


## LENINA-XW

White version with ~75° wide beam

### TECHNICAL SPECIFICATIONS:

Dimensions	Ø 74.0 mm
Height	40 mm
Fastening	socket
ROHS compliant	yes 

### MATERIAL SPECIFICATIONS:

Component	Type	Material
LENINA-XW	Reflector	HRPC



Colour	Finish	Coating
white		

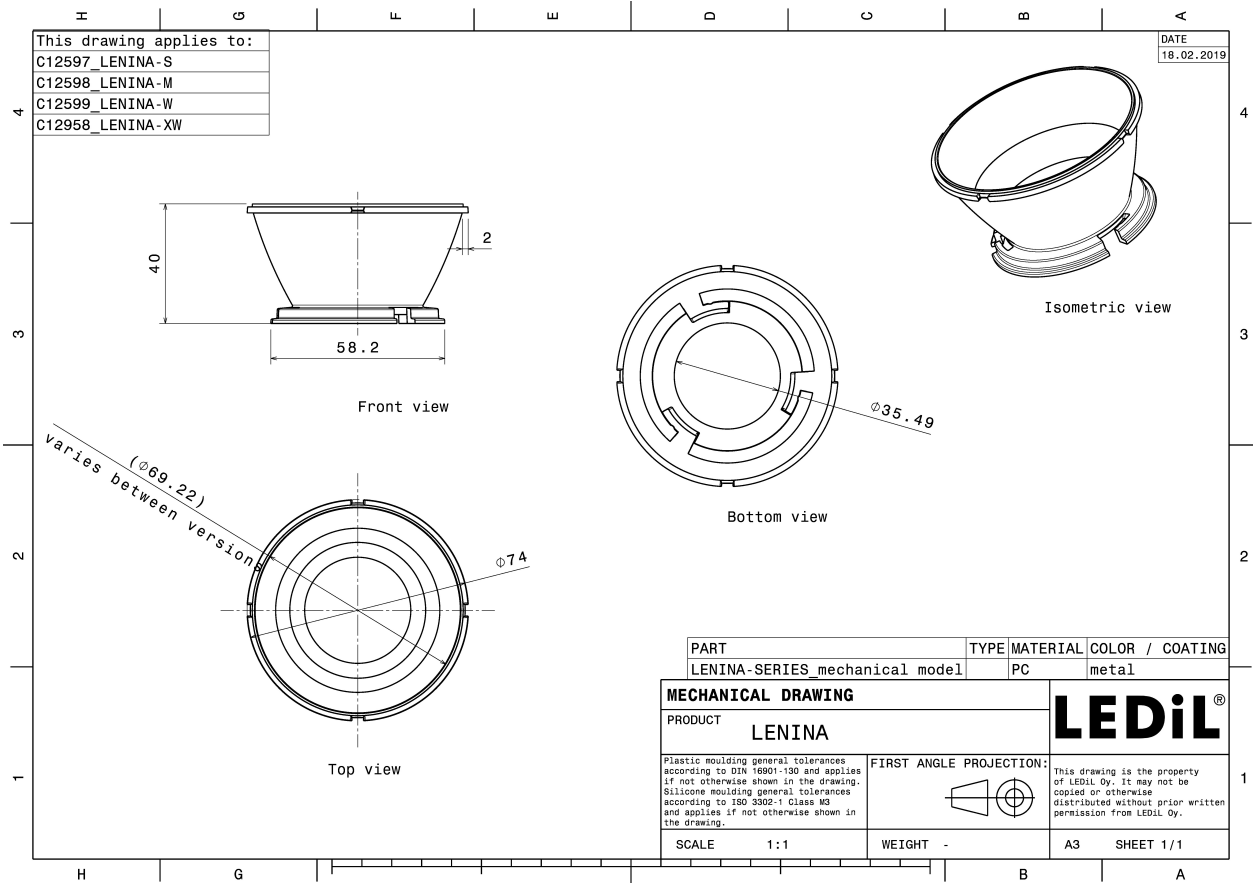
### ORDERING INFORMATION:

#### Component

C12958\_LENINA-XW

» Box size: 476 x 273 x 197 mm


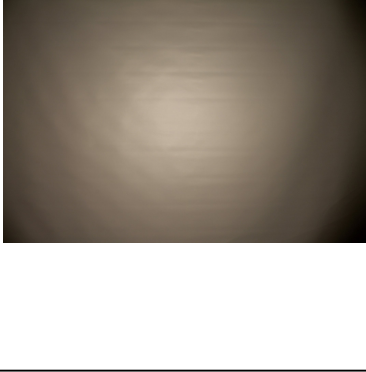
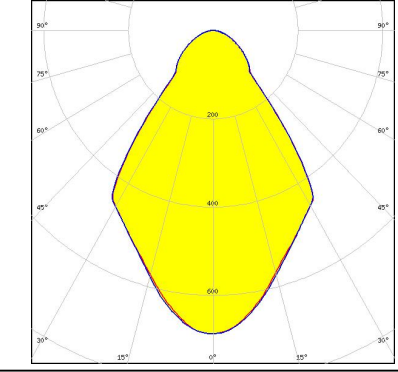
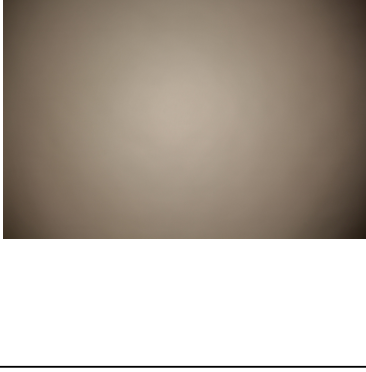
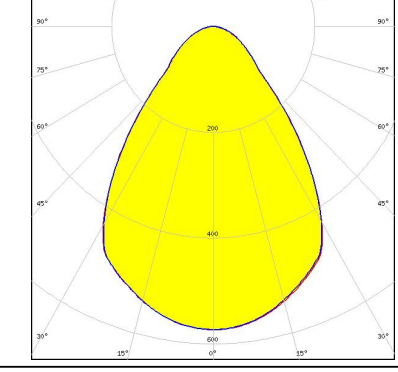
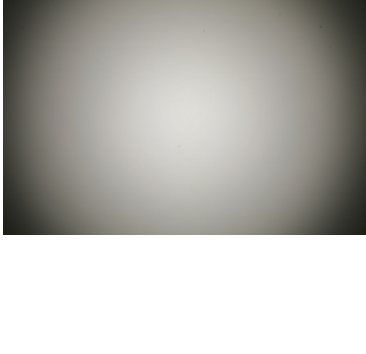
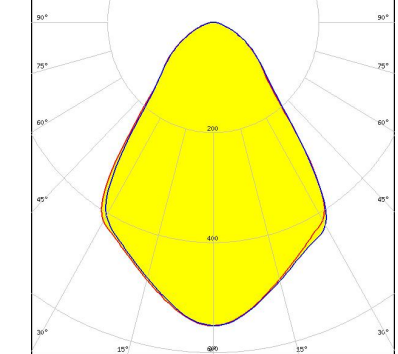
Qty in box	MOQ	MPQ	Box weight (kg)
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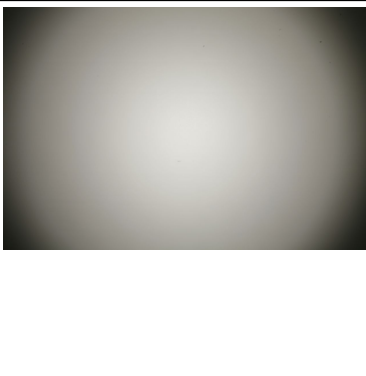
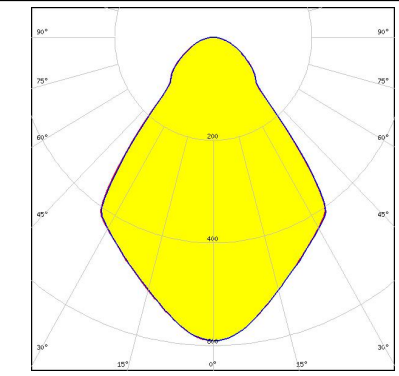
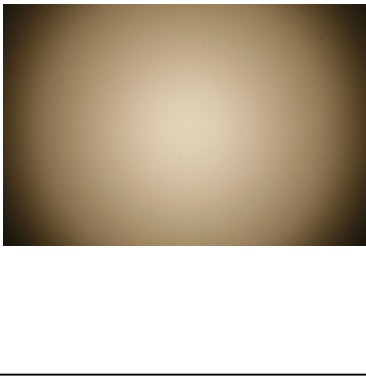
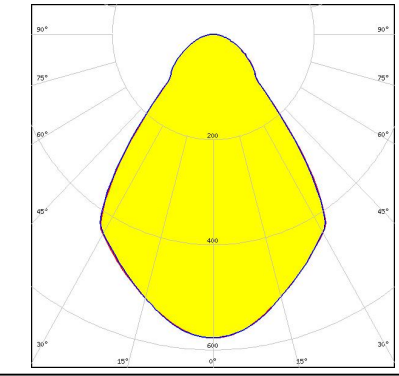
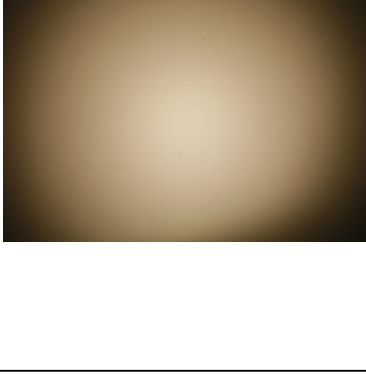
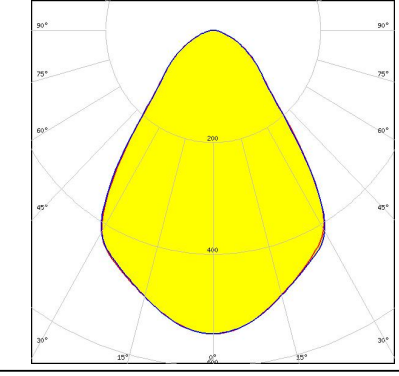
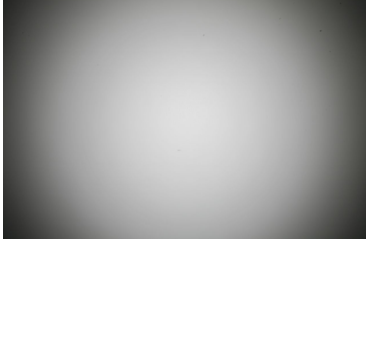
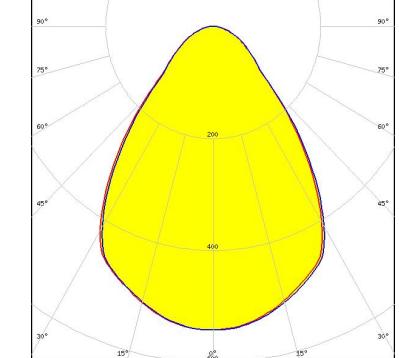
#### PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED BXRA ES Rectangle</p> <p>FWHM 73.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 0.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>C12153_LENINA-STD-BASE-BXRA</p> <p>C12606_LENINA-DL</p>	
<p>bridgelux.</p> <p>LED BXRA ES Rectangle</p> <p>FWHM 74.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 0.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>C12153_LENINA-STD-BASE-BXRA</p>	
<p>bridgelux.</p> <p>LED BXRA RS</p> <p>FWHM 76.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 0.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>C12229_LENINA-STD-BASE-RS</p>	
<p>bridgelux.</p> <p>LED BXRA RS</p> <p>FWHM 87.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 0.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>C12229_LENINA-STD-BASE-RS</p> <p>C12606_LENINA-DL</p>	

## PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED V10 Gen6 FWHM 69.0° Efficiency 86 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White</p> <p>Required components: C13186_LENINA-STD-BASE-CXA15 C12606_LENINA-DL</p>		
<p>bridgelux.</p> <p>LED V4 HD FWHM 71.0° Efficiency 93 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White</p> <p>Required components: C14146_LENINA-STD-BASE-CXA18</p>		
<p>bridgelux.</p> <p>LED Vero SE 29 FWHM 76.0° Efficiency 93 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White</p> <p>Required components: C15083_LENINA-STD-BASE-VERO29</p>		
<p>bridgelux.</p> <p>LED VERO13 FWHM 75.0° Efficiency 87 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White</p> <p>Required components: C13868_LENINA-STD-BASE-VERO13-18 C12606_LENINA-DL</p>		

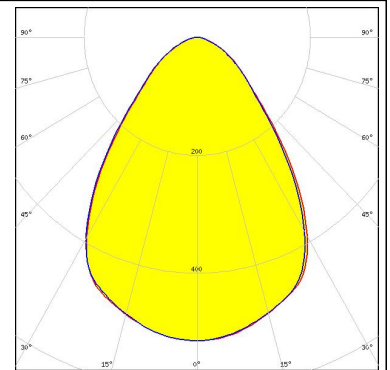
#### PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED VERO13 FWHM 76.0° Efficiency 91 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White Required components: C13868_LENINA-STD-BASE-VERO13-18</p>		
<p>bridgelux.</p> <p>LED VERO18 FWHM 76.0° Efficiency 91 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White Required components: C13868_LENINA-STD-BASE-VERO13-18</p>		
<p>bridgelux.</p> <p>LED VERO18 FWHM 75.0° Efficiency 87 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White Required components: C13868_LENINA-STD-BASE-VERO13-18 C12606_LENINA-DL</p>		
<p>bridgelux.</p> <p>LED VERO29 FWHM 77.0° Efficiency 91 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White Required components: C13867_LENINA-STD-BASE-VERO29</p>		

#### PHOTOMETRIC DATA (MEASURED):

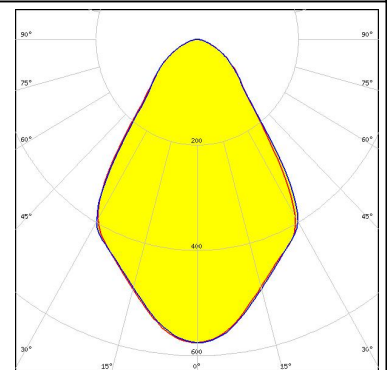
bridgelux

LED VERO29  
 FWHM 77.0°  
 Efficiency 87 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13867\_LENINA-STD-BASE-VERO29  
 C12606\_LENINA-DL



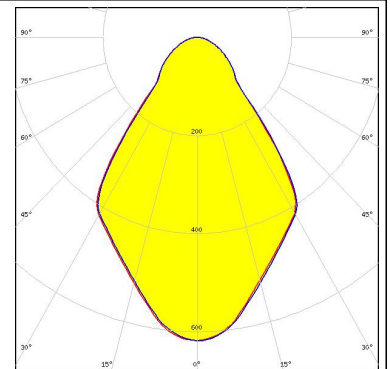
#### CITIZEN

LED CL-L340  
 FWHM 71.0°  
 Efficiency 82 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C11995\_LENINA-STD-BASE-CL340  
 C12606\_LENINA-DL



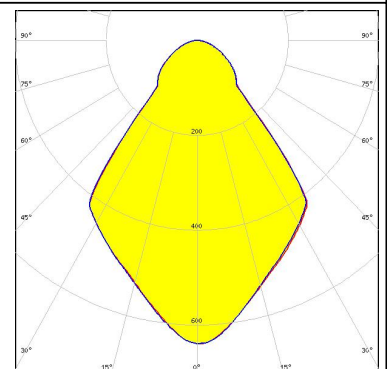
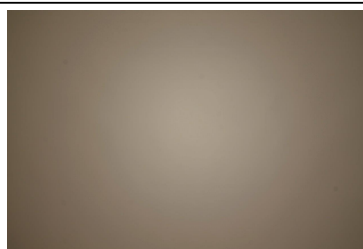
#### CITIZEN

LED CL-L340  
 FWHM 72.0°  
 Efficiency 86 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C11995\_LENINA-STD-BASE-CL340



#### CITIZEN

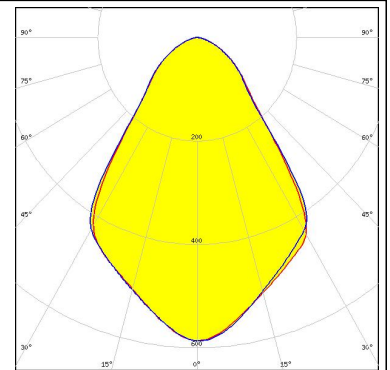
LED CLL02x/CLU02x (LES10)  
 FWHM 75.0°  
 Efficiency 93 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13868\_LENINA-STD-BASE-VERO13-18  
 Bender Wirth: 434 Typ L1



