

LENINA-M

~30° medium beam

TECHNICAL SPECIFICATIONS:

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

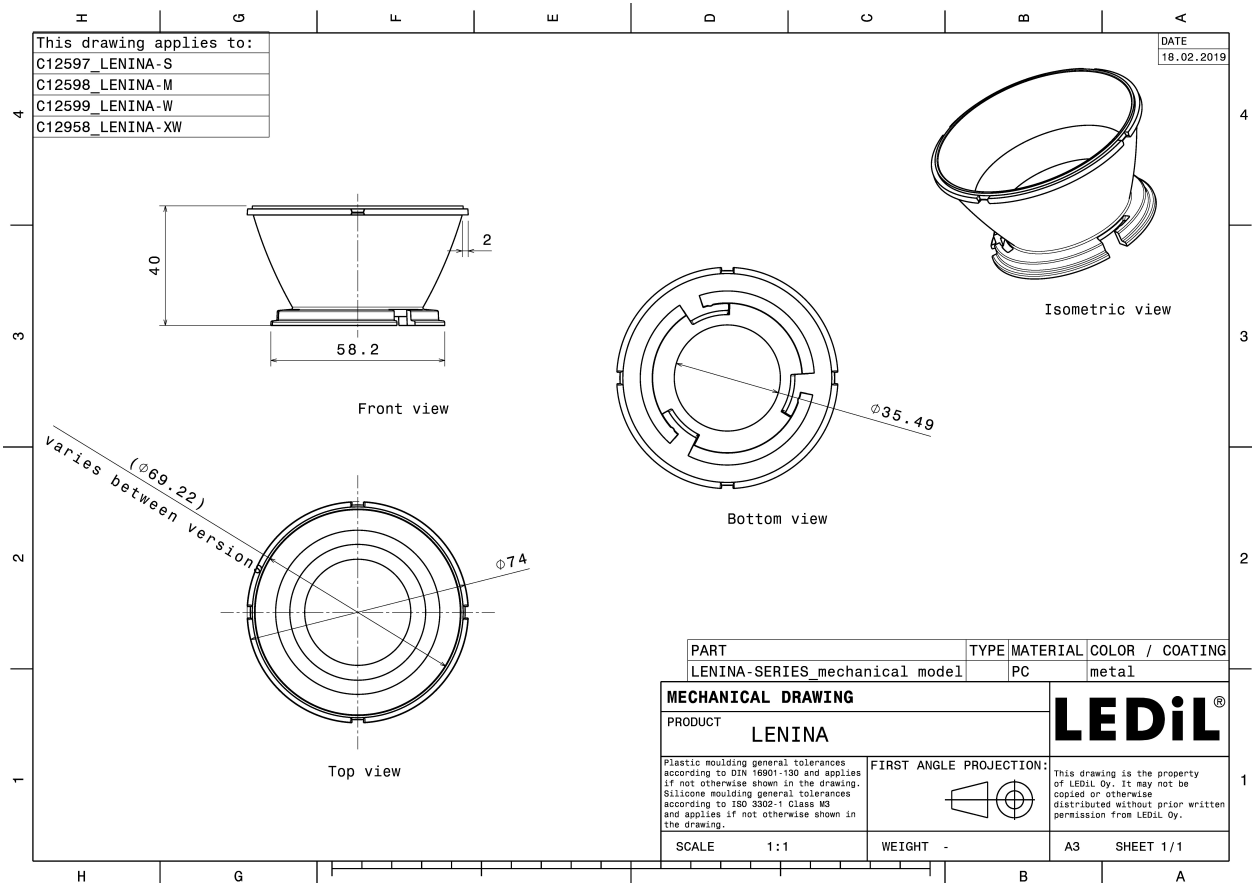
MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish	Coating
LENINA-M	Reflector	PC	metal		lacquer



ORDERING INFORMATION:

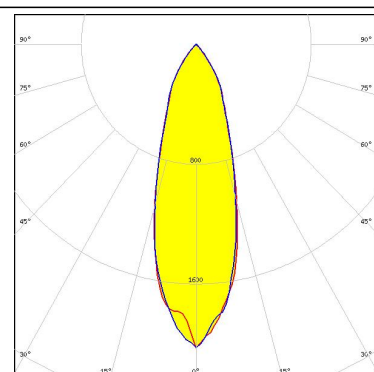
Component	Qty in box	MOQ	MPQ	Box weight (kg)
C12598_LENINA-M » Box size: 476 x 273 x 197 mm	60	120	60	2.0



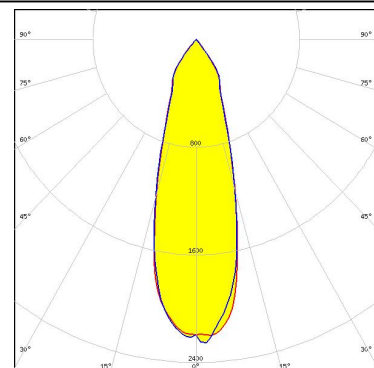
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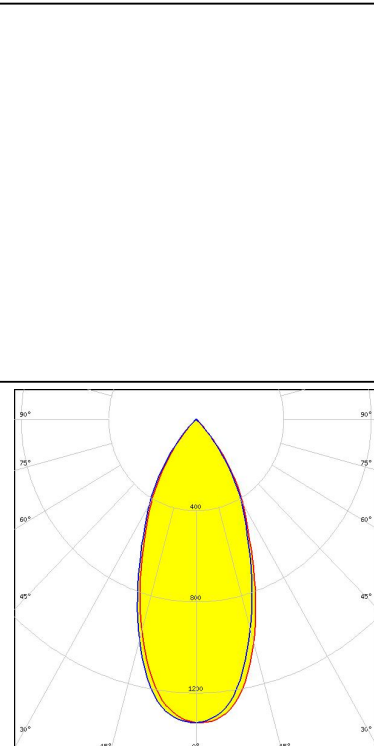
LED BXRA ES Rectangle
FWHM 36.0°
Efficiency 78 %
LEDs/each optic 1
Light colour White
Required components:
C12153_LENINA-STD-BASE-BXRA
C12606_LENINA-DL



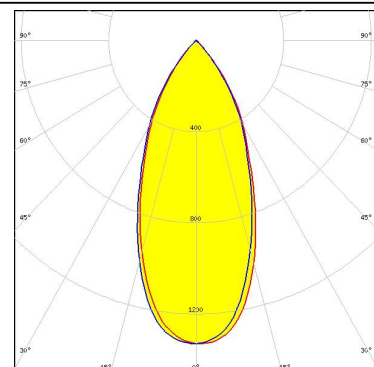
LED BXRA ES Rectangle
FWHM 29.0°
Efficiency 86 %
LEDs/each optic 1
Light colour White
Required components:
C12153_LENINA-STD-BASE-BXRA



LED BXRA RS
FWHM 47.0°
Efficiency 80 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12229_LENINA-STD-BASE-RS
C12606_LENINA-DL



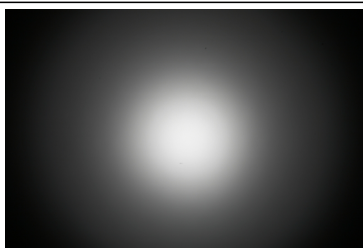
LED BXRA RS
FWHM 44.0°
Efficiency 88 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12229_LENINA-STD-BASE-RS



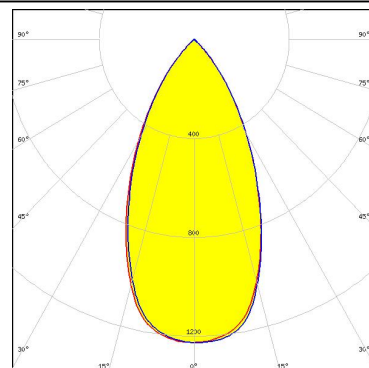
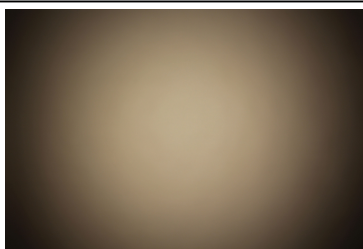
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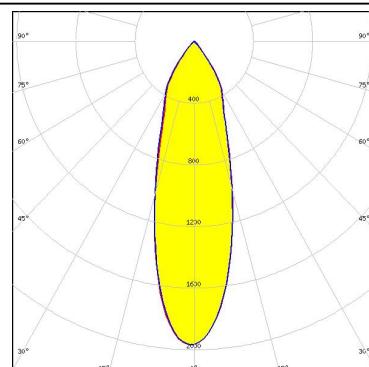
LED V10 Gen6
FWHM 21.0°
Efficiency 84 %
Peak intensity 3.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13186_LENINA-STD-BASE-CXA15
C12606_LENINA-DL



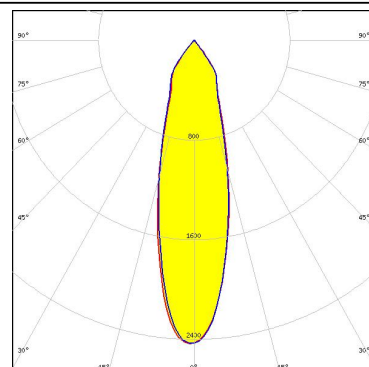
LED Vero SE 29
FWHM 51.0°
Efficiency 92 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C15083_LENINA-STD-BASE-VERO29



LED VERO13
FWHM 31.0°
Efficiency 87 %
Peak intensity 2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL



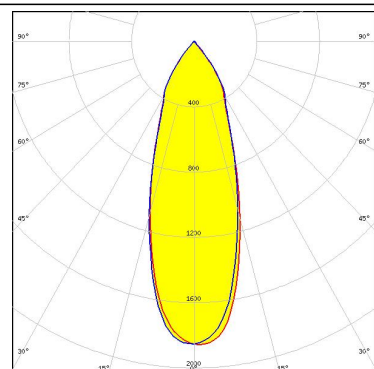
LED VERO13
FWHM 28.0°
Efficiency 91 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18



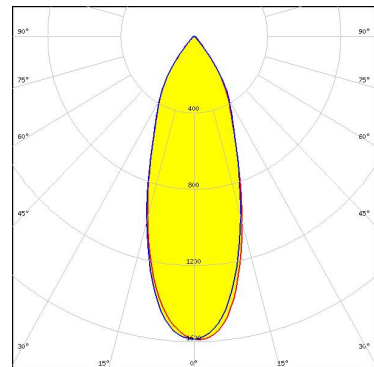
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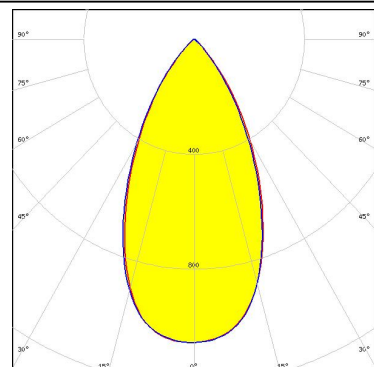
LED VERO18
FWHM 35.0°
Efficiency 90 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18



