

## LENINA-S

~19° spot beam

### TECHNICAL SPECIFICATIONS:

Dimensions	Ø 74.0 mm
Height	40 mm
Fastening	
Colour	metal
Box size	476 x 273 x 197 mm
Box weight	2 kg
Quantity in Box	60 pcs
ROHS compliant	yes ⓘ



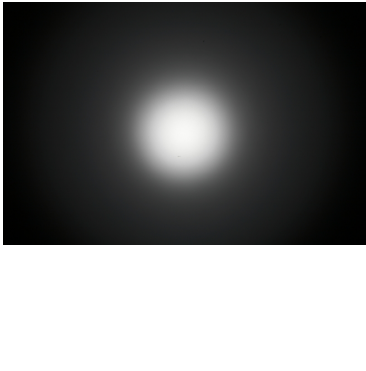
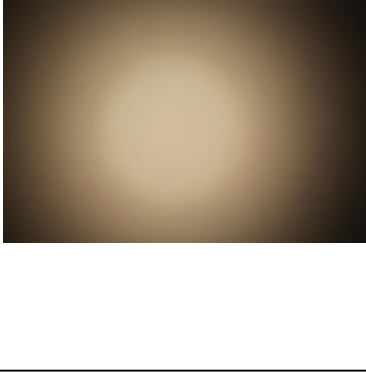
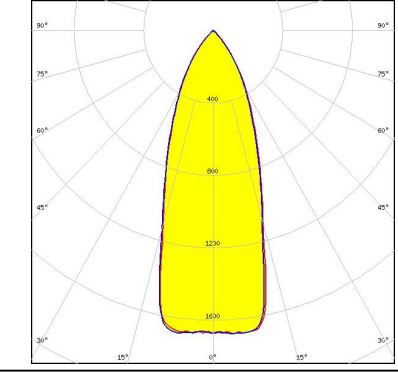

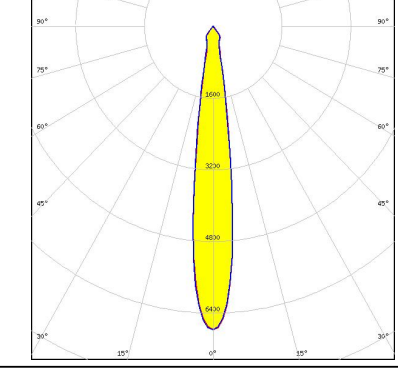

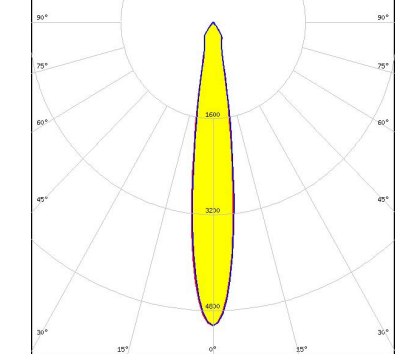
### MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Coating
LENINA-S	Reflector	PC	metal	lacquer


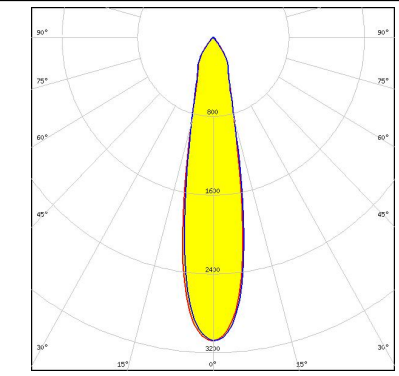

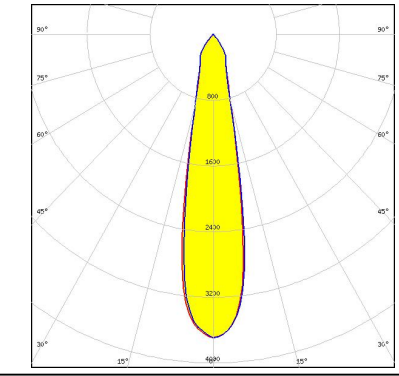
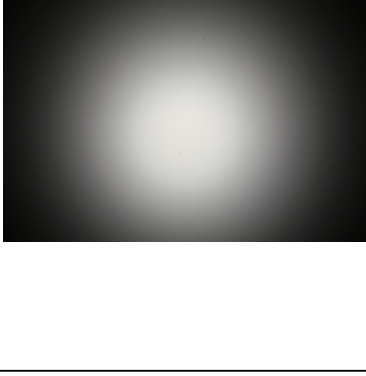
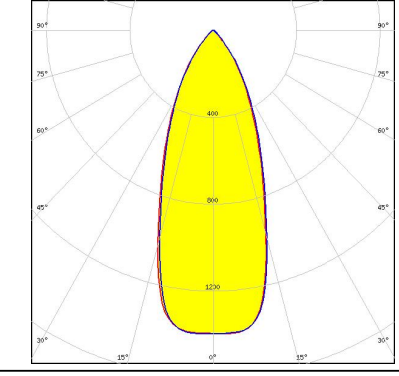

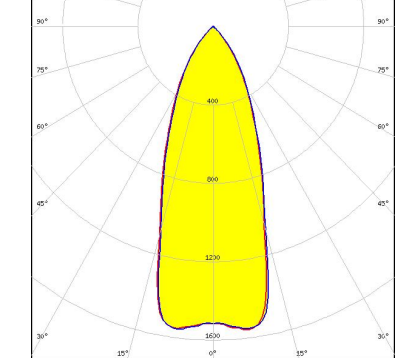
### PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED BXRA ES Rectangle</p> <p>FWHM 15.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C12153_LENINA-STD-BASE-BXRA</p>	
<p>bridgelux.</p> <p>LED BXRA ES Rectangle</p> <p>FWHM 20.0°</p> <p>Efficiency 80 %</p> <p>Peak intensity cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C12153_LENINA-STD-BASE-BXRA C12606_LENINA-DL</p>	
<p>bridgelux.</p> <p>LED BXRA RS</p> <p>FWHM 32.0°</p> <p>Efficiency 81 %</p> <p>Peak intensity 2.000 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C12229_LENINA-STD-BASE-RS C12606_LENINA-DL</p>	
<p>bridgelux.</p> <p>LED BXRA RS</p> <p>FWHM 28.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 2.292 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C12229_LENINA-STD-BASE-RS</p>	

#### PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED V10 Gen6</p> <p>FWHM 13.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 7.200 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>C13186_LENINA-STD-BASE-CXA15</p> <p>C12606_LENINA-DL</p>		
<p>bridgelux.</p> <p>LED Vero SE 29</p> <p>FWHM 38.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 1.700 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>C15083_LENINA-STD-BASE-VERO29</p>		
<p>bridgelux.</p> <p>LED VERO13</p> <p>FWHM 15.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 6.780 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>C13868_LENINA-STD-BASE-VERO13-18</p>		
<p>bridgelux.</p> <p>LED VERO13</p> <p>FWHM 16.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 5.050 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>C13868_LENINA-STD-BASE-VERO13-18</p> <p>C12606_LENINA-DL</p>		

### PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED VERO18 FWHM 22.0° Efficiency 86 % Peak intensity 3.060 cd/m LEDs/each optic 1 Light colour White Required components: C13868_LENINA-STD-BASE-VERO13-18 C12606_LENINA-DL</p>		
<p>bridgelux.</p> <p>LED VERO18 FWHM 21.0° Efficiency 90 % Peak intensity 3.700 cd/m LEDs/each optic 1 Light colour White Required components: C13868_LENINA-STD-BASE-VERO13-18</p>		
<p>bridgelux.</p> <p>LED VERO29 FWHM 40.0° Efficiency 85 % Peak intensity 1.500 cd/m LEDs/each optic 1 Light colour White Required components: C13867_LENINA-STD-BASE-VERO29 C12606_LENINA-DL</p>		
<p>bridgelux.</p> <p>LED VERO29 FWHM 40.0° Efficiency 89 % Peak intensity 1.560 cd/m LEDs/each optic 1 Light colour White Required components: C13867_LENINA-STD-BASE-VERO29</p>		

### PHOTOMETRIC DATA (MEASURED):

#### CITIZEN

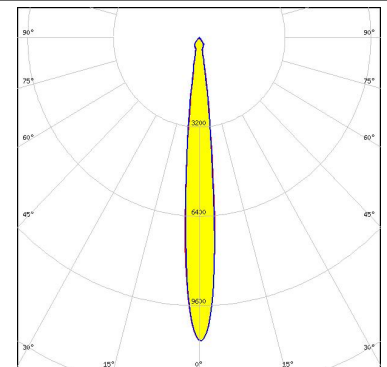
LED CL-L340  
FWHM 17.0°  
Efficiency 88 %  
Peak intensity cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C11995\_LENINA-STD-BASE-CL340

#### CITIZEN

LED CL-L340  
FWHM 22.0°  
Efficiency 80 %  
Peak intensity cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C11995\_LENINA-STD-BASE-CL340  
C12606\_LENINA-DL

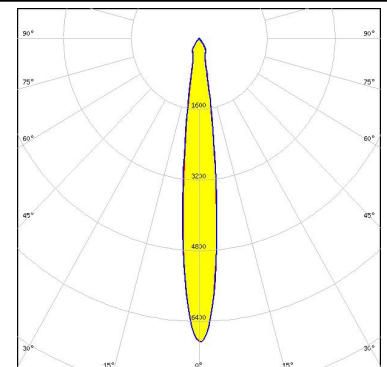
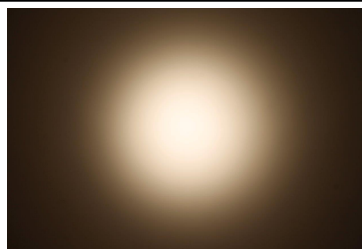
#### CITIZEN

LED CLL02x/CLU02x (LES10)  
FWHM 11.0°  
Efficiency 91 %  
Peak intensity 10.900 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13868\_LENINA-STD-BASE-VERO13-18  
Bender Wirth: 434 Typ L1



#### CITIZEN

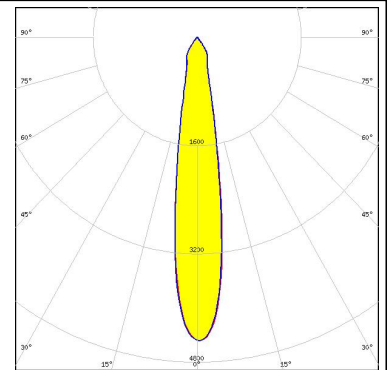
LED CLL02x/CLU02x (LES10)  
FWHM 13.0°  
Efficiency 86 %  
Peak intensity 6.900 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13868\_LENINA-STD-BASE-VERO13-18  
C12606\_LENINA-DL  
Bender Wirth: 434 Typ L1



#### PHOTOMETRIC DATA (MEASURED):

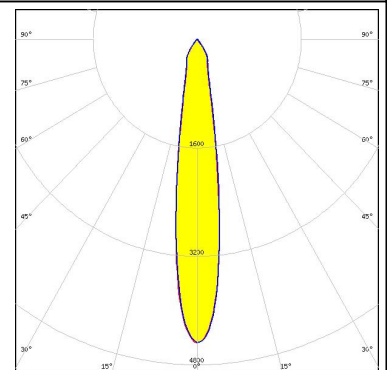
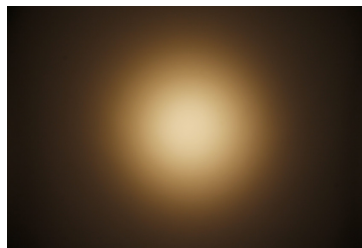
#### CITIZEN

LED CLL03x/CLU03x  
 FWHM 17.0°  
 Efficiency 87 %  
 Peak intensity 4.500 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



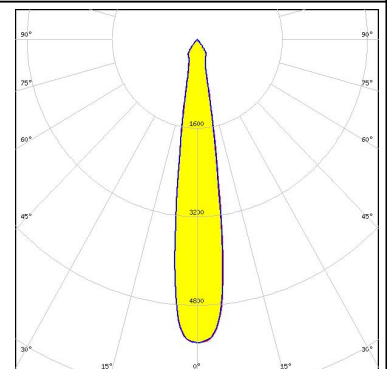
#### CITIZEN

LED CLL03x/CLU03x  
 FWHM 17.0°  
 Efficiency 87 %  
 Peak intensity 4.500 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12691\_LENINA-STD-BASE-CLL030  
 C12606\_LENINA-DL



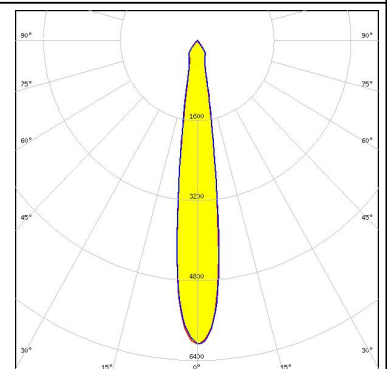
#### CITIZEN

LED CLL03x/CLU03x  
 FWHM 17.0°  
 Efficiency 91 %  
 Peak intensity 5.500 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13868\_LENINA-STD-BASE-VERO13-18  
 Bender Wirth: 433 Typ L1



#### CITIZEN

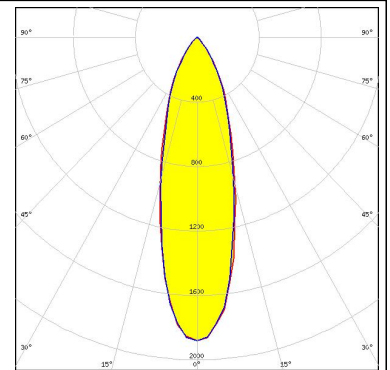
LED CLL03x/CLU03x  
 FWHM 15.0°  
 Efficiency 91 %  
 Peak intensity 6.100 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12691\_LENINA-STD-BASE-CLL030