#### PHOTOMETRIC DATA (MEASURED):

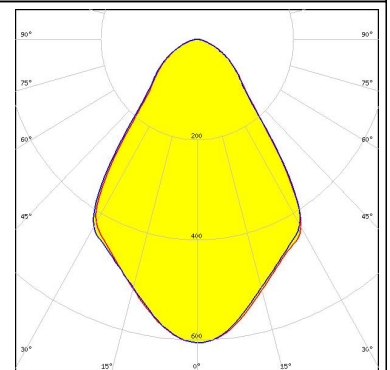
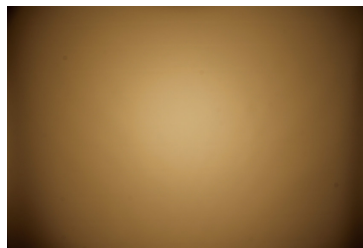
#### CITIZEN

LED CLL02x/CLU02x (LES10)  
 FWHM 73.0°  
 Efficiency 89 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13868\_LENINA-STD-BASE-VERO13-18  
 C12606\_LENINA-DL  
 Bender Wirth: 434 Typ L1



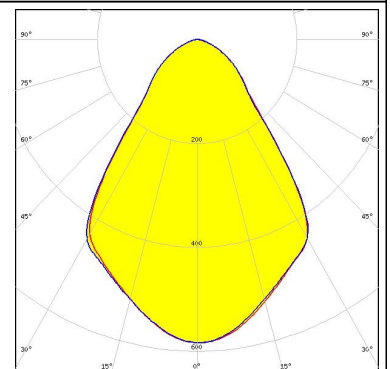
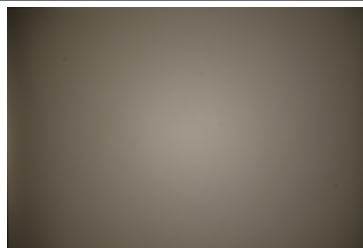
#### CITIZEN

LED CLL03x/CLU03x  
 FWHM 72.0°  
 Efficiency 88 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12691\_LENINA-STD-BASE-CLL030  
 C12606\_LENINA-DL



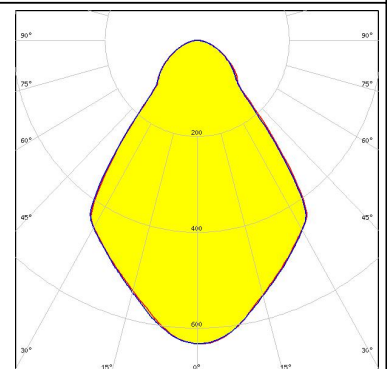
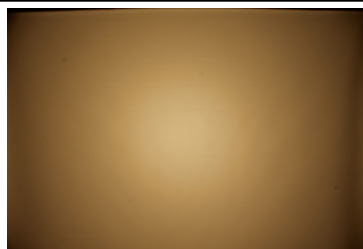
#### CITIZEN

LED CLL03x/CLU03x  
 FWHM 74.0°  
 Efficiency 89 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13868\_LENINA-STD-BASE-VERO13-18  
 C12606\_LENINA-DL  
 Bender Wirth: 433 Typ L1



#### CITIZEN

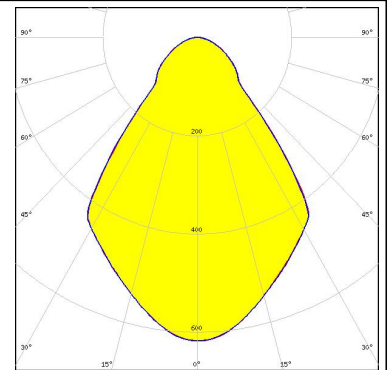
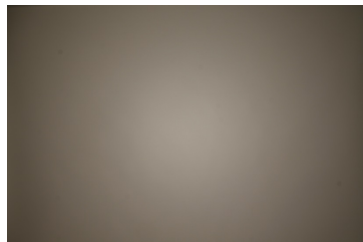
LED CLL03x/CLU03x  
 FWHM 74.0°  
 Efficiency 93 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12691\_LENINA-STD-BASE-CLL030



#### PHOTOMETRIC DATA (MEASURED):

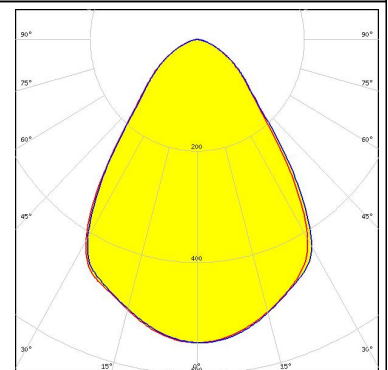
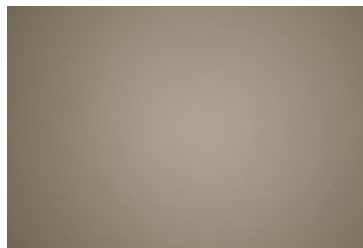
#### CITIZEN

LED CLL03x/CLU03x  
FWHM 75.0°  
Efficiency 94 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13868\_LENASTD-BASE-VERO13-18  
Bender Wirth: 433 Typ L1



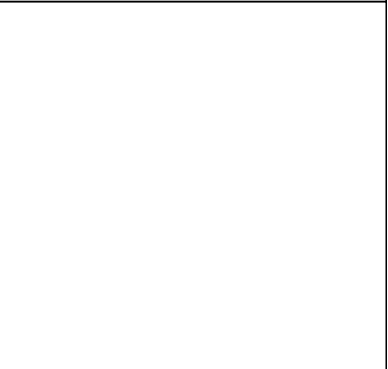
#### CITIZEN

LED CLL04x/CLU04x  
FWHM 75.0°  
Efficiency 89 %  
Peak intensity 0.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13867\_LENASTD-BASE-VERO29  
C12606\_LENINA-DL  
Bender Wirth: 431 Typ L3



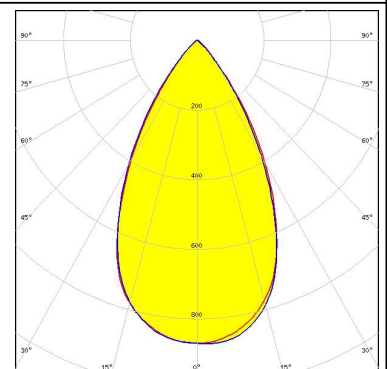
#### CITIZEN

LED CLL04x/CLU04x  
FWHM 71.0°  
Efficiency 84 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C12692\_LENASTD-BASE-CLL040  
C12606\_LENINA-DL



#### CITIZEN

LED CLL04x/CLU04x  
FWHM 73.0°  
Efficiency 81 %  
Peak intensity 0.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C12606\_LENINA-DL  
A.A.G. STUCCHI: 8102/G2 + S-8000/12

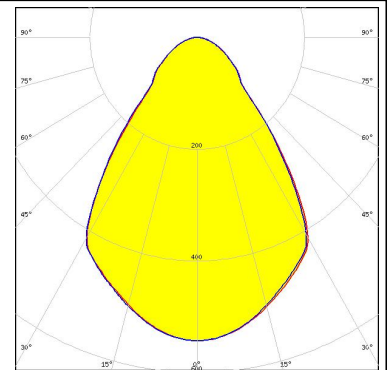
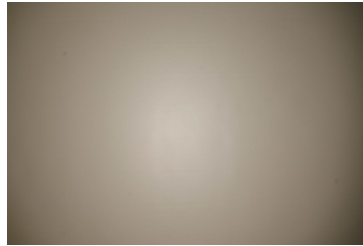




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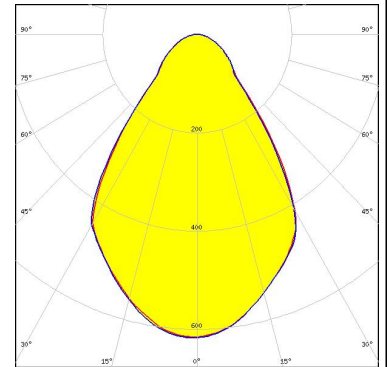
#### CITIZEN

LED CLL04x/CLU04x  
FWHM 74.0°  
Efficiency 84 %  
Peak intensity 0.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
A.A.G. STUCCHI: 8102/G2 + S-8000/12



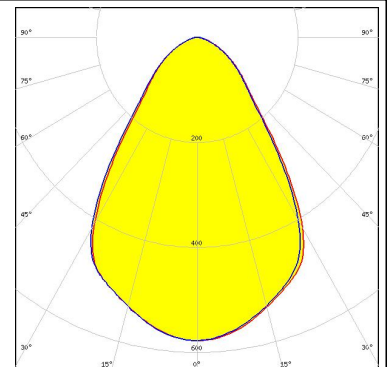
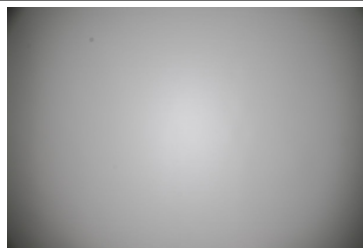
#### CITIZEN

LED CLL04x/CLU04x  
FWHM 71.0°  
Efficiency 89 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C12692\_LENINA-STD-BASE-CLL040



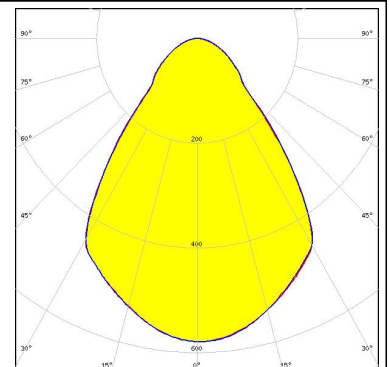
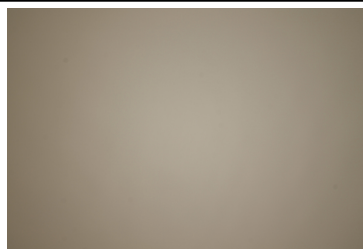
#### CITIZEN

LED CLL04x/CLU04x  
FWHM 71.0°  
Efficiency 88 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C12606\_LENINA-DL  
IDEAL: 50-2204CT + 50-2100LN



#### CITIZEN

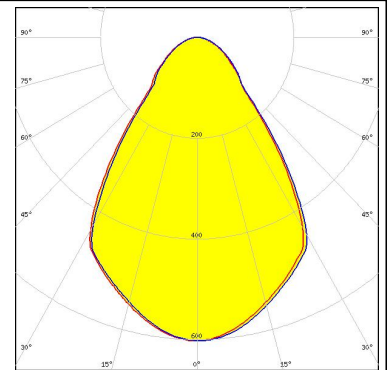
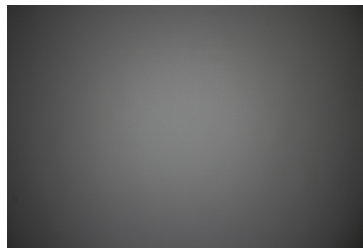
LED CLL04x/CLU04x  
FWHM 75.0°  
Efficiency 93 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13867\_LENINA-STD-BASE-VERO29  
Bender Wirth: 431 Typ L3



#### PHOTOMETRIC DATA (MEASURED):

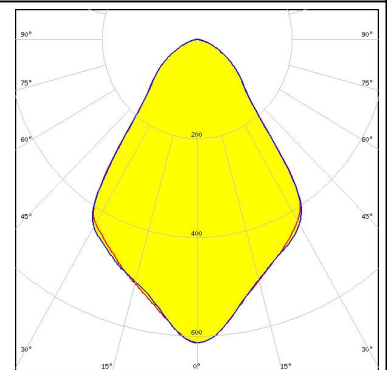
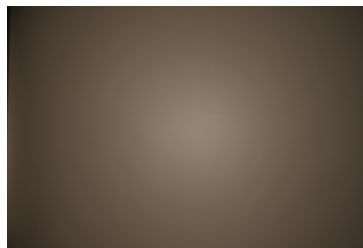
#### CITIZEN

LED CLL04x/CLU04x  
 FWHM 72.0°  
 Efficiency 91 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 IDEAL: 50-2204CT + 50-2100LN



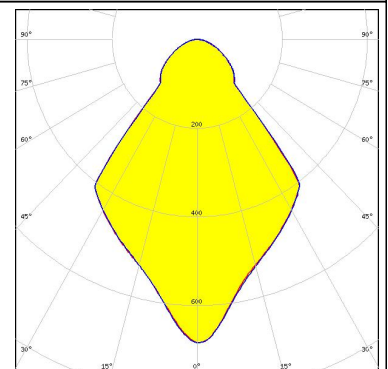
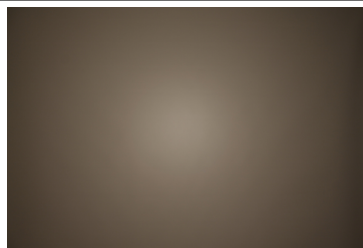
#### CITIZEN

LED CLU700/701/702  
 FWHM 73.0°  
 Efficiency 89 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13868\_LENINA-STD-BASE-VERO13-18  
 C12606\_LENINA-DL  
 Bender Wirth: 434 Typ L1



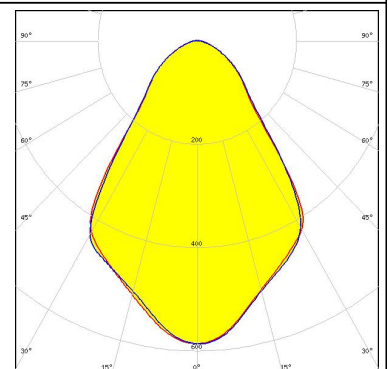
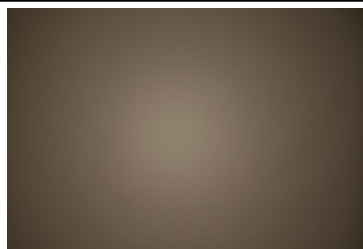
#### CITIZEN

LED CLU700/701/702  
 FWHM 75.0°  
 Efficiency 93 %  
 Peak intensity 0.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13868\_LENINA-STD-BASE-VERO13-18  
 Bender Wirth: 434 Typ L1



#### CITIZEN

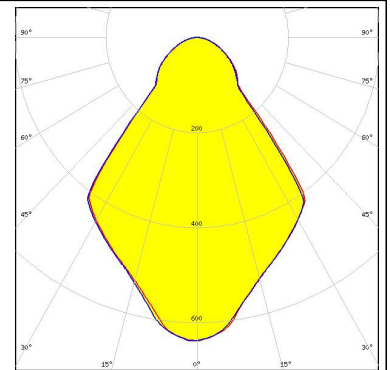
LED CLU710/711  
 FWHM 73.0°  
 Efficiency 90 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12691\_LENINA-STD-BASE-CLL030  
 C12606\_LENINA-DL



#### PHOTOMETRIC DATA (MEASURED):

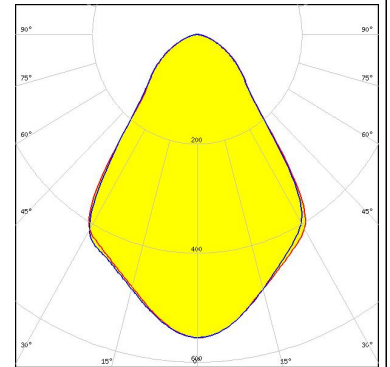
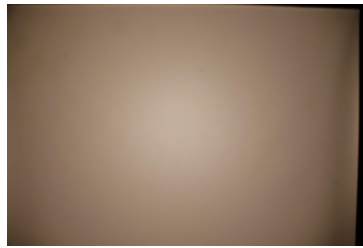
#### CITIZEN

LED CLU710/711  
FWHM 75.0°  
Efficiency 94 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C12691\_LENINA-STD-BASE-CLL030



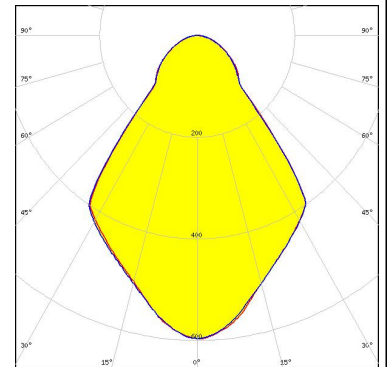
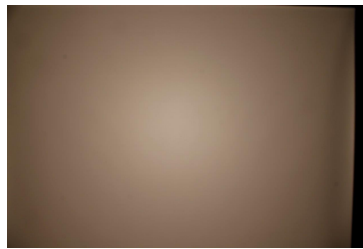
#### CITIZEN

