

LENINA-W

~55° wide beam

TECHNICAL SPECIFICATIONS:

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

MATERIAL SPECIFICATIONS:

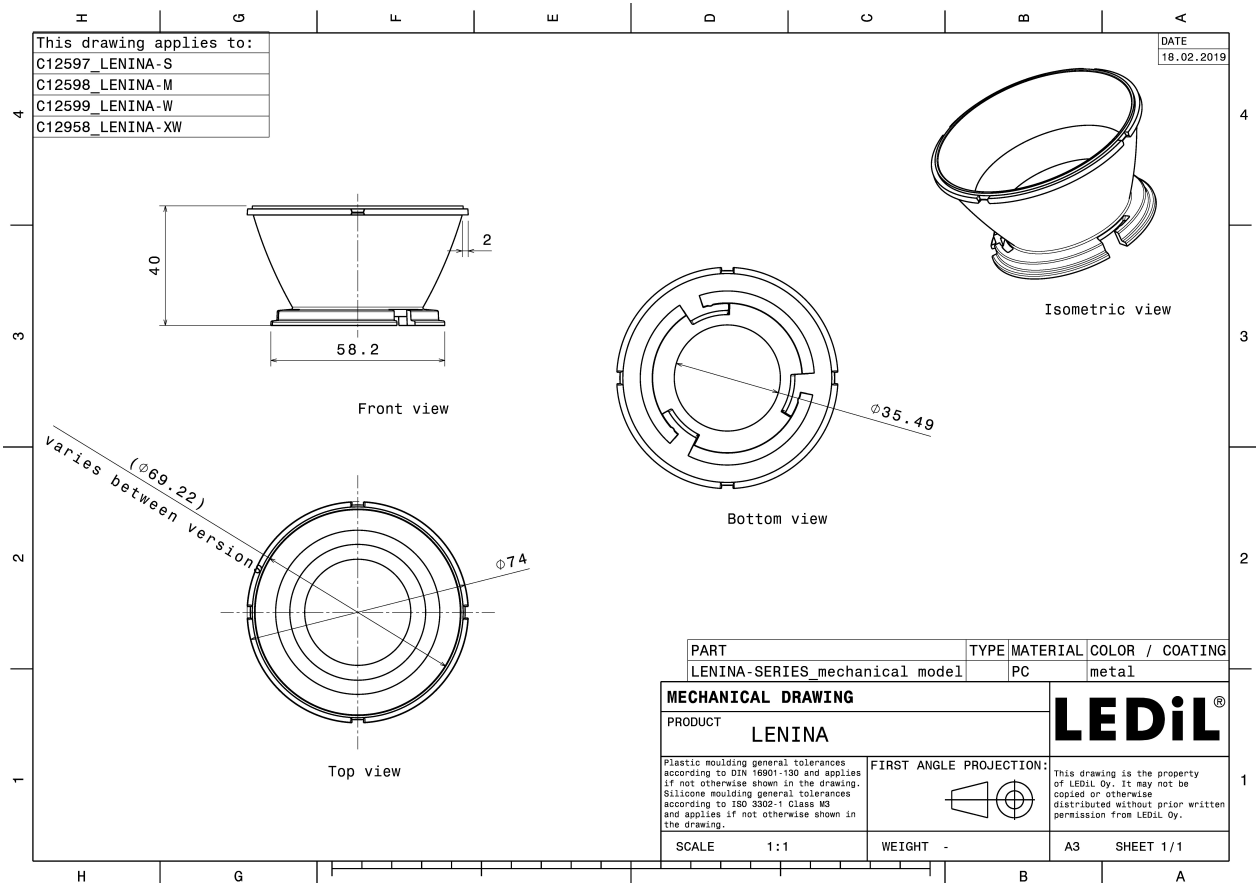
Component	Type	Material
LENINA-W	Reflector	PC



Colour	Finish	Coating
metal		lacquer

ORDERING INFORMATION:

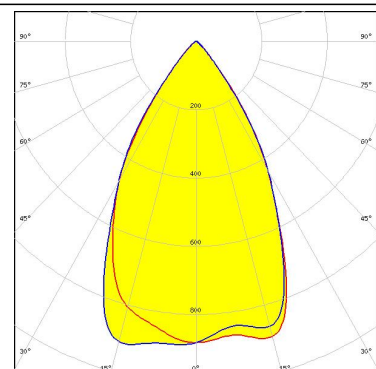
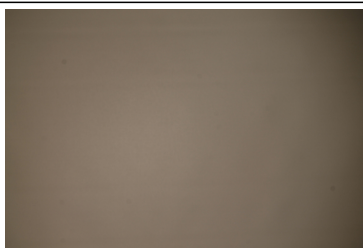
Component	Qty in box	MOQ	MPQ	Box weight (kg)
C12599_LENINA-W	60	120	60	2.0
» Box size: 476 x 273 x 197 mm				



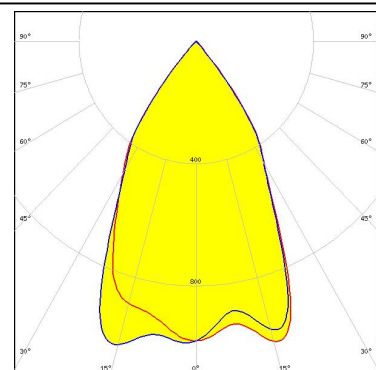
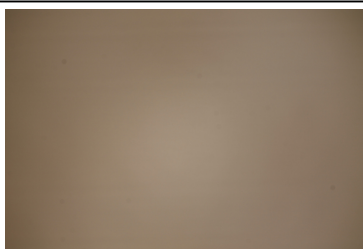
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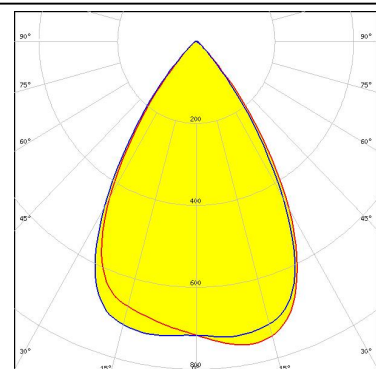
LED BXRA ES Rectangle
FWHM 60.0°
Efficiency 86 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12153_LENINA-STD-BASE-BXRA
C12606_LENINA-DL



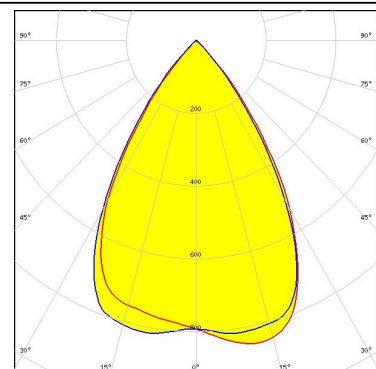
LED BXRA ES Rectangle
FWHM 58.0°
Efficiency 91 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12153_LENINA-STD-BASE-BXRA



LED BXRA RS
FWHM 60.0°
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



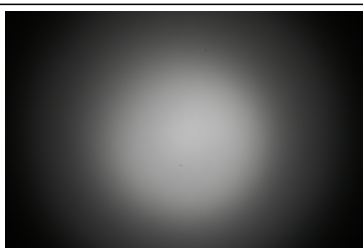
LED BXRA RS
FWHM 64.0°
Efficiency 88 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12229_LENINA-STD-BASE-RS



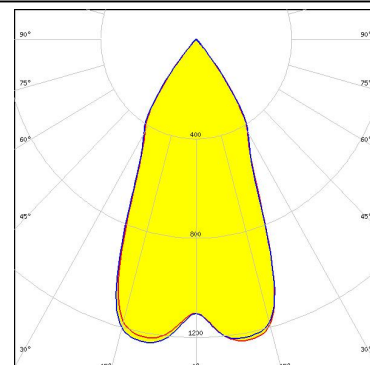
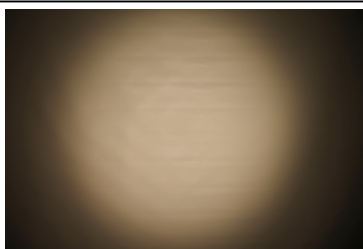
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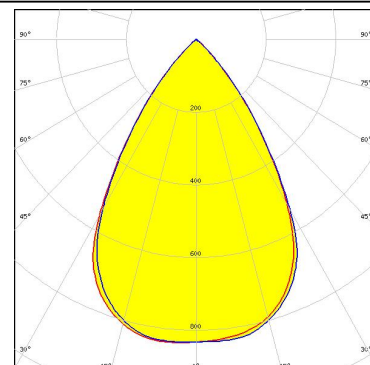
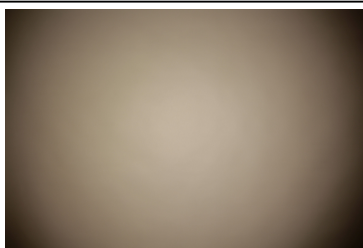
LED V10 Gen6
FWHM 47.0°
Efficiency 83 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13186_LENINA-STD-BASE-CXA15
C12606_LENINA-DL



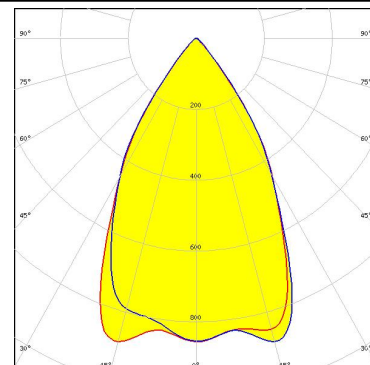
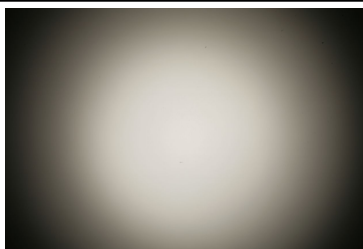
LED V4 HD
FWHM 48.0°
Efficiency 91 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14146_LENINA-STD-BASE-CXA18



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



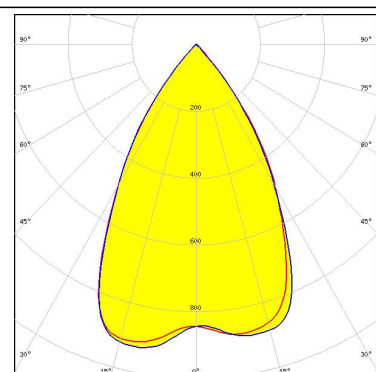
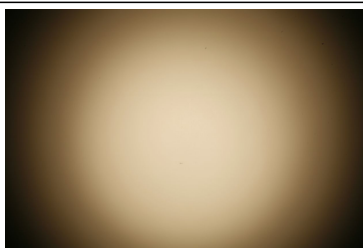
LED VERO13
FWHM 60.0°
Efficiency 85 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL



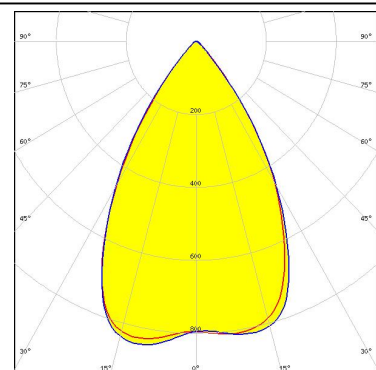
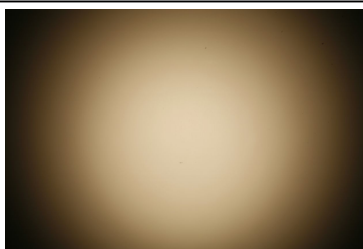
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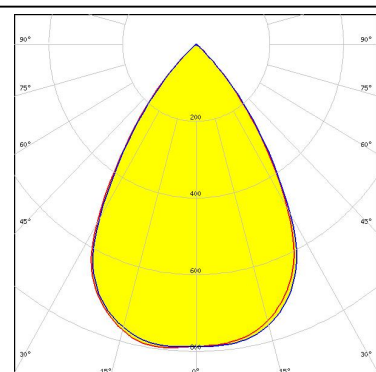
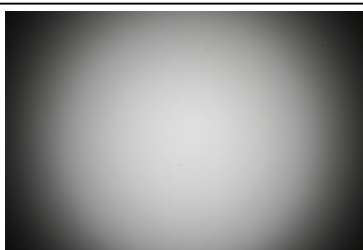
LED VERO18
FWHM 64.0°
Efficiency 89 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18



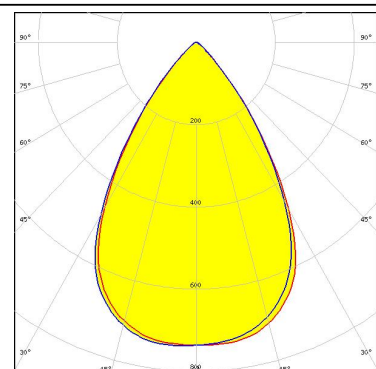
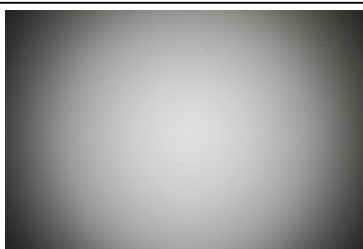
LED VERO18
FWHM 64.0°
Efficiency 85 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL



LED VERO29
FWHM 67.0°
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 67.0°
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



PHOTOMETRIC DATA (MEASURED):