### PHOTOMETRIC DATA (MEASURED):

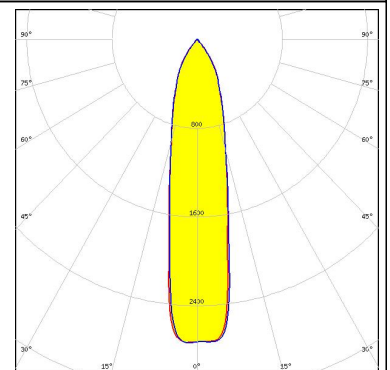
#### CITIZEN

LED CLL04x/CLU04x  
FWHM 30.0°  
Efficiency 78 %  
Peak intensity 1.900 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C12692\_LENINA-STD-BASE-CLL040  
C12606\_LENINA-DL



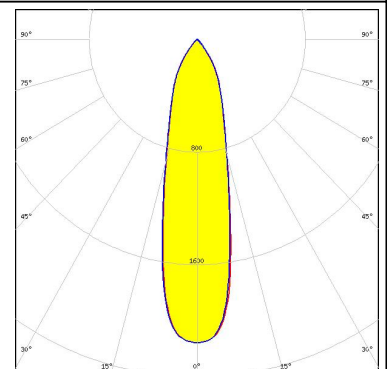
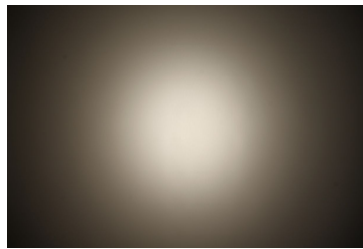
#### CITIZEN

LED CLL04x/CLU04x  
FWHM 23.0°  
Efficiency 90 %  
Peak intensity 2.700 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
IDEAL: 50-2204CT + 50-2100LN



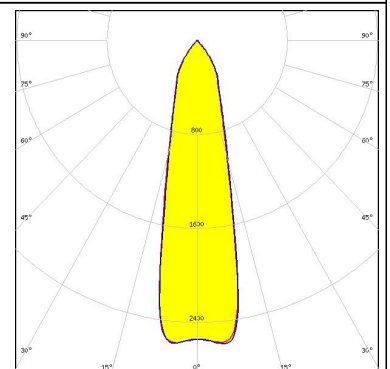
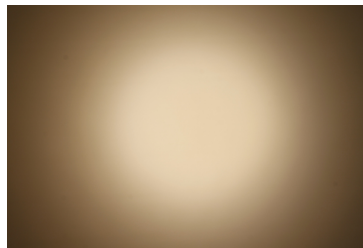
#### CITIZEN

LED CLL04x/CLU04x  
FWHM 26.0°  
Efficiency 79 %  
Peak intensity 2.200 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C12606\_LENINA-DL  
A.A.G. STUCCHI: 8102/G2 + S-8000/12



#### CITIZEN

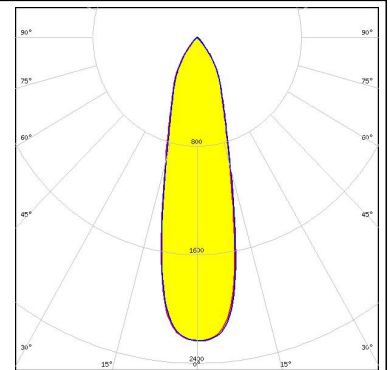
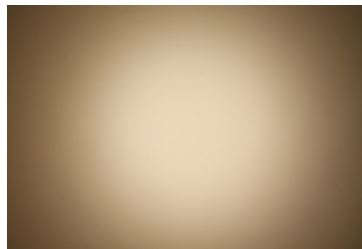
LED CLL04x/CLU04x  
FWHM 26.0°  
Efficiency 91 %  
Peak intensity 2.600 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13867\_LENINA-STD-BASE-VERO29  
Bender Wirth: 431 Typ L3



### PHOTOMETRIC DATA (MEASURED):

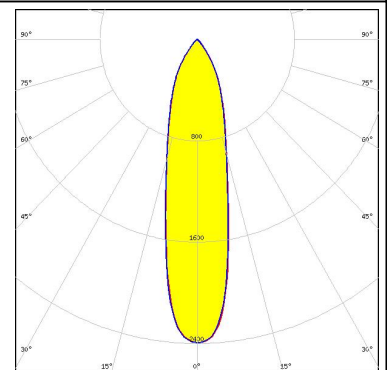
#### CITIZEN

LED CLL04x/CLU04x  
 FWHM 27.0°  
 Efficiency 86 %  
 Peak intensity 2.200 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13867\_LENINA-STD-BASE-VERO29  
 C12606\_LENINA-DL  
 Bender Wirth: 431 Typ L3



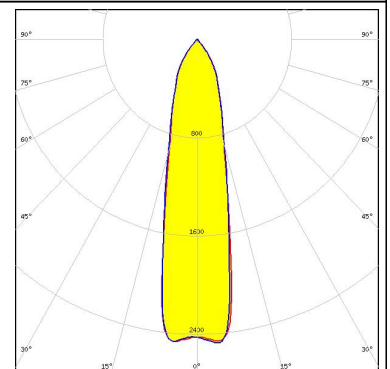
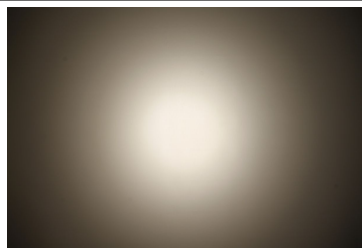
#### CITIZEN

LED CLL04x/CLU04x  
 FWHM 25.0°  
 Efficiency 87 %  
 Peak intensity 2.400 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12606\_LENINA-DL  
 IDEAL: 50-2204CT + 50-2100LN



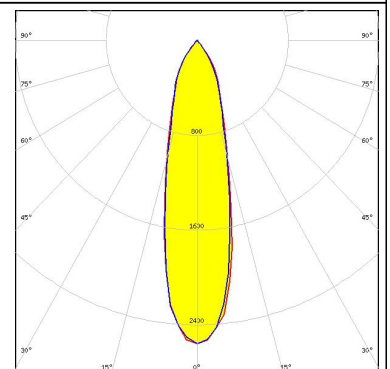
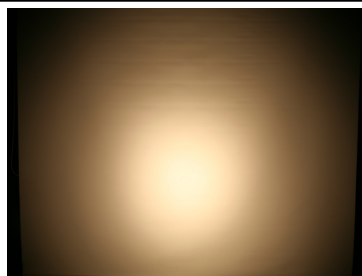
#### CITIZEN

LED CLL04x/CLU04x  
 FWHM 24.0°  
 Efficiency 83 %  
 Peak intensity 2.500 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 26.0°  
 Efficiency 86 %  
 Peak intensity 2.600 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12692\_LENINA-STD-BASE-CLL040

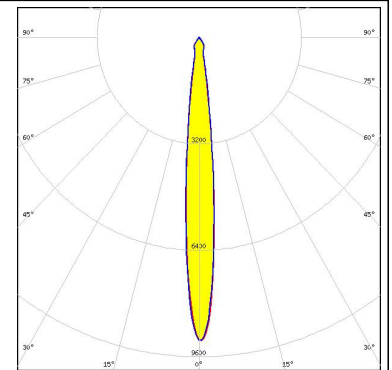




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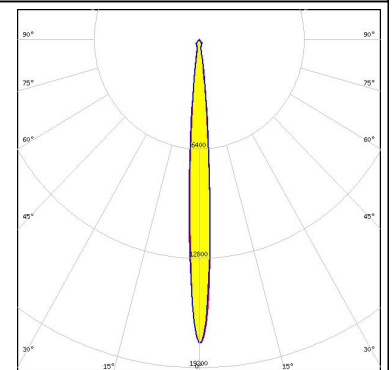
#### CITIZEN

LED CLU700/701  
 FWHM 11.0°  
 Efficiency 86 %  
 Peak intensity 9.100 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



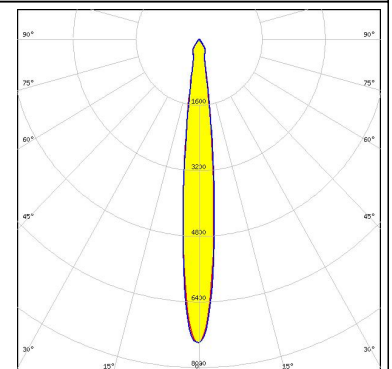
#### CITIZEN

LED CLU700/701  
 FWHM 8.0°  
 Efficiency 91 %  
 Peak intensity 17.800 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13868\_LENINA-STD-BASE-VERO13-18  
 Bender Wirth: 434 Typ L1



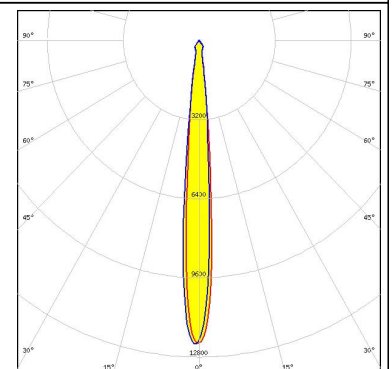
#### CITIZEN

LED CLU710/711  
 FWHM 12.0°  
 Efficiency 89 %  
 Peak intensity 7.400 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12691\_LENINA-STD-BASE-CLL030  
 C12606\_LENINA-DL



#### CITIZEN

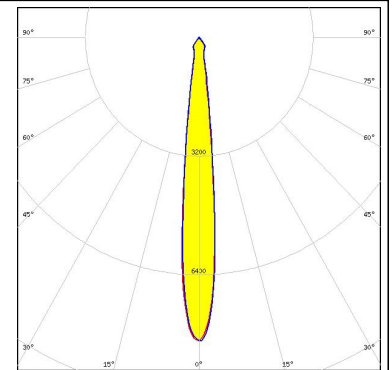
LED CLU710/711  
 FWHM 10.0°  
 Efficiency 94 %  
 Peak intensity 12.300 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12691\_LENINA-STD-BASE-CLL030



#### PHOTOMETRIC DATA (MEASURED):

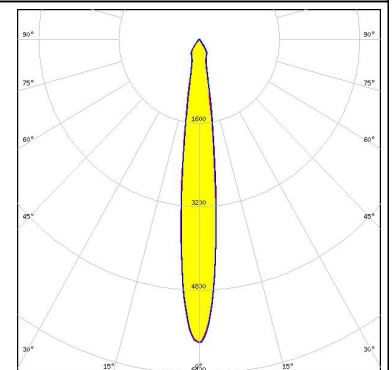
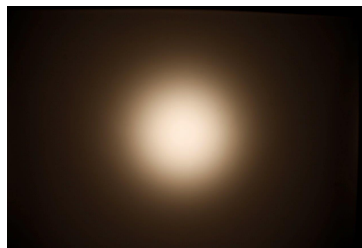
#### CITIZEN

LED CLU720/721  
 FWHM 12.0°  
 Efficiency 89 %  
 Peak intensity 8.200 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12691\_LENINA-STD-BASE-CLL030



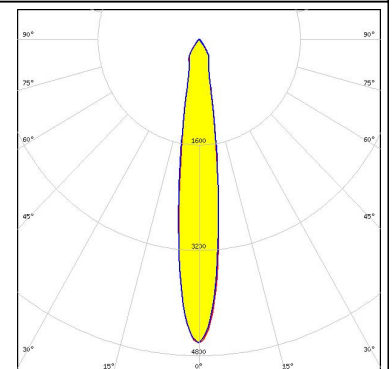
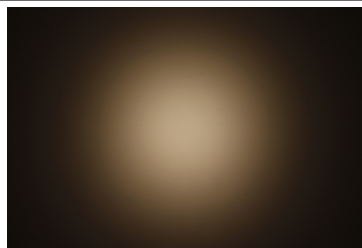
#### CITIZEN

LED CLU720/721  
 FWHM 13.0°  
 Efficiency 84 %  
 Peak intensity 5.800 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12691\_LENINA-STD-BASE-CLL030  
 C12606\_LENINA-DL



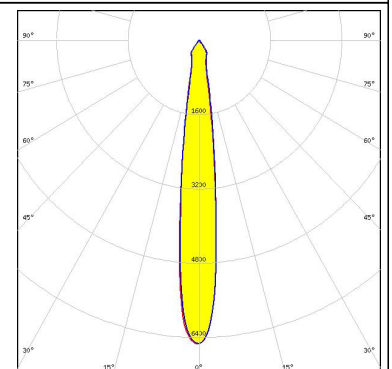
#### CITIZEN

LED CLU730/731  
 FWHM 15.0°  
 Efficiency 85 %  
 Peak intensity 4.600 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12692\_LENINA-STD-BASE-CLL040  
 C12606\_LENINA-DL



#### CITIZEN

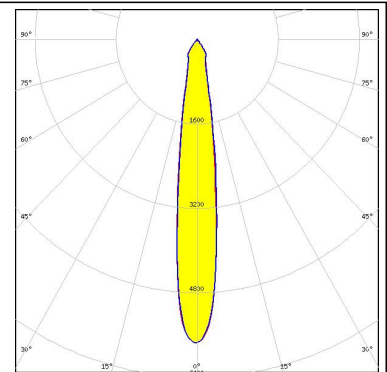
LED CLU730/731  
 FWHM 14.0°  
 Efficiency 94 %  
 Peak intensity 6.500 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12692\_LENINA-STD-BASE-CLL040



