45.0°  
 Efficiency 83 %  
 Peak intensity 1.300 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12479\_MIRELLA-DL



#### PHOTOMETRIC DATA (MEASURED):

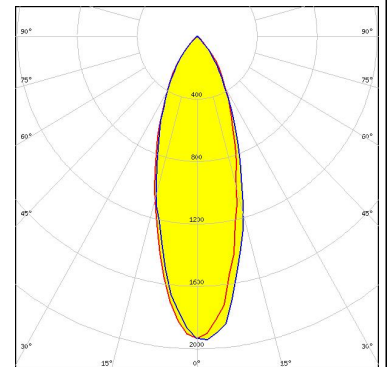
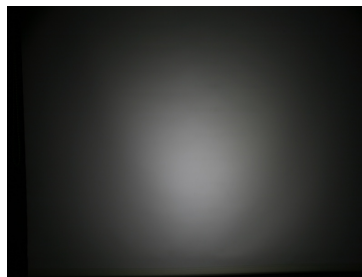
#### CREE

LED XP-L HI  
 FWHM 35.0°  
 Efficiency 87 %  
 Peak intensity 1.700 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



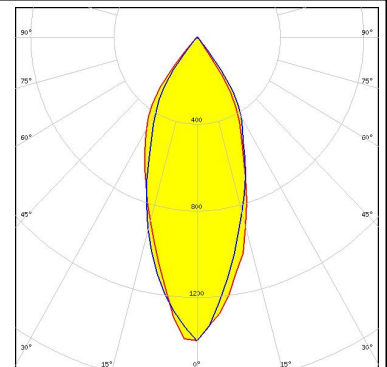
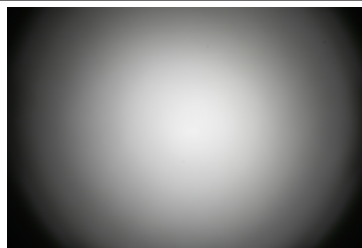
#### CREE

LED XT-E  
 FWHM 31.0°  
 Efficiency 84 %  
 Peak intensity 1.200 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



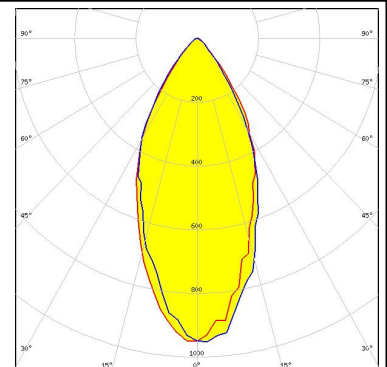
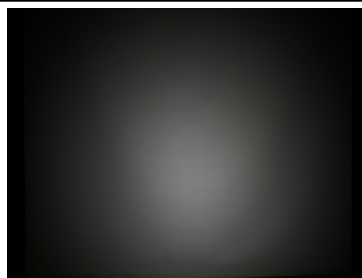
#### CREE

LED XT-E  
 FWHM 41.0°  
 Efficiency 83 %  
 Peak intensity 1.400 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13333\_MIRELLA-CL



#### CREE

LED XT-E  
 FWHM 46.0°  
 Efficiency 77 %  
 Peak intensity 0.950 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12479\_MIRELLA-DL

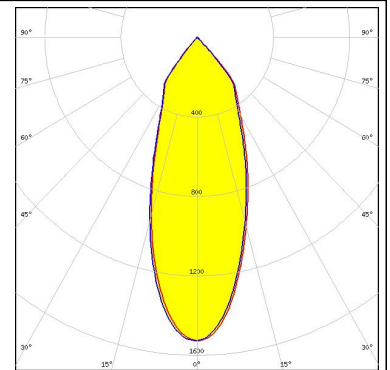




#### PHOTOMETRIC DATA (MEASURED):

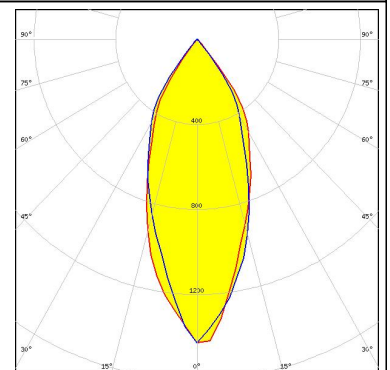
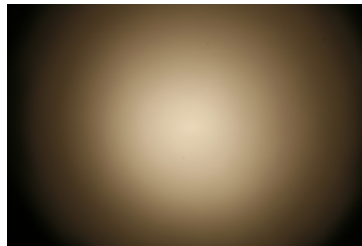
##### LUMILEDS

