

## MIRELLA-50-W

~40° wide beam

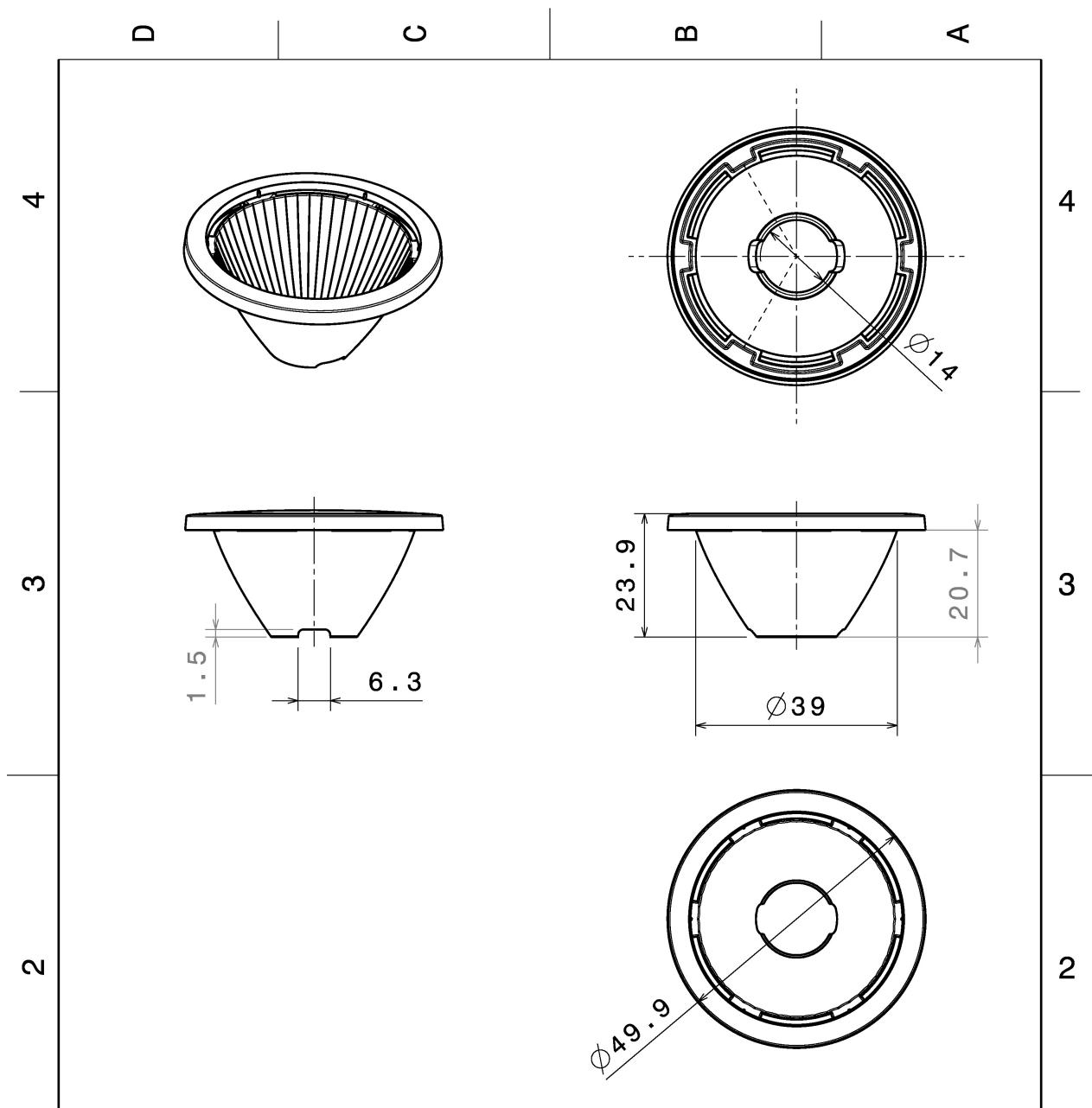
### TECHNICAL SPECIFICATIONS:

Dimensions	Ø 49.9 mm
Height	23.9 mm
Fastening	glue
Colour	metal
Box size	480 x 280 x 300 mm
Box weight	3 kg
Quantity in Box	336 pcs
ROHS compliant	yes ⓘ




### MATERIAL SPECIFICATIONS:

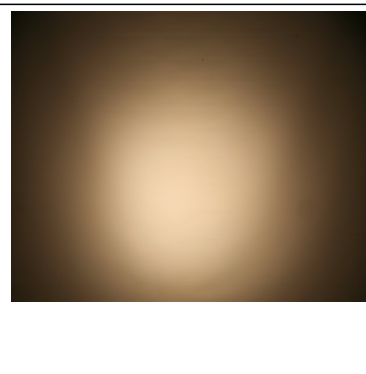
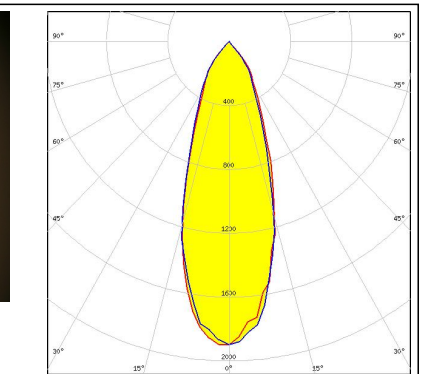
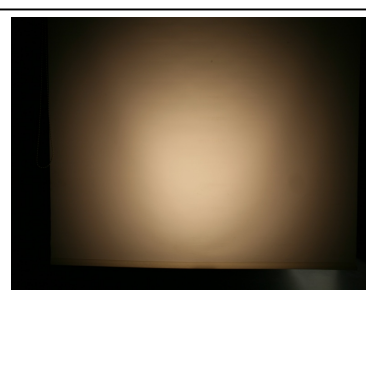
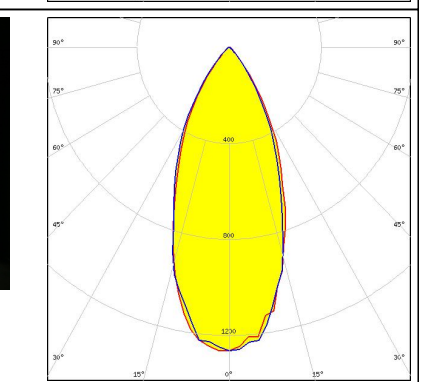




Component	Type	Material	Colour	Coating
MIRELLA-50-W	Reflector	PC	metal	lacquer



Material: PC, metal plated

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DRAWING TITLE				
DRAWN BY pl	DATE 25.11.2011	Datasheet Mirella reflector		
CHECKED BY	DATE	SIZE A4	DRAWING NUMBER	REV 1
DESIGNED BY pl	DATE 25.11.2011	SCALE 1:1	WEIGHT (g)	SHEET 1/1

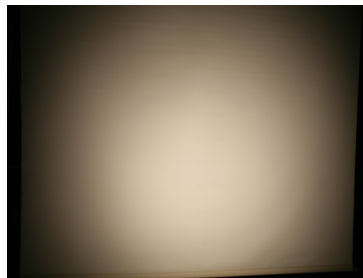
**PHOTOMETRIC DATA (MEASURED):**

<p>bridgelux.</p> <p>LED BXRA LS FWHM 35.0° Efficiency 88 % Peak intensity 1.900 cd/lm Required components:</p>		
<p>bridgelux.</p> <p>LED BXRA LS FWHM 43.0° Efficiency 82 % Peak intensity 1.300 cd/lm Required components: C12479_MIRELLA-DL</p>		
<p>bridgelux.</p> <p>LED BXRA LS FWHM 42.0° Efficiency 84 % Peak intensity 1.400 cd/lm Required components: C13333_MIRELLA-CL</p>		
<p><b>CITIZEN</b></p> <p>LED CLL01x FWHM 48.0° Efficiency 84 % Peak intensity 1.200 cd/lm Required components: C13333_MIRELLA-CL</p>		

#### PHOTOMETRIC DATA (MEASURED):

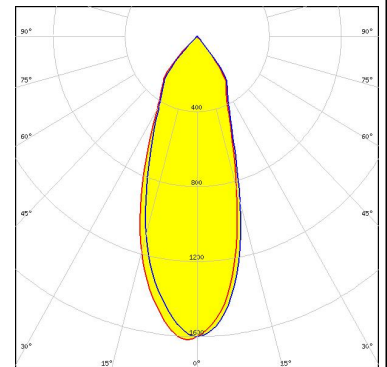
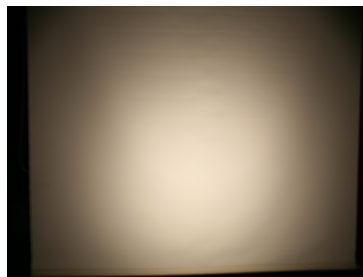
#### CITIZEN

