

LENINA-XW

White version with ~75° wide beam

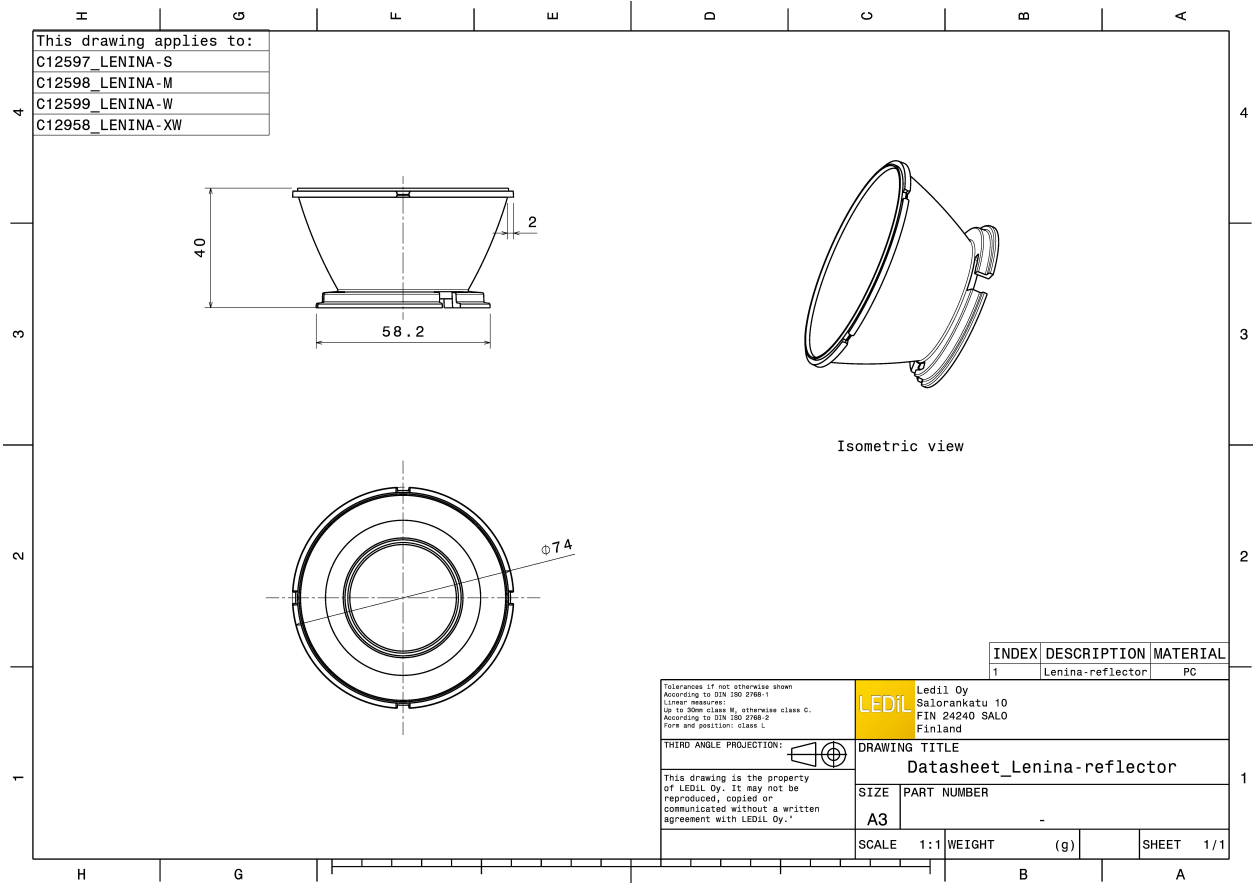
TECHNICAL SPECIFICATIONS:

Dimensions	Ø 74 mm
Height	40 mm
Fastening	
Colour	white
Box size	476 x 273 x 197 mm
Box weight	2 kg
Quantity in Box	60 pcs
ROHS compliant	yes ⓘ

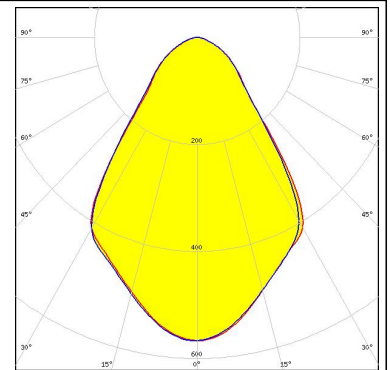
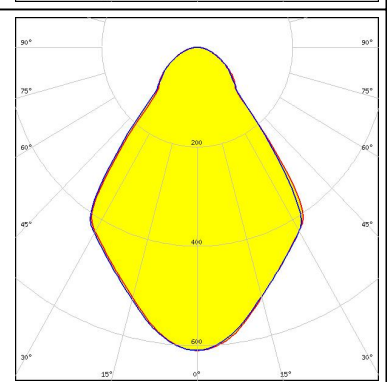


MATERIAL SPECIFICATIONS:


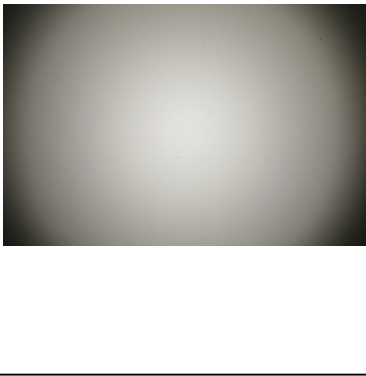
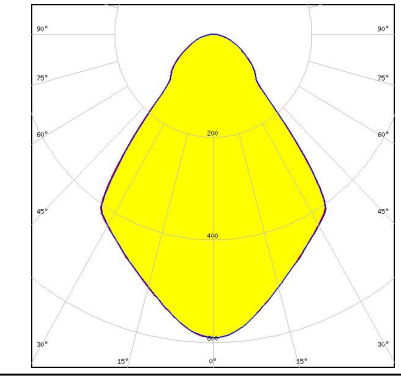
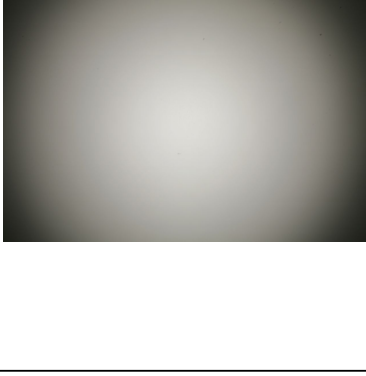
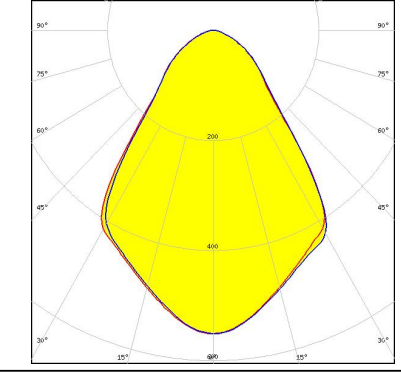
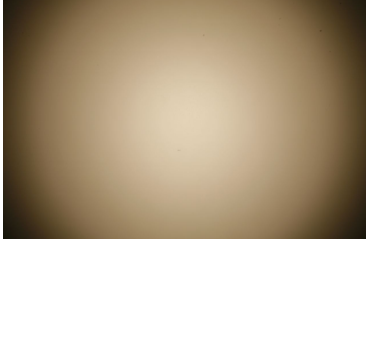
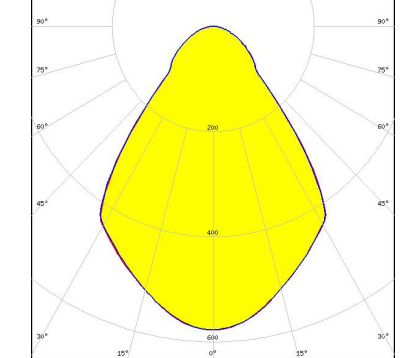
Component	Type	Material	Colour	Coating
LENINA-XW	Reflector	HRPC	white	




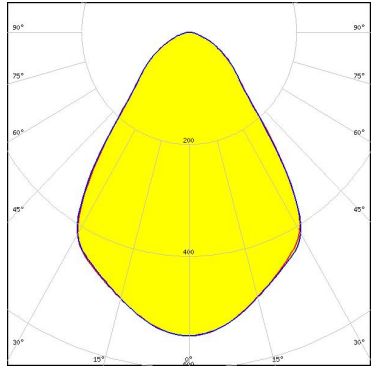
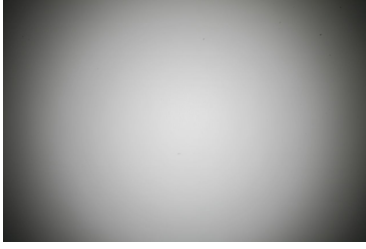
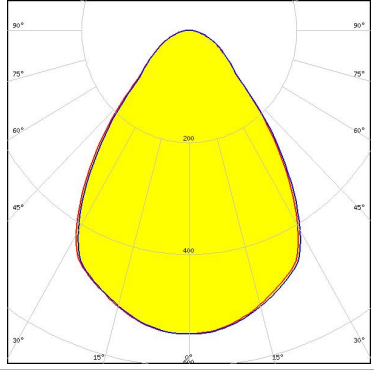
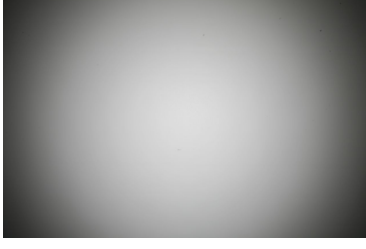
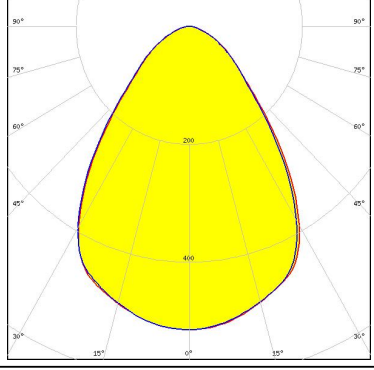
PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED BXRA ES Rectangle FWHM 73.0° Efficiency 84 % Peak intensity 0.570 cd/lm Required components: C12153_LENINA-STD-BASE-BXRA C12606_LENINA-DL LEDiL: LEDiL</p>	
<p>bridgelux.</p> <p>LED BXRA ES Rectangle FWHM 74.0° Efficiency 89 % Peak intensity 0.610 cd/lm Required components: C12153_LENINA-STD-BASE-BXRA LEDiL: LEDiL</p>	
<p>bridgelux.</p> <p>LED BXRA RS FWHM 76.0° Efficiency 91 % Peak intensity 0.570 cd/lm Required components: C12229_LENINA-STD-BASE-RS</p>	
<p>bridgelux.</p> <p>LED BXRA RS FWHM 87.0° Efficiency 87 % Peak intensity 0.539 cd/lm Required components: C12229_LENINA-STD-BASE-RS C12606_LENINA-DL</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 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>		
<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 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>		

PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED VERO18 FWHM 75.0° Efficiency 87 % Peak intensity 0.540 cd/lm Required components: C13868_LENINA-STD-BASE-VERO13-18 C12606_LENINA-DL</p>		
<p>bridgelux.</p> <p>LED VERO29 FWHM 77.0° Efficiency 91 % Peak intensity 0.540 cd/lm Required components: C13867_LENINA-STD-BASE-VERO29</p>		
<p>bridgelux.</p> <p>LED VERO29 FWHM 77.0° Efficiency 87 % Peak intensity 0.520 cd/lm Required components: C13867_LENINA-STD-BASE-VERO29 C12606_LENINA-DL</p>		
<p>CITIZEN</p> <p>LED CL-L340 FWHM 71.0° Efficiency 82 % Peak intensity 0.575 cd/lm Required components: C11995_LENINA-STD-BASE-CL340 C12606_LENINA-DL</p>		