#### PHOTOMETRIC DATA (MEASURED):

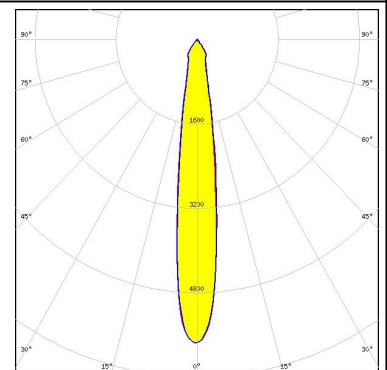
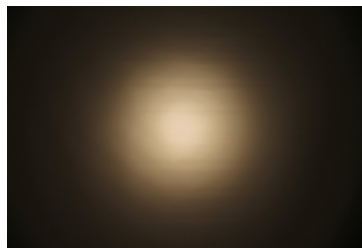
**CREE** 

LED CMA1840  
 FWHM 15.0°  
 Efficiency 92 %  
 Peak intensity 5.700 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14146\_LENINA-STD-BASE-CXA18



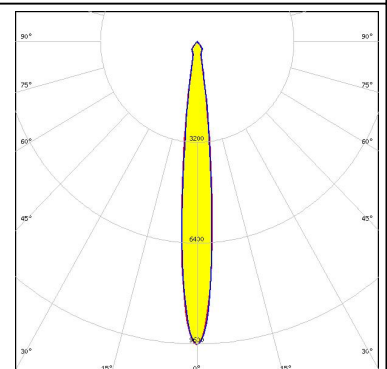
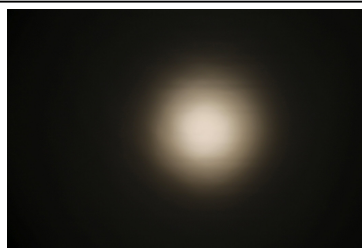
**CREE** 

LED CMA1840  
 FWHM 25.0°  
 Efficiency 92 %  
 Peak intensity 2.700 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14146\_LENINA-STD-BASE-CXA18



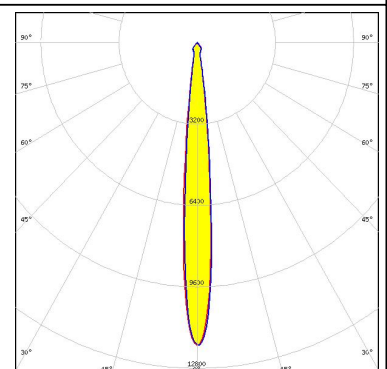
**CREE** 

LED CMT14xx  
 FWHM 11.0°  
 Efficiency 92 %  
 Peak intensity 9.700 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13868\_LENINA-STD-BASE-VERO13-18  
 Bender Wirth: 434 Typ L1



**CREE** 

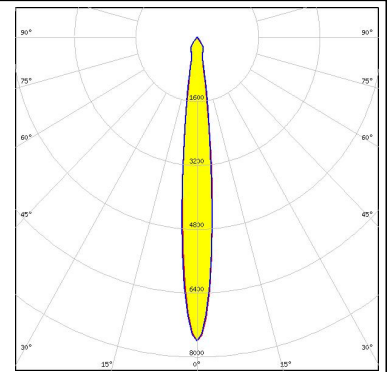
LED CXA/B 15xx  
 FWHM 10.0°  
 Efficiency 91 %  
 Peak intensity 11.900 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13868\_LENINA-STD-BASE-VERO13-18  
 Bender Wirth: 441 Typ L1



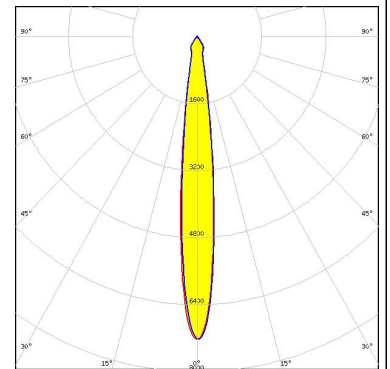
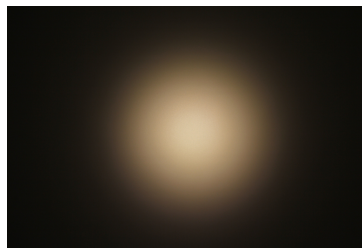
#### PHOTOMETRIC DATA (MEASURED):



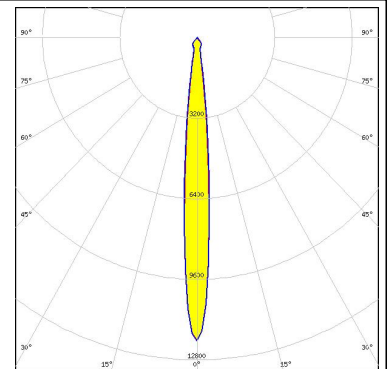
LED CXA/B 15xx  
 FWHM 12.0°  
 Efficiency 86 %  
 Peak intensity 7.600 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13186\_LENINA-STD-BASE-CXA15  
 C12606\_LENINA-DL



LED CXA/B 15xx  
 FWHM 13.0°  
 Efficiency 87 %  
 Peak intensity 7.200 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13868\_LENINA-STD-BASE-VERO13-18  
 C12606\_LENINA-DL  
 Bender Wirth: 441 Typ L1



LED CXA/B 15xx  
 FWHM 10.0°  
 Efficiency 91 %  
 Peak intensity 12.050 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13186\_LENINA-STD-BASE-CXA15



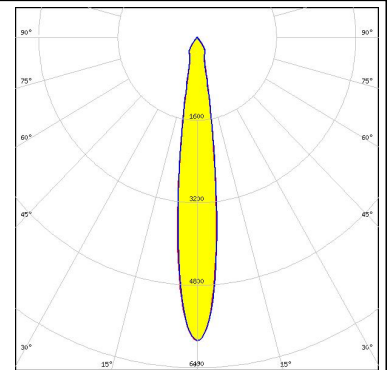
LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
 FWHM 12.0°  
 Efficiency 92 %  
 Peak intensity 9.600 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14146\_LENINA-STD-BASE-CXA18



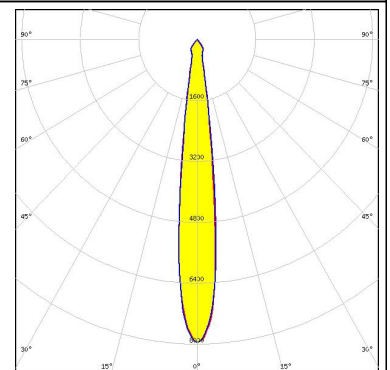
### PHOTOMETRIC DATA (MEASURED):



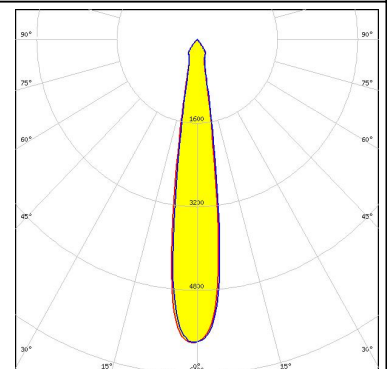
LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
 FWHM 15.0°  
 Efficiency 88 %  
 Peak intensity 5.900 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13868\_LENINA-STD-BASE-VERO13-18  
 C12606\_LENINA-DL  
 Bender Wirth: 437 Typ L1



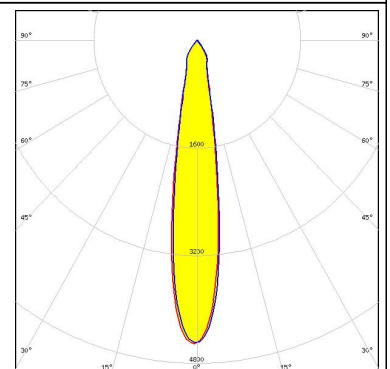
LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
 FWHM 13.0°  
 Efficiency 92 %  
 Peak intensity 8.000 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13868\_LENINA-STD-BASE-VERO13-18  
 Bender Wirth: 437 Typ L1



LED CXA/B 1830  
 FWHM 16.0°  
 Efficiency 93 %  
 Peak intensity 5.800 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13868\_LENINA-STD-BASE-VERO13-18  
 Bender Wirth: 437 Typ L1



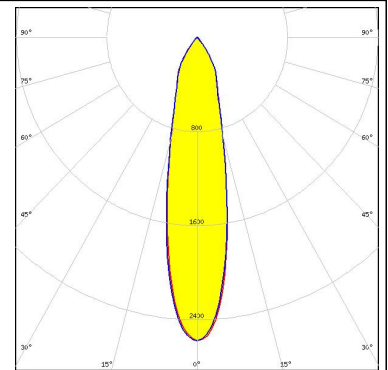
LED CXA/B 1830  
 FWHM 18.0°  
 Efficiency 88 %  
 Peak intensity 4.500 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13868\_LENINA-STD-BASE-VERO13-18  
 C12606\_LENINA-DL  
 Bender Wirth: 437 Typ L1



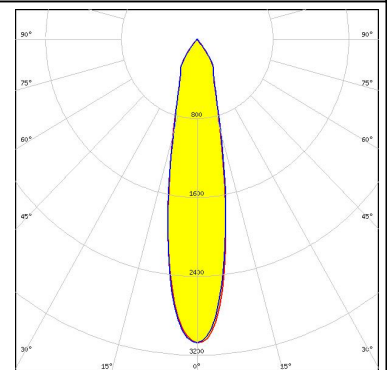
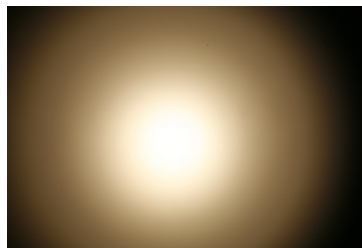
#### PHOTOMETRIC DATA (MEASURED):



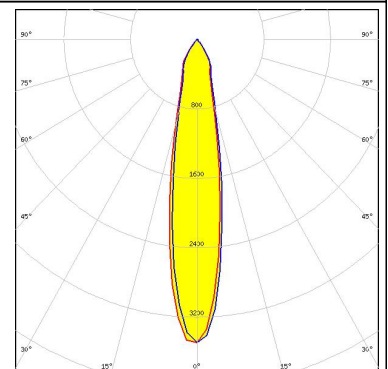
LED CXA/B 25xx  
 FWHM 23.0°  
 Efficiency 78 %  
 Peak intensity 2.700 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13324\_LENINA-STD-BASE-CXA25  
 C12606\_LENINA-DL



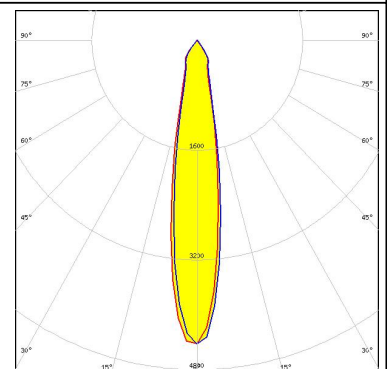
LED CXA/B 25xx  
 FWHM 22.0°  
 Efficiency 86 %  
 Peak intensity 3.200 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13324\_LENINA-STD-BASE-CXA25



LED CXA2011  
 FWHM 20.0°  
 Efficiency 80 %  
 Peak intensity 3.500 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12105\_LENINA-STD-BASE-CXA20  
 C12606\_LENINA-DL



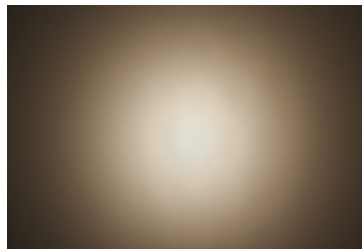
LED CXA2011  
 FWHM 16.0°  
 Efficiency 88 %  
 Peak intensity 4.400 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12105\_LENINA-STD-BASE-CXA20



#### PHOTOMETRIC DATA (MEASURED):

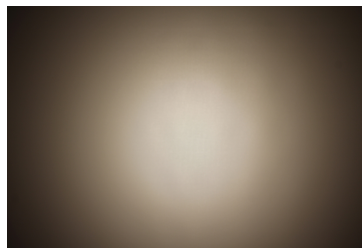
#### EVERLIGHT

LED CHI3030 19W  
 FWHM 25.0°  
 Efficiency 91 %  
 Peak intensity 2.600 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13867\_LENINA-STD-BASE-VERO29  
 C12606\_LENINA-DL  
 Bender Wirth: 468 Typ L3



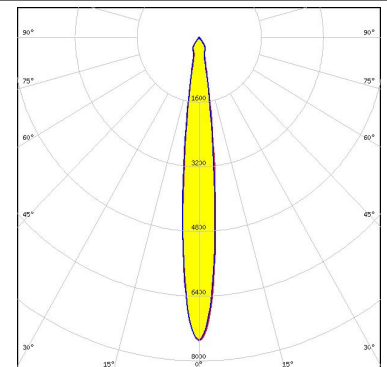
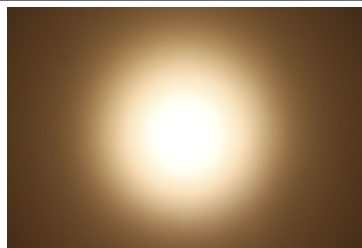
#### EVERLIGHT

LED CHI3030 29W  
 FWHM 33.0°  
 Efficiency 87 %  
 Peak intensity 1.700 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13867\_LENINA-STD-BASE-VERO29  
 C12606\_LENINA-DL  
 Bender Wirth: 468 Typ L3