LED CLU720/721  
FWHM 73.0°  
Efficiency 85 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C12691\_LENINA-STD-BASE-CLL030  
C12606\_LENINA-DL



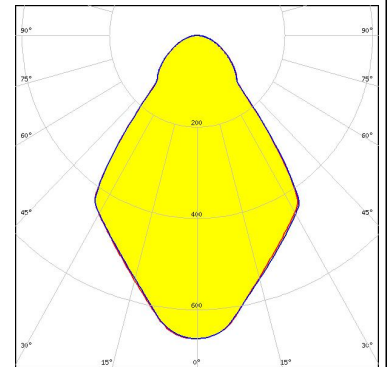
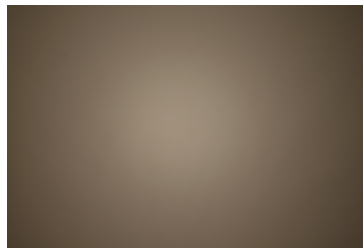
#### CITIZEN

LED CLU720/721  
FWHM 74.0°  
Efficiency 89 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C12691\_LENINA-STD-BASE-CLL030



#### CITIZEN

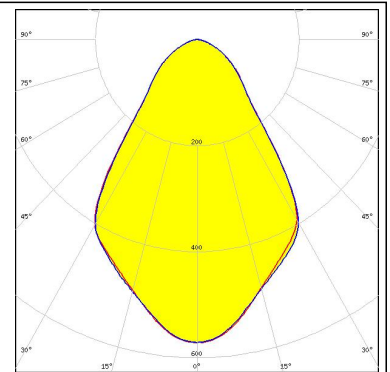
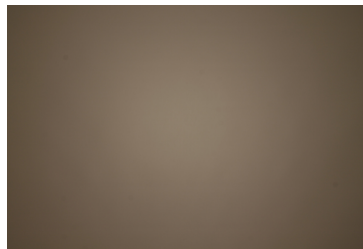
LED CLU730/731  
FWHM 72.0°  
Efficiency 94 %  
Peak intensity 0.7 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C12692\_LENINA-STD-BASE-CLL040



#### PHOTOMETRIC DATA (MEASURED):

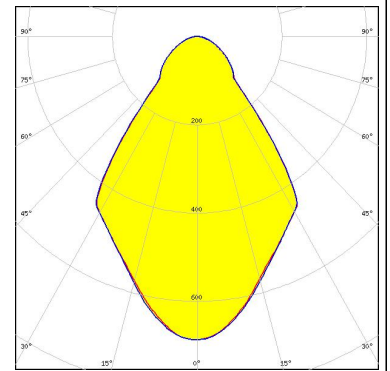
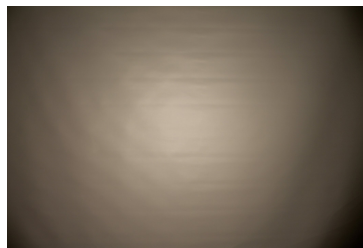
#### CITIZEN

LED CLU730/731  
 FWHM 71.0°  
 Efficiency 84 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12692\_LENINA-STD-BASE-CLL040  
 C12606\_LENINA-DL



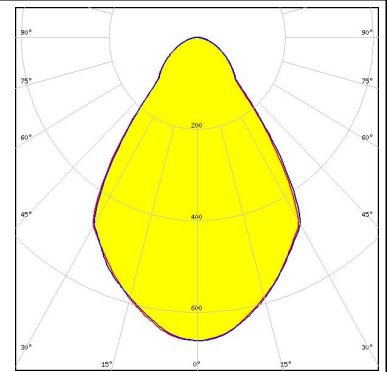
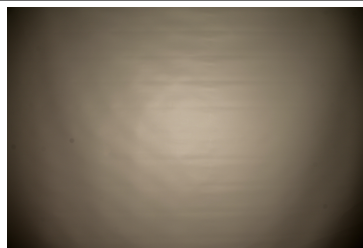
#### CREE

LED CMA1840  
 FWHM 71.0°  
 Efficiency 93 %  
 Peak intensity 0.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14146\_LENINA-STD-BASE-CXA18



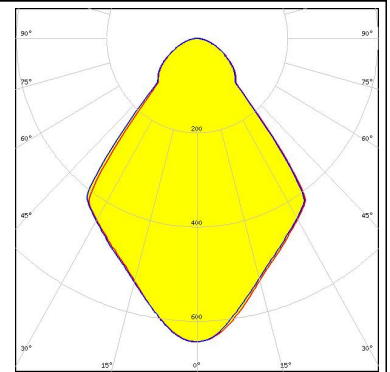
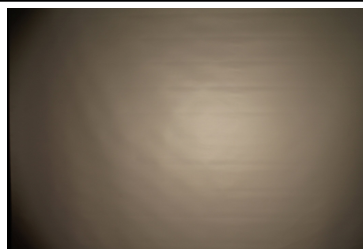
#### CREE

LED CMA2550  
 FWHM 71.0°  
 Efficiency 94 %  
 Peak intensity 0.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13324\_LENINA-STD-BASE-CXA25



#### CREE

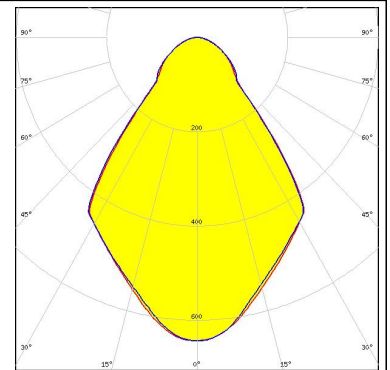
LED CMT14xx  
 FWHM 75.0°  
 Efficiency 94 %  
 Peak intensity 0.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13868\_LENINA-STD-BASE-VERO13-18  
 Bender Wirth: 434 Typ L1



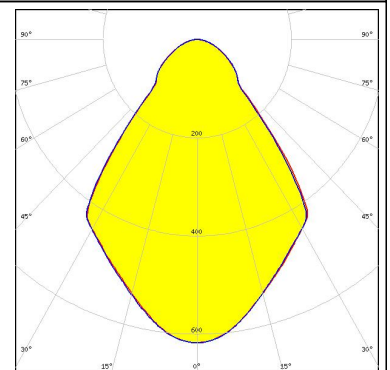
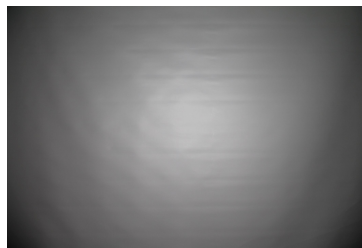
#### PHOTOMETRIC DATA (MEASURED):



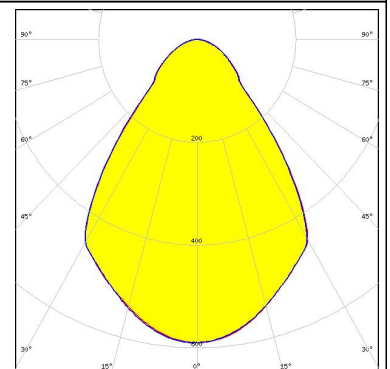
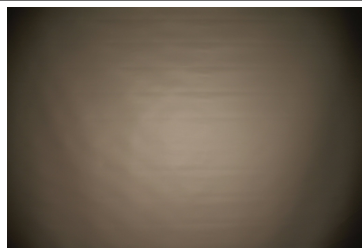
LED CMT19xx  
 FWHM 74.0°  
 Efficiency 94 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12691\_LENINA-STD-BASE-CLL030



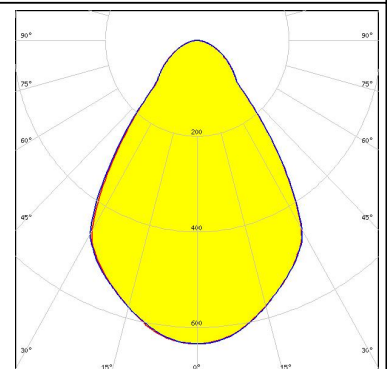
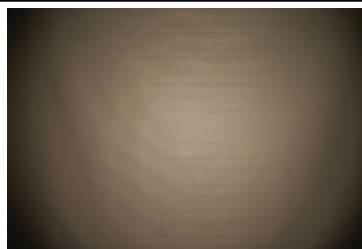
LED CMT19xx  
 FWHM 75.0°  
 Efficiency 94 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13868\_LENINA-STD-BASE-VERO13-18  
 Bender Wirth: 477 Typ L1



LED CMT28xx  
 FWHM 75.0°  
 Efficiency 93 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13867\_LENINA-STD-BASE-VERO29  
 Bender Wirth: 471 Typ L3



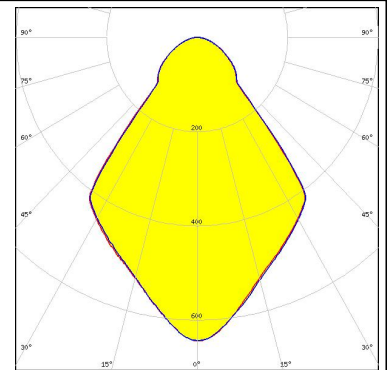
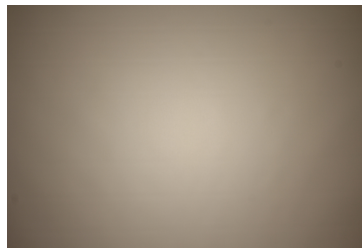
LED CMT28xx  
 FWHM 72.0°  
 Efficiency 94 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12692\_LENINA-STD-BASE-CLL040



#### PHOTOMETRIC DATA (MEASURED):

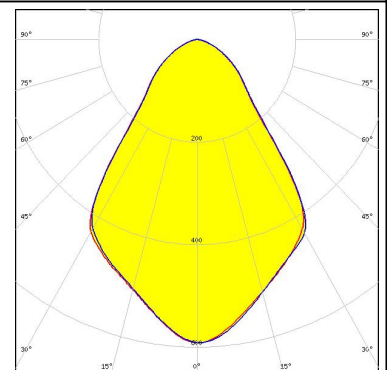
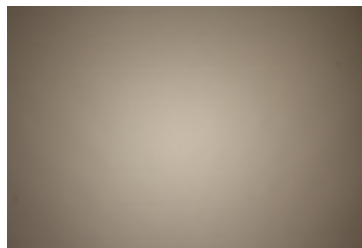
**CREE** 

LED CXA/B 15xx  
 FWHM 75.0°  
 Efficiency 93 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13868\_LENASTD-BASE-VERO13-18  
 Bender Wirth: 441 Typ L1



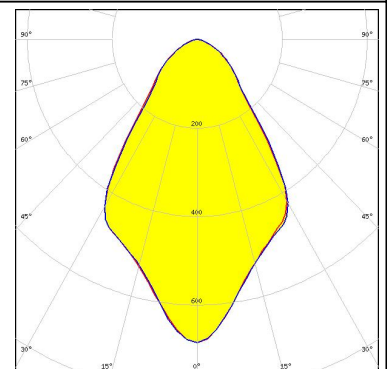
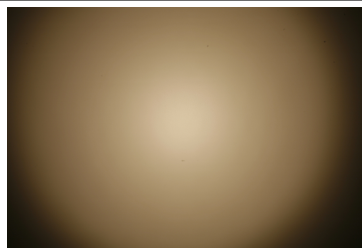
**CREE** 

LED CXA/B 15xx  
 FWHM 73.0°  
 Efficiency 89 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13868\_LENASTD-BASE-VERO13-18  
 C12606\_LENINA-DL  
 Bender Wirth: 441 Typ L1



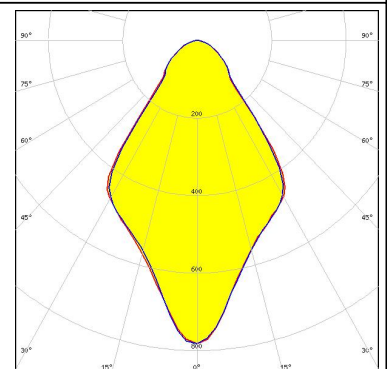
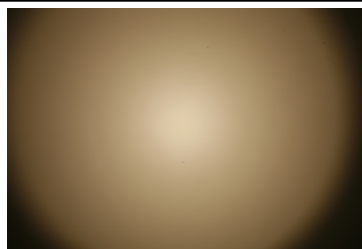
**CREE** 

LED CXA/B 15xx  
 FWHM 69.0°  
 Efficiency 86 %  
 Peak intensity 0.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13186\_LENASTD-BASE-CXA15  
 C12606\_LENINA-DL



**CREE** 

LED CXA/B 15xx  
 FWHM 70.0°  
 Efficiency 91 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13186\_LENASTD-BASE-CXA15



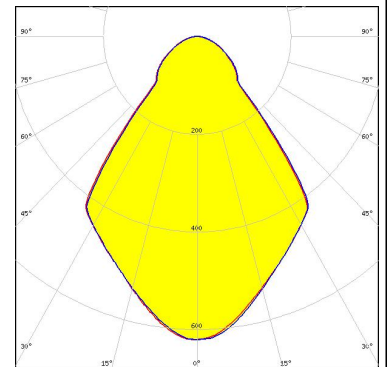
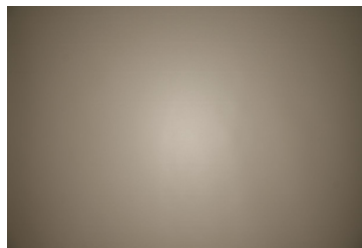
#### PHOTOMETRIC DATA (MEASURED):

#### CREE

LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
 FWHM 73.0°  
 Efficiency 94 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14146\_LENINA-STD-BASE-CXA18  
 C12606\_LENINA-DL

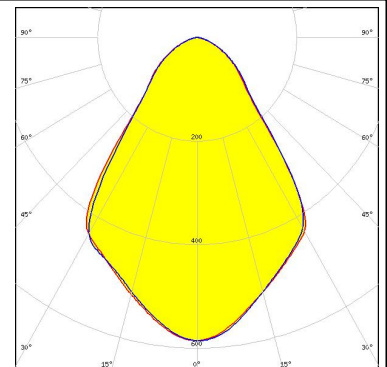
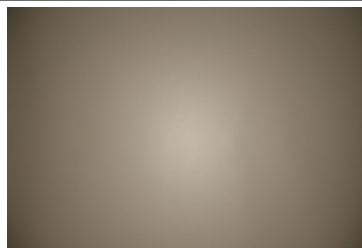
#### CREE

LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
 FWHM 75.0°  
 Efficiency 93 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13868\_LENINA-STD-BASE-VERO13-18  
 Bender Wirth: 437 Typ L1



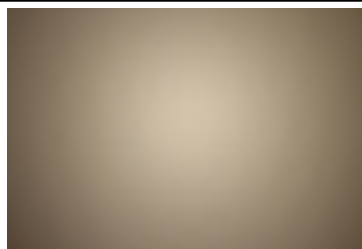
#### CREE

LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
 FWHM 74.0°  
 Efficiency 89 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13868\_LENINA-STD-BASE-VERO13-18  
 C12606\_LENINA-DL  
 Bender Wirth: 437 Typ L1



#### CREE

LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
 FWHM 73.0°  
 Efficiency 94 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14146\_LENINA-STD-BASE-CXA18

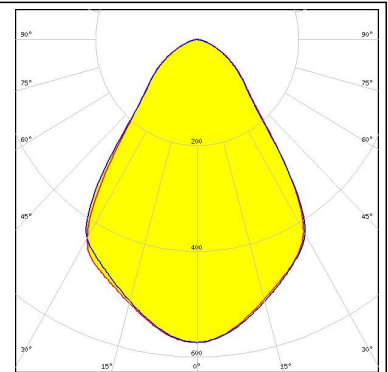


#### PHOTOMETRIC DATA (MEASURED):

**CREE** 

LED CXA/B 1830  
 FWHM 74.0°  
 Efficiency 89 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White

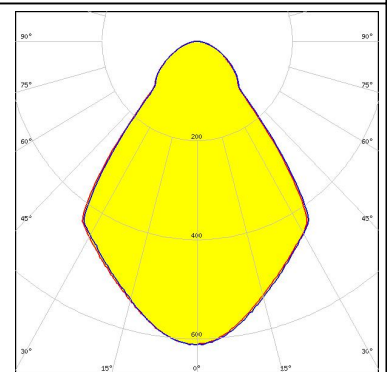
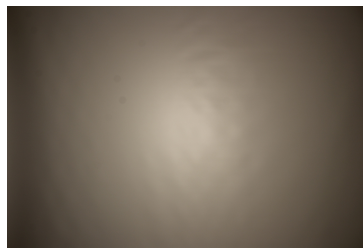
Required components:  
 C13868\_LENINA-STD-BASE-VERO13-18  
 C12606\_LENINA-DL  
 Bender Wirth: 437 Typ L1