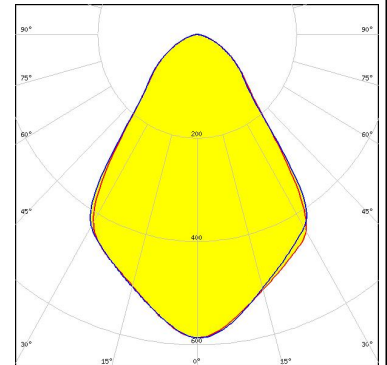
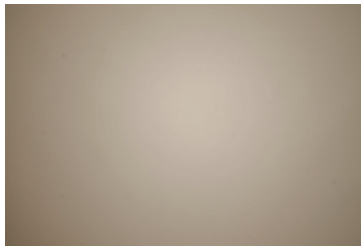
PHOTOMETRIC DATA (MEASURED):

CITIZEN

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

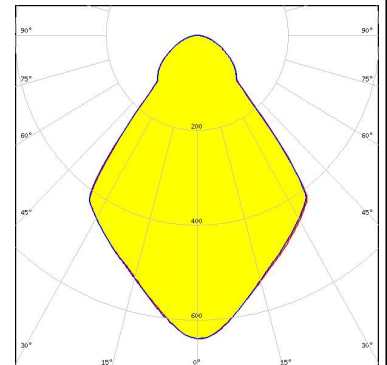
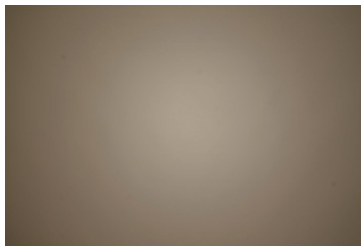
CITIZEN

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



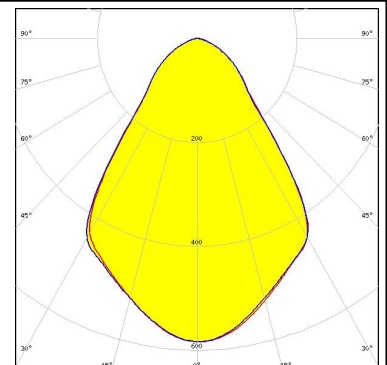
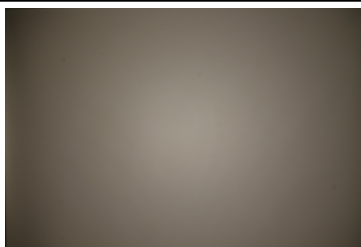
CITIZEN

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



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



PHOTOMETRIC DATA (MEASURED):

CITIZEN

LED CLL03x/CLU03x

FWHM 72.0°

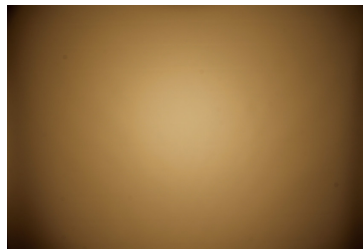
Efficiency 88 %

Peak intensity 0.610 cd/lm

Required components:

C12691_LENINA-STD-BASE-CLL030

C12606_LENINA-DL



CITIZEN

LED CLL03x/CLU03x

FWHM 75.0°

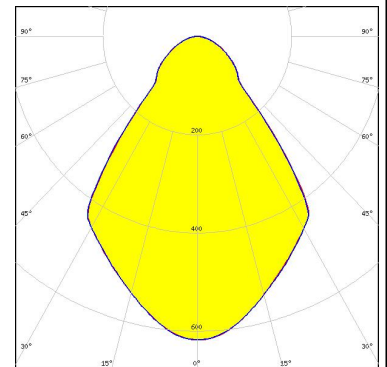
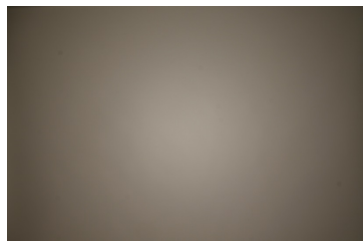
Efficiency 94 %

Peak intensity 0.620 cd/lm

Required components:

C13868_LENINA-STD-BASE-VERO13-18

Bender Wirth: 433 Typ L1



CITIZEN

LED CLL03x/CLU03x

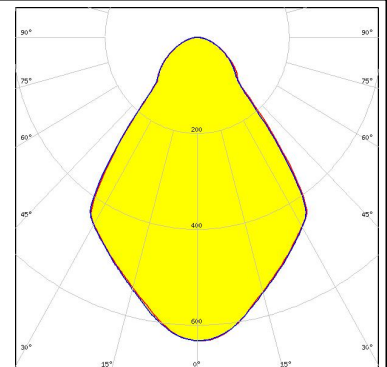
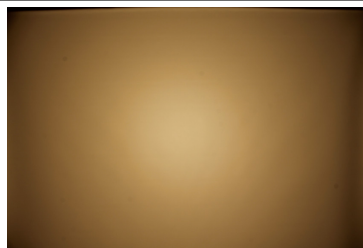
FWHM 74.0°

Efficiency 93 %

Peak intensity 0.630 cd/lm

Required components:

C12691_LENINA-STD-BASE-CLL030



CITIZEN

LED CLL04x/CLU04x

FWHM 73.0°

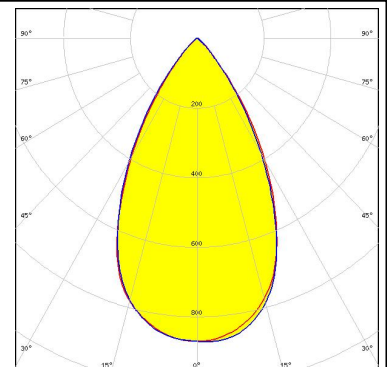
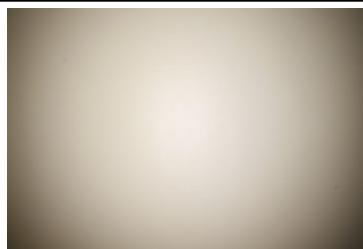
Efficiency 81 %

Peak intensity 0.500 cd/lm

Required components:

C12606_LENINA-DL

A.A.G. STUCCHI: 8102/G2 + S-8000/12



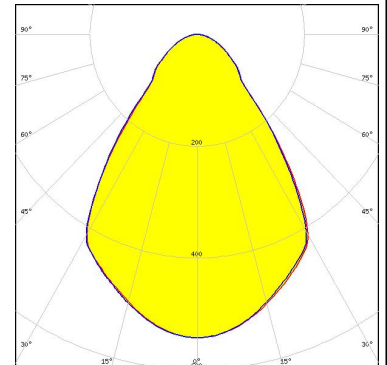
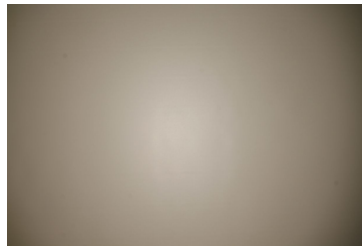
PHOTOMETRIC DATA (MEASURED):

CITIZEN

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

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

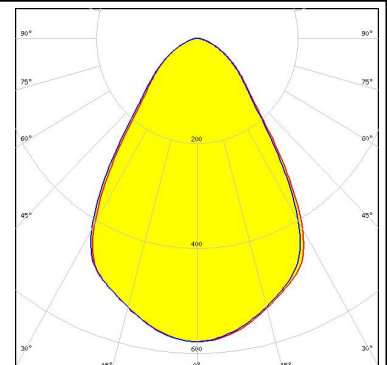
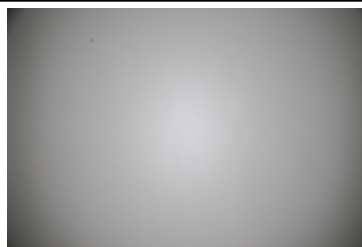


CITIZEN

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

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



PHOTOMETRIC DATA (MEASURED):

CITIZEN

LED CLL04x/CLU04x

FWHM 75.0°

Efficiency 89 %

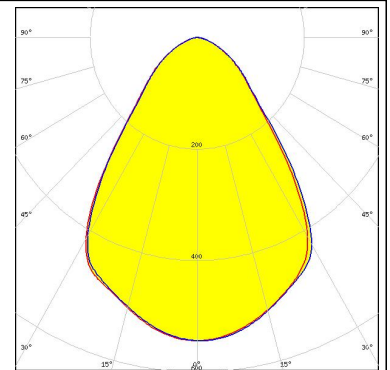
Peak intensity 0.540 cd/lm

Required components:

C13867_LENINA-STD-BASE-VERO29

C12606_LENINA-DL

Bender Wirth: 431 Typ L3



CITIZEN

LED CLL04x/CLU04x

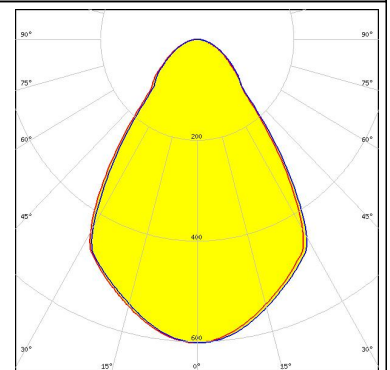
FWHM 72.0°

Efficiency 91 %

Peak intensity 0.600 cd/lm

Required components:

IDEAL: 50-2204CT + 50-2100LN



CITIZEN

LED CLL04x/CLU04x

FWHM 75.0°

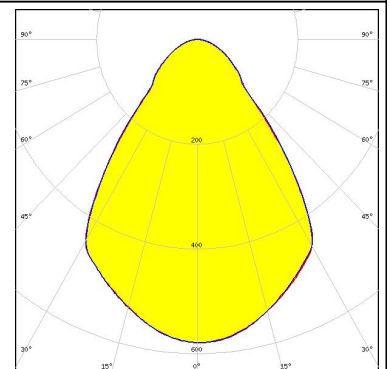
Efficiency 93 %

Peak intensity 0.580 cd/lm

Required components:

C13867_LENINA-STD-BASE-VERO29

Bender Wirth: 431 Typ L3



CITIZEN

LED CLU700/701

FWHM 75.0°

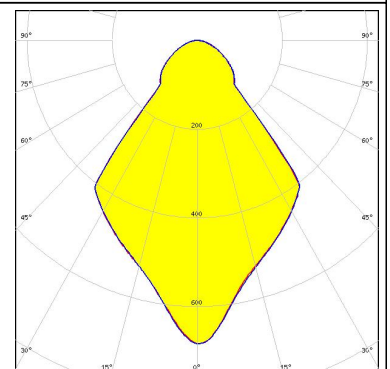
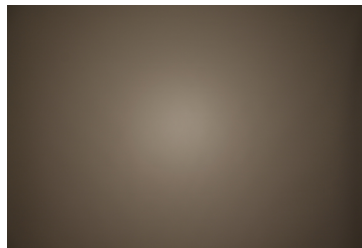
Efficiency 93 %

Peak intensity 0.680 cd/lm

Required components:

C13868_LENINA-STD-BASE-VERO13-18

Bender Wirth: 434 Typ L1



PHOTOMETRIC DATA (MEASURED):