CITIZEN

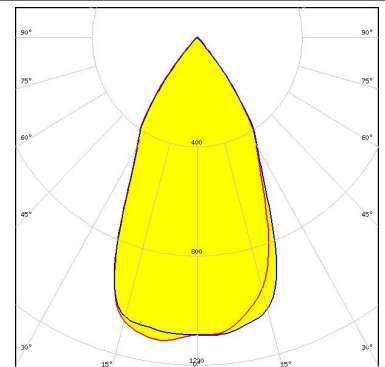
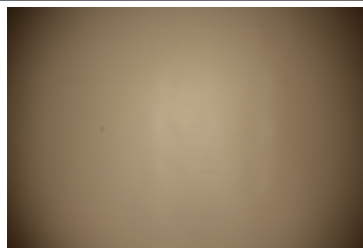
LED CL-L340
FWHM 50.0°
Efficiency 78 %
LEDs/each optic 1
Light colour White
Required components:
C11995_LENINA-STD-BASE-CL340
C12606_LENINA-DL

CITIZEN

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

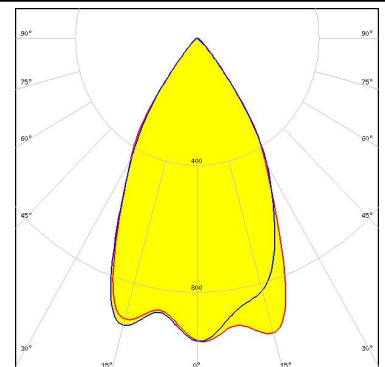
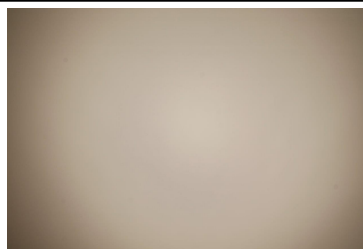
CITIZEN

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



CITIZEN

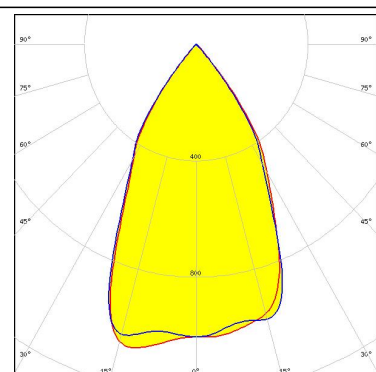
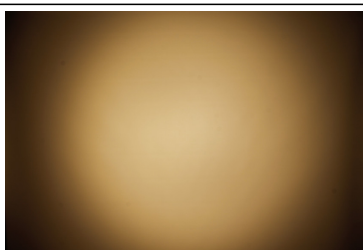
LED CLL02x/CLU02x (LES10)
FWHM 57.0°
Efficiency 86 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 434 Typ L1



PHOTOMETRIC DATA (MEASURED):

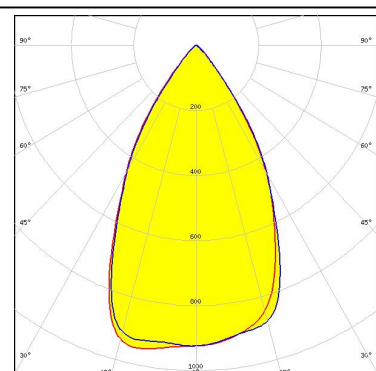
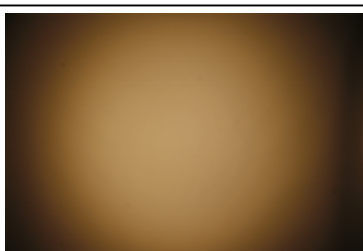
CITIZEN

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



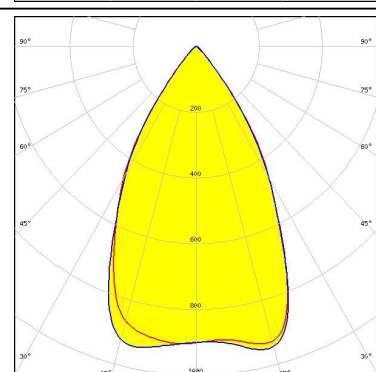
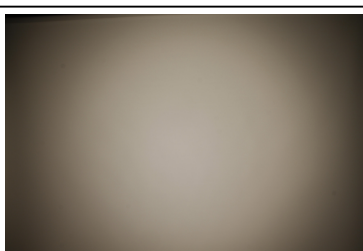
CITIZEN

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



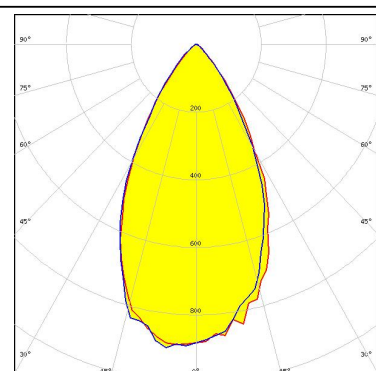
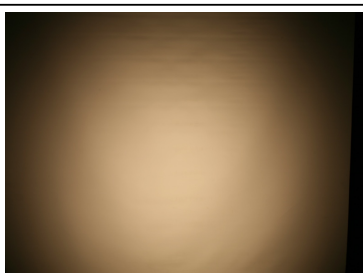
CITIZEN

LED CLL03x/CLU03x
FWHM 60.0°
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

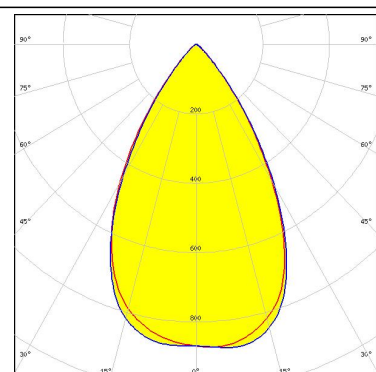
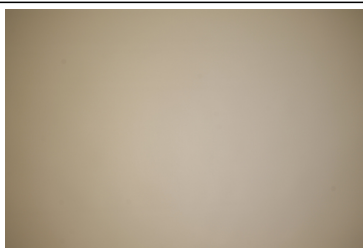
LED CLL04x/CLU04x
FWHM 56.0°
Efficiency 76 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12692_LENINA-STD-BASE-CLL040
C12606_LENINA-DL



PHOTOMETRIC DATA (MEASURED):

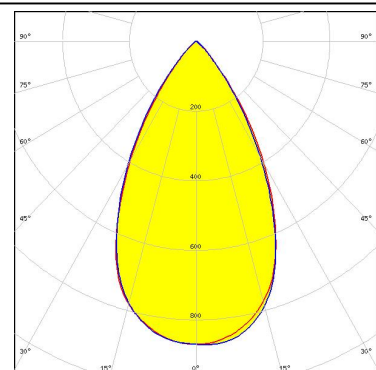
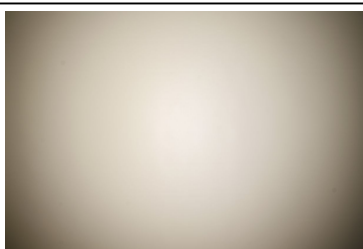
CITIZEN

LED CLL04x/CLU04x
FWHM 61.0°
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



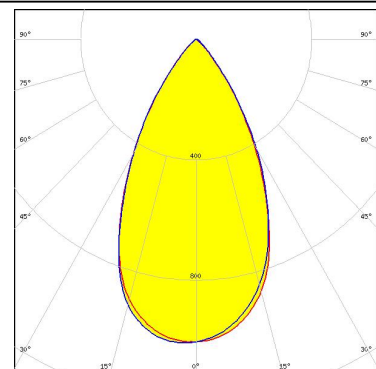
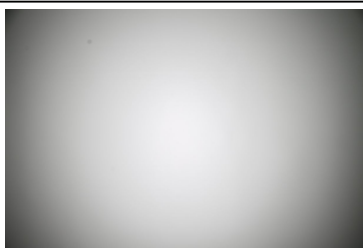
CITIZEN

LED CLL04x/CLU04x
FWHM 58.0°
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



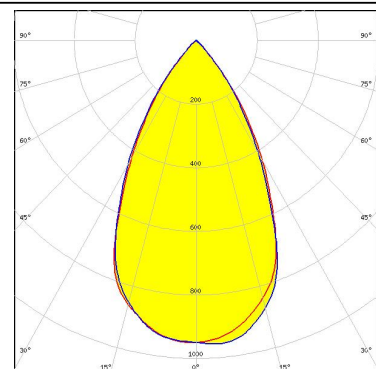
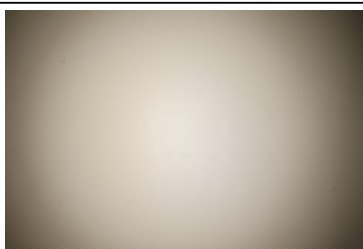
CITIZEN

LED CLL04x/CLU04x
FWHM 55.0°
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

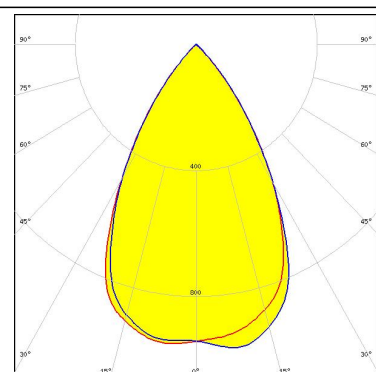
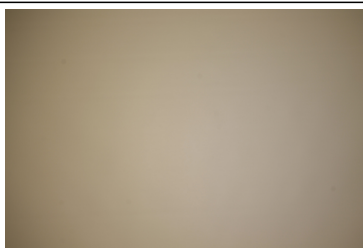
LED CLL04x/CLU04x
FWHM 57.0°
Efficiency 82 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
A.A.G. STUCCHI: 8102/G2 + S-8000/12



PHOTOMETRIC DATA (MEASURED):

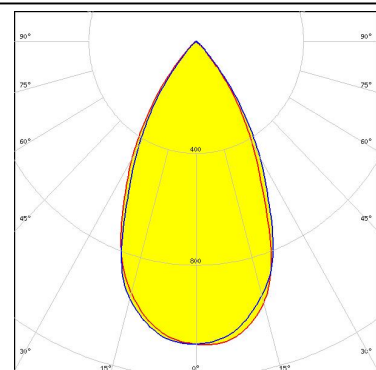
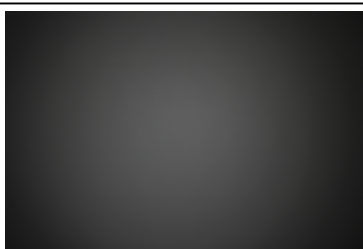
CITIZEN

LED CLL04x/CLU04x
FWHM 61.0°
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



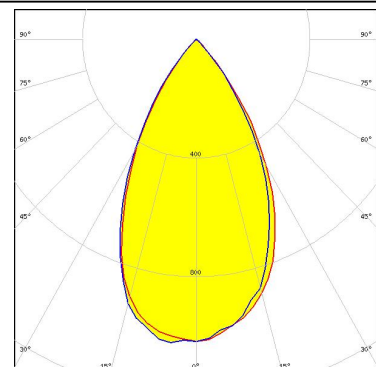
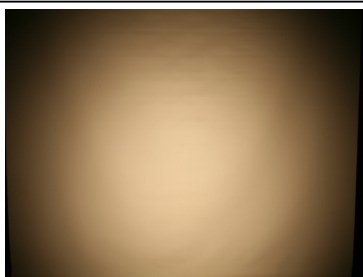
CITIZEN

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



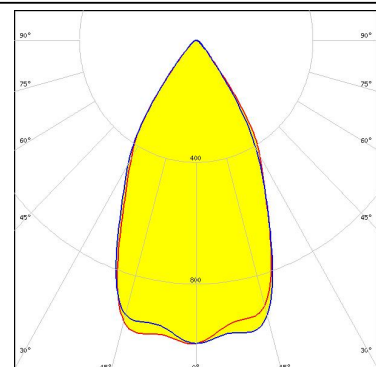
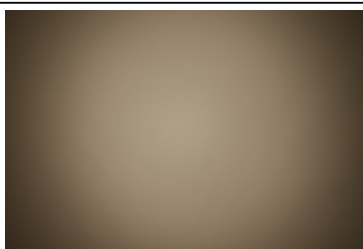
CITIZEN

LED CLL04x/CLU04x
FWHM 59.0°
Efficiency 84 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12692_LENASTD-BASE-CLL040



CITIZEN

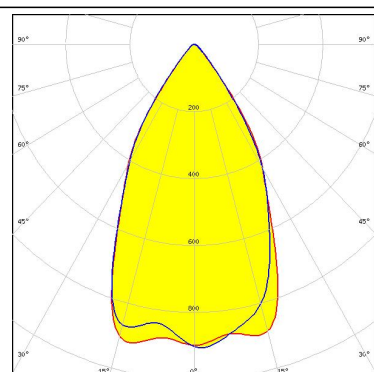
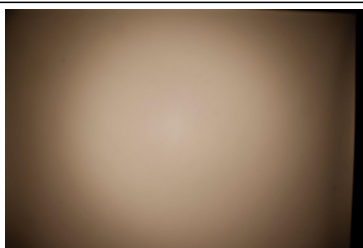
LED CLU710/711
FWHM 55.0°
Efficiency 89 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12691_LENASTD-BASE-CLL030
C12606_LENINA-DL



PHOTOMETRIC DATA (MEASURED):