**CREE** 

LED CXA/B 1830  
 FWHM 75.0°  
 Efficiency 94 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White

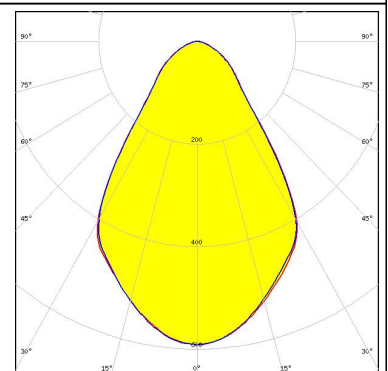
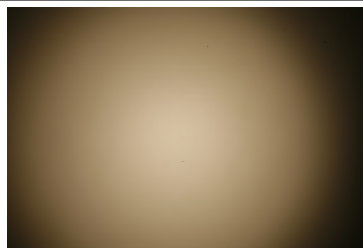
Required components:  
 C13868\_LENINA-STD-BASE-VERO13-18  
 Bender Wirth: 437 Typ L1



**CREE** 

LED CXA/B 25xx  
 FWHM 70.0°  
 Efficiency 84 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White

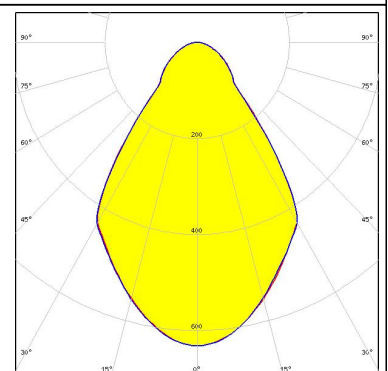
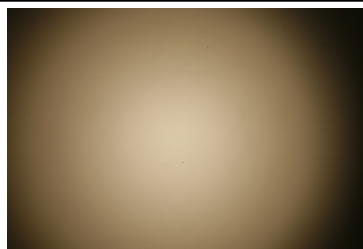
Required components:  
 C13324\_LENINA-STD-BASE-CXA25  
 C12606\_LENINA-DL



**CREE** 

LED CXA/B 25xx  
 FWHM 70.0°  
 Efficiency 89 %  
 Peak intensity 0.7 cd/lm  
 LEDs/each optic 1  
 Light colour White

Required components:  
 C13324\_LENINA-STD-BASE-CXA25

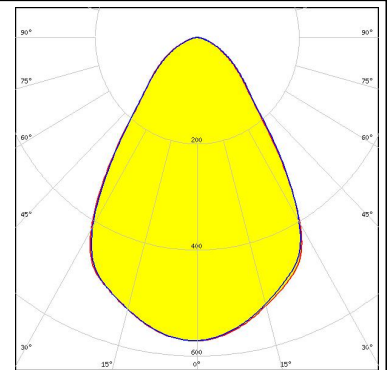
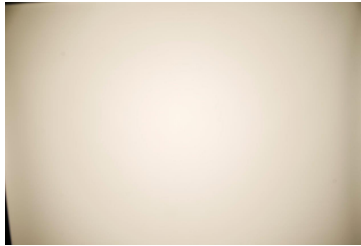




#### PHOTOMETRIC DATA (MEASURED):

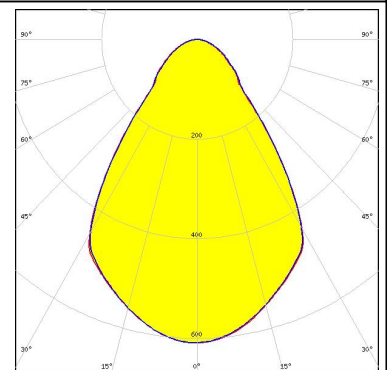
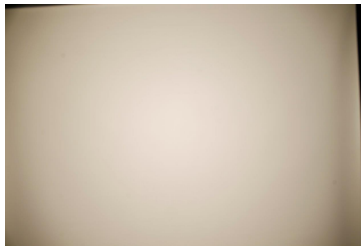
**CREE** 

LED CXA/B 30xx  
 FWHM 77.0°  
 Efficiency 87 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12606\_LENINA-DL  
 IDEAL: 50-2234C + 50-2100LN



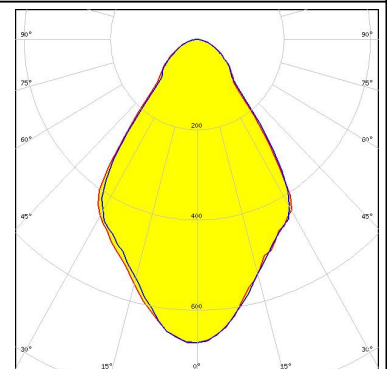
**CREE** 

LED CXA/B 30xx  
 FWHM 72.0°  
 Efficiency 91 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 IDEAL: 50-2234C + 50-2100LN



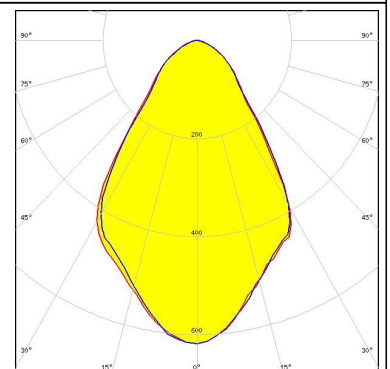
**CREE** 

LED CXA2011  
 FWHM 72.0°  
 Efficiency 87 %  
 Peak intensity 0.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12105\_LENINA-STD-BASE-CXA20



**CREE** 

LED CXA2011  
 FWHM 70.0°  
 Efficiency 82 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12105\_LENINA-STD-BASE-CXA20  
 C12606\_LENINA-DL



#### PHOTOMETRIC DATA (MEASURED):

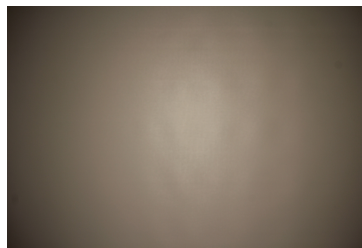
#### EVERLIGHT

LED CHI3030 19W  
FWHM 75.0°  
Efficiency 94 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13867\_LENINA-STD-BASE-VERO29  
C12606\_LENINA-DL  
Bender Wirth: 468 Typ L3



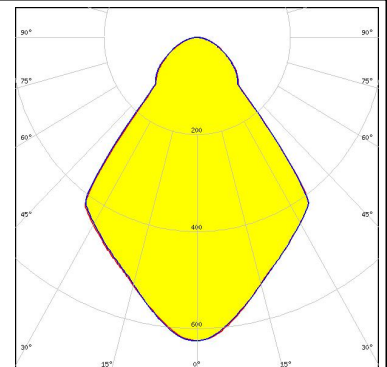
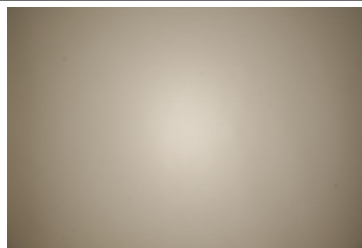
#### EVERLIGHT

LED CHI3030 29W  
FWHM 75.0°  
Efficiency 90 %  
Peak intensity 0.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13867\_LENINA-STD-BASE-VERO29  
C12606\_LENINA-DL  
Bender Wirth: 468 Typ L3



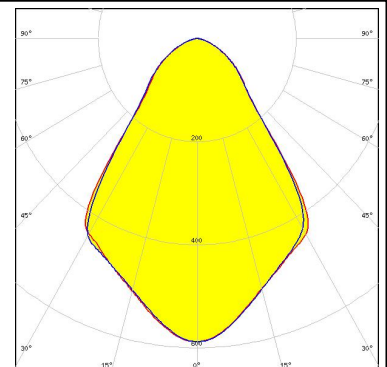
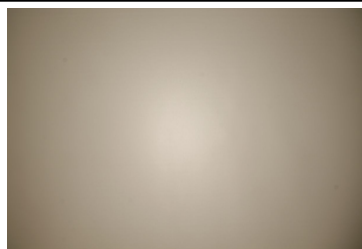
#### LUMILEDS

LED LUXEON CoB 1202/1203  
FWHM 76.0°  
Efficiency 93 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13868\_LENINA-STD-BASE-VERO13-18  
Bender Wirth: 438 Typ L1



#### LUMILEDS

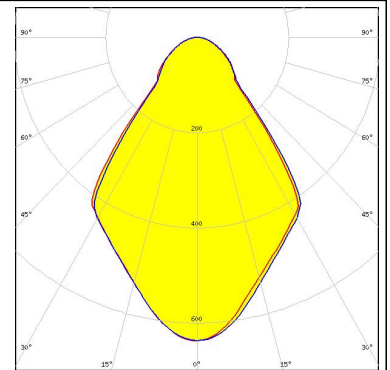
LED LUXEON CoB 1202/1203  
FWHM 74.0°  
Efficiency 89 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13868\_LENINA-STD-BASE-VERO13-18  
C12606\_LENINA-DL  
Bender Wirth: 438 Typ L1



#### PHOTOMETRIC DATA (MEASURED):

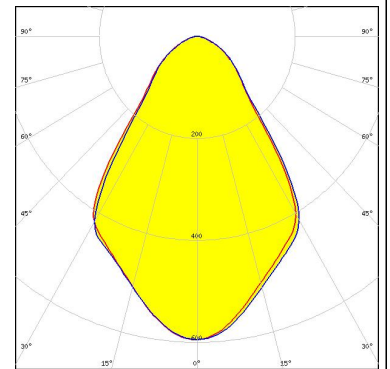
#### LUMILEDS

LED LUXEON CoB 1204/1205  
 FWHM 73.0°  
 Efficiency 90 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12292\_LENINA-STD-BASE-MEZ



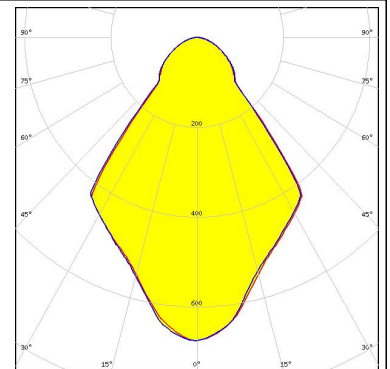
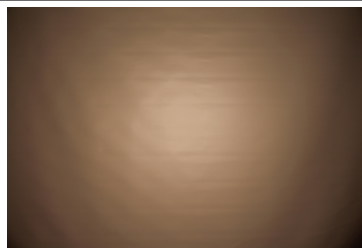
#### LUMILEDS

LED LUXEON CoB 1204/1205  
 FWHM 71.0°  
 Efficiency 86 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12292\_LENINA-STD-BASE-MEZ  
 C12606\_LENINA-DL



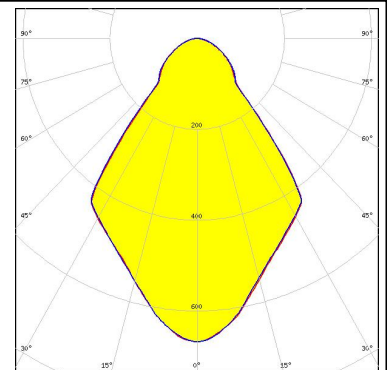
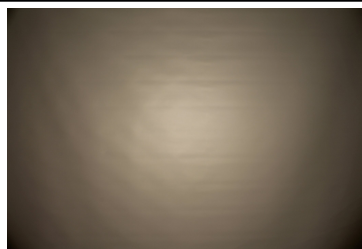
#### LUMILEDS

LED LUXEON CoB 1204HD  
 FWHM 74.0°  
 Efficiency 94 %  
 Peak intensity 0.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C11981\_LENINA-STD-BASE-COB-L110



#### LUMILEDS

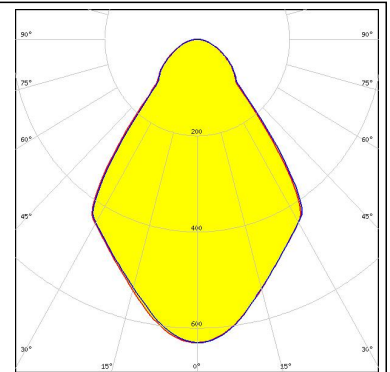
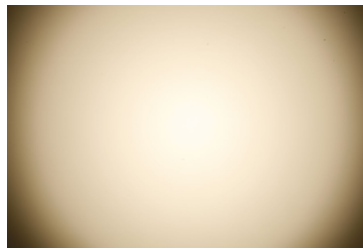
LED LUXEON CoB 1205HD  
 FWHM 74.0°  
 Efficiency 94 %  
 Peak intensity 0.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C11981\_LENINA-STD-BASE-COB-L110



#### PHOTOMETRIC DATA (MEASURED):

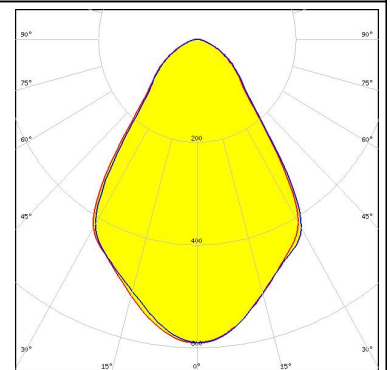
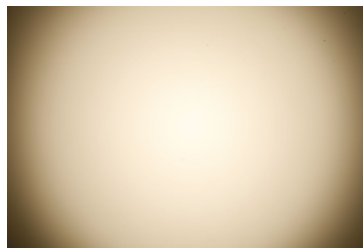
#### LUMILEDS

LED LUXEON CoB 1208  
 FWHM 73.0°  
 Efficiency 91 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12292\_LENINA-STD-BASE-MEZ



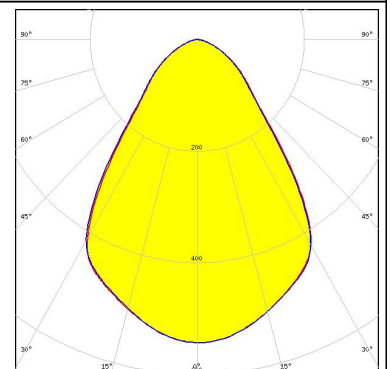
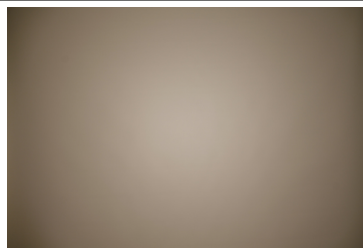
#### LUMILEDS

LED LUXEON CoB 1208  
 FWHM 72.0°  
 Efficiency 86 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12292\_LENINA-STD-BASE-MEZ  
 C12606\_LENINA-DL



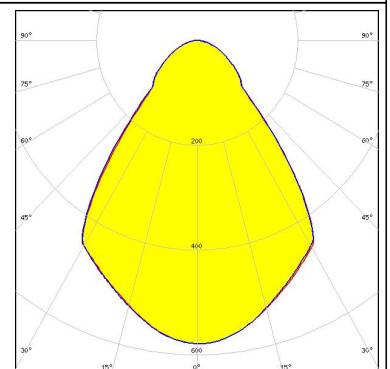
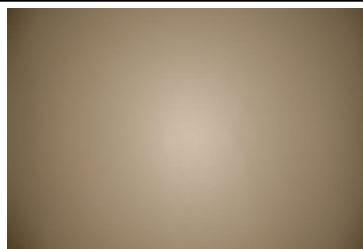
#### LUMILEDS

LED LUXEON CoB 1211  
 FWHM 75.0°  
 Efficiency 88 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13867\_LENINA-STD-BASE-VERO29  
 C12606\_LENINA-DL  
 Bender Wirth: 431 Typ L3