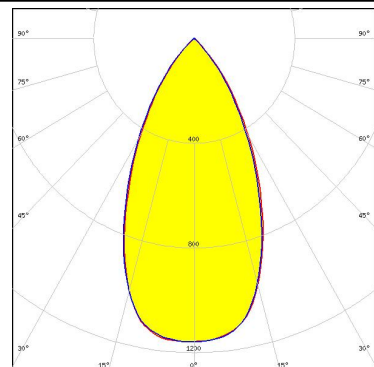
LED VERO18
FWHM 37.0°
Efficiency 86 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL



LED VERO29
FWHM 52.0°
Efficiency 85 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13867_LENINA-STD-BASE-VERO29
C12606_LENINA-DL



LED VERO29
FWHM 52.0°
Efficiency 89 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13867_LENINA-STD-BASE-VERO29



PHOTOMETRIC DATA (MEASURED):

CITIZEN

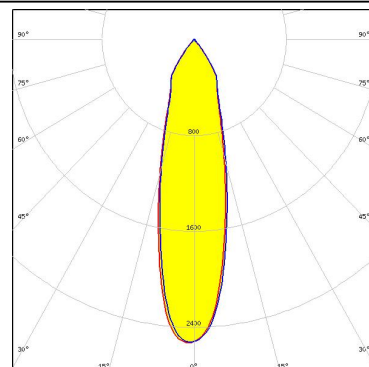
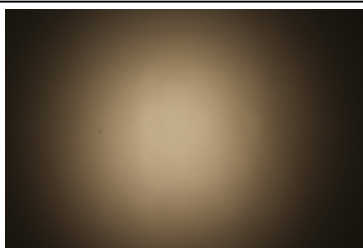
LED CL-L340
FWHM 35.0°
Efficiency 78 %
LEDs/each optic 1
Light colour White
Required components:
C11995_LENINA-STD-BASE-CL340
C12606_LENINA-DL

CITIZEN

LED CL-L340
FWHM 30.0°
Efficiency 86 %
LEDs/each optic 1
Light colour White
Required components:
C11995_LENINA-STD-BASE-CL340

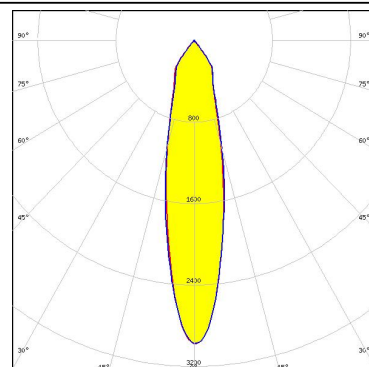
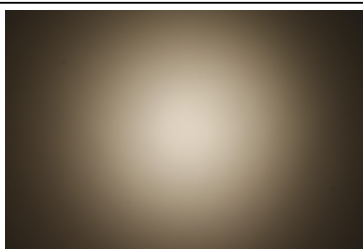
CITIZEN

LED CL-L340
FWHM 26.0°
Efficiency 92 %
Peak intensity 2.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C11995_LENINA-STD-BASE-CL340



CITIZEN

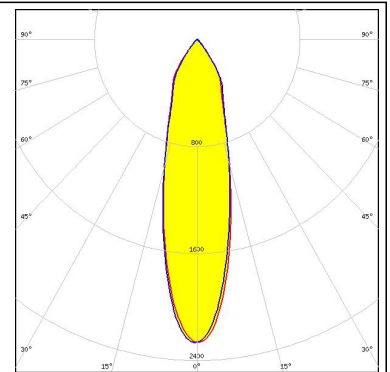
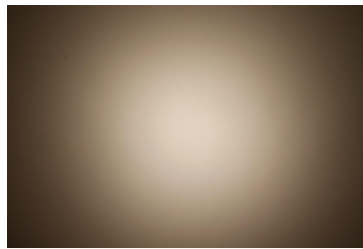
LED CLL02x/CLU02x (LES10)
FWHM 23.0°
Efficiency 91 %
Peak intensity 3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
Bender Wirth: 434 Typ L1



PHOTOMETRIC DATA (MEASURED):

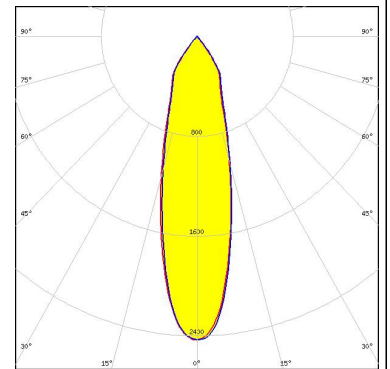
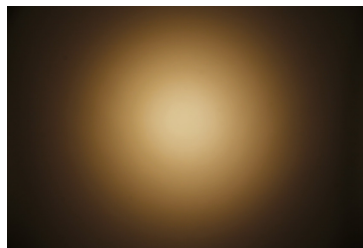
CITIZEN

LED CLL02x/CLU02x (LES10)
FWHM 26.0°
Efficiency 87 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 434 Typ L1



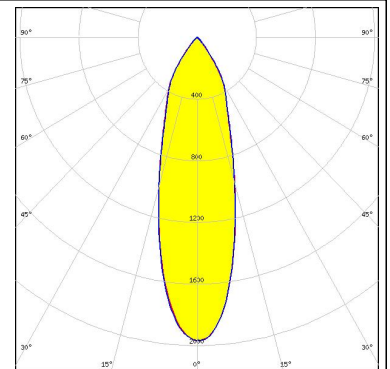
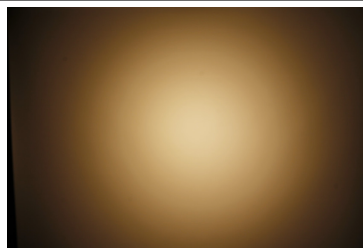
CITIZEN

LED CLL03x/CLU03x
FWHM 28.0°
Efficiency 91 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12691_LENINA-STD-BASE-CLL030



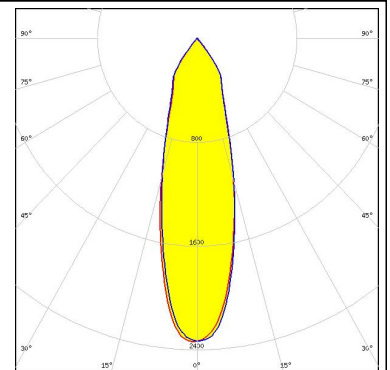
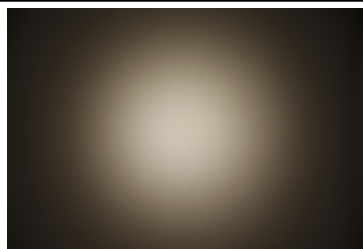
CITIZEN

LED CLL03x/CLU03x
FWHM 30.0°
Efficiency 87 %
Peak intensity 2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12691_LENINA-STD-BASE-CLL030
C12606_LENINA-DL



CITIZEN

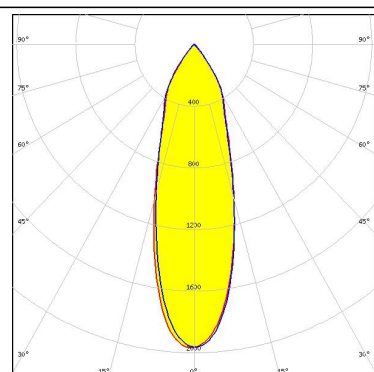
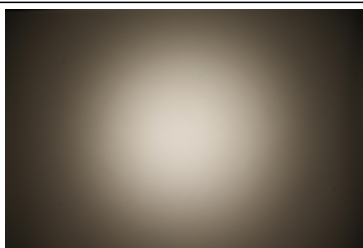
LED CLL03x/CLU03x
FWHM 29.0°
Efficiency 91 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
Bender Wirth: 433 Typ L1



PHOTOMETRIC DATA (MEASURED):

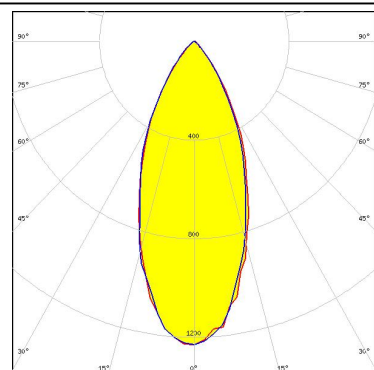
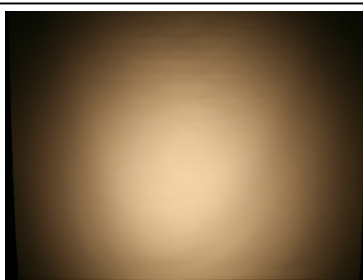
CITIZEN

LED CLL03x/CLU03x
FWHM 31.0°
Efficiency 88 %
Peak intensity 2 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



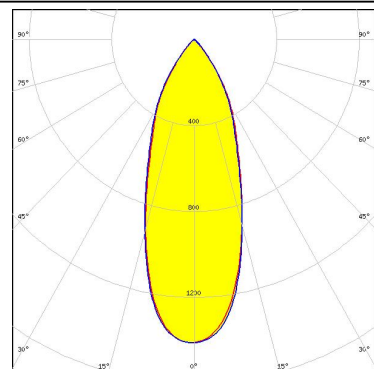
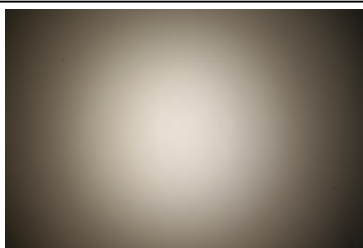
CITIZEN

LED CLL04x/CLU04x
FWHM 43.0°
Efficiency 78 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12692_LENINA-STD-BASE-CLL040
C12606_LENINA-DL



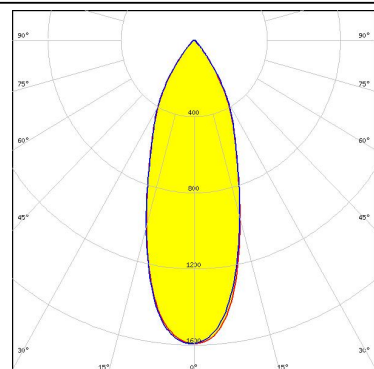
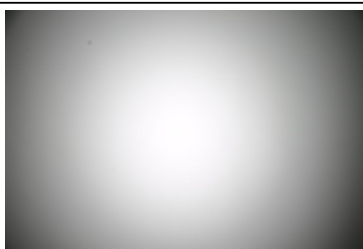
CITIZEN

LED CLL04x/CLU04x
FWHM 38.0°
Efficiency 76 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12606_LENINA-DL
A.A.G. STUCCHI: 8102/G2 + S-8000/12



CITIZEN

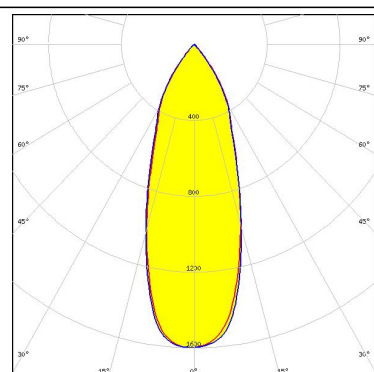
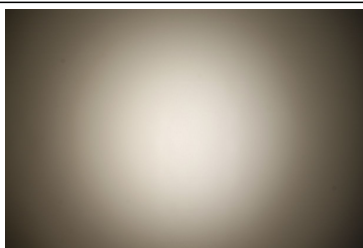
LED CLL04x/CLU04x
FWHM 37.0°
Efficiency 87 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12606_LENINA-DL
IDEAL: 50-2204CT + 50-2100LN



