

## MIRELLA-50-S

~15° spot beam

### TECHNICAL SPECIFICATIONS:

Dimensions	Ø 49.9 mm
Height	24 mm
Fastening	glue
ROHS compliant	yes ⓘ

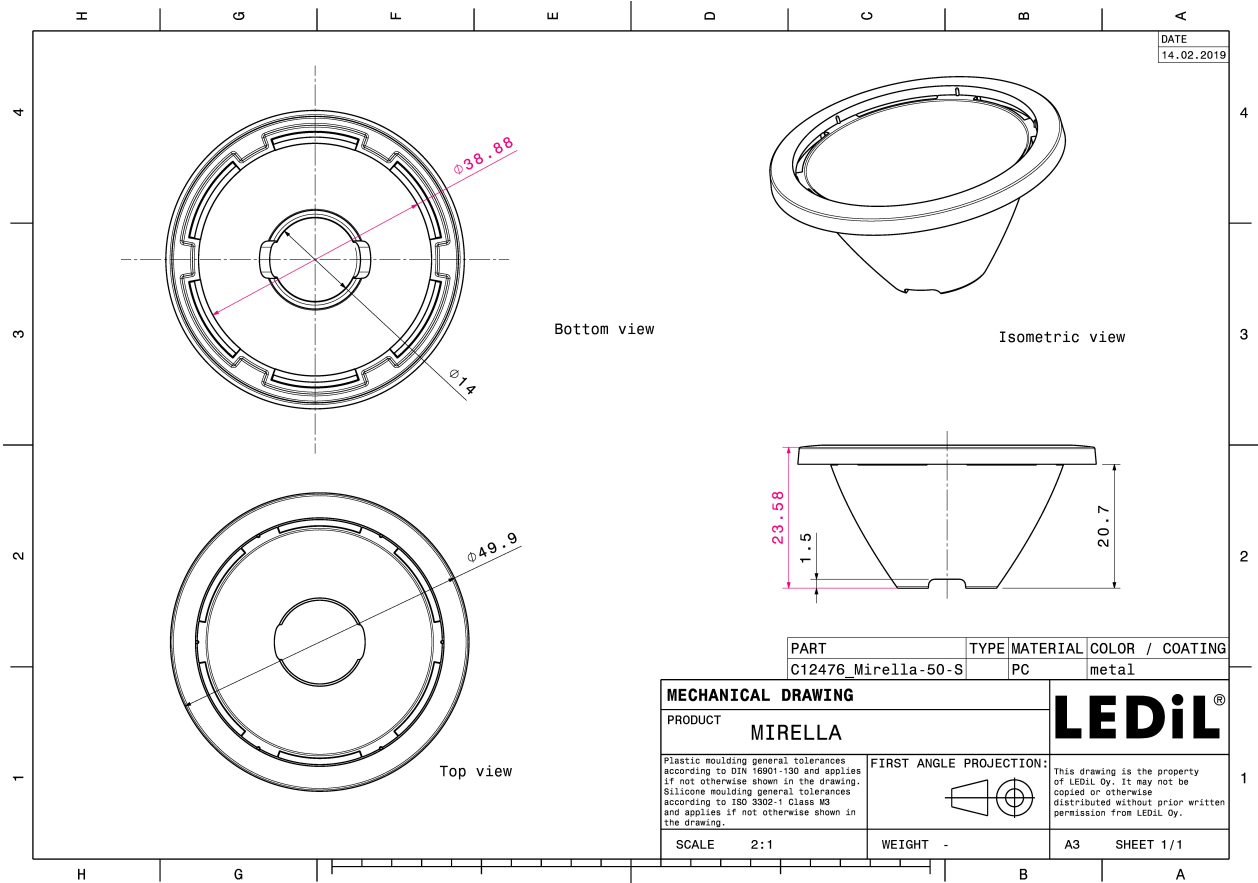
### MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish	Coating
MIRELLA-50-S	Reflector	PC	metal		lacquer


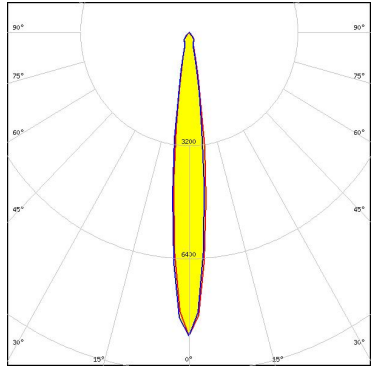

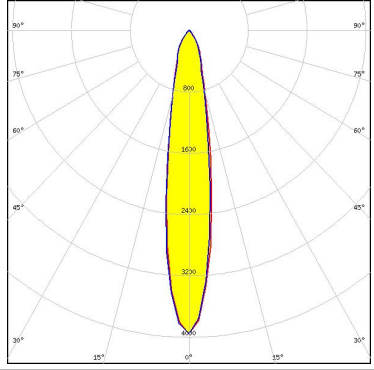
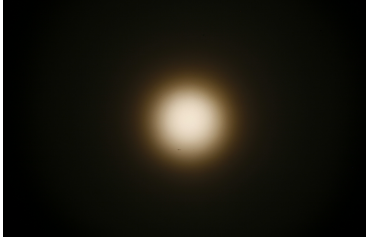



### ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C12476_MIRELLA-50-S » Box size: 480 x 280 x 300 mm	336	112	28	3.0



#### PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED BXRA LS</p> <p>FWHM 13.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 8.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>bridgelux.</p> <p>LED BXRA LS</p> <p>FWHM 18.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C12479_MIRELLA-DL</p>		
<p>bridgelux.</p> <p>LED BXRA LS</p> <p>FWHM 14.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 6.7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13333_MIRELLA-CL</p>		
<p><b>CITIZEN</b></p> <p>LED CLL01x</p> <p>FWHM 17.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 5.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13333_MIRELLA-CL</p>		

**PHOTOMETRIC DATA (MEASURED):**

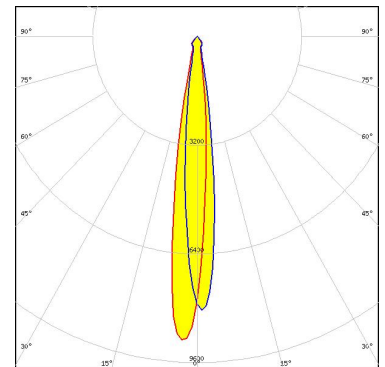
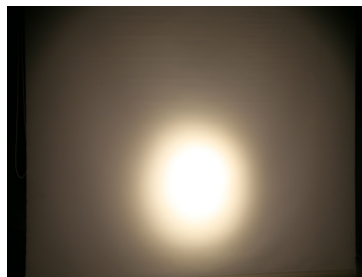
## CITIZEN

LED CLL01x  
FWHM 20.0°  
Efficiency %  
LEDs/each optic 1  
Light colour White  
Required components:  
C12479\_MIRELLA-DL



## CITIZEN

LED CLL01x  
FWHM 14.0°  
Efficiency %  
LEDs/each optic 1  
Light colour White  
Required components:



## CITIZEN

LED CLL02x/CLU02x (LES10)  
FWHM 20.0°  
Efficiency 93 %  
LEDs/each optic 1  
Light colour White  
Required components:



## CITIZEN

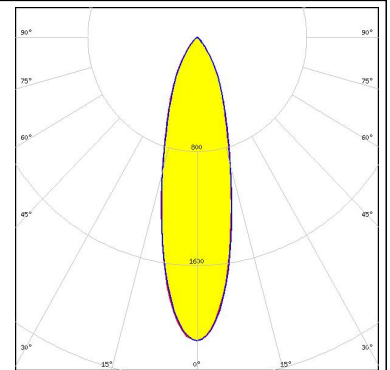
LED CLL02x/CLU02x (LES10)  
FWHM 19.0°  
Efficiency 84 %  
Peak intensity 3.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13333\_MIRELLA-CL



#### PHOTOMETRIC DATA (MEASURED):

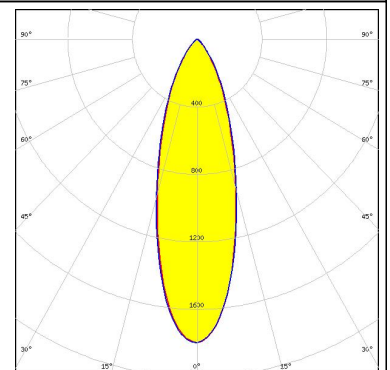
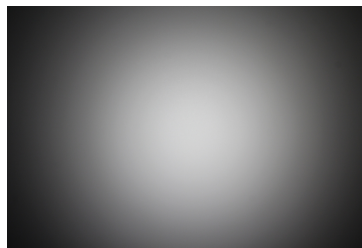
#### CITIZEN

LED CLL02x/CLU02x (LES10)  
 FWHM 28.0°  
 Efficiency 82 %  
 Peak intensity 2.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12479\_MIRELLA-DL



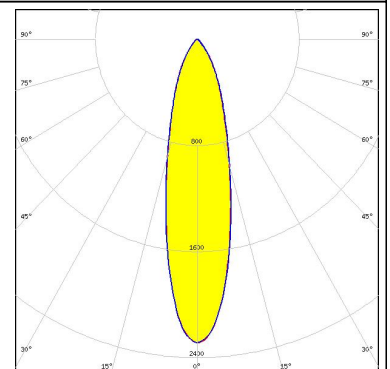
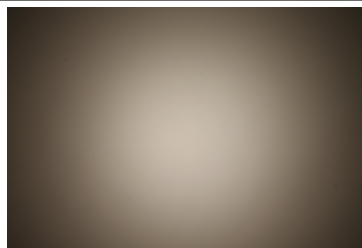
#### CITIZEN

LED CLL02x/CLU02x (LES10)  
 FWHM 32.0°  
 Efficiency 81 %  
 Peak intensity 1.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13723\_MIRELLA-RZL



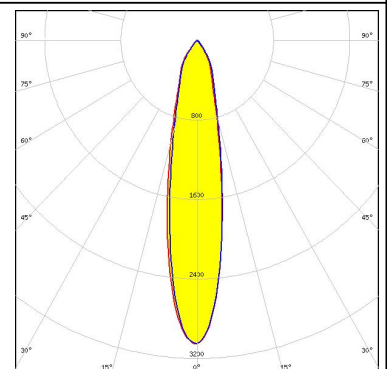
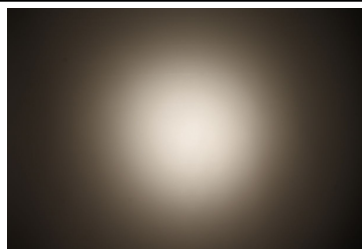
#### CITIZEN

LED CLU700/701/702  
 FWHM 26.0°  
 Efficiency 83 %  
 Peak intensity 2.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13723\_MIRELLA-RZL



#### CITIZEN

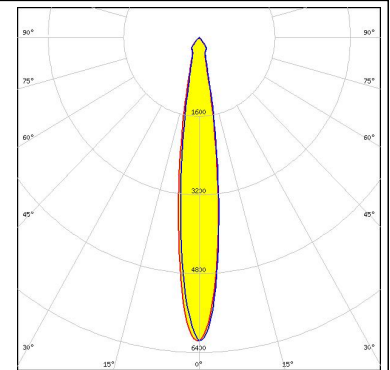
LED CLU700/701/702  
 FWHM 21.0°  
 Efficiency 84 %  
 Peak intensity 3.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12479\_MIRELLA-DL



#### PHOTOMETRIC DATA (MEASURED):

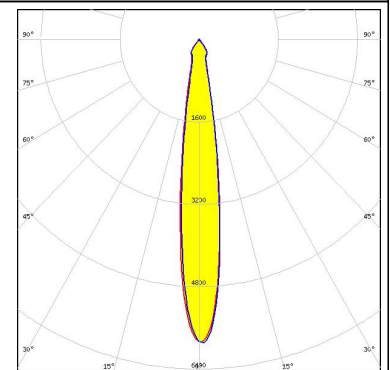
#### CITIZEN

LED CLU700/701/702  
 FWHM 15.0°  
 Efficiency 90 %  
 Peak intensity 6.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



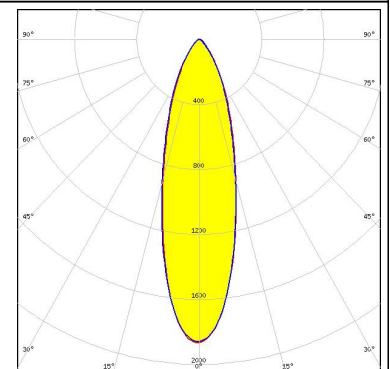
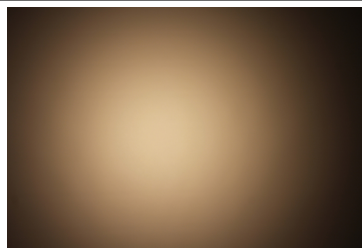
#### CITIZEN

LED CLU700/701/702  
 FWHM 15.0°  
 Efficiency 85 %  
 Peak intensity 5.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13333\_MIRELLA-CL



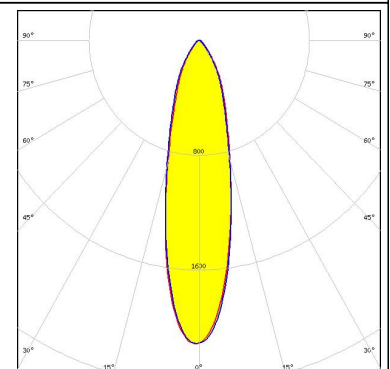
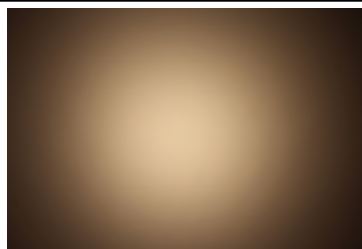
#### CITIZEN

LED CLU710/711  
 FWHM 29.0°  
 Efficiency 83 %  
 Peak intensity 1.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13723\_MIRELLA-RZL