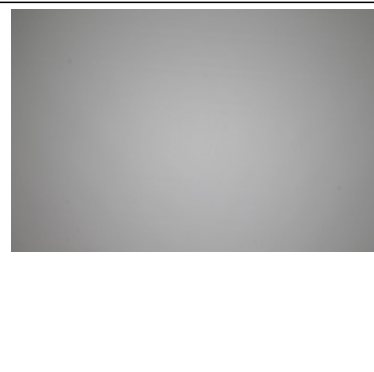
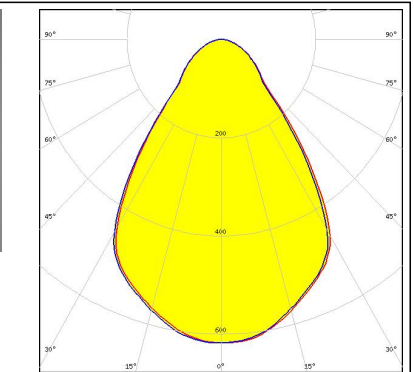
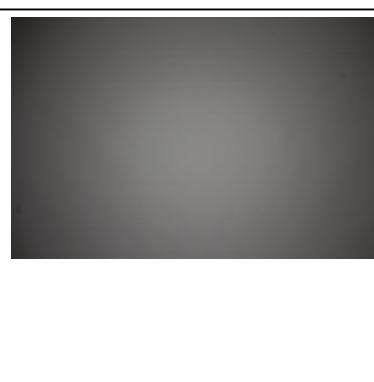
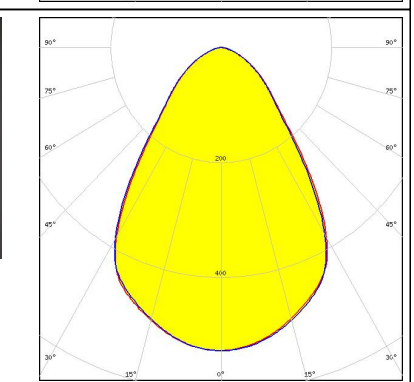
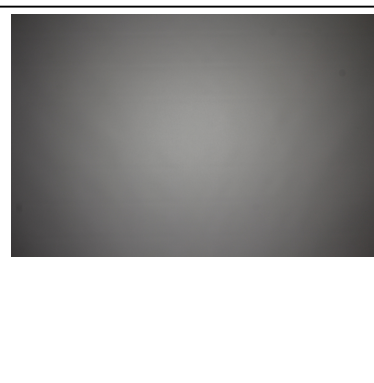
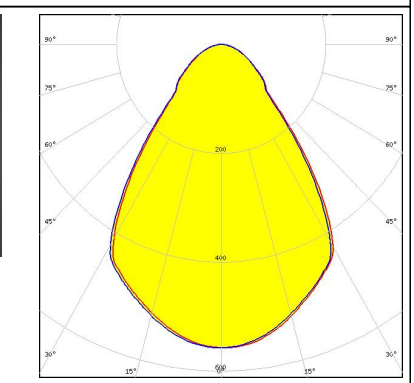

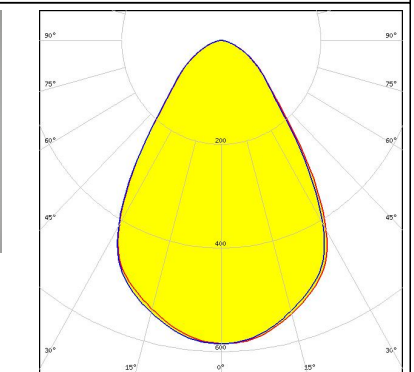


#### LUMILEDS

LED LUXEON CoB 1211  
 FWHM 76.0°  
 Efficiency 93 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13867\_LENINA-STD-BASE-VERO29  
 Bender Wirth: 431 Typ L3



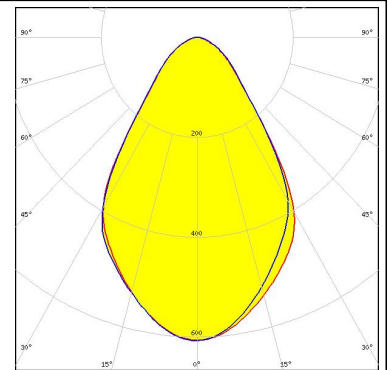
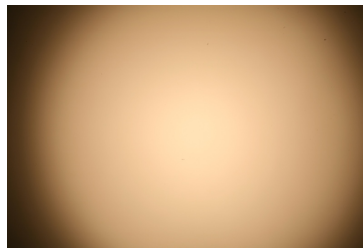
#### PHOTOMETRIC DATA (MEASURED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1216/1812            FWHM 73.0°            Efficiency 94 %            Peak intensity 0.6 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C12692_LENINA-STD-BASE-CLL040</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1216/1812            FWHM 73.0°            Efficiency 83 %            Peak intensity 0.5 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C12606_LENINA-DL            A.A.G. STUCCHI: 8102/G2 + S-8000/12</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1216/1812            FWHM 74.0°            Efficiency 88 %            Peak intensity 0.6 cd/lm            LEDs/each optic 1            Light colour White            Required components:            A.A.G. STUCCHI: 8102/G2 + S-8000/12</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1216/1812            FWHM 72.0°            Efficiency 90 %            Peak intensity 0.6 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C12692_LENINA-STD-BASE-CLL040            C12606_LENINA-DL</p>		

#### PHOTOMETRIC DATA (MEASURED):

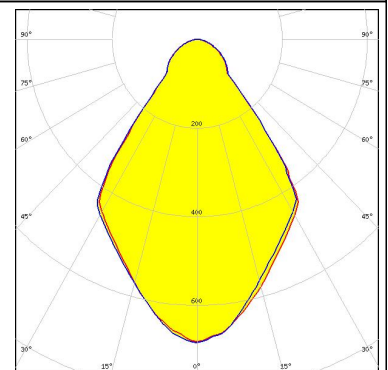
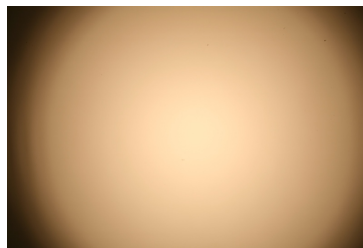
#### LUMILEDS

LED LUXEON K12  
 FWHM 68.0°  
 Efficiency 83 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12924\_LENASTD-BASE-LUXEON-K  
 C12606\_LENINA-DL



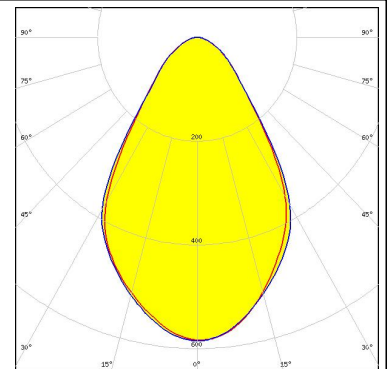
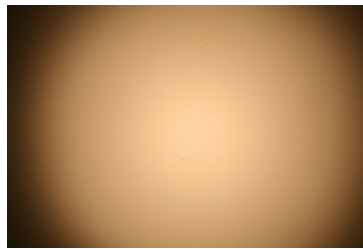
#### LUMILEDS

LED LUXEON K12  
 FWHM 72.0°  
 Efficiency 90 %  
 Peak intensity 0.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12924\_LENASTD-BASE-LUXEON-K



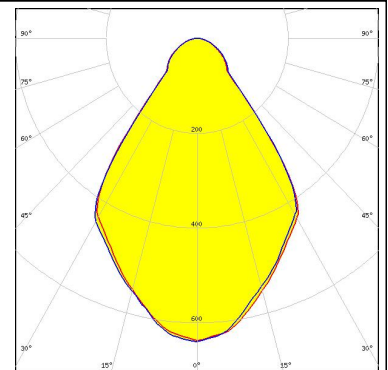
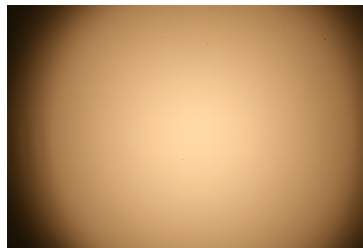
#### LUMILEDS

LED LUXEON K16  
 FWHM 68.0°  
 Efficiency 80 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12924\_LENASTD-BASE-LUXEON-K  
 C12606\_LENINA-DL


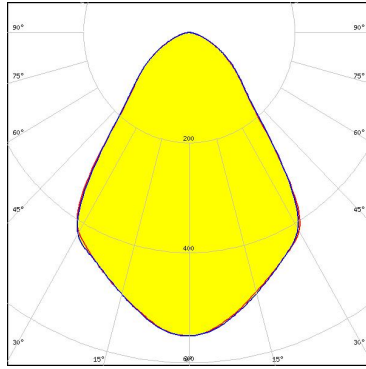
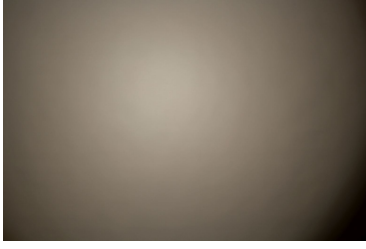
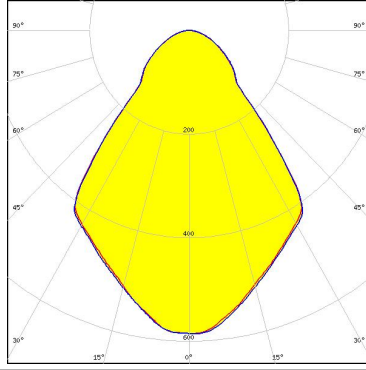
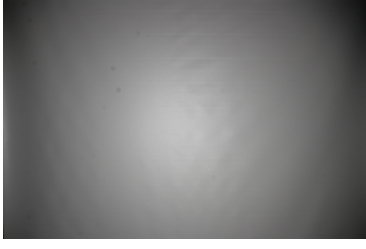
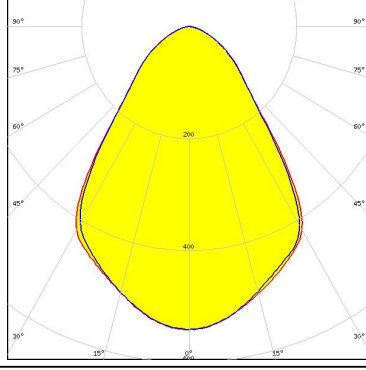
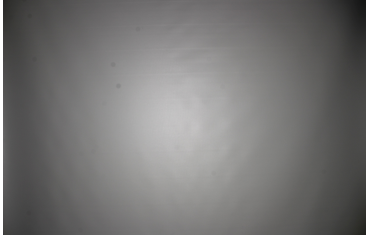
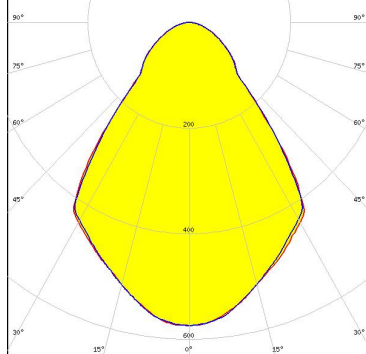


#### LUMILEDS

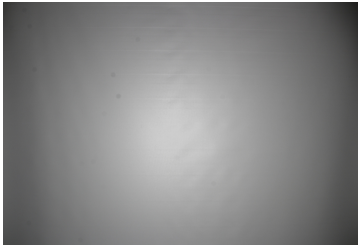
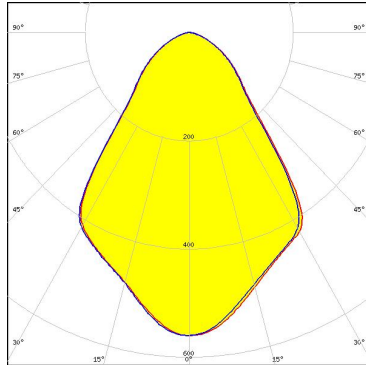
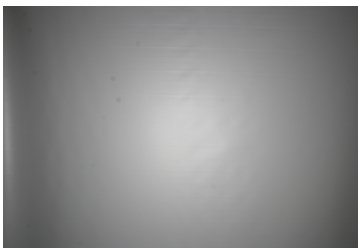
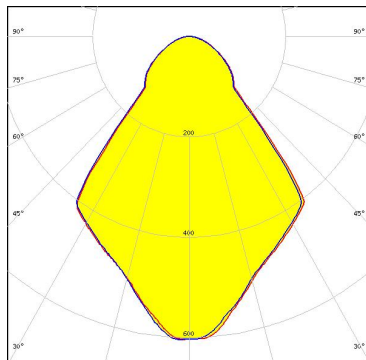

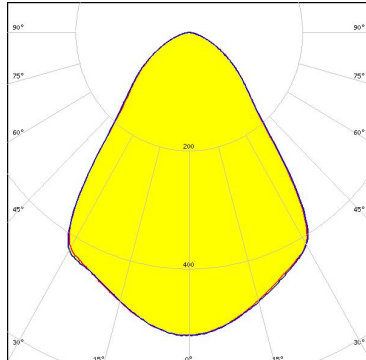
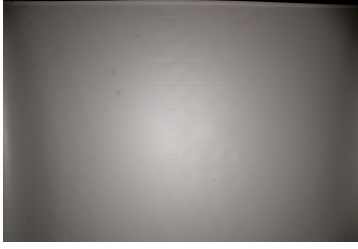
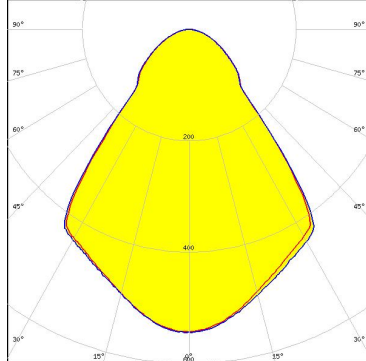
LED LUXEON K16  
 FWHM 72.0°  
 Efficiency 86 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12924\_LENASTD-BASE-LUXEON-K



#### PHOTOMETRIC DATA (MEASURED):

<p><b>LUMINUS</b></p> <p>LED CDM-14 (Dim-To-Warm)            FWHM 75.0°            Efficiency 89 %            Peak intensity 0.6 cd/lm            LEDs/each optic 1            Light colour White</p> <p>Required components:            C13868_LENINA-STD-BASE-VERO13-18            C12606_LENINA-DL            Bender Wirth: 491 Typ L2</p>		
<p><b>LUMINUS</b></p> <p>LED CDM-14 (Dim-To-Warm)            FWHM 77.0°            Efficiency 93 %            Peak intensity 0.6 cd/lm            LEDs/each optic 1            Light colour White</p> <p>Required components:            C13868_LENINA-STD-BASE-VERO13-18            Bender Wirth: 491 Typ L2</p>		
<p><b>LUMINUS</b></p> <p>LED CDM-18 (Dim-To-Warm)            FWHM 75.0°            Efficiency 89 %            Peak intensity 0.5 cd/lm            LEDs/each optic 1            Light colour White</p> <p>Required components:            C13868_LENINA-STD-BASE-VERO13-18            C12606_LENINA-DL            Bender Wirth: 491 Typ L2</p>		
<p><b>LUMINUS</b></p> <p>LED CDM-18 (Dim-To-Warm)            FWHM 76.0°            Efficiency 93 %            Peak intensity 0.6 cd/lm            LEDs/each optic 1            Light colour White</p> <p>Required components:            C13868_LENINA-STD-BASE-VERO13-18            Bender Wirth: 491 Typ L2</p>		

#### PHOTOMETRIC DATA (MEASURED):

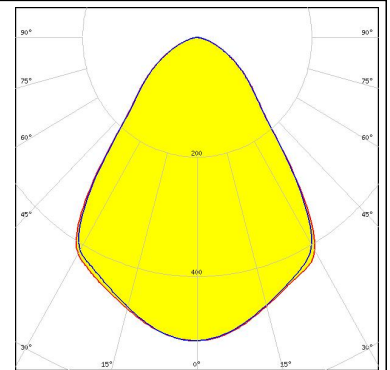
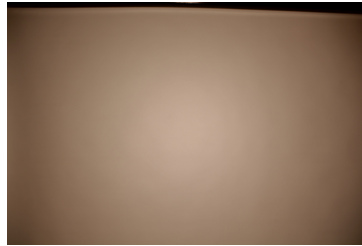
<p><b>LUMINUS</b></p> <p>LED CDM-9 (Dim-To-Warm)            FWHM 74.0°            Efficiency 88 %            Peak intensity 0.6 cd/lm            LEDs/each optic 1            Light colour White</p> <p>Required components:            C13868_LENASTD-BASE-VERO13-18            Bender Wirth: 490 Typ L1</p>		
<p><b>LUMINUS</b></p> <p>LED CDM-9 (Dim-To-Warm)            FWHM 76.0°            Efficiency 92 %            Peak intensity 0.6 cd/lm            LEDs/each optic 1            Light colour White</p> <p>Required components:            C13868_LENASTD-BASE-VERO13-18            Bender Wirth: 490 Typ L1</p>		
<p><b>LUMINUS</b></p> <p>LED CTM-14 (Tunable White)            FWHM 76.0°            Efficiency 87 %            Peak intensity 0.5 cd/lm            LEDs/each optic 1            Light colour White</p> <p>Required components:            C13867_LENASTD-BASE-VERO29            C12606_LENINA-DL            Bender Wirth: 442 Typ L3</p>		
<p><b>LUMINUS</b></p> <p>LED CTM-14 (Tunable White)            FWHM 77.0°            Efficiency 92 %            Peak intensity 0.6 cd/lm            LEDs/each optic 1            Light colour White</p> <p>Required components:            C13867_LENASTD-BASE-VERO29            Bender Wirth: 442 Typ L3</p>		