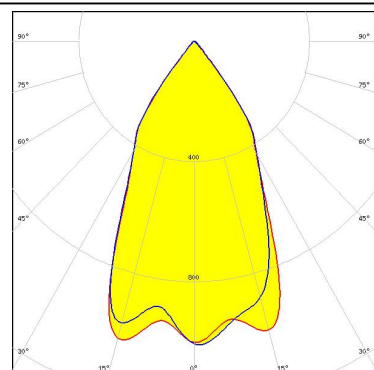
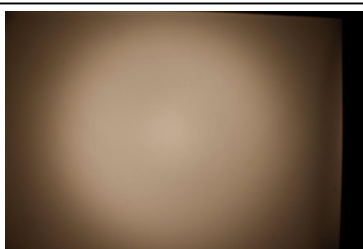
CITIZEN

LED CLU720/721
FWHM 57.0°
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



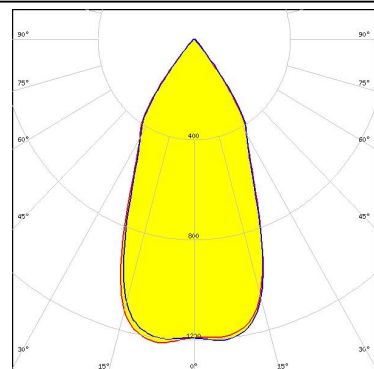
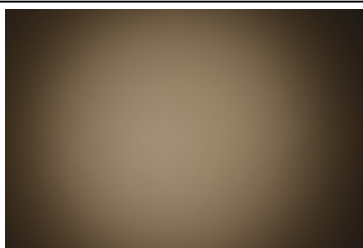
CITIZEN

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



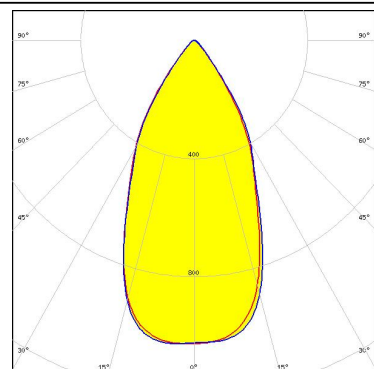
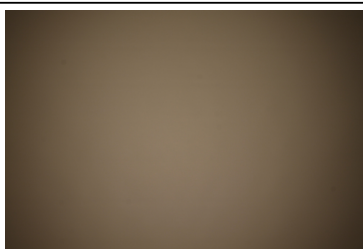
CITIZEN

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



CITIZEN

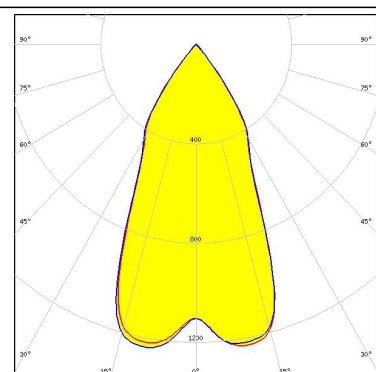
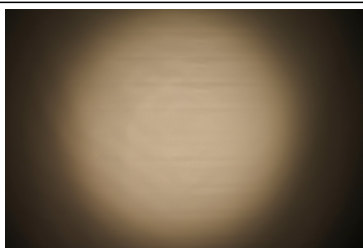
LED CLU730/731
FWHM 50.0°
Efficiency 83 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12692_LENINA-STD-BASE-CLL040
C12606_LENINA-DL



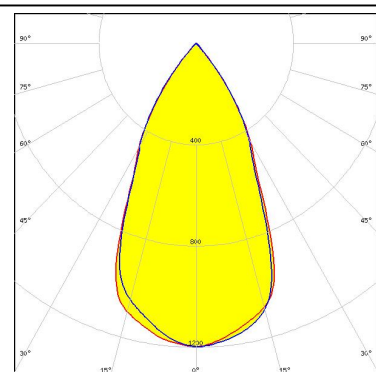
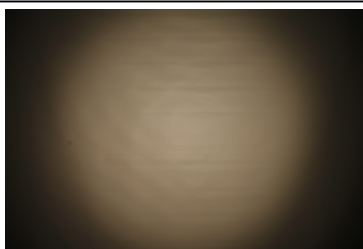
PHOTOMETRIC DATA (MEASURED):



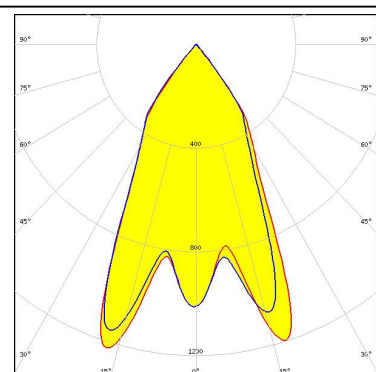
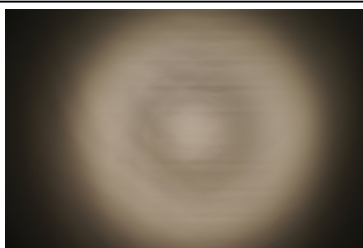
LED CMA1840
FWHM 48.0°
Efficiency 91 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14146_LENINA-STD-BASE-CXA18



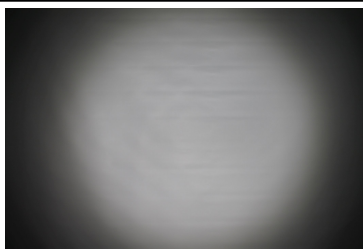
LED CMA2550
FWHM 51.0°
Efficiency 91 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13324_LENINA-STD-BASE-CXA25



LED CMT14xx
FWHM 55.0°
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



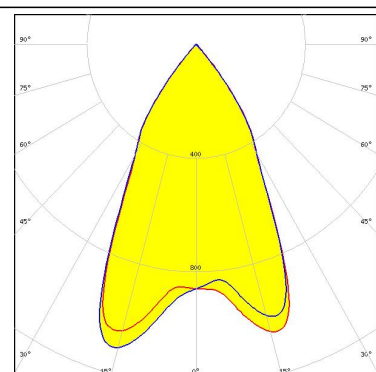
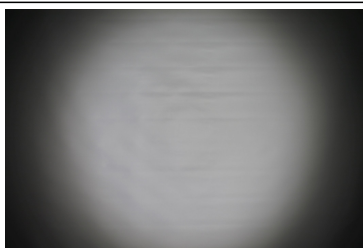
LED CMT19xx
FWHM 54.0°
Efficiency 91 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12691_LENINA-STD-BASE-CLL030
Bender Wirth: 477 Typ L1



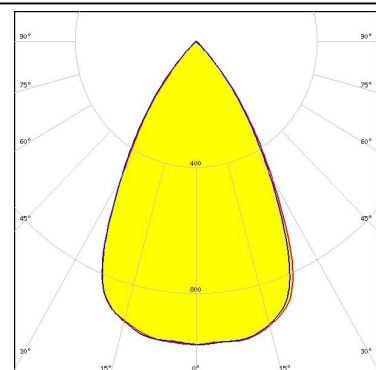
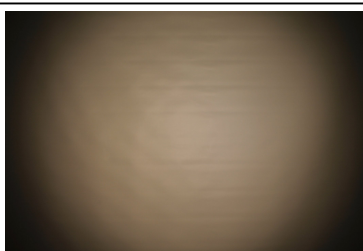
PHOTOMETRIC DATA (MEASURED):



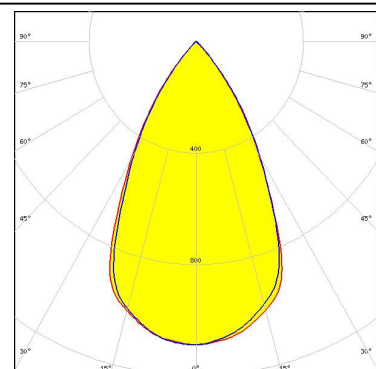
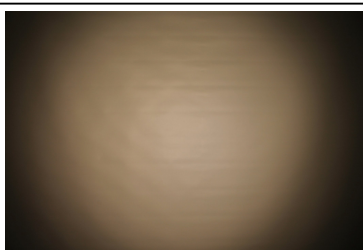
LED CMT19xx
FWHM 55.0°
Efficiency 91 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
Bender Wirth: 477 Typ L1



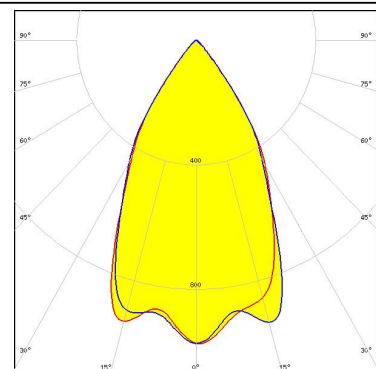
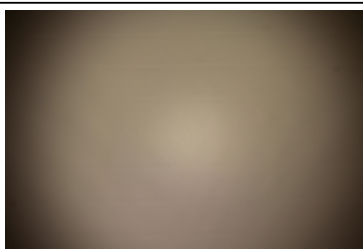
LED CMT28xx
FWHM 60.0°
Efficiency 91 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13867_LENINA-STD-BASE-VERO29
Bender Wirth: 471 Typ L3



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



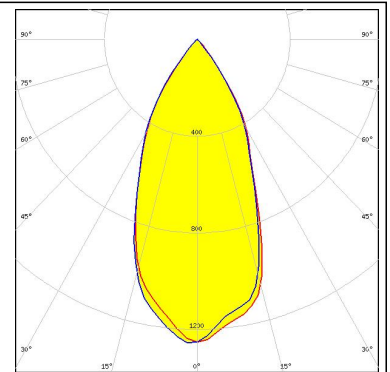
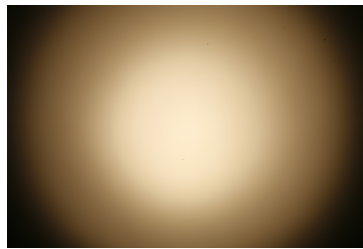
LED CXA/B 15xx
FWHM 57.0°
Efficiency 86 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 441 Typ L1



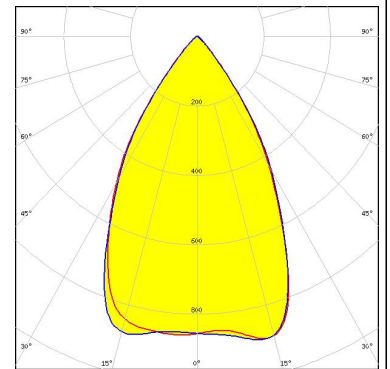
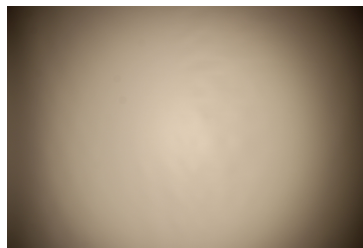
PHOTOMETRIC DATA (MEASURED):



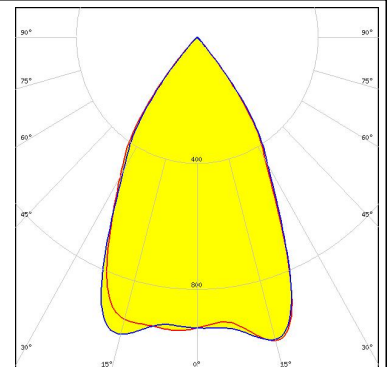
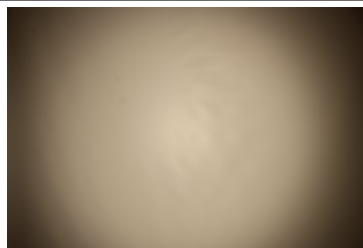
LED CXA/B 15xx
FWHM 48.0°
Efficiency 83 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13186_LENINA-STD-BASE-CXA15
C12606_LENINA-DL



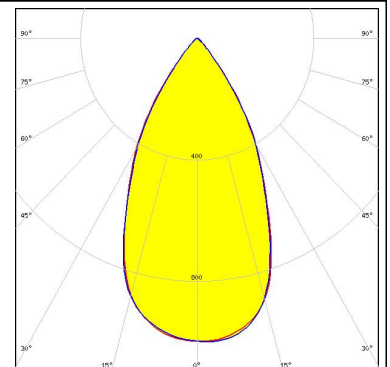
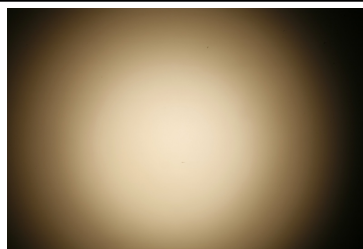
LED CXA/B 1830
FWHM 61.0°
Efficiency 86 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 437 Typ L1



LED CXA/B 1830
FWHM 60.0°
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



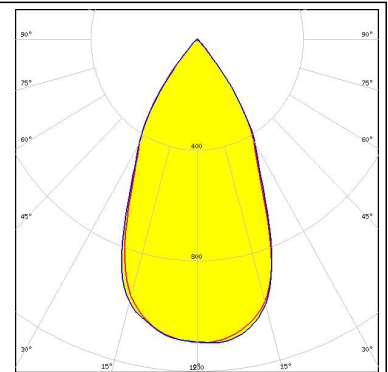
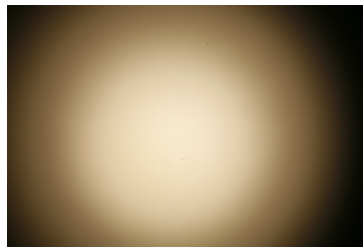
LED CXA/B 25xx
FWHM 52.0°
Efficiency 76 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13324_LENINA-STD-BASE-CXA25
C12606_LENINA-DL