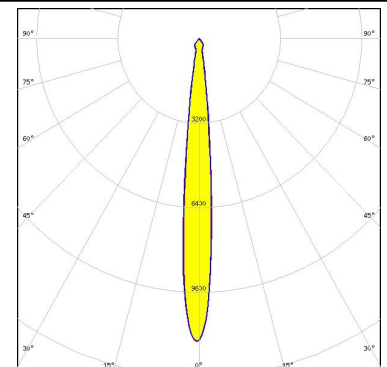
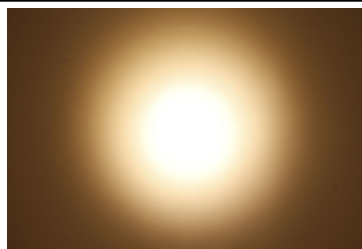
#### LUMILEDS

LED LUXEON CoB 1202/1203  
 FWHM 13.0°  
 Efficiency 88 %  
 Peak intensity 7.500 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



#### LUMILEDS

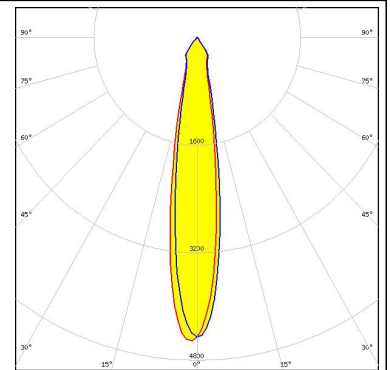
LED LUXEON CoB 1202/1203  
 FWHM 11.0°  
 Efficiency 92 %  
 Peak intensity 11.500 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13868\_LENINA-STD-BASE-VERO13-18  
 Bender Wirth: 438 Typ L1



#### PHOTOMETRIC DATA (MEASURED):

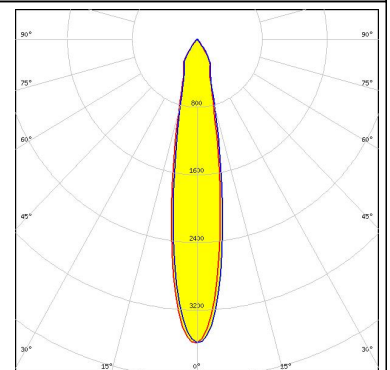
#### LUMILEDS

LED LUXEON CoB 1204/1205  
 FWHM 18.0°  
 Efficiency 88 %  
 Peak intensity 4.500 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12292\_LENINA-STD-BASE-MEZ



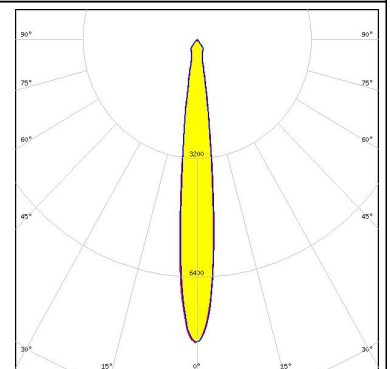
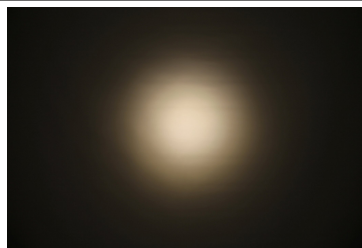
#### LUMILEDS

LED LUXEON CoB 1204/1205  
 FWHM 19.0°  
 Efficiency 84 %  
 Peak intensity 3.600 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12292\_LENINA-STD-BASE-MEZ  
 C12606\_LENINA-DL



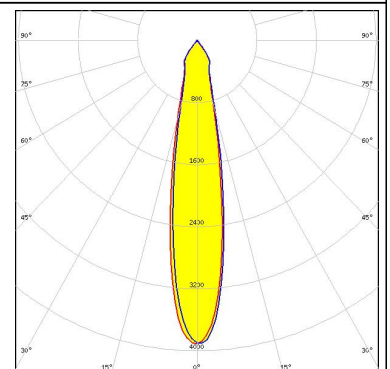
#### LUMILEDS

LED LUXEON CoB 1205HD  
 FWHM 12.0°  
 Efficiency 92 %  
 Peak intensity 8.200 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C11981\_LENINA-STD-BASE-COB-L110



#### LUMILEDS

LED LUXEON CoB 1208  
 FWHM 20.0°  
 Efficiency 89 %  
 Peak intensity 3.900 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12292\_LENINA-STD-BASE-MEZ

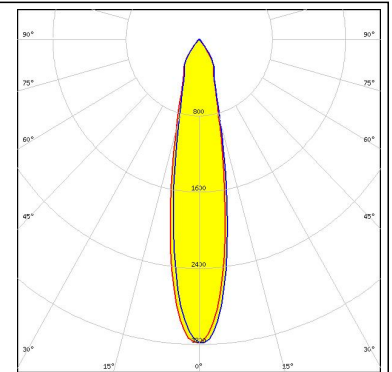




#### PHOTOMETRIC DATA (MEASURED):

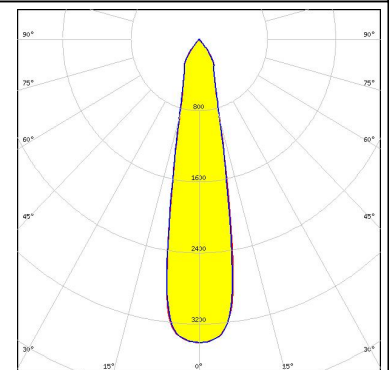
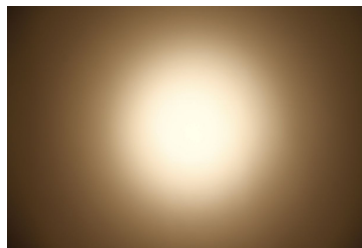
#### LUMILEDS

LED LUXEON CoB 1208  
 FWHM 21.0°  
 Efficiency 85 %  
 Peak intensity 3.200 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12292\_LENINA-STD-BASE-MEZ  
 C12606\_LENINA-DL



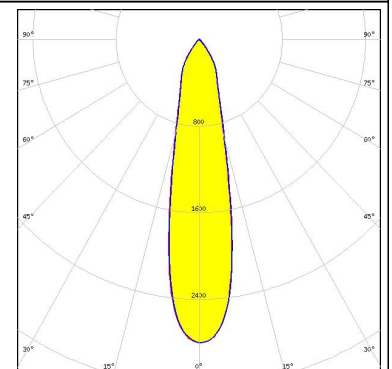
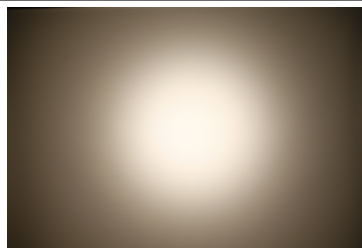
#### LUMILEDS

LED LUXEON CoB 1211  
 FWHM 22.0°  
 Efficiency 92 %  
 Peak intensity 3.400 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13867\_LENINA-STD-BASE-VERO29  
 Bender Wirth: 431 Typ L3



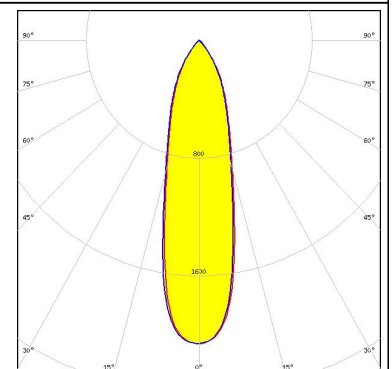
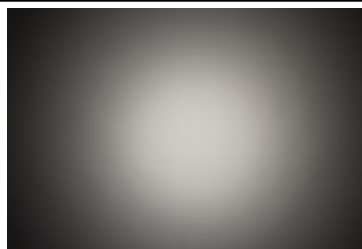
#### LUMILEDS

LED LUXEON CoB 1211  
 FWHM 23.0°  
 Efficiency 86 %  
 Peak intensity 2.800 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13867\_LENINA-STD-BASE-VERO29  
 C12606\_LENINA-DL  
 Bender Wirth: 431 Typ L3


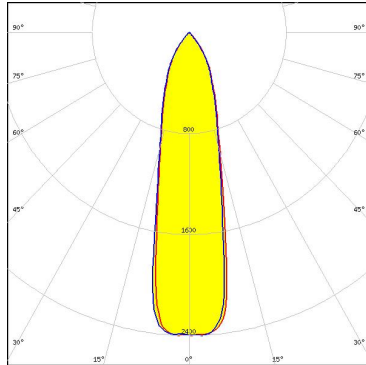
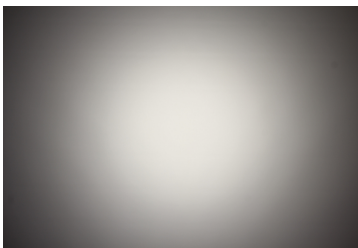
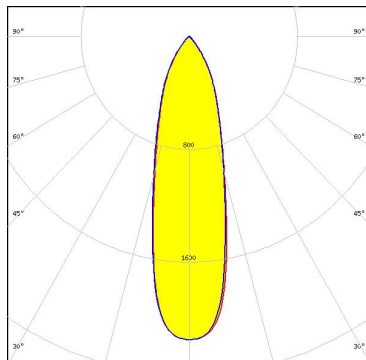

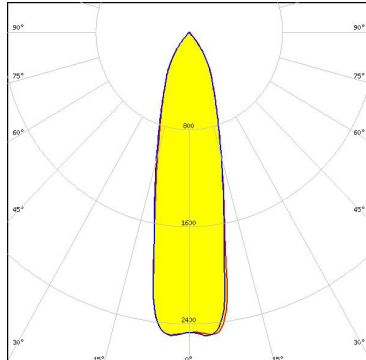

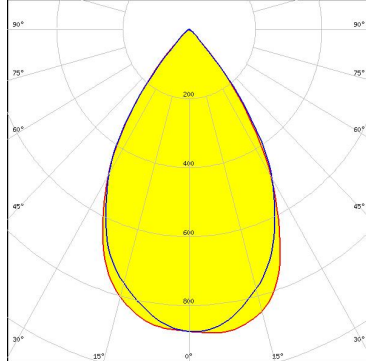


#### LUMILEDS

LED LUXEON CoB 1216/1812  
 FWHM 27.0°  
 Efficiency 81 %  
 Peak intensity 2.060 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12606\_LENINA-DL  
 A.A.G. STUCCHI: 8102/G2 + S-8000/12



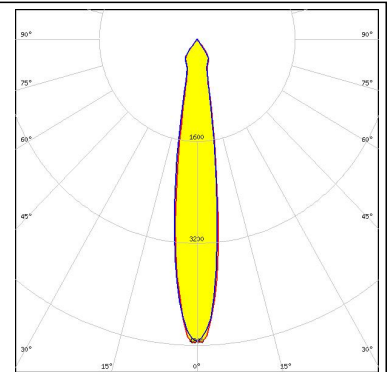
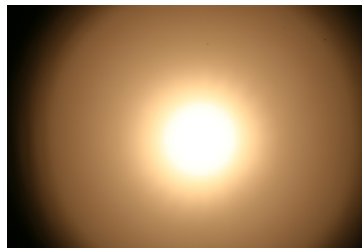
#### PHOTOMETRIC DATA (MEASURED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1216/1812            FWHM 25.0°            Efficiency 85 %            Peak intensity 2.410 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 28.0°            Efficiency 87 %            Peak intensity 2.200 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C12692_LENINA-STD-BASE-CLL040            C12606_LENINA-DL</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1216/1812            FWHM 27.0°            Efficiency 91 %            Peak intensity 2.500 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 K12            FWHM 17.5°            Efficiency 83 %            Peak intensity 3.700 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C12924_LENINA-STD-BASE-LUXEON-K            C12606_LENINA-DL</p>		

#### PHOTOMETRIC DATA (MEASURED):

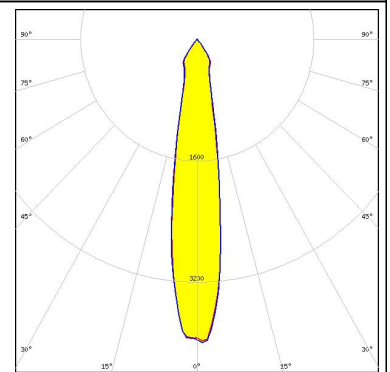
#### LUMILEDS

LED LUXEON K12  
 FWHM 16.0°  
 Efficiency 89 %  
 Peak intensity 4.800 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12924\_LENASTD-BASE-LUXEON-K



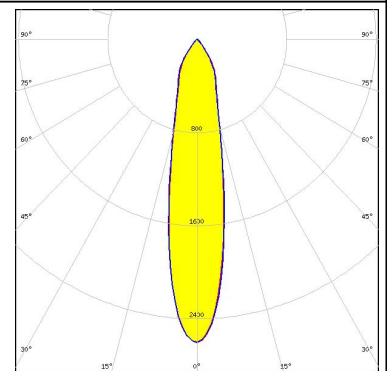
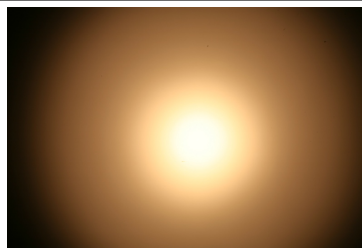
#### LUMILEDS

LED LUXEON K16  
 FWHM 18.0°  
 Efficiency 87 %  
 Peak intensity 4.000 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12924\_LENASTD-BASE-LUXEON-K



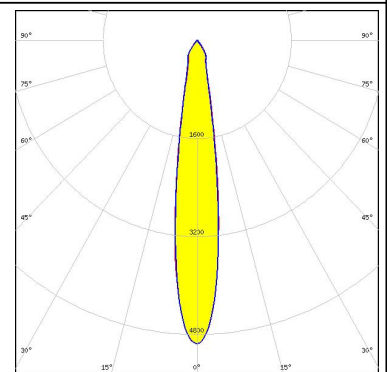
#### LUMILEDS

LED LUXEON K16  
 FWHM 22.0°  
 Efficiency 80 %  
 Peak intensity 2.600 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12924\_LENASTD-BASE-LUXEON-K  
 C12606\_LENINA-DL