LED CLL01x  
FWHM 50.0°  
Efficiency %  
Peak intensity cd/lm  
Required components:  
C12479\_MIRELLA-DL



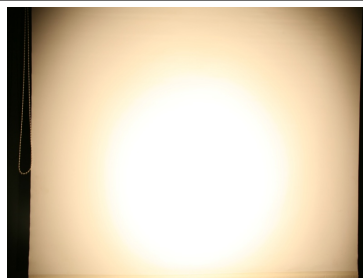
#### CITIZEN

LED CLL01x  
FWHM 44.0°  
Efficiency %  
Peak intensity cd/lm  
Required components:



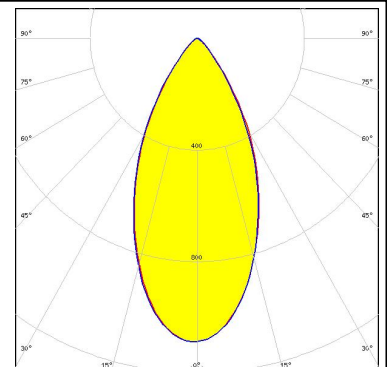
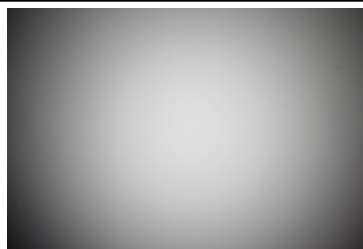
#### CITIZEN

LED CLL02x/CLU02x (LES10)  
FWHM 42.0°  
Efficiency 90 %  
Peak intensity cd/lm  
Required components:



#### CITIZEN

LED CLL02x/CLU02x (LES10)  
FWHM 50.0°  
Efficiency 83 %  
Peak intensity 1.090 cd/lm  
Required components:  
C12479\_MIRELLA-DL

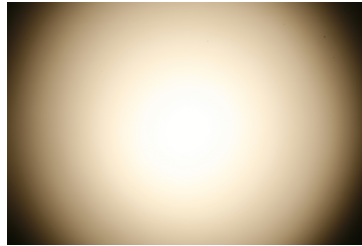




#### PHOTOMETRIC DATA (MEASURED):

#### CITIZEN

LED CLL02x/CLU02x (LES10)  
FWHM 46.0°  
Efficiency 84 %  
Peak intensity 1.200 cd/lm  
Required components:  
C13333\_MIRELLA-CL



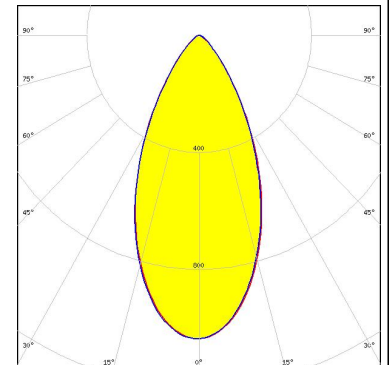
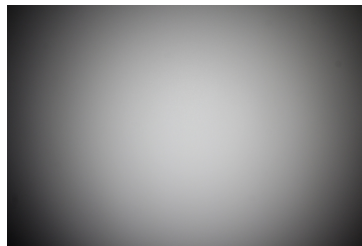
#### CITIZEN

LED CLL02x/CLU02x (LES10)  
FWHM 48.0°  
Efficiency 82 %  
Peak intensity cd/lm  
Required components:  
C12479\_MIRELLA-DL



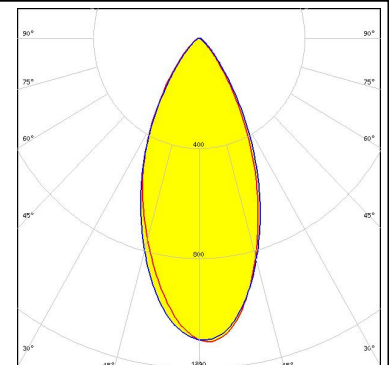
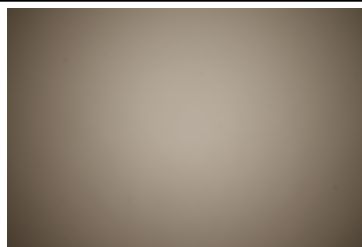
#### CITIZEN

LED CLL02x/CLU02x (LES10)  
FWHM 50.0°  
Efficiency 82 %  
Peak intensity 1.040 cd/lm  
Required components:  
C13723\_MIRELLA-RZL



#### CITIZEN

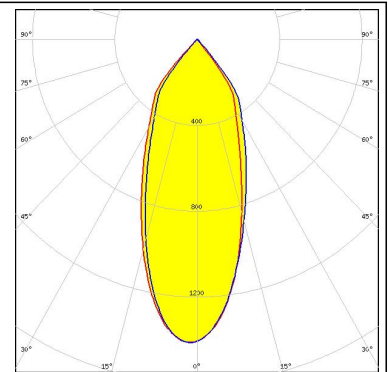
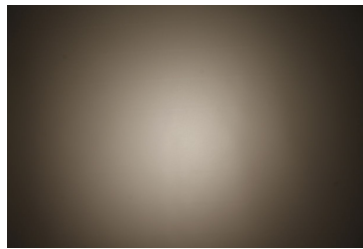
LED CLU700/701  
FWHM 46.0°  
Efficiency 80 %  
Peak intensity 1.100 cd/lm  
Required components:  
C13723\_MIRELLA-RZL



#### PHOTOMETRIC DATA (MEASURED):

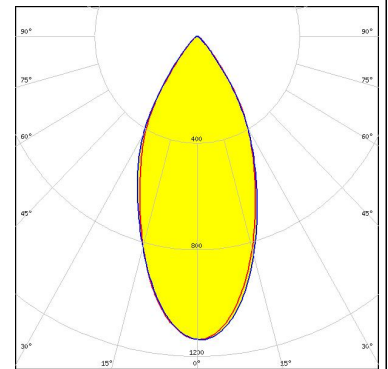
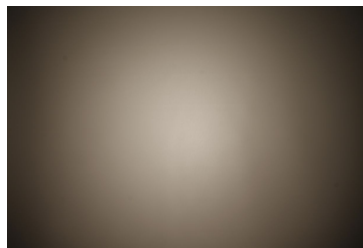
#### CITIZEN

LED CLU700/701  
FWHM 40.0°  
Efficiency 88 %  
Peak intensity 1.400 cd/lm  
Required components:



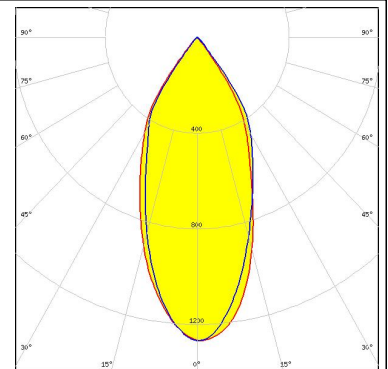
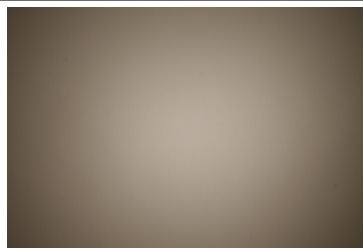
#### CITIZEN

LED CLU700/701  
FWHM 47.0°  
Efficiency 82 %  
Peak intensity 1.100 cd/lm  
Required components:  
C12479\_MIRELLA-DL



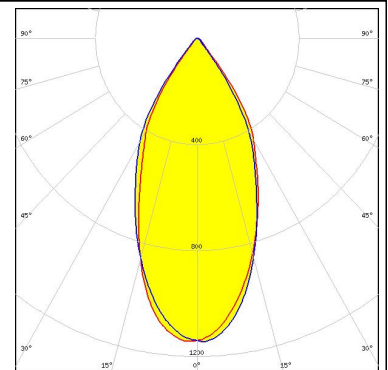
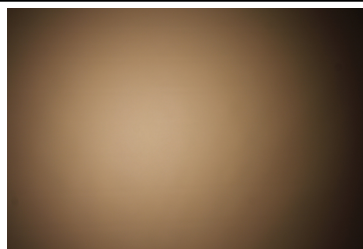
#### CITIZEN

LED CLU700/701  
FWHM 44.0°  
Efficiency 82 %  
Peak intensity 1.300 cd/lm  
Required components:  
C13333\_MIRELLA-CL