LED LUXEON 5050  
 FWHM 38.0°  
 Efficiency 89 %  
 Peak intensity 1.500 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



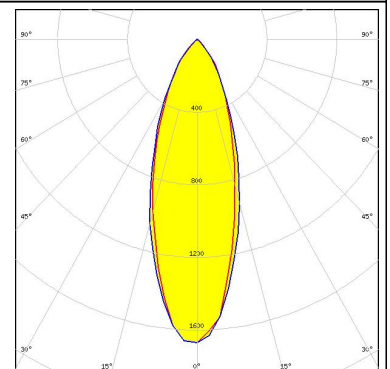
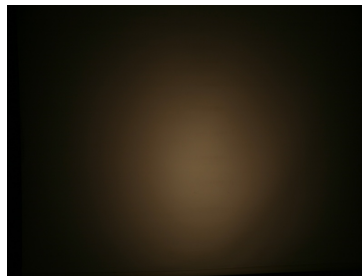
##### LUMILEDS

LED LUXEON A  
 FWHM 41.0°  
 Efficiency 84 %  
 Peak intensity 1.400 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13333\_MIRELLA-CL



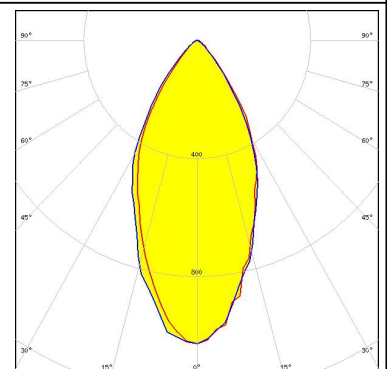
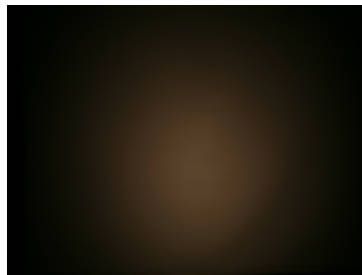
##### LUMILEDS

LED LUXEON A  
 FWHM 30.0°  
 Efficiency 86 %  
 Peak intensity 1.670 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:


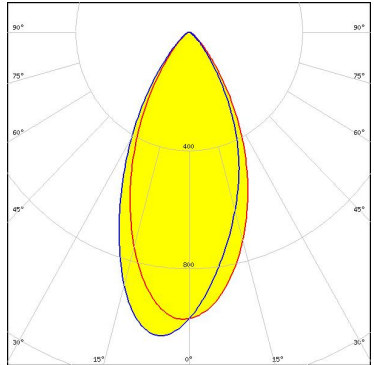

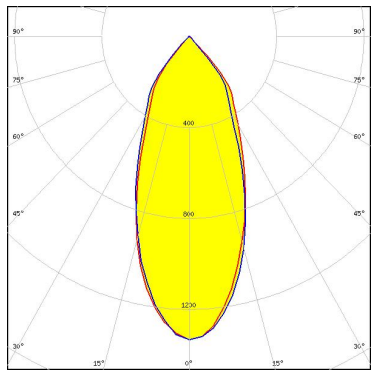

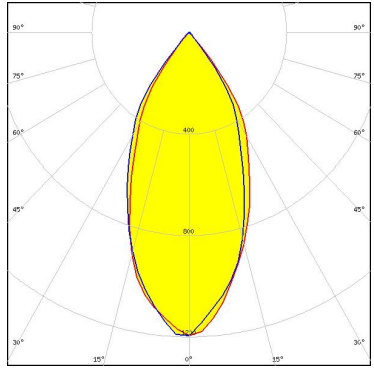
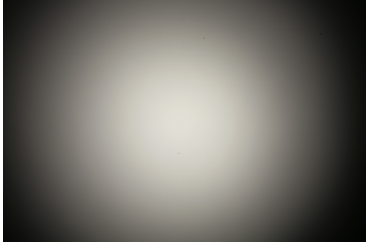
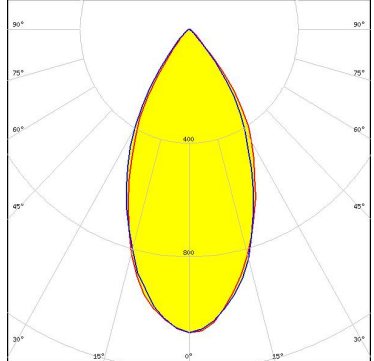


