

LENINA-XW

White version with ~75° wide beam

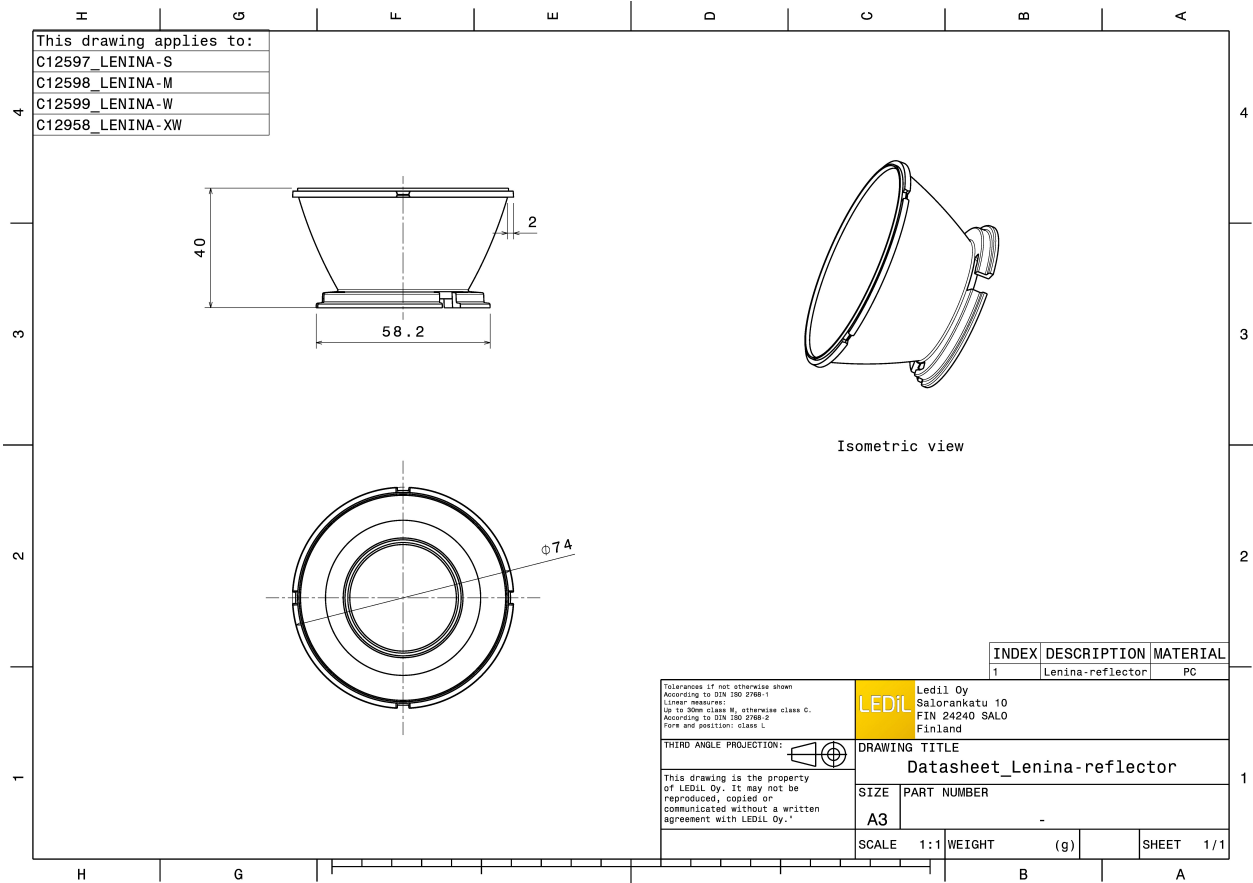
TECHNICAL SPECIFICATIONS:

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



MATERIAL SPECIFICATIONS:


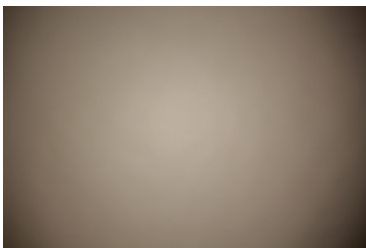
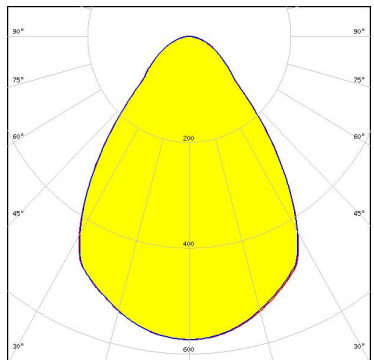

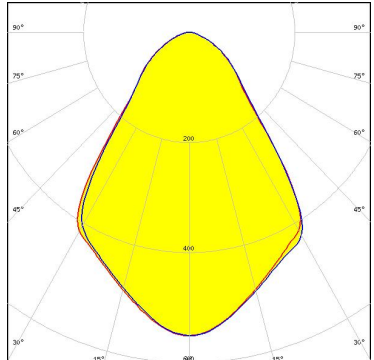
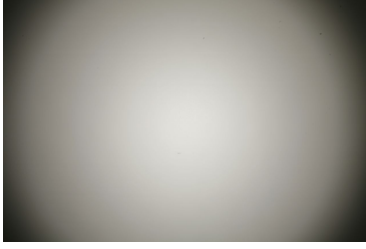
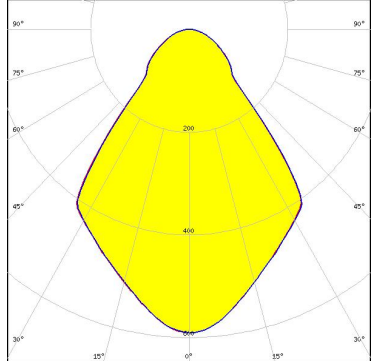
Component	Type	Material	Colour	Coating
LENINA-XW	Reflector	HRPC	white	



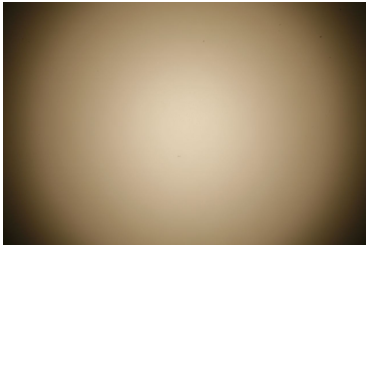
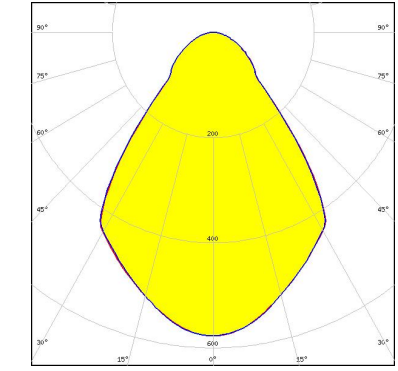
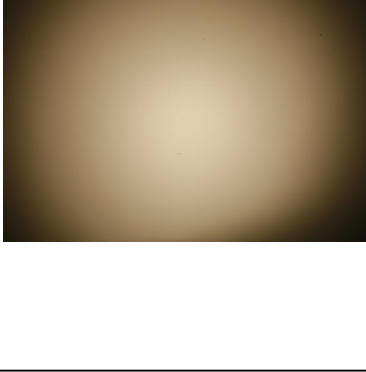
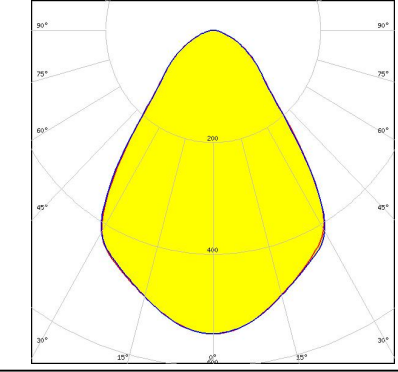
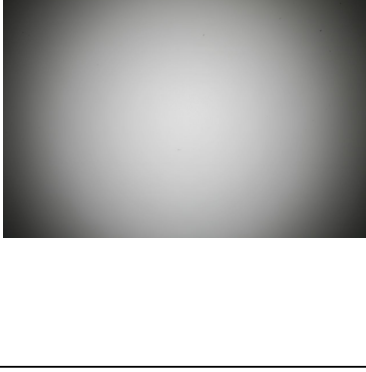
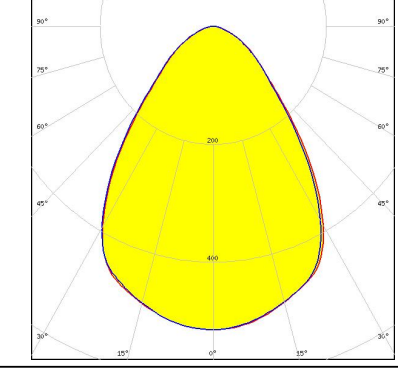
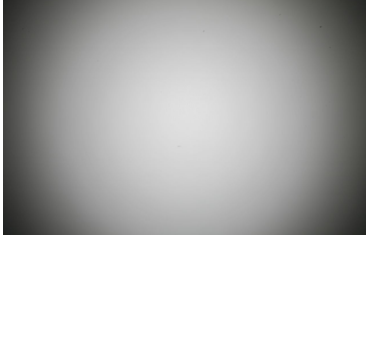
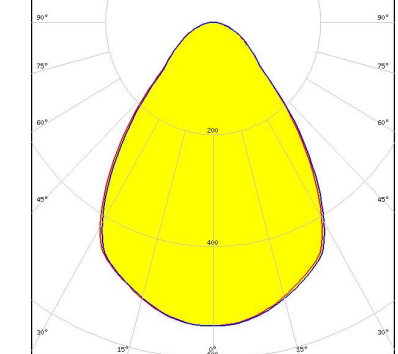
PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED BXRA ES Rectangle</p> <p>FWHM 73.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 0.570 cd/lm</p> <p>Required components: C12153_LENINA-STD-BASE-BXRA 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 0.610 cd/lm</p> <p>Required components: C12153_LENINA-STD-BASE-BXRA</p>	
<p>bridgelux.</p> <p>LED BXRA RS</p> <p>FWHM 87.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 0.539 cd/lm</p> <p>Required components: C12229_LENINA-STD-BASE-RS C12606_LENINA-DL</p>	
<p>bridgelux.</p> <p>LED BXRA RS</p> <p>FWHM 76.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 0.570 cd/lm</p> <p>Required components: C12229_LENINA-STD-BASE-RS</p>	

PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED V10 Gen6</p> <p>FWHM 69.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 0.700 cd/lm</p> <p>Required components: C13186_LENINA-STD-BASE-CXA15 C12606_LENINA-DL</p>		
<p>bridgelux.</p> <p>LED Vero SE 29</p> <p>FWHM 76.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 0.600 cd/lm</p> <p>Required components: C15083_LENINA-STD-BASE-VERO29</p>		
<p>bridgelux.</p> <p>LED VERO13</p> <p>FWHM 75.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 0.550 cd/lm</p> <p>Required components: C13868_LENINA-STD-BASE-VERO13-18 C12606_LENINA-DL</p>		
<p>bridgelux.</p> <p>LED VERO13</p> <p>FWHM 76.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 0.590 cd/lm</p> <p>Required components: C13868_LENINA-STD-BASE-VERO13-18</p>		

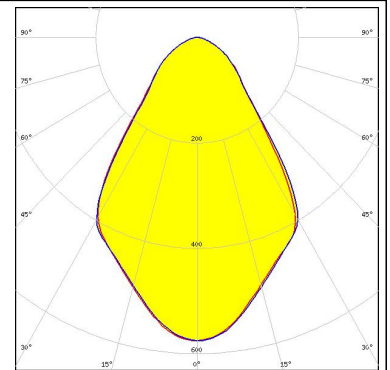
PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED VERO18</p> <p>FWHM 76.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 0.580 cd/lm</p> <p>Required components: C13868_LENINA-STD-BASE-VERO13-18</p>		
<p>bridgelux.</p> <p>LED VERO18</p> <p>FWHM 75.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 0.540 cd/lm</p> <p>Required components: C13868_LENINA-STD-BASE-VERO13-18 C12606_LENINA-DL</p>		
<p>bridgelux.</p> <p>LED VERO29</p> <p>FWHM 77.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 0.520 cd/lm</p> <p>Required components: C13867_LENINA-STD-BASE-VERO29 C12606_LENINA-DL</p>		
<p>bridgelux.</p> <p>LED VERO29</p> <p>FWHM 77.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 0.540 cd/lm</p> <p>Required components: C13867_LENINA-STD-BASE-VERO29</p>		

PHOTOMETRIC DATA (MEASURED):

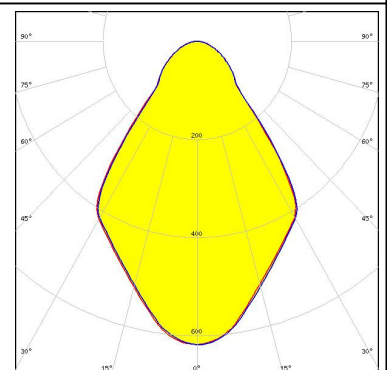
CITIZEN

LED CL-L340
 FWHM 71.0°
 Efficiency 82 %
 Peak intensity 0.575 cd/lm
 Required components:
 C11995_LENINA-STD-BASE-CL340
 C12606_LENINA-DL