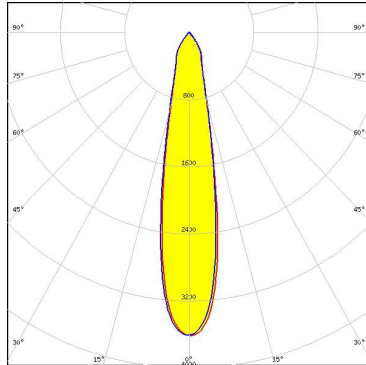

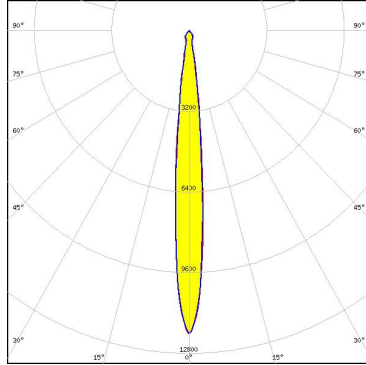

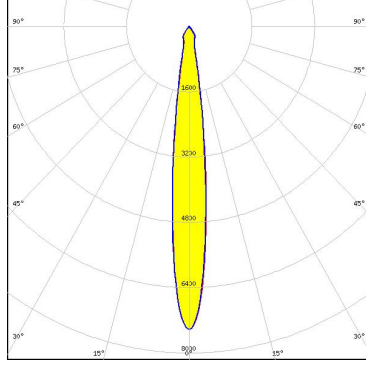

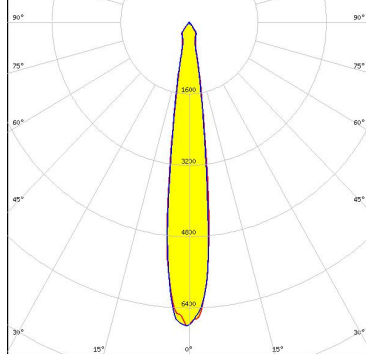


#### LUMINUS

LED CDM-14 (Dim-To-Warm)  
 FWHM 16.0°  
 Efficiency 88 %  
 Peak intensity 4.900 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13868\_LENASTD-BASE-VERO13-18  
 C12606\_LENINA-DL  
 Bender Wirth: 491 Typ L2



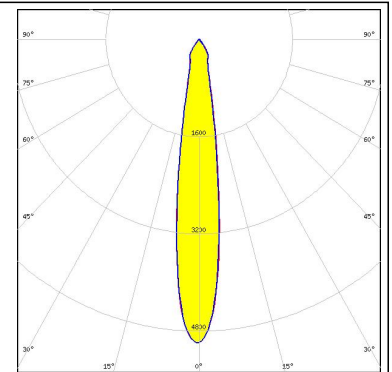
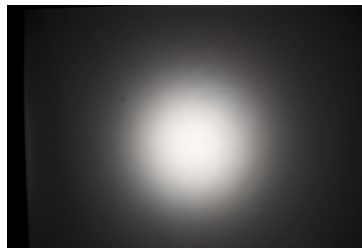
#### PHOTOMETRIC DATA (MEASURED):

<p><b>LUMINUS</b></p> <p>LED CDM-18 (Dim-To-Warm)            FWHM 21.0°            Efficiency 88 %            Peak intensity 3.600 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-9 (Dim-To-Warm)            FWHM 11.0°            Efficiency 92 %            Peak intensity 12.000 cd/lm            LEDs/each optic 1            Light colour White</p> <p>Required components:            C13868_LENINA-STD-BASE-VERO13-18            Bender Wirth: 490 Typ L1</p>		
<p><b>LUMINUS</b></p> <p>LED CDM-9 (Dim-To-Warm)            FWHM 13.0°            Efficiency 87 %            Peak intensity 7.400 cd/lm            LEDs/each optic 1            Light colour White</p> <p>Required components:            C13868_LENINA-STD-BASE-VERO13-18            C12606_LENINA-DL            Bender Wirth: 490 Typ L1</p>		
<p><b>LUMINUS</b></p> <p>LED CTM-14 (Tunable White)            FWHM 15.0°            Efficiency 92 %            Peak intensity 6.800 cd/lm            LEDs/each optic 1            Light colour White</p> <p>Required components:            C13867_LENINA-STD-BASE-VERO29            Bender Wirth: 442 Typ L3</p>		

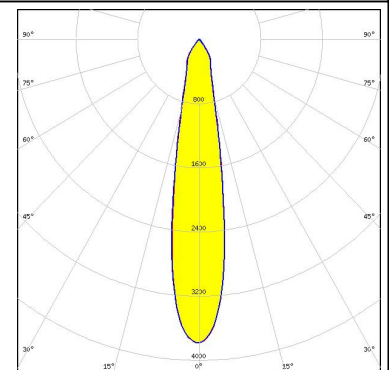
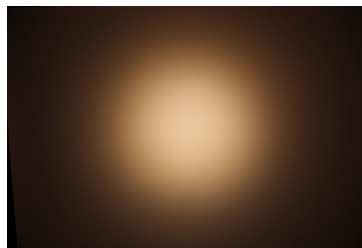
#### PHOTOMETRIC DATA (MEASURED):



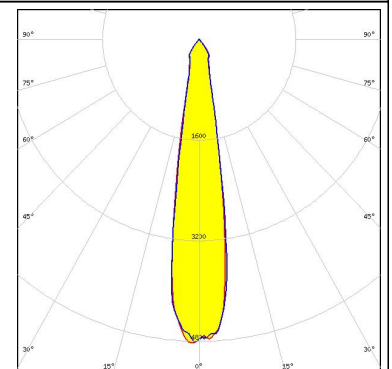
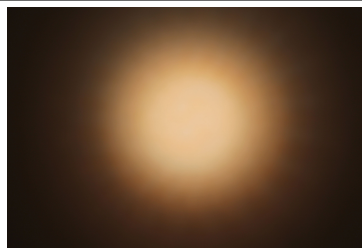
LED CTM-14 (Tunable White)  
 FWHM 16.0°  
 Efficiency 87 %  
 Peak intensity 5.000 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13867\_LENINA-STD-BASE-VERO29  
 C12606\_LENINA-DL  
 Bender Wirth: 442 Typ L3



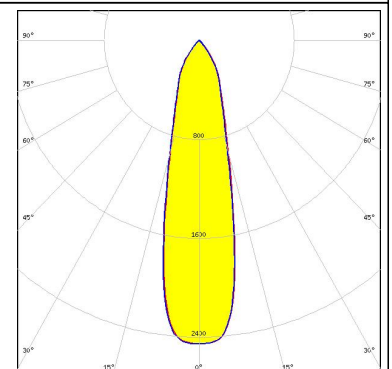
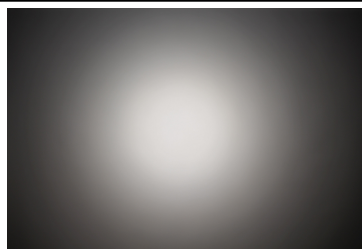
LED CTM-18 (Tunable White)  
 FWHM 19.0°  
 Efficiency 87 %  
 Peak intensity 3.800 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13867\_LENINA-STD-BASE-VERO29  
 C12606\_LENINA-DL  
 Bender Wirth: 442 Typ L3



LED CTM-18 (Tunable White)  
 FWHM 18.0°  
 Efficiency 92 %  
 Peak intensity 4.800 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 26.0°  
 Efficiency 87 %  
 Peak intensity 2.400 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13867\_LENINA-STD-BASE-VERO29  
 C12606\_LENINA-DL  
 Bender Wirth: 494 Typ L3

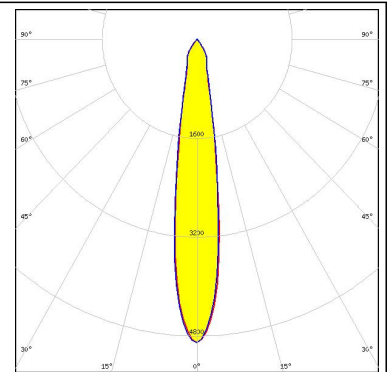


### PHOTOMETRIC DATA (MEASURED):



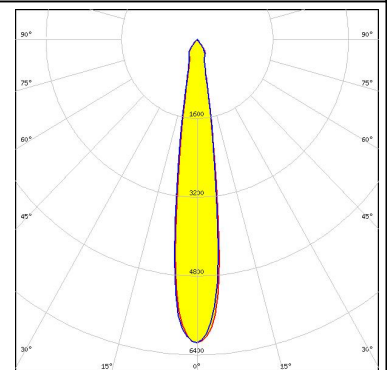
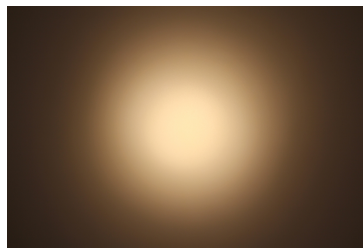
LED CXM-14  
FWHM 17.0°  
Efficiency 88 %  
Peak intensity 4.900 cd/lm  
LEDs/each optic 1  
Light colour White

Required components:  
C12691\_LENINA-STD-BASE-CLL030  
C12606\_LENINA-DL



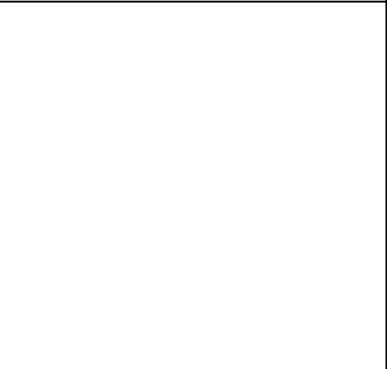
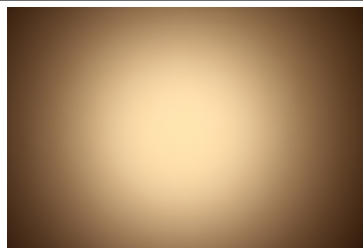
LED CXM-14  
FWHM 16.0°  
Efficiency 93 %  
Peak intensity 6.200 cd/lm  
LEDs/each optic 1  
Light colour White

Required components:  
C12691\_LENINA-STD-BASE-CLL030



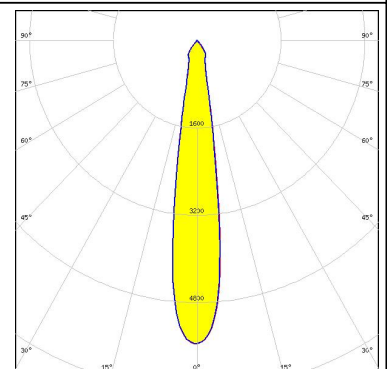
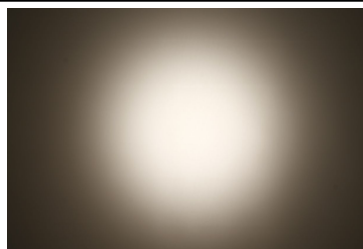
LED CXM-22  
FWHM 28.0°  
Efficiency 88 %  
Peak intensity 2.300 cd/lm  
LEDs/each optic 1  
Light colour White

Required components:  
C12692\_LENINA-STD-BASE-CLL040  
C12606\_LENINA-DL



LED COB J-Type  
FWHM 17.0°  
Efficiency 92 %  
Peak intensity 5.600 cd/lm  
LEDs/each optic 1  
Light colour White

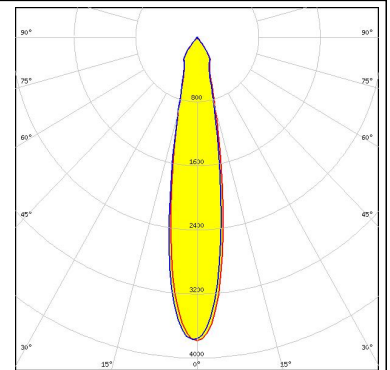
Required components:  
C13868\_LENINA-STD-BASE-VERO13-18  
Bender Wirth: 463 Typ L2



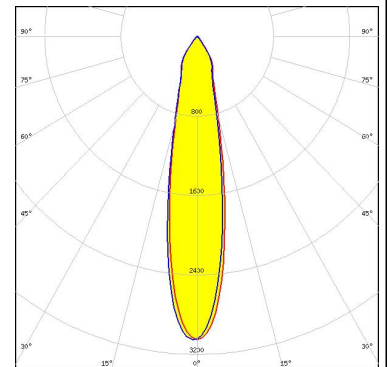
#### PHOTOMETRIC DATA (MEASURED):



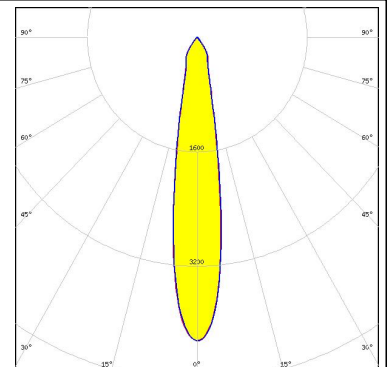
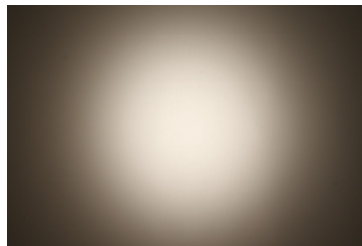
LED COB J-Type  
 FWHM 20.0°  
 Efficiency 88 %  
 Peak intensity 3.790 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12292\_LENINA-STD-BASE-MEZ



