

LENINA-W

~55° wide beam

SPECIFICATION:

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

MATERIALS:

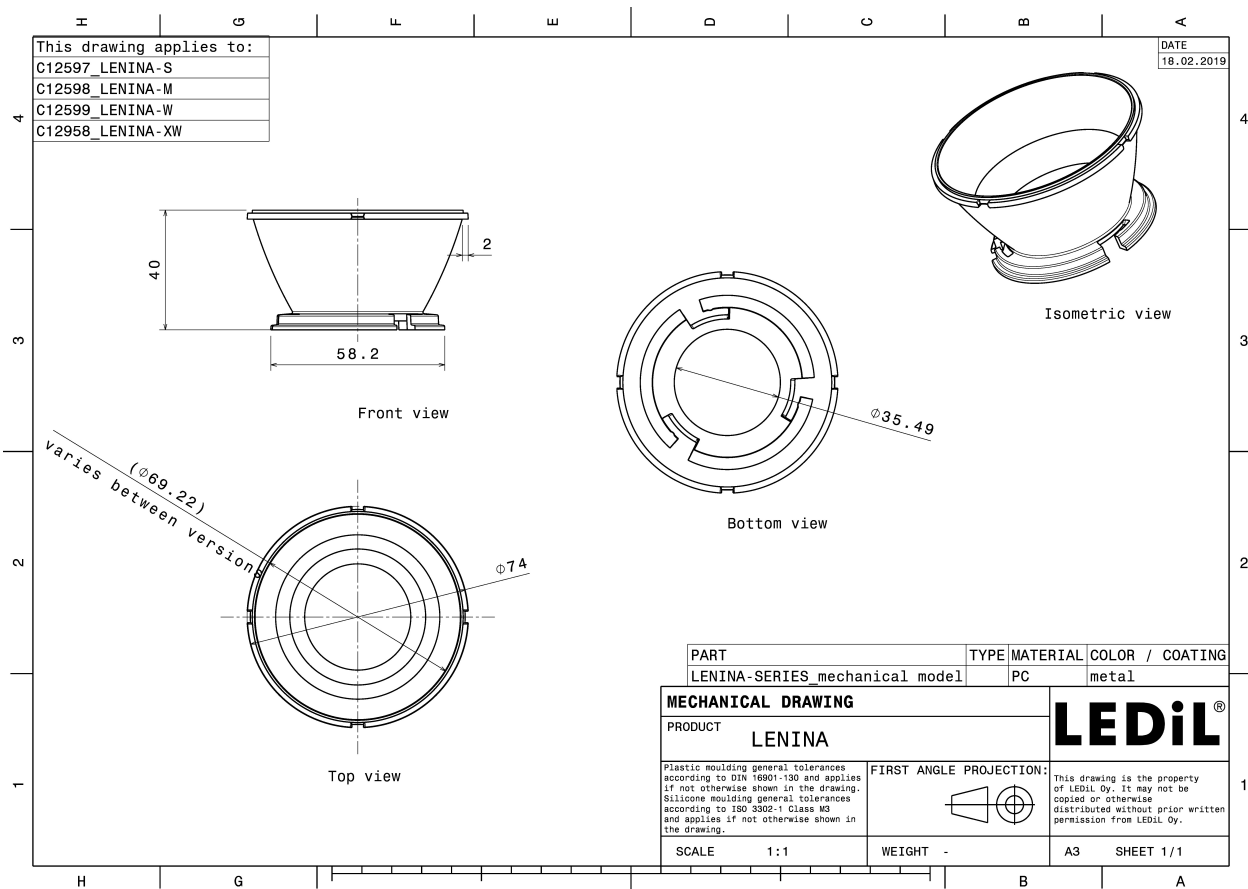
Component	Type	Material
LENINA-W	Reflector	PC



Colour	Finish	Coating
metal		lacquer

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C12599_LENINA-W » Box size: 476 x 273 x 197 mm	60	120	60	2.0

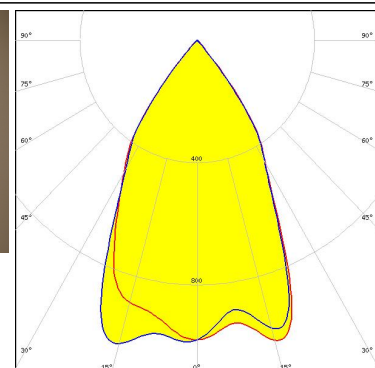
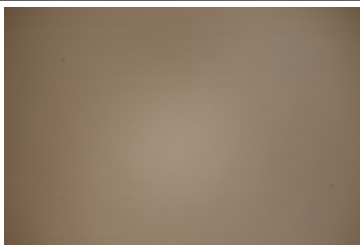


See also our general installation guide: www.ledil.com/installation_guide

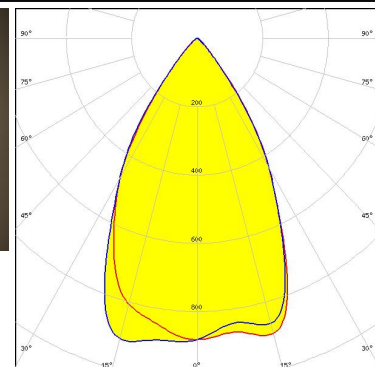
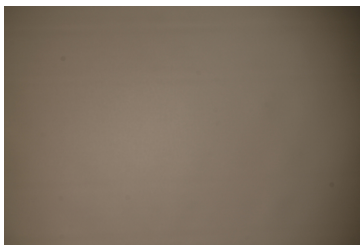
OPTICAL RESULTS (MEASURED):



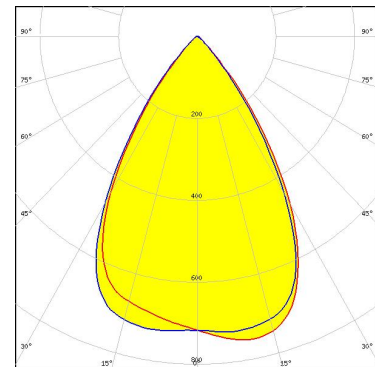
LED BXRA ES Rectangle
FWHM / FWTM 58.0° / 82.0°
Efficiency 91 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12153_LENINA-STD-BASE-BXRA



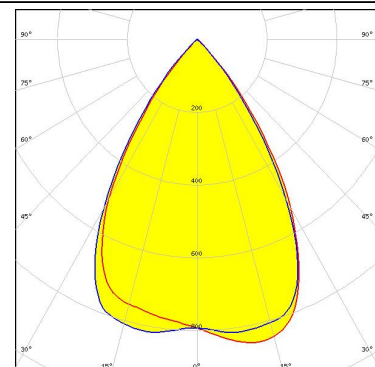
LED BXRA ES Rectangle
FWHM / FWTM 60.0° / 84.0°
Efficiency 86 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12153_LENINA-STD-BASE-BXRA
C12606_LENINA-DL



LED BXRA RS
FWHM / FWTM 60.0° / 89.0°
Efficiency 80 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12229_LENINA-STD-BASE-RS
C12606_LENINA-DL



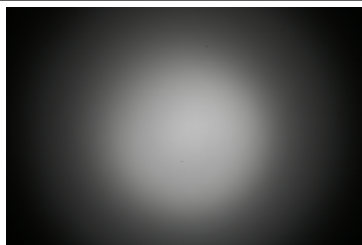
LED BXRA RS
FWHM / FWTM 64.0° / 87.0°
Efficiency 88 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12229_LENINA-STD-BASE-RS



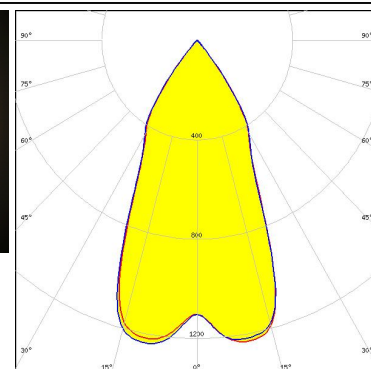
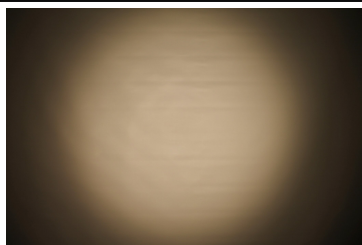
OPTICAL RESULTS (MEASURED):



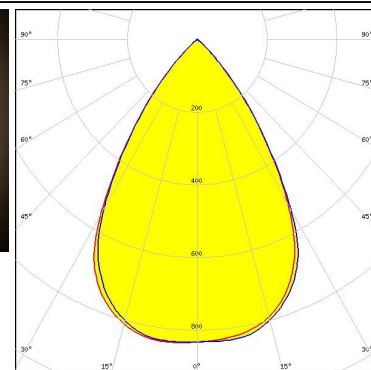
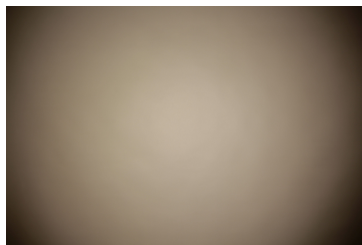
LED V10 Gen6
FWHM / FWTM 47.0° / 80.0°
Efficiency 83 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13186_LENINA-STD-BASE-CXA15
C12606_LENINA-DL



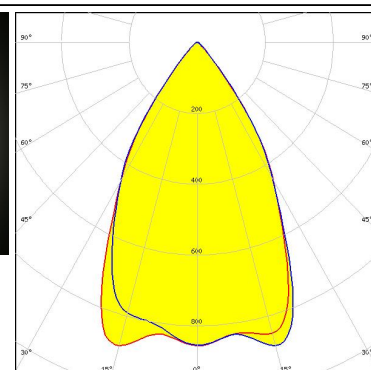
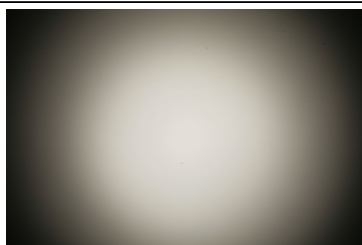
LED V4 HD Gen 7
FWHM / FWTM 48.0° / 79.0°
Efficiency 91 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14146_LENINA-STD-BASE-CXA18



LED Vero SE 29
FWHM / FWTM 66.0° / 90.0°
Efficiency 91 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C15083_LENINA-STD-BASE-VERO29



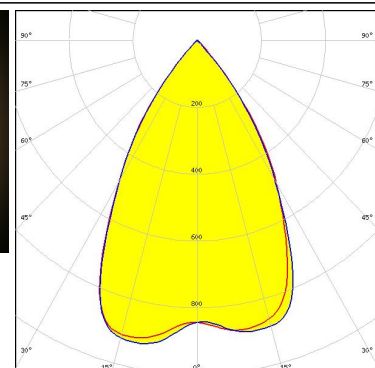
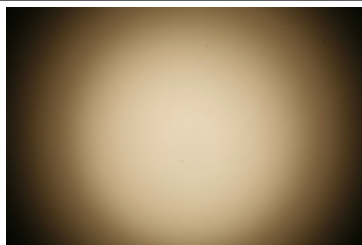
LED VERO13
FWHM / FWTM 60.0° / 84.0°
Efficiency 85 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL



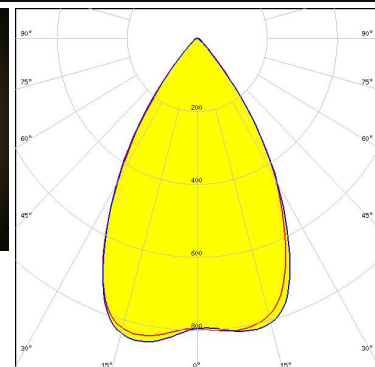
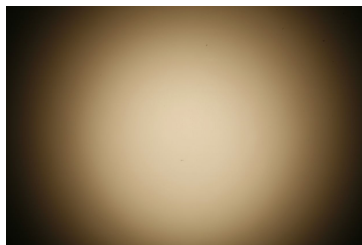
OPTICAL RESULTS (MEASURED):



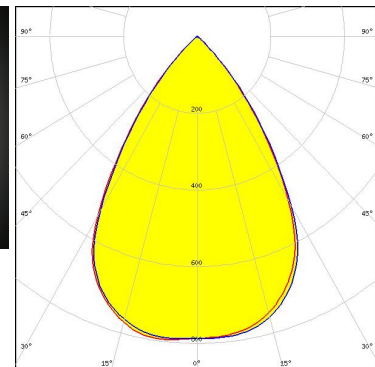
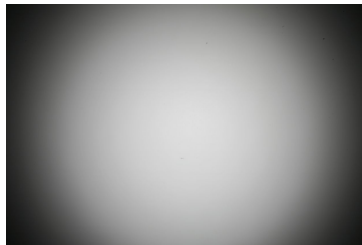
LED VERO18
FWHM / FWTM 64.0° / 85.0°
Efficiency 89 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18



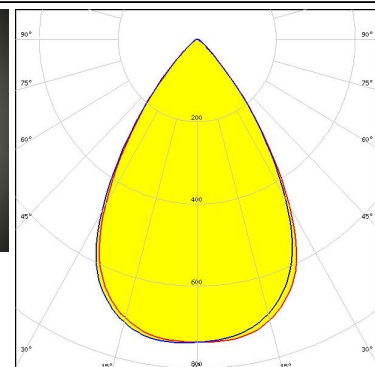
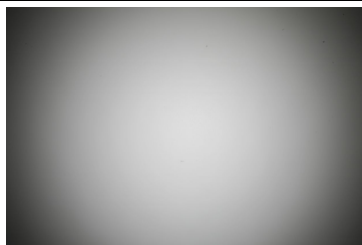
LED VERO18
FWHM / FWTM 64.0° / 86.0°
Efficiency 85 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL



LED VERO29
FWHM / FWTM 67.0° / 91.0°
Efficiency 88 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13867_LENINA-STD-BASE-VERO29



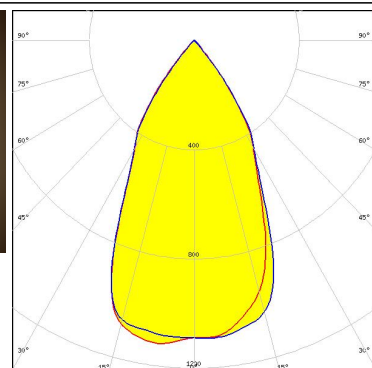
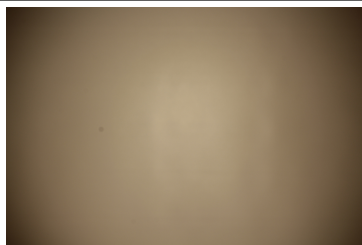
LED VERO29
FWHM / FWTM 67.0° / 92.0°
Efficiency 84 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13867_LENINA-STD-BASE-VERO29
C12606_LENINA-DL