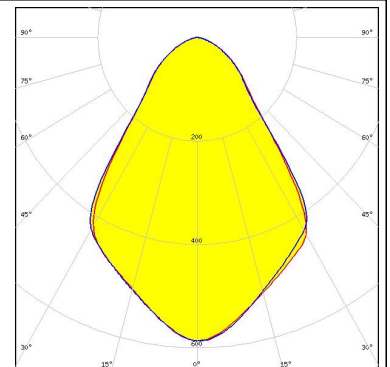
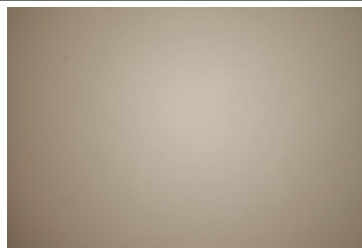
CITIZEN

LED CL-L340
 FWHM 72.0°
 Efficiency 86 %
 Peak intensity 0.619 cd/lm
 Required components:
 C11995_LENINA-STD-BASE-CL340



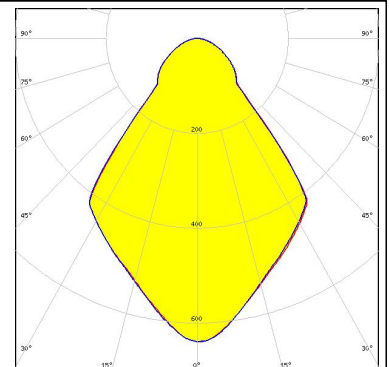
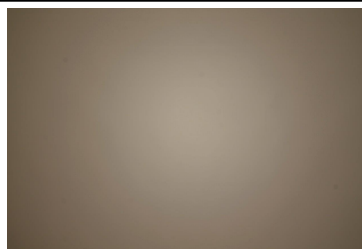
CITIZEN

LED CLL02x/CLU02x (LES10)
 FWHM 73.0°
 Efficiency 89 %
 Peak intensity 0.590 cd/lm
 Required components:
 C13868_LENINA-STD-BASE-VERO13-18
 C12606_LENINA-DL
 Bender Wirth: 434 Typ L1



CITIZEN

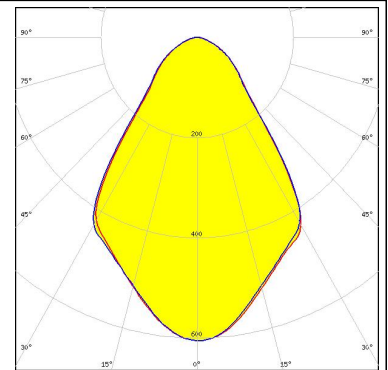
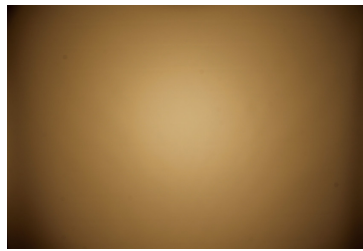
LED CLL02x/CLU02x (LES10)
 FWHM 75.0°
 Efficiency 93 %
 Peak intensity 0.640 cd/lm
 Required components:
 C13868_LENINA-STD-BASE-VERO13-18
 Bender Wirth: 434 Typ L1



PHOTOMETRIC DATA (MEASURED):

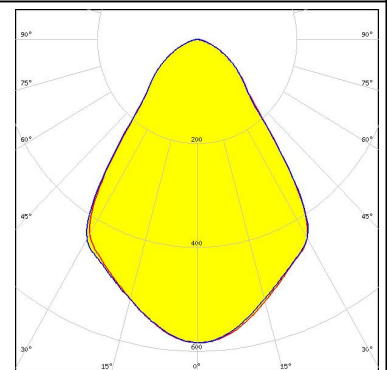
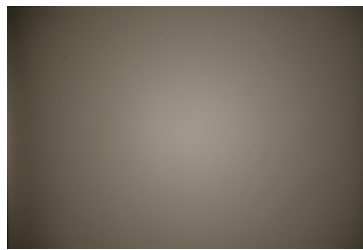
CITIZEN

LED CLL03x/CLU03x
FWHM 72.0°
Efficiency 88 %
Peak intensity 0.610 cd/lm
Required components:
C12691_LENINA-STD-BASE-CLL030
C12606_LENINA-DL



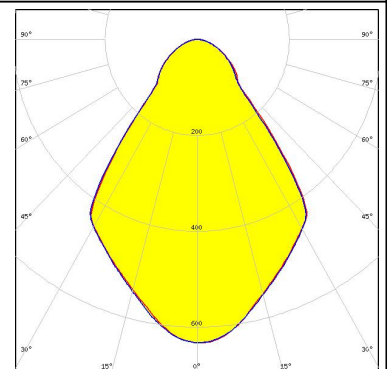
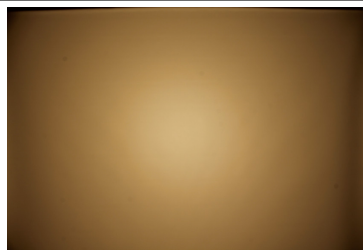
CITIZEN

LED CLL03x/CLU03x
FWHM 74.0°
Efficiency 89 %
Peak intensity 0.580 cd/lm
Required components:
C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 433 Typ L1



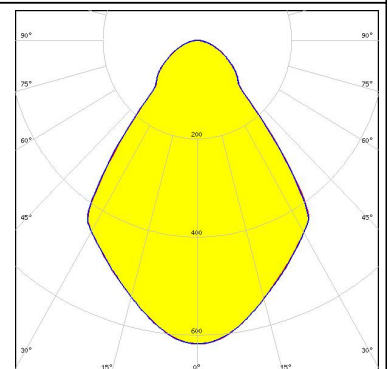
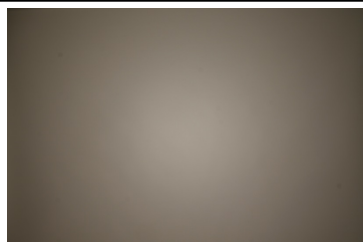
CITIZEN

LED CLL03x/CLU03x
FWHM 74.0°
Efficiency 93 %
Peak intensity 0.630 cd/lm
Required components:
C12691_LENINA-STD-BASE-CLL030



CITIZEN

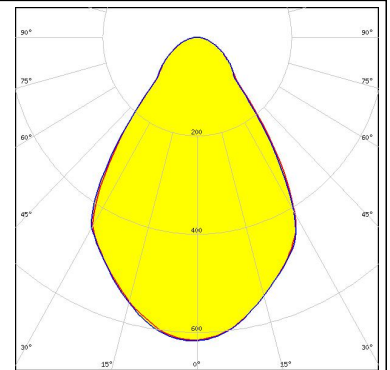
LED CLL03x/CLU03x
FWHM 75.0°
Efficiency 94 %
Peak intensity 0.620 cd/lm
Required components:
C13868_LENINA-STD-BASE-VERO13-18
Bender Wirth: 433 Typ L1



PHOTOMETRIC DATA (MEASURED):

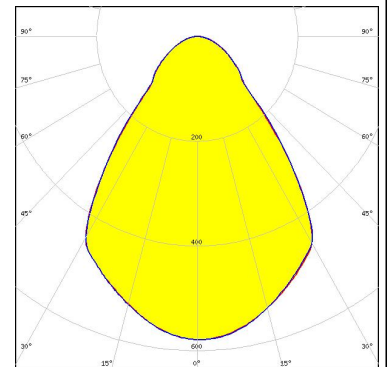
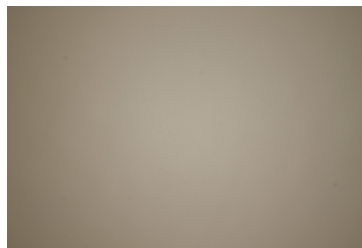
CITIZEN

LED CLL04x/CLU04x
 FWHM 71.0°
 Efficiency 89 %
 Peak intensity 0.600 cd/lm
 Required components:
 C12692_LENINA-STD-BASE-CLL040



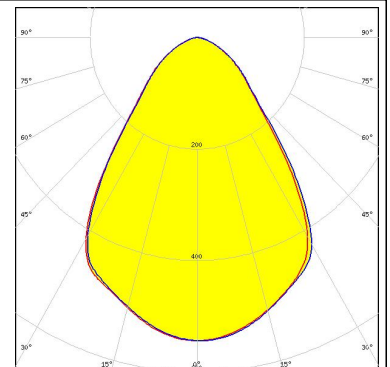
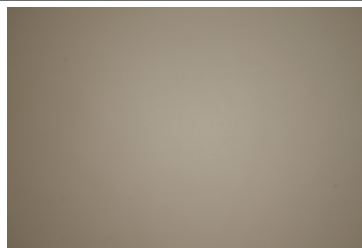
CITIZEN

LED CLL04x/CLU04x
 FWHM 75.0°
 Efficiency 93 %
 Peak intensity 0.580 cd/lm
 Required components:
 C13867_LENINA-STD-BASE-VERO29
 Bender Wirth: 431 Typ L3



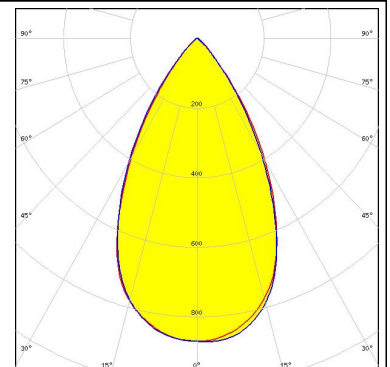
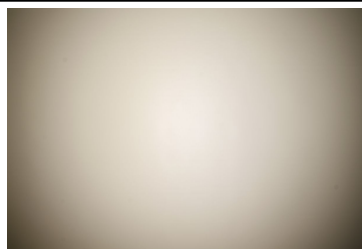
CITIZEN

LED CLL04x/CLU04x
 FWHM 75.0°
 Efficiency 89 %
 Peak intensity 0.540 cd/lm
 Required components:
 C13867_LENINA-STD-BASE-VERO29
 C12606_LENINA-DL
 Bender Wirth: 431 Typ L3



CITIZEN

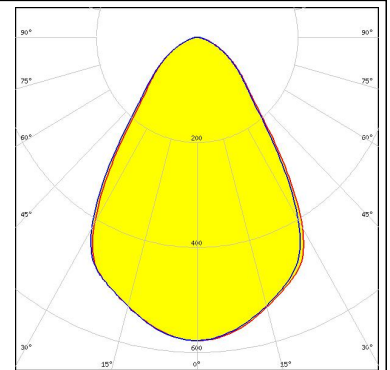
LED CLL04x/CLU04x
 FWHM 73.0°
 Efficiency 81 %
 Peak intensity 0.500 cd/lm
 Required components:
 C12606_LENINA-DL
 A.A.G. STUCCHI: 8102/G2 + S-8000/12



PHOTOMETRIC DATA (MEASURED):

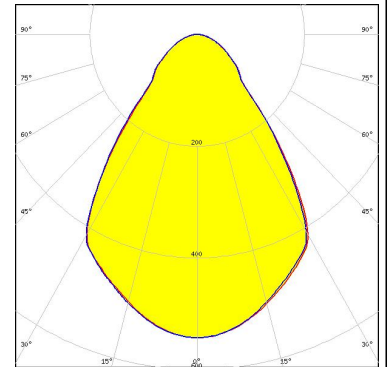
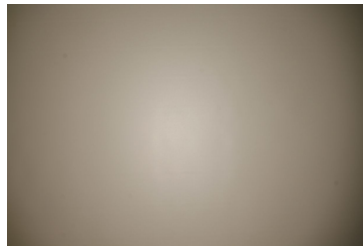
CITIZEN

LED CLL04x/CLU04x
FWHM 71.0°
Efficiency 88 %
Peak intensity 0.600 cd/lm
Required components:
C12606_LENINA-DL
IDEAL: 50-2204CT + 50-2100LN



CITIZEN

LED CLL04x/CLU04x
FWHM 74.0°
Efficiency 84 %
Peak intensity 0.500 cd/lm
Required components:
A.A.G. STUCCHI: 8102/G2 + S-8000/12

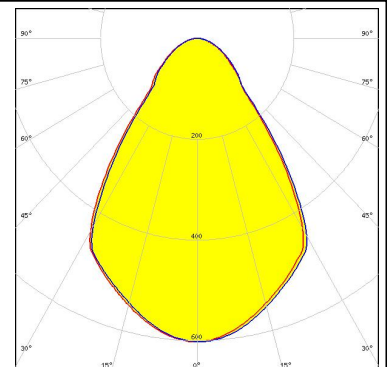
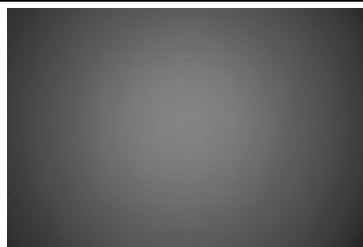


CITIZEN

LED CLL04x/CLU04x
FWHM 71.0°
Efficiency 84 %
Peak intensity 0.600 cd/lm
Required components:
C12692_LENINA-STD-BASE-CLL040
C12606_LENINA-DL

CITIZEN

LED CLL04x/CLU04x
FWHM 72.0°
Efficiency 91 %
Peak intensity 0.600 cd/lm
Required components:
IDEAL: 50-2204CT + 50-2100LN



PHOTOMETRIC DATA (MEASURED):