CITIZEN

LED CLU700/701

FWHM 73.0°

Efficiency 89 %

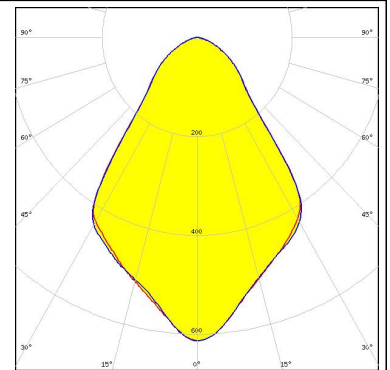
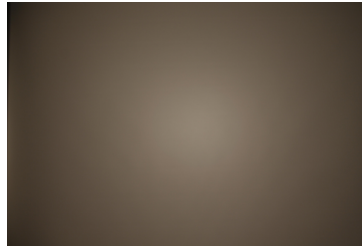
Peak intensity 0.610 cd/lm

Required components:

C13868_LENINA-STD-BASE-VERO13-18

C12606_LENINA-DL

Bender Wirth: 434 Typ L1



CITIZEN

LED CLU710/711

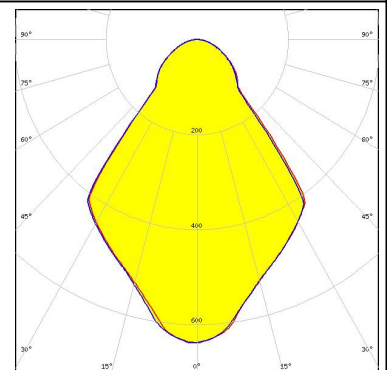
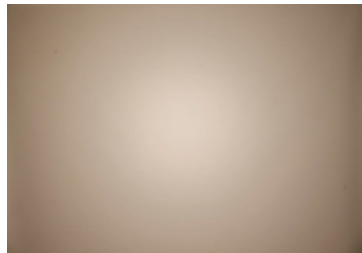
FWHM 75.0°

Efficiency 94 %

Peak intensity 0.640 cd/lm

Required components:

C12691_LENINA-STD-BASE-CLL030



CITIZEN

LED CLU710/711

FWHM 73.0°

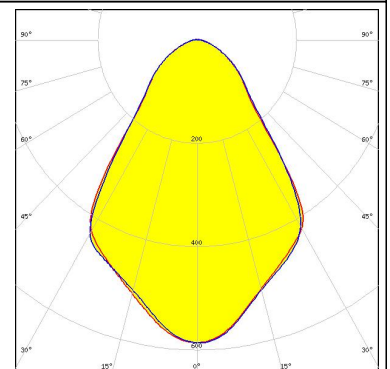
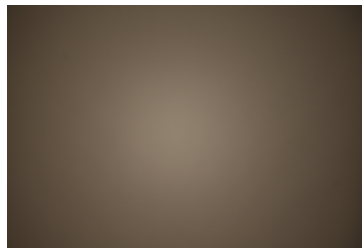
Efficiency 90 %

Peak intensity 0.590 cd/lm

Required components:

C12691_LENINA-STD-BASE-CLL030

C12606_LENINA-DL



CITIZEN

LED CLU720/721

FWHM 73.0°

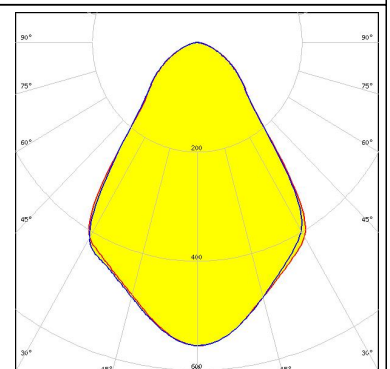
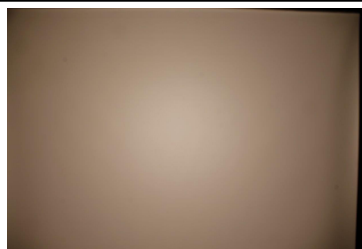
Efficiency 85 %

Peak intensity 0.560 cd/lm

Required components:

C12691_LENINA-STD-BASE-CLL030

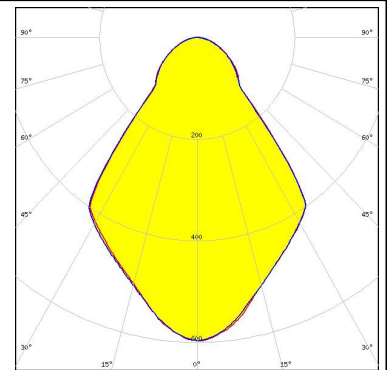
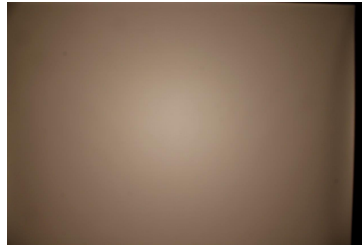
C12606_LENINA-DL



PHOTOMETRIC DATA (MEASURED):

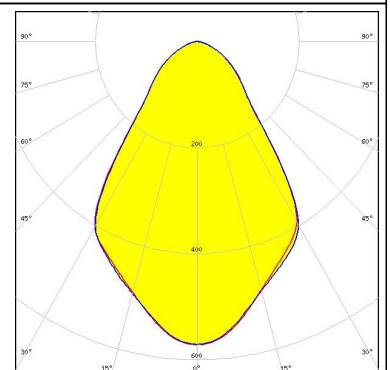
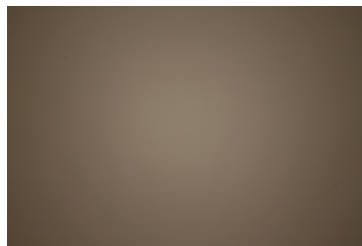
CITIZEN

LED CLU720/721
FWHM 74.0°
Efficiency 89 %
Peak intensity 0.600 cd/lm
Required components:
C12691_LENINA-STD-BASE-CLL030



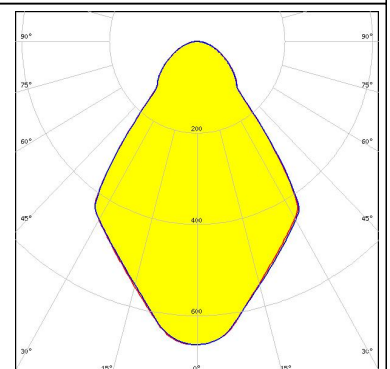
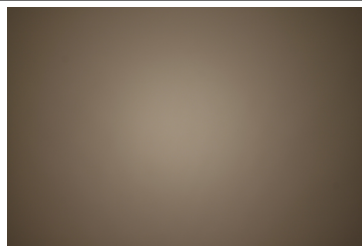
CITIZEN

LED CLU730/731
FWHM 71.0°
Efficiency 84 %
Peak intensity 0.570 cd/lm
Required components:
C12692_LENINA-STD-BASE-CLL040
C12606_LENINA-DL



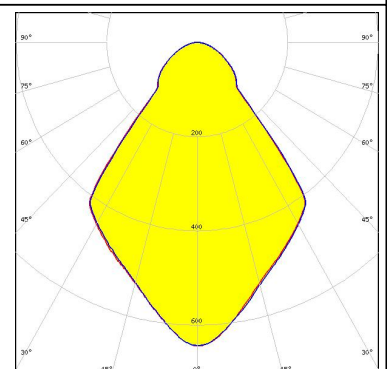
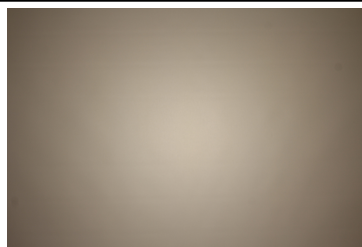
CITIZEN

LED CLU730/731
FWHM 72.0°
Efficiency 94 %
Peak intensity 0.660 cd/lm
Required components:
C12692_LENINA-STD-BASE-CLL040



CREE

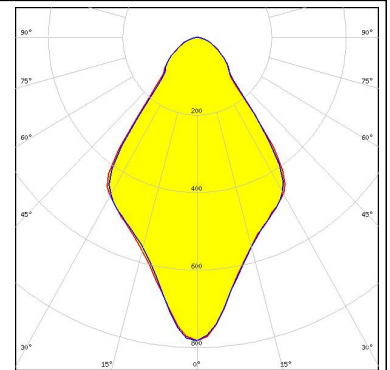
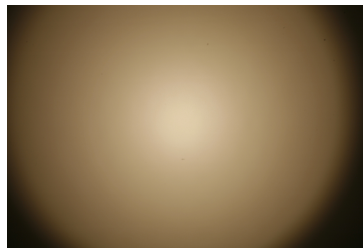
LED CXA/B 15xx
FWHM 75.0°
Efficiency 93 %
Peak intensity 0.640 cd/lm
Required components:
C13868_LENINA-STD-BASE-VERO13-18
Bender Wirth: 441 Typ L1



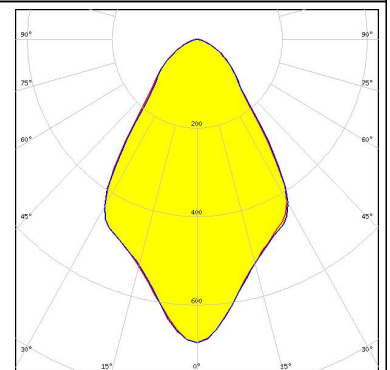
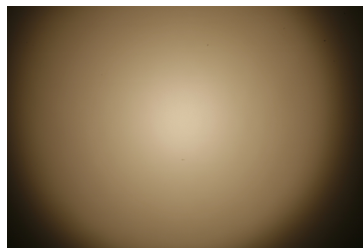
PHOTOMETRIC DATA (MEASURED):



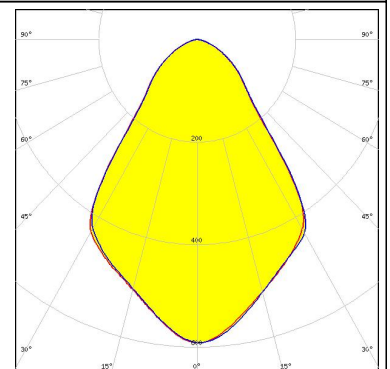
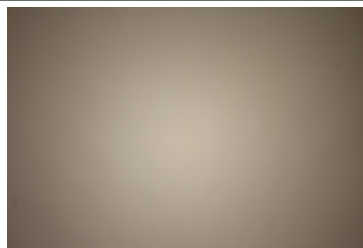
LED CXA/B 15xx
 FWHM 70.0°
 Efficiency 91 %
 Peak intensity 0.800 cd/lm
 Required components:
 C13186_LENINA-STD-BASE-CXA15



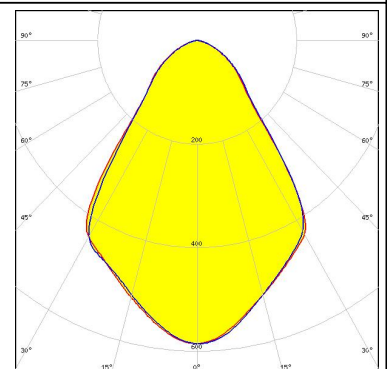
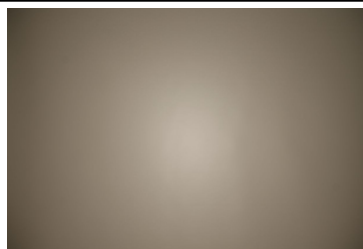
LED CXA/B 15xx
 FWHM 69.0°
 Efficiency 86 %
 Peak intensity 0.700 cd/lm
 Required components:
 C13186_LENINA-STD-BASE-CXA15
 C12606_LENINA-DL



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



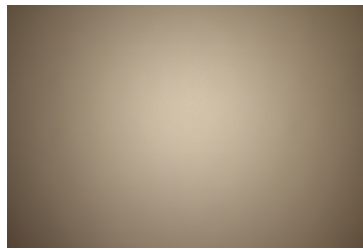
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
 FWHM 74.0°
 Efficiency 89 %
 Peak intensity 0.590 cd/lm
 Required components:
 C13868_LENINA-STD-BASE-VERO13-18
 C12606_LENINA-DL
 Bender Wirth: 437 Typ L1