OPTICAL RESULTS (MEASURED):

CITIZEN

LED CL-L340
FWHM / FWTM 53.0° / 81.0°
Efficiency 91 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C11995_LENINA-STD-BASE-CL340



CITIZEN

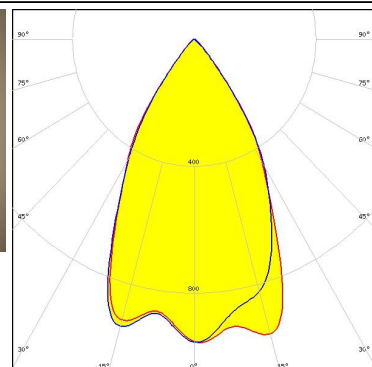
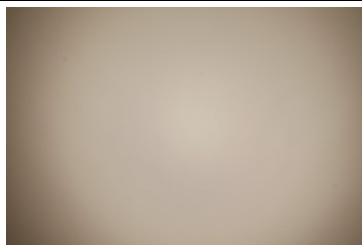
LED CL-L340
FWHM / FWTM 48.0° / 80.0°
Efficiency 86 %
LEDs/each optic 1
Light colour White
Required components:
C11995_LENINA-STD-BASE-CL340

CITIZEN

LED CL-L340
FWHM / FWTM 50.0° / 83.0°
Efficiency 78 %
LEDs/each optic 1
Light colour White
Required components:
C11995_LENINA-STD-BASE-CL340
C12606_LENINA-DL

CITIZEN

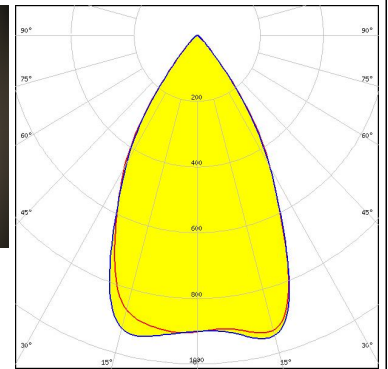
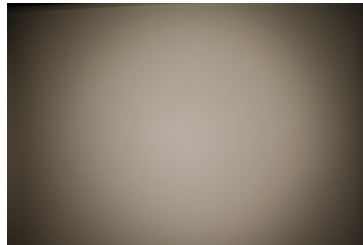
LED CLL02x/CLU02x (LES10)
FWHM / FWTM 57.0° / 82.0°
Efficiency 86 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 434 Typ L1



OPTICAL RESULTS (MEASURED):

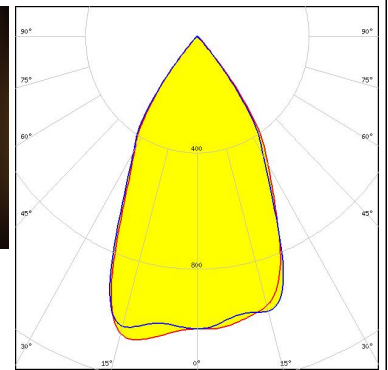
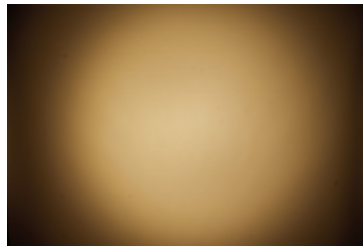
CITIZEN

LED CLL03x/CLU03x
FWHM / FWTM 60.0° / 83.0°
Efficiency 86 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 433 Typ L1



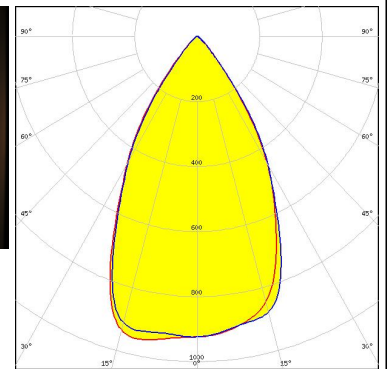
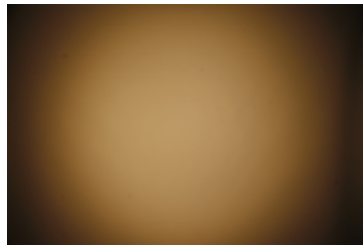
CITIZEN

LED CLL03x/CLU03x
FWHM / FWTM 56.0° / 82.0°
Efficiency 90 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12691_LENINA-STD-BASE-CLL030



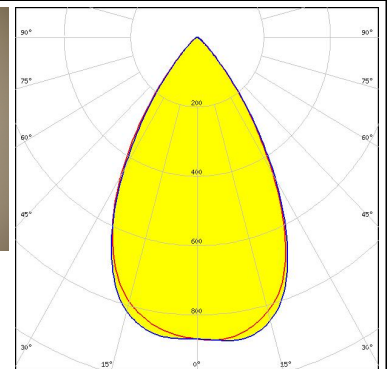
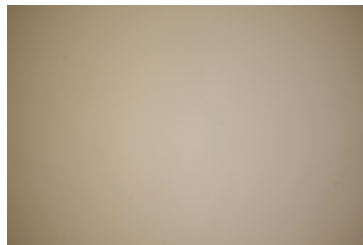
CITIZEN

LED CLL03x/CLU03x
FWHM / FWTM 58.0° / 84.0°
Efficiency 86 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12691_LENINA-STD-BASE-CLL030
C12606_LENINA-DL



CITIZEN

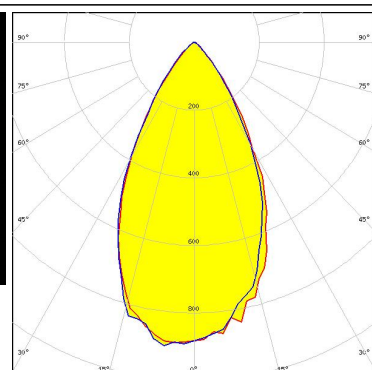
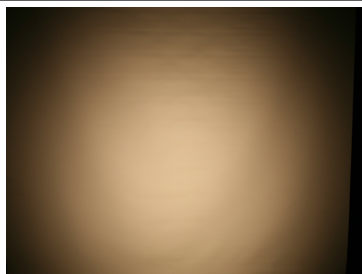
LED CLL04x/CLU04x
FWHM / FWTM 61.0° / 87.0°
Efficiency 86 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13867_LENINA-STD-BASE-VERO29
C12606_LENINA-DL
Bender Wirth: 431 Typ L3



OPTICAL RESULTS (MEASURED):

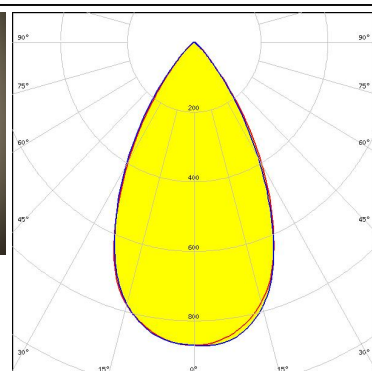
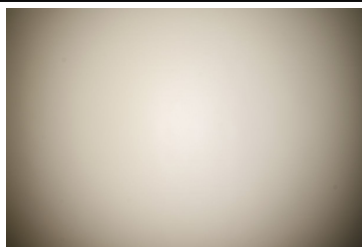
CITIZEN

LED CLL04x/CLU04x
FWHM / FWTM 56.0° / 87.0°
Efficiency 76 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12692_LENINA-STD-BASE-CLL040
C12606_LENINA-DL



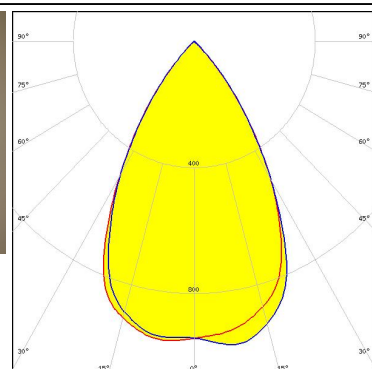
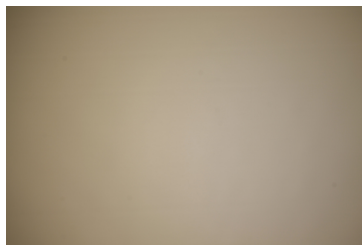
CITIZEN

LED CLL04x/CLU04x
FWHM / FWTM 58.0° / 85.0°
Efficiency 78 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12606_LENINA-DL
A.A.G. STUCCHI: 8102-G2 + S-8000-12



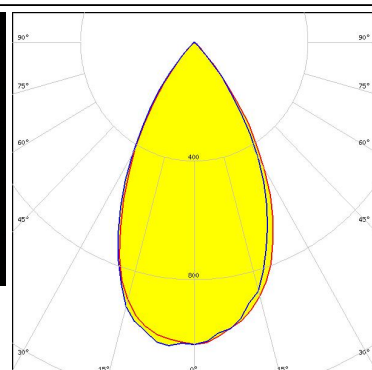
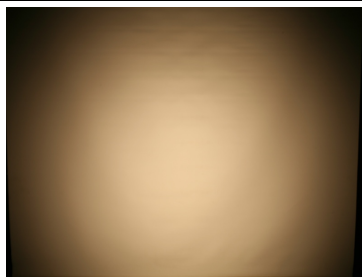
CITIZEN

LED CLL04x/CLU04x
FWHM / FWTM 61.0° / 85.0°
Efficiency 91 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13867_LENINA-STD-BASE-VERO29
Bender Wirth: 431 Typ L3



CITIZEN

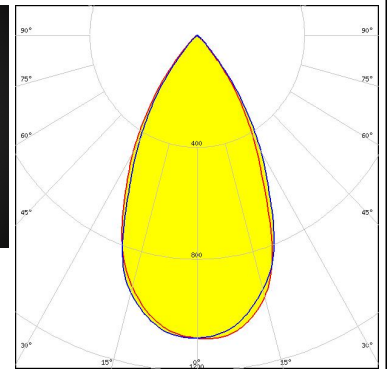
LED CLL04x/CLU04x
FWHM / FWTM 59.0° / 85.0°
Efficiency 84 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12692_LENINA-STD-BASE-CLL040



OPTICAL RESULTS (MEASURED):

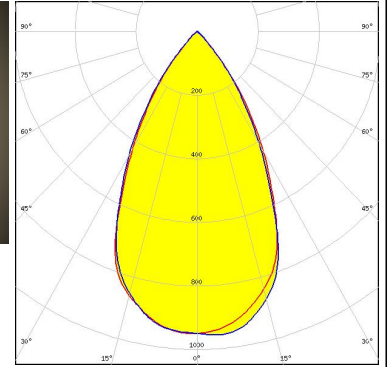
CITIZEN

LED CLL04x/CLU04x
FWHM / FWTM 54.0° / 83.0°
Efficiency 87 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2204CT + 50-2100LN



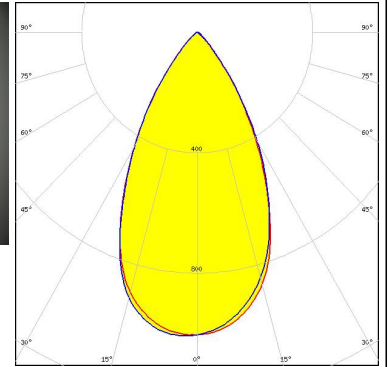
CITIZEN

LED CLL04x/CLU04x
FWHM / FWTM 57.0° / 84.0°
Efficiency 82 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
A.A.G. STUCCHI: 8102-G2 + S-8000-12



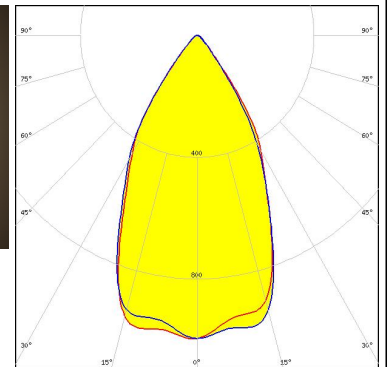
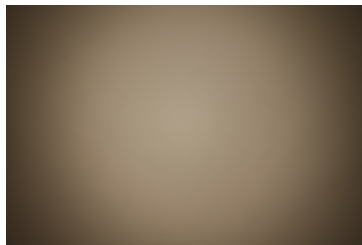
CITIZEN

LED CLL04x/CLU04x
FWHM / FWTM 55.0° / 84.0°
Efficiency 86 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12606_LENINA-DL
IDEAL: 50-2204CT + 50-2100LN



CITIZEN

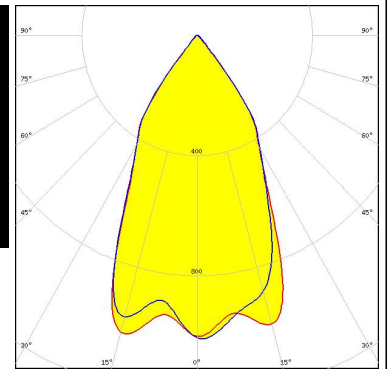
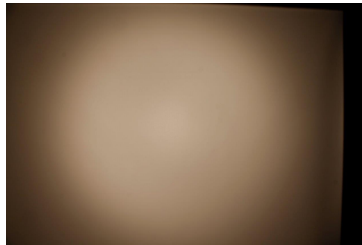
LED CLU710/711
FWHM / FWTM 55.0° / 82.0°
Efficiency 89 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12691_LENINA-STD-BASE-CLL030
C12606_LENINA-DL



OPTICAL RESULTS (MEASURED):

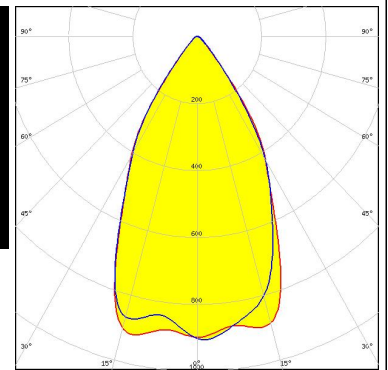
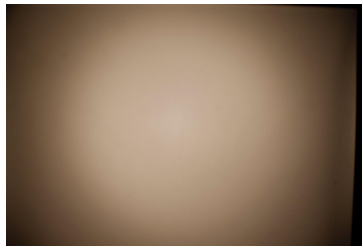
CITIZEN