#### CITIZEN

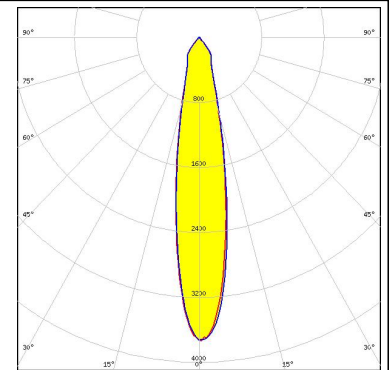
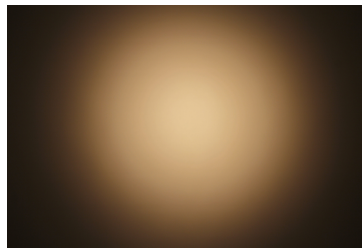
LED CLU710/711  
 FWHM 26.0°  
 Efficiency 83 %  
 Peak intensity 2.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12479\_MIRELLA-DL



#### PHOTOMETRIC DATA (MEASURED):

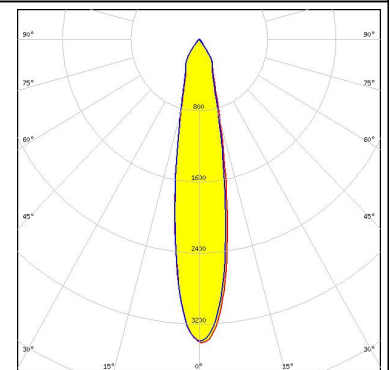
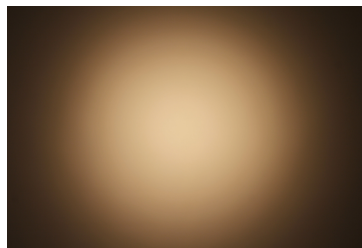
#### CITIZEN

LED CLU710/711  
 FWHM 20.0°  
 Efficiency 90 %  
 Peak intensity 3.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



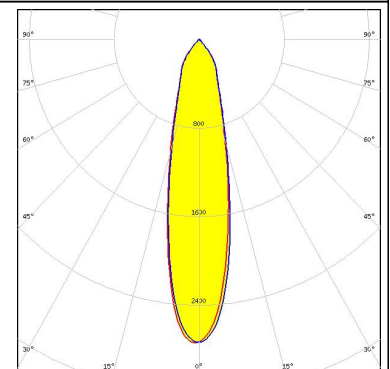
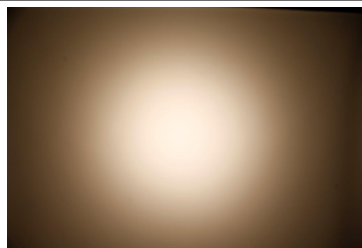
#### CITIZEN

LED CLU710/711  
 FWHM 20.0°  
 Efficiency 85 %  
 Peak intensity 3.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13333\_MIRELLA-CL



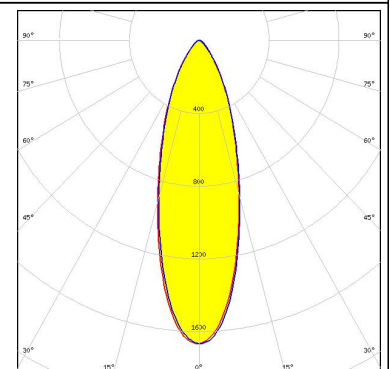
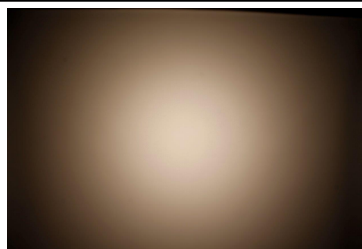
#### CITIZEN

LED CLU720/721  
 FWHM 24.0°  
 Efficiency 90 %  
 Peak intensity 2.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### CITIZEN

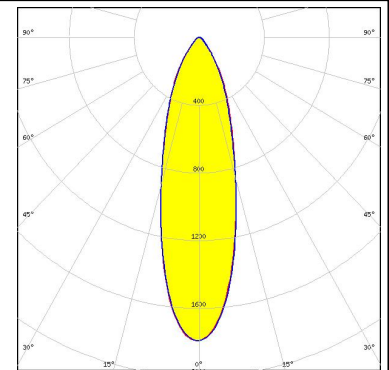
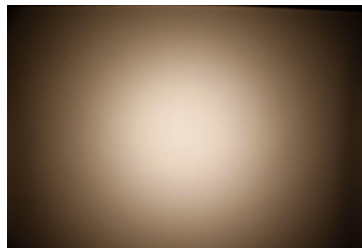
LED CLU720/721  
 FWHM 32.0°  
 Efficiency 83 %  
 Peak intensity 1.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13723\_MIRELLA-RZL



#### PHOTOMETRIC DATA (MEASURED):

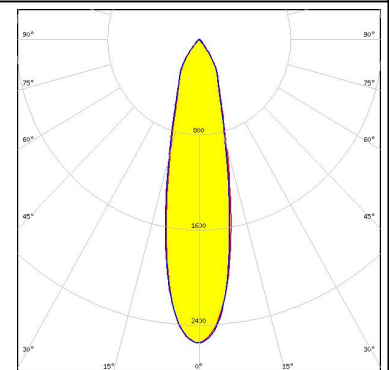
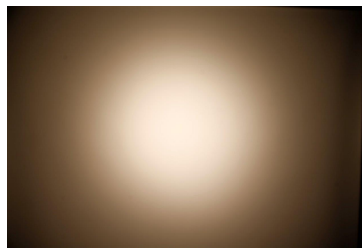
#### CITIZEN

LED CLU720/721  
 FWHM 30.0°  
 Efficiency 82 %  
 Peak intensity 1.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12479\_MIRELLA-DL



#### CITIZEN

LED CLU720/721  
 FWHM 25.0°  
 Efficiency 85 %  
 Peak intensity 2.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13333\_MIRELLA-CL



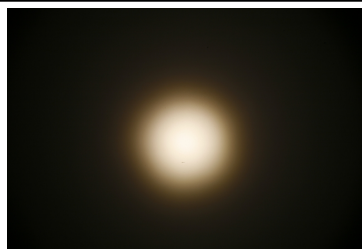
#### CREE

LED CXA/B 13xx  
 FWHM 15.0°  
 Efficiency 81 %  
 Peak intensity 5.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12479\_MIRELLA-DL



#### CREE

LED CXA/B 13xx  
 FWHM 12.0°  
 Efficiency 87 %  
 Peak intensity 9.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

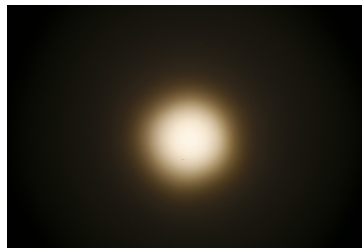




#### PHOTOMETRIC DATA (MEASURED):

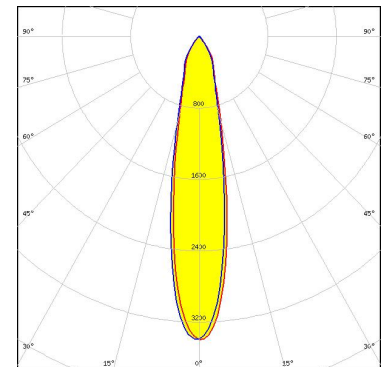
#### CREE

LED CXA/B 13xx  
 FWHM 12.0°  
 Efficiency 82 %  
 Peak intensity 8.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13333\_MIRELLA-CL