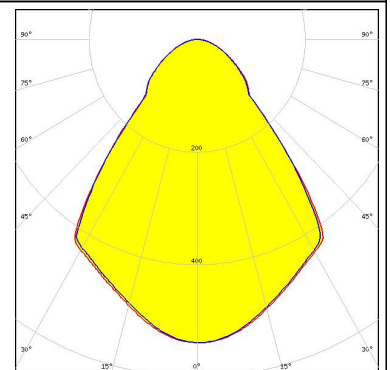
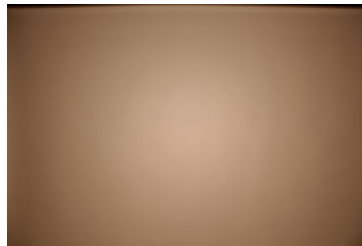
#### PHOTOMETRIC DATA (MEASURED):



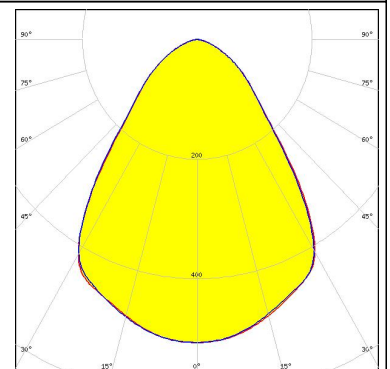
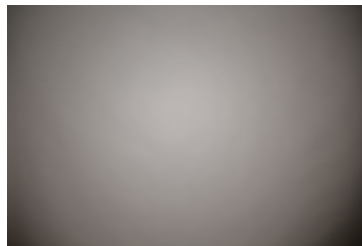
LED CTM-18 (Tunable White)  
 FWHM 77.0°  
 Efficiency 87 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13867\_LENINA-STD-BASE-VERO29  
 C12606\_LENINA-DL  
 Bender Wirth: 442 Typ L3



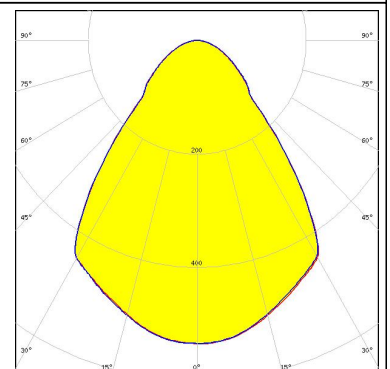
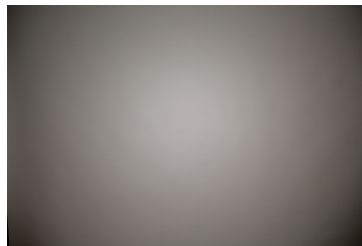
LED CTM-18 (Tunable White)  
 FWHM 78.0°  
 Efficiency 92 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13867\_LENINA-STD-BASE-VERO29  
 Bender Wirth: 442 Typ L3



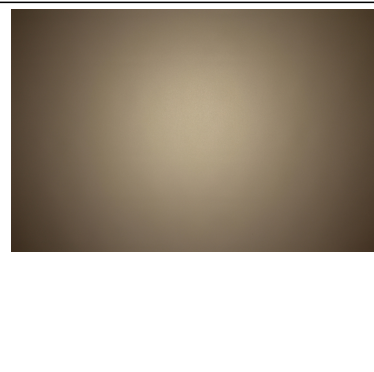
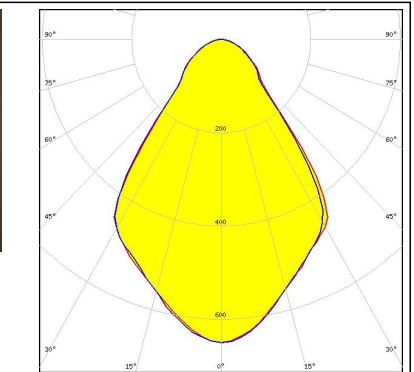
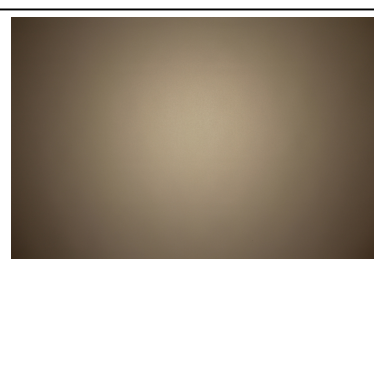
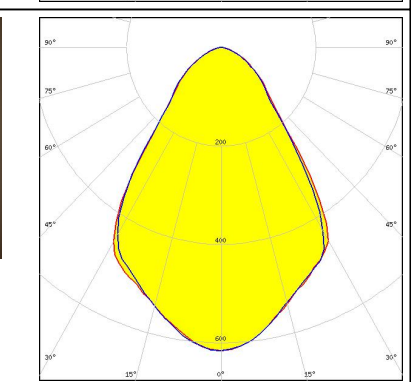
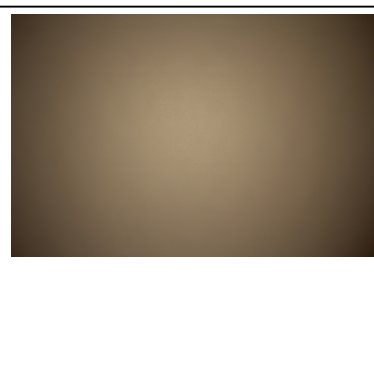

LED CTM-22 (Tunable White)  
 FWHM 77.0°  
 Efficiency 88 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13867\_LENINA-STD-BASE-VERO29  
 C12606\_LENINA-DL  
 Bender Wirth: 494 Typ L3



LED CTM-22 (Tunable White)  
 FWHM 78.0°  
 Efficiency 92 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13867\_LENINA-STD-BASE-VERO29  
 Bender Wirth: 494 Typ L3



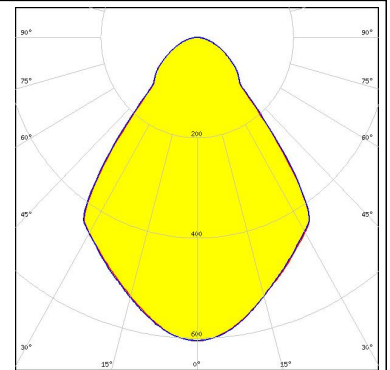
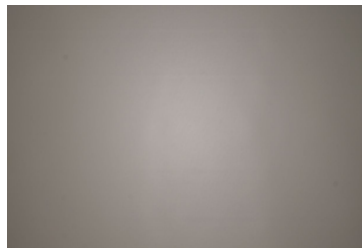
#### PHOTOMETRIC DATA (MEASURED):

<p><b>LUMINUS</b></p> <p>LED CxM-14 (19x19)            FWHM 74.0°            Efficiency 94 %            Peak intensity 0.7 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C12691_LENINA-STD-BASE-CLL030</p>		
<p><b>LUMINUS</b></p> <p>LED CxM-14 (19x19)            FWHM 73.0°            Efficiency 91 %            Peak intensity 0.6 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C12691_LENINA-STD-BASE-CLL030            C12606_LENINA-DL</p>		
<p><b>LUMINUS</b></p> <p>LED CxM-22 (28x28)            FWHM 73.0°            Efficiency 91 %            Peak intensity 0.6 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C12692_LENINA-STD-BASE-CLL040            C12606_LENINA-DL</p>		
<p><b>LUMINUS</b></p> <p>LED CxM-22 (28x28)            FWHM 73.0°            Efficiency 94 %            Peak intensity 0.6 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C12692_LENINA-STD-BASE-CLL040</p>		

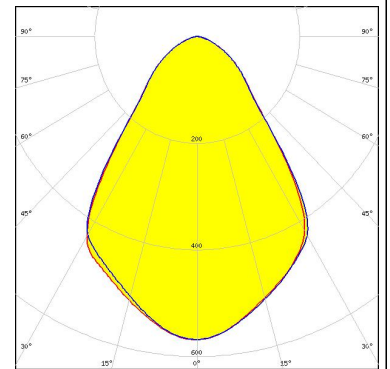
#### PHOTOMETRIC DATA (MEASURED):



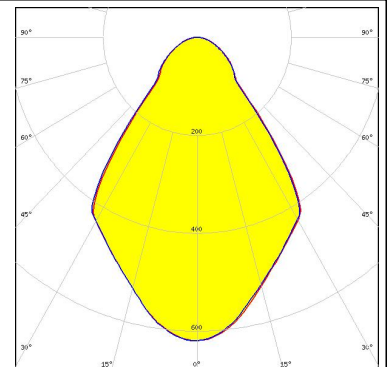
LED COB J-Type  
 FWHM 76.0°  
 Efficiency 94 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13868\_LENASTD-BASE-VERO13-18  
 Bender Wirth: 463 Typ L2



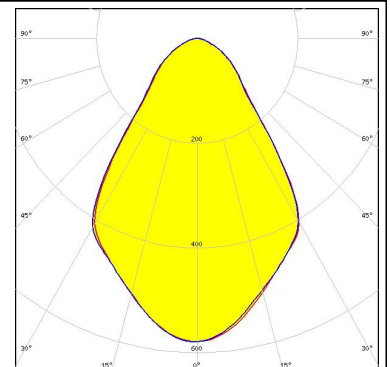
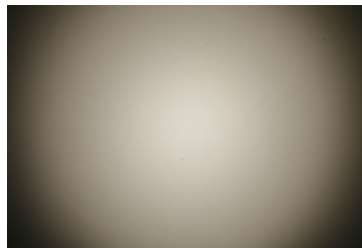
LED COB J-Type  
 FWHM 74.0°  
 Efficiency 89 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13868\_LENASTD-BASE-VERO13-18  
 C12606\_LENINA-DL  
 Bender Wirth: 463 Typ L2




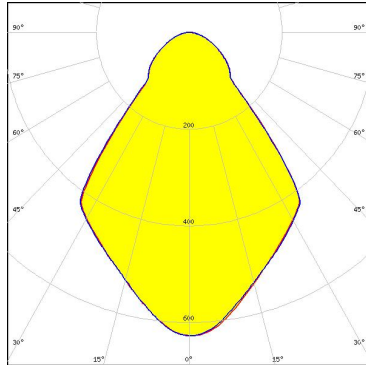
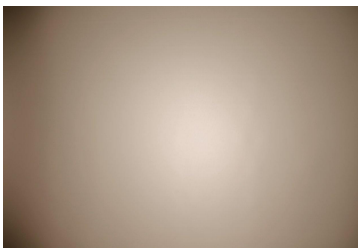
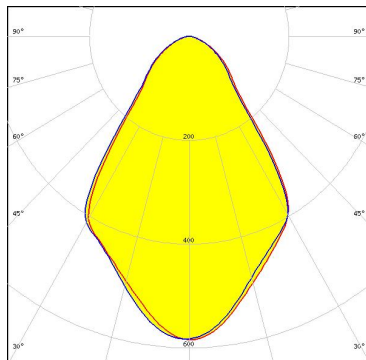

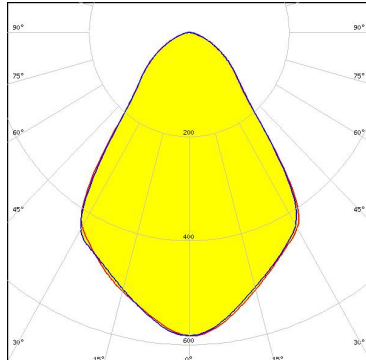
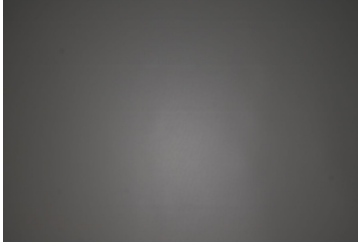
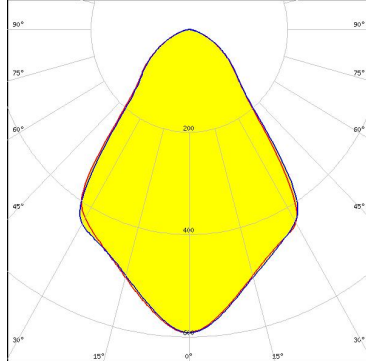
LED COB J-Type  
 FWHM 73.0°  
 Efficiency 89 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12292\_LENASTD-BASE-MEZ



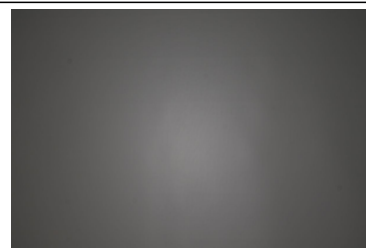
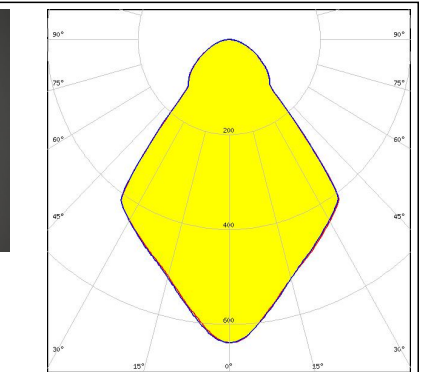
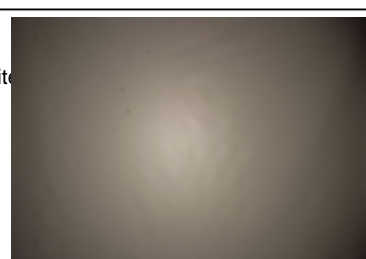
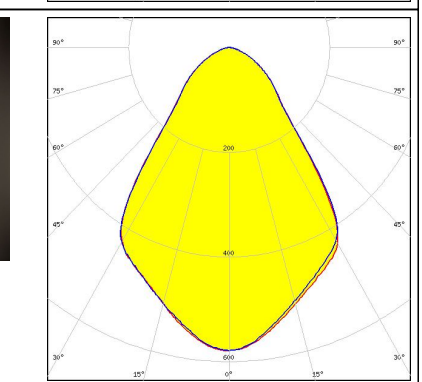
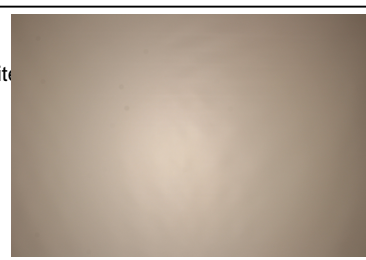
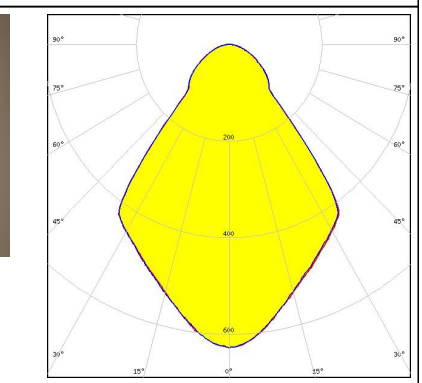
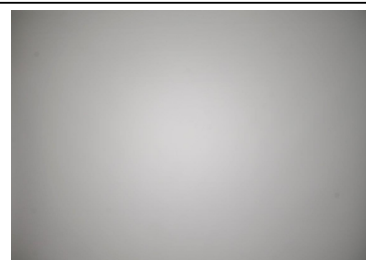
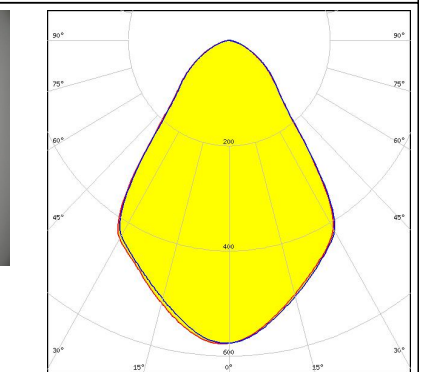
LED COB J-Type  
 FWHM 72.0°  
 Efficiency 84 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12292\_LENASTD-BASE-MEZ  
 C12606\_LENINA-DL