PHOTOMETRIC DATA (MEASURED):

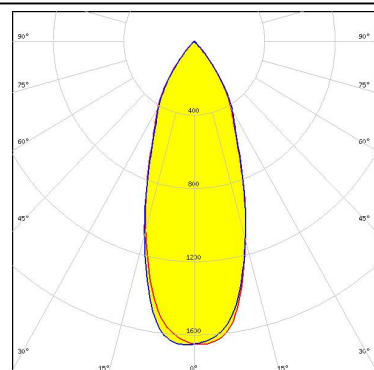
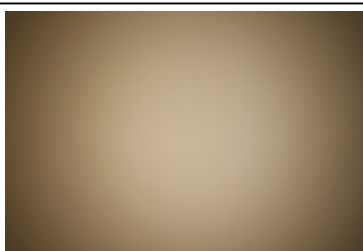
CITIZEN

LED CLL04x/CLU04x
FWHM 36.0°
Efficiency 83 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
A.A.G. STUCCHI: 8102/G2 + S-8000/12



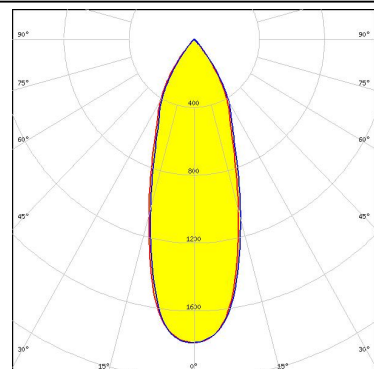
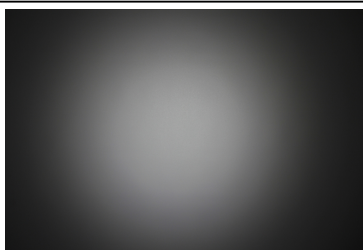
CITIZEN

LED CLL04x/CLU04x
FWHM 39.0°
Efficiency 92 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13867_LENINA-STD-BASE-VERO29
Bender Wirth: 431 Typ L3



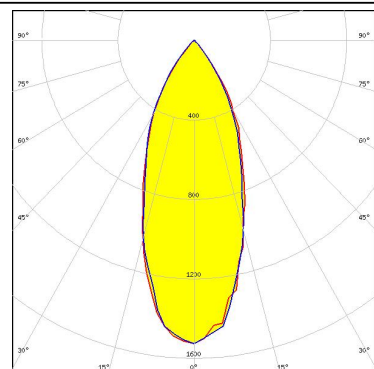
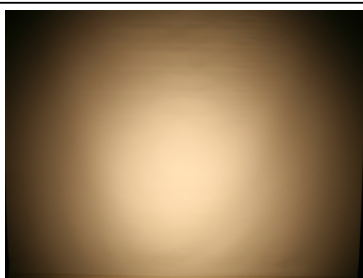
CITIZEN

LED CLL04x/CLU04x
FWHM 35.0°
Efficiency 90 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2204CT + 50-2100LN



CITIZEN

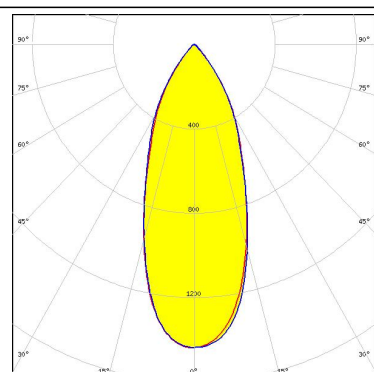
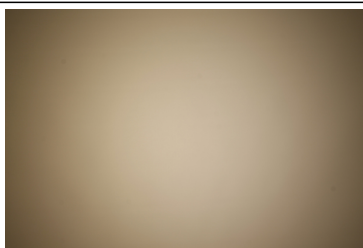
LED CLL04x/CLU04x
FWHM 40.0°
Efficiency 86 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12692_LENINA-STD-BASE-CLL040



PHOTOMETRIC DATA (MEASURED):

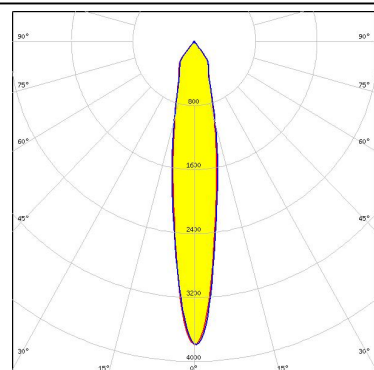
CITIZEN

LED CLL04x/CLU04x
FWHM 40.0°
Efficiency 87 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13867_LENINA-STD-BASE-VERO29
C12606_LENINA-DL
Bender Wirth: 431 Typ L3



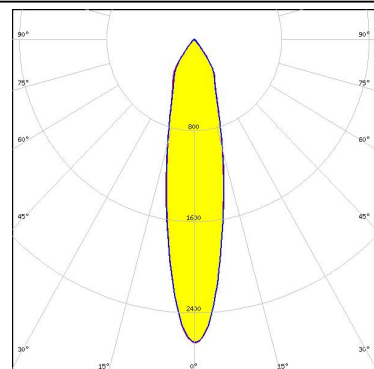
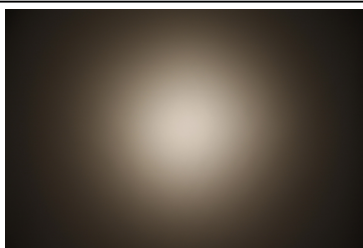
CITIZEN

LED CLU700/701/702
FWHM 17.0°
Efficiency 91 %
Peak intensity 3.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
Bender Wirth: 434 Typ L1



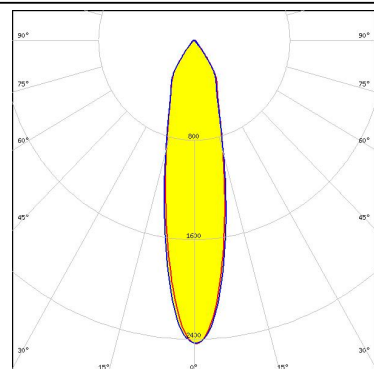
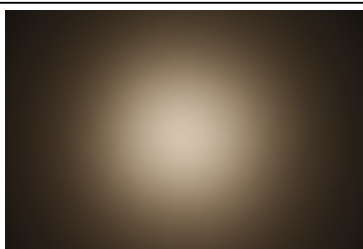
CITIZEN

LED CLU700/701/702
FWHM 23.0°
Efficiency 87 %
Peak intensity 2.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 434 Typ L1



CITIZEN

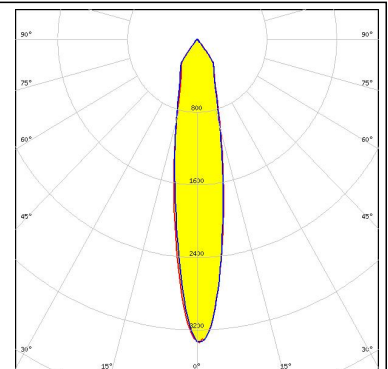
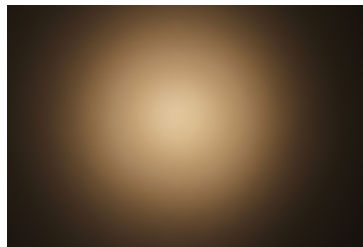
LED CLU710/711
FWHM 24.0°
Efficiency 89 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12691_LENINA-STD-BASE-CLL030
C12606_LENINA-DL



PHOTOMETRIC DATA (MEASURED):

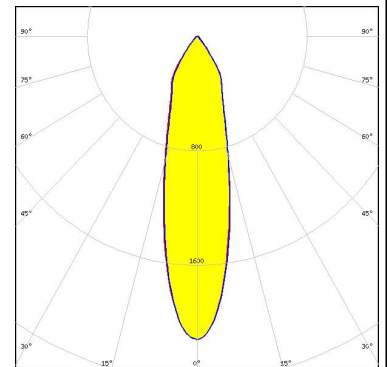
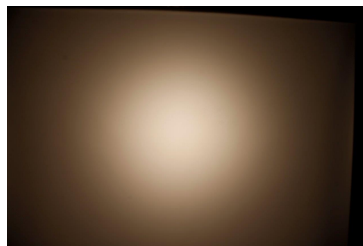
CITIZEN

LED CLU710/711
FWHM 19.0°
Efficiency 93 %
Peak intensity 3.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12691_LENINA-STD-BASE-CLL030



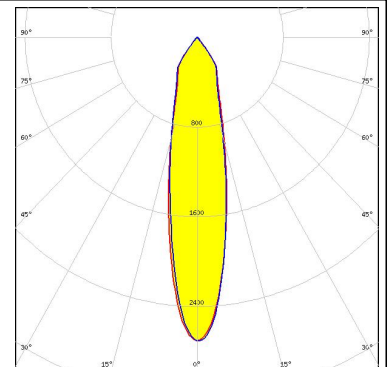
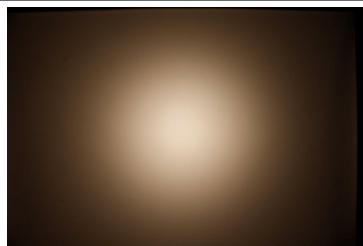
CITIZEN

LED CLU720/721
FWHM 26.0°
Efficiency 84 %
Peak intensity 2.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12691_LENINA-STD-BASE-CLL030
C12606_LENINA-DL



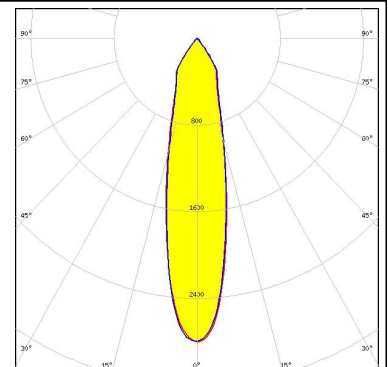
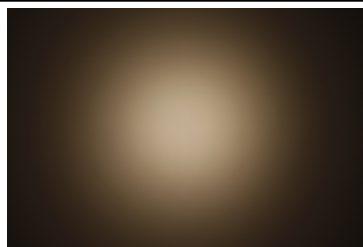
CITIZEN

LED CLU720/721
FWHM 23.0°
Efficiency 88 %
Peak intensity 2.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12691_LENINA-STD-BASE-CLL030



CITIZEN

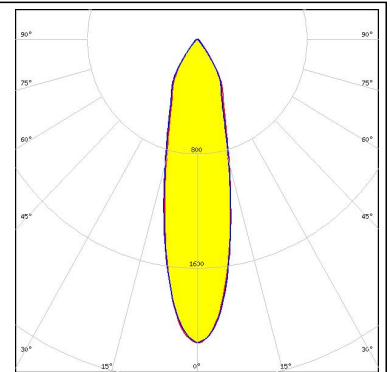
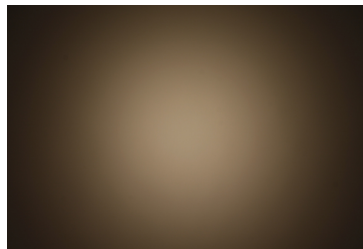
LED CLU730/731
FWHM 24.0°
Efficiency 94 %
Peak intensity 2.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12692_LENINA-STD-BASE-CLL040