LED CLU720/721/723
FWHM / FWTM 54.0° / 81.0°
Efficiency 87 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12691_LENINA-STD-BASE-CLL030



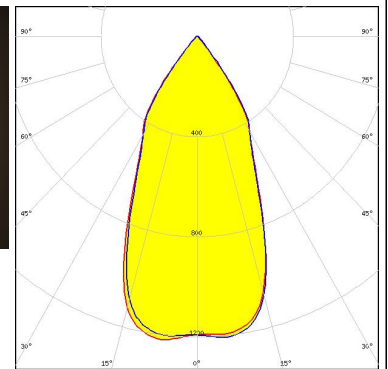
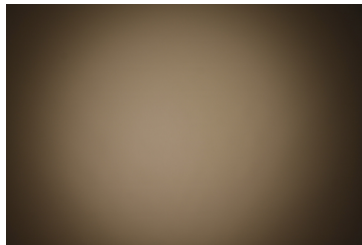
CITIZEN

LED CLU720/721/723
FWHM / FWTM 57.0° / 83.0°
Efficiency 83 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12691_LENINA-STD-BASE-CLL030
C12606_LENINA-DL



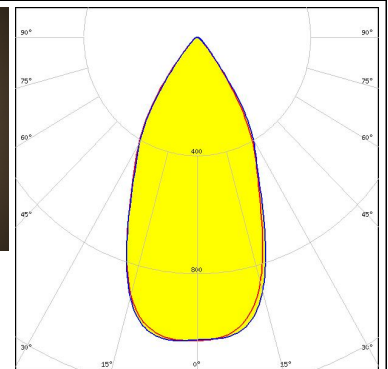
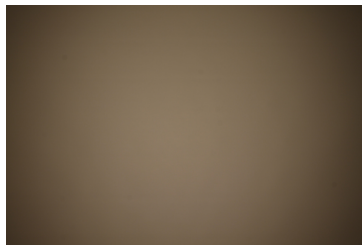
CITIZEN

LED CLU730/731/733
FWHM / FWTM 49.0° / 80.0°
Efficiency 93 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12692_LENINA-STD-BASE-CLL040



CITIZEN

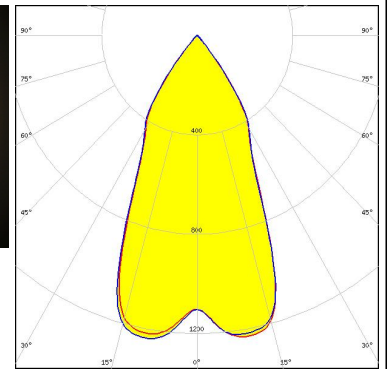
LED CLU730/731/733
FWHM / FWTM 50.0° / 82.0°
Efficiency 83 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12692_LENINA-STD-BASE-CLL040
C12606_LENINA-DL



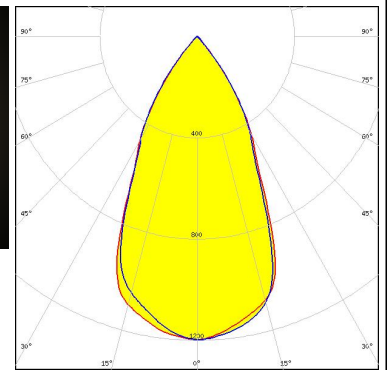
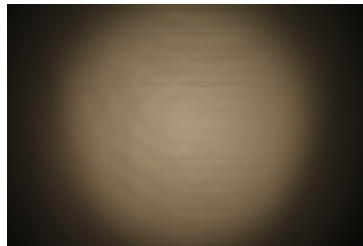
OPTICAL RESULTS (MEASURED):



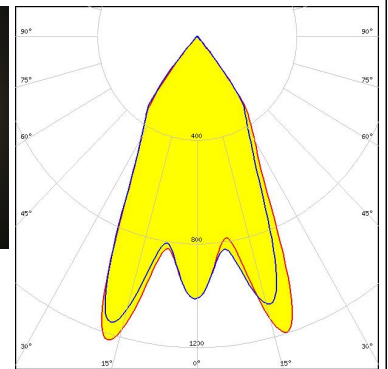
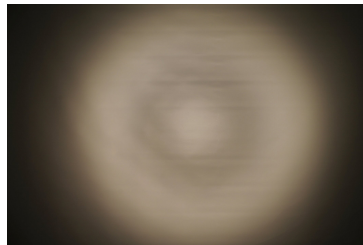
LED CMA1840
FWHM / FWTM 48.0° / 79.0°
Efficiency 91 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14146_LENINA-STD-BASE-CXA18



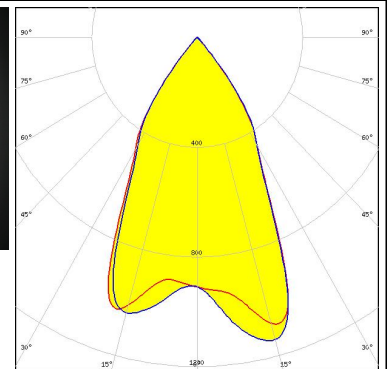
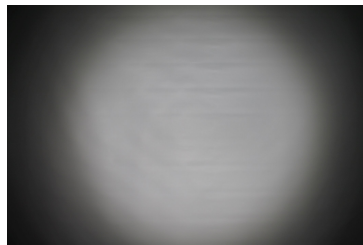
LED CMA2550
FWHM / FWTM 51.0° / 80.0°
Efficiency 91 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13324_LENINA-STD-BASE-CXA25



LED CMT14xx
FWHM / FWTM 55.0° / 81.0°
Efficiency 91 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
Bender Wirth: 434 Typ L1



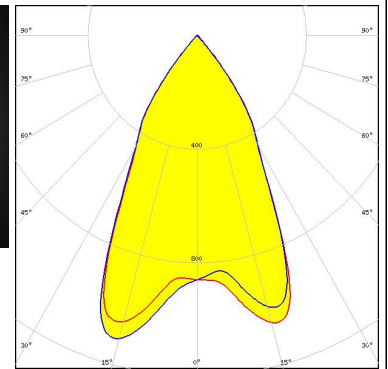
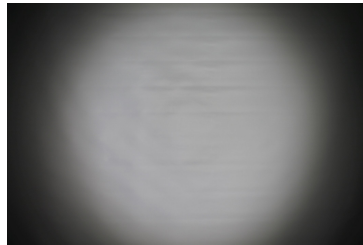
LED CMT19xx
FWHM / FWTM 54.0° / 81.0°
Efficiency 91 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12691_LENINA-STD-BASE-CLL030
Bender Wirth: 477 Typ L1



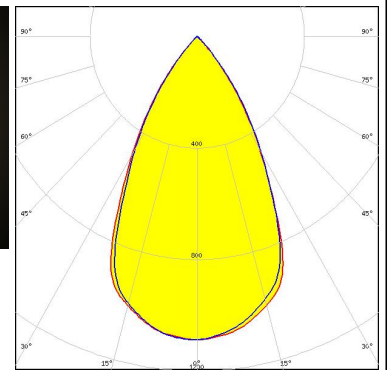
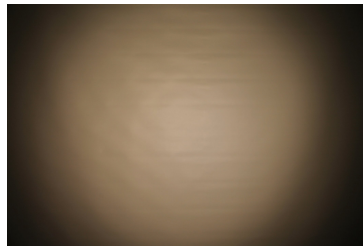
OPTICAL RESULTS (MEASURED):



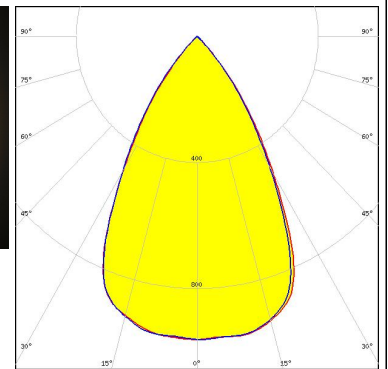
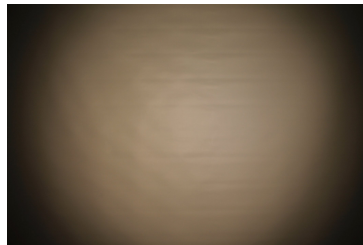
LED CMT19xx
FWHM / FWTM 55.0° / 82.0°
Efficiency 91 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
Bender Wirth: 477 Typ L1



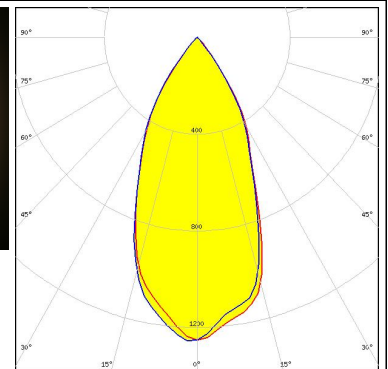
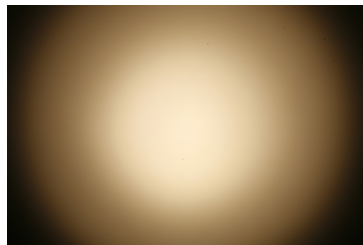
LED CMT28xx
FWHM / FWTM 56.0° / 82.0°
Efficiency 92 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12692_LENINA-STD-BASE-CLL040



LED CMT28xx
FWHM / FWTM 60.0° / 84.0°
Efficiency 91 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13867_LENINA-STD-BASE-VERO29
Bender Wirth: 471 Typ L3



LED CXA/B 15xx
FWHM / FWTM 48.0° / 79.0°
Efficiency 83 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13186_LENINA-STD-BASE-CXA15
C12606_LENINA-DL



OPTICAL RESULTS (MEASURED):



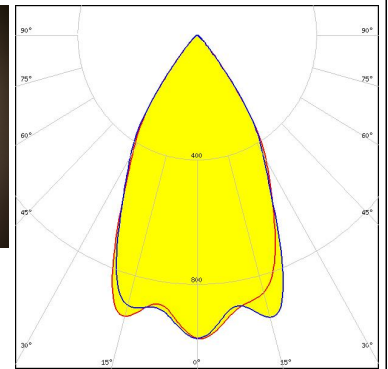
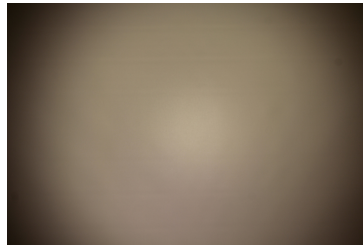
LED CXA/B 15xx
FWHM / FWTM 57.0° / 82.0°
Efficiency 86 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White

Required components:

C13868_LENINA-STD-BASE-VERO13-18

C12606_LENINA-DL

Bender Wirth: 441 Typ L1



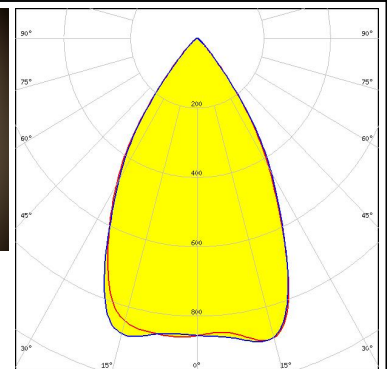
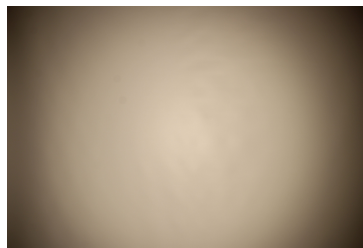
LED CXA/B 1830
FWHM / FWTM 61.0° / 85.0°
Efficiency 86 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White

Required components:

C13868_LENINA-STD-BASE-VERO13-18

C12606_LENINA-DL

Bender Wirth: 437 Typ L1

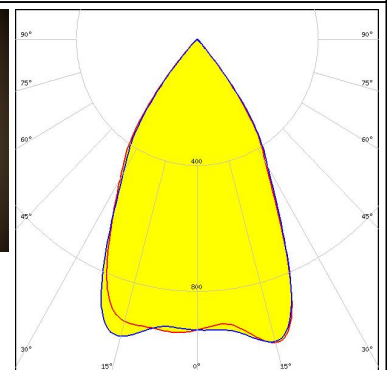
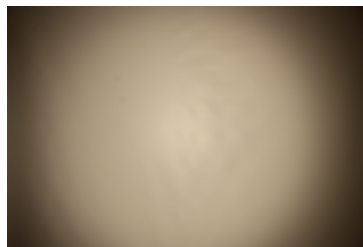


LED CXA/B 1830
FWHM / FWTM 60.0° / 83.0°
Efficiency 91 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White

Required components:

C13868_LENINA-STD-BASE-VERO13-18

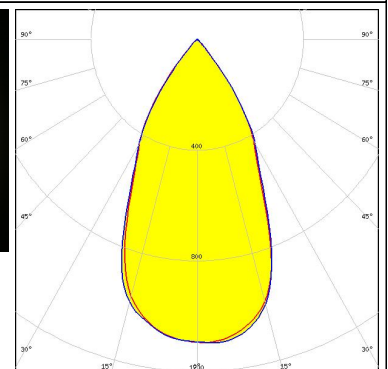
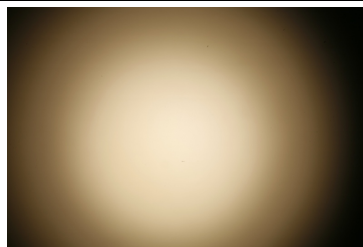
Bender Wirth: 437 Typ L1



LED CXA/B 25xx
FWHM / FWTM 51.0° / 80.0°
Efficiency 84 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White

Required components:

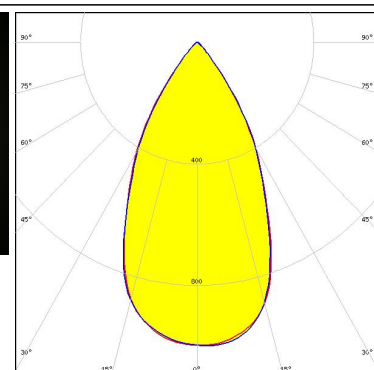
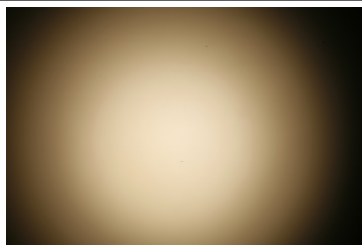
C13324_LENINA-STD-BASE-CXA25