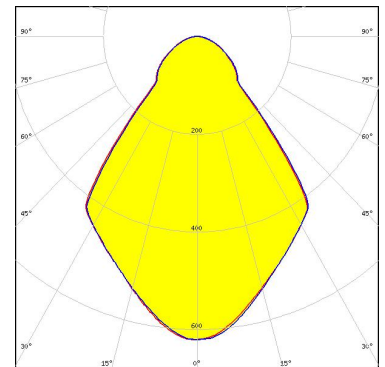
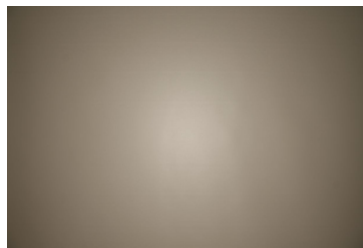
PHOTOMETRIC DATA (MEASURED):



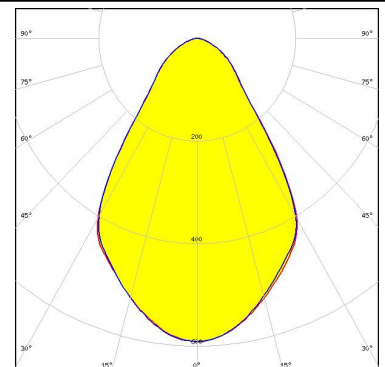
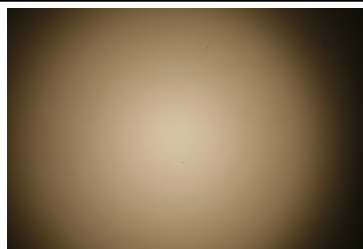
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM 73.0°
Efficiency 94 %
Peak intensity 0.790 cd/lm
Required components:
C14146_LENINA-STD-BASE-CXA18



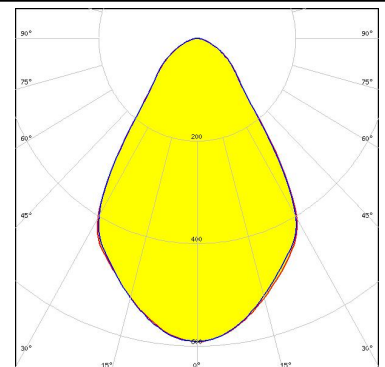
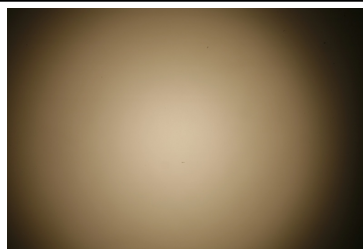
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM 75.0°
Efficiency 93 %
Peak intensity 0.620 cd/lm
Required components:
C13868_LENINA-STD-BASE-VERO13-18
Bender Wirth: 437 Typ L1



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
C12606_LENINA-DL



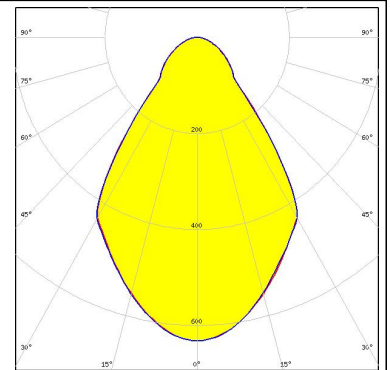
LED CXA/B 25xx
FWHM 70.0°
Efficiency 84 %
Peak intensity 0.600 cd/lm
Required components:
C13324_LENINA-STD-BASE-CXA25
C12606_LENINA-DL



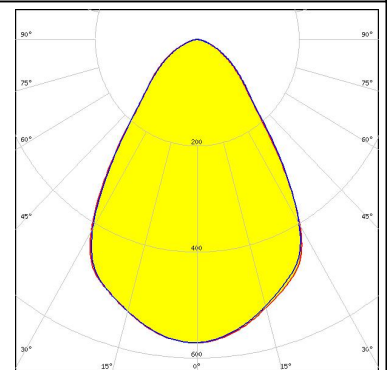
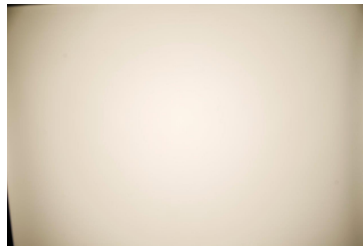
PHOTOMETRIC DATA (MEASURED):



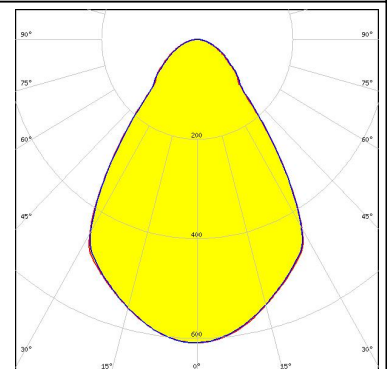
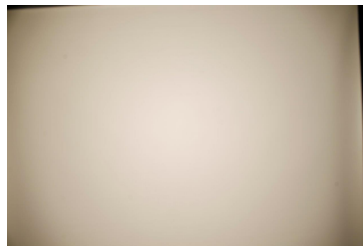
LED CXA/B 25xx
FWHM 70.0°
Efficiency 89 %
Peak intensity 0.700 cd/lm
Required components:
C13324_LENINA-STD-BASE-CXA25



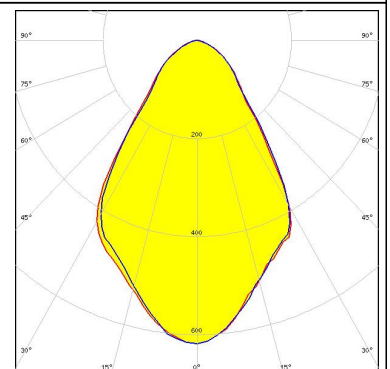
LED CXA/B 30xx
FWHM 77.0°
Efficiency 87 %
Peak intensity 0.600 cd/lm
Required components:
C12606_LENINA-DL
IDEAL: 50-2234C + 50-2100LN



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



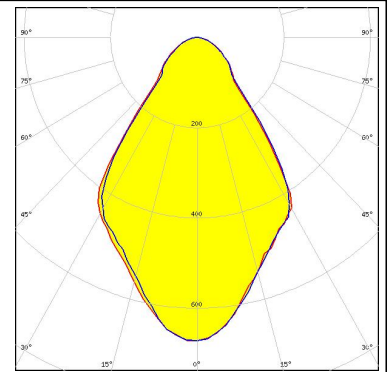
LED CXA2011
FWHM 70.0°
Efficiency 82 %
Peak intensity 0.600 cd/lm
Required components:
C12105_LENINA-STD-BASE-CXA20
C12606_LENINA-DL



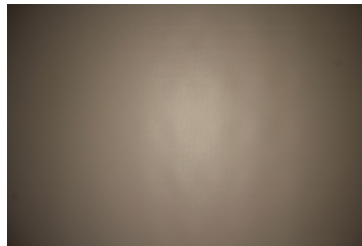
PHOTOMETRIC DATA (MEASURED):



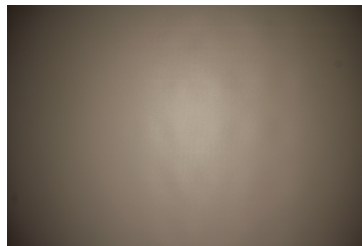
LED CXA2011
FWHM 72.0°
Efficiency 87 %
Peak intensity 0.700 cd/lm
Required components:
C12105_LENINA-STD-BASE-CXA20



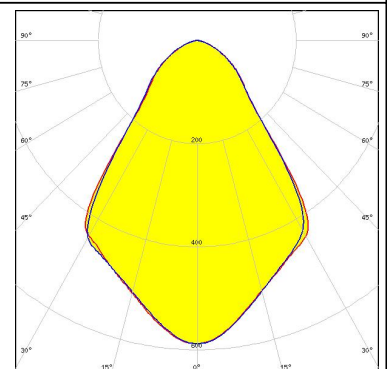
LED CHI3030 19W
FWHM 75.0°
Efficiency 94 %
Peak intensity 0.550 cd/lm
Required components:
C13867_LENINA-STD-BASE-VERO29
C12606_LENINA-DL
Bender Wirth: 468 Typ L3



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



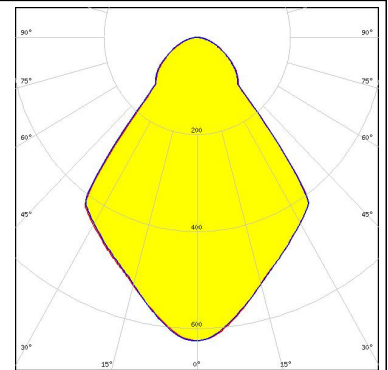
LED LUXEON CoB 1202/1203
FWHM 74.0°
Efficiency 89 %
Peak intensity 0.590 cd/lm
Required components:
C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 438 Typ L1



PHOTOMETRIC DATA (MEASURED):

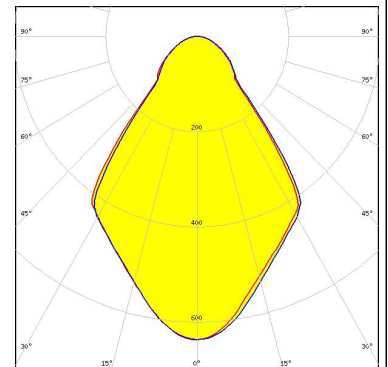
LUMILEDS

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



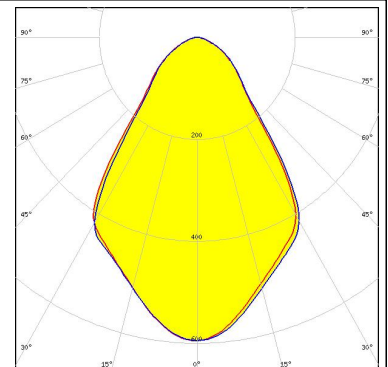
LUMILEDS

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



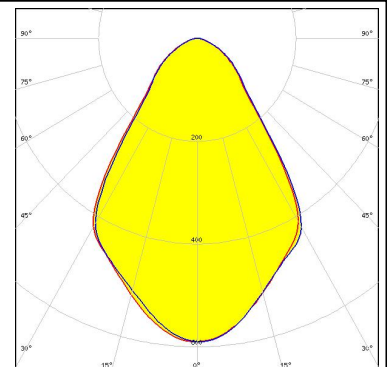
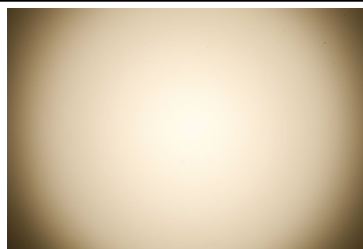
LUMILEDS

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



LUMILEDS

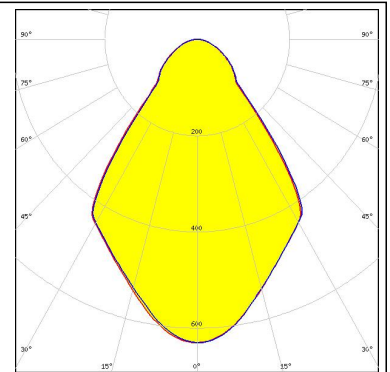
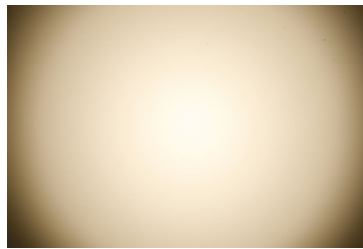
LED LUXEON CoB 1208
FWHM 72.0°
Efficiency 86 %
Peak intensity 0.600 cd/lm
Required components:
C12292_LENINA-STD-BASE-MEZ
C12606_LENINA-DL