##### LUMILEDS

LED LUXEON A  
 FWHM 48.0°  
 Efficiency 80 %  
 Peak intensity 1.030 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12479\_MIRELLA-DL



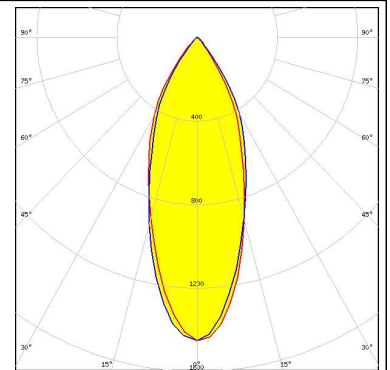
#### PHOTOMETRIC DATA (MEASURED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON C            FWHM 47.0°            Efficiency 77 %            Peak intensity 1.030 cd/lm            LEDs/each optic 4            Light colour RGBW            Required components:            C13723_MIRELLA-RZL</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON M/MX            FWHM 39.0°            Efficiency 87 %            Peak intensity 1.400 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON M/MX            FWHM 47.0°            Efficiency 83 %            Peak intensity 1.200 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C13333_MIRELLA-CL</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON M/MX            FWHM 54.0°            Efficiency 80 %            Peak intensity 0.980 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C12479_MIRELLA-DL</p>		

#### PHOTOMETRIC DATA (MEASURED):

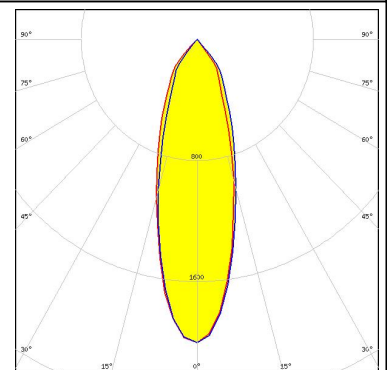
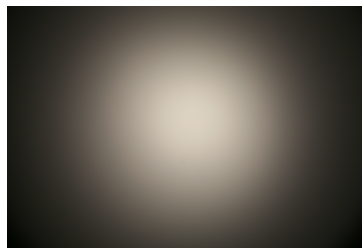
##### LUMILEDS

LED LUXEON MZ  
 FWHM 40.0°  
 Efficiency 82 %  
 Peak intensity 1.500 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12479\_MIRELLA-DL



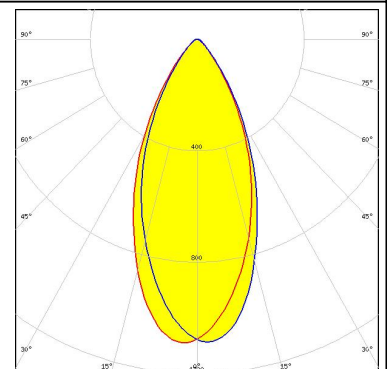
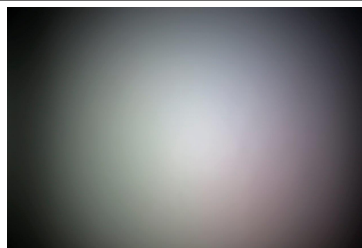
##### LUMILEDS

LED LUXEON MZ  
 FWHM 32.0°  
 Efficiency 87 %  
 Peak intensity 2.000 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



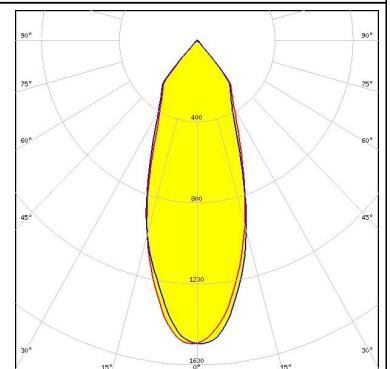
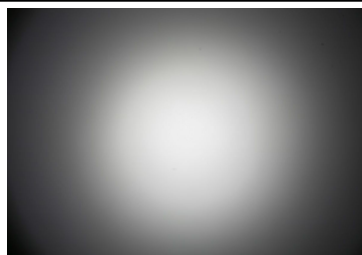
##### LUMILEDS