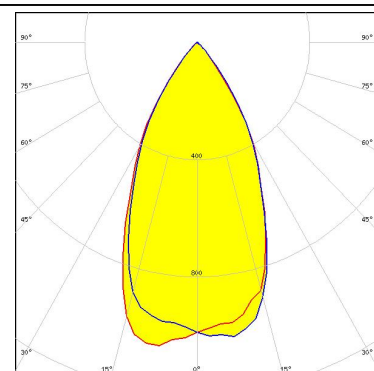
OPTICAL RESULTS (MEASURED):



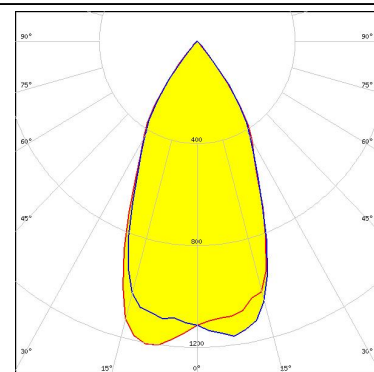
LED CXA/B 25xx
FWHM / FWTM 52.0° / 80.0°
Efficiency 76 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13324_LENINA-STD-BASE-CXA25
C12606_LENINA-DL



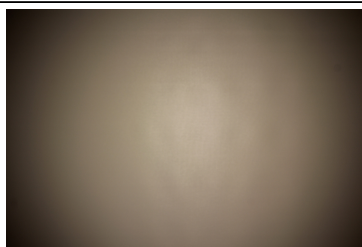
LED CXA2011
FWHM / FWTM 52.0° / 83.0°
Efficiency 78 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12105_LENINA-STD-BASE-CXA20
C12606_LENINA-DL



LED CXA2011
FWHM / FWTM 50.0° / 80.0°
Efficiency 86 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12105_LENINA-STD-BASE-CXA20



LED CHI3030 19W
FWHM / FWTM 62.0° / 88.0°
Efficiency 90 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13867_LENINA-STD-BASE-VERO29
C12606_LENINA-DL
Bender Wirth: 468 Typ L3



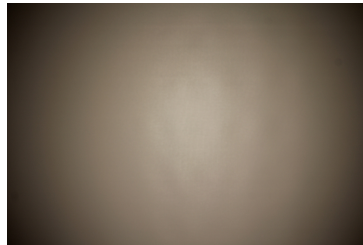
OPTICAL RESULTS (MEASURED):

EVERLIGHT

LED CHI3030 29W
FWHM / FWTM 63.0° / 92.0°
Efficiency 86 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour White

Required components:

C13867_LENINA-STD-BASE-VERO29
C12606_LENINA-DL
Bender Wirth: 468 Typ L3

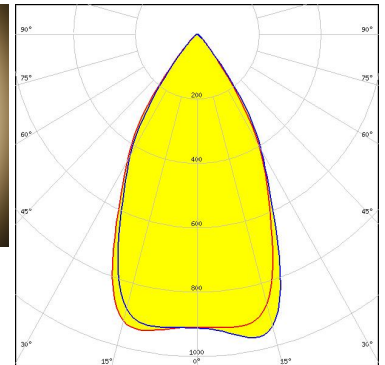


LUMILEDS

LED LUXEON CoB 1204/1205
FWHM / FWTM 57.0° / 82.0°
Efficiency 84 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White

Required components:

C12292_LENINA-STD-BASE-MEZ
C12606_LENINA-DL

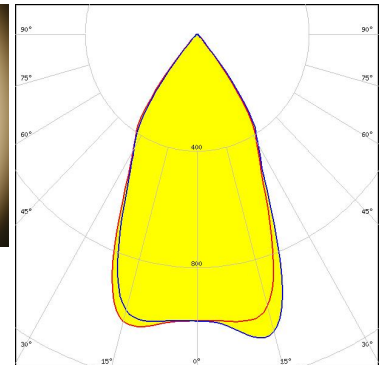


LUMILEDS

LED LUXEON CoB 1204/1205
FWHM / FWTM 55.0° / 81.0°
Efficiency 89 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White

Required components:

C12292_LENINA-STD-BASE-MEZ

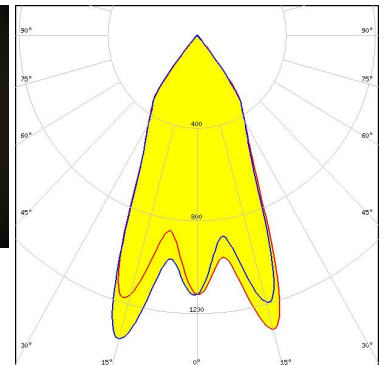
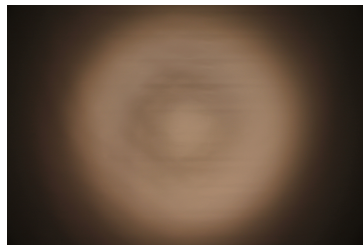


LUMILEDS

LED LUXEON CoB 1204HD
FWHM / FWTM 51.0° / 79.0°
Efficiency 91 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White

Required components:

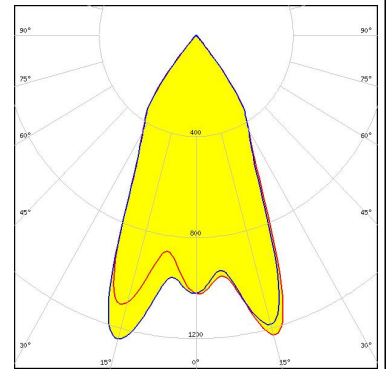
C11981_LENINA-STD-BASE-COB-L110



OPTICAL RESULTS (MEASURED):

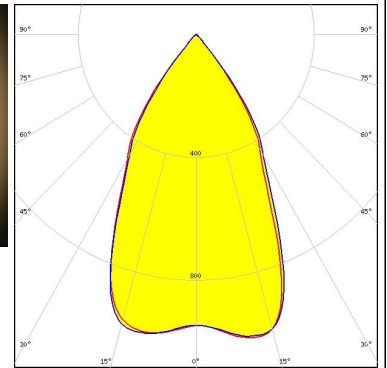
LUMILEDS

LED LUXEON CoB 1205HD
FWHM / FWTM 54.0° / 80.0°
Efficiency 91 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C11981_LENINA-STD-BASE-COB-L110



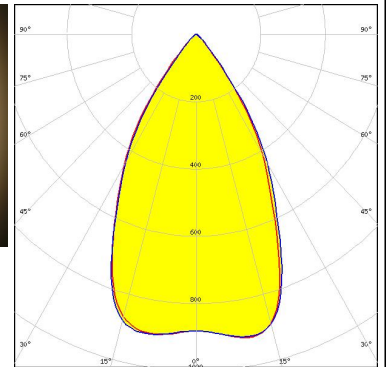
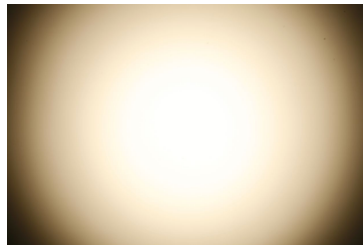
LUMILEDS

LED LUXEON CoB 1208
FWHM / FWTM 58.0° / 82.0°
Efficiency 88 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12292_LENINA-STD-BASE-MEZ



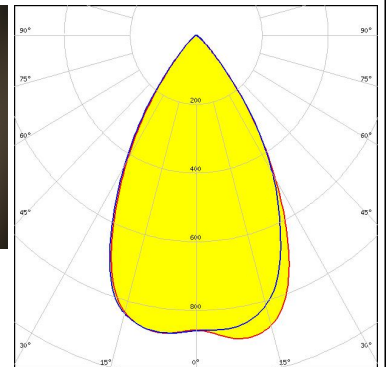
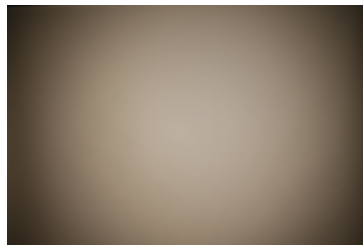
LUMILEDS

LED LUXEON CoB 1208
FWHM / FWTM 60.0° / 83.0°
Efficiency 84 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12292_LENINA-STD-BASE-MEZ
C12606_LENINA-DL



LUMILEDS

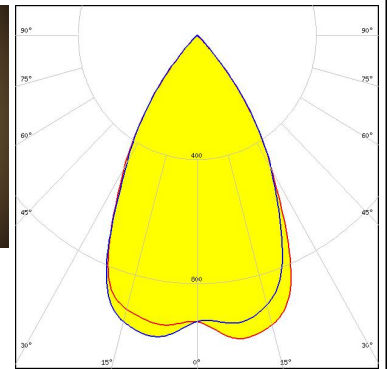
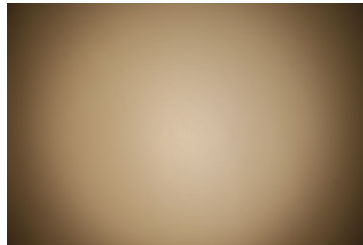
LED LUXEON CoB 1211
FWHM / FWTM 60.0° / 86.0°
Efficiency 86 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13867_LENINA-STD-BASE-VERO29
C12606_LENINA-DL
Bender Wirth: 431 Typ L3



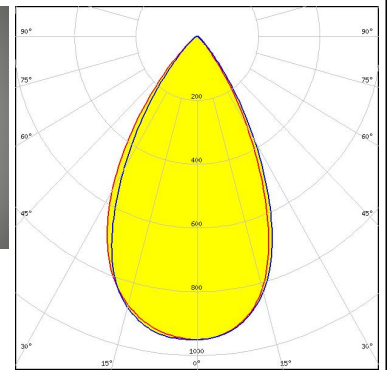
OPTICAL RESULTS (MEASURED):



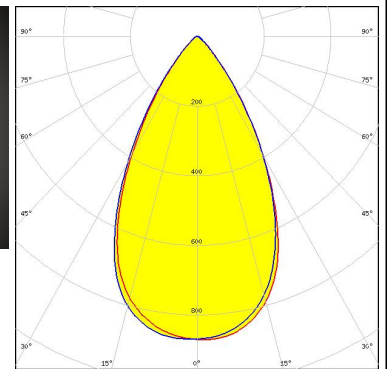
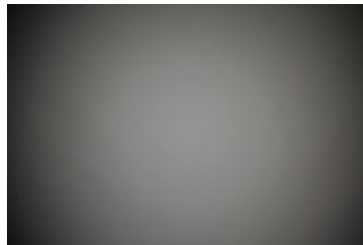
LED LUXEON CoB 1211
FWHM / FWTM 60.0° / 84.0°
Efficiency 91 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13867_LENASTD-BASE-VERO29
Bender Wirth: 431 Typ L3



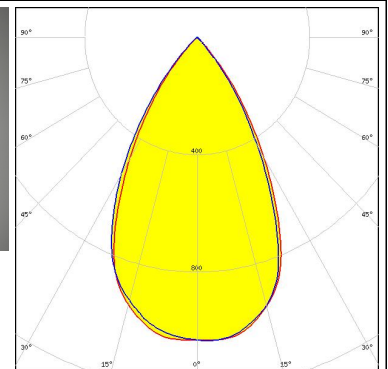
LED LUXEON CoB 1213/1216/1812
FWHM / FWTM 58.0° / 85.0°
Efficiency 86 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12692_LENASTD-BASE-CLL040
C12606_LENINA-DL



LED LUXEON CoB 1213/1216/1812
FWHM / FWTM 58.0° / 86.0°
Efficiency 80 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12606_LENINA-DL
A.A.G. STUCCHI: 8102-G2 + S-8000-12



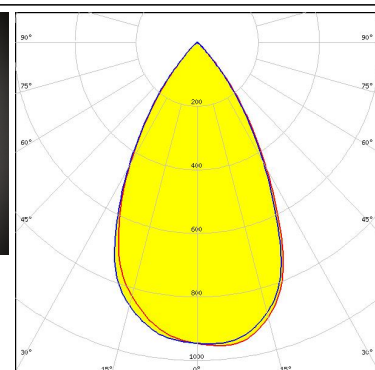
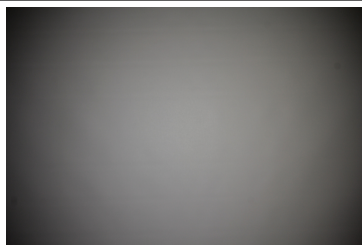
LED LUXEON CoB 1213/1216/1812
FWHM / FWTM 58.0° / 84.0°
Efficiency 90 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12692_LENASTD-BASE-CLL040



OPTICAL RESULTS (MEASURED):

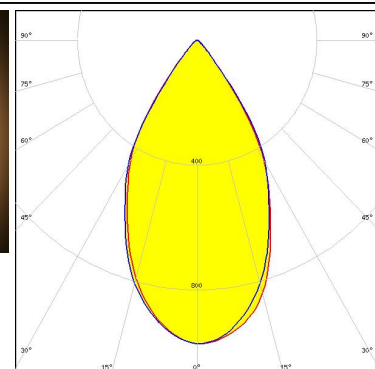
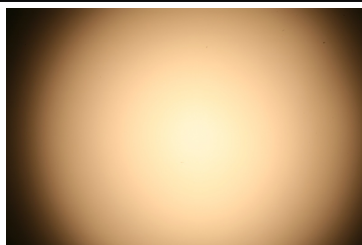
LUMILEDS

LED LUXEON CoB 1213/1216/1812
FWHM / FWTM 58.0° / 85.0°
Efficiency 84 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
A.A.G. STUCCHI: 8102-G2 + S-8000-12



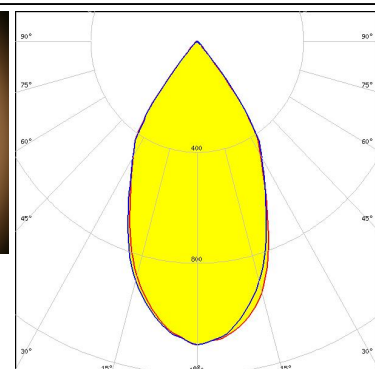
LUMILEDS

LED LUXEON K12
FWHM / FWTM 57.0° / 83.0°
Efficiency 83 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12924_LENINA-STD-BASE-LUXEON-K
C12606_LENINA-DL



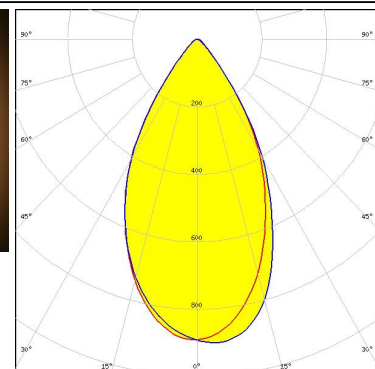
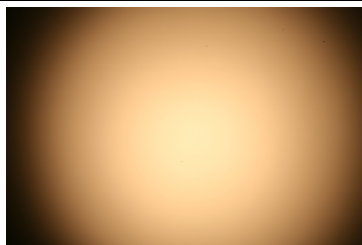
LUMILEDS