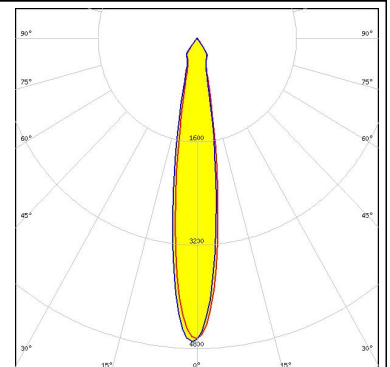
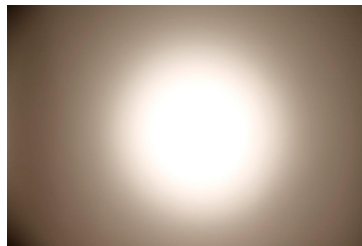
LED COB J-Type  
 FWHM 21.0°  
 Efficiency 83 %  
 Peak intensity 3.060 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12292\_LENINA-STD-BASE-MEZ  
 C12606\_LENINA-DL



LED COB J-Type  
 FWHM 18.0°  
 Efficiency 88 %  
 Peak intensity 4.200 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13868\_LENINA-STD-BASE-VERO13-18  
 C12606\_LENINA-DL  
 Bender Wirth: 463 Typ L2



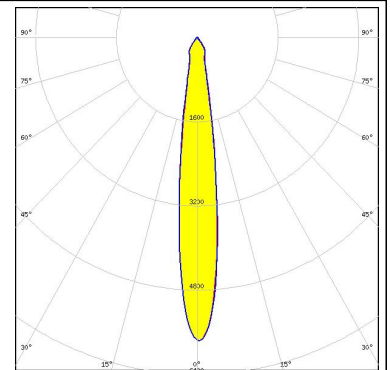
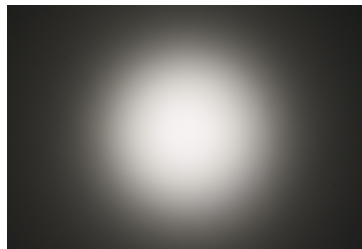
LED COB L-Type (LES 11)  
 FWHM 17.0°  
 Efficiency 85 %  
 Peak intensity 4.700 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C11981\_LENINA-STD-BASE-COB-L110



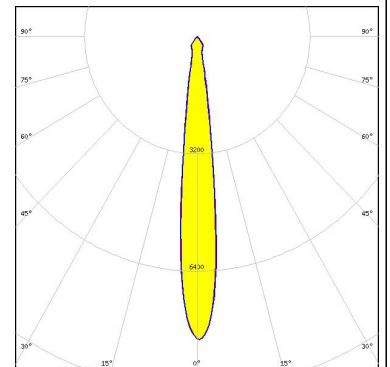
#### PHOTOMETRIC DATA (MEASURED):



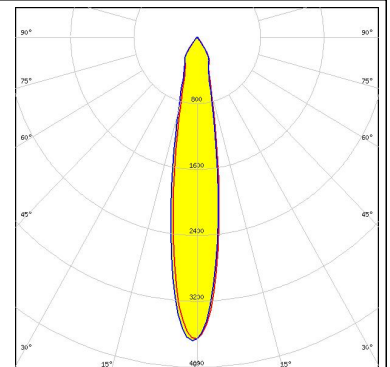
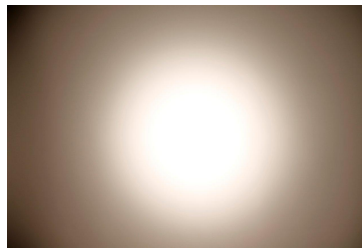
LED COB L-Type (LES 11)  
 FWHM 15.0°  
 Efficiency 87 %  
 Peak intensity 5.800 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13868\_LENINA-STD-BASE-VERO13-18  
 C12606\_LENINA-DL  
 Bender Wirth: 438 Typ L1



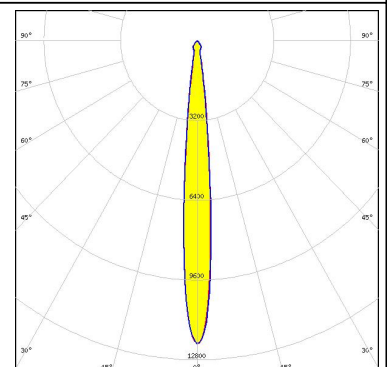
LED COB L-Type (LES 11)  
 FWHM 13.0°  
 Efficiency 91 %  
 Peak intensity 8.300 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13868\_LENINA-STD-BASE-VERO13-18  
 Bender Wirth: 438 Typ L1



LED COB L-Type (LES 11)  
 FWHM 18.0°  
 Efficiency 81 %  
 Peak intensity 3.700 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C11981\_LENINA-STD-BASE-COB-L110  
 C12606\_LENINA-DL


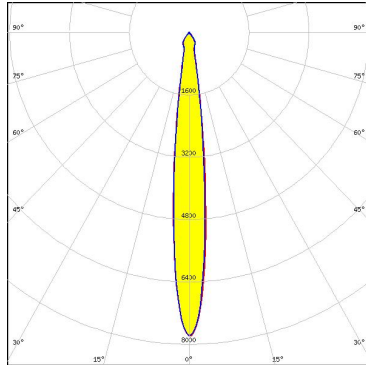

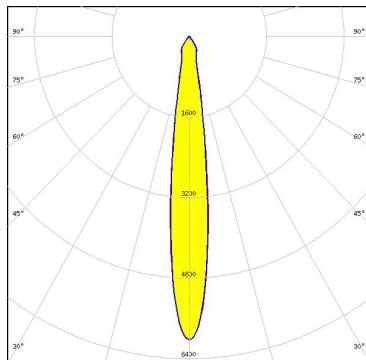

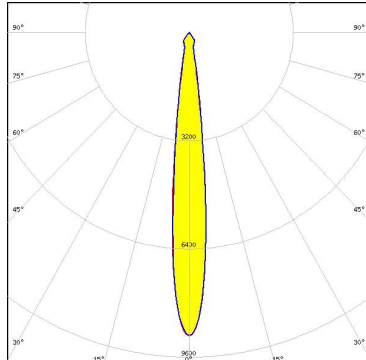
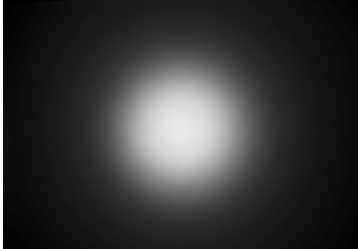
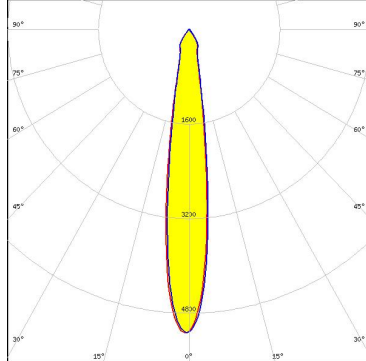


LED COB L-Type (LES 9)  
 FWHM 10.0°  
 Efficiency 94 %  
 Peak intensity 12.100 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13868\_LENINA-STD-BASE-VERO13-18  
 Bender Wirth: 438 Typ L1





#### PHOTOMETRIC DATA (MEASURED):

<p><b>NICHIA</b></p> <p>LED COB L-Type (LES 9)</p> <p>FWHM 12.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 7.800 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: 438 Typ L1</p>		
<p><b>NICHIA</b></p> <p>LED NVCWJ024Z-V1MT: COB J-Type Tunable White</p> <p>FWHM 14.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 6.000 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 12.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 9.000 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>  <small>Opto Semiconductors</small></p> <p>LED Soleriq S13</p> <p>FWHM 16.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 5.100 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

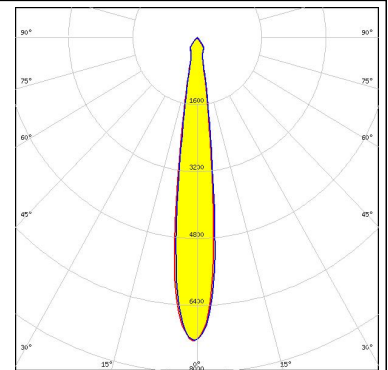
Opto Semiconductors

LED Soleriq S13  
 FWHM 14.0°  
 Efficiency 91 %  
 Peak intensity 7.200 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

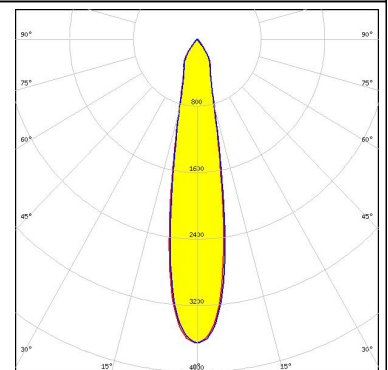
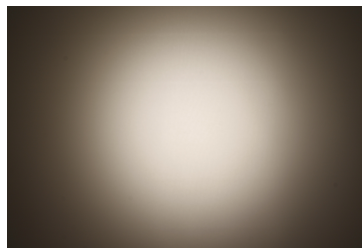
LED Soleriq S19  
 FWHM 20.0°  
 Efficiency 88 %  
 Peak intensity 3.700 cd/lm  
 LEDs/each optic 1  
 Light colour White

Required components:

C13867\_LENINA-STD-BASE-VERO29

C12606\_LENINA-DL

Bender Wirth: 462 Typ L3



#### OSRAM

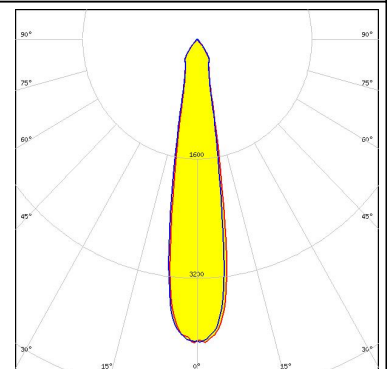
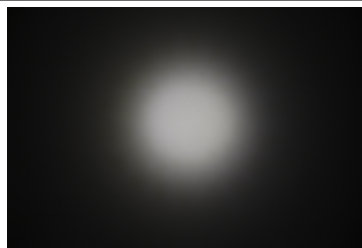
Opto Semiconductors

LED Soleriq S19  
 FWHM 19.0°  
 Efficiency 92 %  
 Peak intensity 4.100 cd/lm  
 LEDs/each optic 1  
 Light colour White

Required components:

C13867\_LENINA-STD-BASE-VERO29

Bender Wirth: 462 Typ L3

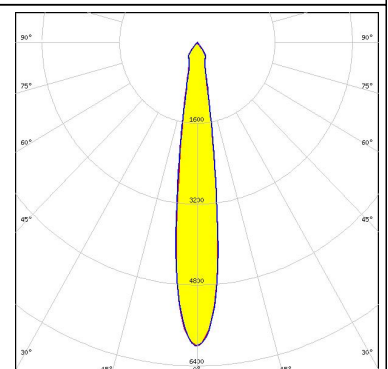
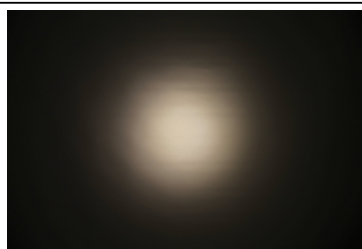


#### PHILIPS

LED Fortimo SLM L13 CoB  
 FWHM 15.0°  
 Efficiency 93 %  
 Peak intensity 6.000 cd/lm  
 LEDs/each optic 1  
 Light colour White

Required components:

C12292\_LENINA-STD-BASE-MEZ



### PHOTOMETRIC DATA (MEASURED):

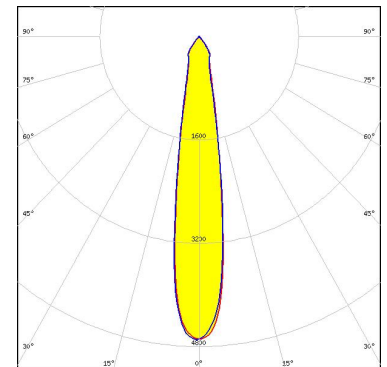
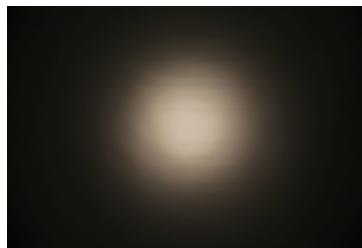
#### PHILIPS

LED Fortimo SLM L13 CoB  
FWHM 18.0°  
Efficiency 87 %  
Peak intensity 3.950 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C12292\_LENINA-STD-BASE-MEZ  
C12606\_LENINA-DL



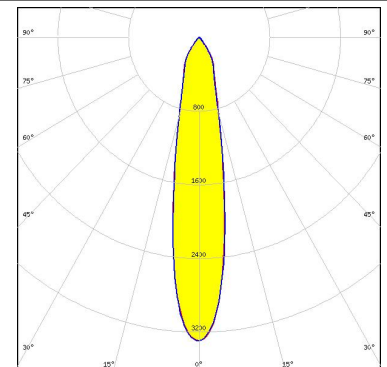
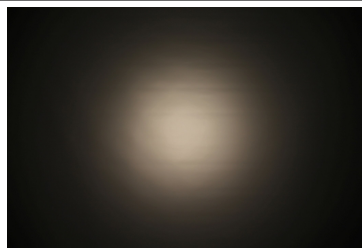
#### PHILIPS

LED Fortimo SLM L15 CoB  
FWHM 18.0°  
Efficiency 91 %  
Peak intensity 4.700 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C12292\_LENINA-STD-BASE-MEZ