PHOTOMETRIC DATA (MEASURED):

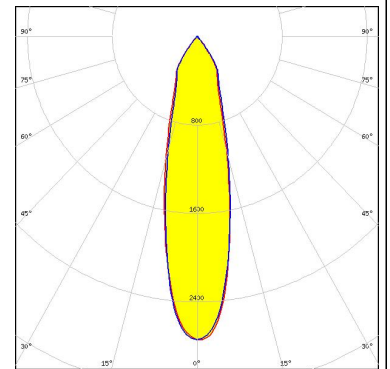
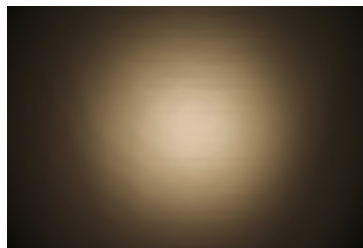
CITIZEN

LED CLU730/731
FWHM 26.0°
Efficiency 84 %
Peak intensity 2.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12692_LENINA-STD-BASE-CLL040
C12606_LENINA-DL



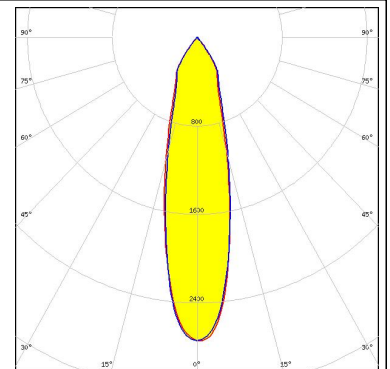
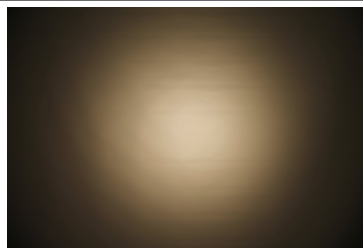
CREE

LED CMA1840
FWHM 25.0°
Efficiency 92 %
Peak intensity 2.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14146_LENINA-STD-BASE-CXA18



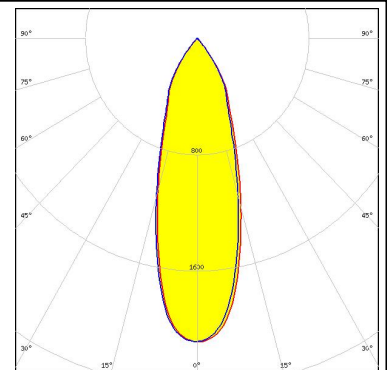
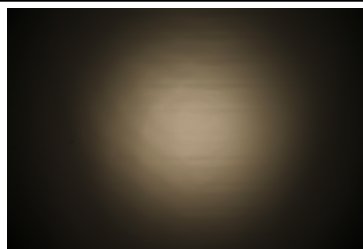
CREE

LED CMA1840
FWHM 25.0°
Efficiency 92 %
Peak intensity 2.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14146_LENINA-STD-BASE-CXA18



CREE

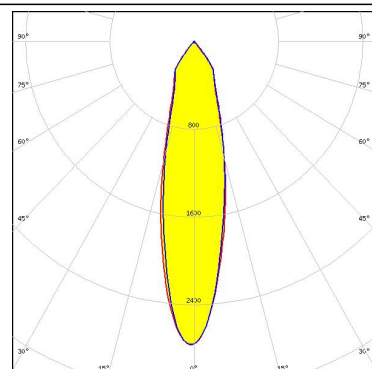
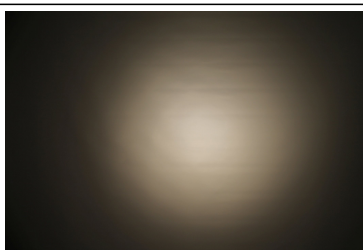
LED CMA2550
FWHM 32.0°
Efficiency 92 %
Peak intensity 2.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13324_LENINA-STD-BASE-CXA25



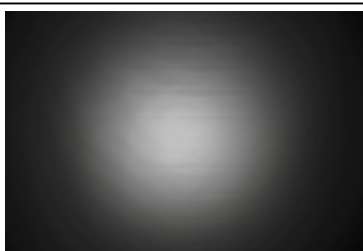
PHOTOMETRIC DATA (MEASURED):



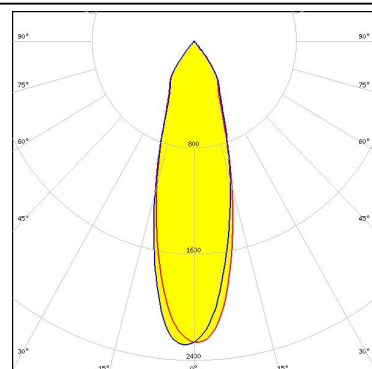
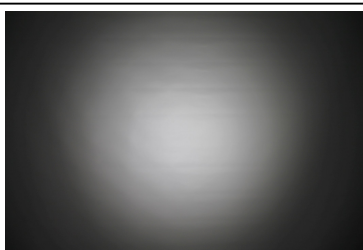
LED CMT14xx
FWHM 25.0°
Efficiency 92 %
Peak intensity 2.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
Bender Wirth: 434 Typ L1



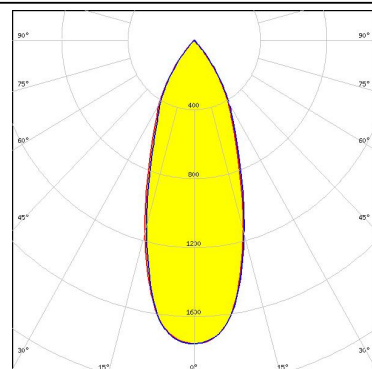
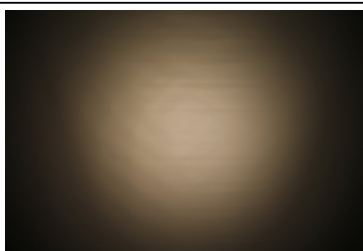
LED CMT19xx
FWHM 29.0°
Efficiency 92 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12691_LENINA-STD-BASE-CLL030



LED CMT19xx
FWHM 30.0°
Efficiency 92 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
Bender Wirth: 477 Typ L1



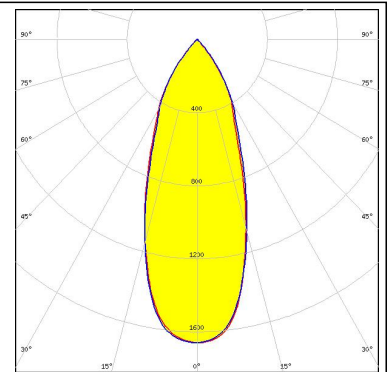
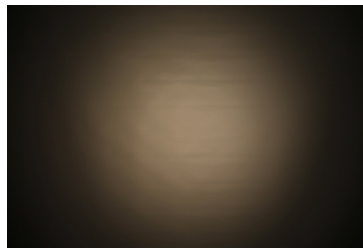
LED CMT28xx
FWHM 37.0°
Efficiency 92 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12692_LENINA-STD-BASE-CLL040



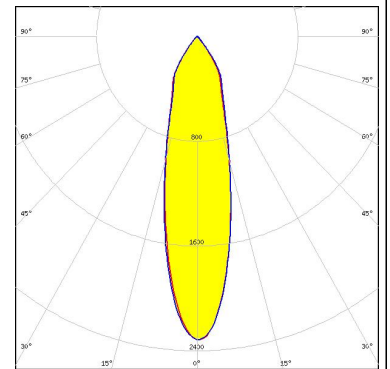
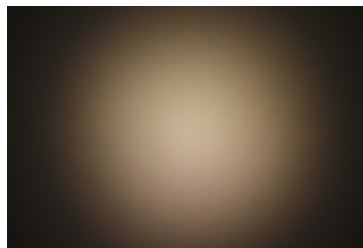
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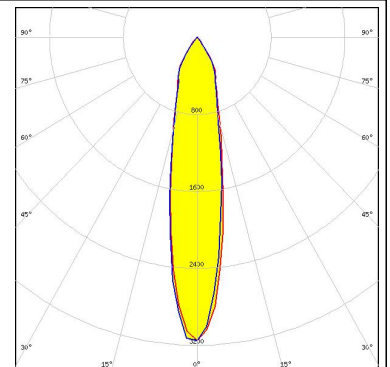
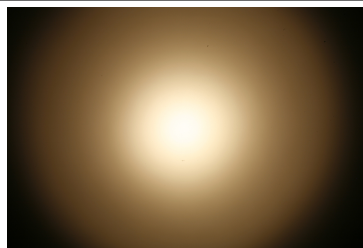
LED CMT28xx
FWHM 39.0°
Efficiency 92 %
Peak intensity 1.7 cd/Im
LEDs/each optic 1
Light colour White
Required components:
C13867_LENINA-STD-BASE-VERO29
Bender Wirth: 471 Typ L3



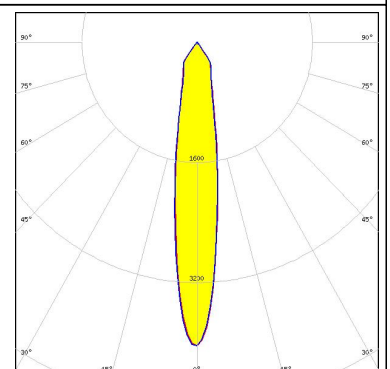
LED CXA/B 15xx
FWHM 26.0°
Efficiency 87 %
Peak intensity 2.3 cd/Im
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 441 Typ L1



LED CXA/B 15xx
FWHM 22.0°
Efficiency 86 %
Peak intensity 3.2 cd/Im
LEDs/each optic 1
Light colour White
Required components:
C13186_LENINA-STD-BASE-CXA15
C12606_LENINA-DL



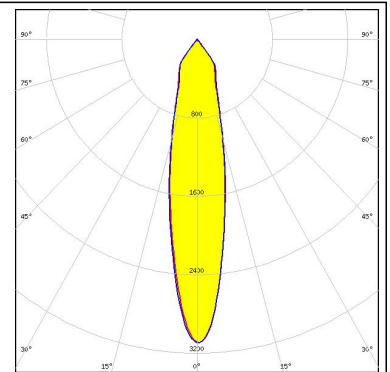
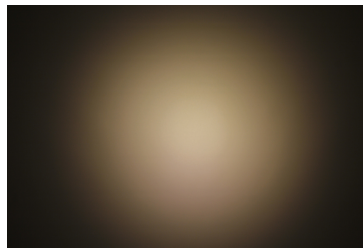
LED CXA/B 15xx
FWHM 17.0°
Efficiency 91 %
Peak intensity 4.1 cd/Im
LEDs/each optic 1
Light colour White
Required components:
C13186_LENINA-STD-BASE-CXA15