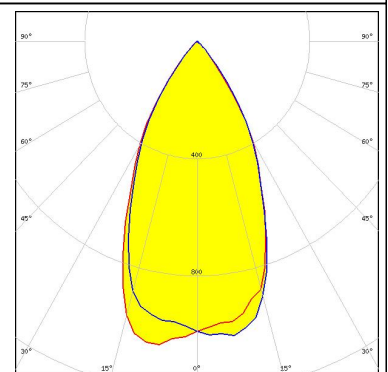
PHOTOMETRIC DATA (MEASURED):



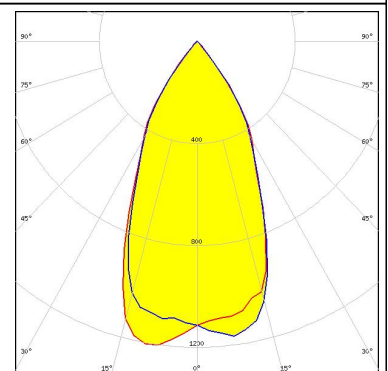
LED CXA/B 25xx
FWHM 51.0°
Efficiency 84 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13324_LENINA-STD-BASE-CXA25



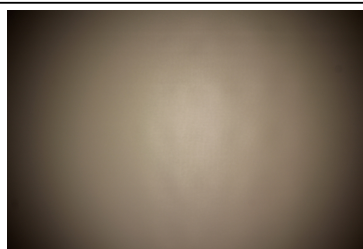
LED CXA2011
FWHM 52.0°
Efficiency 78 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12105_LENINA-STD-BASE-CXA20
C12606_LENINA-DL



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



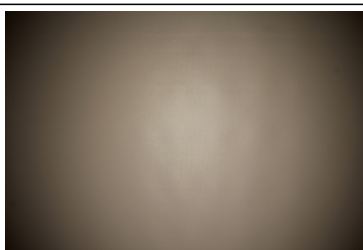
LED CHI3030 19W
FWHM 62.0°
Efficiency 90 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13867_LENINA-STD-BASE-VERO29
C12606_LENINA-DL
Bender Wirth: 468 Typ L3



PHOTOMETRIC DATA (MEASURED):

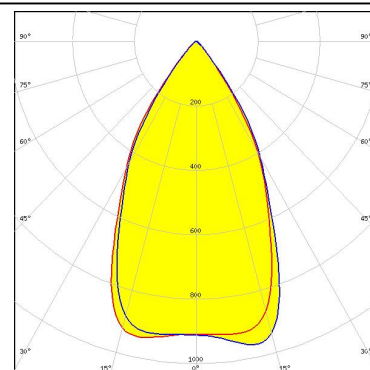
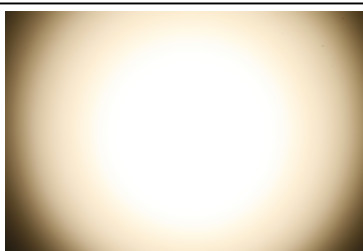
EVERLIGHT

LED CHI3030 29W
FWHM 63.0°
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



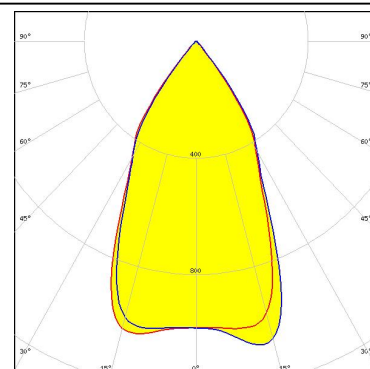
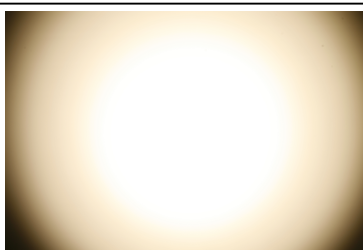
LUMILEDS

LED LUXEON CoB 1204/1205
FWHM 57.0°
Efficiency 84 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12292_LENINA-STD-BASE-MEZ
C12606_LENINA-DL



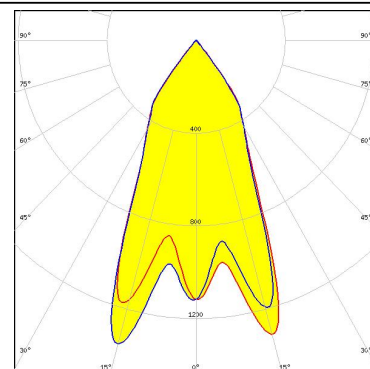
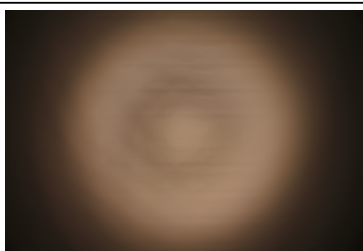
LUMILEDS

LED LUXEON CoB 1204/1205
FWHM 55.0°
Efficiency 89 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12292_LENINA-STD-BASE-MEZ



LUMILEDS

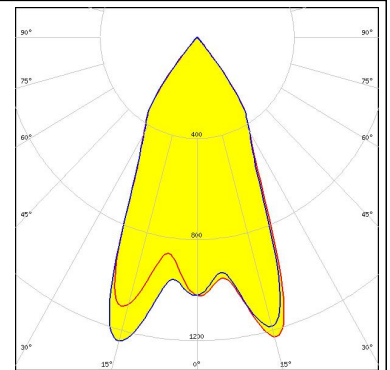
LED LUXEON CoB 1204HD
FWHM 51.0°
Efficiency 91 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C11981_LENINA-STD-BASE-COB-L110



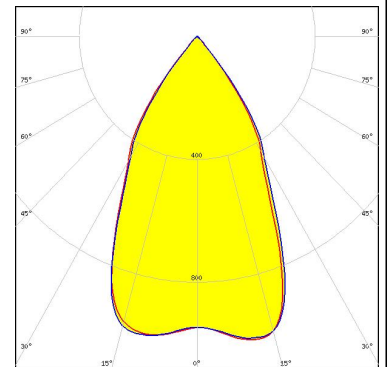
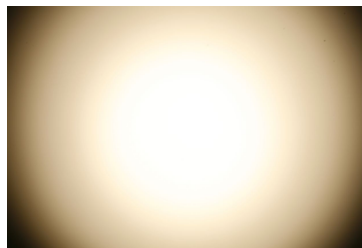
PHOTOMETRIC DATA (MEASURED):



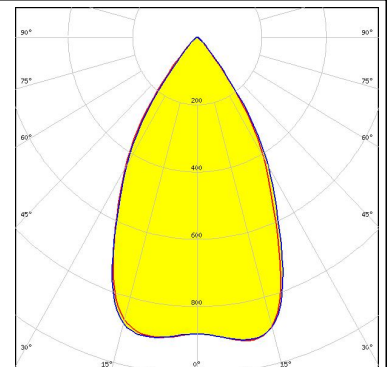
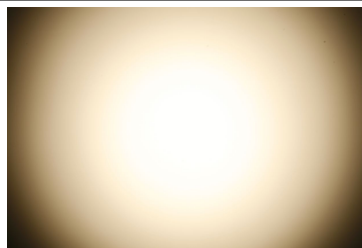
LED LUXEON CoB 1205HD
FWHM 54.0°
Efficiency 91 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C11981_LENINA-STD-BASE-COB-L110



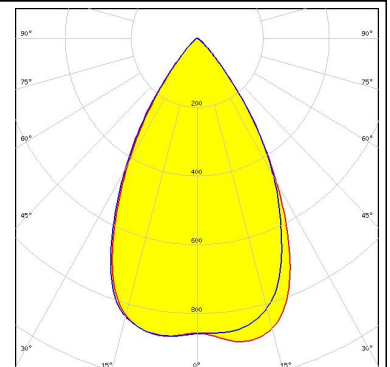
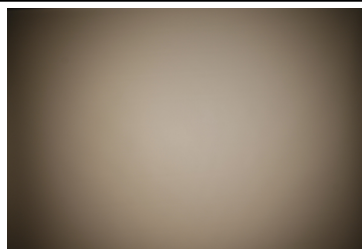
LED LUXEON CoB 1208
FWHM 58.0°
Efficiency 88 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12292_LENINA-STD-BASE-MEZ



LED LUXEON CoB 1208
FWHM 60.0°
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



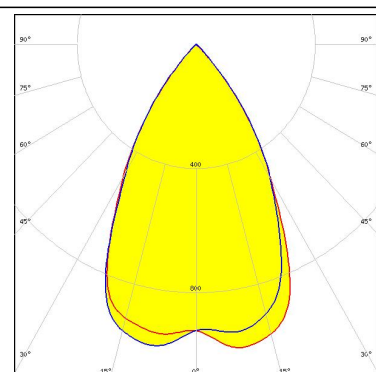
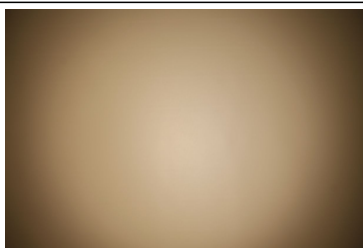
LED LUXEON CoB 1211
FWHM 60.0°
Efficiency 86 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13867_LENINA-STD-BASE-VERO29
C12606_LENINA-DL
Bender Wirth: 431 Typ L3



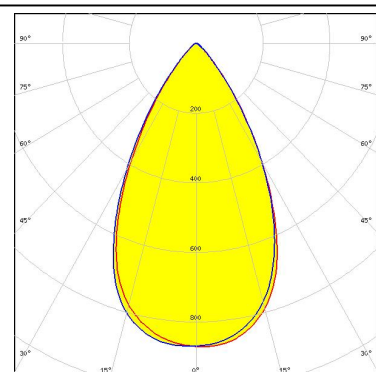
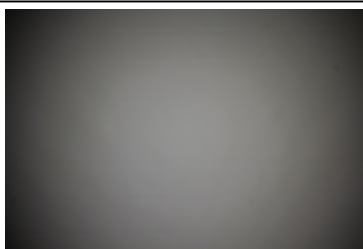
PHOTOMETRIC DATA (MEASURED):



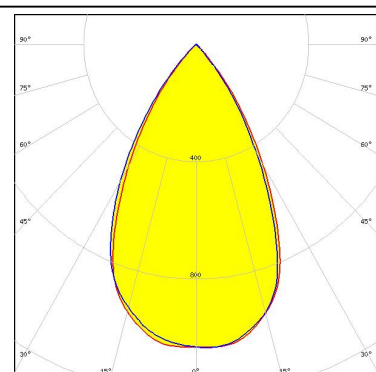
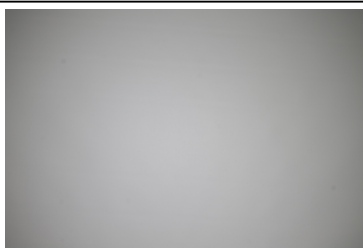
LED LUXEON CoB 1211
FWHM 60.0°
Efficiency 91 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13867_LEN-STD-BASE-VERO29
Bender Wirth: 431 Typ L3



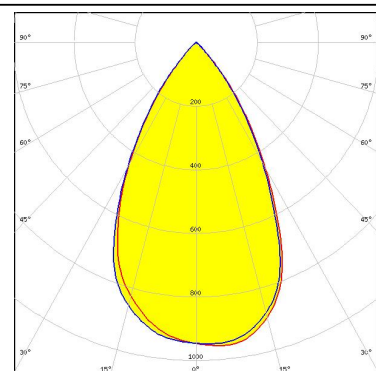
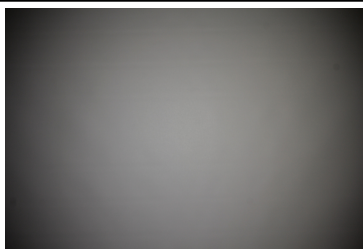
LED LUXEON CoB 1216/1812
FWHM 58.0°
Efficiency 80 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12606_LENINA-DL
A.A.G. STUCCHI: 8102/G2 + S-8000/12



LED LUXEON CoB 1216/1812
FWHM 58.0°
Efficiency 90 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12692_LEN-STD-BASE-CLL040



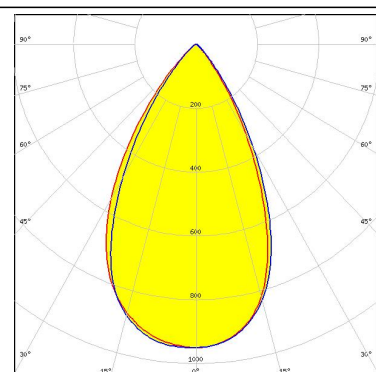
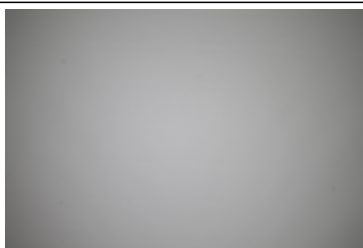
LED LUXEON CoB 1216/1812
FWHM 58.0°
Efficiency 84 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
A.A.G. STUCCHI: 8102/G2 + S-8000/12