LED LUXEON K12
FWHM / FWTM 54.0° / 81.0°
Efficiency 88 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12924_LENINA-STD-BASE-LUXEON-K



LUMILEDS

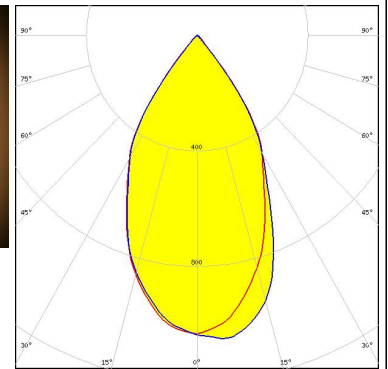
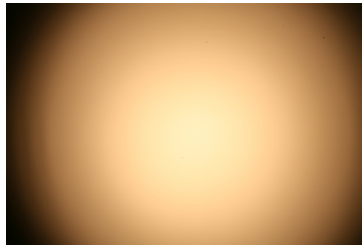
LED LUXEON K16
FWHM / FWTM 56.0° / 85.0°
Efficiency 79 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12924_LENINA-STD-BASE-LUXEON-K
C12606_LENINA-DL



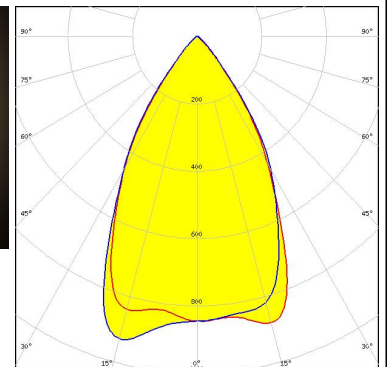
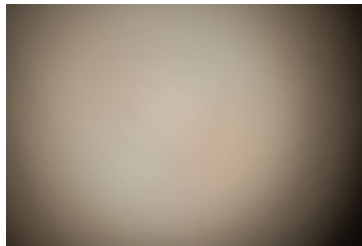
OPTICAL RESULTS (MEASURED):



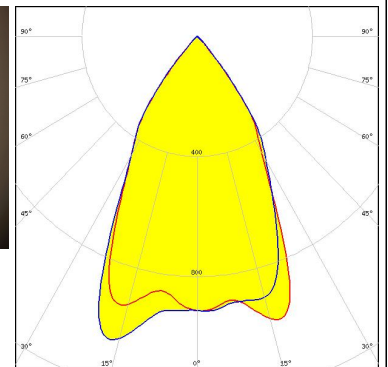
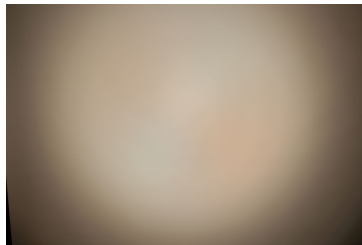
LED LUXEON K16
FWHM / FWTM 55.0° / 81.0°
Efficiency 85 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12924_LENASTD-BASE-LUXEON-K



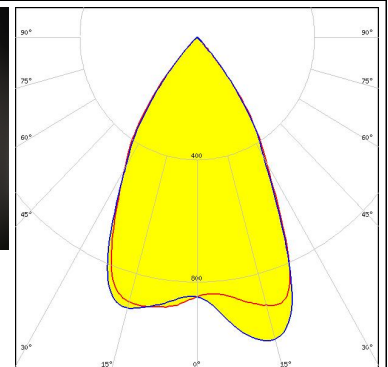
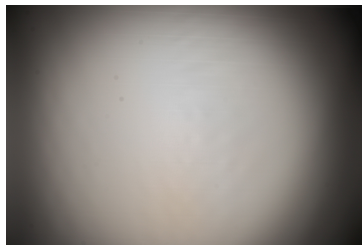
LED CDM-14 (Dim-To-Warm)
FWHM / FWTM 60.0° / 85.0°
Efficiency 86 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENASTD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 491 Typ L2



LED CDM-14 (Dim-To-Warm)
FWHM / FWTM 58.0° / 83.0°
Efficiency 91 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENASTD-BASE-VERO13-18
Bender Wirth: 491 Typ L2



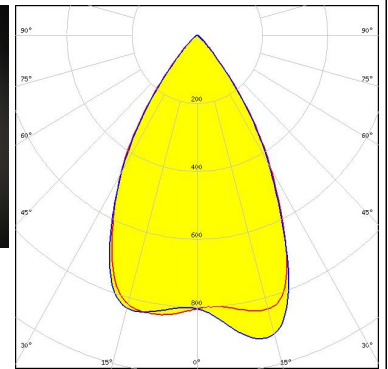
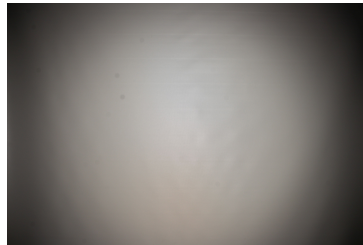
LED CDM-18 (Dim-To-Warm)
FWHM / FWTM 64.0° / 85.0°
Efficiency 91 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENASTD-BASE-VERO13-18
Bender Wirth: 491 Typ L2



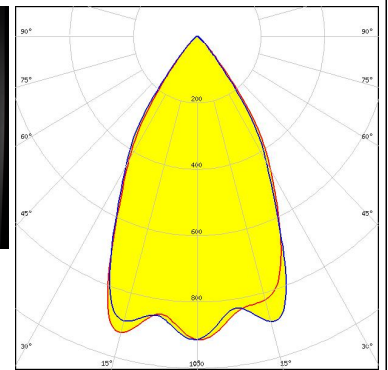
OPTICAL RESULTS (MEASURED):



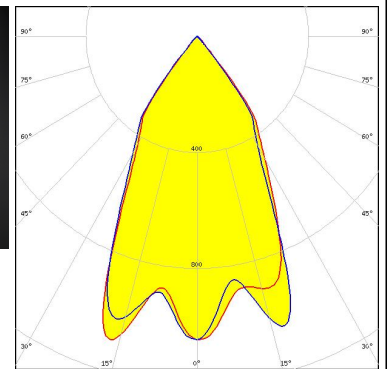
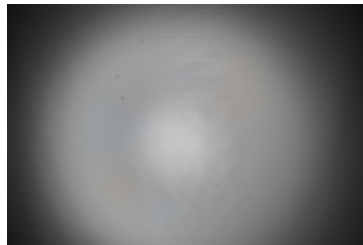
LED CDM-18 (Dim-To-Warm)
 FWHM / FWTM 62.0° / 86.0°
 Efficiency 86 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13868_LENINA-STD-BASE-VERO13-18
 C12606_LENINA-DL
 Bender Wirth: 491 Typ L2



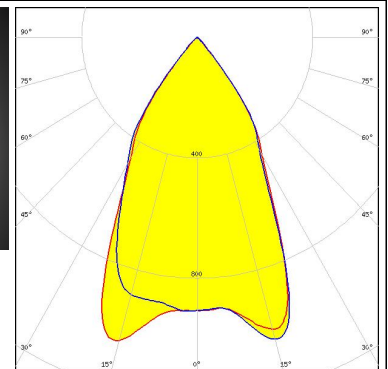
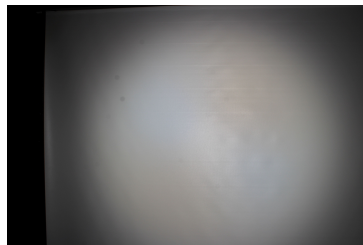
LED CDM-9 (Dim-To-Warm)
 FWHM / FWTM 59.0° / 83.0°
 Efficiency 86 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13868_LENINA-STD-BASE-VERO13-18
 C12606_LENINA-DL
 Bender Wirth: 490 Typ L1



LED CDM-9 (Dim-To-Warm)
 FWHM / FWTM 55.0° / 81.0°
 Efficiency 90 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13868_LENINA-STD-BASE-VERO13-18
 Bender Wirth: 490 Typ L1



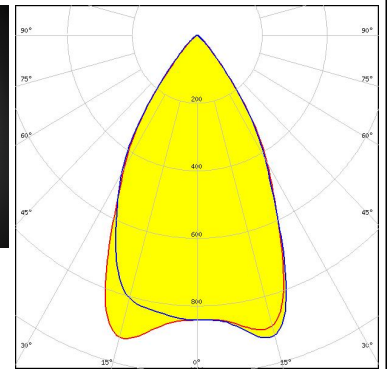
LED CTM-14 (Tunable White)
 FWHM / FWTM 58.0° / 83.0°
 Efficiency 91 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13867_LENINA-STD-BASE-VERO29
 Bender Wirth: 442 Typ L3



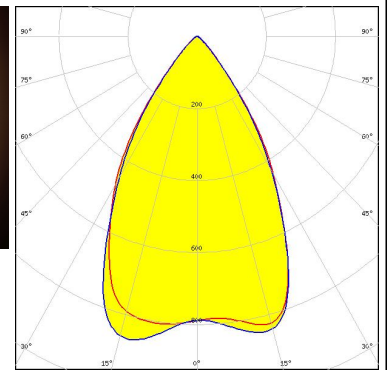
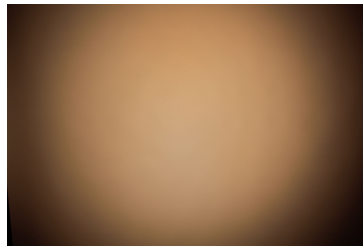
OPTICAL RESULTS (MEASURED):



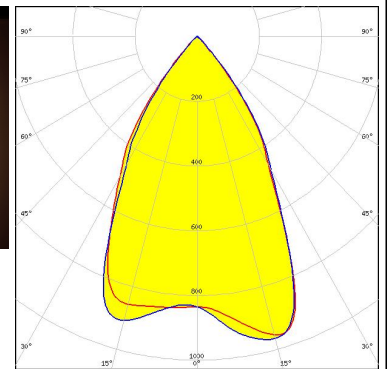
LED CTM-14 (Tunable White)
 FWHM / FWTM 60.0° / 85.0°
 Efficiency 86 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13867_LENINA-STD-BASE-VERO29
 C12606_LENINA-DL
 Bender Wirth: 442 Typ L3



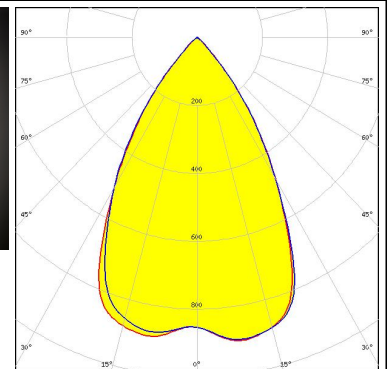
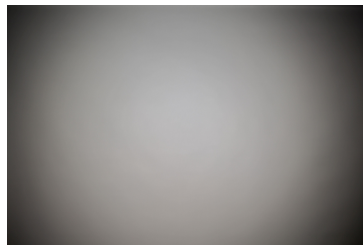
LED CTM-18 (Tunable White)
 FWHM / FWTM 63.0° / 87.0°
 Efficiency 85 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13867_LENINA-STD-BASE-VERO29
 C12606_LENINA-DL
 Bender Wirth: 442 Typ L3



LED CTM-18 (Tunable White)
 FWHM / FWTM 32.0° / 76.0°
 Efficiency 92 %
 Peak intensity 2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13867_LENINA-STD-BASE-VERO29
 Bender Wirth: 442 Typ L3



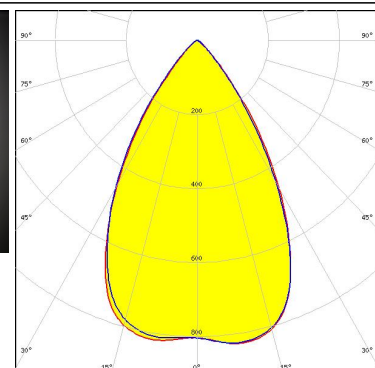
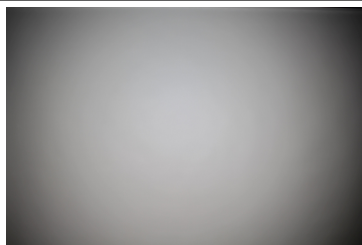
LED CTM-22 (Tunable White)
 FWHM / FWTM 63.0° / 87.0°
 Efficiency 90 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13867_LENINA-STD-BASE-VERO29
 Bender Wirth: 494 Typ L3



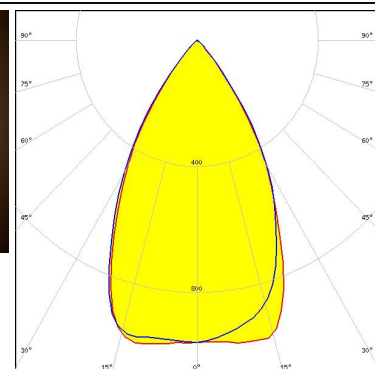
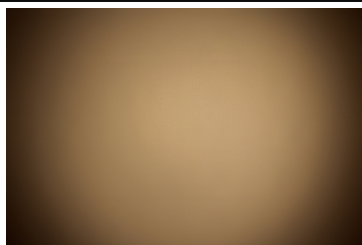
OPTICAL RESULTS (MEASURED):



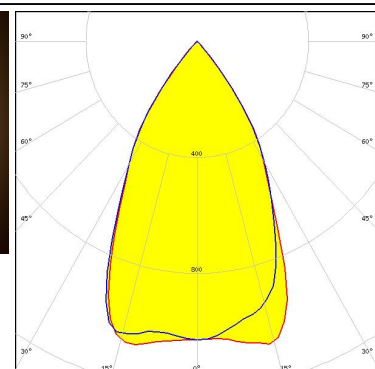
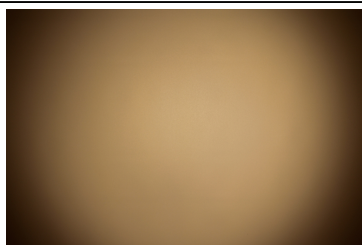
LED CTM-22 (Tunable White)
 FWHM / FWTM 63.0° / 89.0°
 Efficiency 85 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13867_LENINA-STD-BASE-VERO29
 C12606_LENINA-DL
 Bender Wirth: 494 Typ L3