LED LUXEON Z  
 FWHM 46.0°  
 Efficiency 80 %  
 Peak intensity 1.100 cd/m  
 LEDs/each optic 4  
 Light colour RGBW  
 Required components:  
 C13723\_MIRELLA-RZL

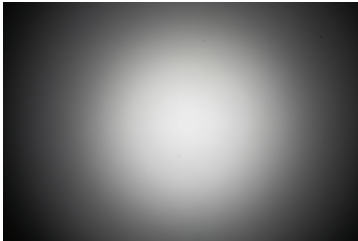
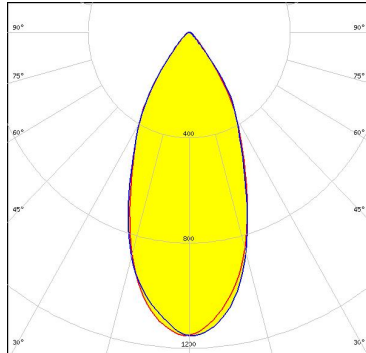

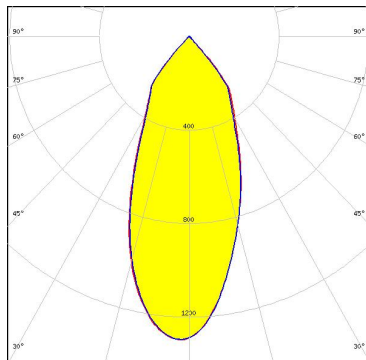

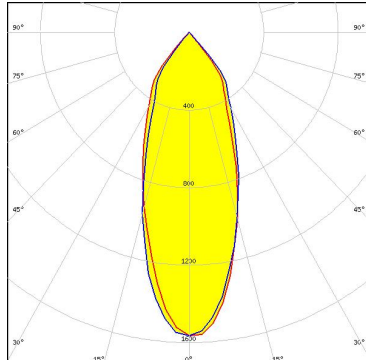
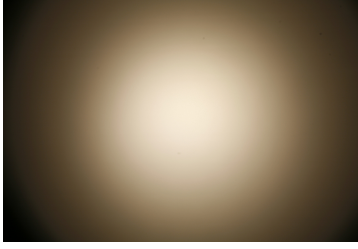
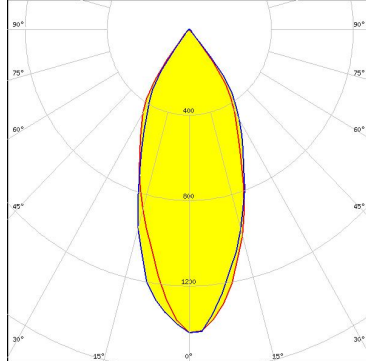