CITIZEN

LED CLU700/701

FWHM 73.0°

Efficiency 89 %

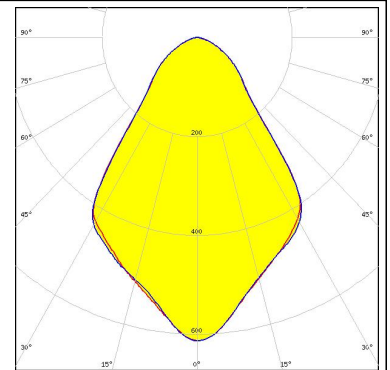
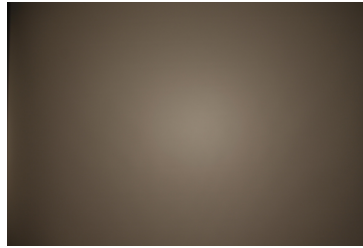
Peak intensity 0.610 cd/lm

Required components:

C13868_LENINA-STD-BASE-VERO13-18

C12606_LENINA-DL

Bender Wirth: 434 Typ L1



CITIZEN

LED CLU700/701

FWHM 75.0°

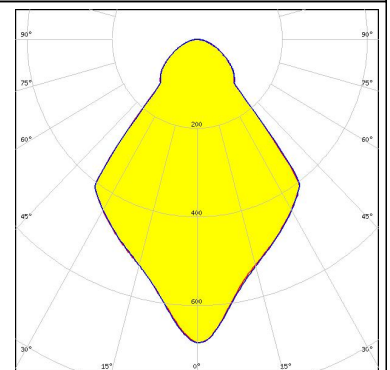
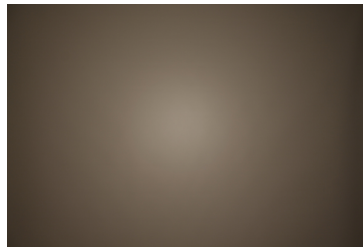
Efficiency 93 %

Peak intensity 0.680 cd/lm

Required components:

C13868_LENINA-STD-BASE-VERO13-18

Bender Wirth: 434 Typ L1



CITIZEN

LED CLU710/711

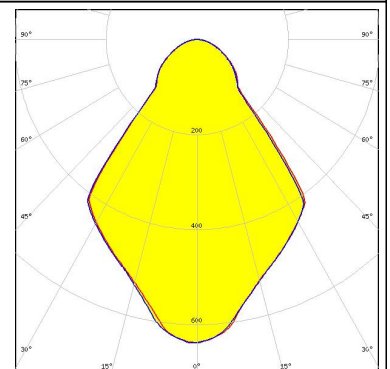
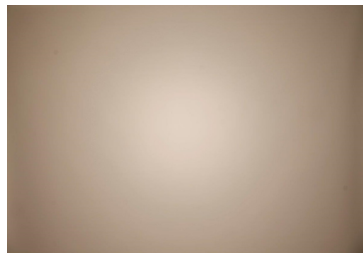
FWHM 75.0°

Efficiency 94 %

Peak intensity 0.640 cd/lm

Required components:

C12691_LENINA-STD-BASE-CLL030



CITIZEN

LED CLU710/711

FWHM 73.0°

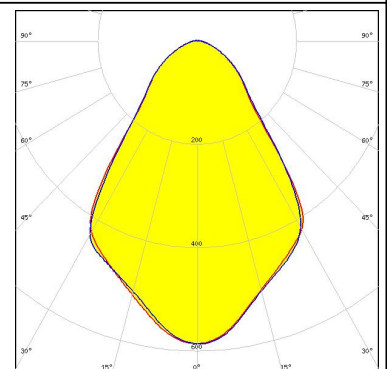
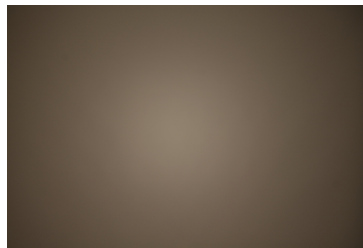
Efficiency 90 %

Peak intensity 0.590 cd/lm

Required components:

C12691_LENINA-STD-BASE-CLL030

C12606_LENINA-DL



PHOTOMETRIC DATA (MEASURED):

CITIZEN

LED CLU720/721

FWHM 73.0°

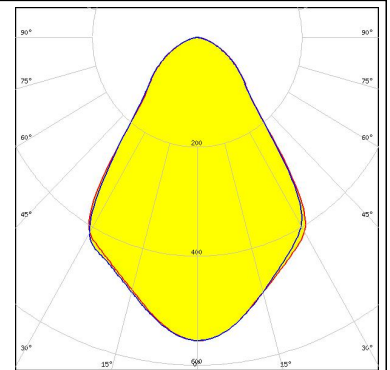
Efficiency 85 %

Peak intensity 0.560 cd/lm

Required components:

C12691_LENINA-STD-BASE-CLL030

C12606_LENINA-DL



CITIZEN

LED CLU720/721

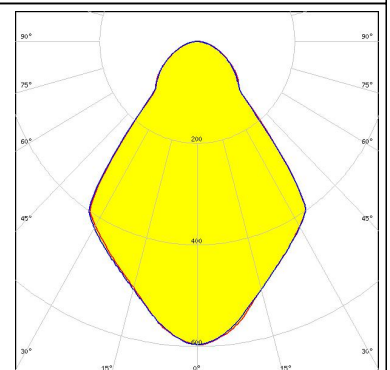
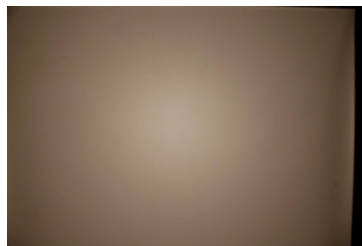
FWHM 74.0°

Efficiency 89 %

Peak intensity 0.600 cd/lm

Required components:

C12691_LENINA-STD-BASE-CLL030



CITIZEN

LED CLU730/731

FWHM 71.0°

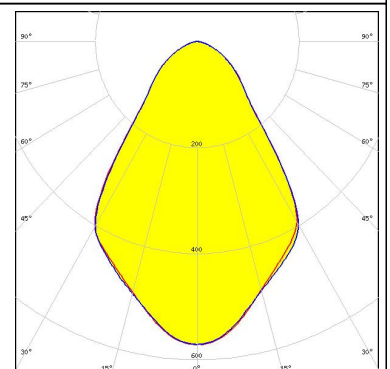
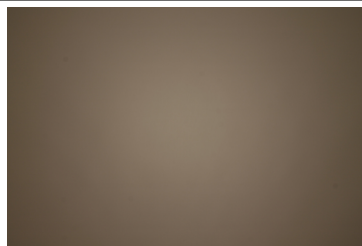
Efficiency 84 %

Peak intensity 0.570 cd/lm

Required components:

C12692_LENINA-STD-BASE-CLL040

C12606_LENINA-DL



CITIZEN

LED CLU730/731

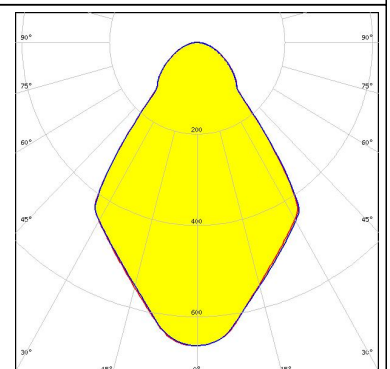
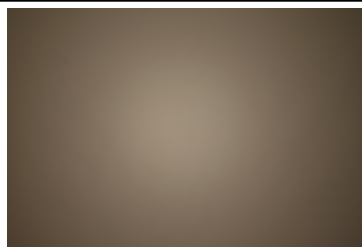
FWHM 72.0°

Efficiency 94 %

Peak intensity 0.660 cd/lm

Required components:

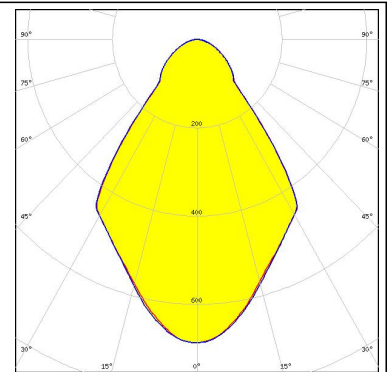
C12692_LENINA-STD-BASE-CLL040



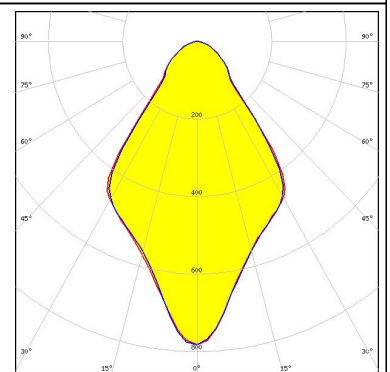
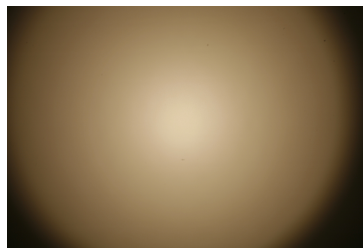
PHOTOMETRIC DATA (MEASURED):



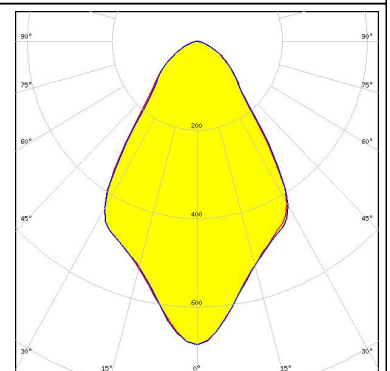
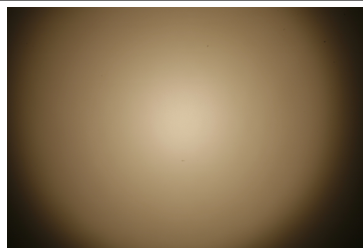
LED CMA1840
 FWHM 71.0°
 Efficiency 93 %
 Peak intensity 0.700 cd/lm
 Required components:
 C14146_LENINA-STD-BASE-CXA18



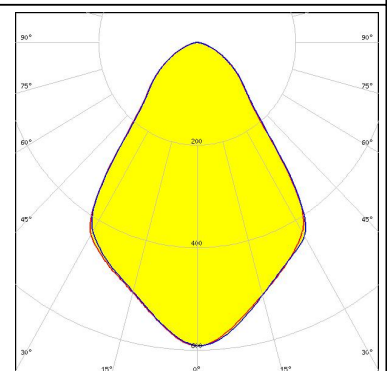
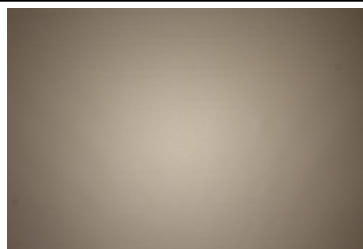
LED CXA/B 15xx
 FWHM 70.0°
 Efficiency 91 %
 Peak intensity 0.800 cd/lm
 Required components:
 C13186_LENINA-STD-BASE-CXA15



LED CXA/B 15xx
 FWHM 69.0°
 Efficiency 86 %
 Peak intensity 0.700 cd/lm
 Required components:
 C13186_LENINA-STD-BASE-CXA15
 C12606_LENINA-DL



LED CXA/B 15xx
 FWHM 73.0°
 Efficiency 89 %
 Peak intensity 0.590 cd/lm
 Required components:
 C13868_LENINA-STD-BASE-VERO13-18
 C12606_LENINA-DL
 Bender Wirth: 441 Typ L1



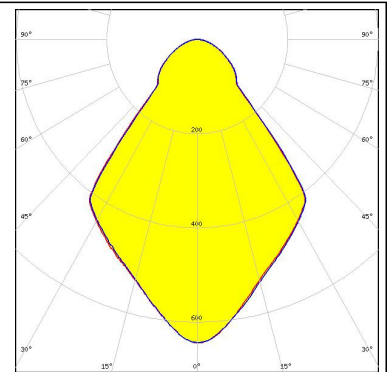
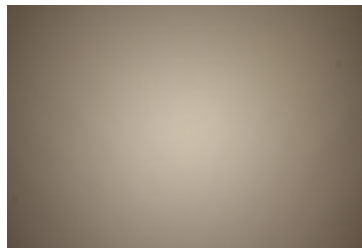
PHOTOMETRIC DATA (MEASURED):



LED CXA/B 15xx
 FWHM 75.0°
 Efficiency 93 %
 Peak intensity 0.640 cd/lm

Required components:

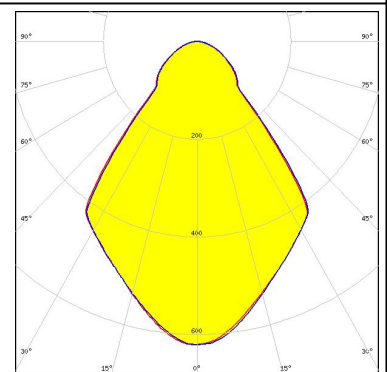
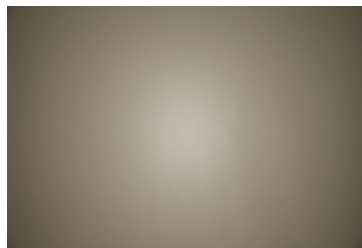
C13868_LENINA-STD-BASE-VERO13-18
 Bender Wirth: 441 Typ L1



LED CXA/B 1816 & CXA/B 1820 & CXA 1850
 FWHM 75.0°
 Efficiency 93 %
 Peak intensity 0.620 cd/lm