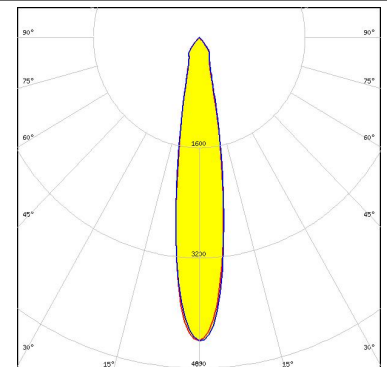
#### CREE

LED CXA/B 15xx  
 FWHM 20.0°  
 Efficiency 90 %  
 Peak intensity 3.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12479\_MIRELLA-DL



#### CREE

LED CXA/B 15xx  
 FWHM 16.0°  
 Efficiency 93 %  
 Peak intensity 5.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### CREE

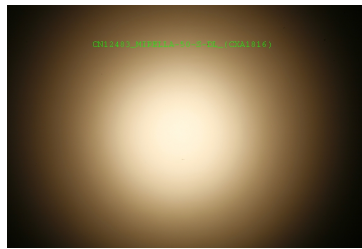
LED CXA/B 15xx  
 FWHM 19.0°  
 Efficiency 84 %  
 Peak intensity 4.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13333\_MIRELLA-CL



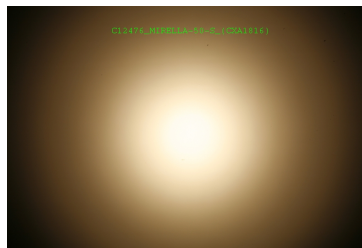
#### PHOTOMETRIC DATA (MEASURED):



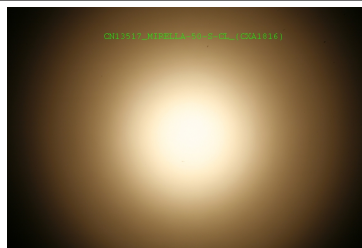
LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
 FWHM 26.0°  
 Efficiency 83 %  
 Peak intensity 2.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12479\_MIRELLA-DL



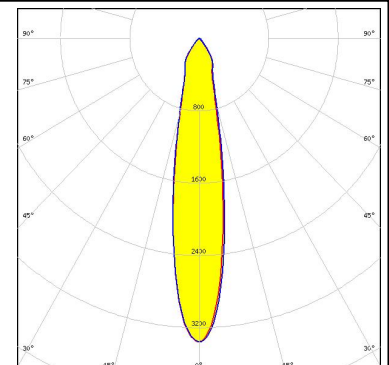
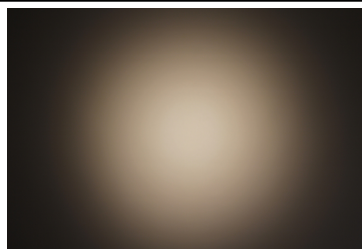
LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
 FWHM 23.0°  
 Efficiency 89 %  
 Peak intensity 3.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
 FWHM 25.0°  
 Efficiency 83 %  
 Peak intensity 2.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13333\_MIRELLA-CL



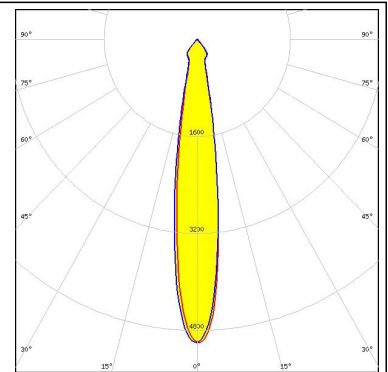
LED MHD-E/G  
 FWHM 20.0°  
 Efficiency 88 %  
 Peak intensity 3.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12479\_MIRELLA-DL



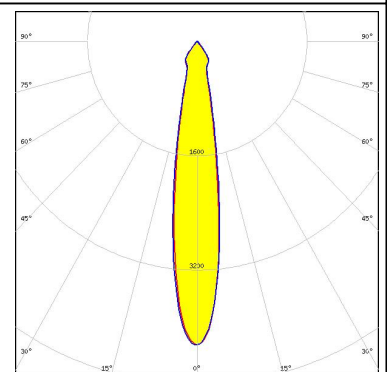
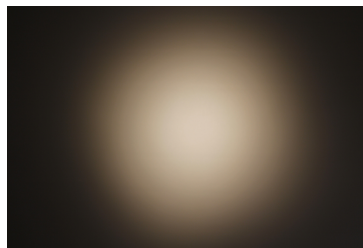
#### PHOTOMETRIC DATA (MEASURED):



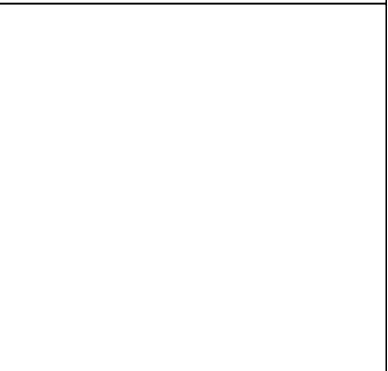
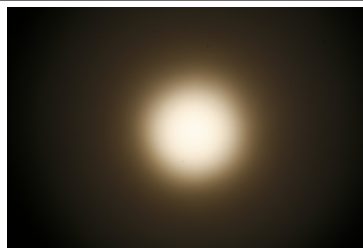
LED MHD-E/G  
 FWHM 16.0°  
 Efficiency 94 %  
 Peak intensity 5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



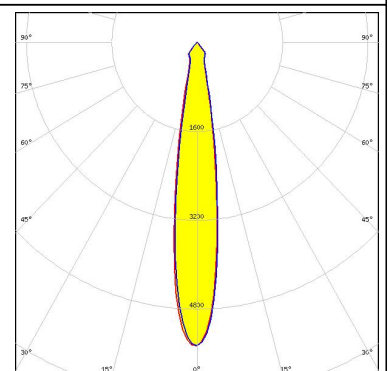
LED MHD-E/G  
 FWHM 18.0°  
 Efficiency 89 %  
 Peak intensity 4.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13333\_MIRELLA-CL



LED MT-G2  
 FWHM 18.0°  
 Efficiency 85 %  
 Peak intensity 4.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13333\_MIRELLA-CL



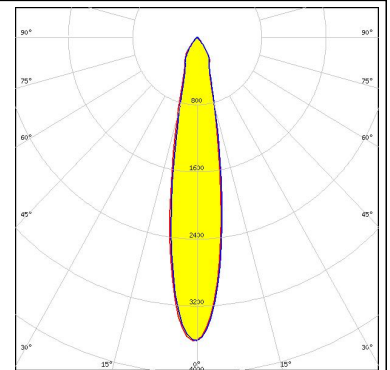
LED MT-G2  
 FWHM 17.0°  
 Efficiency 92 %  
 Peak intensity 5.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHOTOMETRIC DATA (MEASURED):