##### NICHIA

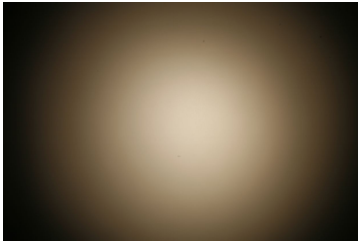
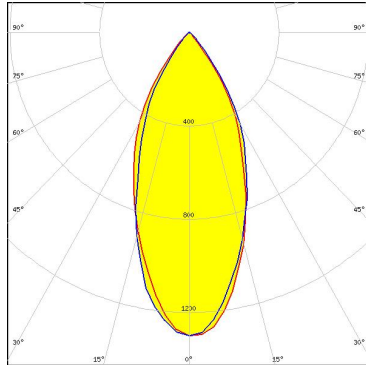
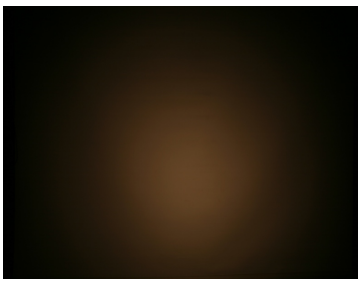
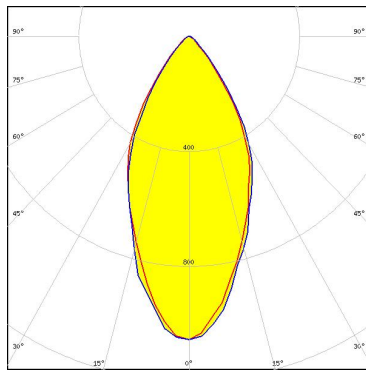
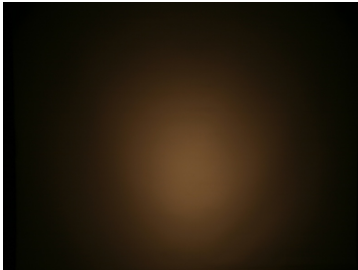
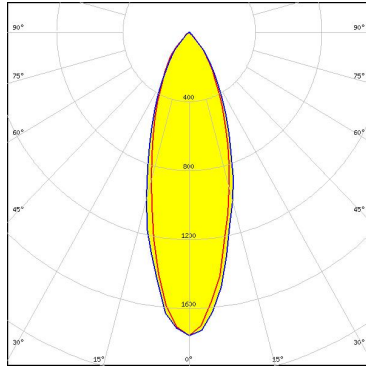

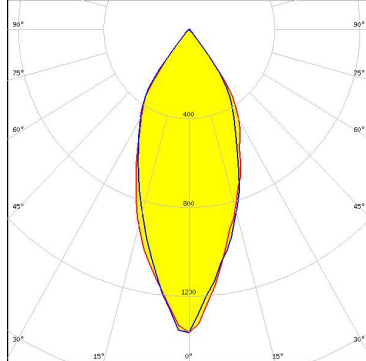
LED NS9x383  
 FWHM 39.0°  
 Efficiency 89 %  
 Peak intensity 1.500 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHOTOMETRIC DATA (MEASURED):

<p><b>NICHIA</b></p> <p>LED NS9x383            FWHM 46.0°            Efficiency 83 %            Peak intensity 1.150 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C12479_MIRELLA-DL</p>		
<p><b>NICHIA</b></p> <p>LED NV4x144A            FWHM 43.0°            Efficiency 87 %            Peak intensity 1.300 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>OSRAM</b>  <small>Opto Semiconductors</small></p> <p>LED Duris S8            FWHM 39.0°            Efficiency 88 %            Peak intensity 1.600 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>OSRAM</b>  <small>Opto Semiconductors</small></p> <p>LED Duris S8            FWHM 42.0°            Efficiency 84 %            Peak intensity 1.400 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C13333_MIRELLA-CL</p>		

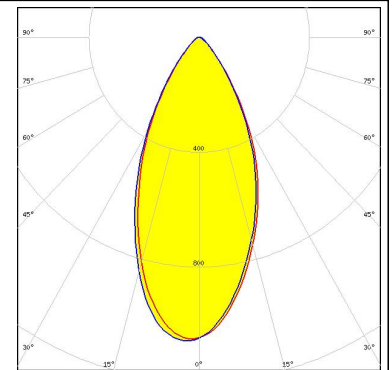
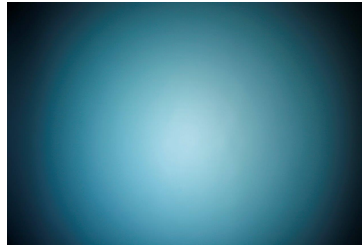
#### PHOTOMETRIC DATA (MEASURED):

<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED Duris S8 FWHM 44.0° Efficiency 83 % Peak intensity 1.300 cd/lm LEDs/each optic 1 Light colour White Required components: C12479_MIRELLA-DL</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSLO Square EC FWHM 50.0° Efficiency 79 % Peak intensity 1.060 cd/lm LEDs/each optic 1 Light colour White Required components: C12479_MIRELLA-DL</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSLO Square EC FWHM 32.0° Efficiency 85 % Peak intensity 1.760 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSLO Square EC FWHM 41.0° Efficiency 83 % Peak intensity 1.400 cd/lm LEDs/each optic 1 Light colour White Required components: C13333_MIRELLA-CL</p>		