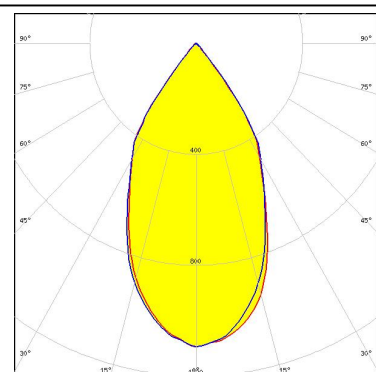
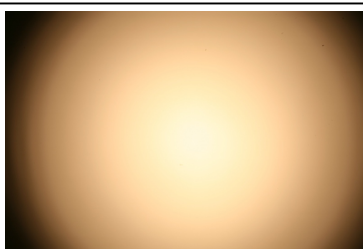
PHOTOMETRIC DATA (MEASURED):



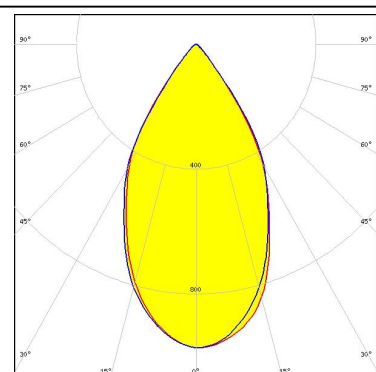
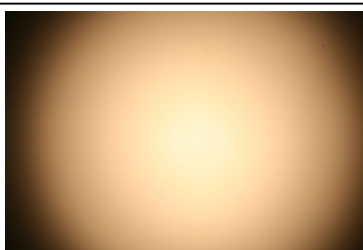
LED LUXEON CoB 1216/1812
FWHM 58.0°
Efficiency 86 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12692_LENINA-STD-BASE-CLL040
C12606_LENINA-DL



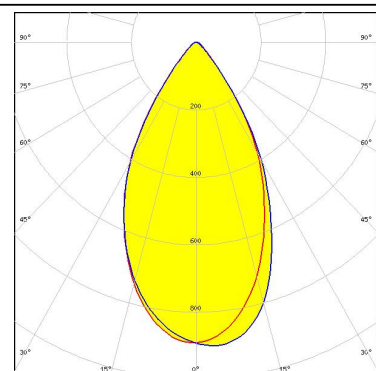
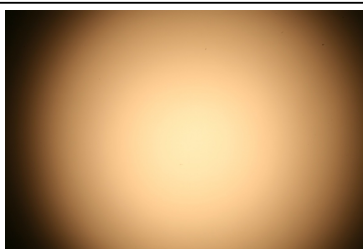
LED LUXEON K12
FWHM 54.0°
Efficiency 88 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12924_LENINA-STD-BASE-LUXEON-K



LED LUXEON K12
FWHM 57.0°
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



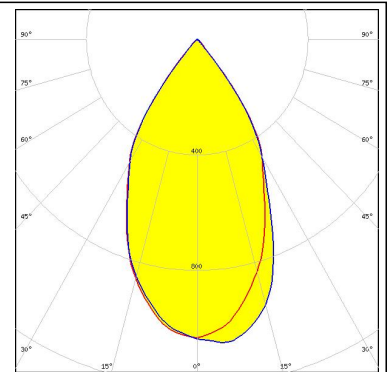
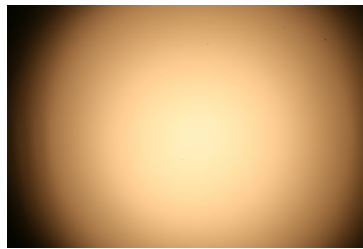
LED LUXEON K16
FWHM 56.0°
Efficiency 79 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12924_LENINA-STD-BASE-LUXEON-K
C12606_LENINA-DL



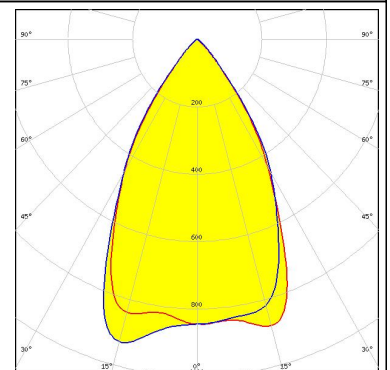
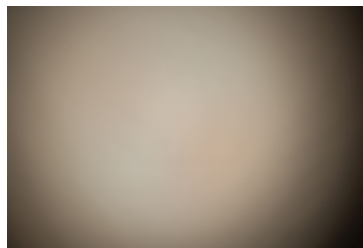
PHOTOMETRIC DATA (MEASURED):



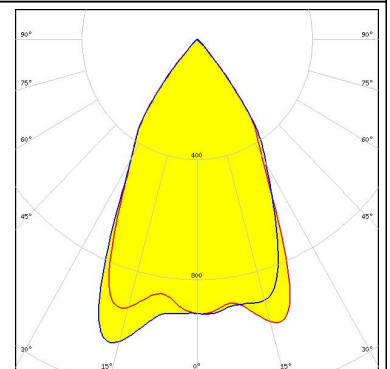
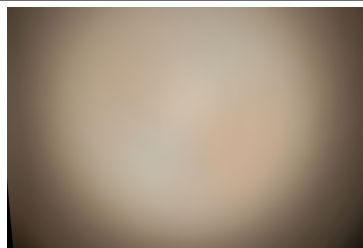
LED LUXEON K16
FWHM 55.0°
Efficiency 85 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12924_LENINA-STD-BASE-LUXEON-K



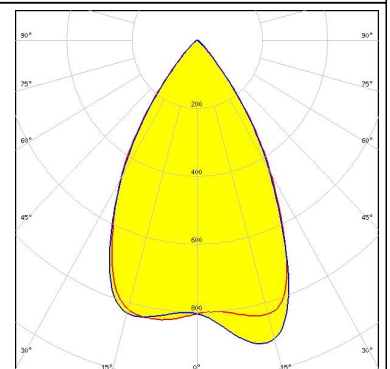
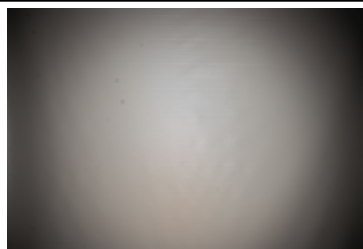
LED CDM-14 (Dim-To-Warm)
FWHM 60.0°
Efficiency 86 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 491 Typ L2



LED CDM-14 (Dim-To-Warm)
FWHM 58.0°
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: 491 Typ L2



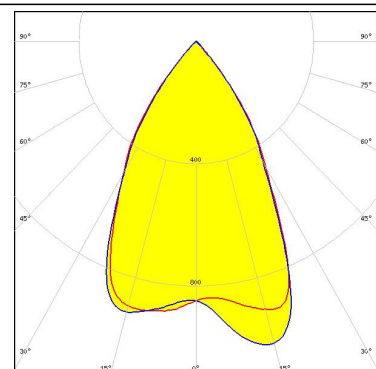
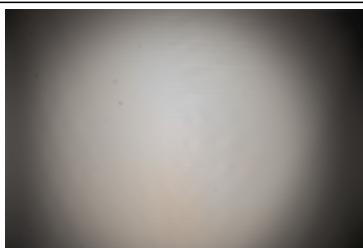
LED CDM-18 (Dim-To-Warm)
FWHM 62.0°
Efficiency 86 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 491 Typ L2



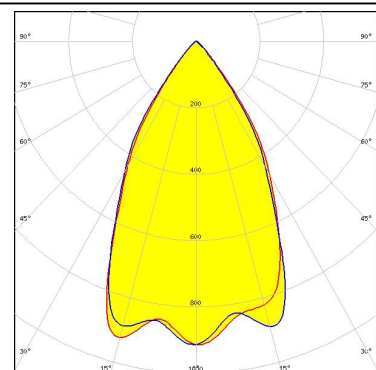
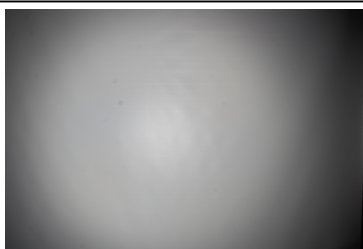
PHOTOMETRIC DATA (MEASURED):



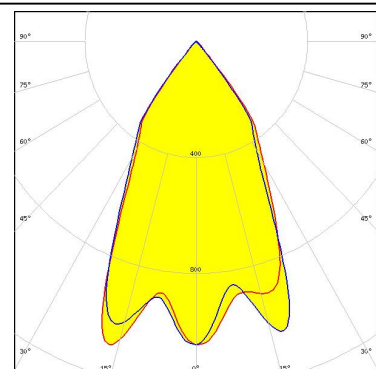
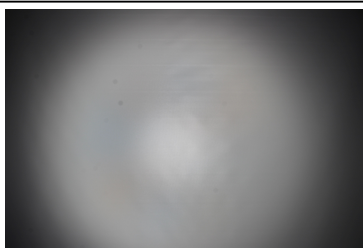
LED CDM-18 (Dim-To-Warm)
FWHM 64.0°
Efficiency 91 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
Bender Wirth: 491 Typ L2



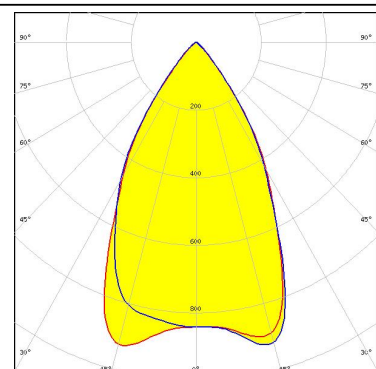
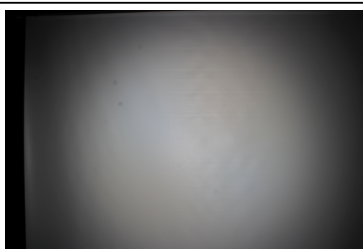
LED CDM-9 (Dim-To-Warm)
FWHM 59.0°
Efficiency 86 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 490 Typ L1



LED CDM-9 (Dim-To-Warm)
FWHM 55.0°
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



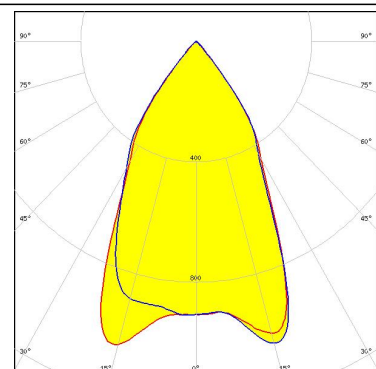
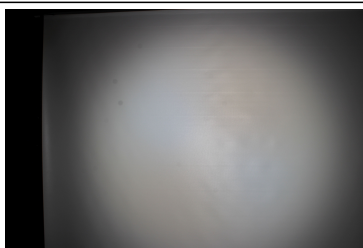
LED CTM-14 (Tunable White)
FWHM 60.0°
Efficiency 86 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13867_LENINA-STD-BASE-VERO29
C12606_LENINA-DL
Bender Wirth: 442 Typ L3



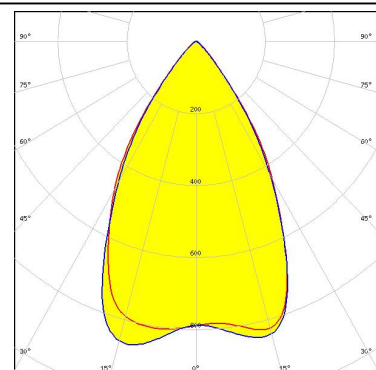
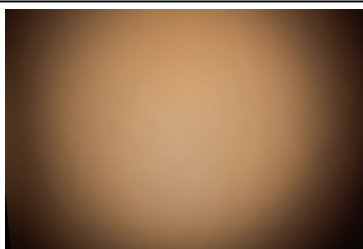
PHOTOMETRIC DATA (MEASURED):



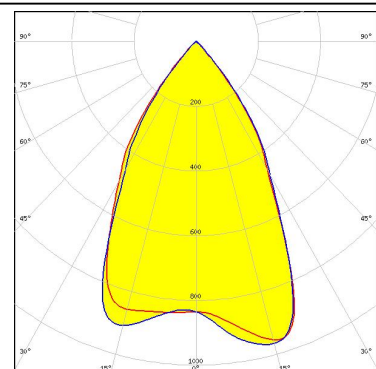
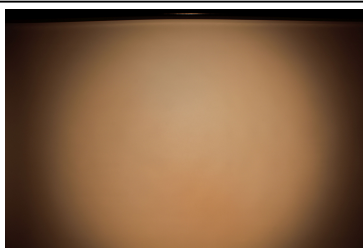
LED CTM-14 (Tunable White)
FWHM 58.0°
Efficiency 91 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13867_LENINA-STD-BASE-VERO29
Bender Wirth: 442 Typ L3



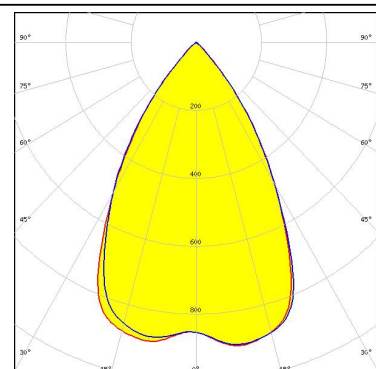
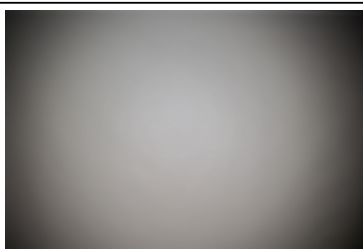
LED CTM-18 (Tunable White)
FWHM 63.0°
Efficiency 85 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13867_LENINA-STD-BASE-VERO29
C12606_LENINA-DL
Bender Wirth: 442 Typ L3