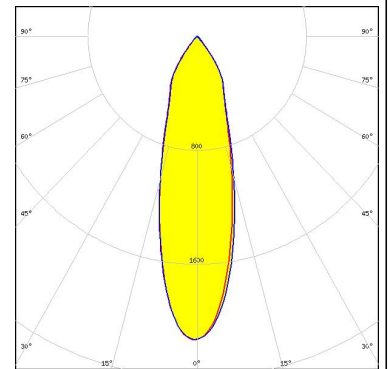
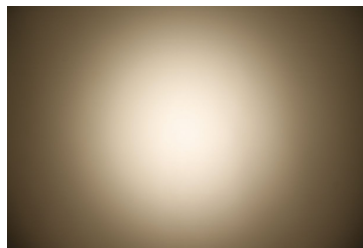
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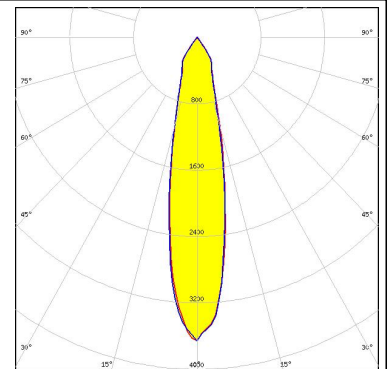
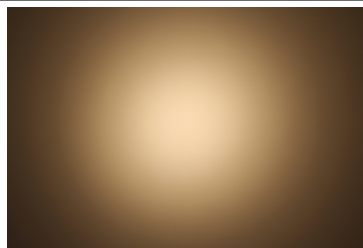
LED CXA/B 15xx
FWHM 22.0°
Efficiency %
Peak intensity 3.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
Bender Wirth: 441 Typ L1



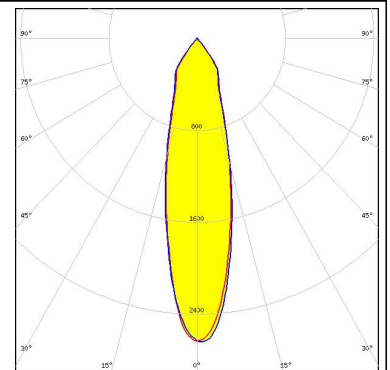
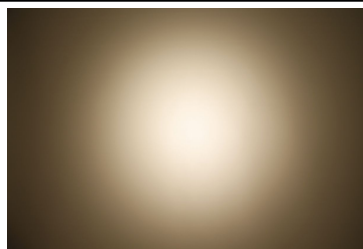
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM 29.0°
Efficiency 88 %
Peak intensity 2.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 437 Typ L1



LED CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM 21.0°
Efficiency 92 %
Peak intensity 3.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14146_LENINA-STD-BASE-CXA18



LED CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM 26.0°
Efficiency 92 %
Peak intensity 2.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
Bender Wirth: 437 Typ L1



PHOTOMETRIC DATA (MEASURED):



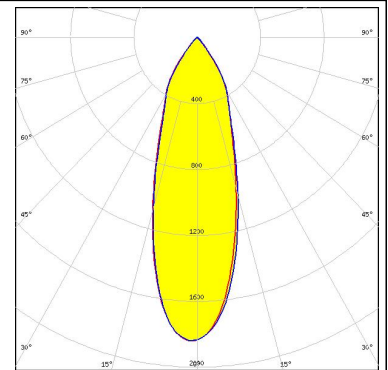
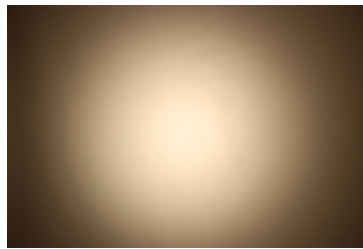
LED CXA/B 1830
FWHM 33.0°
Efficiency 88 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour White

Required components:

C13868_LENINA-STD-BASE-VERO13-18

C12606_LENINA-DL

Bender Wirth: 437 Typ L1

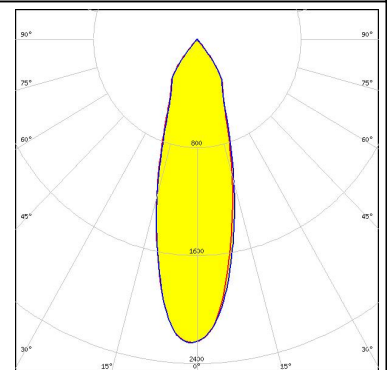
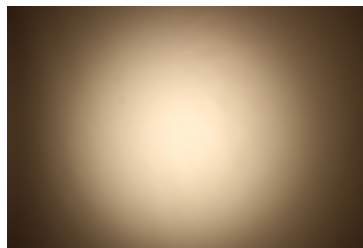


LED CXA/B 1830
FWHM 30.0°
Efficiency 93 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour White

Required components:

C13868_LENINA-STD-BASE-VERO13-18

Bender Wirth: 437 Typ L1

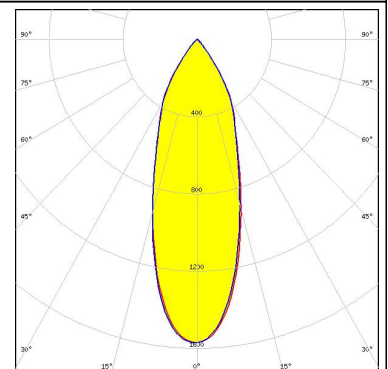
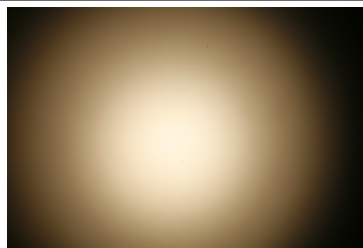


LED CXA/B 25xx
FWHM 35.0°
Efficiency 78 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour White

Required components:

C13324_LENINA-STD-BASE-CXA25

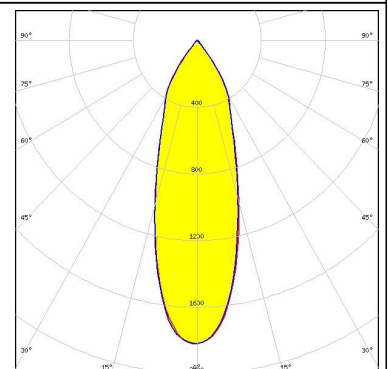
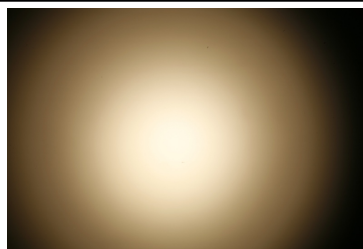
C12606_LENINA-DL



LED CXA/B 25xx
FWHM 33.0°
Efficiency 86 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour White

Required components:

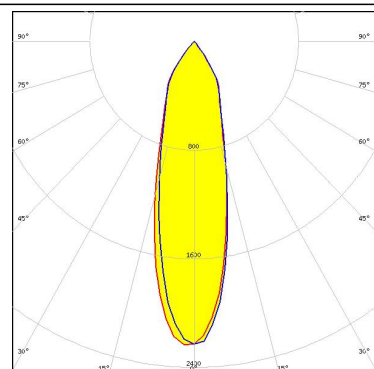
C13324_LENINA-STD-BASE-CXA25



PHOTOMETRIC DATA (MEASURED):

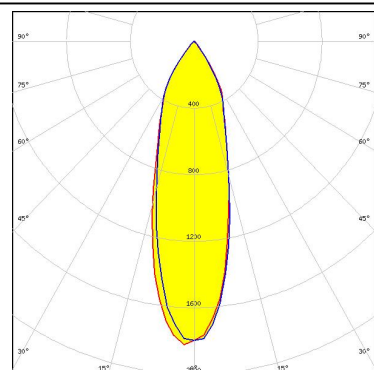
CREE

LED CXA2011
FWHM 28.0°
Efficiency 85 %
Peak intensity 2.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12105_LENINA-STD-BASE-CXA20



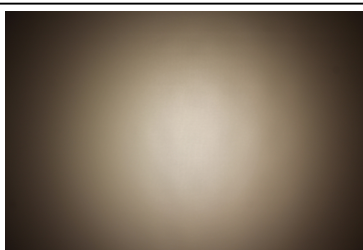
CREE

LED CXA2011
FWHM 33.0°
Efficiency 77 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12105_LENINA-STD-BASE-CXA20
C12606_LENINA-DL



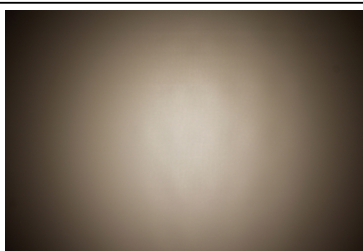
EVERLIGHT

LED CHI3030 19W
FWHM 39.0°
Efficiency 91 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13867_LENINA-STD-BASE-VERO29
C12606_LENINA-DL
Bender Wirth: 468 Typ L3



EVERLIGHT

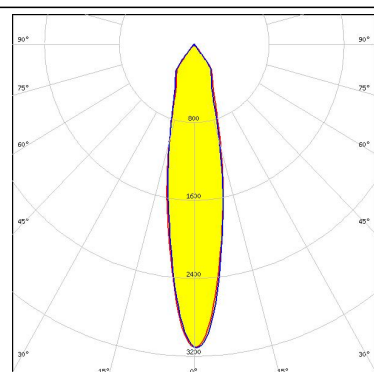
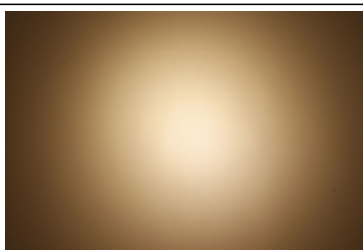
LED CHI3030 29W
FWHM 47.0°
Efficiency 87 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13867_LENINA-STD-BASE-VERO29
C12606_LENINA-DL
Bender Wirth: 468 Typ L3



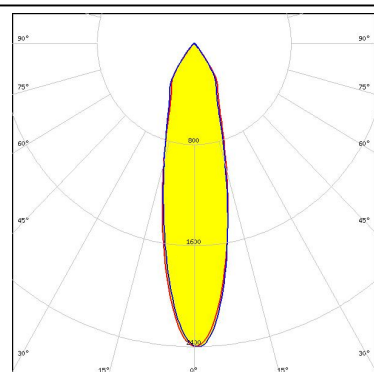
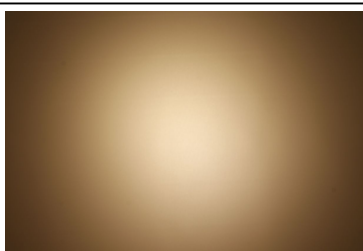
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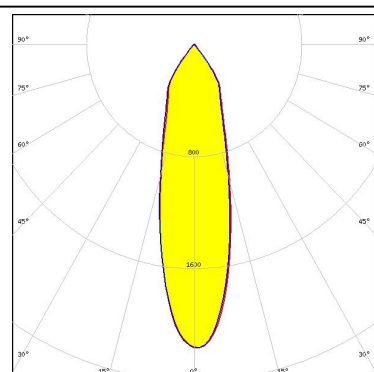
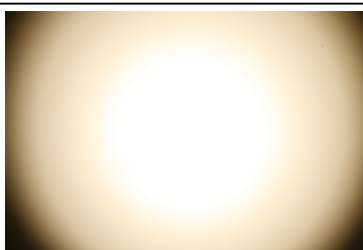
LED LUXEON CoB 1202/1203
FWHM 22.0°
Efficiency 92 %
Peak intensity 3.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
Bender Wirth: 438 Typ L1