Required components:

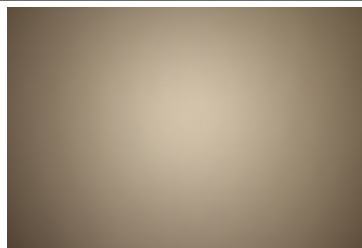
C13868_LENINA-STD-BASE-VERO13-18
 Bender Wirth: 437 Typ L1



LED CXA/B 1816 & CXA/B 1820 & CXA 1850
 FWHM 73.0°
 Efficiency 94 %
 Peak intensity 0.790 cd/lm

Required components:

C14146_LENINA-STD-BASE-CXA18



LED CXA/B 1816 & CXA/B 1820 & CXA 1850
 FWHM 73.0°
 Efficiency 94 %
 Peak intensity 0.790 cd/lm

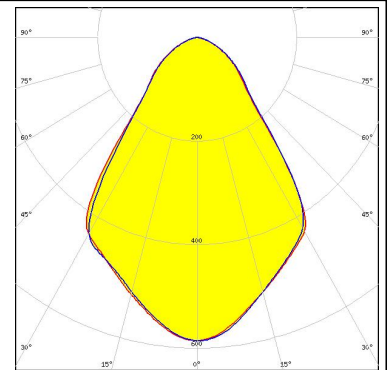
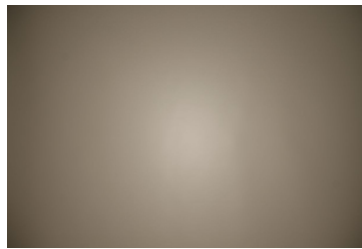
Required components:

C14146_LENINA-STD-BASE-CXA18
 C12606_LENINA-DL

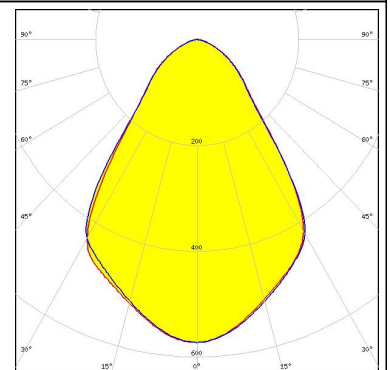
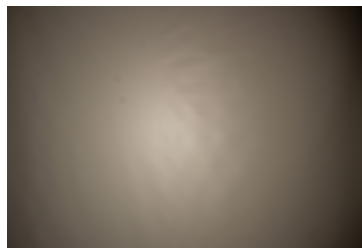
PHOTOMETRIC DATA (MEASURED):



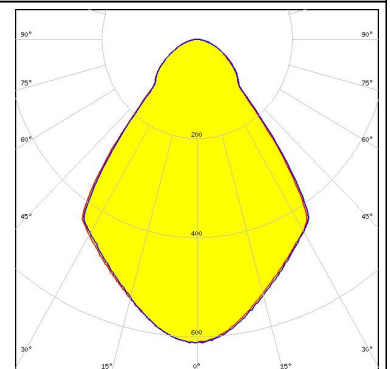
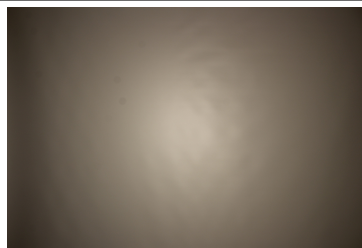
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
 FWHM 74.0°
 Efficiency 89 %
 Peak intensity 0.590 cd/lm
 Required components:
 C13868_LENINA-STD-BASE-VERO13-18
 C12606_LENINA-DL
 Bender Wirth: 437 Typ L1



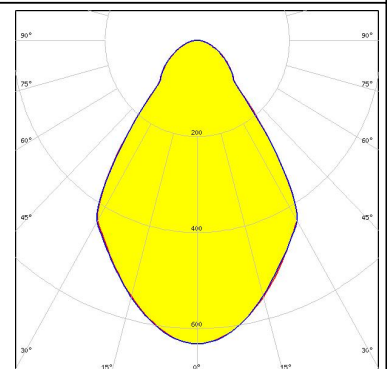
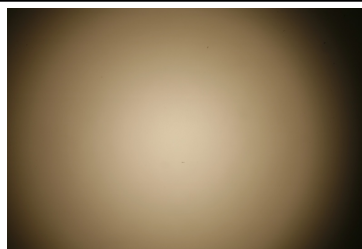
LED CXA/B 1830
 FWHM 74.0°
 Efficiency 89 %
 Peak intensity 0.570 cd/lm
 Required components:
 C13868_LENINA-STD-BASE-VERO13-18
 C12606_LENINA-DL
 Bender Wirth: 437 Typ L1



LED CXA/B 1830
 FWHM 75.0°
 Efficiency 94 %
 Peak intensity 0.600 cd/lm
 Required components:
 C13868_LENINA-STD-BASE-VERO13-18
 Bender Wirth: 437 Typ L1



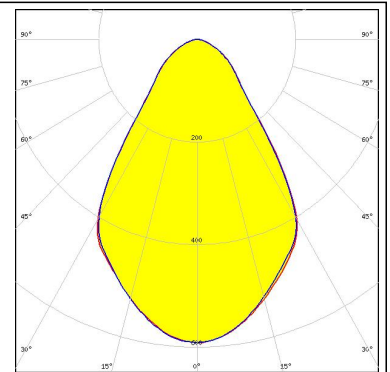
LED CXA/B 25xx
 FWHM 70.0°
 Efficiency 89 %
 Peak intensity 0.700 cd/lm
 Required components:
 C13324_LENINA-STD-BASE-CXA25



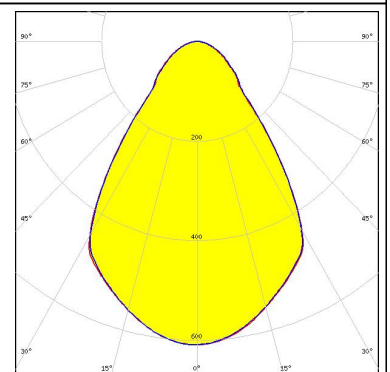
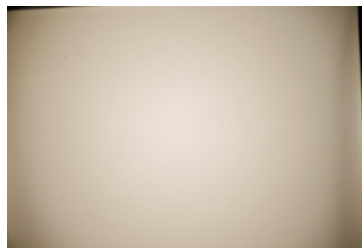
PHOTOMETRIC DATA (MEASURED):



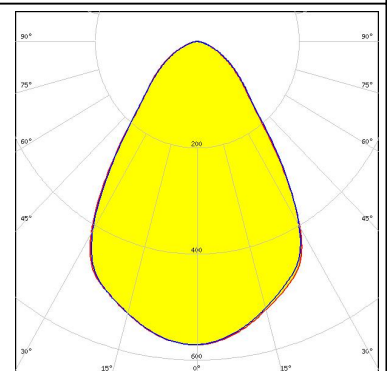
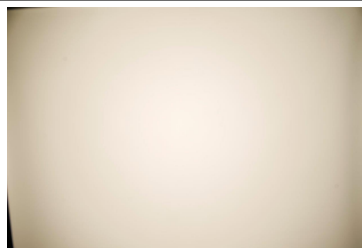
LED CXA/B 25xx
 FWHM 70.0°
 Efficiency 84 %
 Peak intensity 0.600 cd/lm
 Required components:
 C13324_LENINA-STD-BASE-CXA25
 C12606_LENINA-DL



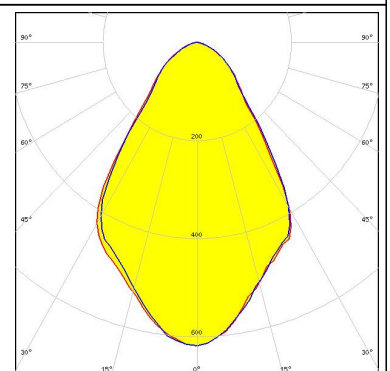
LED CXA/B 30xx
 FWHM 72.0°
 Efficiency 91 %
 Peak intensity 0.600 cd/lm
 Required components:
 IDEAL: 50-2234C + 50-2100LN



LED CXA/B 30xx
 FWHM 77.0°
 Efficiency 87 %
 Peak intensity 0.600 cd/lm
 Required components:
 C12606_LENINA-DL
 IDEAL: 50-2234C + 50-2100LN



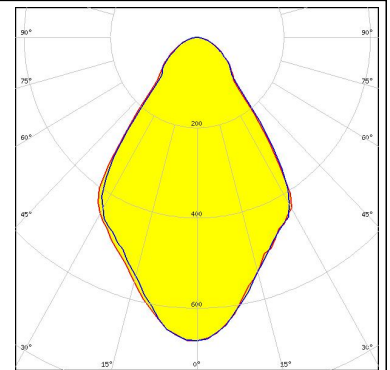
LED CXA2011
 FWHM 70.0°
 Efficiency 82 %
 Peak intensity 0.600 cd/lm
 Required components:
 C12105_LENINA-STD-BASE-CXA20
 C12606_LENINA-DL



PHOTOMETRIC DATA (MEASURED):

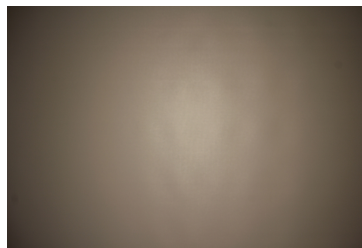
CREE

LED CXA2011
FWHM 72.0°
Efficiency 87 %
Peak intensity 0.700 cd/lm
Required components:
C12105_LENINA-STD-BASE-CXA20



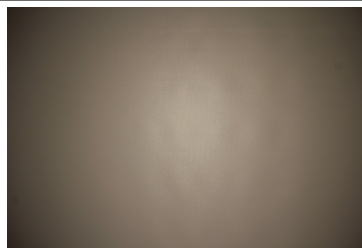
EVERLIGHT

LED CHI3030 19W
FWHM 75.0°
Efficiency 94 %
Peak intensity 0.550 cd/lm
Required components:
C13867_LENINA-STD-BASE-VERO29
C12606_LENINA-DL
Bender Wirth: 468 Typ L3



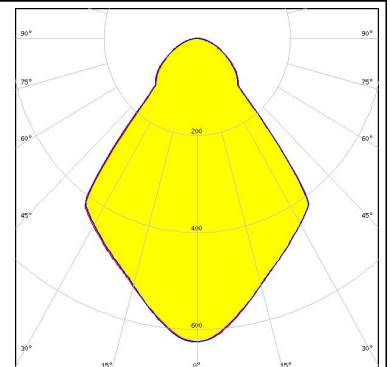
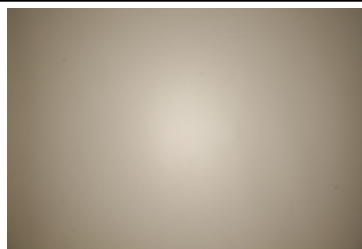
EVERLIGHT

LED CHI3030 29W
FWHM 75.0°
Efficiency 90 %
Peak intensity 0.520 cd/lm
Required components:
C13867_LENINA-STD-BASE-VERO29
C12606_LENINA-DL
Bender Wirth: 468 Typ L3



LUMILEDS

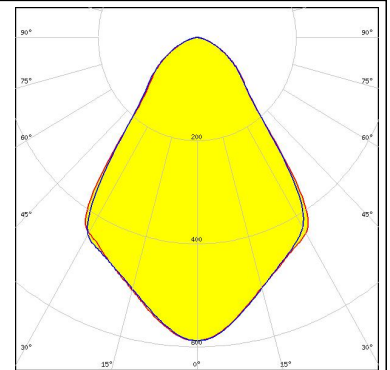
LED LUXEON CoB 1202/1203
FWHM 76.0°
Efficiency 93 %
Peak intensity 0.630 cd/lm
Required components:
C13868_LENINA-STD-BASE-VERO13-18
Bender Wirth: 438 Typ L1



PHOTOMETRIC DATA (MEASURED):

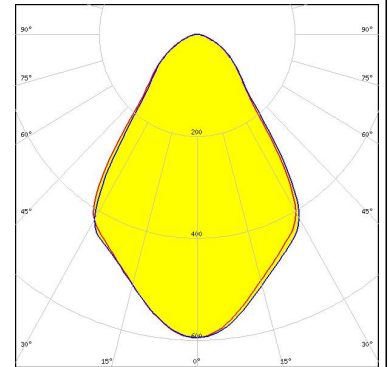
LUMILEDS

LED LUXEON CoB 1202/1203
FWHM 74.0°
Efficiency 89 %
Peak intensity 0.590 cd/lm
Required components:
C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 438 Typ L1



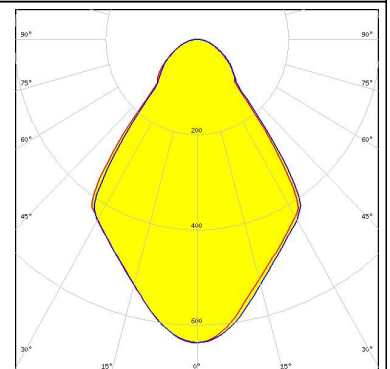
LUMILEDS

LED LUXEON CoB 1204/1205
FWHM 71.0°
Efficiency 86 %
Peak intensity 0.600 cd/lm
Required components:
C12292_LENINA-STD-BASE-MEZ
C12606_LENINA-DL