LED CTM-18 (Tunable White)
FWHM 32.0°
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



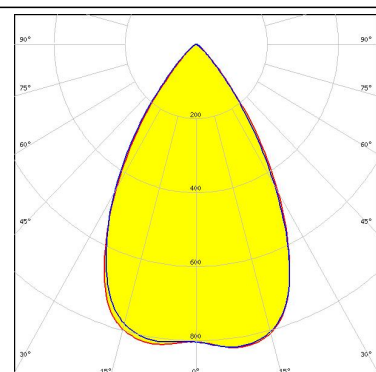
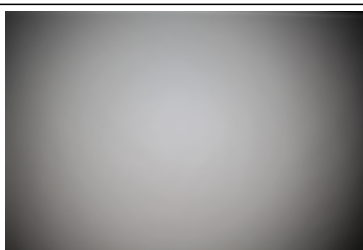
LED CTM-22 (Tunable White)
FWHM 63.0°
Efficiency 90 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13867_LENINA-STD-BASE-VERO29
Bender Wirth: 494 Typ L3



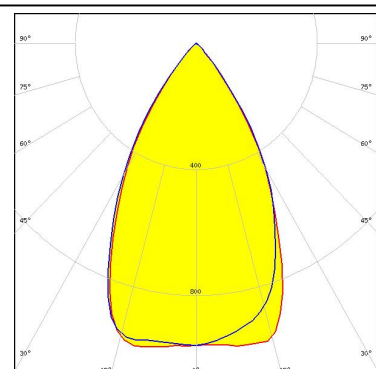
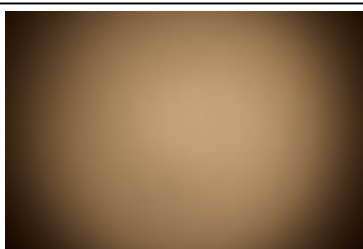
PHOTOMETRIC DATA (MEASURED):



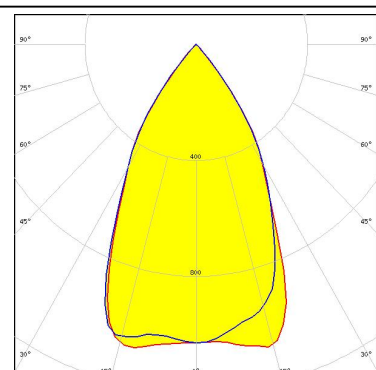
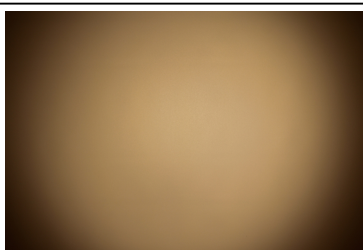
LED CTM-22 (Tunable White)
 FWHM 63.0°
 Efficiency 85 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13867_LENINA-STD-BASE-VERO29
 C12606_LENINA-DL
 Bender Wirth: 494 Typ L3



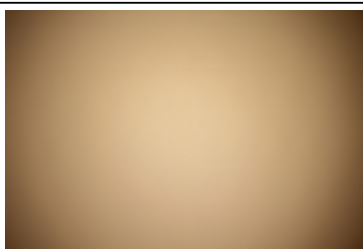
LED CxM-14 (19x19)
 FWHM 59.0°
 Efficiency 88 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12691_LENINA-STD-BASE-CLL030
 C12606_LENINA-DL



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



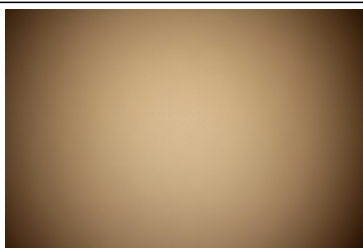
LED CxM-22 (28x28)
 FWHM 58.0°
 Efficiency 92 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12692_LENINA-STD-BASE-CLL040



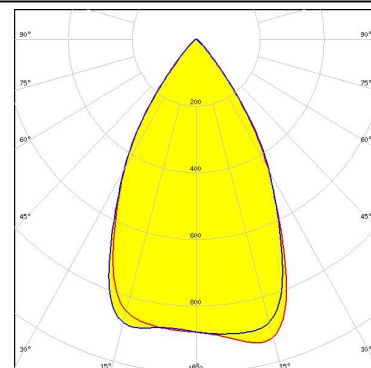
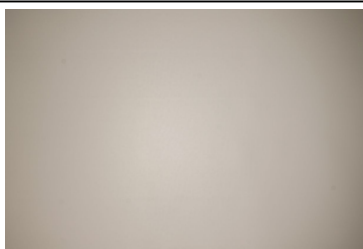
PHOTOMETRIC DATA (MEASURED):



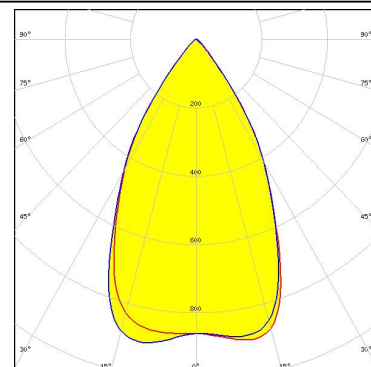
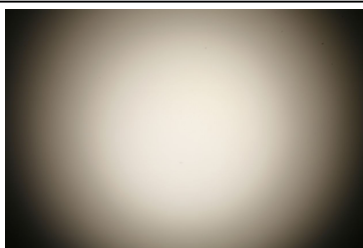
LED CxM-22 (28x28)
FWHM 58.0°
Efficiency 87 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12692_LENINA-STD-BASE-CLL040
C12606_LENINA-DL



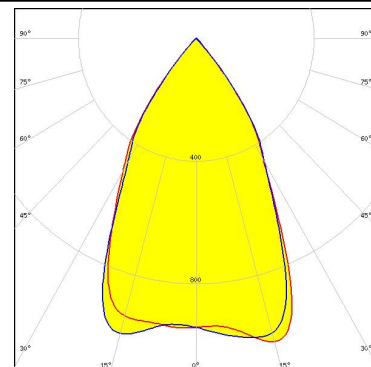
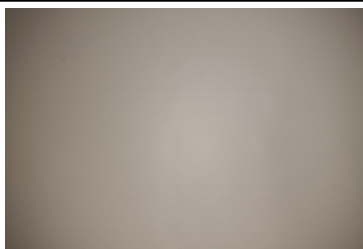
LED COB J-Type
FWHM 59.0°
Efficiency 87 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 463 Typ L2



LED COB J-Type
FWHM 59.0°
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



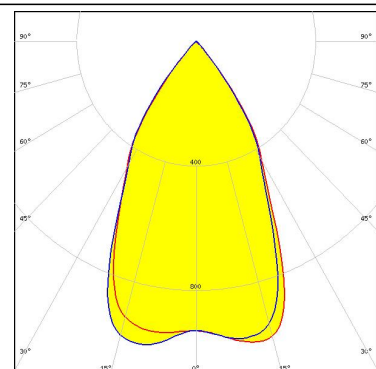
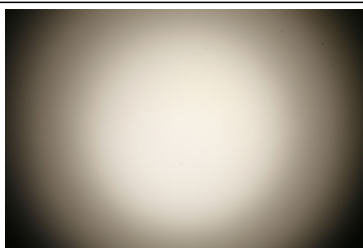
LED COB J-Type
FWHM 59.0°
Efficiency 91 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
Bender Wirth: 463 Typ L2



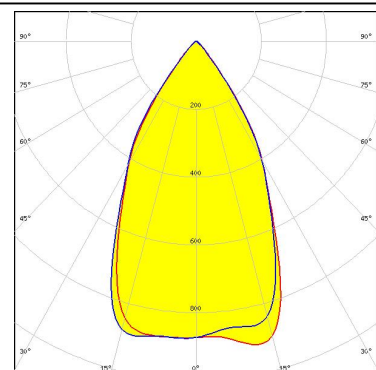
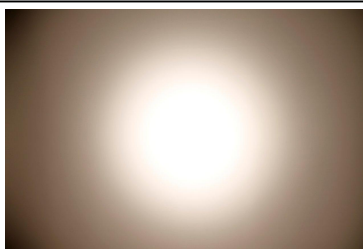
PHOTOMETRIC DATA (MEASURED):



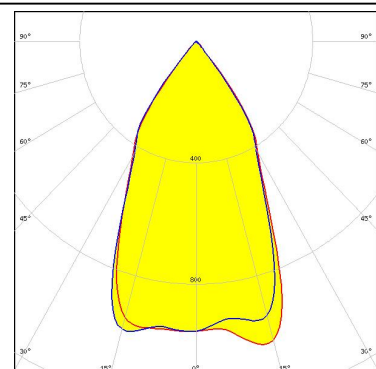
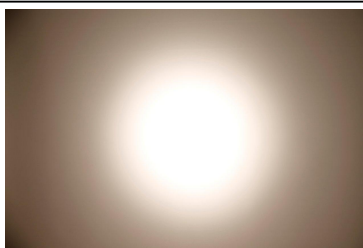
LED COB J-Type
FWHM 58.0°
Efficiency 86 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12292_LENINA-STD-BASE-MEZ



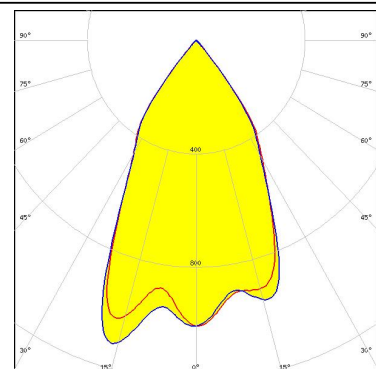
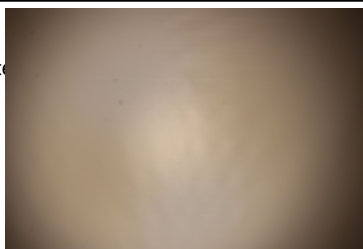
LED COB L-Type (LES 11)
FWHM 58.0°
Efficiency 80 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C11981_LENINA-STD-BASE-COB-L110
C12606_LENINA-DL



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



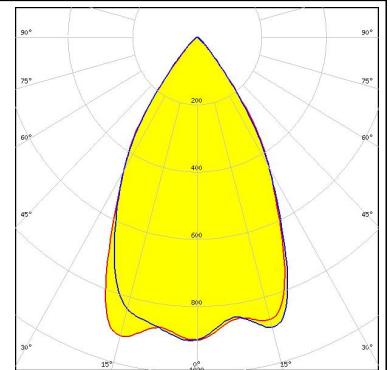
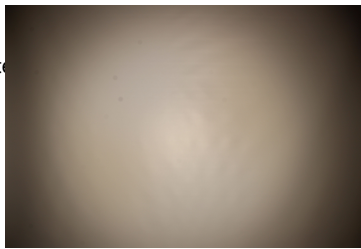
LED NVCWJ024Z-V1MT: COB J-Type Tunable White
FWHM 56.0°
Efficiency 91 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
Bender Wirth: 498 Typ L2



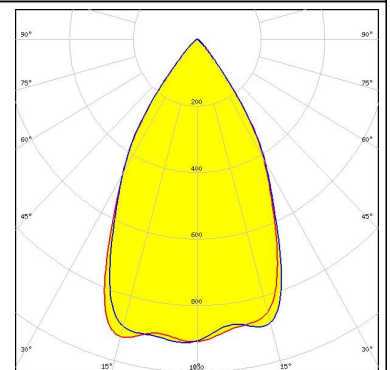
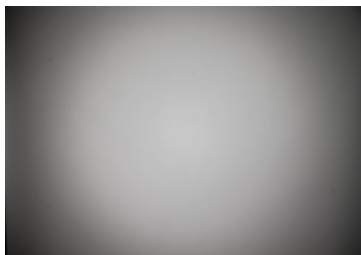
PHOTOMETRIC DATA (MEASURED):



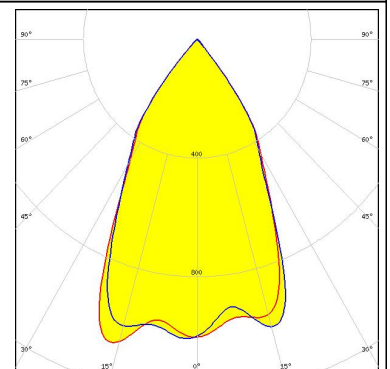
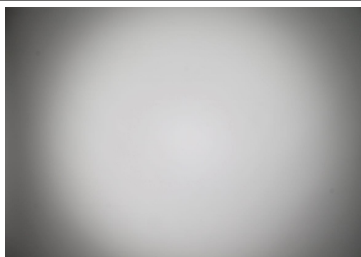
LED NVCWJ024Z-V1MT: COB J-Type Tunable White
FWHM 60.0°
Efficiency 86 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 498 Typ L2