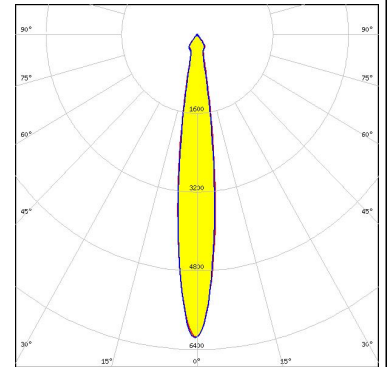
**CREE** 

LED MT-G2  
 FWHM 20.0°  
 Efficiency 85 %  
 Peak intensity 3.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12479\_MIRELLA-DL



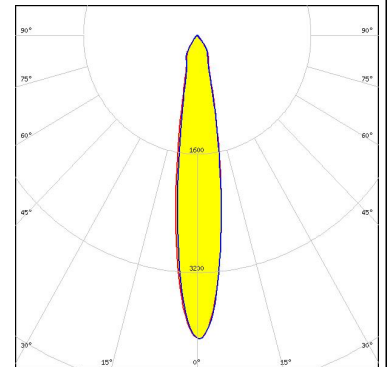
**CREE** 

LED XHP50  
 FWHM 14.0°  
 Efficiency 86 %  
 Peak intensity 6.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13333\_MIRELLA-CL



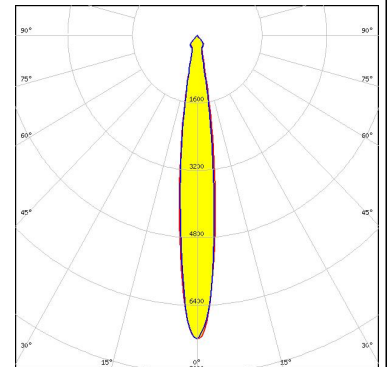
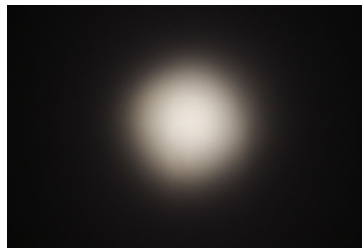
**CREE** 

LED XHP50  
 FWHM 17.0°  
 Efficiency 85 %  
 Peak intensity 4.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12479\_MIRELLA-DL



**CREE** 

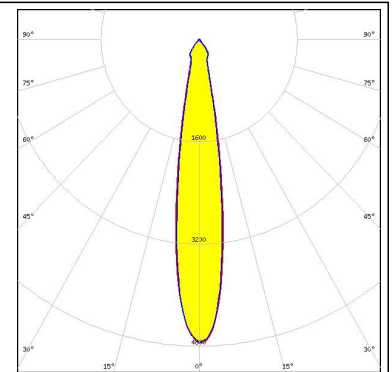
LED XHP50  
 FWHM 14.0°  
 Efficiency 92 %  
 Peak intensity 7.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



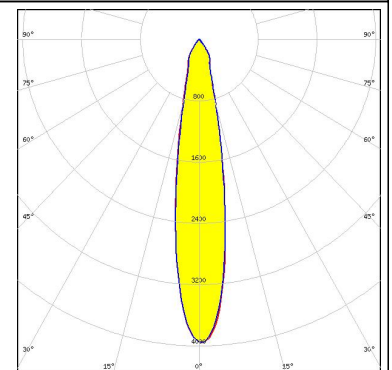
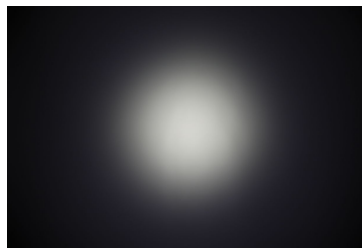
#### PHOTOMETRIC DATA (MEASURED):



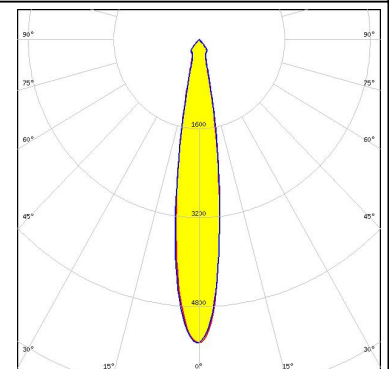
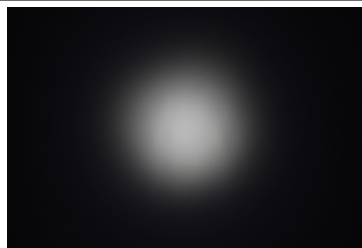
LED XHP70  
 FWHM 18.0°  
 Efficiency 86 %  
 Peak intensity 4.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13333\_MIRELLA-CL



LED XHP70  
 FWHM 19.0°  
 Efficiency 86 %  
 Peak intensity 4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12479\_MIRELLA-DL




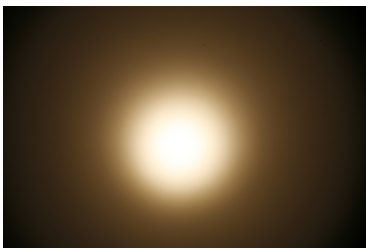

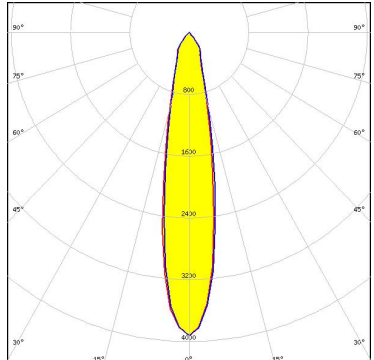

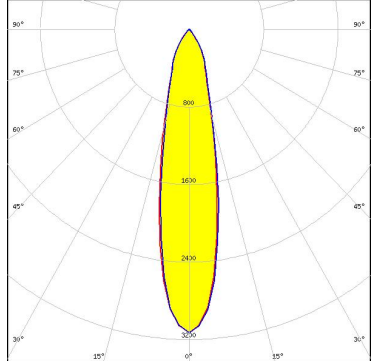
LED XHP70  
 FWHM 17.0°  
 Efficiency 90 %  
 Peak intensity 5.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED COB 4W  
 FWHM 15.0°  
 Efficiency 85 %  
 Peak intensity 6.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13333\_MIRELLA-CL



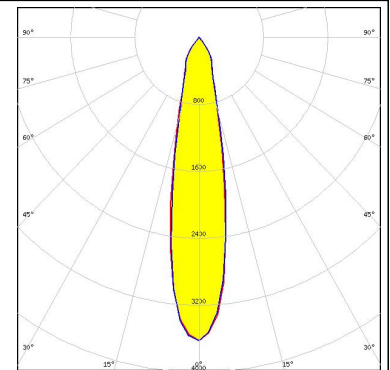
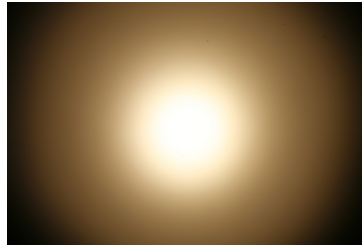
#### PHOTOMETRIC DATA (MEASURED):