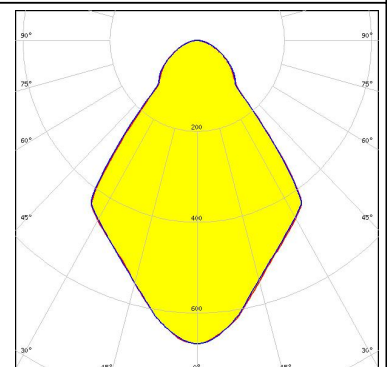
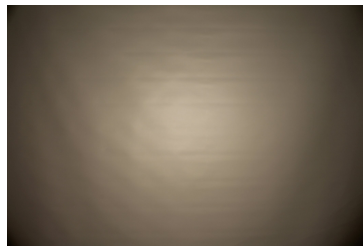
LUMILEDS

LED LUXEON CoB 1204/1205
FWHM 73.0°
Efficiency 90 %
Peak intensity 0.600 cd/lm
Required components:
C12292_LENINA-STD-BASE-MEZ



LUMILEDS

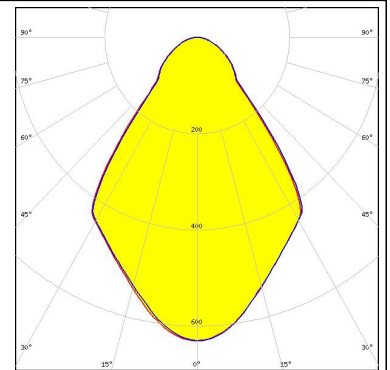
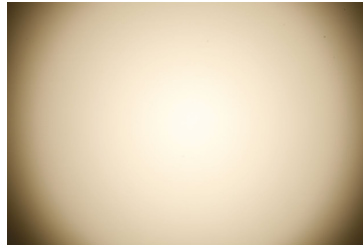
LED LUXEON CoB 1205HD
FWHM 74.0°
Efficiency 94 %
Peak intensity 0.670 cd/lm
Required components:
C11981_LENINA-STD-BASE-COB-L110



PHOTOMETRIC DATA (MEASURED):

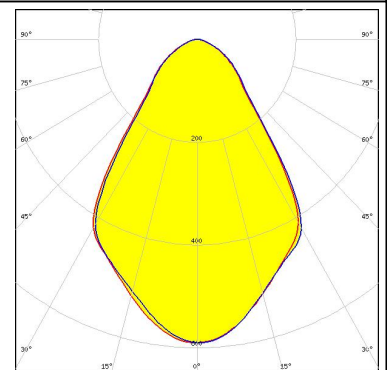
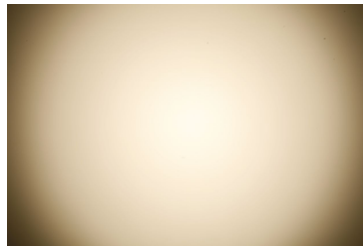
LUMILEDS

LED LUXEON CoB 1208
FWHM 73.0°
Efficiency 91 %
Peak intensity 0.600 cd/lm
Required components:
C12292_LENINA-STD-BASE-MEZ



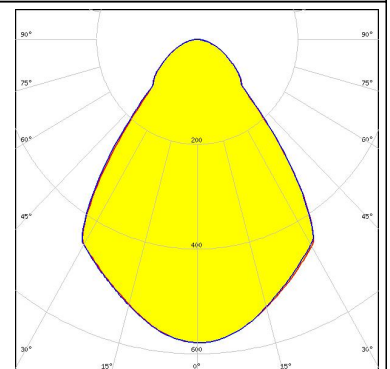
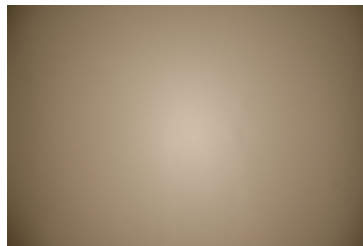
LUMILEDS

LED LUXEON CoB 1208
FWHM 72.0°
Efficiency 86 %
Peak intensity 0.600 cd/lm
Required components:
C12292_LENINA-STD-BASE-MEZ
C12606_LENINA-DL



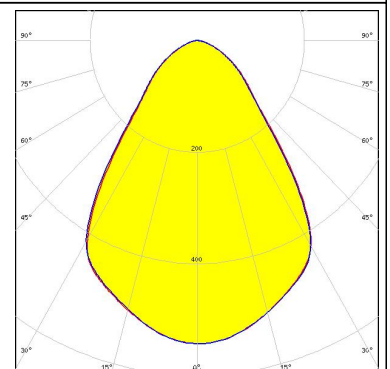
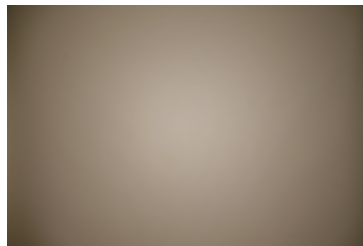
LUMILEDS

LED LUXEON CoB 1211
FWHM 76.0°
Efficiency 93 %
Peak intensity 0.600 cd/lm
Required components:
C13867_LENINA-STD-BASE-VERO29
Bender Wirth: 431 Typ L3



LUMILEDS

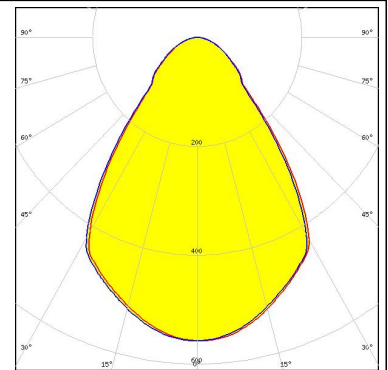
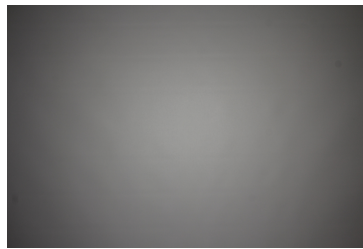
LED LUXEON CoB 1211
FWHM 75.0°
Efficiency 88 %
Peak intensity 0.540 cd/lm
Required components:
C13867_LENINA-STD-BASE-VERO29
C12606_LENINA-DL
Bender Wirth: 431 Typ L3



PHOTOMETRIC DATA (MEASURED):

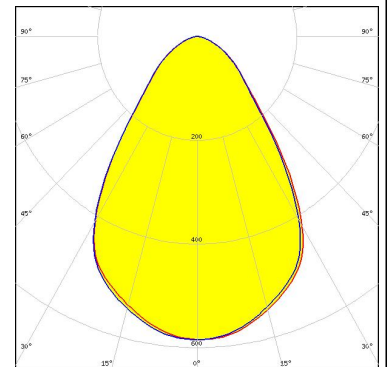
LUMILEDS

LED LUXEON CoB 1216/1812
FWHM 74.0°
Efficiency 88 %
Peak intensity 0.560 cd/lm
Required components:
A.A.G. STUCCHI: 8102/G2 + S-8000/12



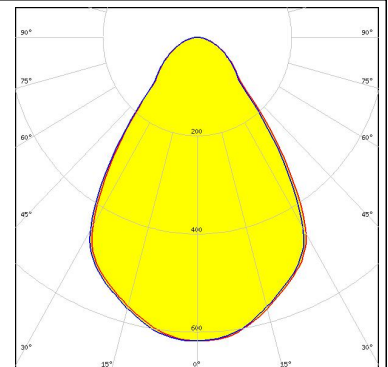
LUMILEDS

LED LUXEON CoB 1216/1812
FWHM 72.0°
Efficiency 90 %
Peak intensity 0.590 cd/lm
Required components:
C12692_LENINA-STD-BASE-CLL040
C12606_LENINA-DL



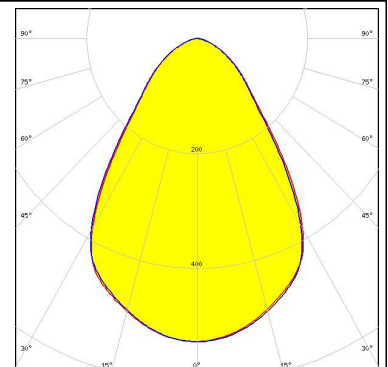
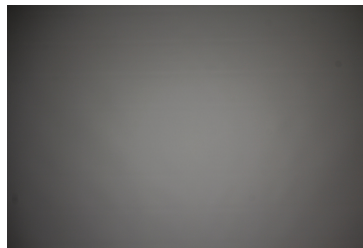
LUMILEDS

LED LUXEON CoB 1216/1812
FWHM 73.0°
Efficiency 94 %
Peak intensity 0.620 cd/lm
Required components:
C12692_LENINA-STD-BASE-CLL040



LUMILEDS

LED LUXEON CoB 1216/1812
FWHM 73.0°
Efficiency 83 %
Peak intensity 0.530 cd/lm
Required components:
C12606_LENINA-DL
A.A.G. STUCCHI: 8102/G2 + S-8000/12



PHOTOMETRIC DATA (MEASURED):

LUMILEDS

LED LUXEON K12

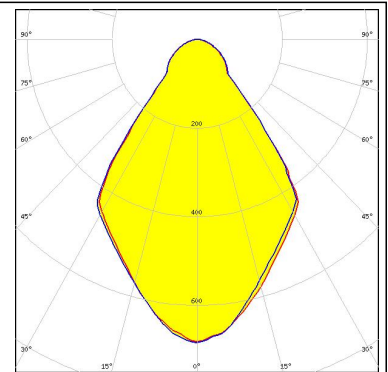
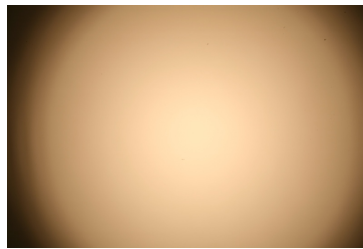
FWHM 72.0°

Efficiency 90 %

Peak intensity 0.700 cd/lm

Required components:

C12924_LENINA-STD-BASE-LUXEON-K



LUMILEDS

LED LUXEON K12

FWHM 68.0°

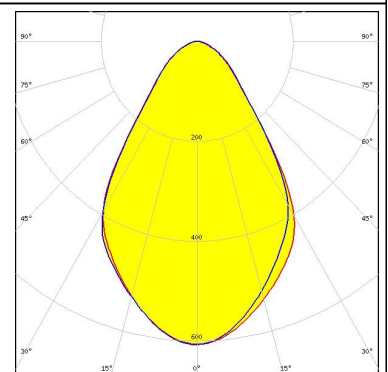
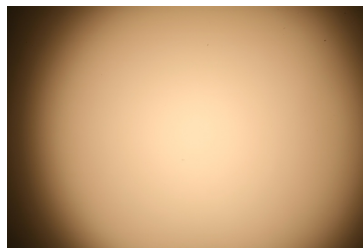
Efficiency 83 %

Peak intensity 0.600 cd/lm

Required components:

C12924_LENINA-STD-BASE-LUXEON-K

C12606_LENINA-DL



LUMILEDS

LED LUXEON K16

FWHM 68.0°

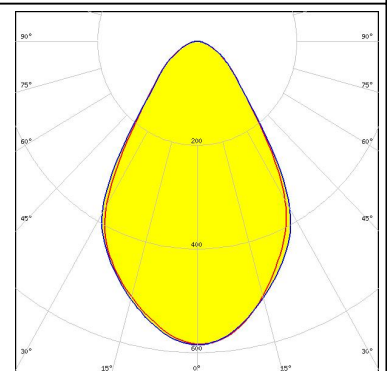
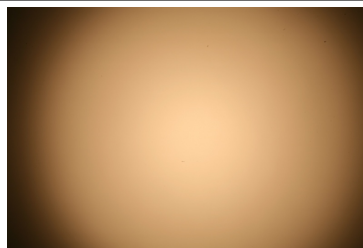
Efficiency 80 %

Peak intensity 0.600 cd/lm

Required components:

C12924_LENINA-STD-BASE-LUXEON-K

C12606_LENINA-DL



LUMILEDS

LED LUXEON K16

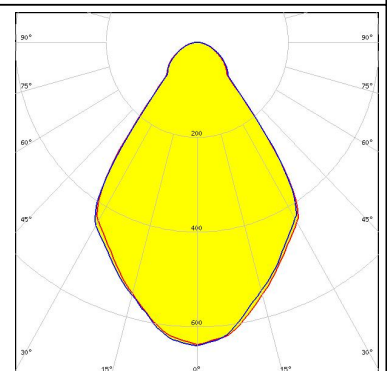
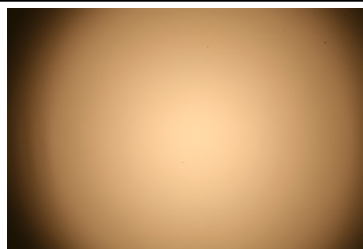
FWHM 72.0°

Efficiency 86 %

Peak intensity 0.640 cd/lm

Required components:

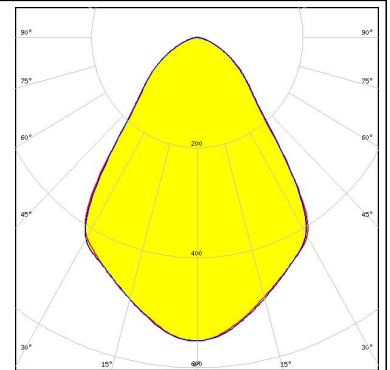
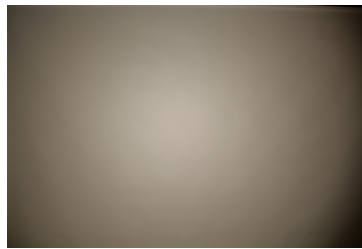
C12924_LENINA-STD-BASE-LUXEON-K