#### CITIZEN

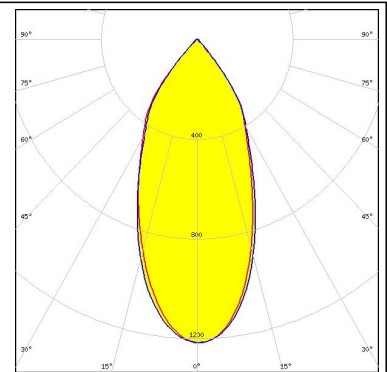
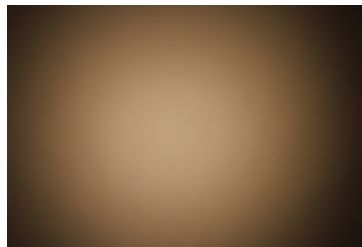
LED CLU710/711  
FWHM 48.0°  
Efficiency 83 %  
Peak intensity 1.100 cd/lm  
Required components:  
C13333\_MIRELLA-CL



#### PHOTOMETRIC DATA (MEASURED):

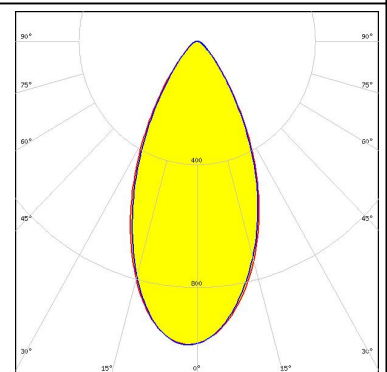
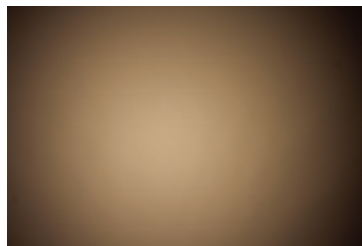
#### CITIZEN

LED CLU710/711  
 FWHM 46.0°  
 Efficiency 88 %  
 Peak intensity 1.200 cd/lm  
 Required components:



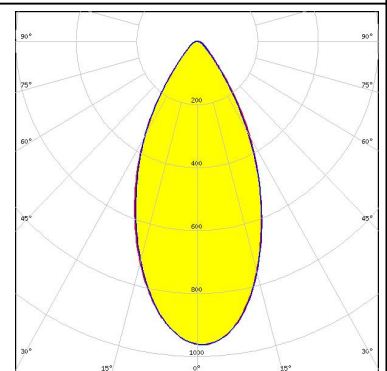
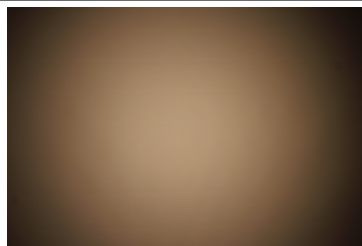
#### CITIZEN

LED CLU710/711  
 FWHM 49.0°  
 Efficiency 80 %  
 Peak intensity 1.000 cd/lm  
 Required components:  
 C13723\_MIRELLA-RZL



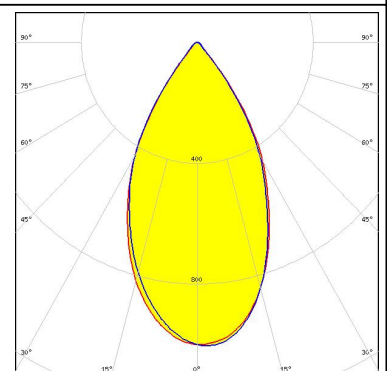
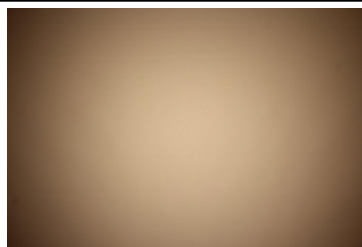
#### CITIZEN

LED CLU710/711  
 FWHM 50.0°  
 Efficiency 79 %  
 Peak intensity 0.960 cd/lm  
 Required components:  
 C12479\_MIRELLA-DL



#### CITIZEN

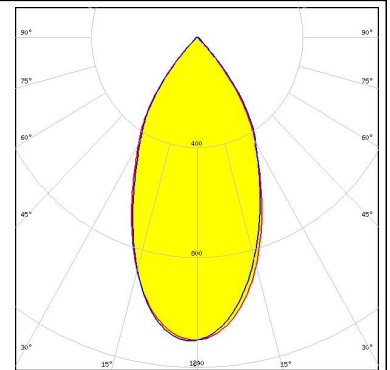
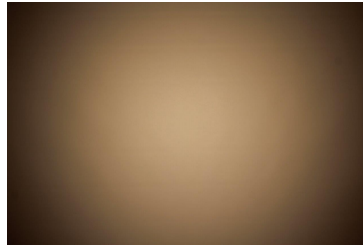
LED CLU720/721  
 FWHM 55.0°  
 Efficiency 83 %  
 Peak intensity 1.000 cd/lm  
 Required components:  
 C13333\_MIRELLA-CL



#### PHOTOMETRIC DATA (MEASURED):

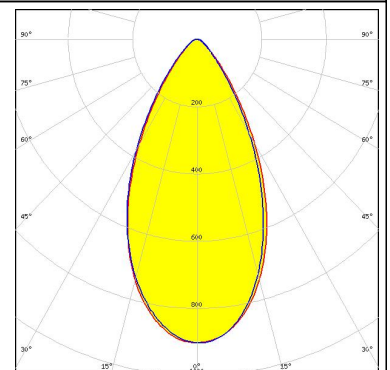
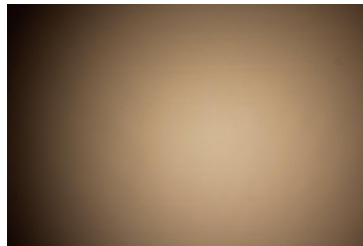
#### CITIZEN

LED CLU720/721  
FWHM 51.0°  
Efficiency 88 %  
Peak intensity 1.100 cd/lm  
Required components:



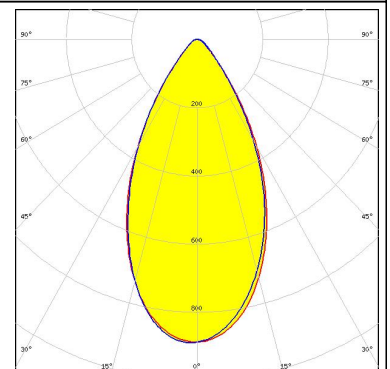
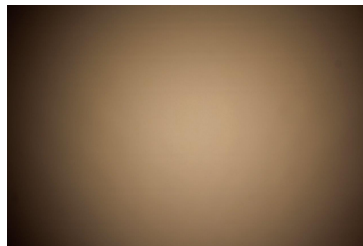
#### CITIZEN

LED CLU720/721  
FWHM 53.0°  
Efficiency 80 %  
Peak intensity 0.900 cd/lm  
Required components:  
C13723\_MIRELLA-RZL



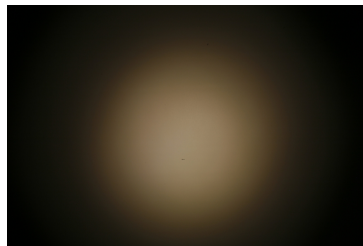
#### CITIZEN

LED CLU720/721  
FWHM 53.0°  
Efficiency 79 %  
Peak intensity 0.890 cd/lm  
Required components:  
C12479\_MIRELLA-DL



#### CREE

LED CXA/B 13xx  
FWHM 42.0°  
Efficiency 81 %  
Peak intensity 1.500 cd/lm  
Required components:  
C13333\_MIRELLA-CL



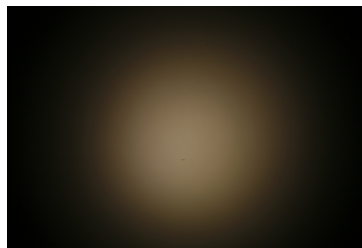
**PHOTOMETRIC DATA (MEASURED):**



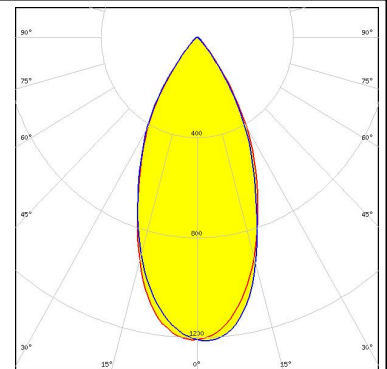
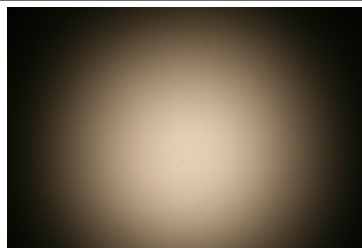
LED CXA/B 13xx  
FWHM 37.0°  
Efficiency 86 %  
Peak intensity 1.800 cd/lm  
Required components:



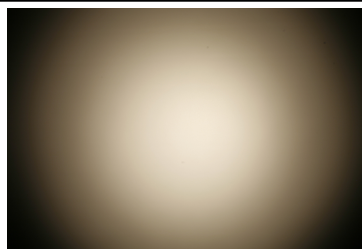
LED CXA/B 13xx  
FWHM 43.0°  
Efficiency 81 %  
Peak intensity 1.400 cd/lm  
Required components:  
C12479\_MIRELLA-DL