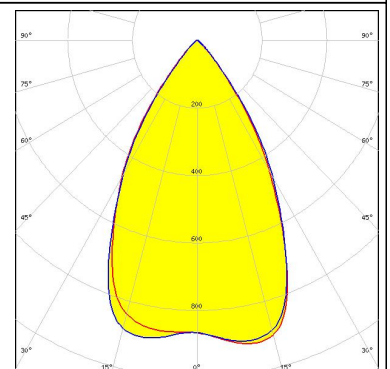
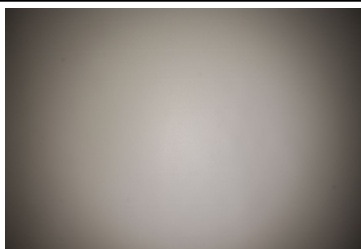
LED Soleriq S13
FWHM 59.0°
Efficiency 86 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 437 Typ L1



LED Soleriq S13
FWHM 56.0°
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: 437 Typ L1



LED Soleriq S19
FWHM 60.0°
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

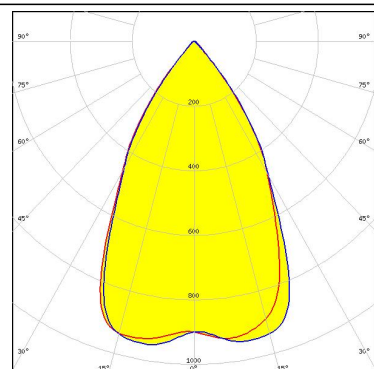
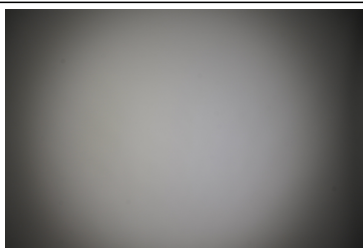


PHOTOMETRIC DATA (MEASURED):

OSRAM

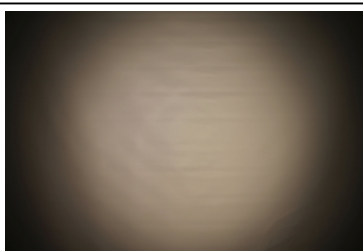
Opto Semiconductors

LED Soleriq S19
FWHM 60.0°
Efficiency 92 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13867_LENINA-STD-BASE-VERO29
Bender Wirth: 462 Typ L3



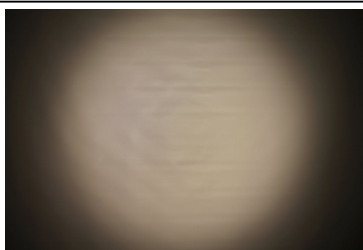
PHILIPS

LED Fortimo SLM L13 CoB
FWHM 57.0°
Efficiency 85 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12292_LENINA-STD-BASE-MEZ
C12606_LENINA-DL



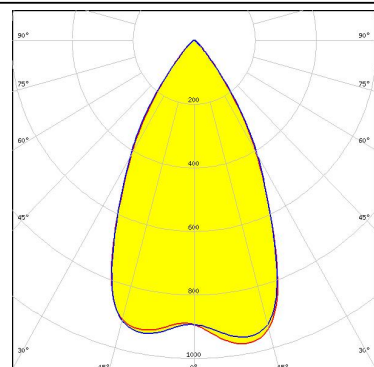
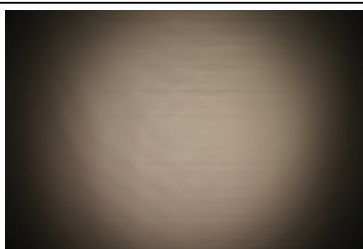
PHILIPS

LED Fortimo SLM L13 CoB
FWHM 57.0°
Efficiency 92 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12292_LENINA-STD-BASE-MEZ



PHILIPS

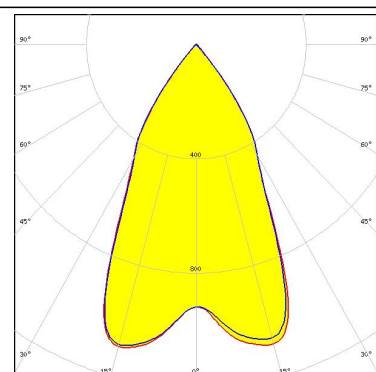
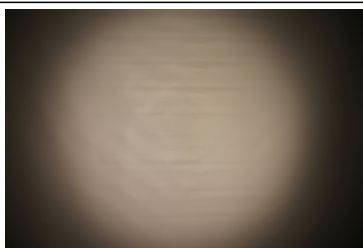
LED Fortimo SLM L15 CoB
FWHM 56.0°
Efficiency 85 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12292_LENINA-STD-BASE-MEZ
C12606_LENINA-DL



PHOTOMETRIC DATA (MEASURED):

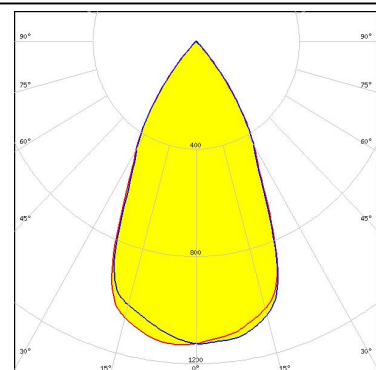
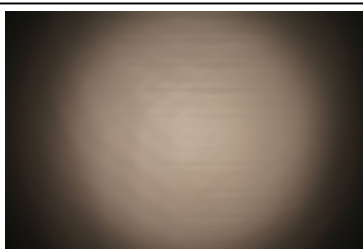
PHILIPS

LED Fortimo SLM L15 CoB
FWHM 59.0°
Efficiency 91 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12292_LENINA-STD-BASE-MEZ



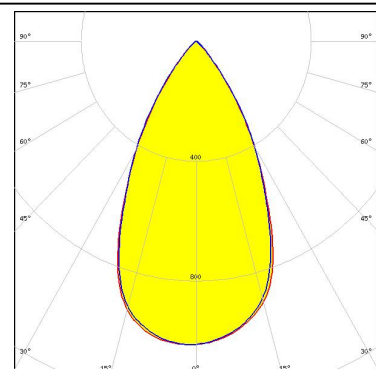
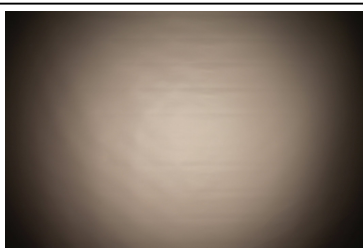
PHILIPS

LED Fortimo SLM L19 CoB
FWHM 53.0°
Efficiency 91 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12692_LENINA-STD-BASE-CLL040



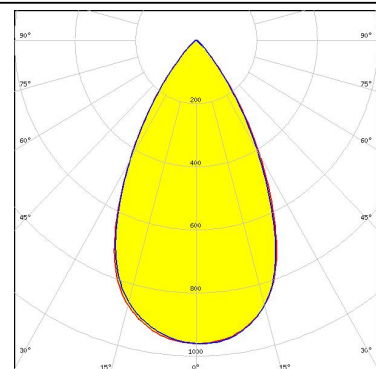
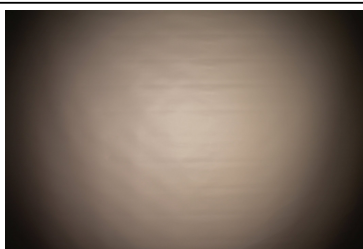
PHILIPS

LED Fortimo SLM L19 CoB
FWHM 54.0°
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

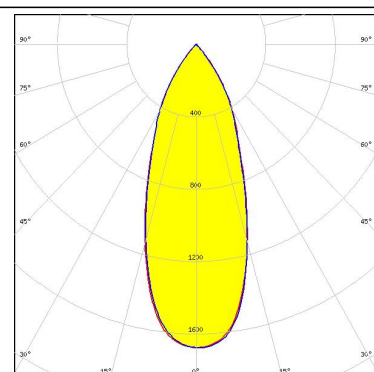
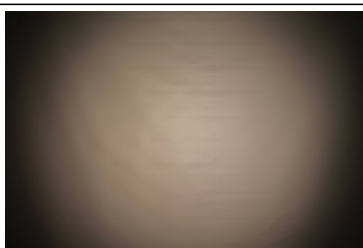
LED Fortimo SLM L23 CoB
FWHM 57.0°
Efficiency 85 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12292_LENINA-STD-BASE-MEZ
C12606_LENINA-DL



PHOTOMETRIC DATA (MEASURED):

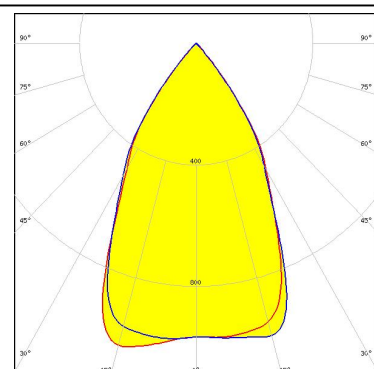
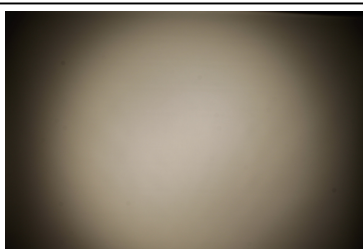
PHILIPS

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



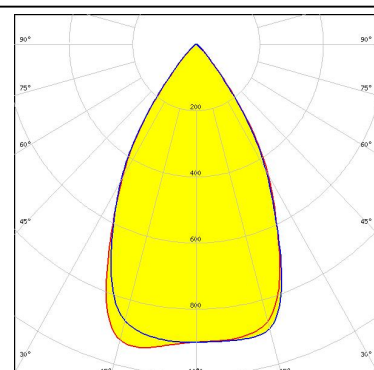
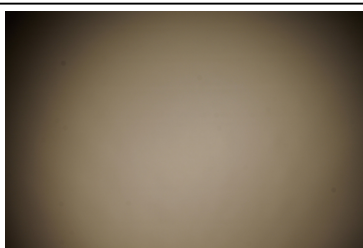
SAMSUNG

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



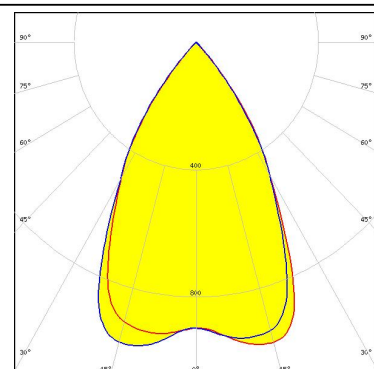
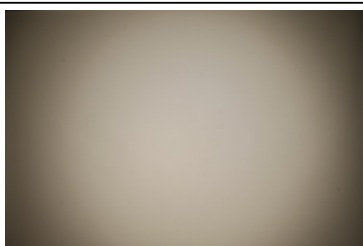
SAMSUNG

LED LC016D / LC019D / LC026D / LC033D
FWHM 59.0°
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

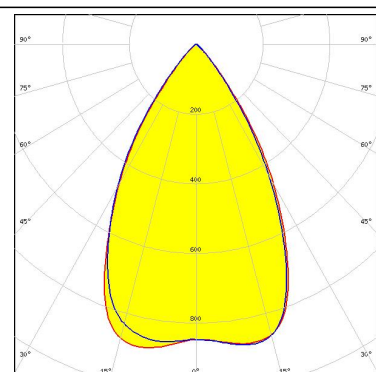
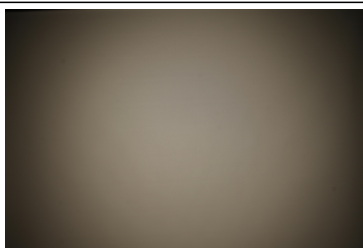
LED LC026B / 033B / 040B
FWHM 61.0°
Efficiency 91 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
Bender Wirth: 450 Typ L2



PHOTOMETRIC DATA (MEASURED):

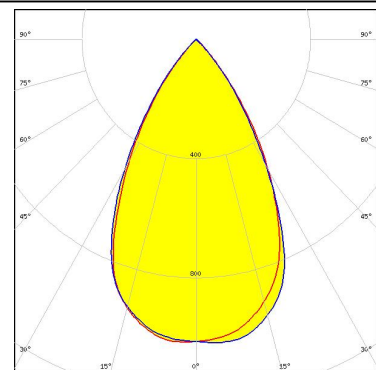
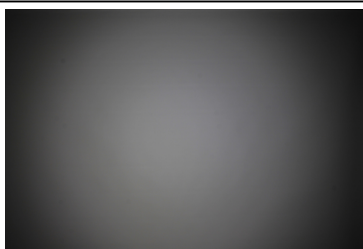
SAMSUNG

LED LC026B / 033B / 040B
FWHM 61.0°
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



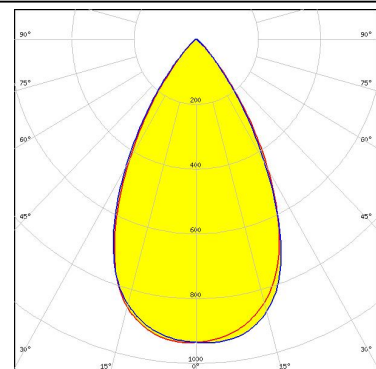
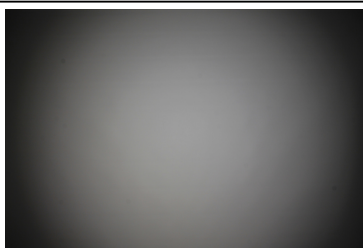
SAMSUNG