PHOTOMETRIC DATA (MEASURED):

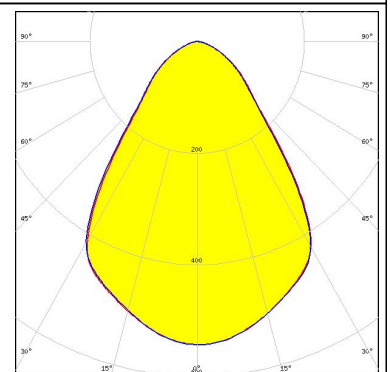
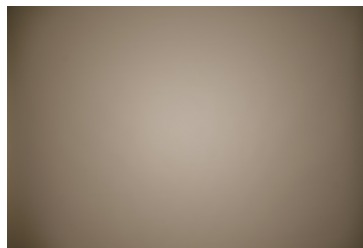
LUMILEDS

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



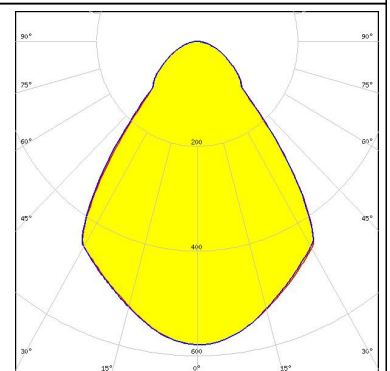
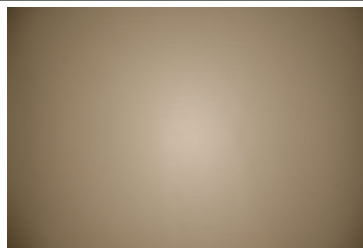
LUMILEDS

LED LUXEON CoB 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



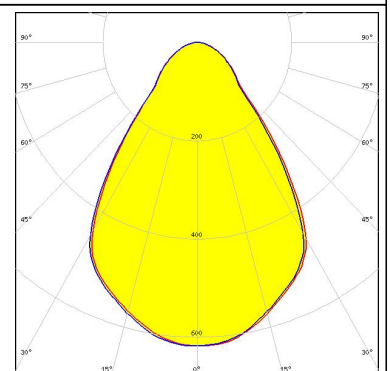
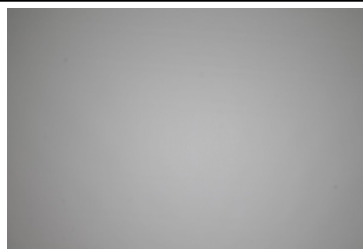
LUMILEDS

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


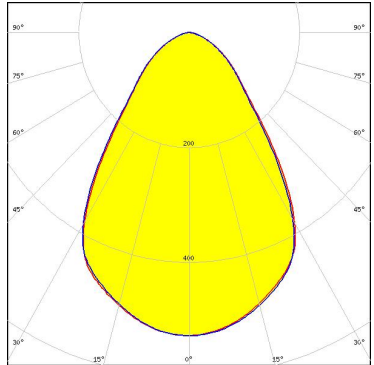
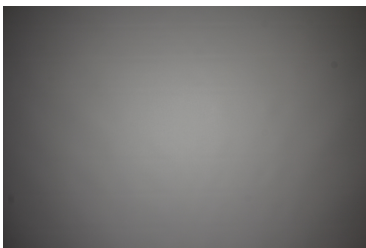
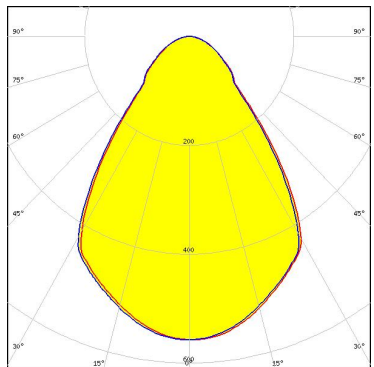

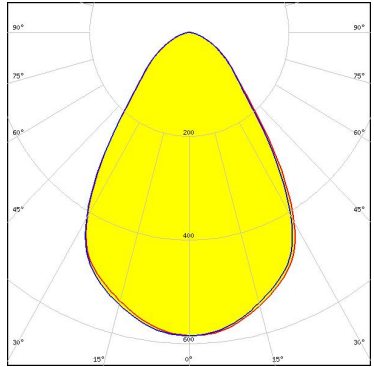
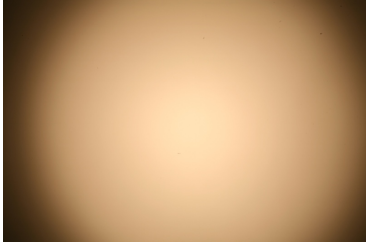
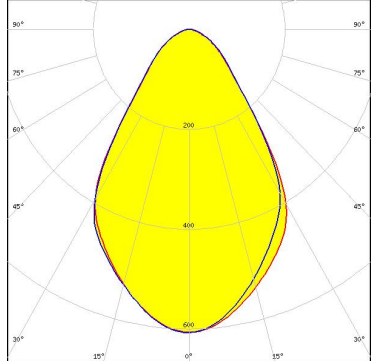


LUMILEDS

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



PHOTOMETRIC DATA (MEASURED):

<p>LUMILEDS</p> <p>LED LUXEON CoB 1216/1812</p> <p>FWHM 73.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 0.530 cd/lm</p> <p>Required components: C12606_LENINA-DL A.A.G. STUCCHI: 8102/G2 + S-8000/12</p>		
<p>LUMILEDS</p> <p>LED LUXEON CoB 1216/1812</p> <p>FWHM 74.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 0.560 cd/lm</p> <p>Required components: A.A.G. STUCCHI: 8102/G2 + S-8000/12</p>		
<p>LUMILEDS</p> <p>LED LUXEON CoB 1216/1812</p> <p>FWHM 72.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 0.590 cd/lm</p> <p>Required components: C12692_LENINA-STD-BASE-CLL040 C12606_LENINA-DL LEDiL: LEDiL</p>		
<p>LUMILEDS</p> <p>LED LUXEON K12</p> <p>FWHM 68.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 0.600 cd/lm</p> <p>Required components: C12924_LENINA-STD-BASE-LUXEON-K C12606_LENINA-DL</p>		

PHOTOMETRIC DATA (MEASURED):

LUMILEDS

LED LUXEON K12

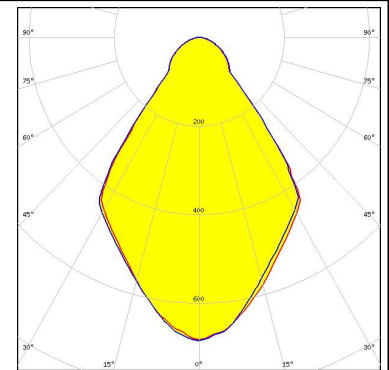
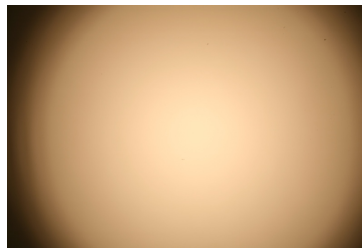
FWHM 72.0°

Efficiency 90 %

Peak intensity 0.700 cd/lm

Required components:

C12924_LENINA-STD-BASE-LUXEON-K



LUMILEDS

LED LUXEON K16

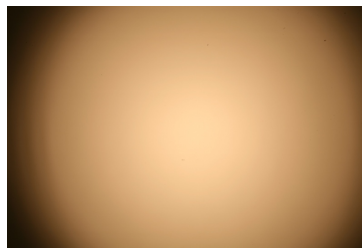
FWHM 72.0°

Efficiency 86 %

Peak intensity 0.640 cd/lm

Required components:

C12924_LENINA-STD-BASE-LUXEON-K



LUMILEDS

LED LUXEON K16

FWHM 68.0°

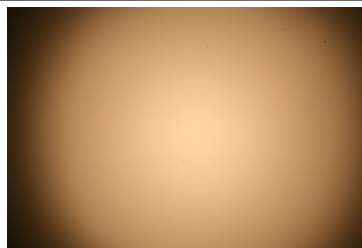
Efficiency 80 %

Peak intensity 0.600 cd/lm

Required components:

C12924_LENINA-STD-BASE-LUXEON-K

C12606_LENINA-DL



LUMINUS

LED CXM-14

FWHM 74.0°

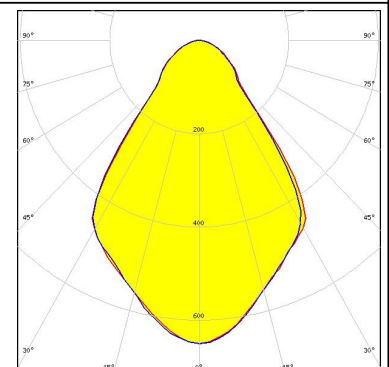
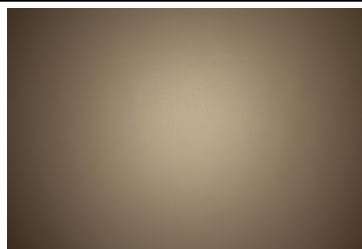
Efficiency 94 %

Peak intensity 0.650 cd/lm

Required components:

C12691_LENINA-STD-BASE-CLL030

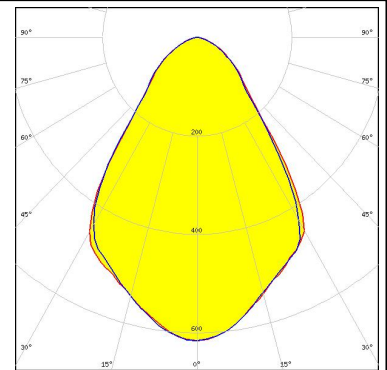
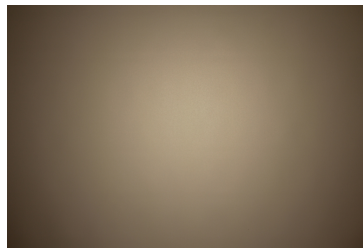
LEDiL: LEDiL



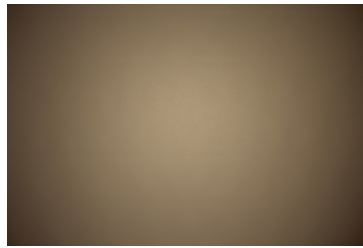
PHOTOMETRIC DATA (MEASURED):



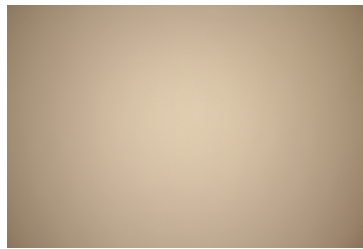
LED CXM-14
FWHM 73.0°
Efficiency 91 %
Peak intensity 0.620 cd/lm
Required components:
C12691_LENINA-STD-BASE-CLL030
C12606_LENINA-DL
LEDiL: LEDiL



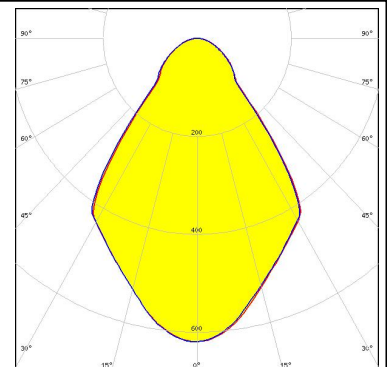
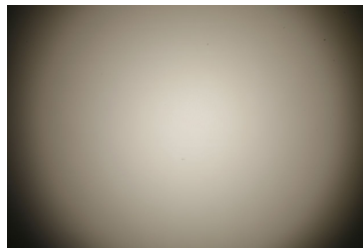
LED CXM-22
FWHM 73.0°
Efficiency 91 %
Peak intensity 0.600 cd/lm
Required components:
C12692_LENINA-STD-BASE-CLL040
C12606_LENINA-DL