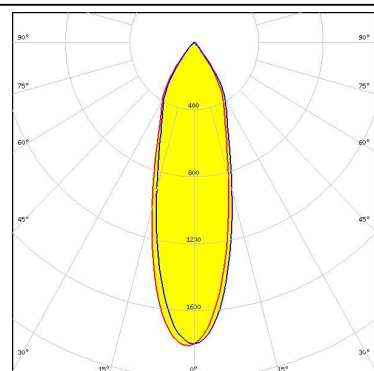
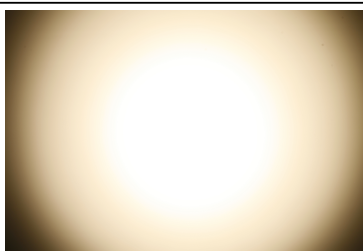
LED LUXEON CoB 1202/1203
FWHM 26.0°
Efficiency 88 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 438 Typ L1



LED LUXEON CoB 1204/1205
FWHM 28.0°
Efficiency 87 %
Peak intensity 2.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12292_LENINA-STD-BASE-MEZ



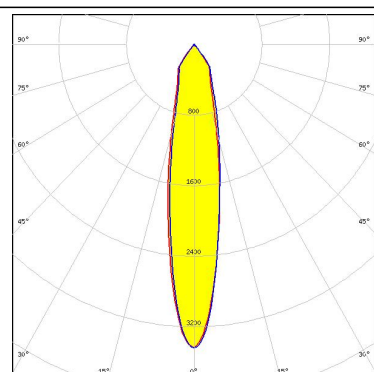
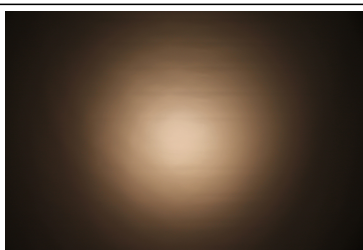
LED LUXEON CoB 1204/1205
FWHM 30.0°
Efficiency 82 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12292_LENINA-STD-BASE-MEZ
C12606_LENINA-DL



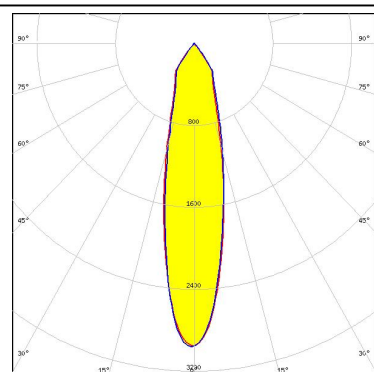
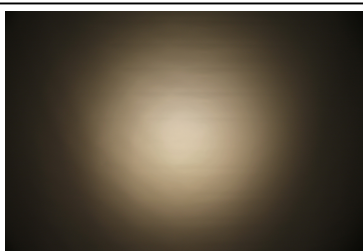
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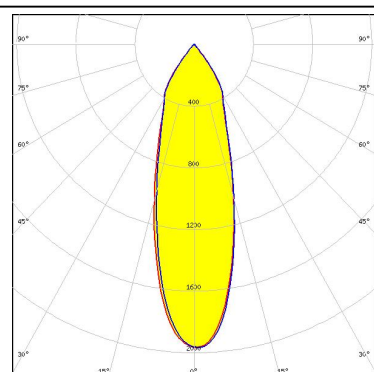
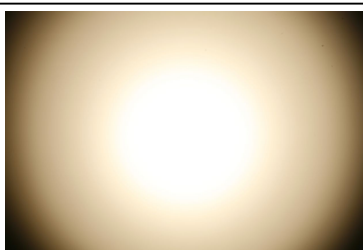
LED LUXEON CoB 1204HD
FWHM 20.0°
Efficiency 92 %
Peak intensity 3.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C11981_LENINA-STD-BASE-COB-L110



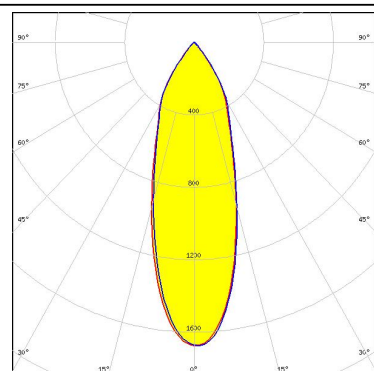
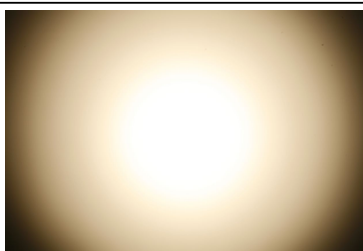
LED LUXEON CoB 1205HD
FWHM 23.0°
Efficiency 92 %
Peak intensity 3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C11981_LENINA-STD-BASE-COB-L110



LED LUXEON CoB 1208
FWHM 31.0°
Efficiency 88 %
Peak intensity 2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12292_LENINA-STD-BASE-MEZ



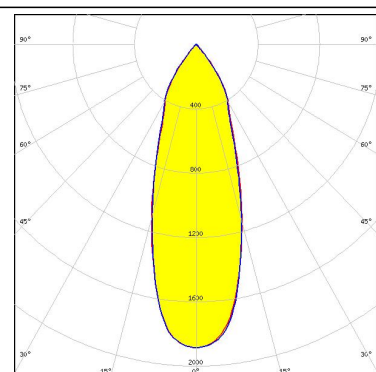
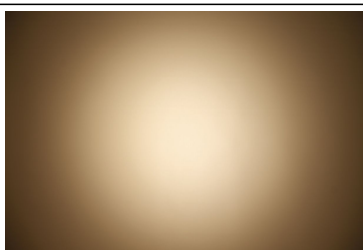
LED LUXEON CoB 1208
FWHM 33.0°
Efficiency 83 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12292_LENINA-STD-BASE-MEZ
C12606_LENINA-DL



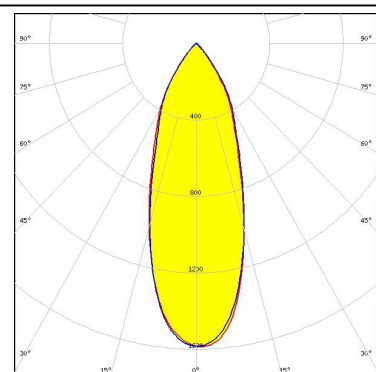
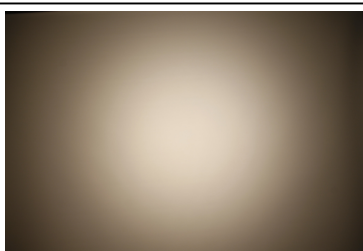
PHOTOMETRIC DATA (MEASURED):



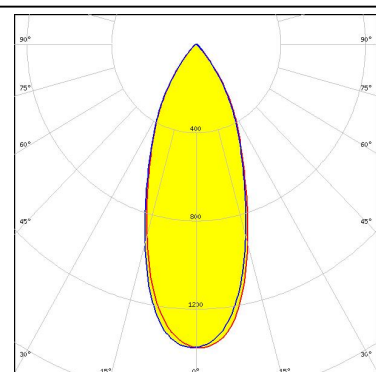
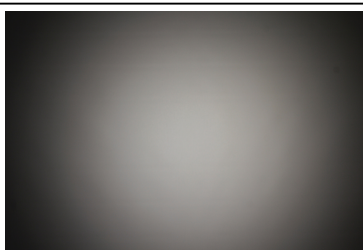
LED LUXEON CoB 1211
 FWHM 35.0°
 Efficiency 93 %
 Peak intensity 1.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13867_LENINA-STD-BASE-VERO29
 Bender Wirth: 431 Typ L3



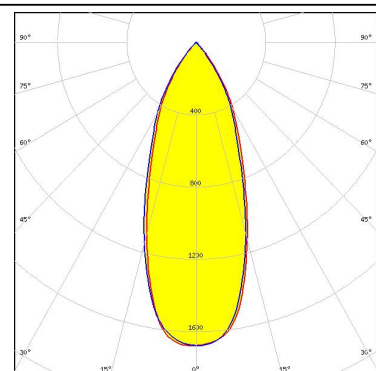
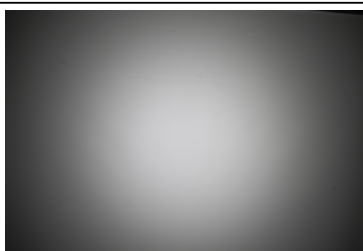
LED LUXEON CoB 1211
 FWHM 37.0°
 Efficiency 87 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13867_LENINA-STD-BASE-VERO29
 C12606_LENINA-DL
 Bender Wirth: 431 Typ L3



LED LUXEON CoB 1216/1812
 FWHM 39.0°
 Efficiency 81 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12606_LENINA-DL
 A.A.G. STUCCHI: 8102/G2 + S-8000/12



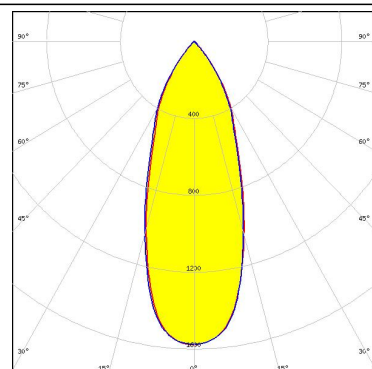
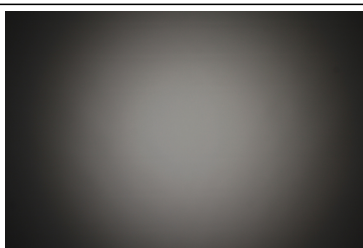
LED LUXEON CoB 1216/1812
 FWHM 39.0°
 Efficiency 92 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12692_LENINA-STD-BASE-CLL040



PHOTOMETRIC DATA (MEASURED):



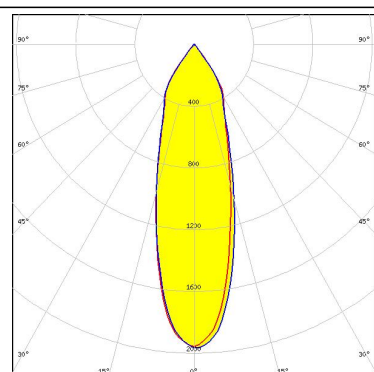
LED LUXEON CoB 1216/1812
FWHM 38.0°
Efficiency 85 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
A.A.G. STUCCHI: 8102/G2 + S-8000/12



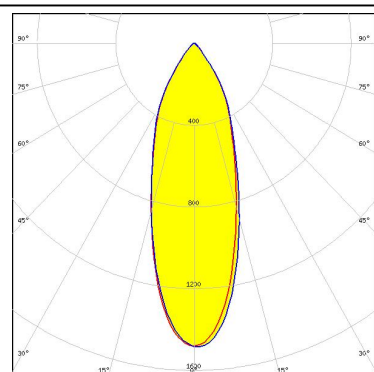
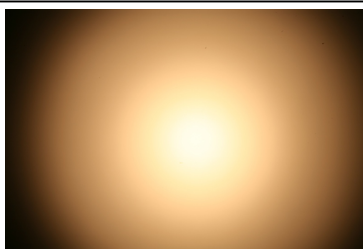
PHOTOMETRIC DATA (MEASURED):