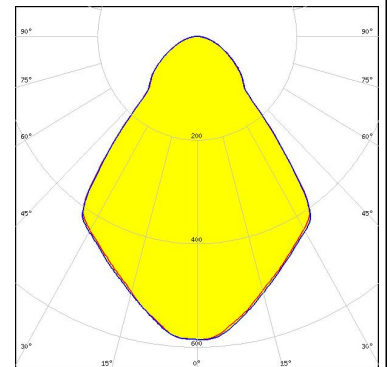
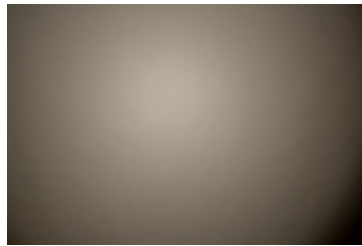
PHOTOMETRIC DATA (MEASURED):



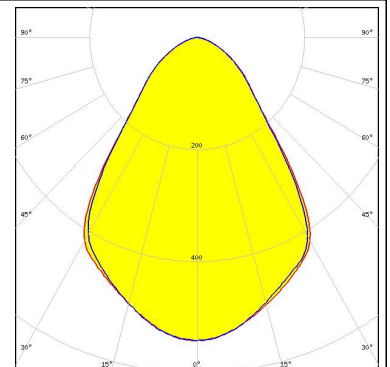
LED CDM-14 (Dim-To-Warm)
 FWHM 75.0°
 Efficiency 89 %
 Peak intensity 0.550 cd/lm
 Required components:
 C13868_LENINA-STD-BASE-VERO13-18
 C12606_LENINA-DL
 Bender Wirth: 491 Typ L2



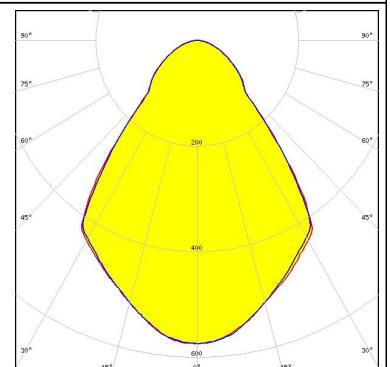
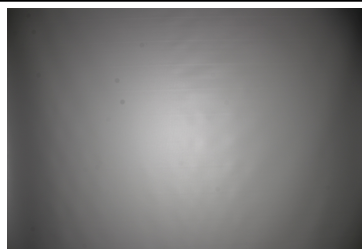
LED CDM-14 (Dim-To-Warm)
 FWHM 77.0°
 Efficiency 93 %
 Peak intensity 0.590 cd/lm
 Required components:
 C13868_LENINA-STD-BASE-VERO13-18
 Bender Wirth: 491 Typ L2



LED CDM-18 (Dim-To-Warm)
 FWHM 75.0°
 Efficiency 89 %
 Peak intensity 0.500 cd/lm
 Required components:
 C13868_LENINA-STD-BASE-VERO13-18
 C12606_LENINA-DL
 Bender Wirth: 491 Typ L2



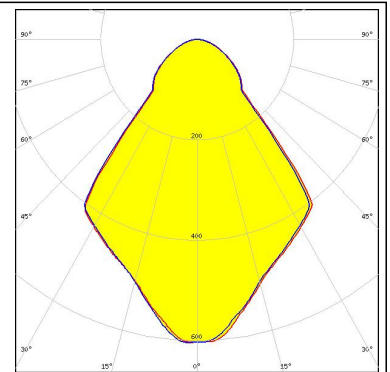
LED CDM-18 (Dim-To-Warm)
 FWHM 76.0°
 Efficiency 93 %
 Peak intensity 0.570 cd/lm
 Required components:
 C13868_LENINA-STD-BASE-VERO13-18
 Bender Wirth: 491 Typ L2



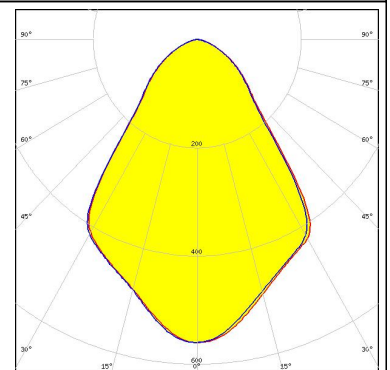
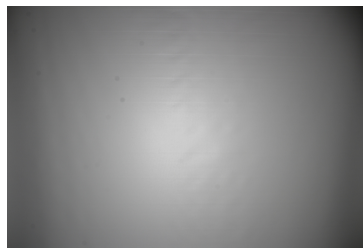
PHOTOMETRIC DATA (MEASURED):



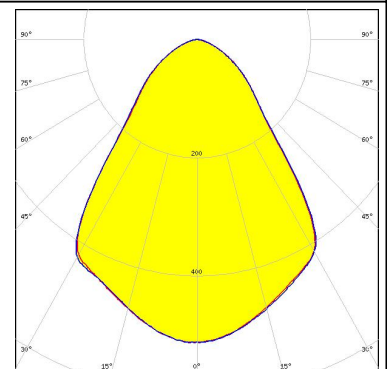
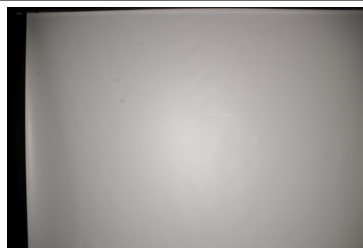
LED CDM-9 (Dim-To-Warm)
FWHM 76.0°
Efficiency 92 %
Peak intensity 0.610 cd/lm
Required components:
C13868_LENINA-STD-BASE-VERO13-18
Bender Wirth: 490 Typ L1



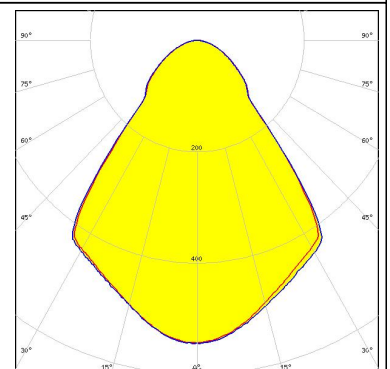
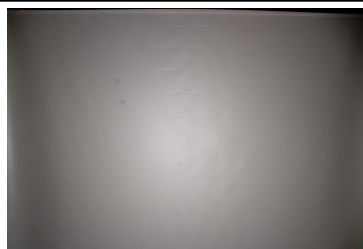
LED CDM-9 (Dim-To-Warm)
FWHM 74.0°
Efficiency 88 %
Peak intensity 0.560 cd/lm
Required components:
C13868_LENINA-STD-BASE-VERO13-18
Bender Wirth: 490 Typ L1




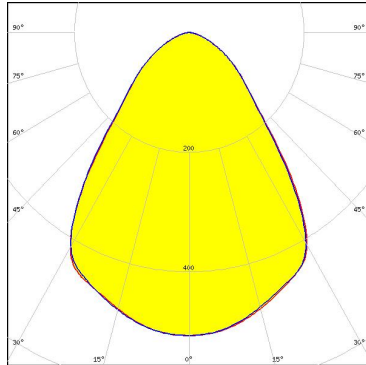
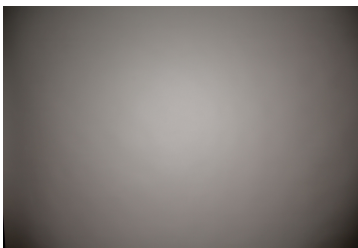
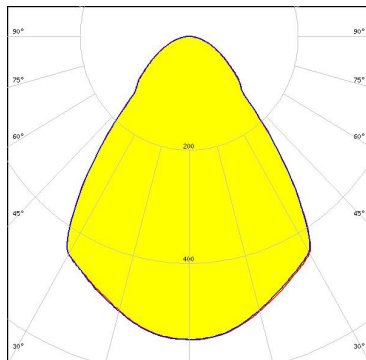
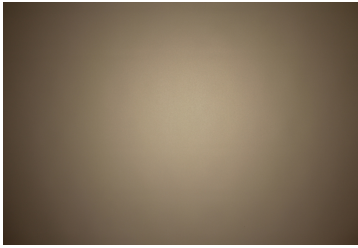
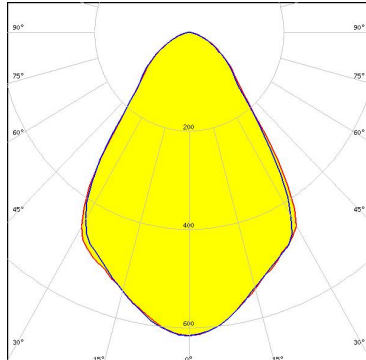
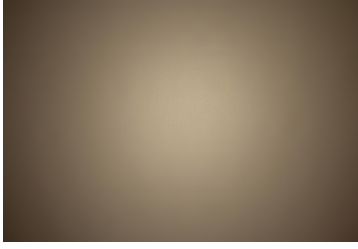
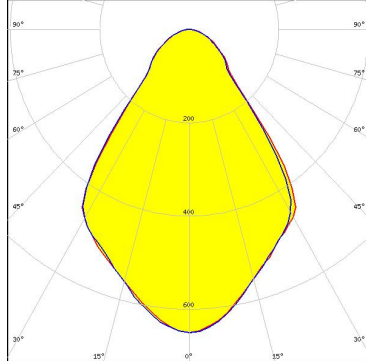
LED CTM-14 (Tunable White)
FWHM 76.0°
Efficiency 87 %
Peak intensity 0.510 cd/lm
Required components:
C13867_LENINA-STD-BASE-VERO29
C12606_LENINA-DL
Bender Wirth: 442 Typ L3



LED CTM-14 (Tunable White)
FWHM 77.0°
Efficiency 92 %
Peak intensity 0.550 cd/lm
Required components:
C13867_LENINA-STD-BASE-VERO29
Bender Wirth: 442 Typ L3



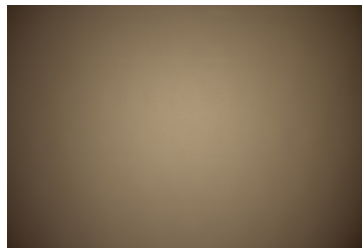
PHOTOMETRIC DATA (MEASURED):

<p>LUMINUS</p> <p>LED CTM-22 (Tunable White)</p> <p>FWHM 77.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 0.500 cd/lm</p> <p>Required components:</p> <p>C13867_LENINA-STD-BASE-VERO29</p> <p>C12606_LENINA-DL</p> <p>Bender Wirth: 494 Typ L3</p>		
<p>LUMINUS</p> <p>LED CTM-22 (Tunable White)</p> <p>FWHM 78.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 0.500 cd/lm</p> <p>Required components:</p> <p>C13867_LENINA-STD-BASE-VERO29</p> <p>Bender Wirth: 494 Typ L3</p>		
<p>LUMINUS</p> <p>LED CXM-14</p> <p>FWHM 73.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 0.620 cd/lm</p> <p>Required components:</p> <p>C12691_LENINA-STD-BASE-CLL030</p> <p>C12606_LENINA-DL</p>		
<p>LUMINUS</p> <p>LED CXM-14</p> <p>FWHM 74.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 0.650 cd/lm</p> <p>Required components:</p> <p>C12691_LENINA-STD-BASE-CLL030</p>		

PHOTOMETRIC DATA (MEASURED):



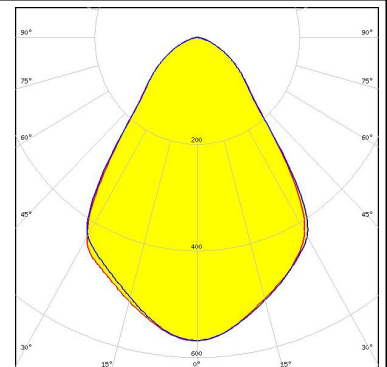
LED CXM-22
 FWHM 73.0°
 Efficiency 91 %
 Peak intensity 0.600 cd/lm
 Required components:
 C12692_LENINA-STD-BASE-CLL040
 C12606_LENINA-DL



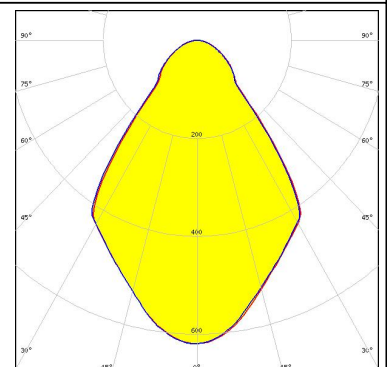
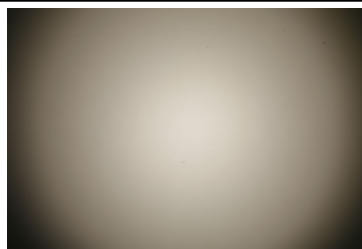
LED CXM-22
 FWHM 73.0°
 Efficiency 94 %
 Peak intensity 0.600 cd/lm
 Required components:
 C12692_LENINA-STD-BASE-CLL040