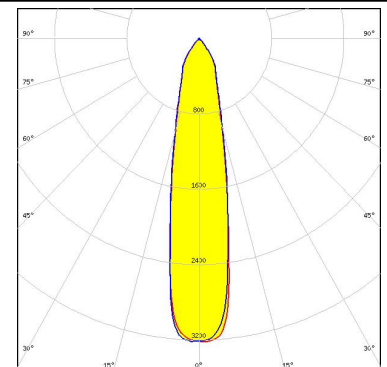
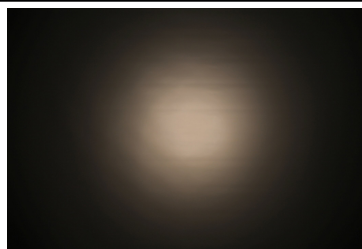
#### PHILIPS

LED Fortimo SLM L15 CoB  
FWHM 20.0°  
Efficiency 86 %  
Peak intensity 3.300 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C12292\_LENINA-STD-BASE-MEZ  
C12606\_LENINA-DL



#### PHILIPS

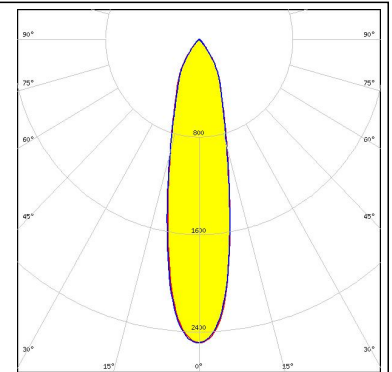
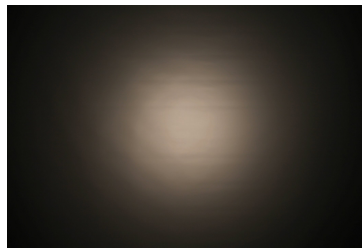
LED Fortimo SLM L19 CoB  
FWHM 22.0°  
Efficiency 91 %  
Peak intensity 3.200 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C12692\_LENINA-STD-BASE-CLL040



#### PHOTOMETRIC DATA (MEASURED):

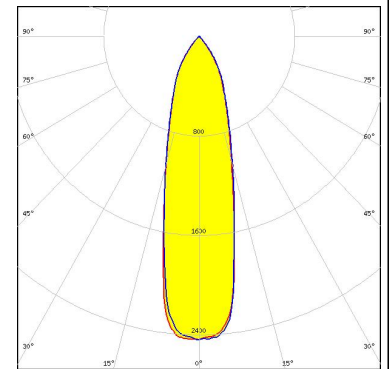
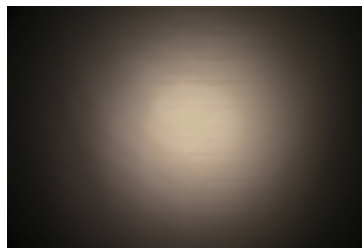
#### PHILIPS

LED Fortimo SLM L19 CoB  
 FWHM 24.0°  
 Efficiency 86 %  
 Peak intensity 2.500 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12692\_LENINA-STD-BASE-CLL040  
 C12606\_LENINA-DL



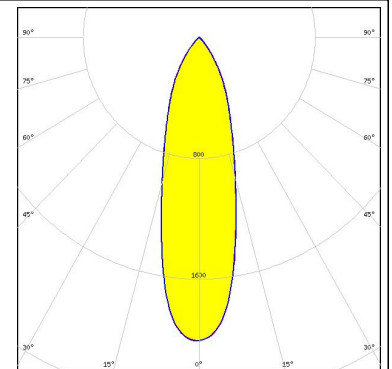
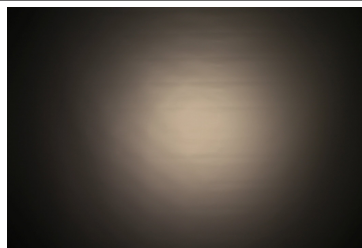
#### PHILIPS

LED Fortimo SLM L23 CoB  
 FWHM 27.0°  
 Efficiency 91 %  
 Peak intensity 2.400 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12692\_LENINA-STD-BASE-CLL040



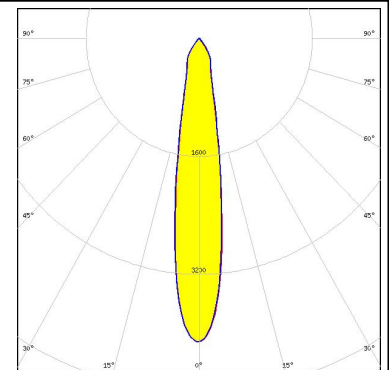
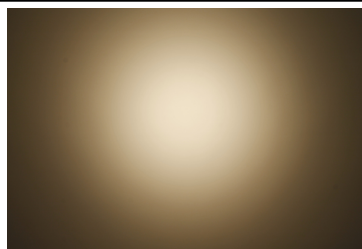
#### PHILIPS

LED Fortimo SLM L23 CoB  
 FWHM 29.0°  
 Efficiency 86 %  
 Peak intensity 2.000 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12692\_LENINA-STD-BASE-CLL040  
 C12606\_LENINA-DL



#### SAMSUNG

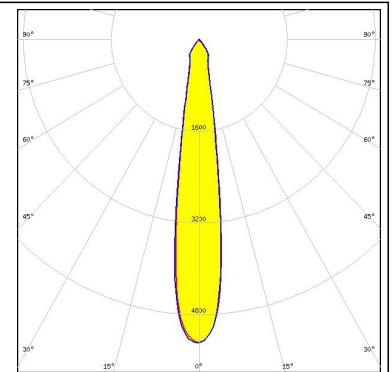
LED COB D Series LES 14.5 mm  
 FWHM 18.0°  
 Efficiency 87 %  
 Peak intensity 4.100 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12691\_LENINA-STD-BASE-CLL030  
 C12606\_LENINA-DL



#### PHOTOMETRIC DATA (MEASURED):

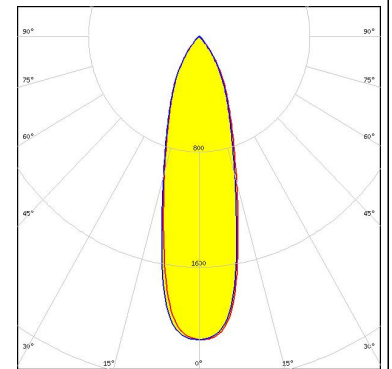
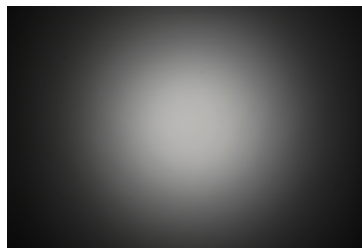
### SAMSUNG

LED COB D Series LES 14.5 mm  
 FWHM 16.0°  
 Efficiency 91 %  
 Peak intensity 5.300 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12691\_LENINA-STD-BASE-CLL030



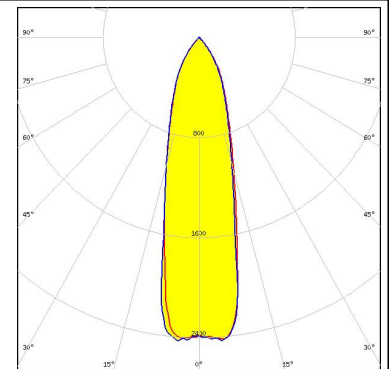
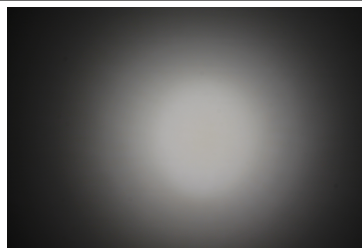
### SAMSUNG

LED COB D Series LES 22 mm  
 FWHM 29.0°  
 Efficiency 87 %  
 Peak intensity 2.100 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12692\_LENINA-STD-BASE-CLL040  
 C12606\_LENINA-DL



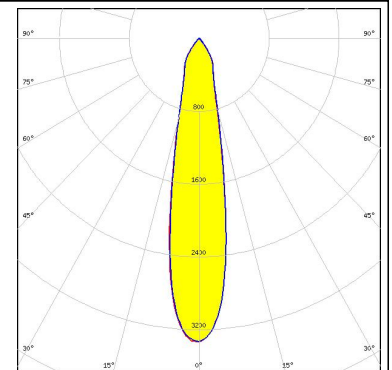
### SAMSUNG

LED COB D Series LES 22 mm  
 FWHM 28.0°  
 Efficiency 91 %  
 Peak intensity 2.400 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12692\_LENINA-STD-BASE-CLL040



### SAMSUNG

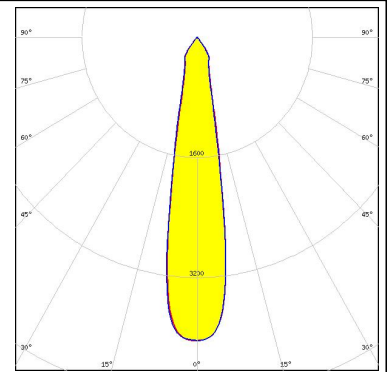
LED LC026B / 033B / 040B  
 FWHM 21.0°  
 Efficiency 87 %  
 Peak intensity 3.300 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13868\_LENINA-STD-BASE-VERO13-18  
 C12606\_LENINA-DL  
 Bender Wirth: 450 Typ L2



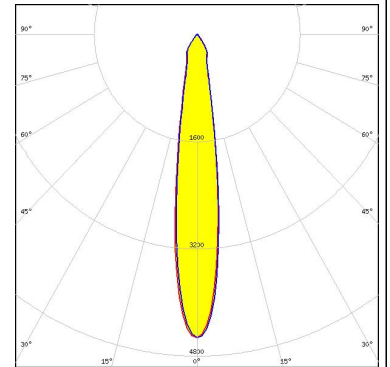
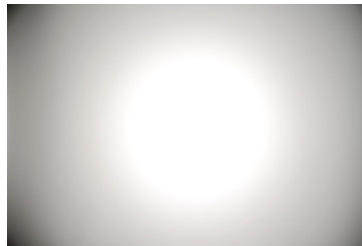
#### PHOTOMETRIC DATA (MEASURED):

### SAMSUNG

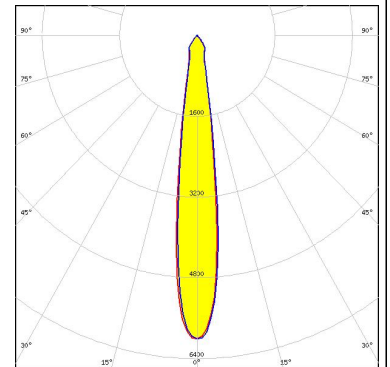
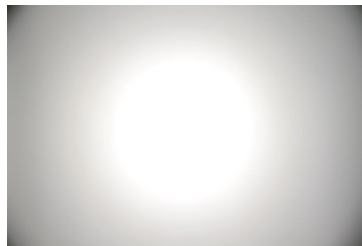
LED LC026B / 033B / 040B  
 FWHM 20.0°  
 Efficiency 91 %  
 Peak intensity 4.000 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13868\_LENINA-STD-BASE-VERO13-18  
 Bender Wirth: 450 Typ L2



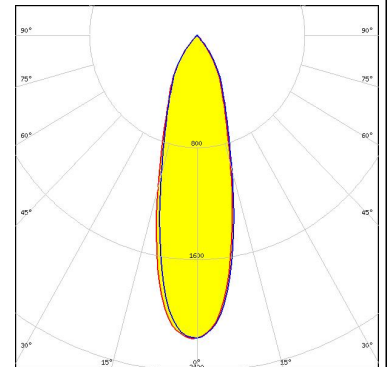
SEOL SEMICONDUCTOR  
 LED ZC12/18  
 FWHM 16.0°  
 Efficiency 85 %  
 Peak intensity 4.530 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12691\_LENINA-STD-BASE-CLL030  
 C12606\_LENINA-DL




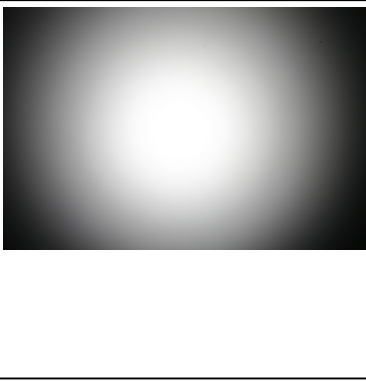
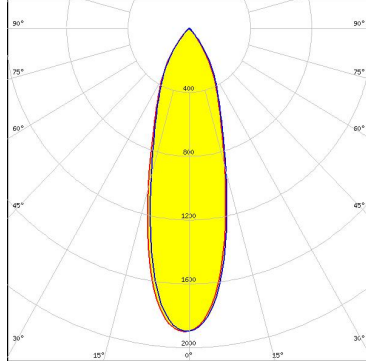
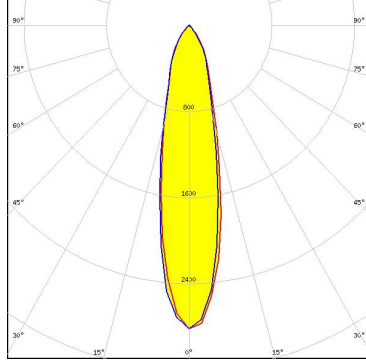
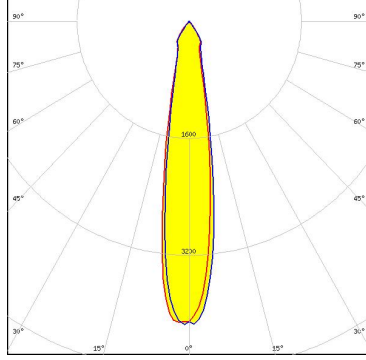