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



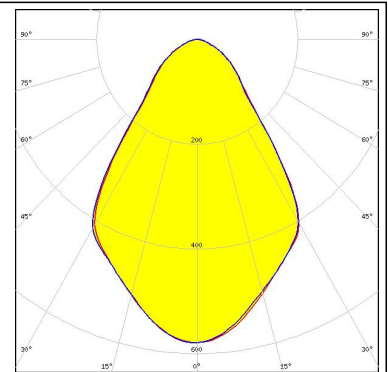
LED COB J-Type
FWHM 73.0°
Efficiency 89 %
Peak intensity 0.620 cd/lm
Required components:
C12292_LENINA-STD-BASE-MEZ



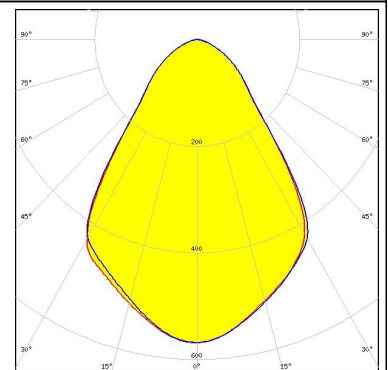
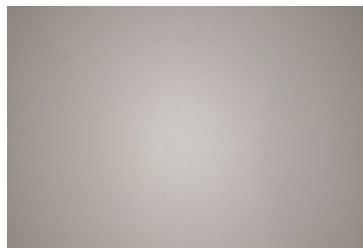
PHOTOMETRIC DATA (MEASURED):



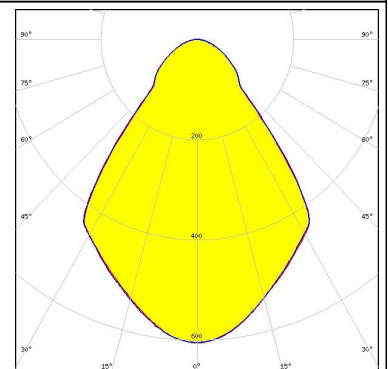
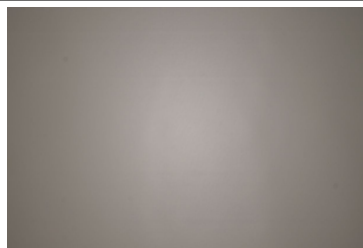
LED COB J-Type
 FWHM 72.0°
 Efficiency 84 %
 Peak intensity 0.580 cd/lm
 Required components:
 C12292_LENINA-STD-BASE-MEZ
 C12606_LENINA-DL



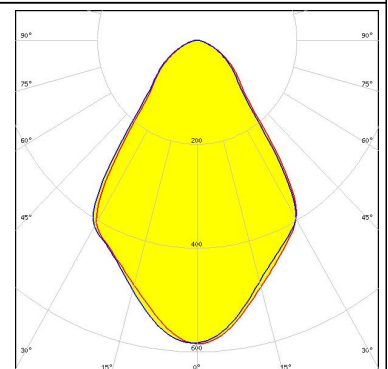
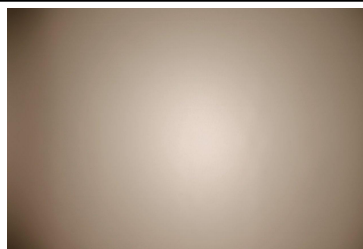
LED COB J-Type
 FWHM 74.0°
 Efficiency 89 %
 Peak intensity 0.600 cd/lm
 Required components:
 C13868_LENINA-STD-BASE-VERO13-18
 C12606_LENINA-DL
 Bender Wirth: 463 Typ L2




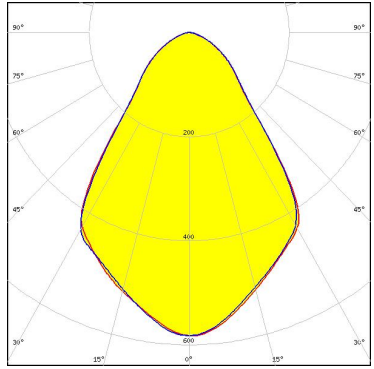
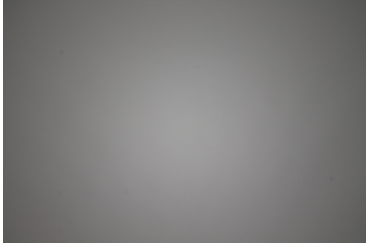
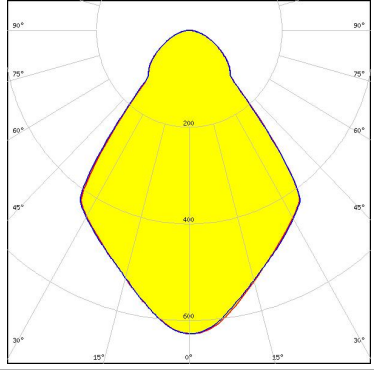
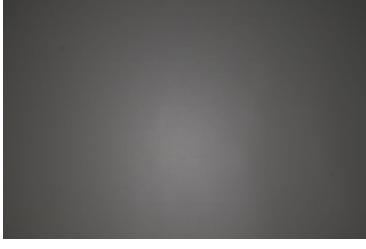
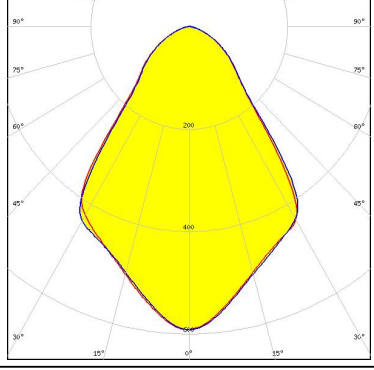
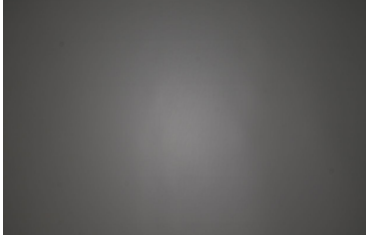
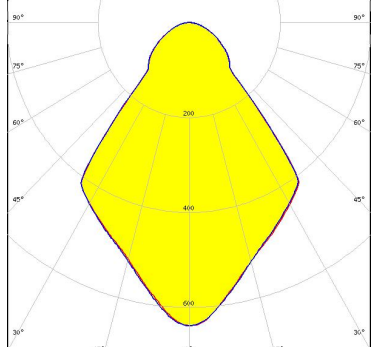
LED COB J-Type
 FWHM 76.0°
 Efficiency 94 %
 Peak intensity 0.610 cd/lm
 Required components:
 C13868_LENINA-STD-BASE-VERO13-18
 Bender Wirth: 463 Typ L2



LED COB L-Type (LES 11)
 FWHM 71.0°
 Efficiency 82 %
 Peak intensity 0.600 cd/lm
 Required components:
 C11981_LENINA-STD-BASE-COB-L110
 C12606_LENINA-DL



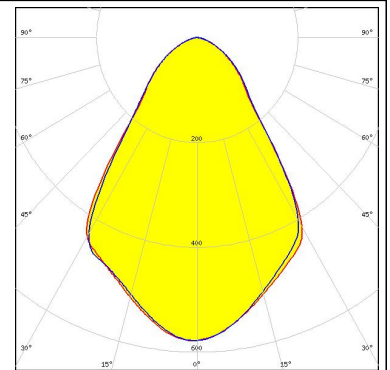
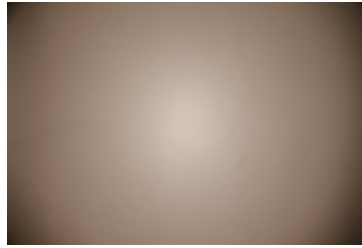
PHOTOMETRIC DATA (MEASURED):

<p>NICHIA</p> <p>LED COB L-Type (LES 11)</p> <p>FWHM 73.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 0.580 cd/lm</p> <p>Required components:</p> <p>C13868_LENINA-STD-BASE-VERO13-18</p> <p>C12606_LENINA-DL</p> <p>Bender Wirth: 438 Typ L1</p>		
<p>NICHIA</p> <p>LED COB L-Type (LES 11)</p> <p>FWHM 75.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 0.630 cd/lm</p> <p>Required components:</p> <p>C13868_LENINA-STD-BASE-VERO13-18</p> <p>Bender Wirth: 438 Typ L1</p>		
<p>NICHIA</p> <p>LED COB L-Type (LES 9)</p> <p>FWHM 74.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 0.590 cd/lm</p> <p>Required components:</p> <p>C13868_LENINA-STD-BASE-VERO13-18</p> <p>C12606_LENINA-DL</p> <p>Bender Wirth: 438 Typ L1</p>		
<p>NICHIA</p> <p>LED COB L-Type (LES 9)</p> <p>FWHM 76.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 0.640 cd/lm</p> <p>Required components:</p> <p>C13868_LENINA-STD-BASE-VERO13-18</p> <p>Bender Wirth: 438 Typ L1</p>		

PHOTOMETRIC DATA (MEASURED):

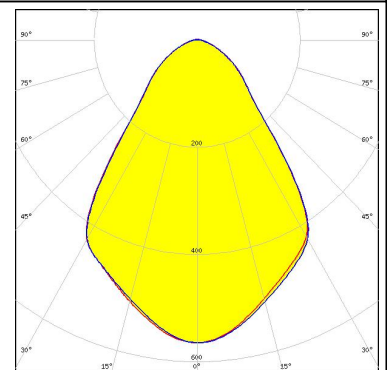
OSRAM
Opto Semiconductors

LED Soleriq P13
 FWHM 71.0°
 Efficiency 87 %
 Peak intensity 0.580 cd/lm
 Required components:
 C12606_LENINA-DL
 IDEAL: 50-2101CR + 50-2100LN



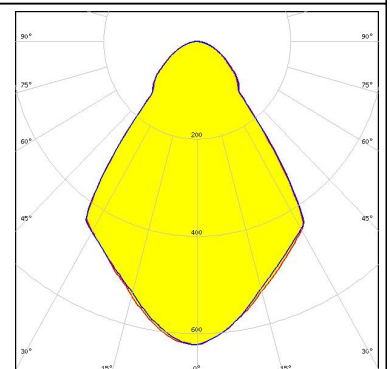
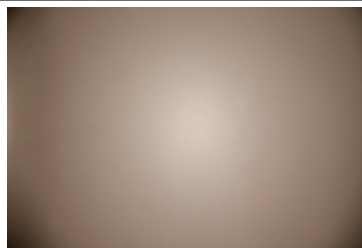
OSRAM
Opto Semiconductors

LED Soleriq P13
 FWHM 75.0°
 Efficiency 90 %
 Peak intensity 0.570 cd/lm
 Required components:
 C13868_LENINA-STD-BASE-VERO13-18
 C12606_LENINA-DL
 Bender Wirth: 437 Typ L1



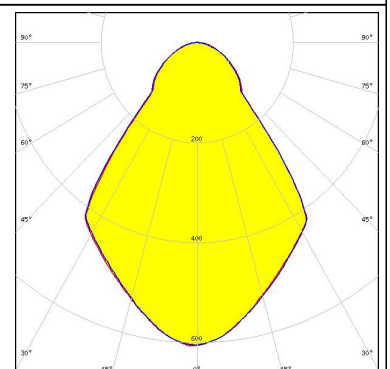
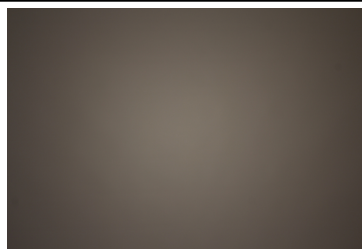
OSRAM
Opto Semiconductors