#### PHOTOMETRIC DATA (MEASURED):

<p><b>NICHIA</b></p> <p>LED COB L-Type (LES 11)            FWHM 75.0°            Efficiency 93 %            Peak intensity 0.6 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C13868_LENINA-STD-BASE-VERO13-18            Bender Wirth: 438 Typ L1</p>		
<p><b>NICHIA</b></p> <p>LED COB L-Type (LES 11)            FWHM 71.0°            Efficiency 82 %            Peak intensity 0.6 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C11981_LENINA-STD-BASE-COB-L110            C12606_LENINA-DL</p>		
<p><b>NICHIA</b></p> <p>LED COB L-Type (LES 11)            FWHM 73.0°            Efficiency 89 %            Peak intensity 0.6 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C13868_LENINA-STD-BASE-VERO13-18            C12606_LENINA-DL            Bender Wirth: 438 Typ L1</p>		
<p><b>NICHIA</b></p> <p>LED COB L-Type (LES 9)            FWHM 74.0°            Efficiency 90 %            Peak intensity 0.6 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C13868_LENINA-STD-BASE-VERO13-18            C12606_LENINA-DL            Bender Wirth: 438 Typ L1</p>		

#### PHOTOMETRIC DATA (MEASURED):

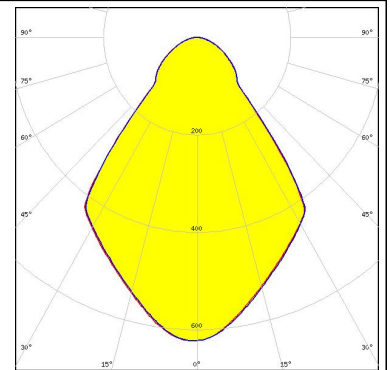
<p><b>NICHIA</b></p> <p>LED COB L-Type (LES 9)</p> <p>FWHM 76.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 0.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13868_LENINA-STD-BASE-VERO13-18 Bender Wirth: 438 Typ L1</p>		
<p><b>NICHIA</b></p> <p>LED NVCWJ024Z-V1MT: COB J-Type Tunable White</p> <p>FWHM 74.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 0.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13868_LENINA-STD-BASE-VERO13-18 C12606_LENINA-DL Bender Wirth: 498 Typ L2</p>		
<p><b>NICHIA</b></p> <p>LED NVCWJ024Z-V1MT: COB J-Type Tunable White</p> <p>FWHM 75.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 0.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13868_LENINA-STD-BASE-VERO13-18 Bender Wirth: 498 Typ L2</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED Soleriq S13</p> <p>FWHM 73.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 0.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13868_LENINA-STD-BASE-VERO13-18 C12606_LENINA-DL Bender Wirth: 437 Typ L1</p>		

#### PHOTOMETRIC DATA (MEASURED):

#### OSRAM

Opto Semiconductors

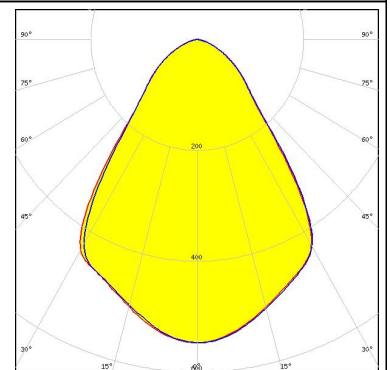
LED Soleriq S13  
 FWHM 75.0°  
 Efficiency 93 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13868\_LENINA-STD-BASE-VERO13-18  
 Bender Wirth: 437 Typ L1



#### OSRAM

Opto Semiconductors

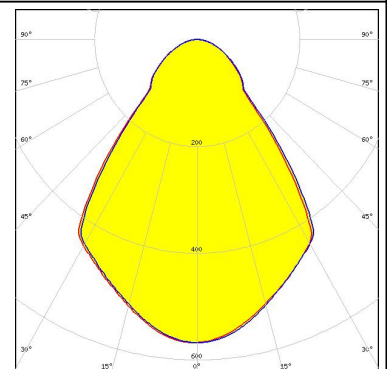
LED Soleriq S19  
 FWHM 75.0°  
 Efficiency 88 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13867\_LENINA-STD-BASE-VERO29  
 C12606\_LENINA-DL  
 Bender Wirth: 462 Typ L3



#### OSRAM

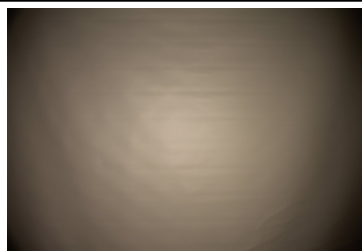
Opto Semiconductors

LED Soleriq S19  
 FWHM 76.0°  
 Efficiency 93 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13867\_LENINA-STD-BASE-VERO29  
 Bender Wirth: 462 Typ L3



#### PHILIPS

LED Fortimo SLM L13 CoB  
 FWHM 71.0°  
 Efficiency 88 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12292\_LENINA-STD-BASE-MEZ  
 C12606\_LENINA-DL



#### PHOTOMETRIC DATA (MEASURED):

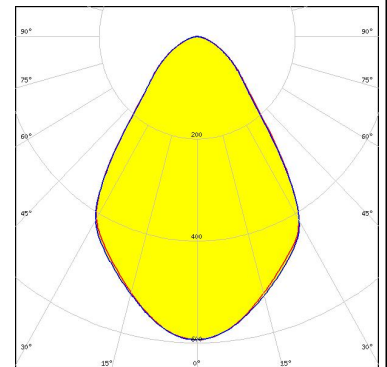
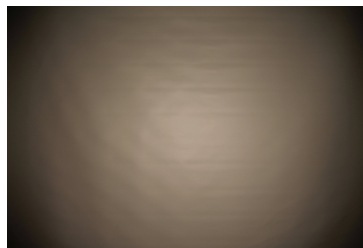
#### PHILIPS

LED Fortimo SLM L13 CoB  
 FWHM 74.0°  
 Efficiency 94 %  
 Peak intensity 0.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12292\_LENINA-STD-BASE-MEZ



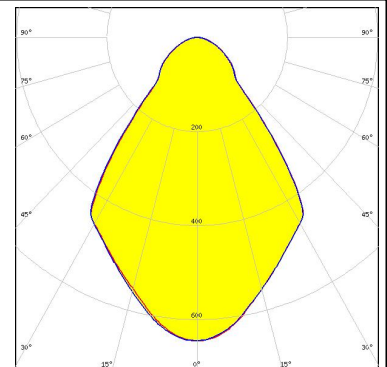
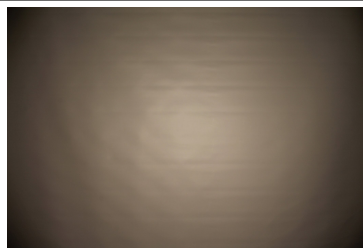
#### PHILIPS

LED Fortimo SLM L15 CoB  
 FWHM 72.0°  
 Efficiency 88 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12292\_LENINA-STD-BASE-MEZ  
 C12606\_LENINA-DL



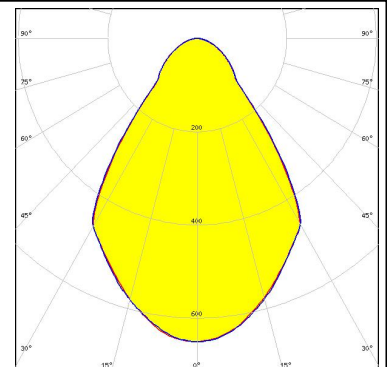
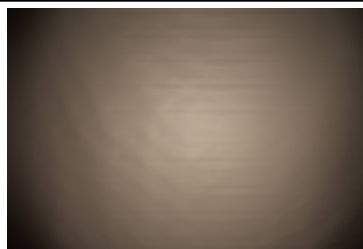
#### PHILIPS

LED Fortimo SLM L15 CoB  
 FWHM 73.0°  
 Efficiency 93 %  
 Peak intensity 0.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12292\_LENINA-STD-BASE-MEZ



#### PHILIPS

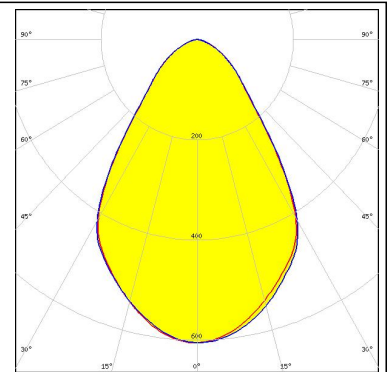
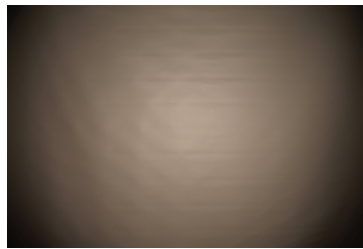
LED Fortimo SLM L19 CoB  
 FWHM 72.0°  
 Efficiency 94 %  
 Peak intensity 0.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12692\_LENINA-STD-BASE-CLL040



#### PHOTOMETRIC DATA (MEASURED):

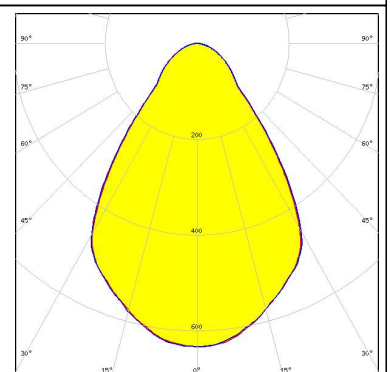
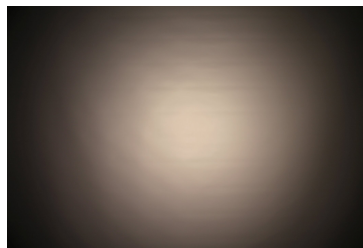
#### PHILIPS

LED Fortimo SLM L19 CoB  
 FWHM 71.0°  
 Efficiency 88 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12692\_LENINA-STD-BASE-CLL040  
 C12606\_LENINA-DL



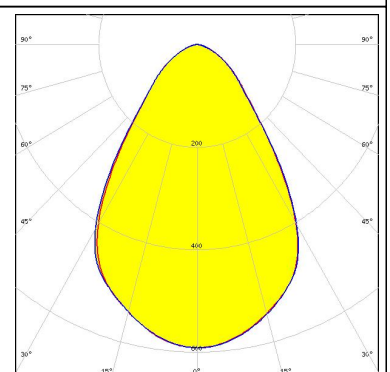
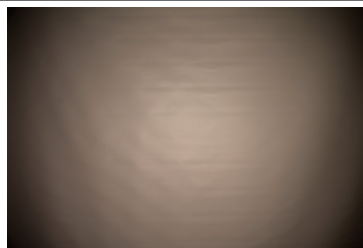
#### PHILIPS

LED Fortimo SLM L23 CoB  
 FWHM 72.0°  
 Efficiency 94 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12692\_LENINA-STD-BASE-CLL040



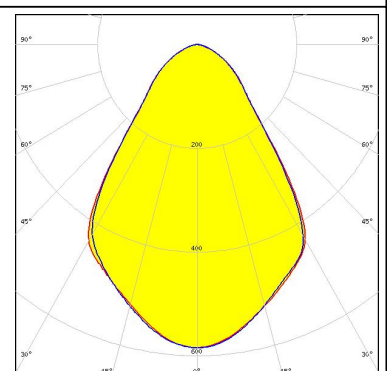
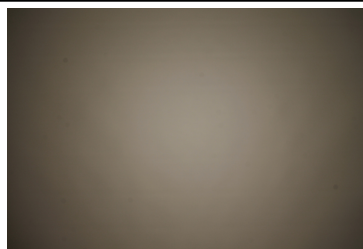
#### PHILIPS

LED Fortimo SLM L23 CoB  
 FWHM 71.0°  
 Efficiency 88 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12692\_LENINA-STD-BASE-CLL040  
 C12606\_LENINA-DL



#### SAMSUNG

LED LC016D / LC019D / LC026D / LC033D  
 FWHM 73.0°  
 Efficiency 89 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12691\_LENINA-STD-BASE-CLL030  
 C12606\_LENINA-DL

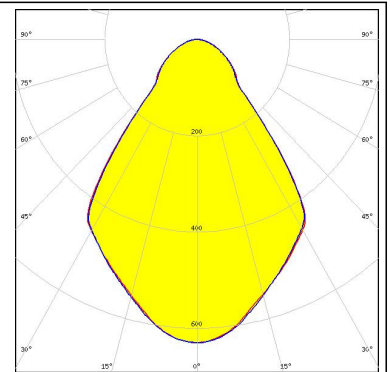
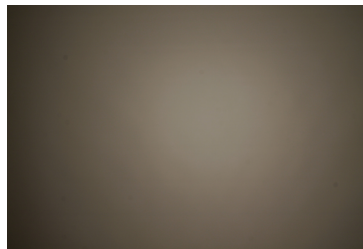




#### PHOTOMETRIC DATA (MEASURED):

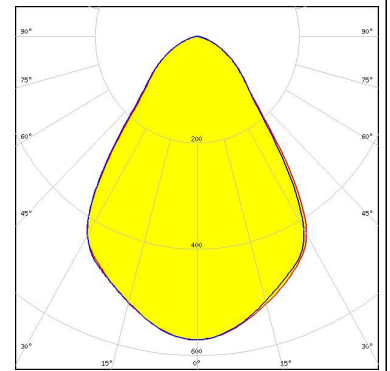
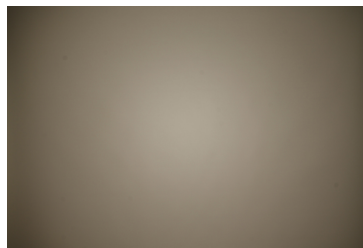
### SAMSUNG

LED LC016D / LC019D / LC026D / LC033D  
 FWHM 74.0°  
 Efficiency 94 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12691\_LENINA-STD-BASE-CLL030



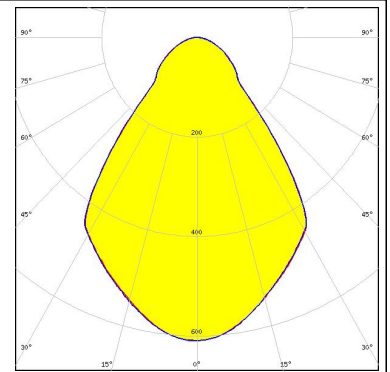
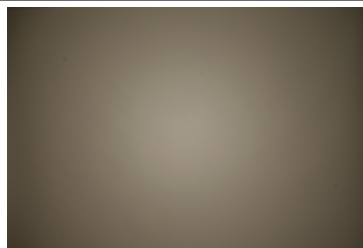
### SAMSUNG

LED LC026B / 033B / 040B  
 FWHM 74.0°  
 Efficiency 90 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13868\_LENINA-STD-BASE-VERO13-18  
 C12606\_LENINA-DL  
 Bender Wirth: 450 Typ L2



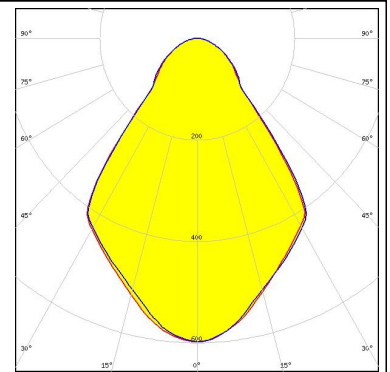
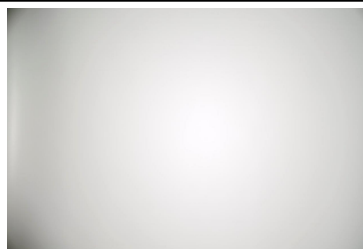
### SAMSUNG

LED LC026B / 033B / 040B  
 FWHM 75.0°  
 Efficiency 94 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13868\_LENINA-STD-BASE-VERO13-18  
 Bender Wirth: 450 Typ L2


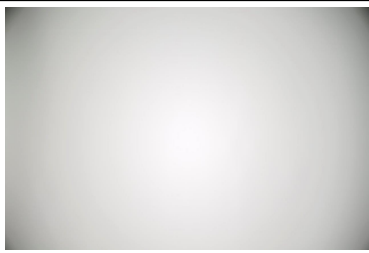
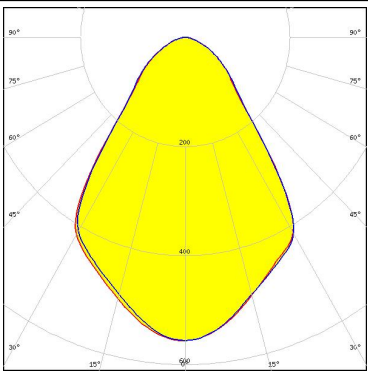