LED COB J-Type
 FWHM 74.0°
 Efficiency 89 %
 Peak intensity 0.600 cd/lm
 Required components:
 C13868_LENINA-STD-BASE-VERO13-18
 C12606_LENINA-DL
 Bender Wirth: 463 Typ L2



LED COB J-Type
 FWHM 73.0°
 Efficiency 89 %
 Peak intensity 0.620 cd/lm
 Required components:
 C12292_LENINA-STD-BASE-MEZ



PHOTOMETRIC DATA (MEASURED):



LED COB J-Type

FWHM 76.0°

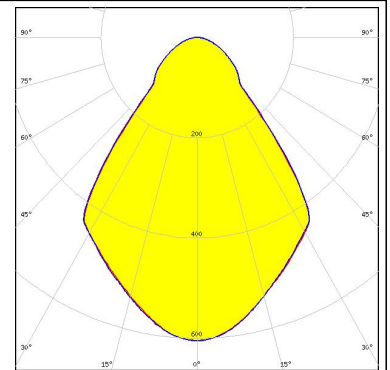
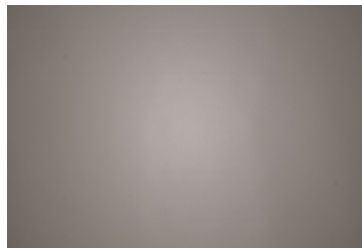
Efficiency 94 %

Peak intensity 0.610 cd/lm

Required components:

C13868_LENINA-STD-BASE-VERO13-18

Bender Wirth: 463 Typ L2



LED COB J-Type

FWHM 72.0°

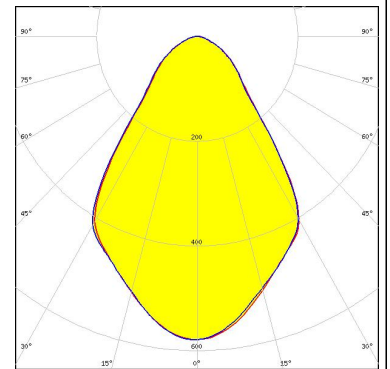
Efficiency 84 %

Peak intensity 0.580 cd/lm

Required components:

C12292_LENINA-STD-BASE-MEZ

C12606_LENINA-DL



LED COB L-Type (LES 11)

FWHM 73.0°

Efficiency 89 %

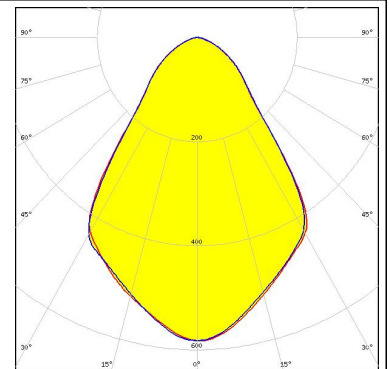
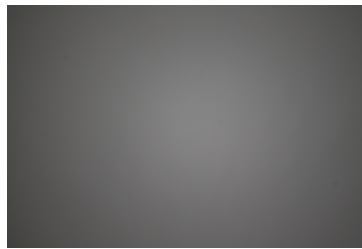
Peak intensity 0.580 cd/lm

Required components:

C13868_LENINA-STD-BASE-VERO13-18

C12606_LENINA-DL

Bender Wirth: 438 Typ L1



LED COB L-Type (LES 11)

FWHM 75.0°

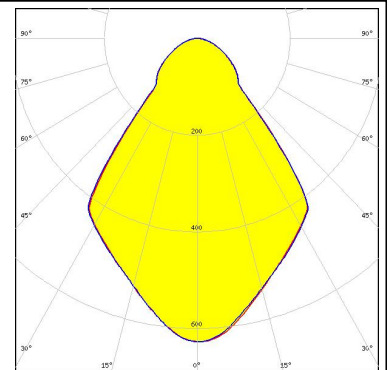
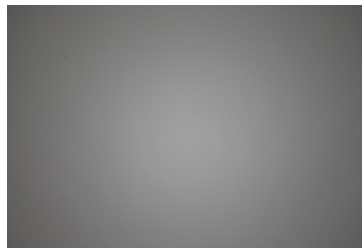
Efficiency 93 %

Peak intensity 0.630 cd/lm

Required components:

C13868_LENINA-STD-BASE-VERO13-18

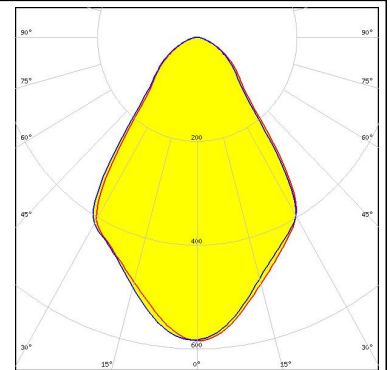
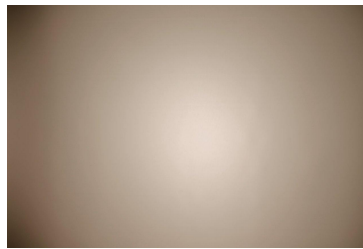
Bender Wirth: 438 Typ L1



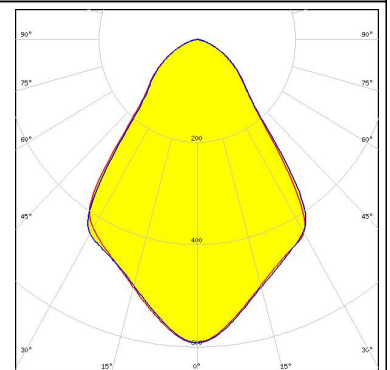
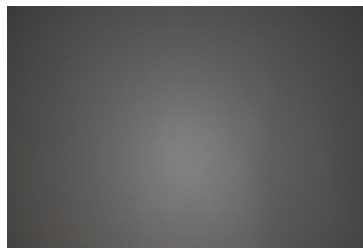
PHOTOMETRIC DATA (MEASURED):



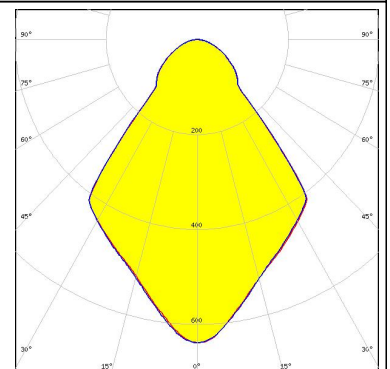
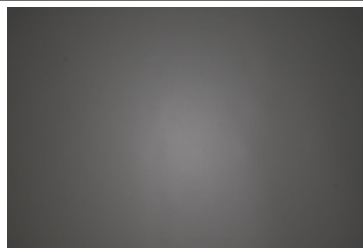
LED COB L-Type (LES 11)
 FWHM 71.0°
 Efficiency 82 %
 Peak intensity 0.600 cd/lm
 Required components:
 C11981_LENASTD-BASE-COB-L110
 C12606_LENINA-DL



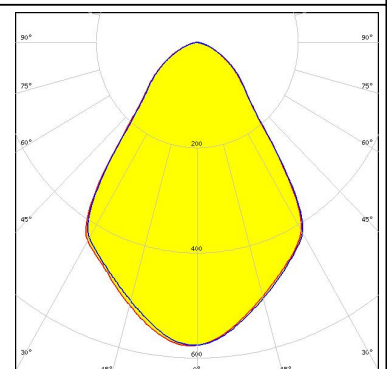
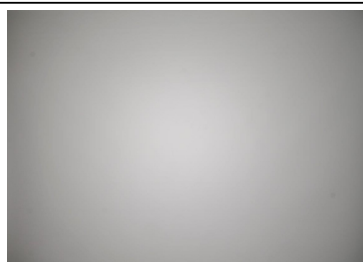
LED COB L-Type (LES 9)
 FWHM 74.0°
 Efficiency 90 %
 Peak intensity 0.590 cd/lm
 Required components:
 C13868_LENASTD-BASE-VERO13-18
 C12606_LENINA-DL
 Bender Wirth: 438 Typ L1



LED COB L-Type (LES 9)
 FWHM 76.0°
 Efficiency 94 %
 Peak intensity 0.640 cd/lm
 Required components:
 C13868_LENASTD-BASE-VERO13-18
 Bender Wirth: 438 Typ L1



LED Soleriq S13
 FWHM 73.0°
 Efficiency 89 %
 Peak intensity 0.580 cd/lm
 Required components:
 C13868_LENASTD-BASE-VERO13-18
 C12606_LENINA-DL
 Bender Wirth: 437 Typ L1



PHOTOMETRIC DATA (MEASURED):

OSRAM
Opto Semiconductors

LED Soleriq S13

FWHM 75.0°

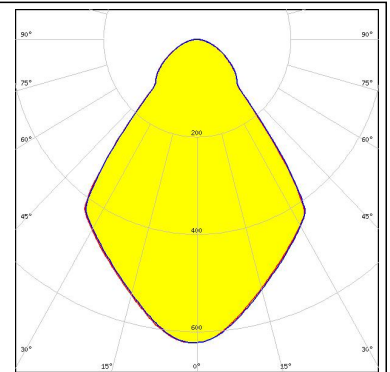
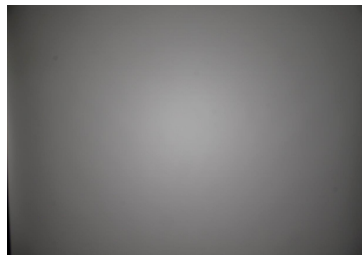
Efficiency 93 %

Peak intensity 0.620 cd/lm

Required components:

C13868_LENINA-STD-BASE-VERO13-18

Bender Wirth: 437 Typ L1



OSRAM
Opto Semiconductors

LED Soleriq S19

FWHM 75.0°

Efficiency 88 %

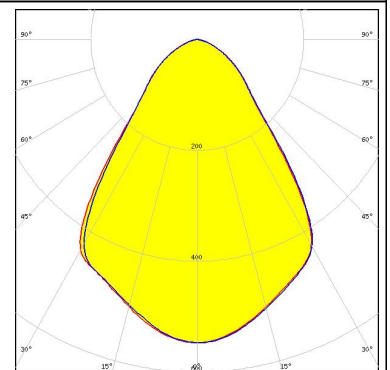
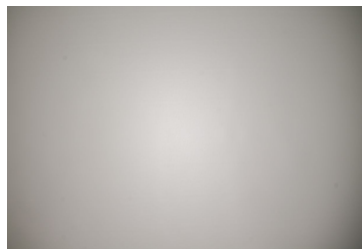
Peak intensity 0.550 cd/lm

Required components:

C13867_LENINA-STD-BASE-VERO29

C12606_LENINA-DL

Bender Wirth: 462 Typ L3



OSRAM
Opto Semiconductors

LED Soleriq S19

FWHM 76.0°

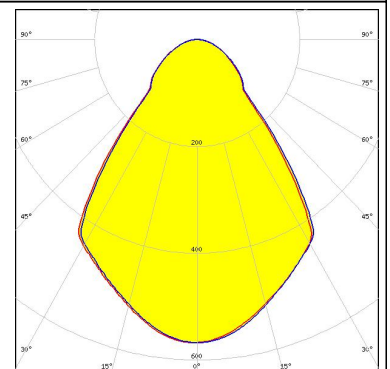
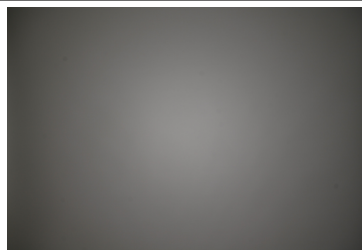
Efficiency 93 %

Peak intensity 0.600 cd/lm

Required components:

C13867_LENINA-STD-BASE-VERO29

Bender Wirth: 462 Typ L3



SAMSUNG

LED COB D Series LES 14.5 mm

FWHM 73.0°

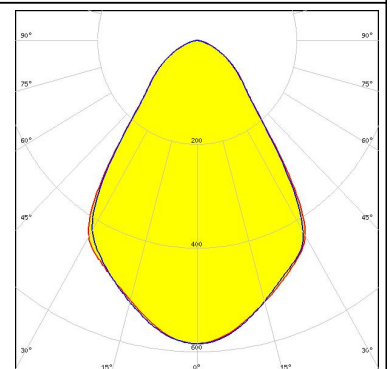
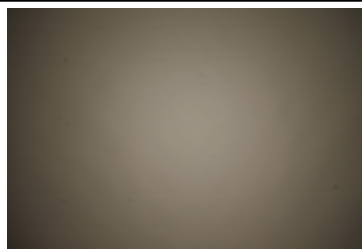
Efficiency 89 %

Peak intensity 0.600 cd/lm

Required components:

C12691_LENINA-STD-BASE-CLL030

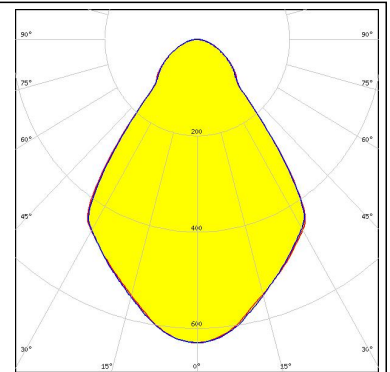
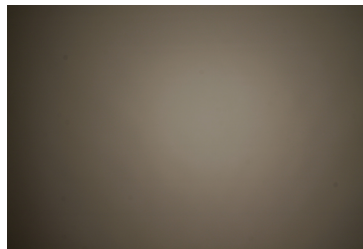
C12606_LENINA-DL