<p><b>LG Innotek</b></p> <p>LED COB 4W            FWHM 17.0°            Efficiency 86 %            Peak intensity 4.4 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C12479_MIRELLA-DL</p>		
<p><b>LG Innotek</b></p> <p>LED COB 4W            FWHM 14.0°            Efficiency 91 %            Peak intensity 6.7 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1202/1203            FWHM 20.0°            Efficiency 89 %            Peak intensity 3.9 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1202/1203            FWHM 23.0°            Efficiency 85 %            Peak intensity 3.1 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C12479_MIRELLA-DL</p>		

#### PHOTOMETRIC DATA (MEASURED):

#### LUMILEDS

LED LUXEON CoB 1202/1203  
FWHM 21.0°  
Efficiency 86 %  
Peak intensity 3.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13333\_MIRELLA-CL



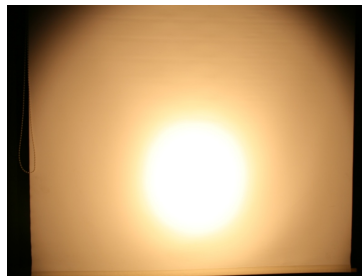
#### LUMILEDS

LED LUXEON S1000  
FWHM 21.0°  
Efficiency %  
LEDs/each optic 1  
Light colour White  
Required components:  
C12479\_MIRELLA-DL



#### LUMILEDS

LED LUXEON S1000  
FWHM 17.0°  
Efficiency %  
LEDs/each optic 1  
Light colour White  
Required components:



#### LUMILEDS

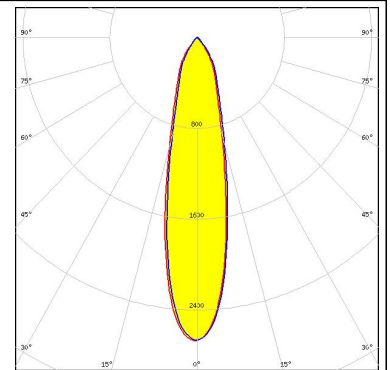
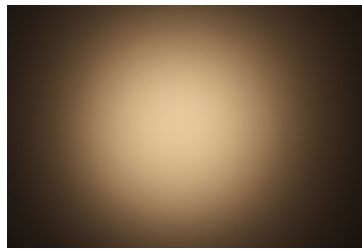
LED LUXEON S1000  
FWHM 14.0°  
Efficiency 84 %  
Peak intensity 5.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13333\_MIRELLA-CL



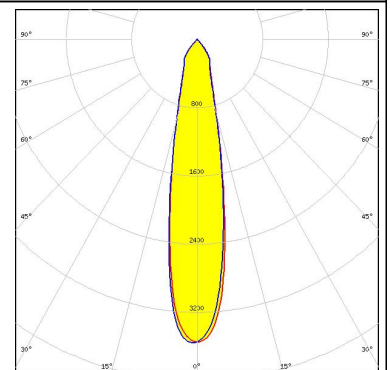
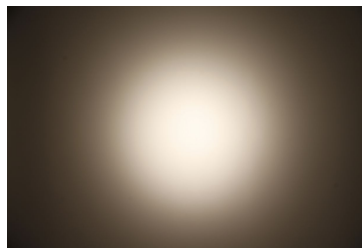
#### PHOTOMETRIC DATA (MEASURED):



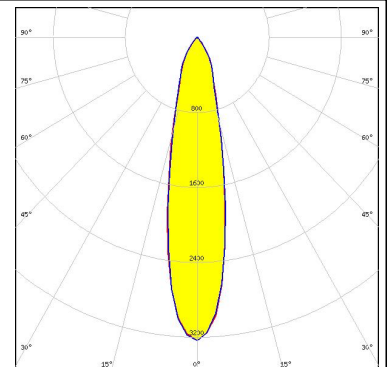
LED CxM-9 (13.5x13.5)  
 FWHM 24.0°  
 Efficiency 84 %  
 Peak intensity 2.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12479\_MIRELLA-DL



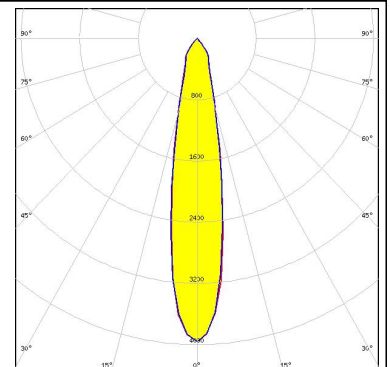
LED CxM-9 (13.5x13.5)  
 FWHM 21.0°  
 Efficiency 90 %  
 Peak intensity 3.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED COB L-Type (LES 9)  
 FWHM 23.0°  
 Efficiency 86 %  
 Peak intensity 3.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12479\_MIRELLA-DL


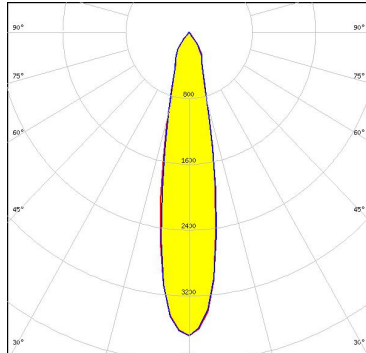

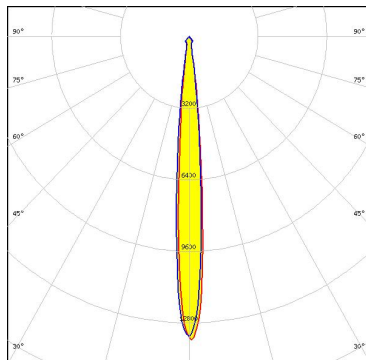

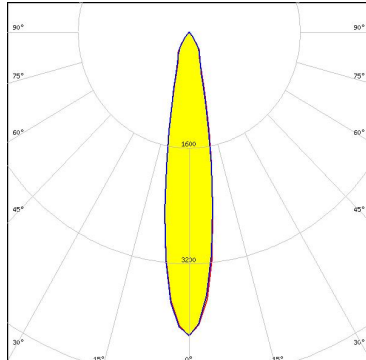

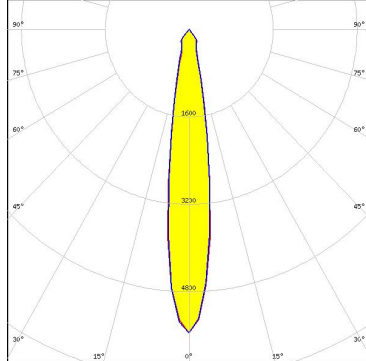


LED COB L-Type (LES 9)  
 FWHM 20.0°  
 Efficiency 90 %  
 Peak intensity 4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:


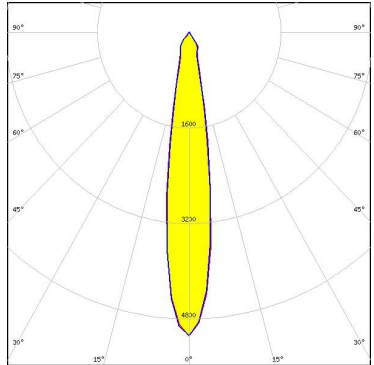
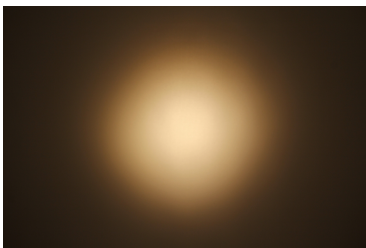






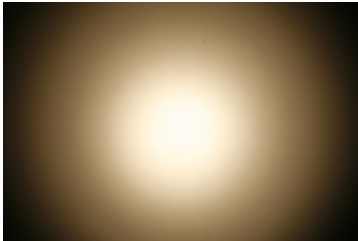
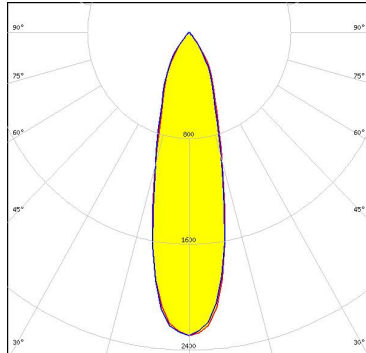
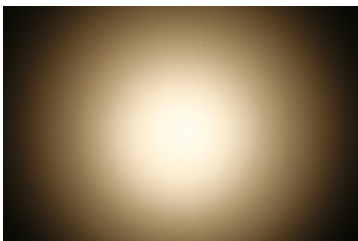
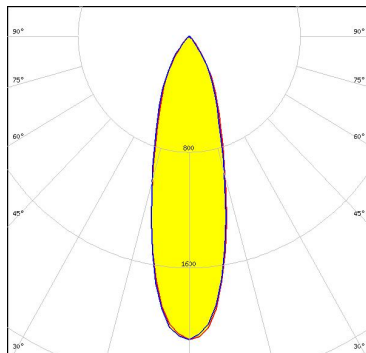
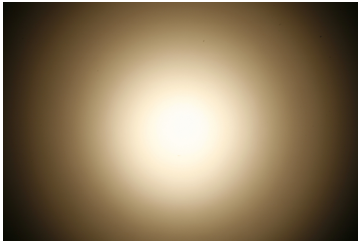
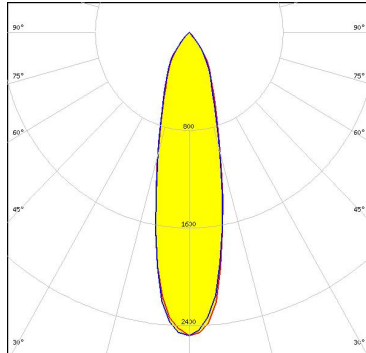

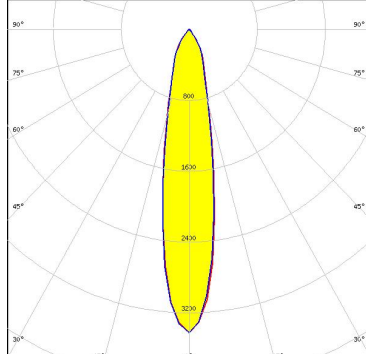
#### PHOTOMETRIC DATA (MEASURED):

<p><b>NICHIA</b></p> <p>LED COB L-Type (LES 9)</p> <p>FWHM 22.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 3.7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13333_MIRELLA-CL</p>		
<p><b>NICHIA</b></p> <p>LED NFMW48xA</p> <p>FWHM 9.5°</p> <p>Efficiency 88 %</p> <p>Peak intensity 13.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p><b>NICHIA</b></p> <p>LED NSCxL036A</p> <p>FWHM 19.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 4.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C12479_MIRELLA-DL</p>		
<p><b>NICHIA</b></p> <p>LED NSCxL036A</p> <p>FWHM 17.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 5.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		


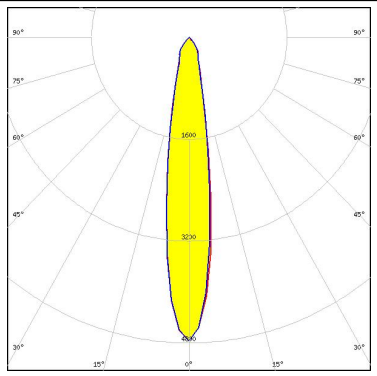

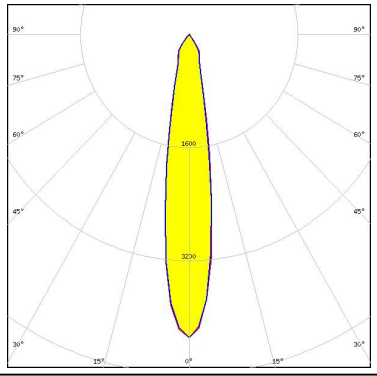

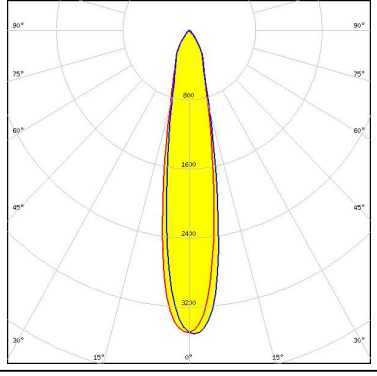

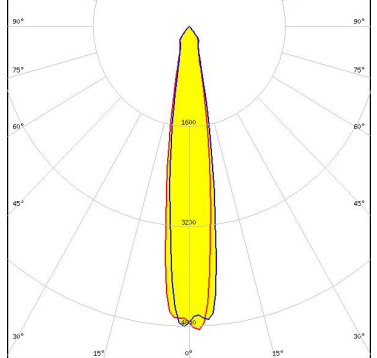
#### PHOTOMETRIC DATA (MEASURED):

<p><b>NICHIA</b></p> <p>LED NSCxL036A            FWHM 17.0°            Efficiency 84 %            Peak intensity 5 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C13333_MIRELLA-CL</p>		
<p><b>OSRAM</b>  <small>Opto Semiconductors</small></p> <p>LED Duris S10            FWHM 15.0°            Efficiency 83 %            Peak intensity 6.7 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C13333_MIRELLA-CL</p>		
<p><b>OSRAM</b>  <small>Opto Semiconductors</small></p> <p>LED Duris S10            FWHM 20.0°            Efficiency 81 %            Peak intensity 3.4 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C12479_MIRELLA-DL</p>		
<p><b>OSRAM</b>  <small>Opto Semiconductors</small></p> <p>LED Duris S10            FWHM 15.0°            Efficiency 89 %            Peak intensity 6.5 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		