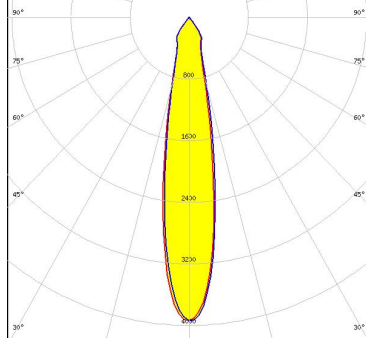
SEOL SEMICONDUCTOR  
 LED ZC12/18  
 FWHM 15.0°  
 Efficiency 90 %  
 Peak intensity 6.000 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12691\_LENINA-STD-BASE-CLL030



SEOL SEMICONDUCTOR  
 LED ZC25/40/60  
 FWHM 29.0°  
 Efficiency 86 %  
 Peak intensity 2.200 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12692\_LENINA-STD-BASE-CLL040



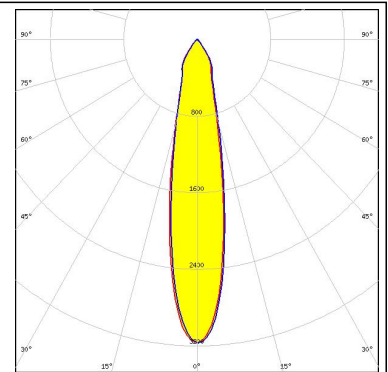
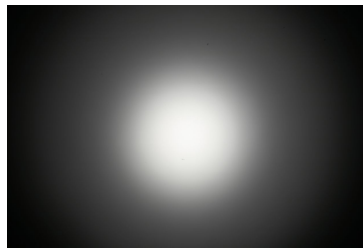
#### PHOTOMETRIC DATA (MEASURED):

<p> SEOUL SEMICONDUCTOR</p> <p>LED ZC25/40/60 FWHM 30.0° Efficiency 82 % Peak intensity 1.900 cd/lm LEDs/each optic 1 Light colour White Required components: C12692_LENINA-STD-BASE-CLL040 C12606_LENINA-DL</p>		
<p><b>SHARP</b></p> <p>LED Mega Zenigata (GW5DGC) FWHM 24.0° Efficiency 80 % Peak intensity 2.800 cd/lm LEDs/each optic 1 Light colour White Required components: C12292_LENINA-STD-BASE-MEZ C12606_LENINA-DL</p>		
<p><b>SHARP</b></p> <p>LED Mega Zenigata (GW5DGC) FWHM 17.0° Efficiency 88 % Peak intensity cd/lm LEDs/each optic 1 Light colour White Required components: C12292_LENINA-STD-BASE-MEZ</p>		
<p><b>SHARP</b></p> <p>LED Mega Zenigata (GW6DME) FWHM 19.0° Efficiency 88 % Peak intensity 3.940 cd/lm LEDs/each optic 1 Light colour White Required components: C12292_LENINA-STD-BASE-MEZ</p>		

### PHOTOMETRIC DATA (MEASURED):

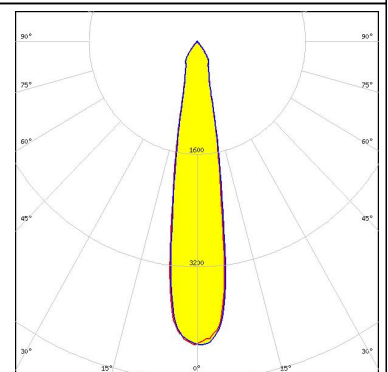
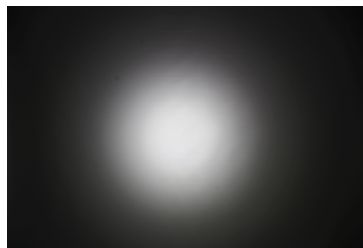
#### SHARP

LED Mega Zenigata (GW6DME)  
FWHM 21.0°  
Efficiency 83 %  
Peak intensity 3.170 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C12292\_LENINA-STD-BASE-MEZ  
C12606\_LENINA-DL



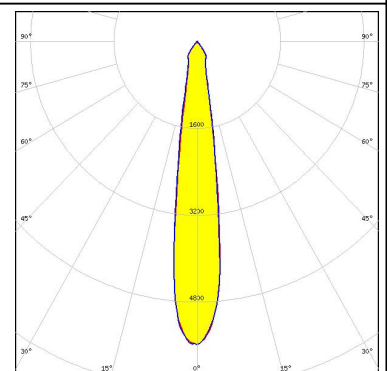
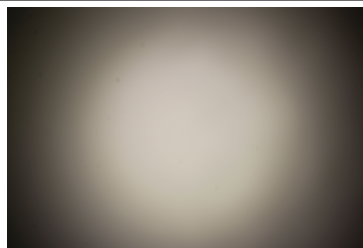
#### TRIDONIC

LED SLE G6 LES17 H  
FWHM 19.0°  
Efficiency 91 %  
Peak intensity 4.300 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C14547\_LENINA-ADAPTER-B



#### TRIDONIC

LED SLE G7 LES15  
FWHM 16.0°  
Efficiency 93 %  
Peak intensity 5.600 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 11.0°            Efficiency 91 %            Peak intensity 10.560 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C13868_LENINA-STD-BASE-VERO13-18            Bender Wirth: 486 Typ L1</p>	
<p>bridgelux.</p> <p>LED V10 Gen7            FWHM 16.0°            Efficiency 85 %            Peak intensity 5.510 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C13868_LENINA-STD-BASE-VERO13-18            C12606_LENINA-DL            Bender Wirth: 486 Typ L1</p>	
<p>bridgelux.</p> <p>LED V13 Gen7            FWHM 22.0°            Efficiency 87 %            Peak intensity 3.000 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C12606_LENINA-DL            IDEAL: 50-2103CT + 50-2100AN</p>	
<p>bridgelux.</p> <p>LED V13 Gen7            FWHM 18.0°            Efficiency 86 %            Peak intensity 4.480 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C13868_LENINA-STD-BASE-VERO13-18            C12606_LENINA-DL            Bender Wirth: 477 Typ L1</p>	

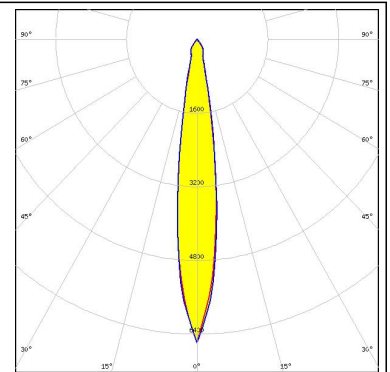
#### PHOTOMETRIC DATA (SIMULATED):

<p>bridgelux.</p> <p>LED V13 Gen7            FWHM 16.0°            Efficiency 91 %            Peak intensity 6.070 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C13868_LENINA-STD-BASE-VERO13-18            Bender Wirth: 477 Typ L1</p>	
<p>bridgelux.</p> <p>LED V13 Gen7            FWHM 18.0°            Efficiency 90 %            Peak intensity 4.080 cd/lm            LEDs/each optic 1            Light colour White            Required components:            IDEAL: 50-2103CT + 50-2100AN</p>	
<p>bridgelux.</p> <p>LED V22 Gen7            FWHM 27.0°            Efficiency 90 %            Peak intensity 2.682 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C13867_LENINA-STD-BASE-VERO29            Bender Wirth: 431 Typ L3</p>	
<p>bridgelux.</p> <p>LED V22 Gen7            FWHM 26.0°            Efficiency 87 %            Peak intensity 2.528 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C13867_LENINA-STD-BASE-VERO29            C12606_LENINA-DL            Bender Wirth: 431 Typ L3</p>	

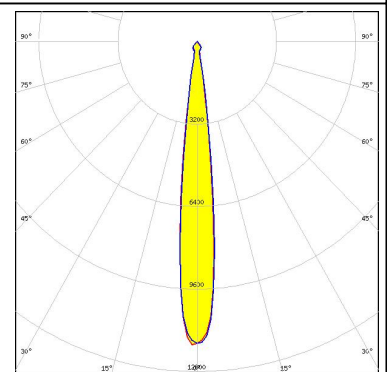
#### PHOTOMETRIC DATA (SIMULATED):



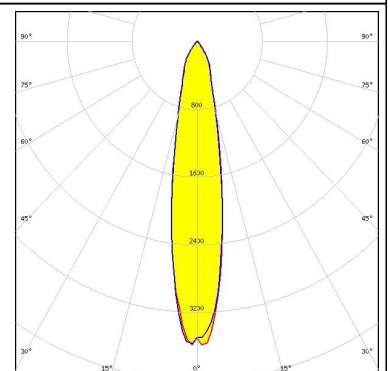
LED CXA/B 13xx  
 FWHM 15.0°  
 Efficiency 91 %  
 Peak intensity 6.590 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13868\_LENINA-STD-BASE-VERO13-18  
 C12606\_LENINA-DL  
 Bender Wirth: 448 Typ L1



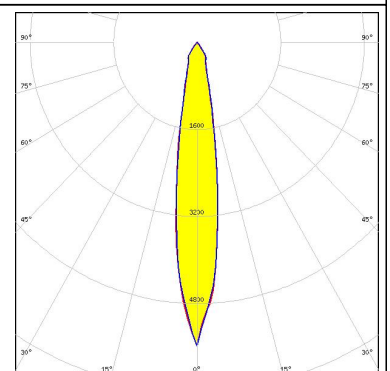
LED CXA/B 13xx  
 FWHM 12.0°  
 Efficiency 94 %  
 Peak intensity 11.830 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13868\_LENINA-STD-BASE-VERO13-18  
 Bender Wirth: 448 Typ L1



LED CXA/B 1830  
 FWHM 19.0°  
 Efficiency 84 %  
 Peak intensity 3.640 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14146\_LENINA-STD-BASE-CXA18  
 C12606\_LENINA-DL



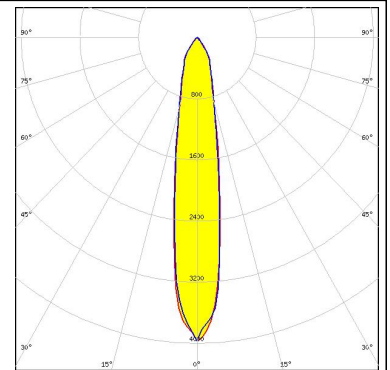
LED CXA/B 1830  
 FWHM 16.0°  
 Efficiency 93 %  
 Peak intensity 5.580 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14146\_LENINA-STD-BASE-CXA18



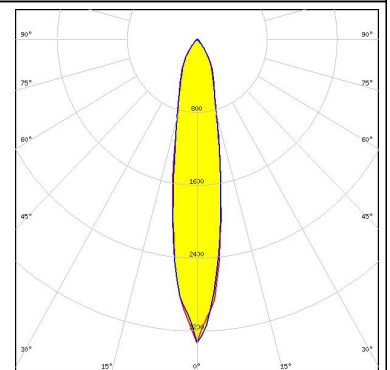
#### PHOTOMETRIC DATA (SIMULATED):



LED CXA/B 30xx  
 FWHM 18.0°  
 Efficiency 90 %  
 Peak intensity 4.000 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 IDEAL: 50-2234C + 50-2100LN



LED CXA/B 30xx  
 FWHM 19.0°  
 Efficiency 84 %  
 Peak intensity 3.300 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C12606\_LENINA-DL  
 IDEAL: 50-2234C + 50-2100LN



LED CXM-14  
 FWHM 17.0°  
 Efficiency 87 %  
 Peak intensity 4.500 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



LED CXM-14  
 FWHM 17.0°  
 Efficiency 91 %  
 Peak intensity 5.500 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C13868\_LENINA-STD-BASE-VERO13-18  
 Bender Wirth: 433 Typ L1

### PHOTOMETRIC DATA (SIMULATED):



LED CXM-9  
FWHM 13.0°  
Efficiency 86 %  
Peak intensity 6.900 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

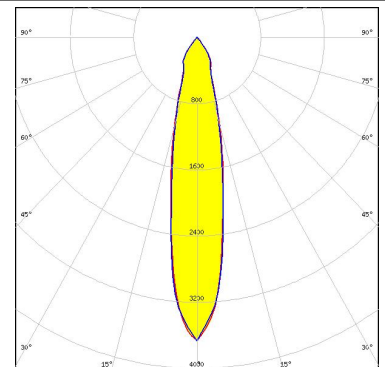


LED CXM-9  
FWHM 11.0°  
Efficiency 91 %  
Peak intensity 10.900 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C13868\_LENINA-STD-BASE-VERO13-18  
Bender Wirth: 434 Typ L1



Opto Semiconductors




LED Soleriq S15  
FWHM 20.0°  
Efficiency 91 %  
Peak intensity 3.660 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C12691\_LENINA-STD-BASE-CLL030



SEOUL SEMICONDUCTOR

LED ZC12/18  
FWHM 17.0°  
Efficiency 87 %  
Peak intensity 4.500 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	ZC12/18
	FWHM	17.0°
	Efficiency	91 %
	Peak intensity	5.500 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	ZC4/6
	FWHM	13.0°
	Efficiency	86 %
	Peak intensity	6.900 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
 SEOUL SEMICONDUCTOR	LED	ZC4/6
	FWHM	11.0°
	Efficiency	91 %
	Peak intensity	10.900 cd/lm
	LEDs/each optic	1
	Light colour	White
	Required components:	C13868_LENINA-STD-BASE-VERO13-18 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.

### PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

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

#### Shipping locations

Salo, Finland  
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