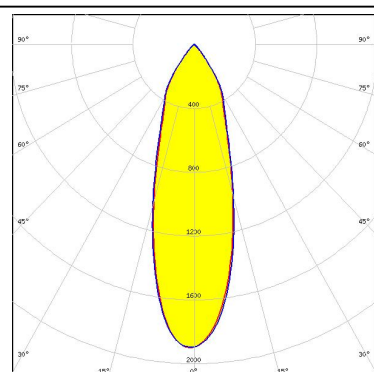
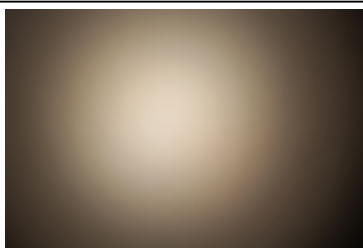
LED LUXEON K16
FWHM 30.0°
Efficiency 85 %
Peak intensity 2 cd/Im
LEDs/each optic 1
Light colour White
Required components:
C12924_LENINA-STD-BASE-LUXEON-K



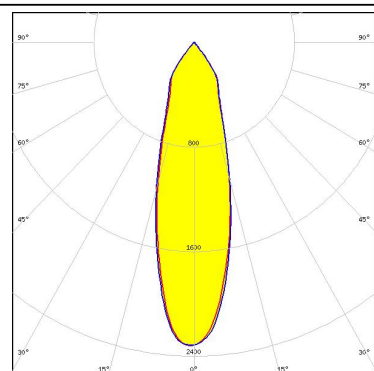
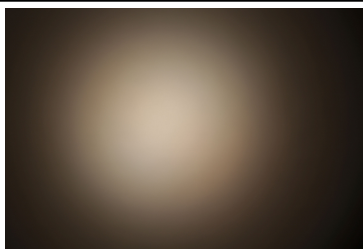
LED LUXEON K16
FWHM 34.0°
Efficiency 79 %
Peak intensity 1.5 cd/Im
LEDs/each optic 1
Light colour White
Required components:
C12924_LENINA-STD-BASE-LUXEON-K
C12606_LENINA-DL



LED CDM-14 (Dim-To-Warm)
FWHM 31.0°
Efficiency 88 %
Peak intensity 1.9 cd/Im
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 491 Typ L2



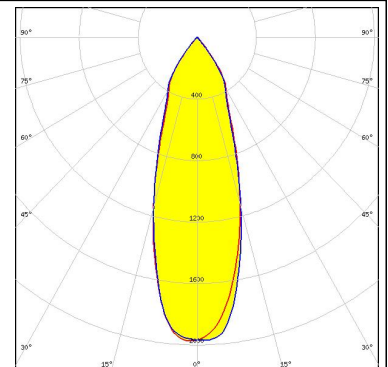
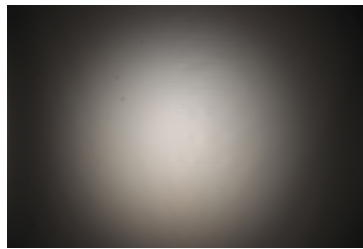
LED CDM-14 (Dim-To-Warm)
FWHM 29.0°
Efficiency 92 %
Peak intensity 2.3 cd/Im
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
Bender Wirth: 491 Typ L2



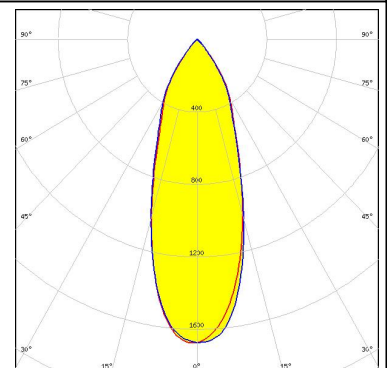
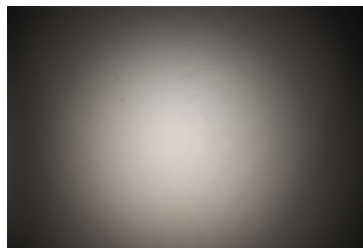
PHOTOMETRIC DATA (MEASURED):



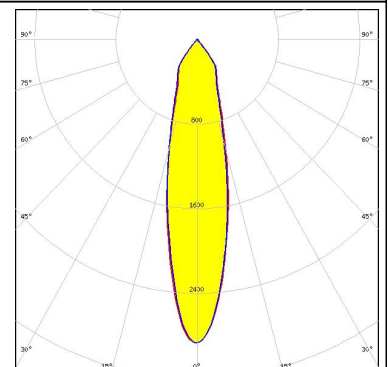
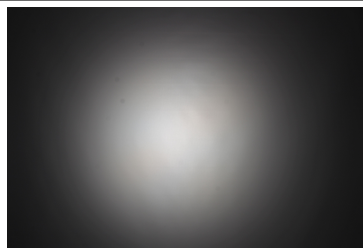
LED CDM-18 (Dim-To-Warm)
FWHM 34.0°
Efficiency 92 %
Peak intensity 2 cd/Im
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
Bender Wirth: 491 Typ L2



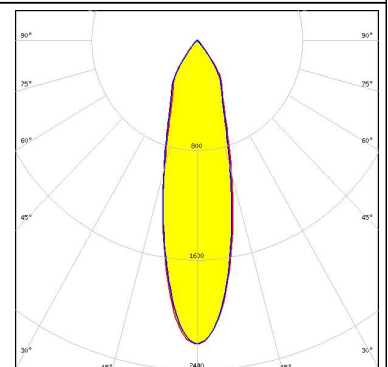
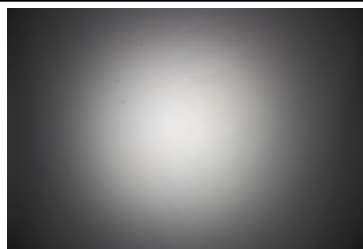
LED CDM-18 (Dim-To-Warm)
FWHM 36.0°
Efficiency 88 %
Peak intensity 1.7 cd/Im
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 491 Typ L2



LED CDM-9 (Dim-To-Warm)
FWHM 24.0°
Efficiency 92 %
Peak intensity 2.9 cd/Im
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
Bender Wirth: 490 Typ L1



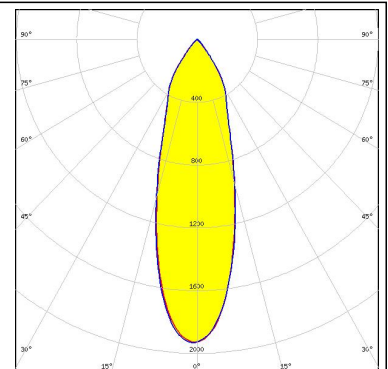
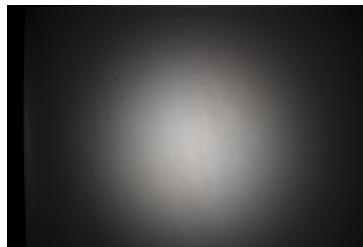
LED CDM-9 (Dim-To-Warm)
FWHM 27.0°
Efficiency 87 %
Peak intensity 2.2 cd/Im
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 490 Typ L1



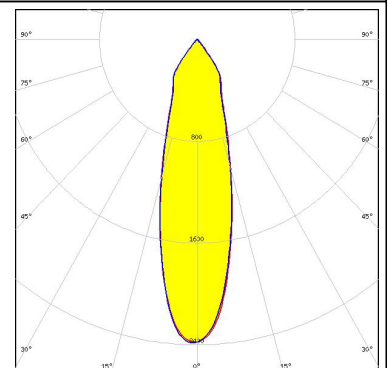
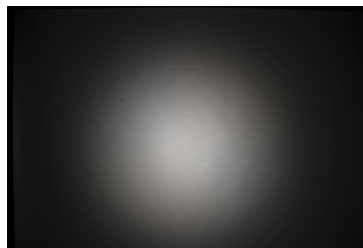
PHOTOMETRIC DATA (MEASURED):



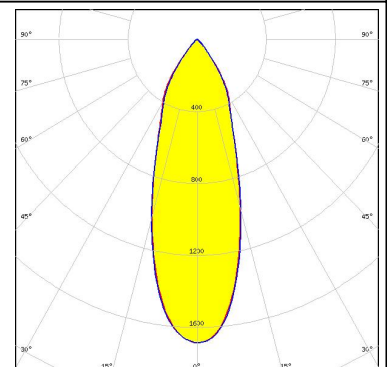
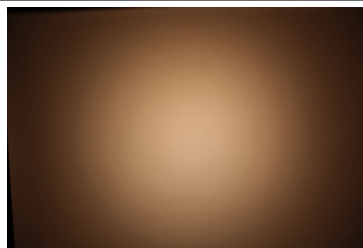
LED CTM-14 (Tunable White)
FWHM 31.0°
Efficiency 87 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13867_LENINA-STD-BASE-VERO29
C12606_LENINA-DL
Bender Wirth: 442 Typ L3



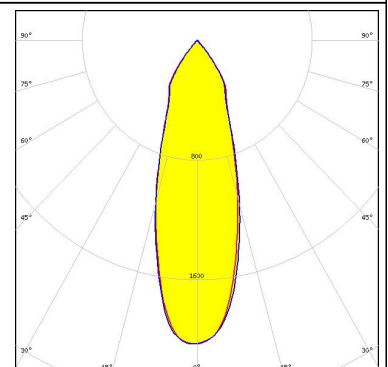
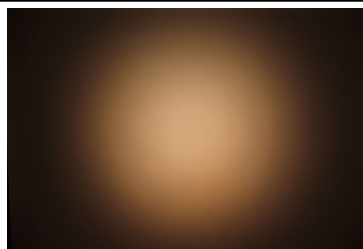
LED CTM-14 (Tunable White)
FWHM 28.0°
Efficiency 92 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13867_LENINA-STD-BASE-VERO29
Bender Wirth: 442 Typ L3



LED CTM-18 (Tunable White)
FWHM 34.0°
Efficiency 87 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13867_LENINA-STD-BASE-VERO29
C12606_LENINA-DL
Bender Wirth: 442 Typ L3



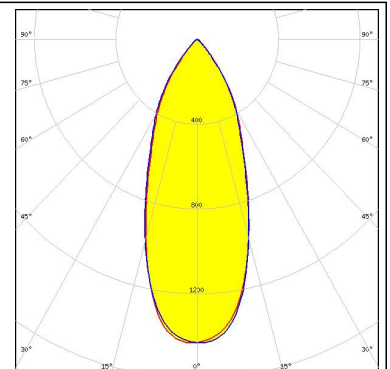
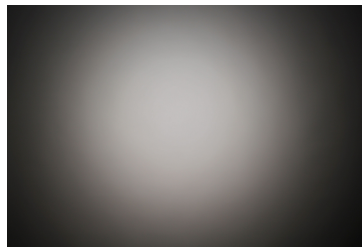
LED CTM-18 (Tunable White)
FWHM 32.0°
Efficiency 92 %
Peak intensity 2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13867_LENINA-STD-BASE-VERO29
Bender Wirth: 442 Typ L3



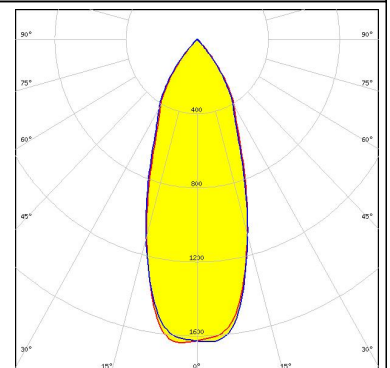
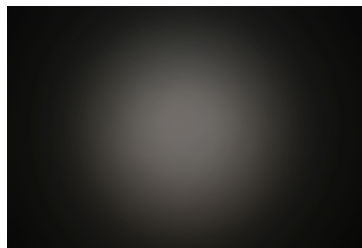
PHOTOMETRIC DATA (MEASURED):