PHOTOMETRIC DATA (MEASURED):

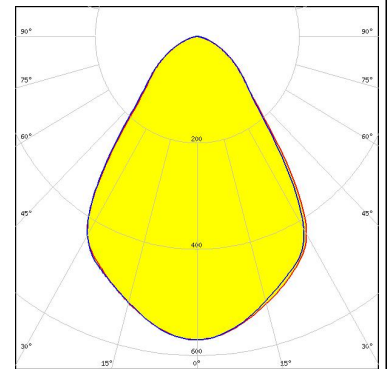
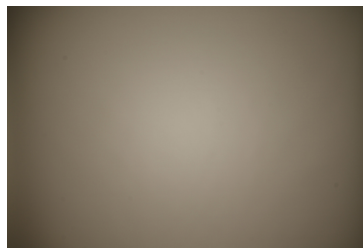
SAMSUNG

LED COB D Series LES 14.5 mm
FWHM 74.0°
Efficiency 94 %
Peak intensity 0.630 cd/lm
Required components:
C12691_LENINA-STD-BASE-CLL030



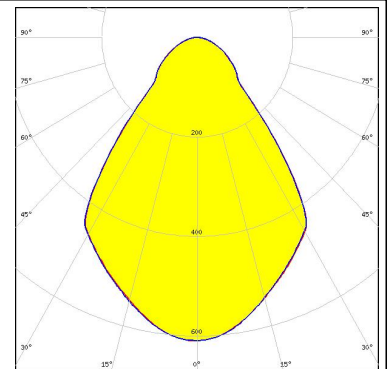
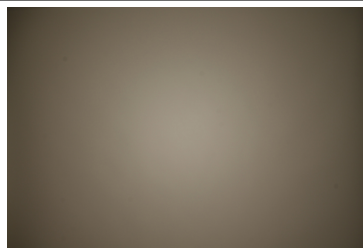
SAMSUNG

LED LC026B / 033B / 040B
FWHM 74.0°
Efficiency 90 %
Peak intensity 0.570 cd/lm
Required components:
C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 450 Typ L2



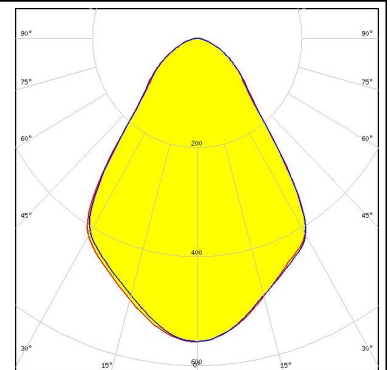
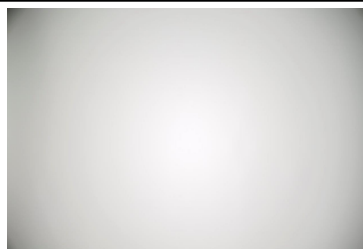
SAMSUNG

LED LC026B / 033B / 040B
FWHM 75.0°
Efficiency 94 %
Peak intensity 0.610 cd/lm
Required components:
C13868_LENINA-STD-BASE-VERO13-18
Bender Wirth: 450 Typ L2


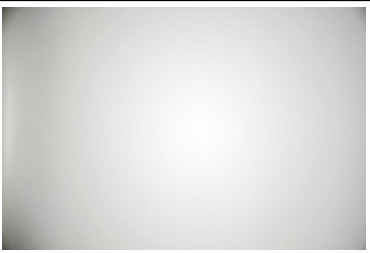
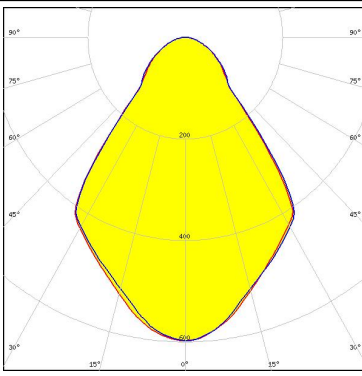


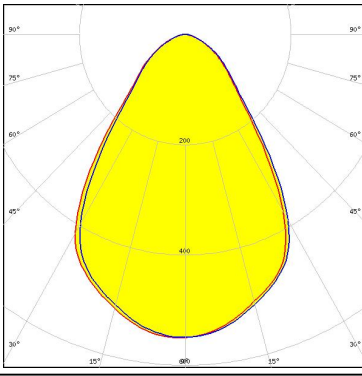


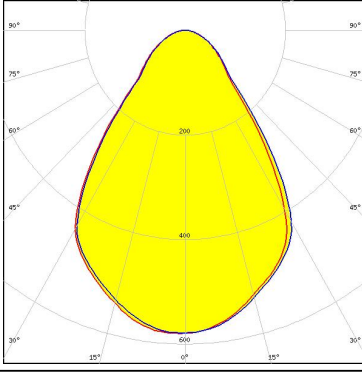


SEOL SEMICONDUCTOR

LED ZC12/18
FWHM 73.0°
Efficiency 86 %
Peak intensity 0.560 cd/lm
Required components:
C12691_LENINA-STD-BASE-CLL030
C12606_LENINA-DL



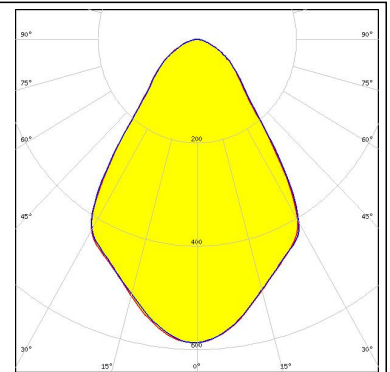
PHOTOMETRIC DATA (MEASURED):

<p> SEOUL SEMICONDUCTOR</p> <p>LED ZC12/18 FWHM 75.0° Efficiency 90 % Peak intensity 0.600 cd/lm Required components: C12691_LENINA-STD-BASE-CLL030</p>		
<p> SEOUL SEMICONDUCTOR</p> <p>LED ZC25/40/60 FWHM 72.0° Efficiency 85 % Peak intensity 0.600 cd/lm Required components: C12692_LENINA-STD-BASE-CLL040 C12606_LENINA-DL</p>		
<p> SEOUL SEMICONDUCTOR</p> <p>LED ZC25/40/60 FWHM 73.0° Efficiency 89 % Peak intensity 0.600 cd/lm Required components: C12692_LENINA-STD-BASE-CLL040</p>		
<p>SHARP</p> <p>LED Mega Zenigata (GW5DGC) FWHM 73.0° Efficiency 90 % Peak intensity 0.630 cd/lm Required components: C12292_LENINA-STD-BASE-MEZ</p>		

PHOTOMETRIC DATA (MEASURED):

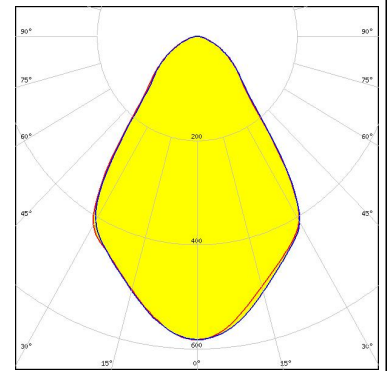
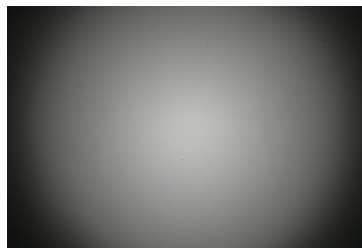
SHARP

LED Mega Zenigata (GW5DGC)
FWHM 72.0°
Efficiency 86 %
Peak intensity 0.588 cd/lm
Required components:
C12292_LENINA-STD-BASE-MEZ
C12606_LENINA-DL



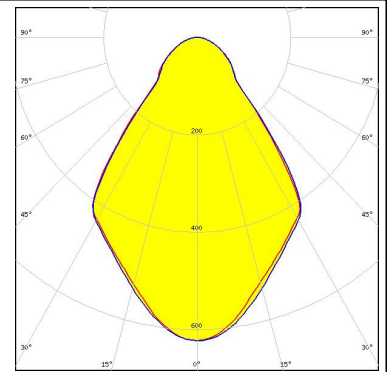
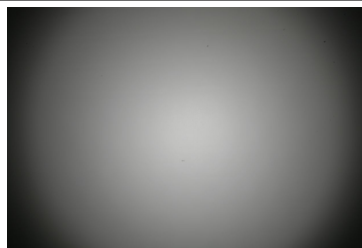
SHARP

LED Mega Zenigata (GW6DME)
FWHM 72.0°
Efficiency 85 %
Peak intensity 0.580 cd/lm
Required components:
C12292_LENINA-STD-BASE-MEZ
C12606_LENINA-DL



SHARP

LED Mega Zenigata (GW6DME)
FWHM 73.0°
Efficiency 89 %
Peak intensity 0.620 cd/lm
Required components:
C12292_LENINA-STD-BASE-MEZ



PHOTOMETRIC DATA (SIMULATED):

<p>bridgelux.</p> <p>LED V10 Gen7</p> <p>FWHM 71.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 0.720 cd/lm</p> <p>Required components: C13868_LENINA-STD-BASE-VERO13-18 Bender Wirth: 434 Typ L1</p>	
<p>bridgelux.</p> <p>LED V13 Gen7</p> <p>FWHM 70.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 0.603 cd/lm</p> <p>Required components: C12606_LENINA-DL IDEAL: 50-2103CT + 50-2100AN</p>	
<p>bridgelux.</p> <p>LED V13 Gen7</p> <p>FWHM 73.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 0.600 cd/lm</p> <p>Required components: C13868_LENINA-STD-BASE-VERO13-18 Bender Wirth: 477 Typ L1</p>	
<p>bridgelux.</p> <p>LED V13 Gen7</p> <p>FWHM 72.0°</p> <p>Efficiency 82 %</p> <p>Peak intensity 0.570 cd/lm</p> <p>Required components: C13868_LENINA-STD-BASE-VERO13-18 C12606_LENINA-DL Bender Wirth: 477 Typ L1</p>	

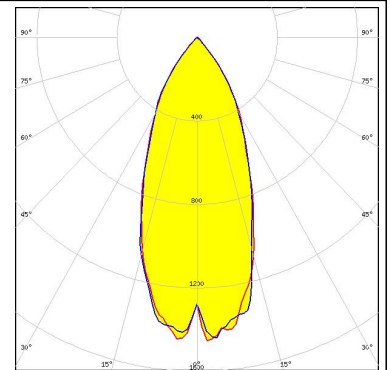
PHOTOMETRIC DATA (SIMULATED):



LED V22 Gen7
FWHM 60.0°
Efficiency 89 %
Peak intensity 0.000 cd/lm

Required components:

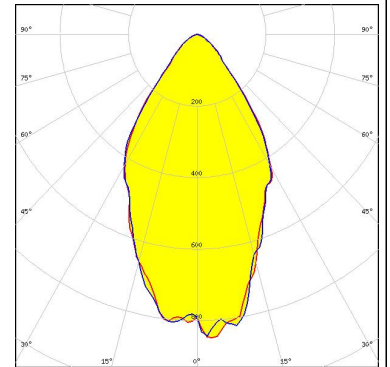
C13867_LENINA-STD-BASE-VERO29
Bender Wirth: 431 Typ L3



LED V22 Gen7
FWHM 60.0°
Efficiency 85 %
Peak intensity 0.894 cd/lm

Required components:

C13867_LENINA-STD-BASE-VERO29
C12606_LENINA-DL
Bender Wirth: 431 Typ L3



LED CXM-14
FWHM 74.0°
Efficiency 89 %
Peak intensity 0.580 cd/lm

Required components:

C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 433 Typ L1



LED CXM-14
FWHM 75.0°
Efficiency 94 %
Peak intensity 0.620 cd/lm

Required components:

C13868_LENINA-STD-BASE-VERO13-18
Bender Wirth: 433 Typ L1

PHOTOMETRIC DATA (SIMULATED):



LED CXM-9
FWHM 73.0°
Efficiency 89 %
Peak intensity 0.590 cd/lm

Required components:

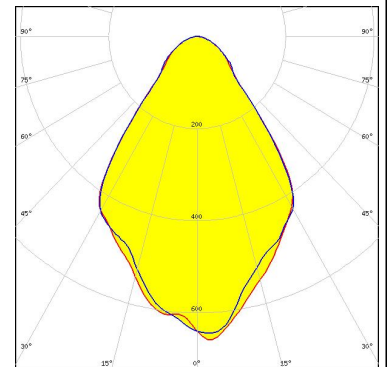
C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 434 Typ L1



LED Soleriq S15
FWHM 72.0°
Efficiency 87 %
Peak intensity 0.660 cd/lm

Required components:

C12691_LENINA-STD-BASE-CLL030
TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



SEOUL SEMICONDUCTOR

LED ZC12/18
FWHM 74.0°
Efficiency 89 %
Peak intensity 0.580 cd/lm

Required components:

C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 433 Typ L1



SEOUL SEMICONDUCTOR

LED ZC12/18
FWHM 75.0°
Efficiency 94 %
Peak intensity 0.620 cd/lm

Required components:

C13868_LENINA-STD-BASE-VERO13-18
Bender Wirth: 433 Typ L1

PHOTOMETRIC DATA (SIMULATED):



SEOUL SEMICONDUCTOR

LED	ZC4/6
FWHM	73.0°
Efficiency	89 %
Peak intensity	0.590 cd/lm

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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