**PHOTOMETRIC DATA (MEASURED):**

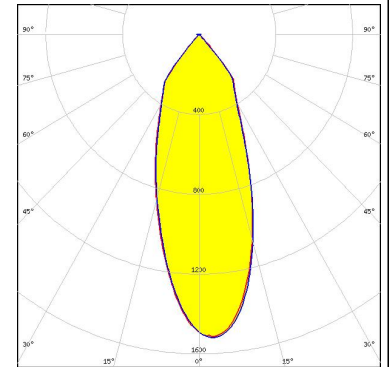
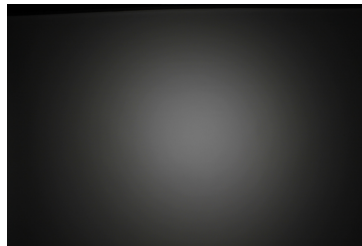
**OSRAM**  
Opto Semiconductors

LED Ostar-SMT RGB  
FWHM 48.0°  
Efficiency 81 %  
Peak intensity 1.100 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13723\_MIRELLA-RZL



**SAMSUNG**

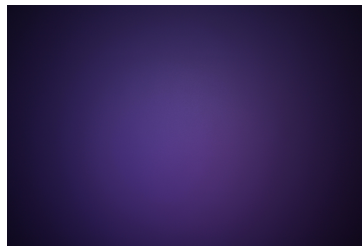
LED LH508A  
FWHM 38.0°  
Efficiency 87 %  
Peak intensity 1.500 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



**SEOL**

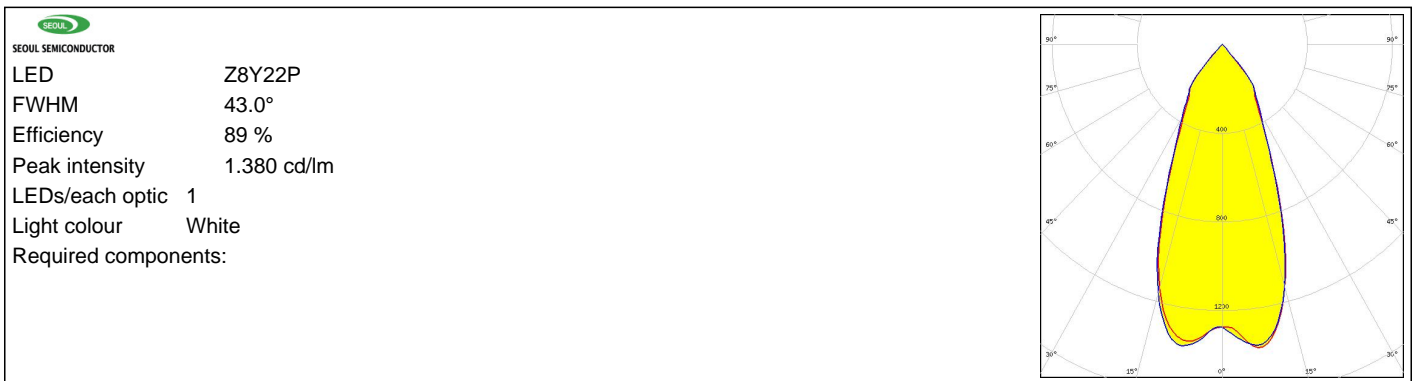
SEOUL SEMICONDUCTOR

LED F50360 (RGB)  
FWHM 46.0°  
Efficiency 81 %  
Peak intensity 1.200 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13723\_MIRELLA-RZL





#### PHOTOMETRIC DATA (SIMULATED):





#### 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.

LEDiL Oy assumes neither warranty, nor guarantee nor any other liability of any kind for the contents and correctness of the provided data. The provided data has been generated with highest diligence but the provided data may in reality not represent the complete possible variation range of all intrinsic parameters. Therefore, in certain cases a deviation from the provided data could occur.

LEDiL Oy reserves the right to undertake technical changes of its products without further notification which could lead to changes in the provided data. LEDiL Oy assumes no liability of any kind for the possible deviation from any provided data or any other damage resulting from the usage of the provided data.

The user agrees to this disclaimer and user agreement with the download or usage of the provided files.

#### LEDiL Oy

Joensuunkatu 13  
FI-24240 SALO  
Finland

#### LEDiL Inc.

228 West Page Street  
Suite D  
Sycamore IL 60178  
USA

#### 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

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