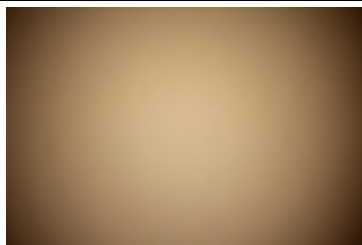
LED CxM-14 (19x19)
 FWHM / FWTM 59.0° / 84.0°
 Efficiency 88 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12691_LENINA-STD-BASE-CLL030
 C12606_LENINA-DL



LED CxM-14 (19x19)
 FWHM / FWTM 58.0° / 82.0°
 Efficiency 92 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12691_LENINA-STD-BASE-CLL030



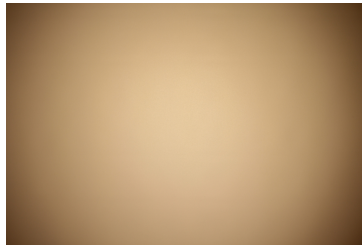
LED CxM-22 (28x28)
 FWHM / FWTM 58.0° / 86.0°
 Efficiency 87 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12692_LENINA-STD-BASE-CLL040
 C12606_LENINA-DL



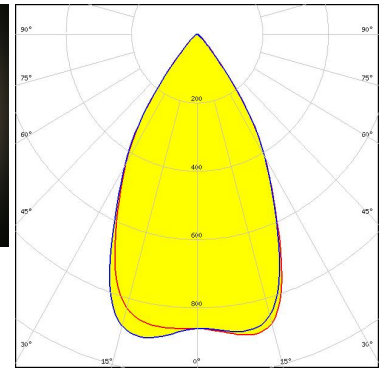
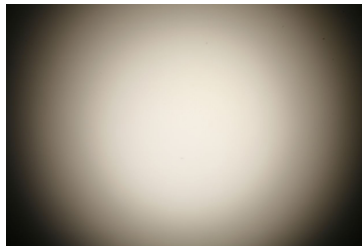
OPTICAL RESULTS (MEASURED):



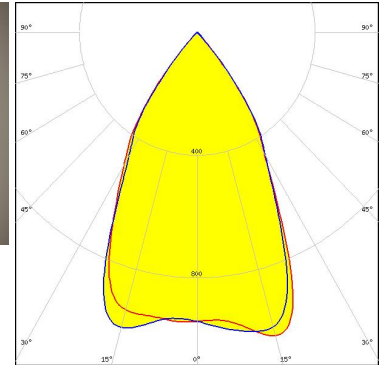
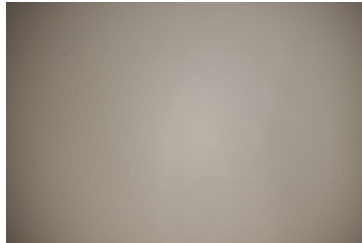
LED CxM-22 (28x28)
FWHM / FWTM 58.0° / 86.0°
Efficiency 92 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12692_LENINA-STD-BASE-CLL040



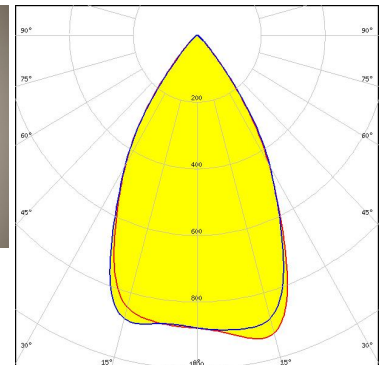
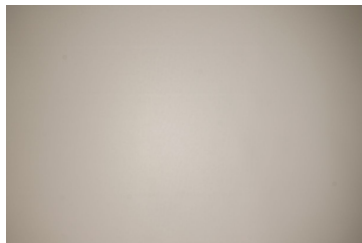
LED COB J-Type
FWHM / FWTM 59.0° / 84.0°
Efficiency 82 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12292_LENINA-STD-BASE-MEZ
C12606_LENINA-DL



LED COB J-Type
FWHM / FWTM 59.0° / 83.0°
Efficiency 91 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
Bender Wirth: 463 Typ L2



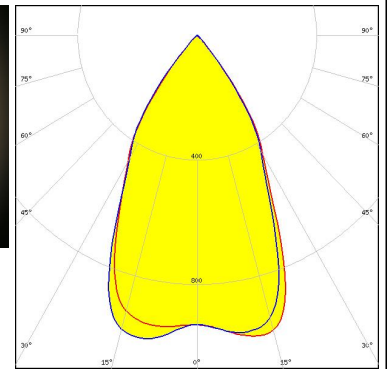
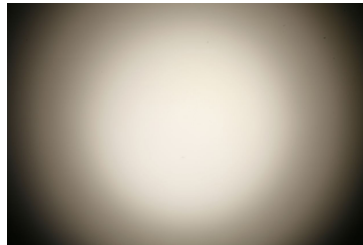
LED COB J-Type
FWHM / FWTM 59.0° / 84.0°
Efficiency 87 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 463 Typ L2



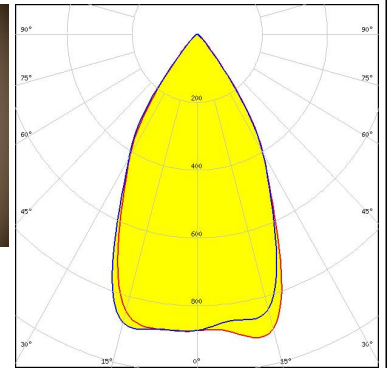
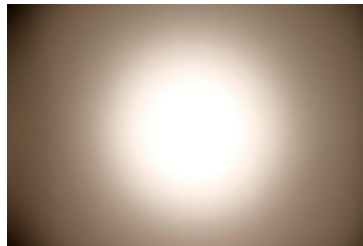
OPTICAL RESULTS (MEASURED):



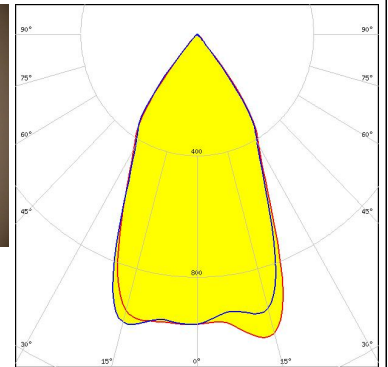
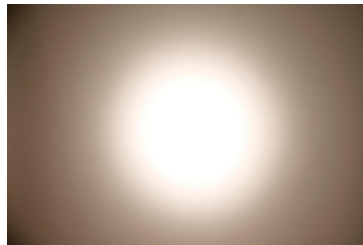
LED COB J-Type
FWHM / FWTM 58.0° / 82.0°
Efficiency 86 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12292_LENINA-STD-BASE-MEZ



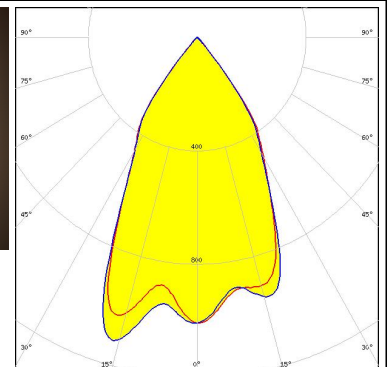
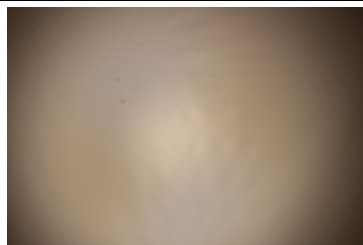
LED COB L-Type (LES 11)
FWHM / FWTM 58.0° / 82.0°
Efficiency 80 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C11981_LENINA-STD-BASE-COB-L110
C12606_LENINA-DL



LED COB L-Type (LES 11)
FWHM / FWTM 56.0° / 81.0°
Efficiency 85 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C11981_LENINA-STD-BASE-COB-L110



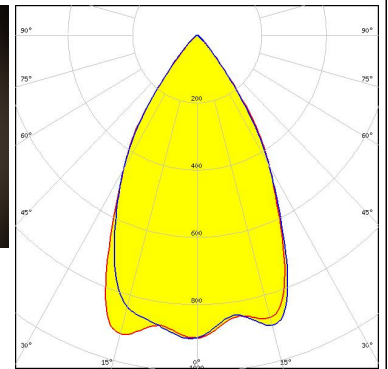
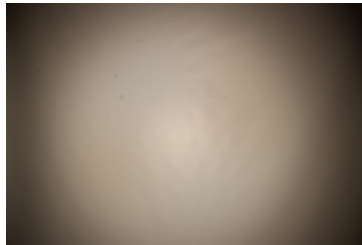
LED NVCWJ024Z-V1MT: COB J-Type Tunable White
FWHM / FWTM 56.0° / 81.0°
Efficiency 91 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
Bender Wirth: 498 Typ L2



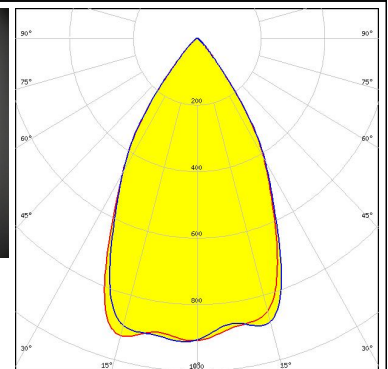
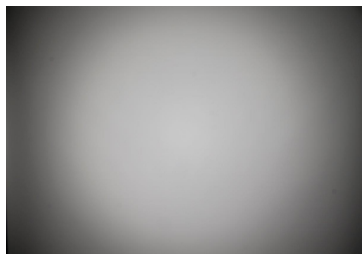
OPTICAL RESULTS (MEASURED):



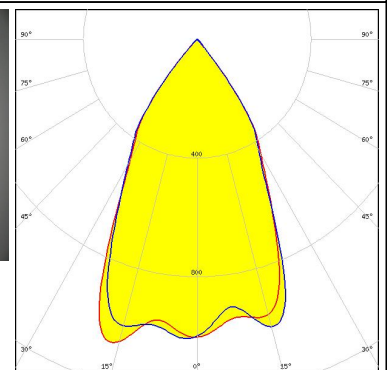
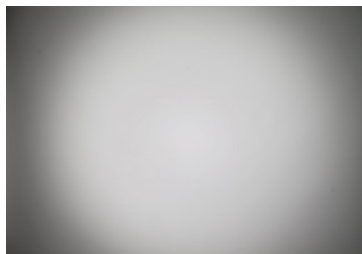
LED NVCWJ024Z-V1MT: COB J-Type Tunable White
 FWHM / FWTM 60.0° / 84.0°
 Efficiency 86 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13868_LENASTD-BASE-VERO13-18
 C12606_LENINA-DL
 Bender Wirth: 498 Typ L2



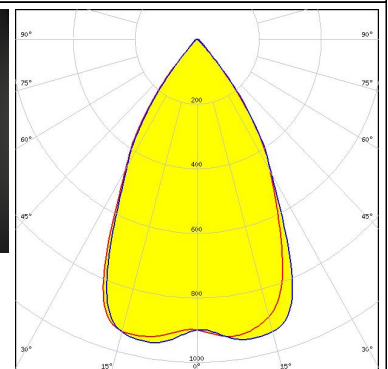
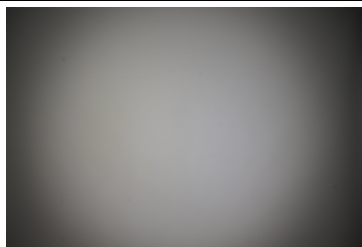
LED Soleriq S13
 FWHM / FWTM 59.0° / 83.0°
 Efficiency 86 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13868_LENASTD-BASE-VERO13-18
 C12606_LENINA-DL
 Bender Wirth: 437 Typ L1



LED Soleriq S13
 FWHM / FWTM 56.0° / 81.0°
 Efficiency 90 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13868_LENASTD-BASE-VERO13-18
 Bender Wirth: 437 Typ L1



LED Soleriq S19
 FWHM / FWTM 60.0° / 84.0°
 Efficiency 92 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13867_LENASTD-BASE-VERO29
 Bender Wirth: 462 Typ L3



OPTICAL RESULTS (MEASURED):

OSRAM

Opto Semiconductors

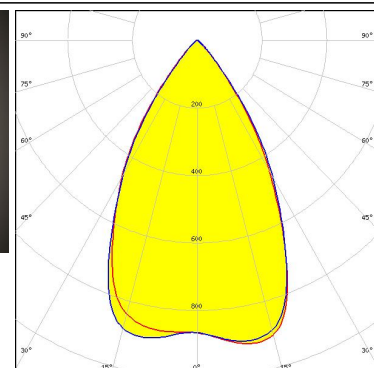
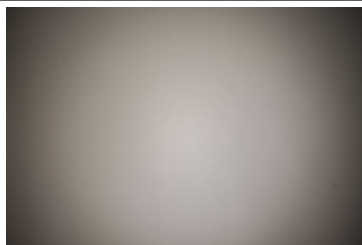
LED Soleriq S19
FWHM / FWTM 60.0° / 85.0°
Efficiency 87 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White

Required components:

C13867_LENINA-STD-BASE-VERO29

C12606_LENINA-DL

Bender Wirth: 462 Typ L3

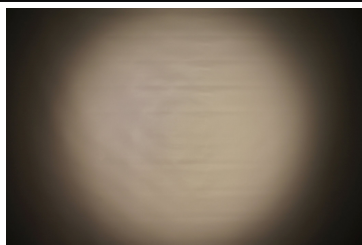


PHILIPS

LED Fortimo SLM L13 CoB
FWHM / FWTM 57.0° / 81.0°
Efficiency 92 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White

Required components:

C12292_LENINA-STD-BASE-MEZ



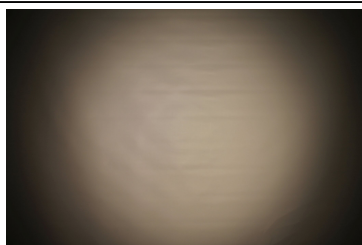
PHILIPS

LED Fortimo SLM L13 CoB
FWHM / FWTM 57.0° / 83.0°
Efficiency 85 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White

Required components:

C12292_LENINA-STD-BASE-MEZ

C12606_LENINA-DL

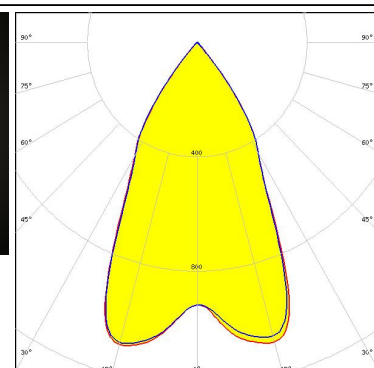
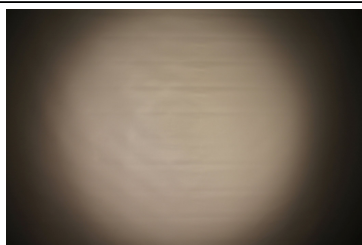