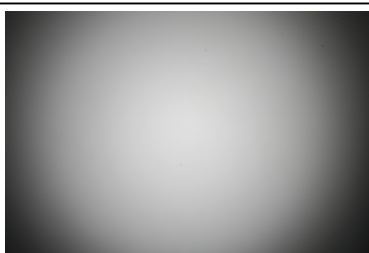
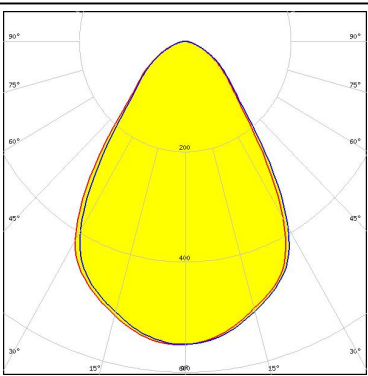

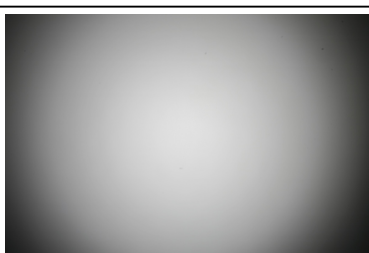
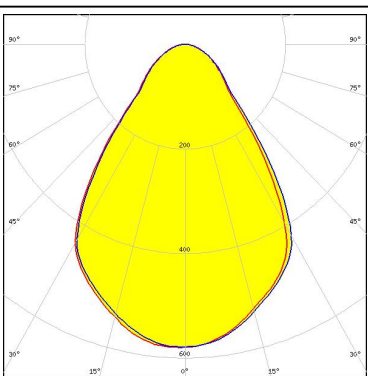
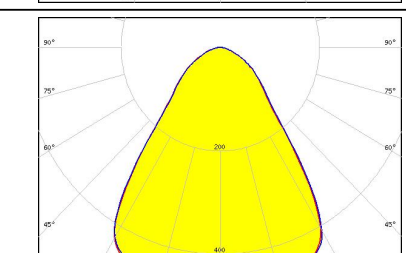
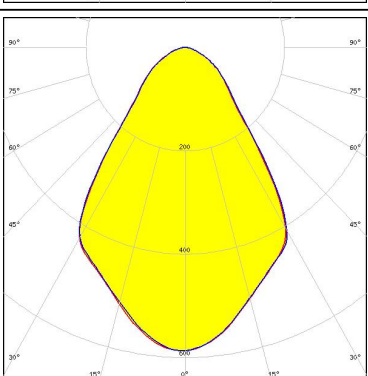


SEOUL SEMICONDUCTOR

LED ZC12/18  
 FWHM 75.0°  
 Efficiency 90 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12691\_LENINA-STD-BASE-CLL030



#### PHOTOMETRIC DATA (MEASURED):

<p> SEUL SEUL SEMICONDUCTOR</p> <p>LED ZC12/18 FWHM 73.0° Efficiency 86 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White</p> <p>Required components: C12691_LENINA-STD-BASE-CLL030 C12606_LENINA-DL</p>		
<p> SEUL SEUL SEMICONDUCTOR</p> <p>LED ZC25/40/60 FWHM 72.0° Efficiency 85 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White</p> <p>Required components: C12692_LENINA-STD-BASE-CLL040 C12606_LENINA-DL</p>		
<p> SEUL SEUL SEMICONDUCTOR</p> <p>LED ZC25/40/60 FWHM 73.0° Efficiency 89 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White</p> <p>Required components: C12692_LENINA-STD-BASE-CLL040</p>		
<p><b>SHARP</b></p> <p>LED Mega Zenigata (GW5DGC) FWHM 72.0° Efficiency 86 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White</p> <p>Required components: C12292_LENINA-STD-BASE-MEZ C12606_LENINA-DL</p>		

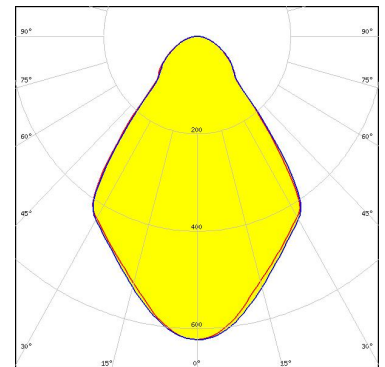
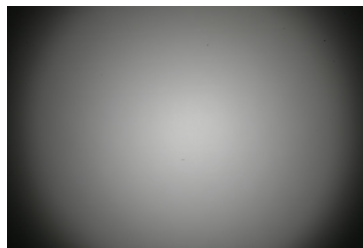
#### PHOTOMETRIC DATA (MEASURED):

### SHARP

LED Mega Zenigata (GW5DGC)  
FWHM 73.0°  
Efficiency 90 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C12292\_LENINA-STD-BASE-MEZ

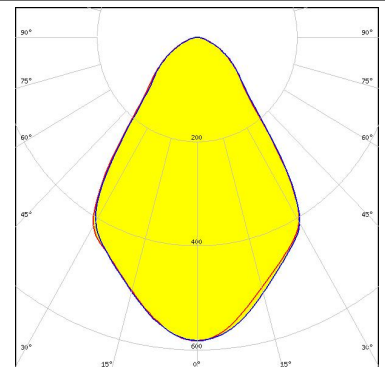
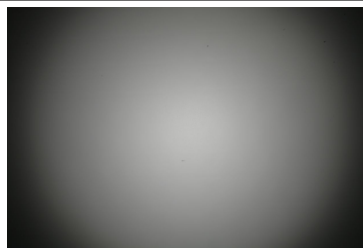
### SHARP

LED Mega Zenigata (GW6DME)  
FWHM 73.0°  
Efficiency 89 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C12292\_LENINA-STD-BASE-MEZ



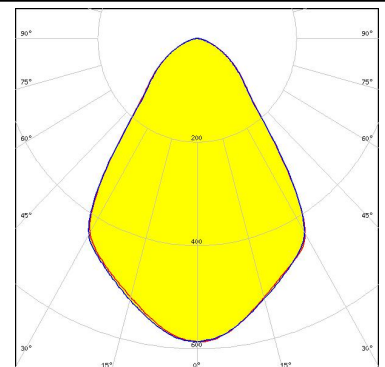
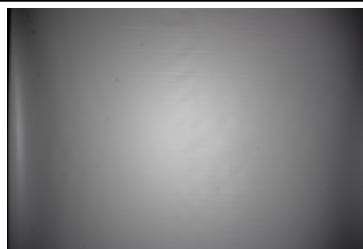
### SHARP

LED Mega Zenigata (GW6DME)  
FWHM 72.0°  
Efficiency 85 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C12292\_LENINA-STD-BASE-MEZ  
C12606\_LENINA-DL



### TRIDONIC

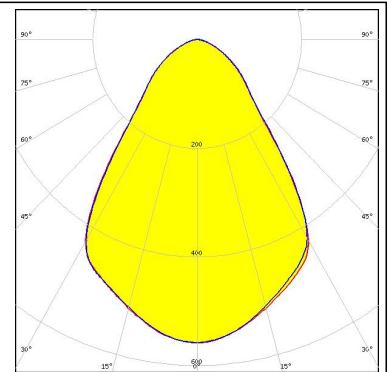
LED SLE G7 LES15  
FWHM 73.0°  
Efficiency 90 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C12691\_LENINA-STD-BASE-CLL030



#### PHOTOMETRIC DATA (MEASURED):

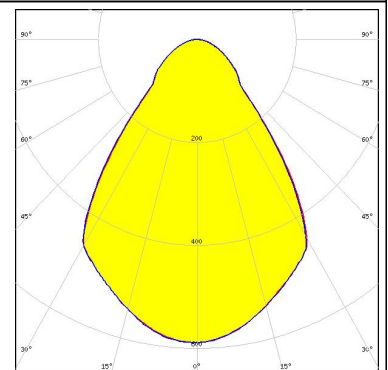
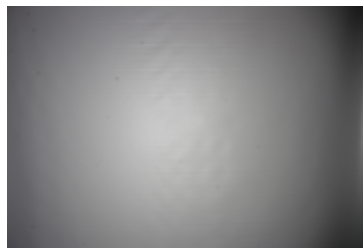
#### TRIDONIC

LED SLE G7 LES17 H  
FWHM 74.0°  
Efficiency 89 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C14547\_LENINA-ADAPTER-B



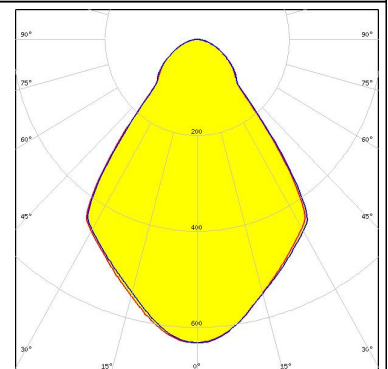
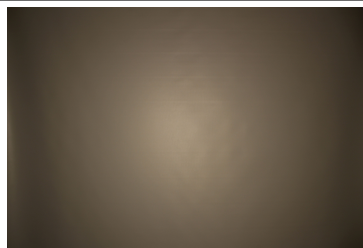
#### TRIDONIC

LED SLE G7 LES21 H  
FWHM 74.0°  
Efficiency 93 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C14547\_LENINA-ADAPTER-B

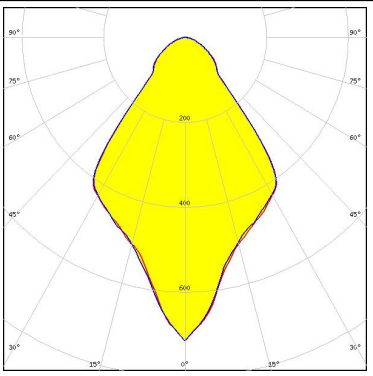
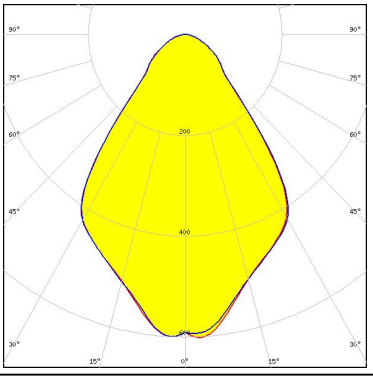
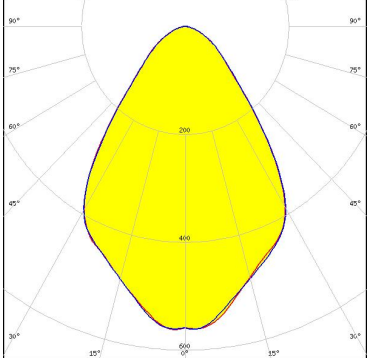


#### XICATO


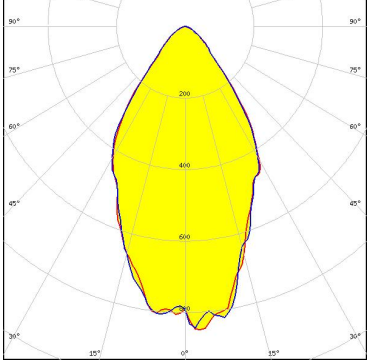

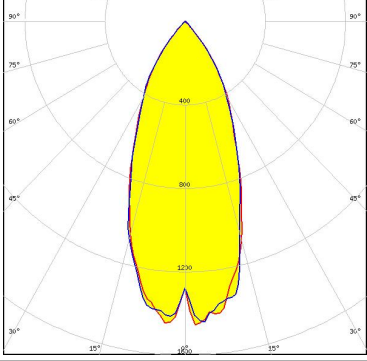


LED XOB 14.5 mm  
FWHM 74.0°  
Efficiency 94 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C12691\_LENINA-STD-BASE-CLL030



#### PHOTOMETRIC DATA (SIMULATED):

<p>bridgelux.</p> <p>LED V10 Gen7            FWHM 71.0°            Efficiency 86 %            Peak intensity 0.7 cd/lm            LEDs/each optic 1            Light colour White</p> <p>Required components:            C13868_LENINA-STD-BASE-VERO13-18            Bender Wirth: 486 Typ L1</p>	
<p>bridgelux.</p> <p>LED V13 Gen7            FWHM 73.0°            Efficiency 86 %            Peak intensity 0.6 cd/lm            LEDs/each optic 1            Light colour White</p> <p>Required components:            C13868_LENINA-STD-BASE-VERO13-18            Bender Wirth: 477 Typ L1</p>	
<p>bridgelux.</p> <p>LED V13 Gen7            FWHM 70.0°            Efficiency 83 %            Peak intensity 0.6 cd/lm            LEDs/each optic 1            Light colour White</p> <p>Required components:            C12606_LENINA-DL            IDEAL: 50-2103CT + 50-2100AN</p>	
<p>bridgelux.</p> <p>LED V13 Gen7            FWHM 72.0°            Efficiency 82 %            Peak intensity 0.6 cd/lm            LEDs/each optic 1            Light colour White</p> <p>Required components:            C13868_LENINA-STD-BASE-VERO13-18            C12606_LENINA-DL            Bender Wirth: 477 Typ L1</p>	

#### PHOTOMETRIC DATA (SIMULATED):

<p> <b>bridgelux</b></p> <p>LED V22 Gen7            FWHM 60.0°            Efficiency 85 %            Peak intensity 0.9 cd/lm            LEDs/each optic 1            Light colour White</p> <p>Required components:            C13867_LENINA-STD-BASE-VERO29            C12606_LENINA-DL            Bender Wirth: 431 Typ L3</p>	
<p> <b>bridgelux</b></p> <p>LED V22 Gen7            FWHM 60.0°            Efficiency 89 %            LEDs/each optic 1            Light colour White</p> <p>Required components:            C13867_LENINA-STD-BASE-VERO29            Bender Wirth: 431 Typ L3</p>	
<p> <b>LUMINUS</b></p> <p>LED CxM-14 (19x19)            FWHM 75.0°            Efficiency 94 %            Peak intensity 0.6 cd/lm            LEDs/each optic 1            Light colour White</p> <p>Required components:            C13868_LENINA-STD-BASE-VERO13-18            Bender Wirth: 433 Typ L1</p>	
<p> <b>LUMINUS</b></p> <p>LED CxM-14 (19x19)            FWHM 74.0°            Efficiency 89 %            Peak intensity 0.6 cd/lm            LEDs/each optic 1            Light colour White</p> <p>Required components:            C13868_LENINA-STD-BASE-VERO13-18            C12606_LENINA-DL            Bender Wirth: 433 Typ L1</p>	

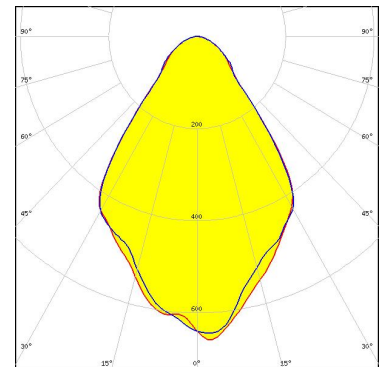
#### PHOTOMETRIC DATA (SIMULATED):



LED CxM-9 (13.5x13.5)  
FWHM 73.0°  
Efficiency 89 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13868\_LENINA-STD-BASE-VERO13-18  
C12606\_LENINA-DL  
Bender Wirth: 434 Typ L1



LED Soleriq S15  
FWHM 72.0°  
Efficiency 87 %  
Peak intensity 0.7 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C12691\_LENINA-STD-BASE-CLL030



SEOUL SEMICONDUCTOR


LED ZC12/18  
FWHM 75.0°  
Efficiency 94 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13868\_LENINA-STD-BASE-VERO13-18  
Bender Wirth: 433 Typ L1



SEOUL SEMICONDUCTOR

LED ZC12/18  
FWHM 74.0°  
Efficiency 89 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13868\_LENINA-STD-BASE-VERO13-18  
C12606\_LENINA-DL  
Bender Wirth: 433 Typ L1

## PHOTOMETRIC DATA (SIMULATED):

	
SEOUL SEMICONDUCTOR	
LED	ZC4/6
FWHM	73.0°
Efficiency	89 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13868_LENINA-STD-BASE-VERO13-18	
C12606_LENINA-DL	
Bender Wirth: 434 Typ L1	



### 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.

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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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Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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