#### PHOTOMETRIC DATA (MEASURED):

<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED Soleriq S13            FWHM 28.0°            Efficiency 82 %            Peak intensity 2.3 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C13333_MIRELLA-CL</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED Soleriq S13            FWHM 30.0°            Efficiency 83 %            Peak intensity 2.1 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C12479_MIRELLA-DL</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED Soleriq S13            FWHM 27.0°            Efficiency 87 %            Peak intensity 2.5 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>SEOUL SEMICONDUCTOR</b></p> <p>LED ZC4/6            FWHM 21.0°            Efficiency 83 %            Peak intensity 3.4 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C12479_MIRELLA-DL</p>		

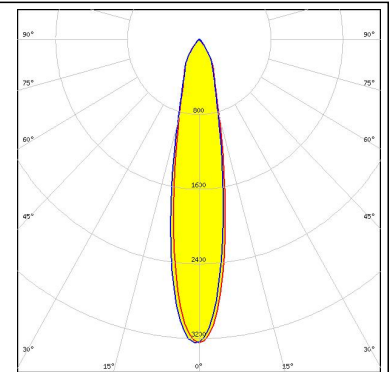
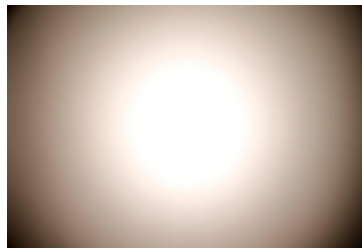
#### PHOTOMETRIC DATA (MEASURED):

<p><b>SEOL</b> SEOUL SEMICONDUCTOR</p> <p>LED ZC4/6 FWHM 18.0° Efficiency 88 % Peak intensity 4.8 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p><b>SEOL</b> SEOUL SEMICONDUCTOR</p> <p>LED ZC4/6 FWHM 19.0° Efficiency 82 % Peak intensity 4.3 cd/lm LEDs/each optic 1 Light colour White Required components: C13333_MIRELLA-CL</p>		
<p><b>SHARP</b></p> <p>LED Mini Zenigata (GW5BM) FWHM 20.0° Efficiency 86 % Peak intensity 3.5 cd/lm LEDs/each optic 1 Light colour White Required components: C12479_MIRELLA-DL</p>		
<p><b>SHARP</b></p> <p>LED Mini Zenigata (GW5BM) FWHM 17.0° Efficiency 92 % Peak intensity 4.8 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		

#### PHOTOMETRIC DATA (MEASURED):

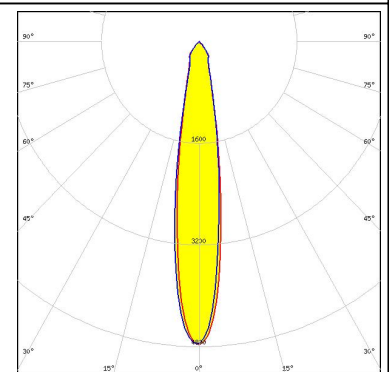
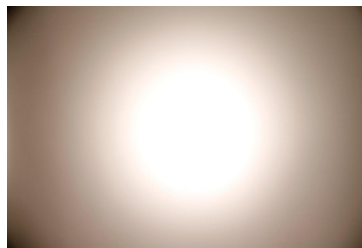
### SHARP

LED Mini Zenigata (GW6BM)  
FWHM 20.0°  
Efficiency 84 %  
Peak intensity 3.2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C12479\_MIRELLA-DL

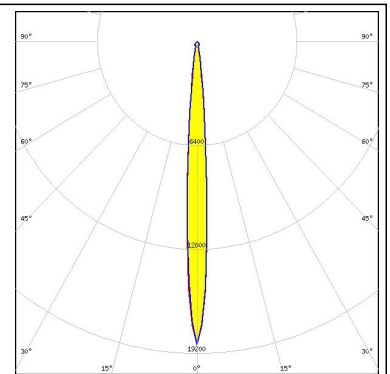
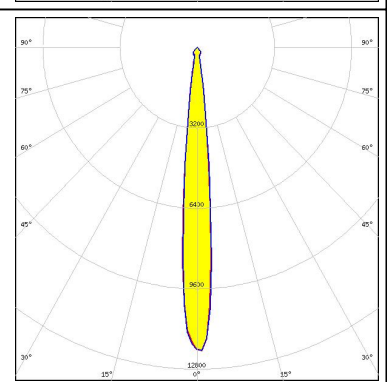
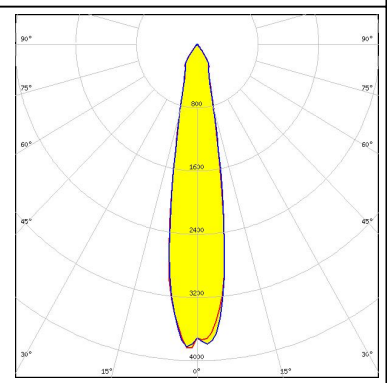
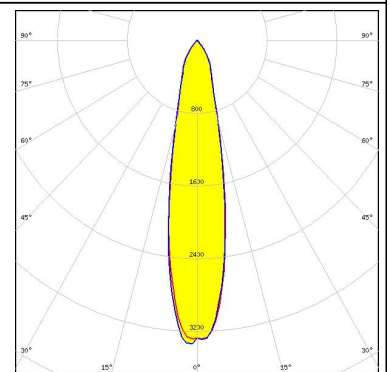


### SHARP

LED Mini Zenigata (GW6BM)  
FWHM 17.0°  
Efficiency 91 %  
Peak intensity 4.8 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



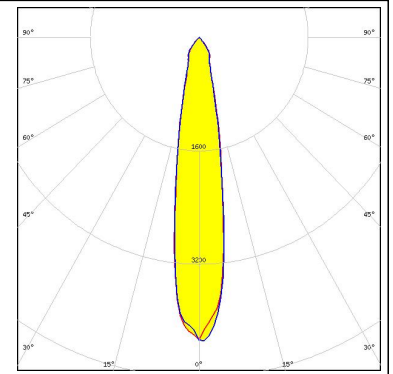
#### PHOTOMETRIC DATA (SIMULATED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON V            FWHM 7.7°            Efficiency 89 %            Peak intensity 18.7 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>OSRAM</b>  <small>Opto Semiconductors</small></p> <p>LED OSCONIQ P 7070            FWHM 11.0°            Efficiency 91 %            Peak intensity 12.2 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>OSRAM</b>  <small>Opto Semiconductors</small></p> <p>LED Soleriq S9            FWHM 20.0°            Efficiency 87 %            Peak intensity 3.9 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C13333_MIRELLA-CL</p>	
<p><b>OSRAM</b>  <small>Opto Semiconductors</small></p> <p>LED Soleriq S9            FWHM 21.0°            Efficiency 86 %            Peak intensity 3.4 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C12479_MIRELLA-DL</p>	

## PHOTOMETRIC DATA (SIMULATED):

**OSRAM**  
Opto Semiconductors

LED	Soleriq S9
FWHM	19.0°
Efficiency	91 %
Peak intensity	4.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



#### 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.

Due to use of high power COB's with this product, special attention to proper thermal design is highly recommended. LEDiL has no liability for direct, indirect or consecutive damages arising from the LEDiL products being used outside of the recommended temperature range.

#### 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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[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)