PHILIPS

LED Fortimo SLM L15 CoB
FWHM / FWTM 59.0° / 82.0°
Efficiency 91 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White

Required components:

C12292_LENINA-STD-BASE-MEZ



OPTICAL RESULTS (MEASURED):

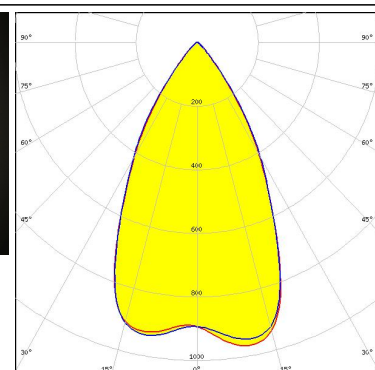
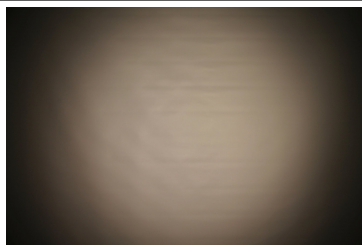
PHILIPS

LED Fortimo SLM L15 CoB
FWHM / FWTM 56.0° / 83.0°
Efficiency 85 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White

Required components:

C12292_LENINA-STD-BASE-MEZ

C12606_LENINA-DL



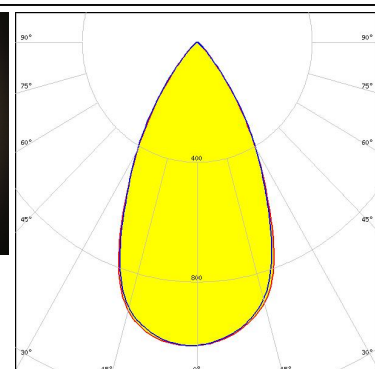
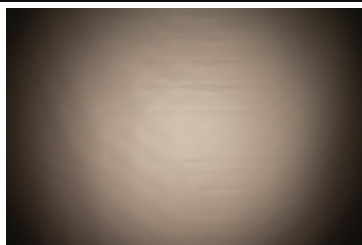
PHILIPS

LED Fortimo SLM L19 CoB
FWHM / FWTM 54.0° / 83.0°
Efficiency 86 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White

Required components:

C12692_LENINA-STD-BASE-CLL040

C12606_LENINA-DL

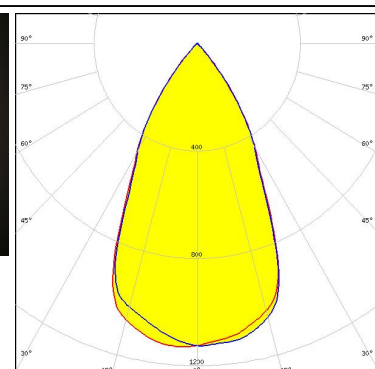
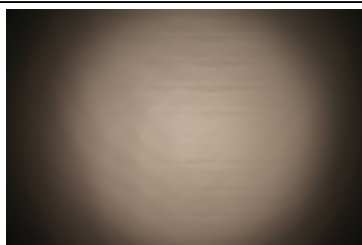


PHILIPS

LED Fortimo SLM L19 CoB
FWHM / FWTM 53.0° / 81.0°
Efficiency 91 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White

Required components:

C12692_LENINA-STD-BASE-CLL040



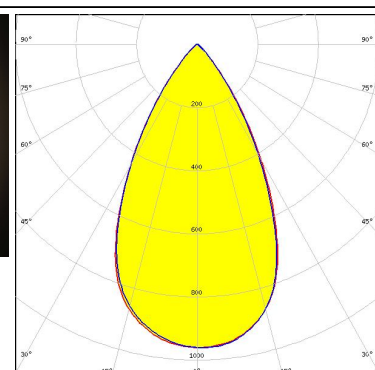
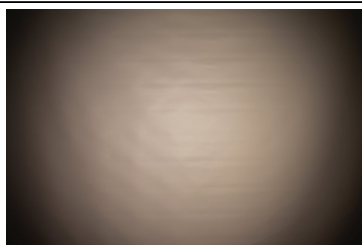
PHILIPS

LED Fortimo SLM L23 CoB
FWHM / FWTM 57.0° / 84.0°
Efficiency 85 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White

Required components:

C12292_LENINA-STD-BASE-MEZ

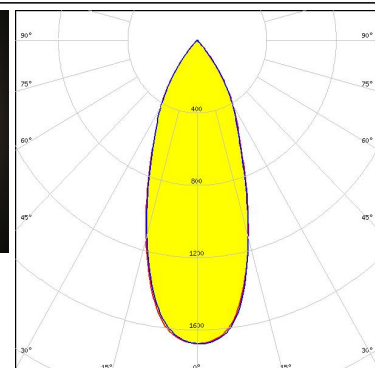
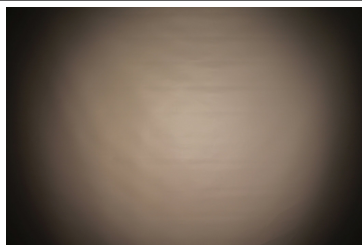
C12606_LENINA-DL



OPTICAL RESULTS (MEASURED):

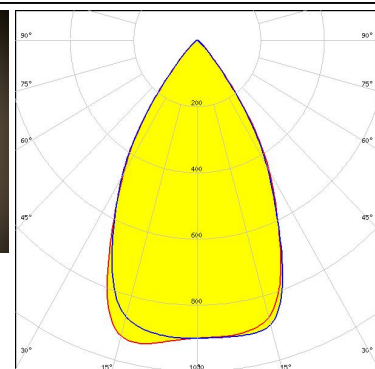
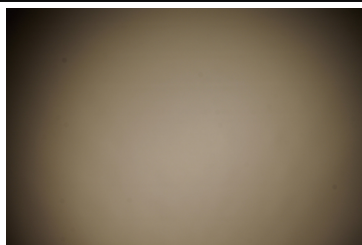
PHILIPS

LED Fortimo SLM L23 CoB
FWHM / FWTM 39.0° / 76.0°
Efficiency 92 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12692_LENINA-STD-BASE-CLL040



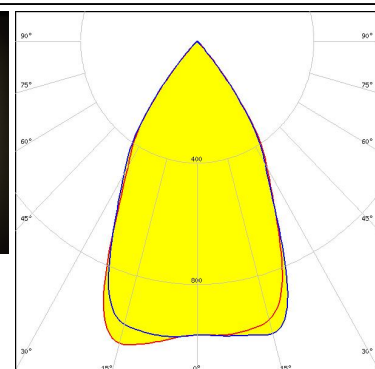
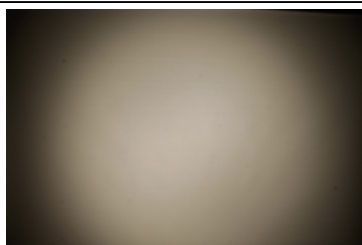
SAMSUNG

LED LC016D / LC019D / LC026D / LC033D
FWHM / FWTM 59.0° / 84.0°
Efficiency 87 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12691_LENINA-STD-BASE-CLL030
C12606_LENINA-DL



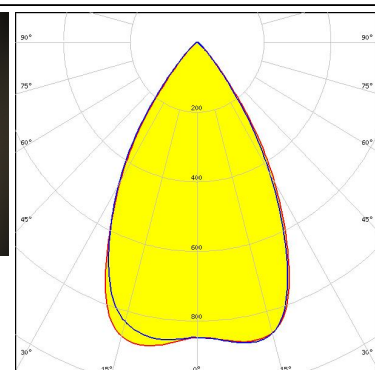
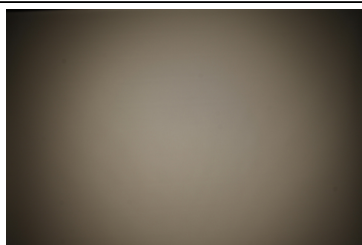
SAMSUNG

LED LC016D / LC019D / LC026D / LC033D
FWHM / FWTM 57.0° / 82.0°
Efficiency 91 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12691_LENINA-STD-BASE-CLL030



SAMSUNG

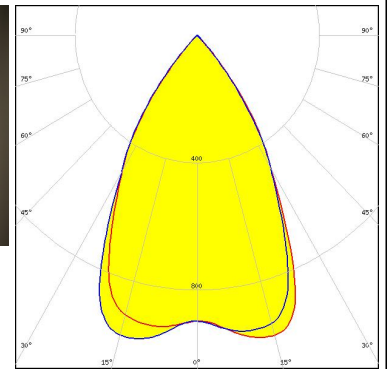
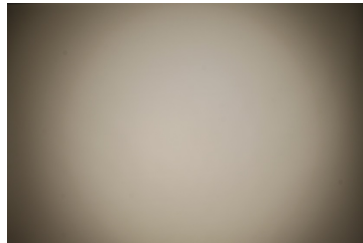
LED LC026B / 033B / 040B
FWHM / FWTM 61.0° / 85.0°
Efficiency 86 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 450 Typ L2



OPTICAL RESULTS (MEASURED):

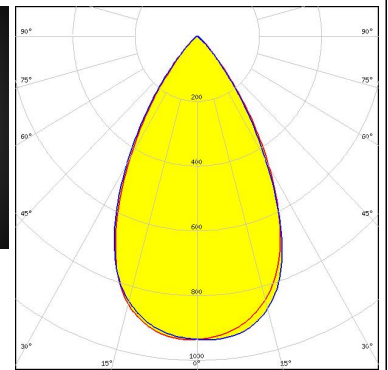
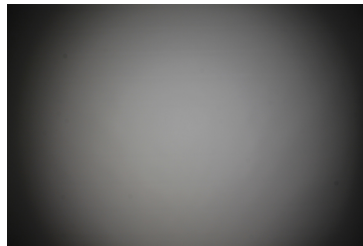
SAMSUNG

LED LC026B / 033B / 040B
FWHM / FWTM 61.0° / 84.0°
Efficiency 91 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
Bender Wirth: 450 Typ L2



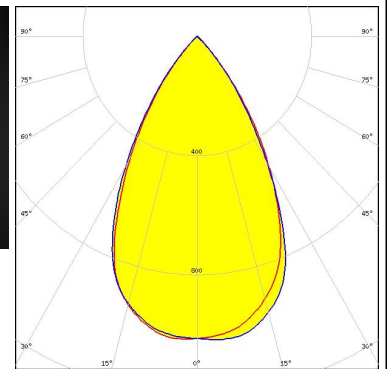
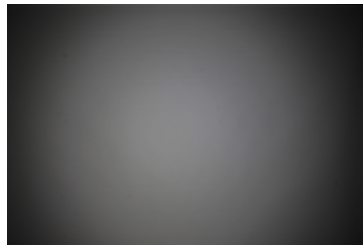
SAMSUNG

LED LC040D / LC060D / LC080D
FWHM / FWTM 59.0° / 85.0°
Efficiency 86 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12692_LENINA-STD-BASE-CLL040
C12606_LENINA-DL



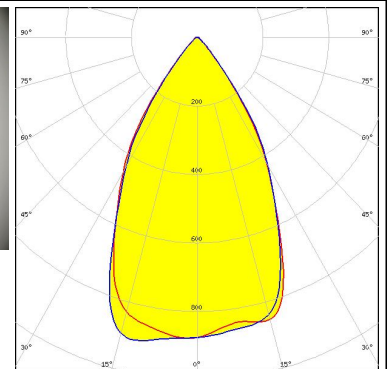
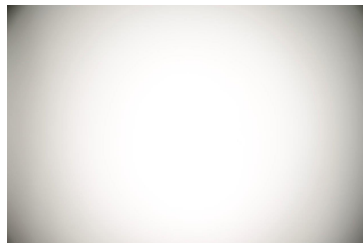
SAMSUNG

LED LC040D / LC060D / LC080D
FWHM / FWTM 59.0° / 84.0°
Efficiency 91 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12692_LENINA-STD-BASE-CLL040

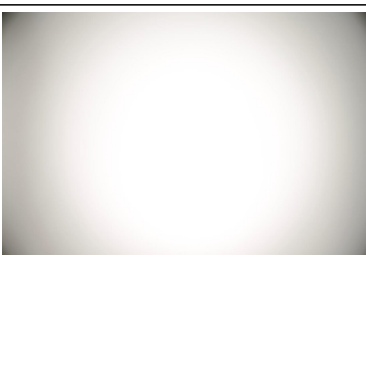
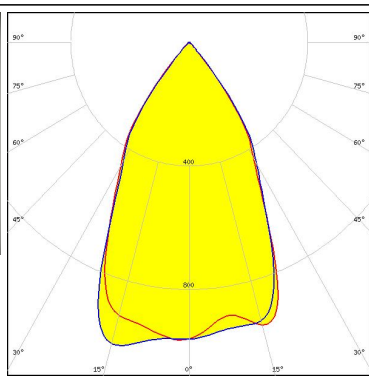
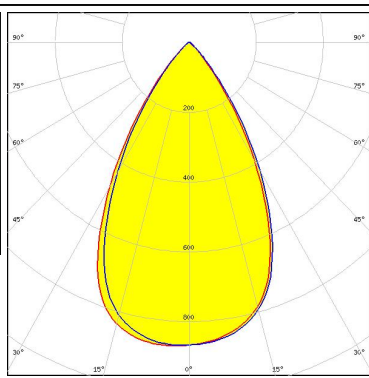
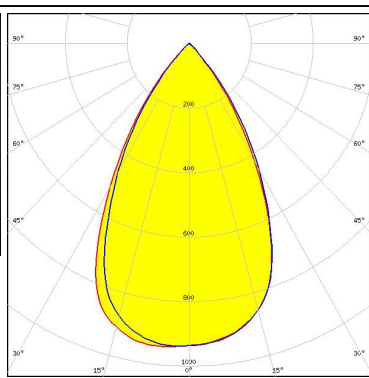


SEOL SEMICONDUCTOR

LED ZC12/18
FWHM / FWTM 59.0° / 84.0°
Efficiency 84 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12691_LENINA-STD-BASE-CLL030
C12606_LENINA-DL



OPTICAL RESULTS (MEASURED):