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



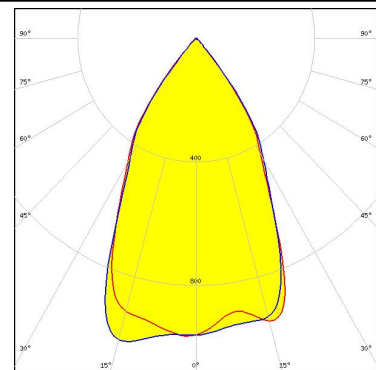
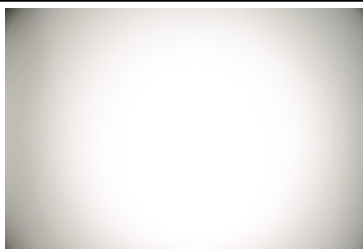
SAMSUNG

LED LC040D / LC060D / LC080D
FWHM 59.0°
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



SEOUL SEMICONDUCTOR

LED ZC12/18
FWHM 57.0°
Efficiency 88 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12691_LENINA-STD-BASE-CLL030



PHOTOMETRIC DATA (MEASURED):

<p>SEOUL SEMICONDUCTOR</p> <p>LED ZC12/18</p> <p>FWHM 59.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 0.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>C12691_LENINA-STD-BASE-CLL030</p> <p>C12606_LENINA-DL</p>		
<p>SEOUL SEMICONDUCTOR</p> <p>LED ZC25/40/60</p> <p>FWHM 60.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 0.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>C12692_LENINA-STD-BASE-CLL040</p>		
<p>SEOUL SEMICONDUCTOR</p> <p>LED ZC25/40/60</p> <p>FWHM 60.0°</p> <p>Efficiency 82 %</p> <p>Peak intensity 0.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>C12692_LENINA-STD-BASE-CLL040</p> <p>C12606_LENINA-DL</p>		
<p>SHARP</p> <p>LED Mega Zenigata (GW5DGC)</p> <p>FWHM 45.0°</p> <p>Efficiency 78 %</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>C12292_LENINA-STD-BASE-MEZ</p> <p>C12606_LENINA-DL</p>		

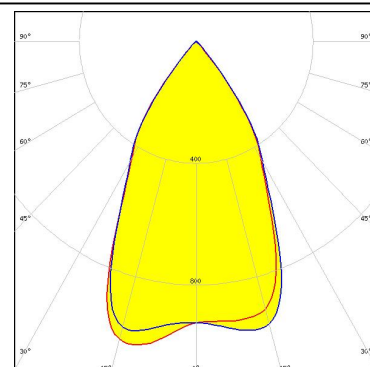
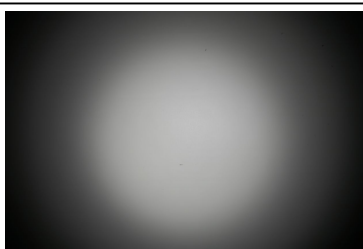
PHOTOMETRIC DATA (MEASURED):

SHARP

LED Mega Zenigata (GW5DGC)
FWHM 41.0°
Efficiency 86 %
LEDs/each optic 1
Light colour White
Required components:
C12292_LENINA-STD-BASE-MEZ

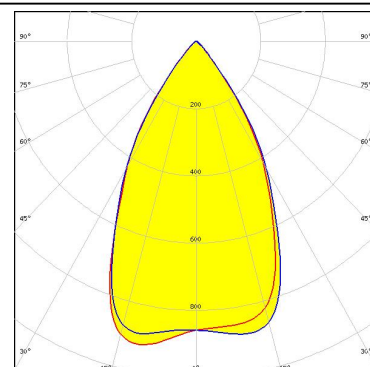
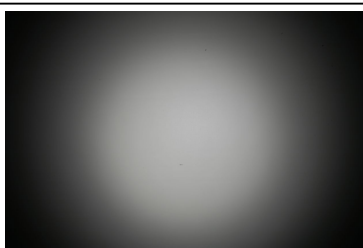
SHARP

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



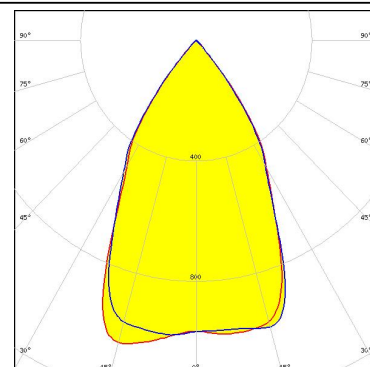
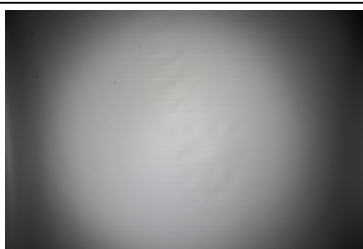
SHARP

LED Mega Zenigata (GW6DME)
FWHM 59.0°
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

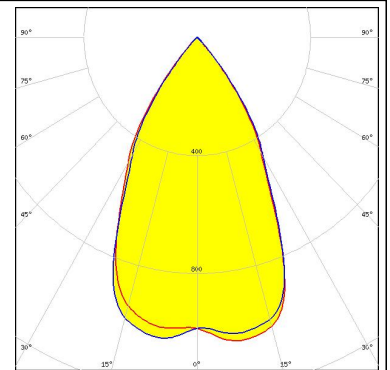
LED SLE G7 LES15
FWHM 59.0°
Efficiency 92 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12691_LENINA-STD-BASE-CLL030



PHOTOMETRIC DATA (MEASURED):

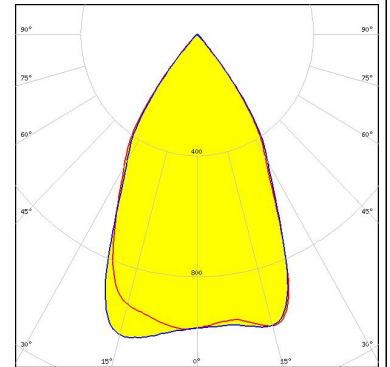
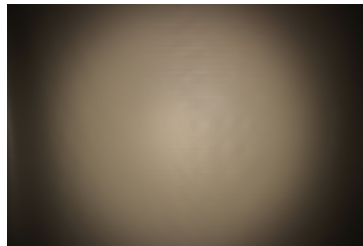
TRIDONIC

LED SLE G7 LES17 H
FWHM 56.0°
Efficiency 90 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14547_LENNA-ADAPTER-B



XICATO

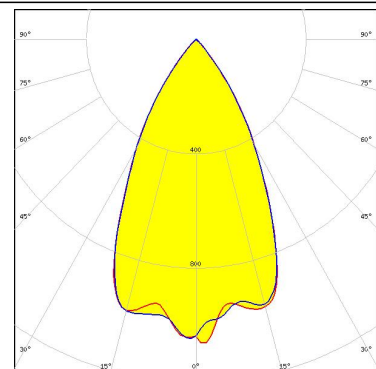
LED XOB 14.5 mm
FWHM 58.0°
Efficiency 91 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12691_LENNA-STD-BASE-CLL030



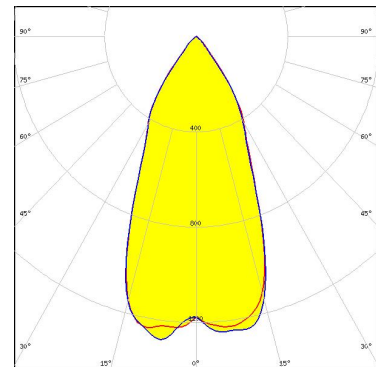
PHOTOMETRIC DATA (SIMULATED):



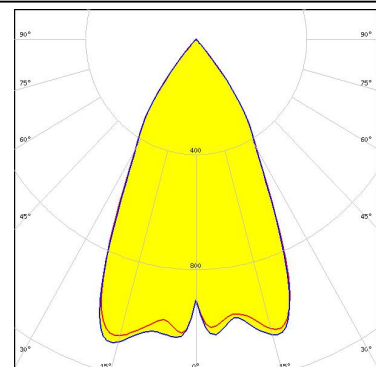
LED V10 Gen7
FWHM 55.0°
Efficiency 85 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 486 Typ L1



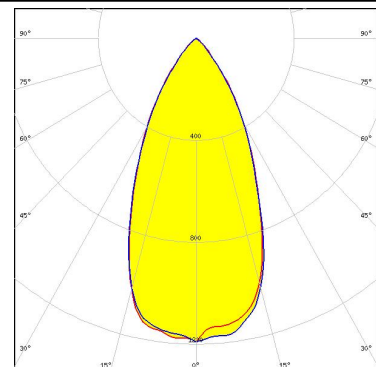
LED V13 Gen7
FWHM 46.0°
Efficiency 90 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2103CT + 50-2100AN



LED V13 Gen7
FWHM 50.0°
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



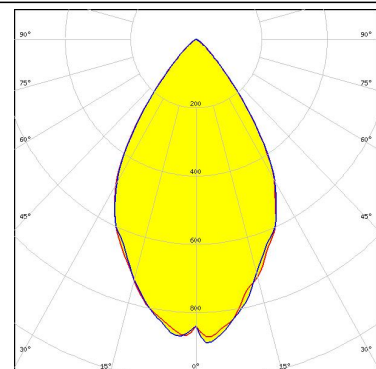
LED V13 Gen7
FWHM 48.0°
Efficiency 88 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12606_LENINA-DL
IDEAL: 50-2103CT + 50-2100AN



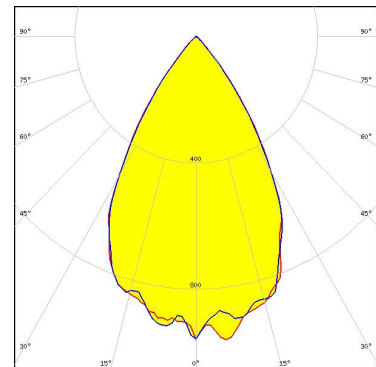
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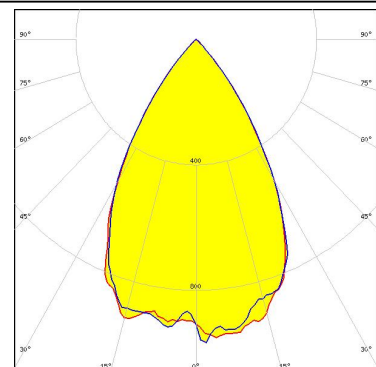
LED V13 Gen7
FWHM 63.0°
Efficiency 87 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
 C13868_LENINA-STD-BASE-VERO13-18
 C12606_LENINA-DL
 Bender Wirth: 477 Typ L1



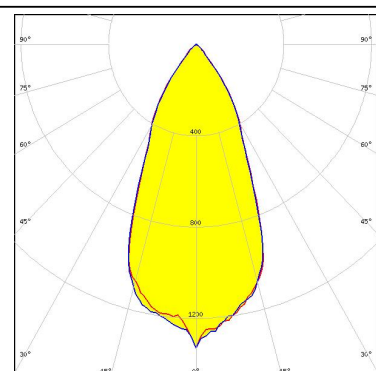
LED V22 Gen7
FWHM 61.0°
Efficiency 87 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
 C13867_LENINA-STD-BASE-VERO29
 C12606_LENINA-DL
 Bender Wirth: 431 Typ L3



LED V22 Gen7
FWHM 61.0°
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



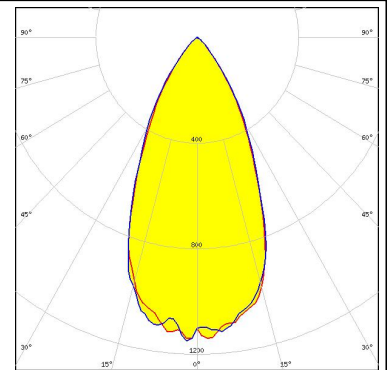
LED CXA/B 30xx
FWHM 46.0°
Efficiency 89 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
 IDEAL: 50-2234C + 50-2100LN



PHOTOMETRIC DATA (SIMULATED):



LED CXA/B 30xx
FWHM 49.0°
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



LED CxM-14 (19x19)
FWHM 57.0°
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 60.0°
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 57.0°
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

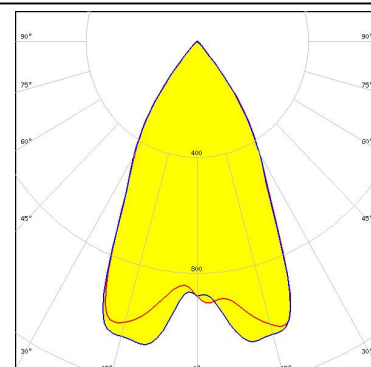
PHOTOMETRIC DATA (SIMULATED):



LED CxM-9 (13.5x13.5)
FWHM 54.0°
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 56.0°
Efficiency 90 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12691_LENINA-STD-BASE-CLL030



SEOUL SEMICONDUCTOR


LED ZC12/18
FWHM 57.0°
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




SEOUL SEMICONDUCTOR

LED ZC12/18
FWHM 60.0°
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

PHOTOMETRIC DATA (SIMULATED):

 SEOUL SEMICONDUCTOR	
LED	ZC4/6
FWHM	57.0°
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	

 SEOUL SEMICONDUCTOR	
LED	ZC4/6
FWHM	54.0°
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	

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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LEDiL Oy

Joensuunkatu 13
FI-24240 SALO
Finland

LEDiL Inc.

228 West Page Street
Suite D
Sycamore IL 60178
USA

Local sales and technical support

[www.ledil.com/
where_to_buy](http://www.ledil.com/where_to_buy)

Shipping locations

Salo, Finland
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