LED CXA/B 15xx  
FWHM 50.0°  
Efficiency 87 %  
Peak intensity 1.100 cd/lm  
Required components:  
C12479\_MIRELLA-DL



LED CXA/B 15xx  
FWHM 46.0°  
Efficiency 85 %  
Peak intensity 1.400 cd/lm  
Required components:  
C13333\_MIRELLA-CL

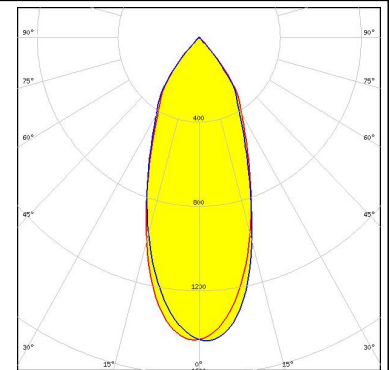




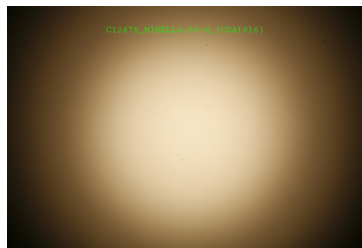
**PHOTOMETRIC DATA (MEASURED):**



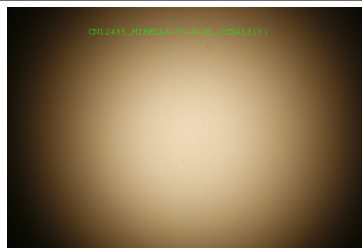
LED CXA/B 15xx  
FWHM 42.0°  
Efficiency 91 %  
Peak intensity 1.400 cd/lm  
Required components:



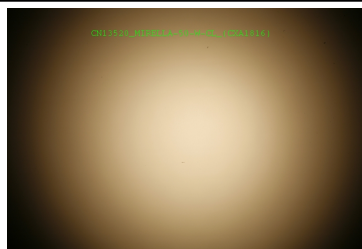
LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
FWHM 52.0°  
Efficiency 87 %  
Peak intensity 1.200 cd/lm  
Required components:



LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
FWHM 52.0°  
Efficiency 82 %  
Peak intensity 1.200 cd/lm  
Required components:  
C12479\_MIRELLA-DL



LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
FWHM 56.0°  
Efficiency 82 %  
Peak intensity 1.100 cd/lm  
Required components:  
C13333\_MIRELLA-CL

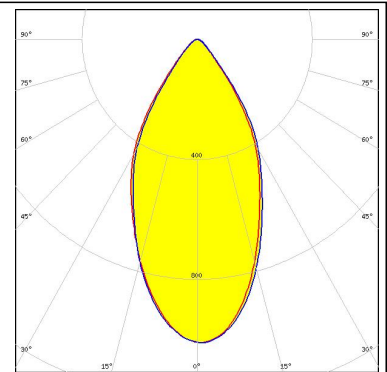
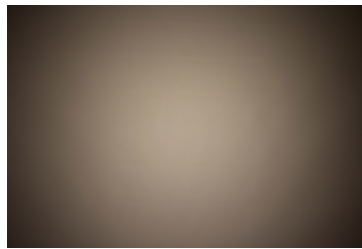




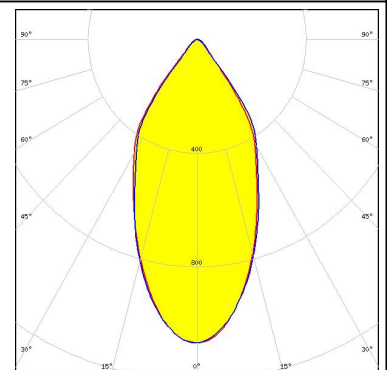
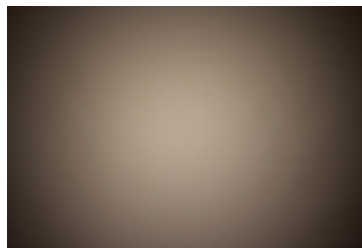
#### PHOTOMETRIC DATA (MEASURED):



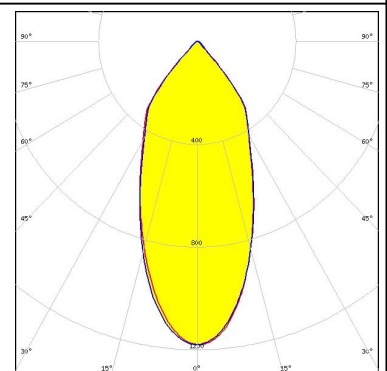
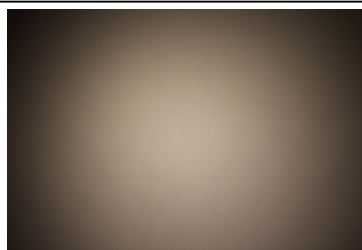
LED MHD-E/G  
 FWHM 52.0°  
 Efficiency 87 %  
 Peak intensity 1.000 cd/lm  
 Required components:  
 C12479\_MIRELLA-DL



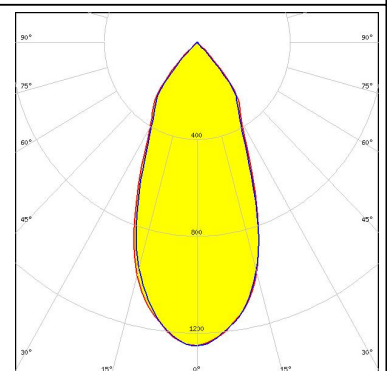
LED MHD-E/G  
 FWHM 50.0°  
 Efficiency 87 %  
 Peak intensity 1.100 cd/lm  
 Required components:  
 C13333\_MIRELLA-CL



LED MHD-E/G  
 FWHM 46.0°  
 Efficiency 92 %  
 Peak intensity 1.200 cd/lm  
 Required components:



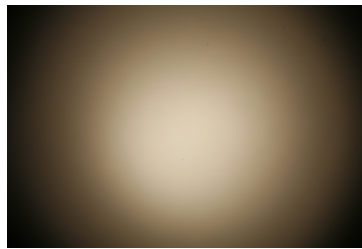
LED MT-G  
 FWHM 46.0°  
 Efficiency 90 %  
 Peak intensity 1.253 cd/lm  
 Required components:



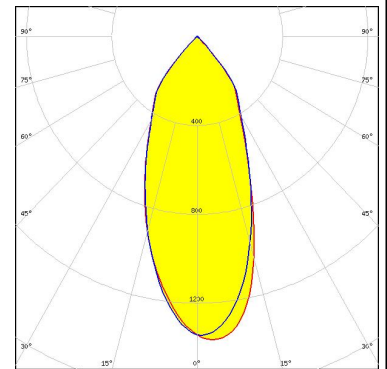
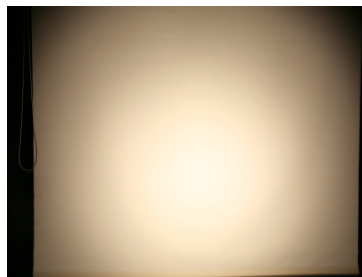
**PHOTOMETRIC DATA (MEASURED):**



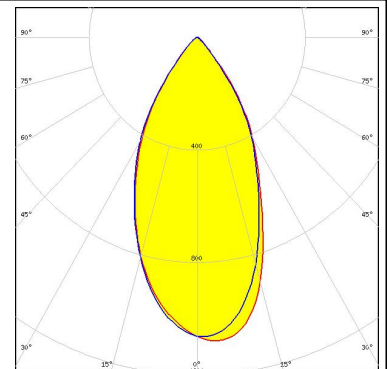
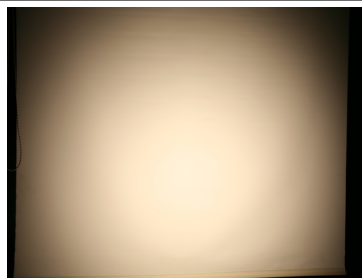
LED MT-G2  
FWHM 50.0°  
Efficiency 84 %  
Peak intensity 1.100 cd/lm  
Required components:  
C13333\_MIRELLA-CL



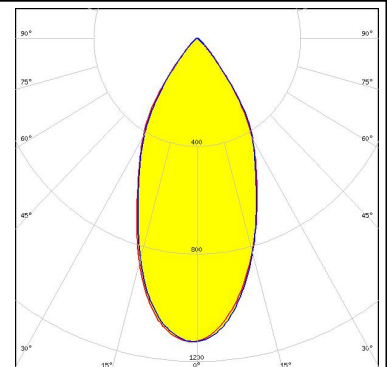
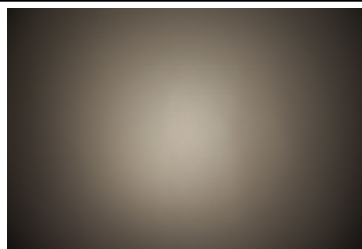
LED MT-G2  
FWHM 46.0°  
Efficiency 91 %  
Peak intensity 1.400 cd/lm  
Required components:



LED MT-G2  
FWHM 52.0°  
Efficiency 83 %  
Peak intensity 1.100 cd/lm  
Required components:  
C12479\_MIRELLA-DL



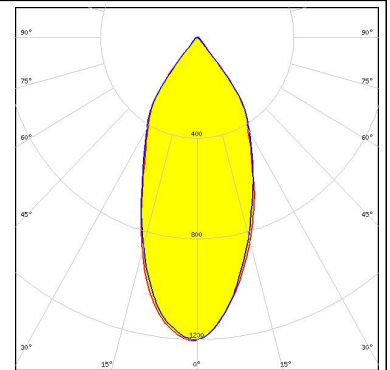
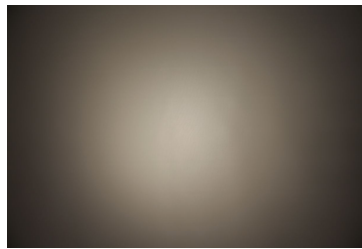
LED XHP50  
FWHM 48.0°  
Efficiency 85 %  
Peak intensity 1.100 cd/lm  
Required components:  
C12479\_MIRELLA-DL



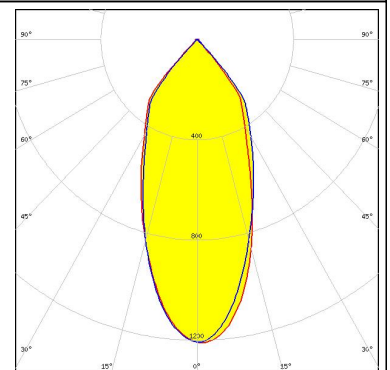
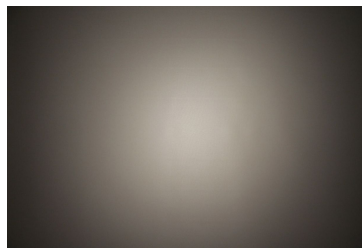
#### PHOTOMETRIC DATA (MEASURED):



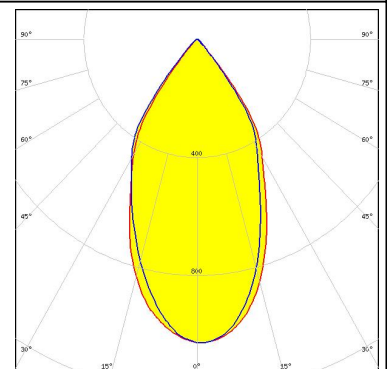
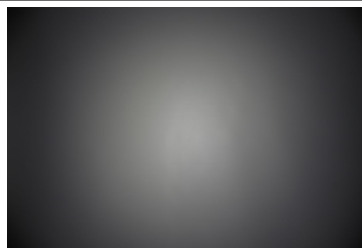
LED XHP50  
 FWHM 45.0°  
 Efficiency 84 %  
 Peak intensity 1.200 cd/lm  
 Required components:  
 C13333\_MIRELLA-CL



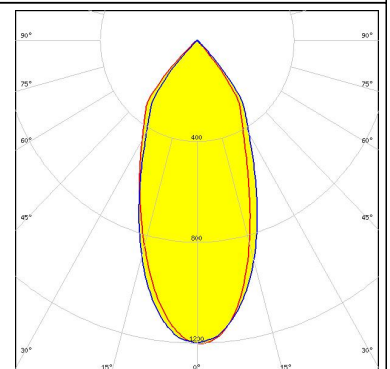
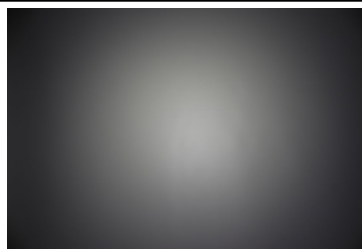
LED XHP50  
 FWHM 45.0°  
 Efficiency 89 %  
 Peak intensity 1.200 cd/lm  
 Required components:



LED XHP70  
 FWHM 53.0°  
 Efficiency 84 %  
 Peak intensity 1.000 cd/lm  
 Required components:  
 C13333\_MIRELLA-CL



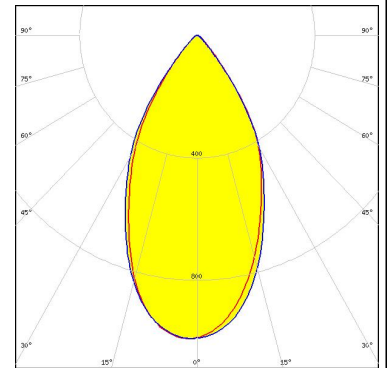
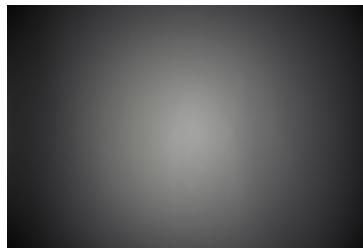
LED XHP70  
 FWHM 45.0°  
 Efficiency 89 %  
 Peak intensity 1.200 cd/lm  
 Required components:



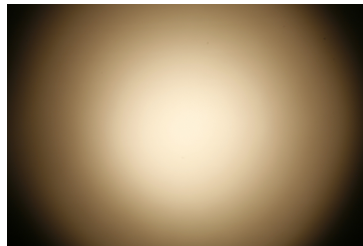
#### PHOTOMETRIC DATA (MEASURED):



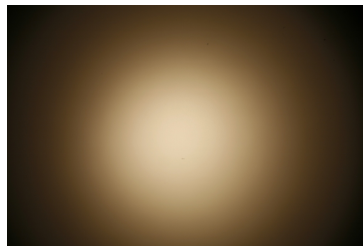
LED XHP70  
FWHM 54.0°  
Efficiency 84 %  
Peak intensity 1.000 cd/lm  
Required components:  
C12479\_MIRELLA-DL



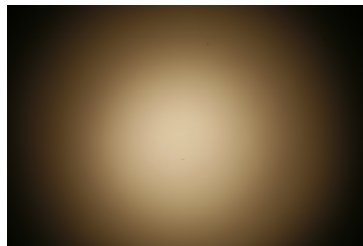
LED COB 4W  
FWHM 41.0°  
Efficiency 84 %  
Peak intensity 1.500 cd/lm  
Required components:  
C13333\_MIRELLA-CL



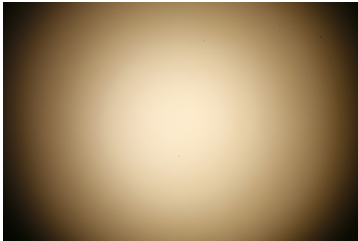
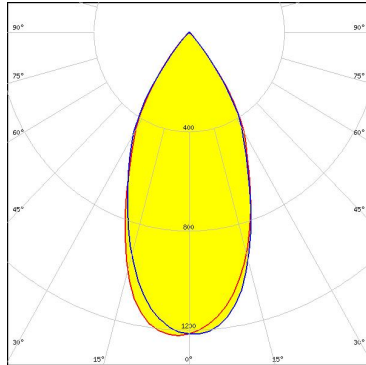
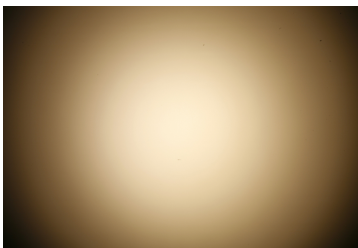
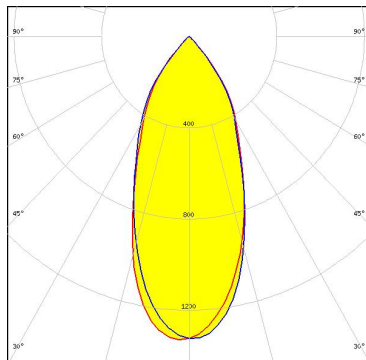

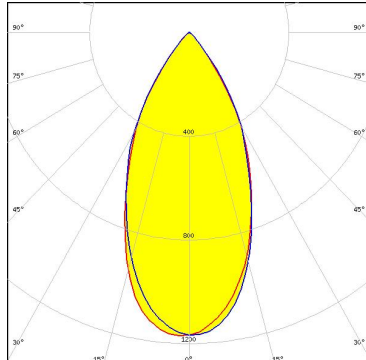

LED COB 4W  
FWHM 38.0°  
Efficiency 89 %  
Peak intensity 1.700 cd/lm  
Required components:



LED COB 4W  
FWHM 44.0°  
Efficiency 83 %  
Peak intensity 1.300 cd/lm  
Required components:  
C12479\_MIRELLA-DL



#### PHOTOMETRIC DATA (MEASURED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1202/1203</p> <p>FWHM 49.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 1.200 cd/lm</p> <p>Required components: C13333_MIRELLA-CL</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1202/1203</p> <p>FWHM 44.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 1.300 cd/lm</p> <p>Required components:</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1202/1203</p> <p>FWHM 50.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 1.200 cd/lm</p> <p>Required components: C12479_MIRELLA-DL</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON S1000</p> <p>FWHM 34.0°</p> <p>Efficiency %</p> <p>Peak intensity cd/lm</p> <p>Required components:</p>		



#### PHOTOMETRIC DATA (MEASURED):

##### LUMILEDS

LED LUXEON S1000  
FWHM 41.0°  
Efficiency %  
Peak intensity cd/lm  
Required components:  
C12479\_MIRELLA-DL



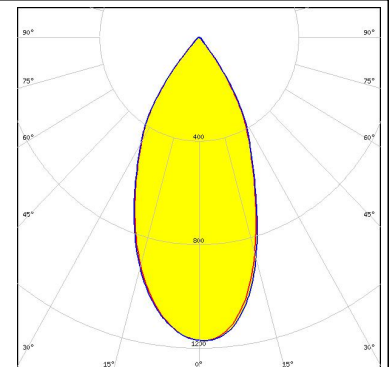
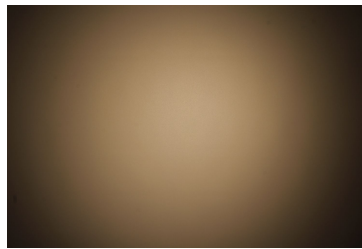
##### LUMILEDS

LED LUXEON S1000  
FWHM 34.0°  
Efficiency 84 %  
Peak intensity 1.700 cd/lm  
Required components:  
C13333\_MIRELLA-CL



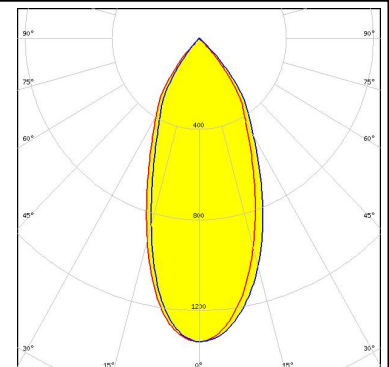
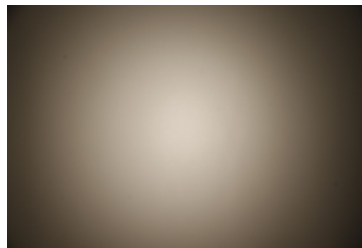
##### LUMINUS

LED CXM-9  
FWHM 48.0°  
Efficiency 83 %  
Peak intensity 1.200 cd/lm  
Required components:  
C13333\_MIRELLA-CL



##### LUMINUS

LED CXM-9  
FWHM 43.0°  
Efficiency 89 %  
Peak intensity 1.300 cd/lm  
Required components:

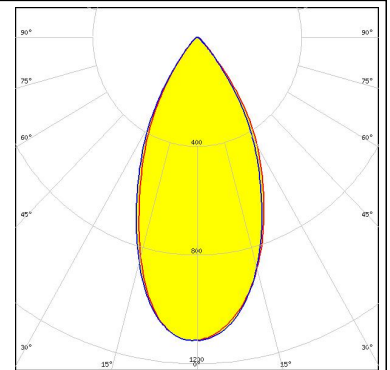
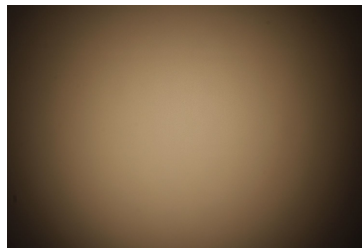




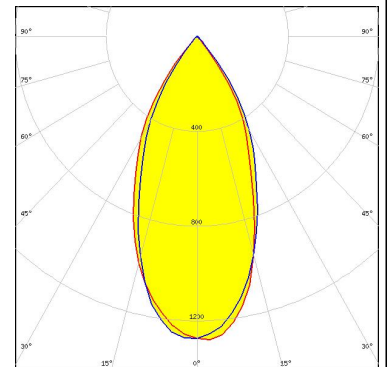
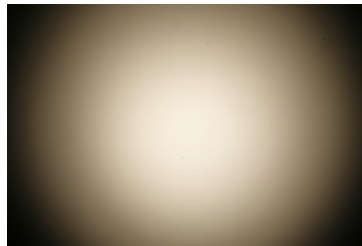
#### PHOTOMETRIC DATA (MEASURED):



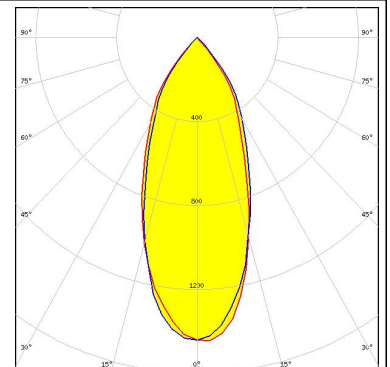
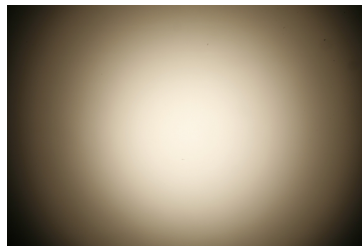
LED CXM-9  
 FWHM 49.0°  
 Efficiency 83 %  
 Peak intensity 1.100 cd/lm  
 Required components:  
 C12479\_MIRELLA-DL



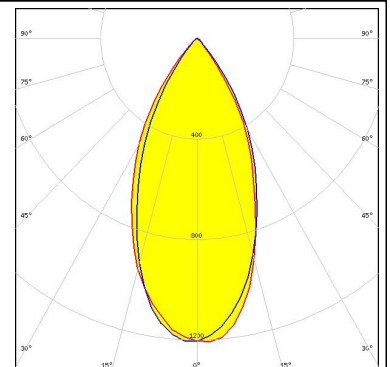
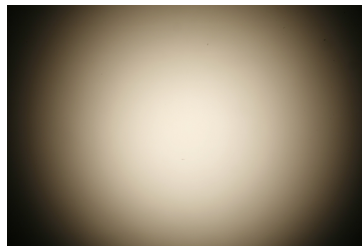
LED COB L-Type (LES 9)  
 FWHM 47.0°  
 Efficiency 85 %  
 Peak intensity 1.300 cd/lm  
 Required components:  
 C13333\_MIRELLA-CL



LED COB L-Type (LES 9)  
 FWHM 42.0°  
 Efficiency 89 %  
 Peak intensity 1.400 cd/lm  
 Required components:



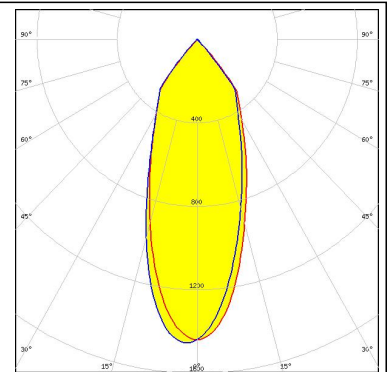
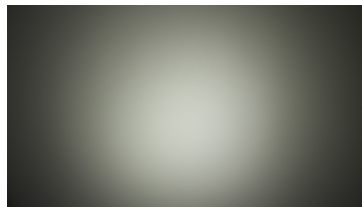
LED COB L-Type (LES 9)  
 FWHM 48.0°  
 Efficiency 83 %  
 Peak intensity 1.200 cd/lm  
 Required components:  
 C12479\_MIRELLA-DL



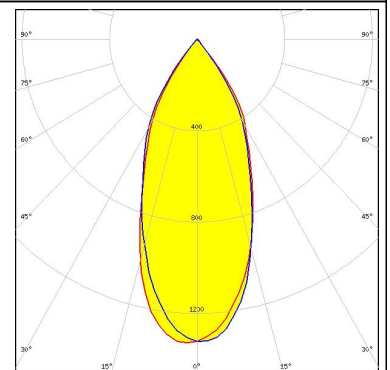
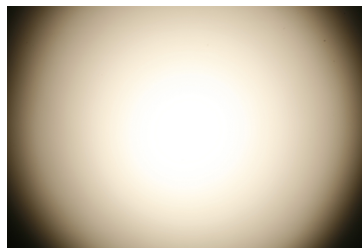
#### PHOTOMETRIC DATA (MEASURED):