SEOUL SEMICONDUCTOR LED ZC12/18 FWHM / FWTM 57.0° / 82.0° Efficiency 88 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White Required components: C12691_LENINA-STD-BASE-CLL030		
SEOUL SEMICONDUCTOR LED ZC25/40/60 FWHM / FWTM 60.0° / 86.0° Efficiency 82 % Peak intensity 0.9 cd/lm LEDs/each optic 1 Light colour White Required components: C12692_LENINA-STD-BASE-CLL040 C12606_LENINA-DL		
SEOUL SEMICONDUCTOR LED ZC25/40/60 FWHM / FWTM 60.0° / 85.0° Efficiency 86 % Peak intensity 0.9 cd/lm LEDs/each optic 1 Light colour White Required components: C12692_LENINA-STD-BASE-CLL040		
SHARP LED Mega Zenigata (GW5DGC) FWHM / FWTM 41.0° / 77.0° Efficiency 86 % LEDs/each optic 1 Light colour White Required components: C12292_LENINA-STD-BASE-MEZ		

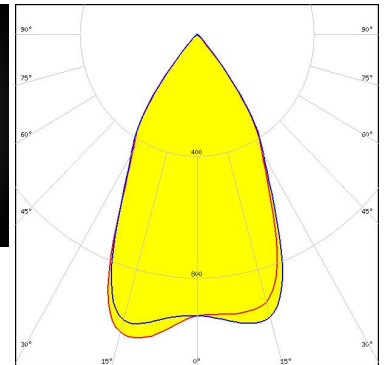
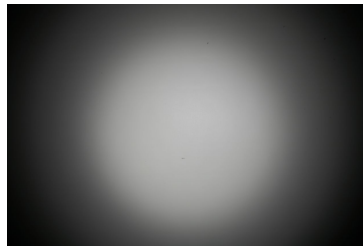
OPTICAL RESULTS (MEASURED):

SHARP

LED Mega Zenigata (GW5DGC)
 FWHM / FWTM 45.0° / 80.0°
 Efficiency 78 %
 LEDs/each optic 1
 Light colour White
 Required components:
 C12292_LENINA-STD-BASE-MEZ
 C12606_LENINA-DL

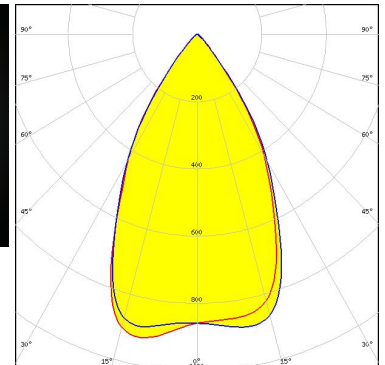
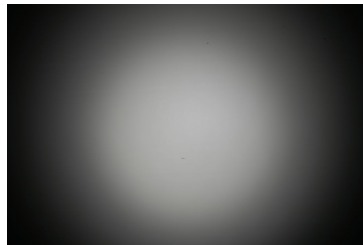
SHARP

LED Mega Zenigata (GW6DME)
 FWHM / FWTM 57.0° / 82.0°
 Efficiency 87 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12292_LENINA-STD-BASE-MEZ



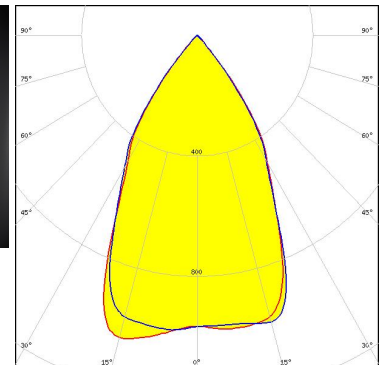
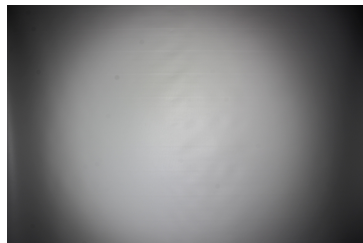
SHARP

LED Mega Zenigata (GW6DME)
 FWHM / FWTM 59.0° / 83.0°
 Efficiency 83 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12292_LENINA-STD-BASE-MEZ
 C12606_LENINA-DL



TRIDONIC

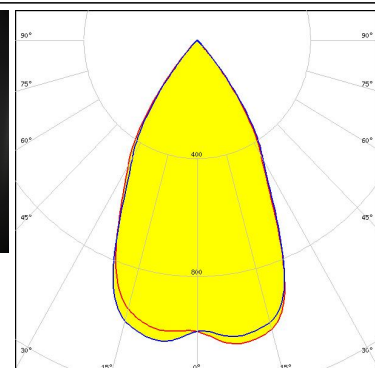
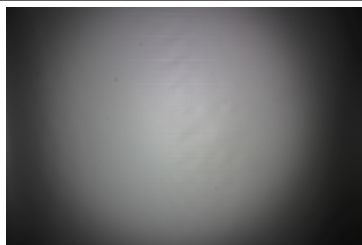
LED SLE G7 LES15
 FWHM / FWTM 59.0° / 82.0°
 Efficiency 92 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12691_LENINA-STD-BASE-CLL030



OPTICAL RESULTS (MEASURED):

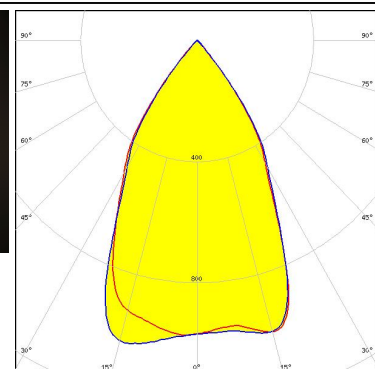
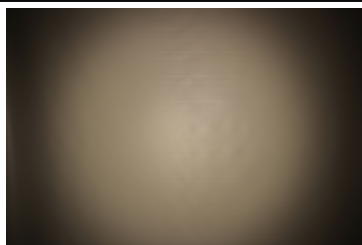
TRIDONIC

LED SLE G7 LES17 H
FWHM / FWTM 56.0° / 82.0°
Efficiency 90 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14547_LENINA-ADAPTER-B



XICATO

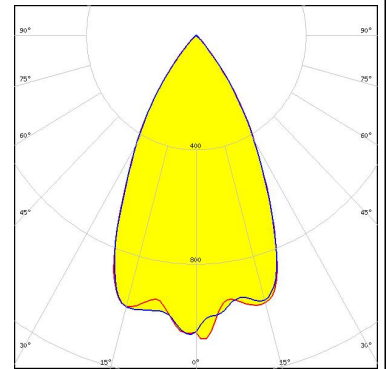
LED XOB 14.5 mm
FWHM / FWTM 58.0° / 82.0°
Efficiency 91 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12691_LENINA-STD-BASE-CLL030



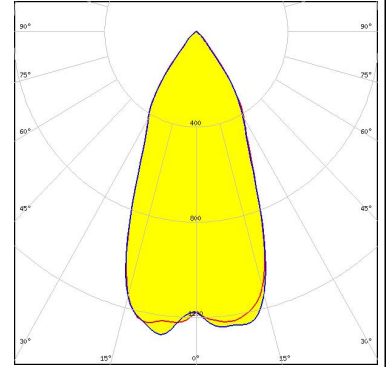
OPTICAL RESULTS (SIMULATED):



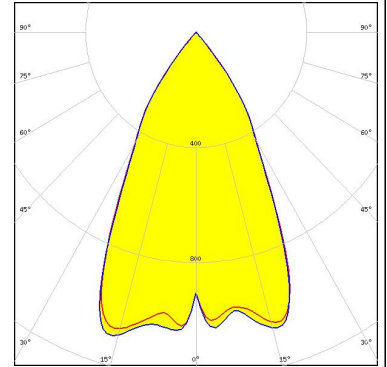
LED V10 Gen7
FWHM / FWTM 55.0° / 81.0°
Efficiency 85 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 486 Typ L1



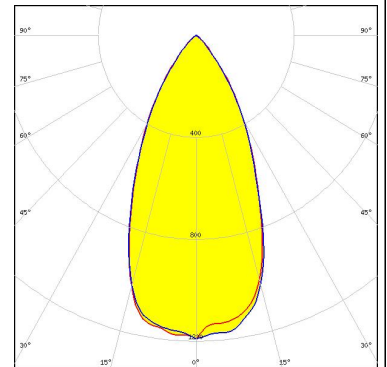
LED V13 Gen7
FWHM / FWTM 46.0° / 79.0°
Efficiency 90 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2103CT + 50-2100AN



LED V13 Gen7
FWHM / FWTM 50.0° / 79.0°
Efficiency 90 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
Bender Wirth: 477 Typ L1



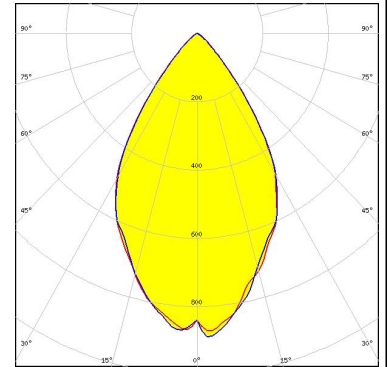
LED V13 Gen7
FWHM / FWTM 48.0° / 82.0°
Efficiency 88 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12606_LENINA-DL
IDEAL: 50-2103CT + 50-2100AN



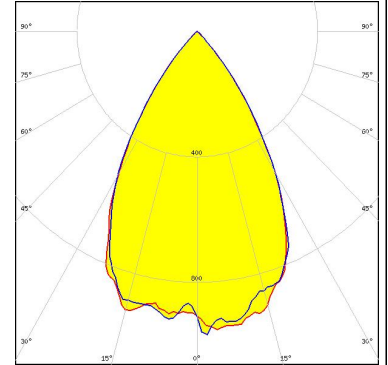
OPTICAL RESULTS (SIMULATED):



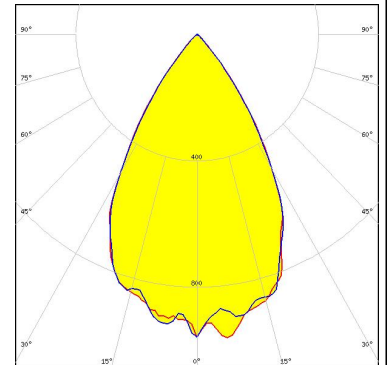
LED V13 Gen7
FWHM / FWTM 63.0° / 91.0°
Efficiency 87 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 477 Typ L1



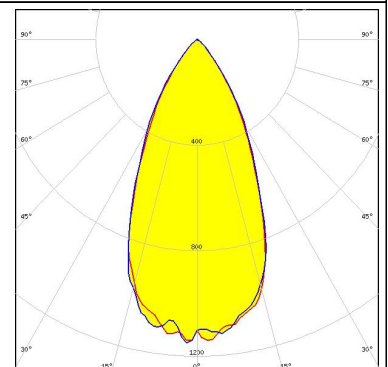
LED V22 Gen7
FWHM / FWTM 61.0° / 84.0°
Efficiency 90 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13867_LENINA-STD-BASE-VERO29
Bender Wirth: 431 Typ L3



LED V22 Gen7
FWHM / FWTM 61.0° / 82.0°
Efficiency 87 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13867_LENINA-STD-BASE-VERO29
C12606_LENINA-DL
Bender Wirth: 431 Typ L3



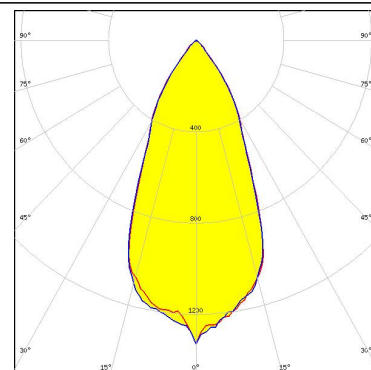
LED CXA/B 30xx
FWHM / FWTM 49.0° / 81.0°
Efficiency 84 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12606_LENINA-DL
IDEAL: 50-2234C + 50-2100LN



OPTICAL RESULTS (SIMULATED):



LED CXA/B 30xx
FWHM / FWTM 46.0° / 80.0°
Efficiency 89 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2234C + 50-2100LN



LED CxM-14 (19x19)
FWHM / FWTM 57.0° / 82.0°
Efficiency 90 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
Bender Wirth: 433 Typ L1



LED CxM-14 (19x19)
FWHM / FWTM 60.0° / 83.0°
Efficiency 86 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 433 Typ L1



LED CxM-9 (13.5x13.5)
FWHM / FWTM 57.0° / 82.0°
Efficiency 86 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 434 Typ L1

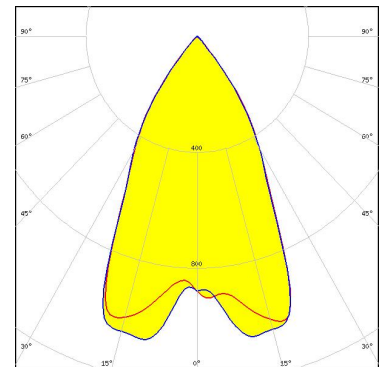
OPTICAL RESULTS (SIMULATED):



LED CxM-9 (13.5x13.5)
 FWHM / FWTM 54.0° / 80.0°
 Efficiency 90 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13868_LENINA-STD-BASE-VERO13-18



LED Soleriq S15
 FWHM / FWTM 56.0° / 81.0°
 Efficiency 90 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12691_LENINA-STD-BASE-CLL030



LED ZC12/18
 FWHM / FWTM 57.0° / 82.0°
 Efficiency 90 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13868_LENINA-STD-BASE-VERO13-18
 Bender Wirth: 433 Typ L1



LED ZC12/18
 FWHM / FWTM 60.0° / 83.0°
 Efficiency 86 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13868_LENINA-STD-BASE-VERO13-18
 C12606_LENINA-DL
 Bender Wirth: 433 Typ L1

OPTICAL RESULTS (SIMULATED):

 SEOUL SEMICONDUCTOR	
LED	ZC4/6
FWHM / FWTM	54.0° / 80.0°
Efficiency	90 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13868_LENINA-STD-BASE-VERO13-18	
Bender Wirth: 434 Typ L1	

 SEOUL SEMICONDUCTOR	
LED	ZC4/6
FWHM / FWTM	57.0° / 82.0°
Efficiency	86 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13868_LENINA-STD-BASE-VERO13-18	
C12606_LENINA-DL	
Bender Wirth: 434 Typ L1	

GENERAL INFORMATION:

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

Due to use of high power COB's with this product, special attention to proper thermal design is highly recommended. LEDiL has no liability for direct, indirect or consecutive damages arising from the LEDiL products being used outside of the recommended temperature range.

MATERIALS:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

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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