LED Soleriq P13
 FWHM 73.0°
 Efficiency 91 %
 Peak intensity 0.620 cd/lm
 Required components:
 IDEAL: 50-2101CR + 50-2100LN



OSRAM
Opto Semiconductors

LED Soleriq P13
 FWHM 75.0°
 Efficiency 94 %
 Peak intensity 0.610 cd/lm
 Required components:
 C13868_LENINA-STD-BASE-VERO13-18
 Bender Wirth: 437 Typ L1



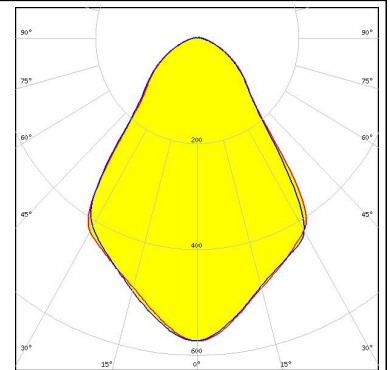
PHOTOMETRIC DATA (MEASURED):

OSRAM
Opto Semiconductors

LED Soleriq P9
FWHM 73.0°
Efficiency 90 %
Peak intensity 0.570 cd/lm

Required components:

C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 461 Typ L1

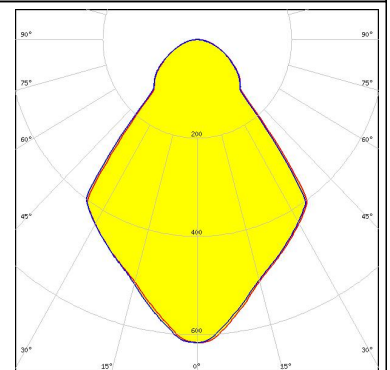
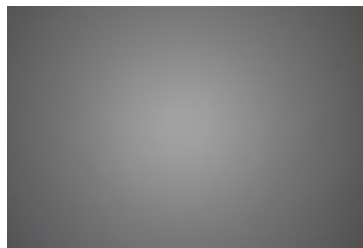


OSRAM
Opto Semiconductors

LED Soleriq P9
FWHM 76.0°
Efficiency 94 %
Peak intensity 0.620 cd/lm

Required components:

C13868_LENINA-STD-BASE-VERO13-18
Bender Wirth: 461 Typ L1

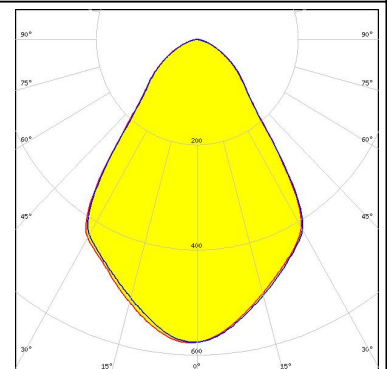
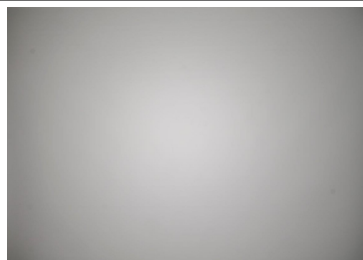


OSRAM
Opto Semiconductors

LED Soleriq S13
FWHM 73.0°
Efficiency 89 %
Peak intensity 0.580 cd/lm

Required components:

C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 437 Typ L1

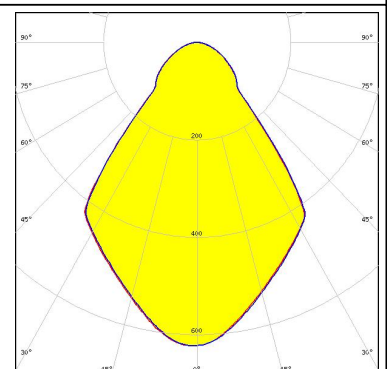
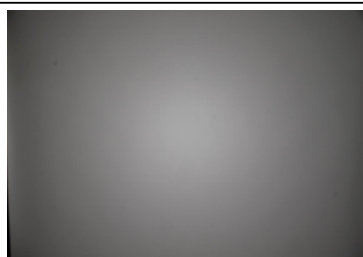


OSRAM
Opto Semiconductors

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



PHOTOMETRIC DATA (MEASURED):

OSRAM
Opto Semiconductors

LED Soleriq S19

FWHM 75.0°

Efficiency 88 %

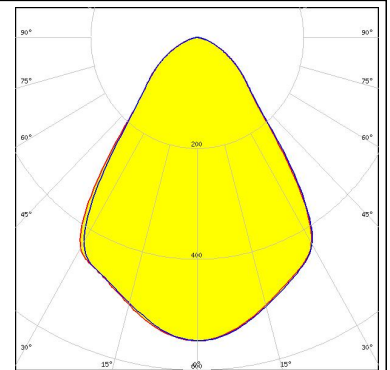
Peak intensity 0.550 cd/lm

Required components:

C13867_LENINA-STD-BASE-VERO29

C12606_LENINA-DL

Bender Wirth: 462 Typ L3



OSRAM
Opto Semiconductors

LED Soleriq S19

FWHM 76.0°

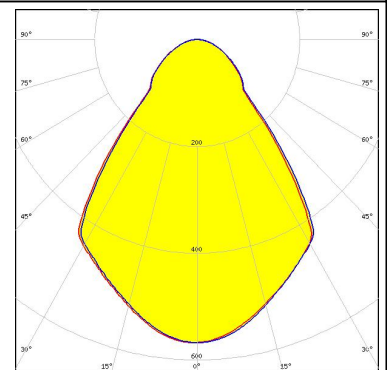
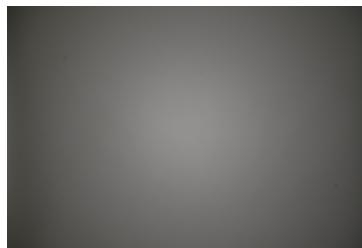
Efficiency 93 %

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

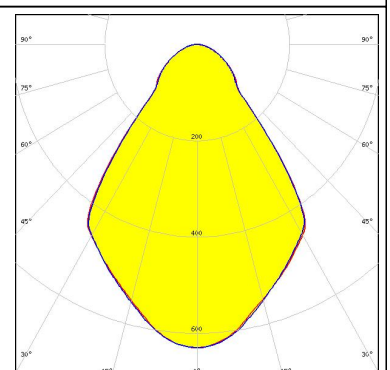
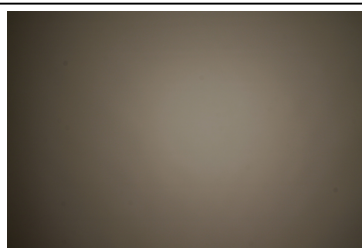
FWHM 74.0°

Efficiency 94 %

Peak intensity 0.630 cd/lm

Required components:

C12691_LENINA-STD-BASE-CLL030



SAMSUNG

LED COB D Series LES 14.5 mm

FWHM 73.0°

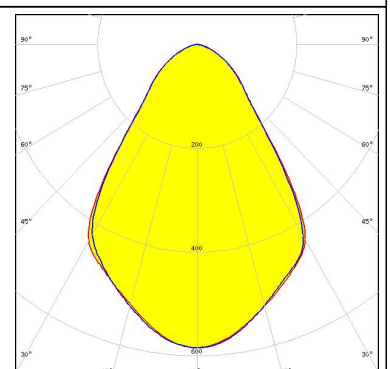
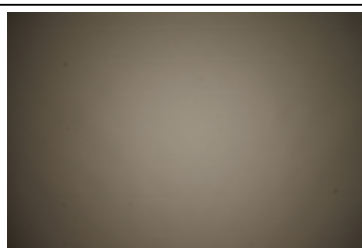
Efficiency 89 %

Peak intensity 0.600 cd/lm

Required components:

C12691_LENINA-STD-BASE-CLL030

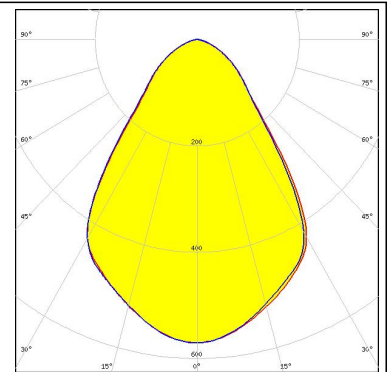
C12606_LENINA-DL



PHOTOMETRIC DATA (MEASURED):

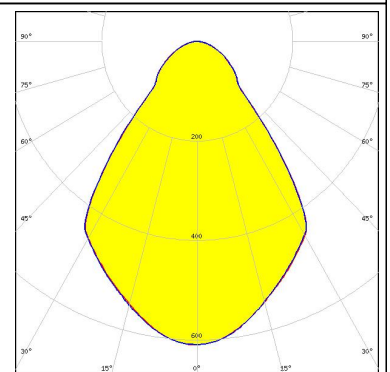
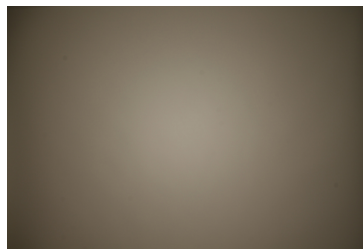
SAMSUNG

LED 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

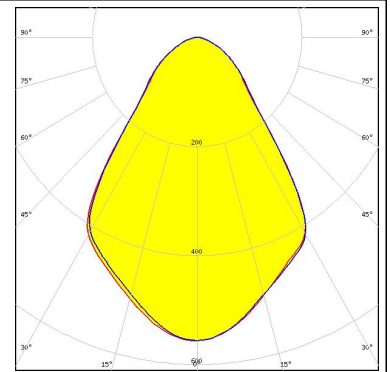


SAMSUNG

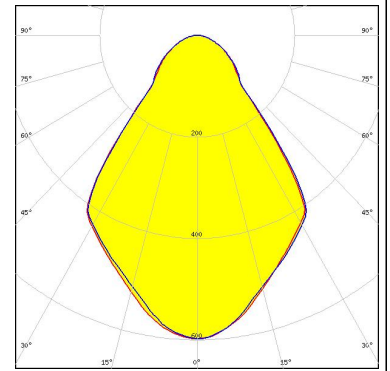
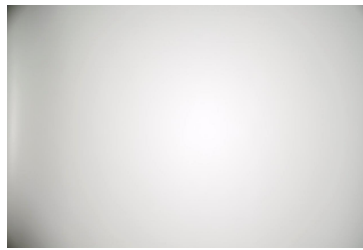
LED LC026B / 033B / 040B
 FWHM 75.0°
 Efficiency 94 %
 Peak intensity 0.610 cd/lm
 Required components:
 C13868_LENINA-STD-BASE-VERO13-18
 Bender Wirth: 450 Typ L2