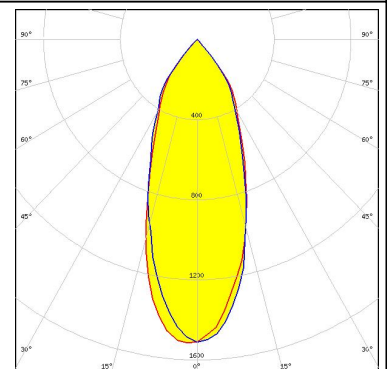
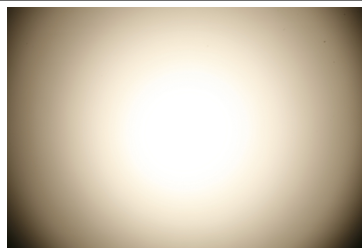
LED NFMW48xA  
 FWHM 38.0°  
 Efficiency 88 %  
 Peak intensity 1.500 cd/lm  
 Required components:



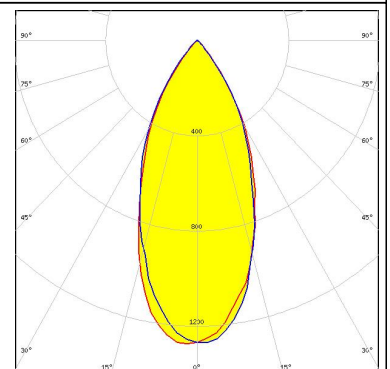
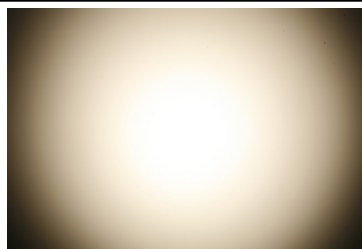
LED NSCxL036A  
 FWHM 44.0°  
 Efficiency 83 %  
 Peak intensity 1.300 cd/lm  
 Required components:  
 C13333\_MIRELLA-CL



LED NSCxL036A  
 FWHM 40.0°  
 Efficiency 87 %  
 Peak intensity 1.500 cd/lm  
 Required components:



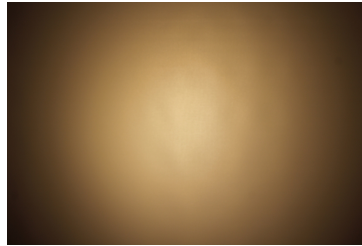
LED NSCxL036A  
 FWHM 46.0°  
 Efficiency 83 %  
 Peak intensity 1.300 cd/lm  
 Required components:  
 C12479\_MIRELLA-DL



### PHOTOMETRIC DATA (MEASURED):

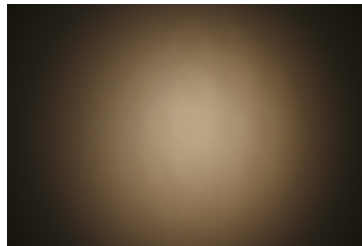
**OSRAM**  
Opto Semiconductors

LED Duris S10  
FWHM 45.0°  
Efficiency 82 %  
Peak intensity 1.300 cd/lm  
Required components:  
C13333\_MIRELLA-CL



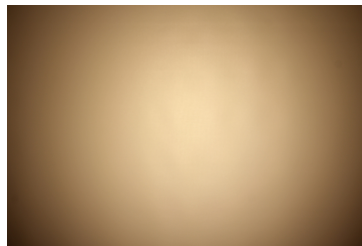
**OSRAM**  
Opto Semiconductors

LED Duris S10  
FWHM 40.0°  
Efficiency 87 %  
Peak intensity 1.500 cd/lm  
Required components:



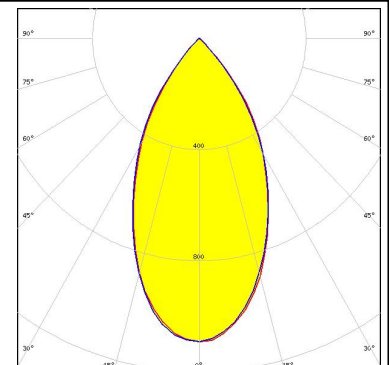
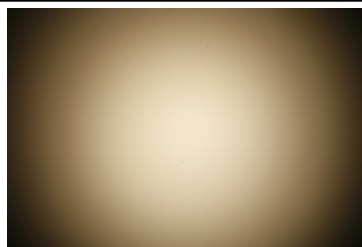
**OSRAM**  
Opto Semiconductors

LED Duris S10  
FWHM 49.0°  
Efficiency 79 %  
Peak intensity 1.100 cd/lm  
Required components:  
C12479\_MIRELLA-DL


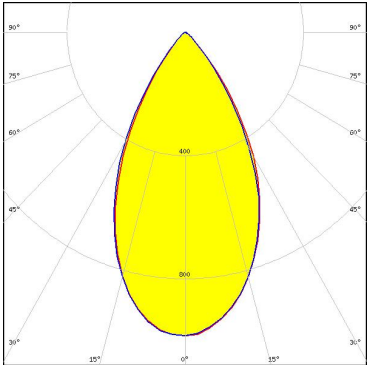
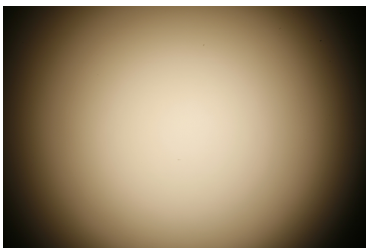
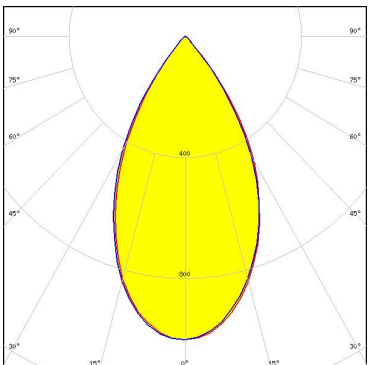

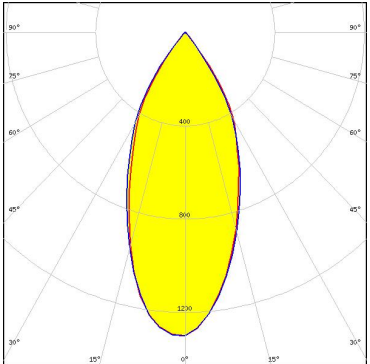
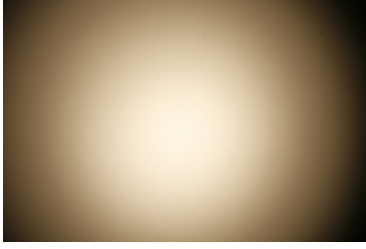
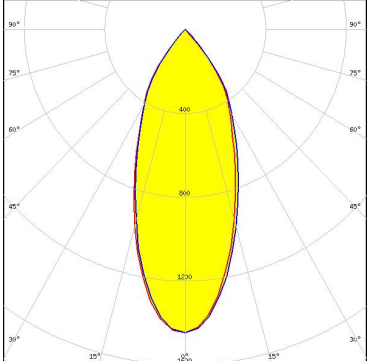


**OSRAM**  
Opto Semiconductors



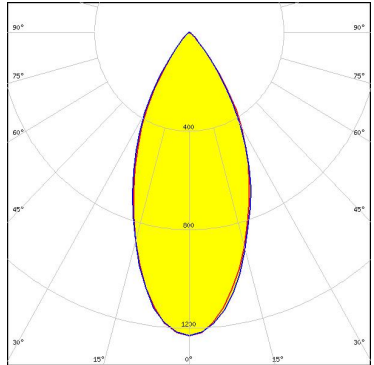
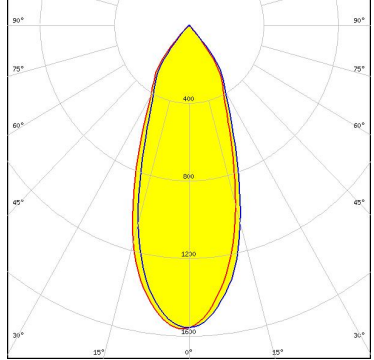
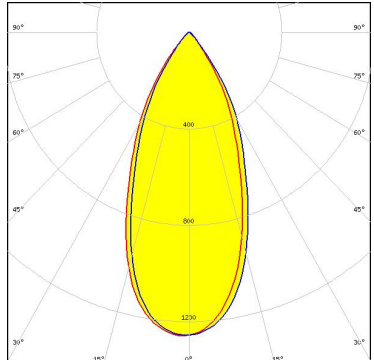
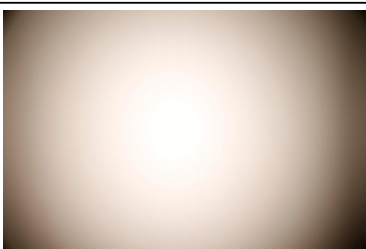
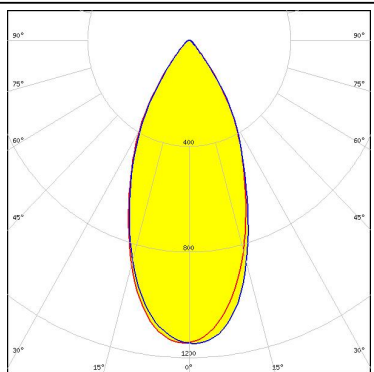
LED Soleriq S13  
FWHM 55.0°  
Efficiency 85 %  
Peak intensity cd/lm  
Required components:



#### PHOTOMETRIC DATA (MEASURED):

<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED Soleriq S13            FWHM 57.0°            Efficiency 81 %            Peak intensity 1.000 cd/lm            Required components:            C12479_MIRELLA-DL</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED Soleriq S13            FWHM 57.0°            Efficiency 80 %            Peak intensity 1.000 cd/lm            Required components:            C13333_MIRELLA-CL</p>		
<p><b>SEOL</b> SEOUL SEMICONDUCTOR</p> <p>LED ZC4/6            FWHM 46.0°            Efficiency 80 %            Peak intensity 1.300 cd/lm            Required components:            C13333_MIRELLA-CL</p>		
<p><b>SEOL</b> SEOUL SEMICONDUCTOR</p> <p>LED ZC4/6            FWHM 42.0°            Efficiency 86 %            Peak intensity 1.400 cd/lm            Required components:</p>		

**PHOTOMETRIC DATA (MEASURED):**

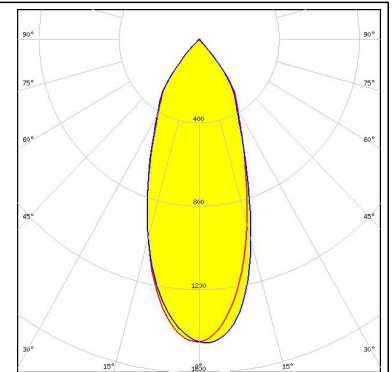
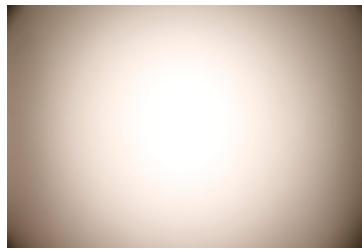
<p> SEOUL SEMICONDUCTOR</p> <p>LED            ZC4/6 FWHM         48.0° Efficiency     81 % Peak intensity 1.200 cd/lm Required components: C12479_MIRELLA-DL</p>		
<p><b>SHARP</b></p> <p>LED            Mini Zenigata (GW5BM) FWHM         39.0° Efficiency     89 % Peak intensity 1.500 cd/lm Required components:</p>		
<p><b>SHARP</b></p> <p>LED            Mini Zenigata (GW5BM) FWHM         45.0° Efficiency     84 % Peak intensity 1.260 cd/lm Required components: C12479_MIRELLA-DL</p>		
<p><b>SHARP</b></p> <p>LED            Mini Zenigata (GW6BM) FWHM         45.0° Efficiency     81 % Peak intensity 1.100 cd/lm Required components: C12479_MIRELLA-DL</p>		



#### PHOTOMETRIC DATA (MEASURED):

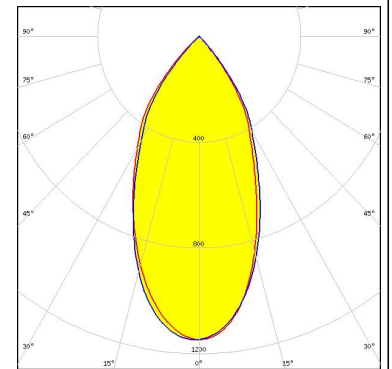
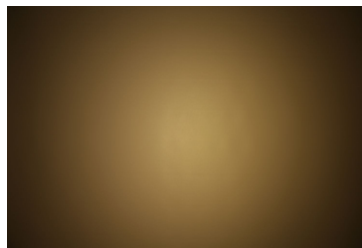
### SHARP

LED Mini Zenigata (GW6BM)  
FWHM 38.0°  
Efficiency 88 %  
Peak intensity 1.500 cd/lm  
Required components:



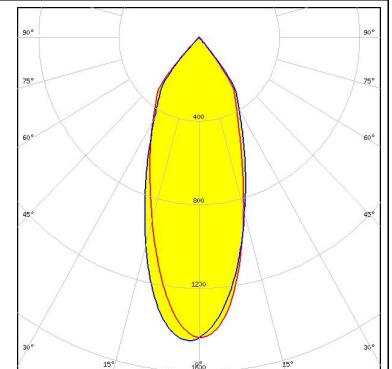
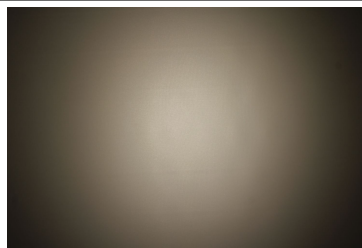
### TRIDONIC

LED SLE G5 LES11  
FWHM 49.0°  
Efficiency 86 %  
Peak intensity 1.150 cd/lm  
Required components:



### TRIDONIC

LED SLE G5 LES6  
FWHM 39.0°  
Efficiency 88 %  
Peak intensity 1.450 cd/lm  
Required components:

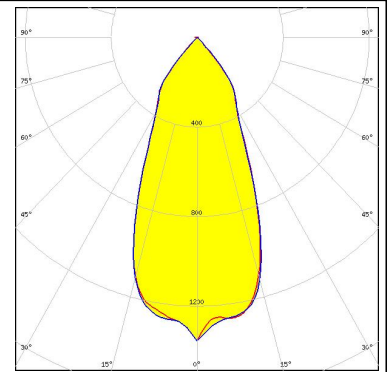




#### PHOTOMETRIC DATA (SIMULATED):

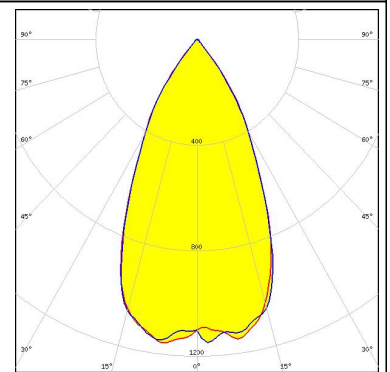
**OSRAM**  
Opto Semiconductors

LED                    OSCONIQ P 7070  
FWHM                45.0°  
Efficiency            91 %  
Peak intensity      1.400 cd/lm  
Required components:



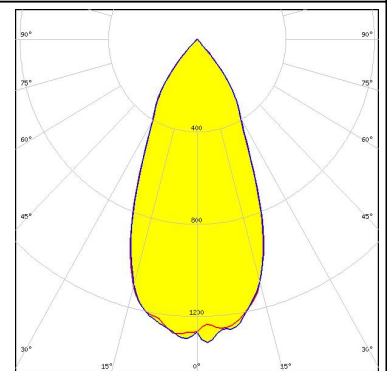
**OSRAM**  
Opto Semiconductors

LED                    Soleriq S9  
FWHM                50.0°  
Efficiency            87 %  
Peak intensity      1.200 cd/lm  
Required components:  
C13333\_MIRELLA-CL



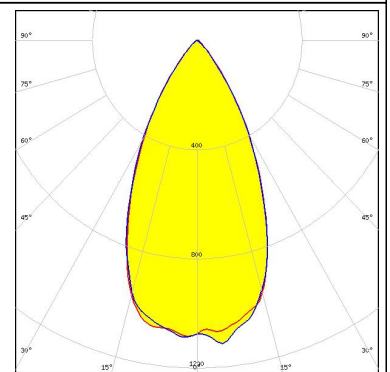
**OSRAM**  
Opto Semiconductors

LED                    Soleriq S9  
FWHM                47.0°  
Efficiency            91 %  
Peak intensity      1.300 cd/lm  
Required components:



**OSRAM**  
Opto Semiconductors

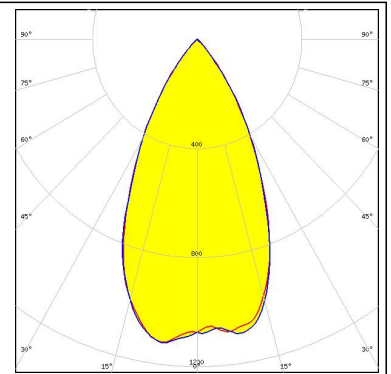
LED                    Soleriq S9  
FWHM                51.0°  
Efficiency            85 %  
Peak intensity      1.100 cd/lm  
Required components:  
C13723\_MIRELLA-RZL



## PHOTOMETRIC DATA (SIMULATED):

**OSRAM**  
Opto Semiconductors

LED Soleriq S9  
FWHM 51.0°  
Efficiency 85 %  
Peak intensity 1.100 cd/lm  
Required components:  
C12479\_MIRELLA-DL



#### 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:

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