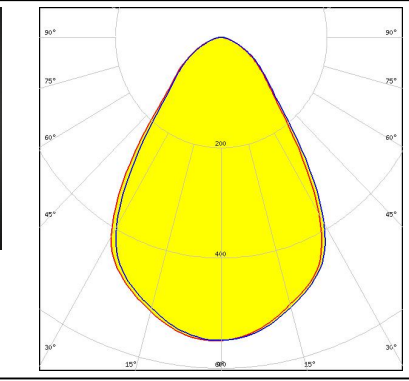

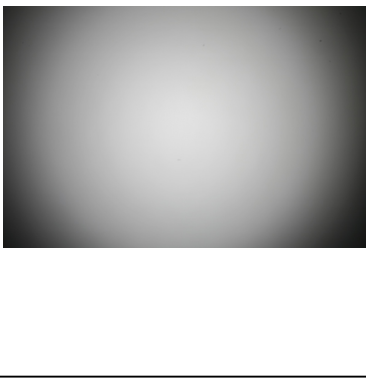
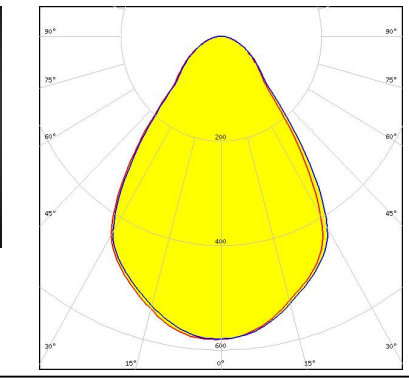
LED ZC12/18
 FWHM 73.0°
 Efficiency 86 %
 Peak intensity 0.560 cd/lm
 Required components:
 C12691_LENINA-STD-BASE-CLL030
 C12606_LENINA-DL



LED ZC12/18
 FWHM 75.0°
 Efficiency 90 %
 Peak intensity 0.600 cd/lm
 Required components:
 C12691_LENINA-STD-BASE-CLL030



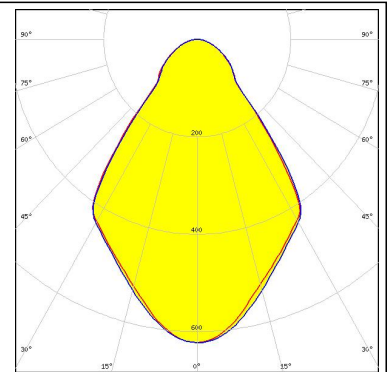
PHOTOMETRIC DATA (MEASURED):

<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>		
<p>SHARP</p> <p>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</p>		

PHOTOMETRIC DATA (MEASURED):

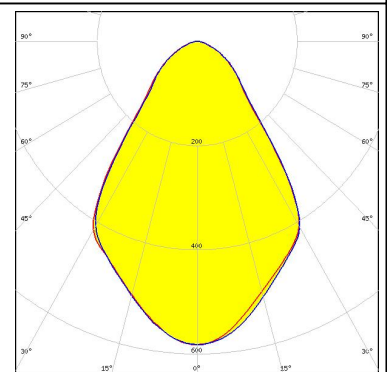
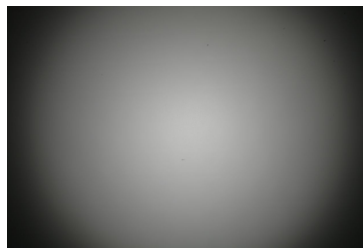
SHARP

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



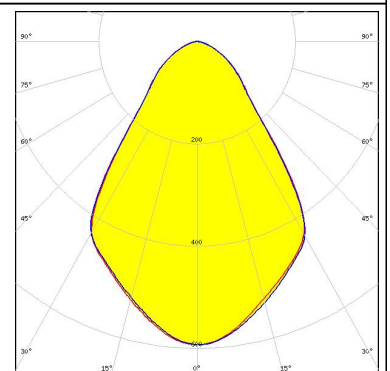
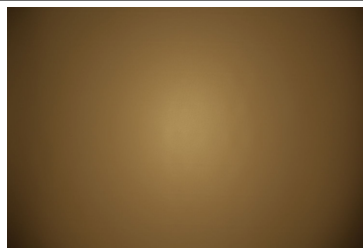
SHARP

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



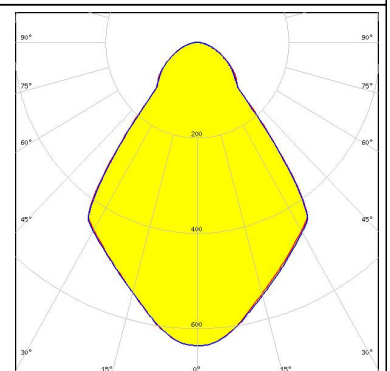
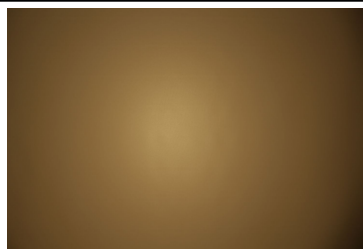
TRIDONIC

LED SLE G5 LES15
FWHM 73.0°
Efficiency 90 %
Peak intensity 0.590 cd/lm
Required components:
C12691_LENINA-STD-BASE-CLL030
C12606_LENINA-DL
LEDiL: LEDiL



TRIDONIC

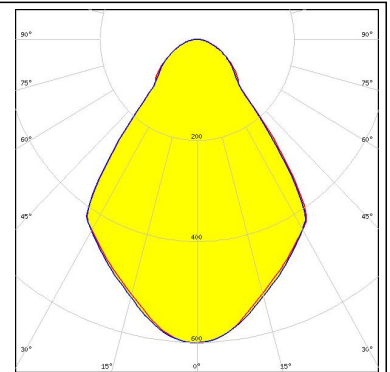
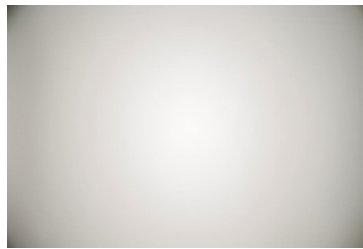
LED SLE G5 LES15
FWHM 75.0°
Efficiency 94 %
Peak intensity 0.640 cd/lm
Required components:
C12691_LENINA-STD-BASE-CLL030
LEDiL: LEDiL



PHOTOMETRIC DATA (MEASURED):

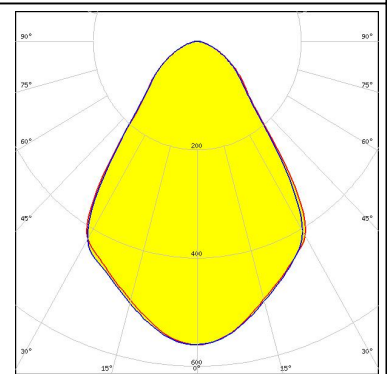
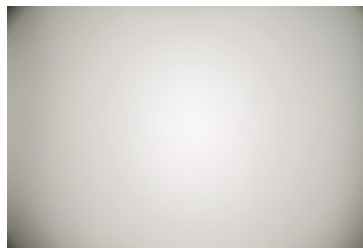
TRIDONIC

LED STARK SLE PURE G3 LES17
FWHM 75.0°
Efficiency 91 %
Peak intensity 0.600 cd/lm
Required components:
C12691_LENINA-STD-BASE-CLL030


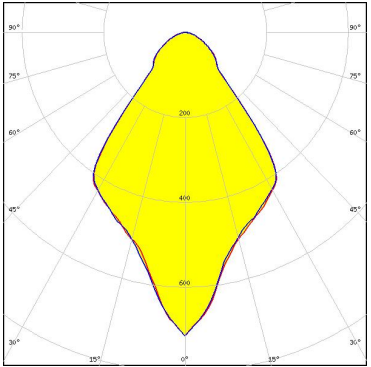

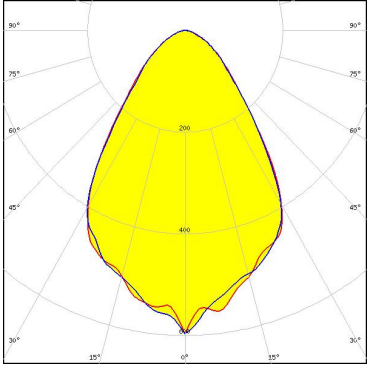

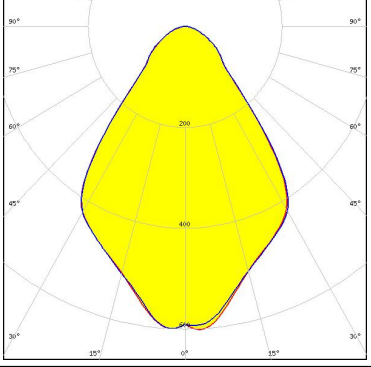

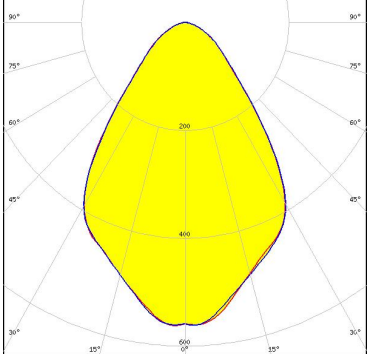


TRIDONIC


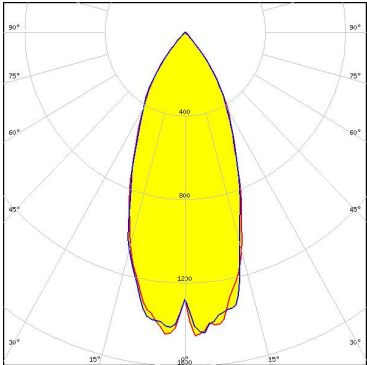

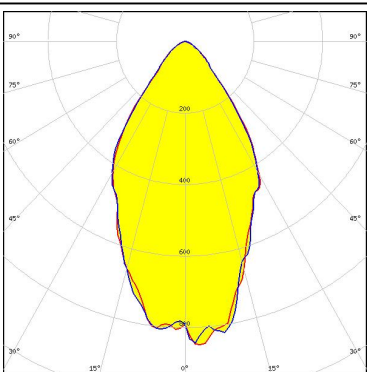


LED STARK SLE PURE G3 LES17
FWHM 74.0°
Efficiency 87 %
Peak intensity 0.560 cd/lm
Required components:
C12691_LENINA-STD-BASE-CLL030
C12606_LENINA-DL



PHOTOMETRIC DATA (SIMULATED):

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

PHOTOMETRIC DATA (SIMULATED):

<p> bridgelux</p> <p>LED V22 Gen7 FWHM 60.0° Efficiency 89 % Peak intensity 0.000 cd/lm</p> <p>Required components: C13867_LENINA-STD-BASE-VERO29 Bender Wirth: 431 Typ L3</p>	
<p> bridgelux</p> <p>LED V22 Gen7 FWHM 60.0° Efficiency 85 % Peak intensity 0.894 cd/lm</p> <p>Required components: C13867_LENINA-STD-BASE-VERO29 C12606_LENINA-DL Bender Wirth: 431 Typ L3</p>	
<p> LUMINUS</p> <p>LED CXM-14 FWHM 74.0° Efficiency 89 % Peak intensity 0.580 cd/lm</p> <p>Required components: C13868_LENINA-STD-BASE-VERO13-18 C12606_LENINA-DL Bender Wirth: 433 Typ L1</p>	
<p> LUMINUS</p> <p>LED CXM-14 FWHM 75.0° Efficiency 94 % Peak intensity 0.620 cd/lm</p> <p>Required components: C13868_LENINA-STD-BASE-VERO13-18 Bender Wirth: 433 Typ L1</p>	

PHOTOMETRIC DATA (SIMULATED):



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

Required components:

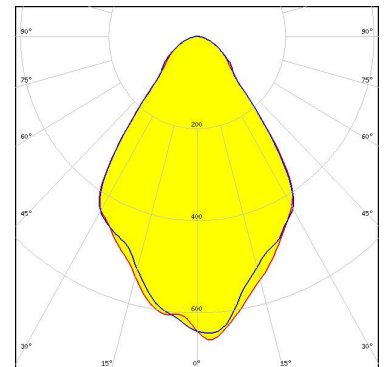
C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 434 Typ L1



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.

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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