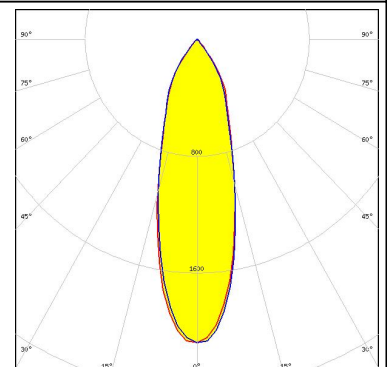
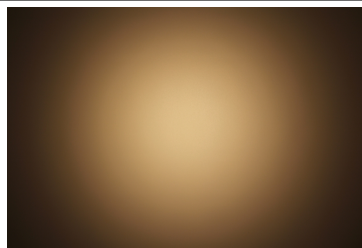
LED CTM-22 (Tunable White)
FWHM 40.0°
Efficiency 87 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13867_LENINA-STD-BASE-VERO29
C12606_LENINA-DL
Bender Wirth: 494 Typ L3



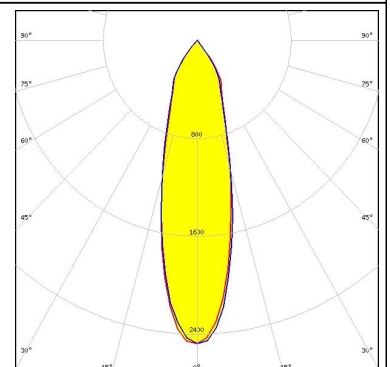
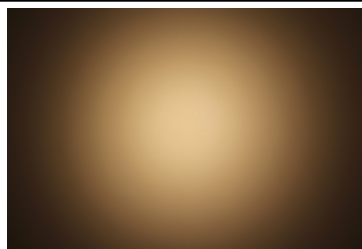
LED CTM-22 (Tunable White)
FWHM 39.0°
Efficiency 92 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13867_LENINA-STD-BASE-VERO29
Bender Wirth: 494 Typ L3



LED CxM-14 (19x19)
FWHM 31.0°
Efficiency 89 %
Peak intensity 2.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12691_LENINA-STD-BASE-CLL030
C12606_LENINA-DL



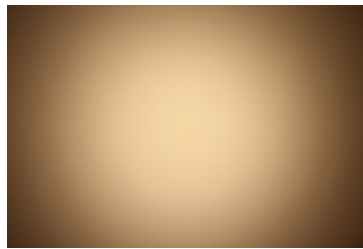
LED CxM-14 (19x19)
FWHM 28.0°
Efficiency 93 %
Peak intensity 2.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12691_LENINA-STD-BASE-CLL030



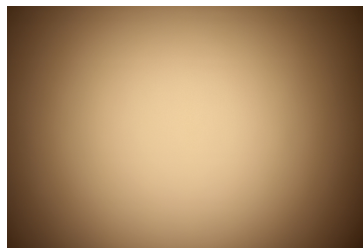
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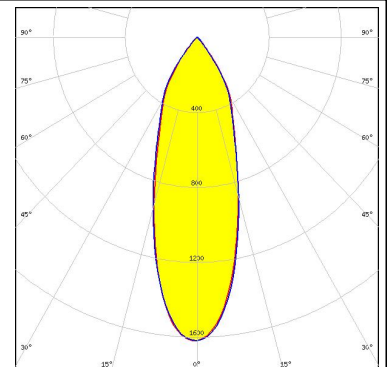
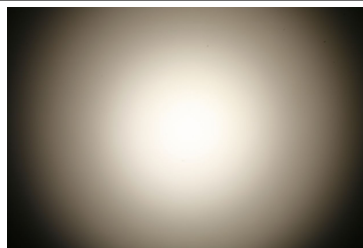
LED CxM-22 (28x28)
FWHM 39.0°
Efficiency 92 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12692_LENINA-STD-BASE-CLL040



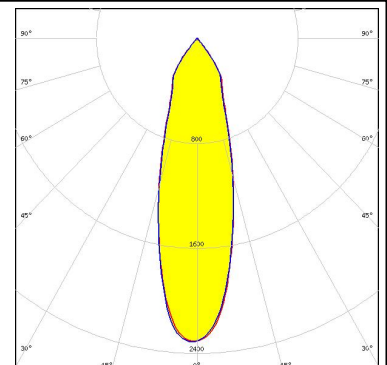
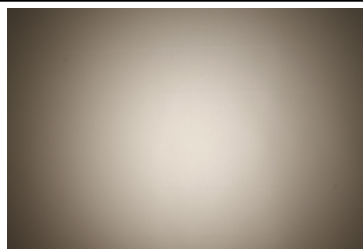
LED CxM-22 (28x28)
FWHM 40.0°
Efficiency 89 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12692_LENINA-STD-BASE-CLL040
C12606_LENINA-DL



LED COB J-Type
FWHM 33.0°
Efficiency 81 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12292_LENINA-STD-BASE-MEZ
C12606_LENINA-DL



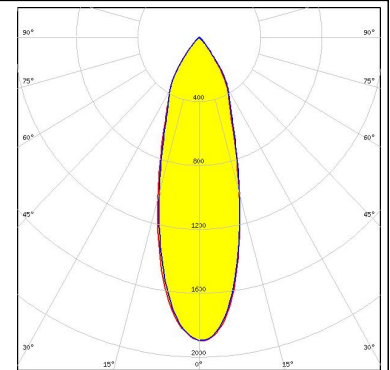
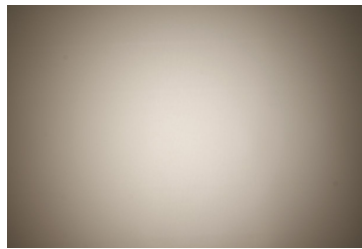
LED COB J-Type
FWHM 29.0°
Efficiency 93 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
Bender Wirth: 463 Typ L2



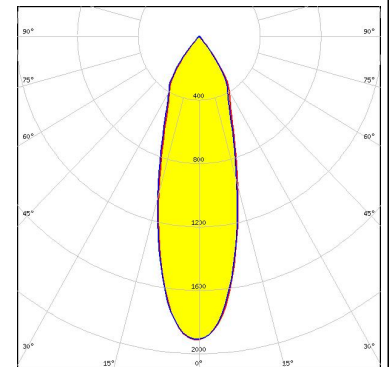
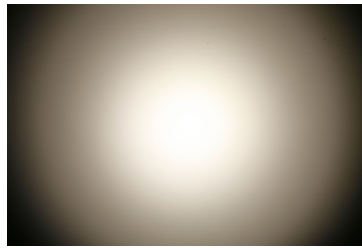
PHOTOMETRIC DATA (MEASURED):



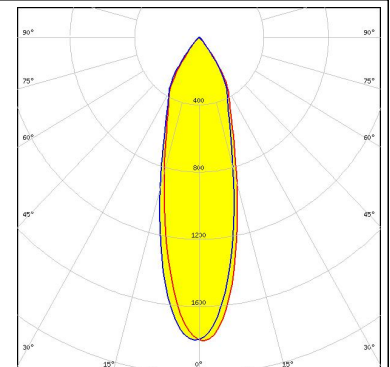
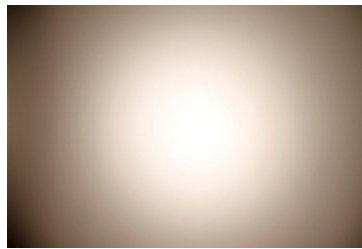
LED COB J-Type
FWHM 32.0°
Efficiency 89 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL



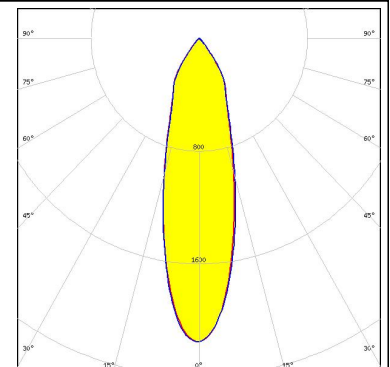
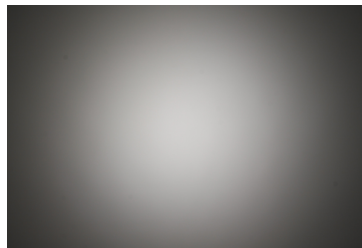
LED COB J-Type
FWHM 31.0°
Efficiency 86 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12292_LENINA-STD-BASE-MEZ



LED COB L-Type (LES 11)
FWHM 29.0°
Efficiency 79 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C11981_LENINA-STD-BASE-COB-L110
C12606_LENINA-DL



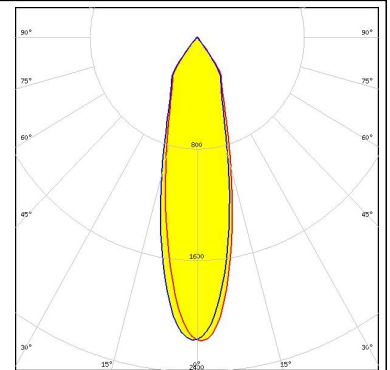
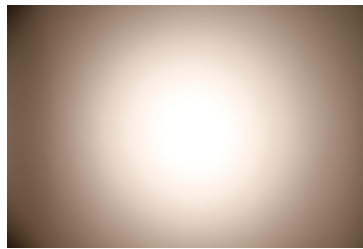
LED COB L-Type (LES 11)
FWHM 28.0°
Efficiency 87 %
Peak intensity 2.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 438 Typ L1



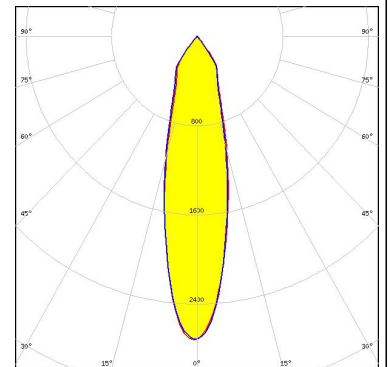
PHOTOMETRIC DATA (MEASURED):



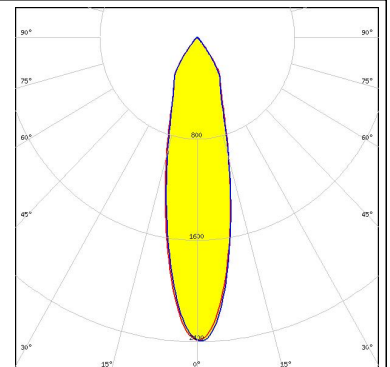
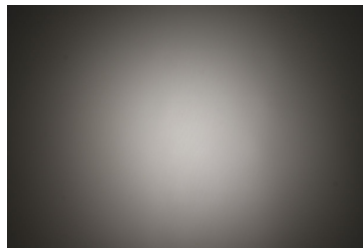
LED COB L-Type (LES 11)
FWHM 27.0°
Efficiency 84 %
Peak intensity 2.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C11981_LENINA-STD-BASE-COB-L110



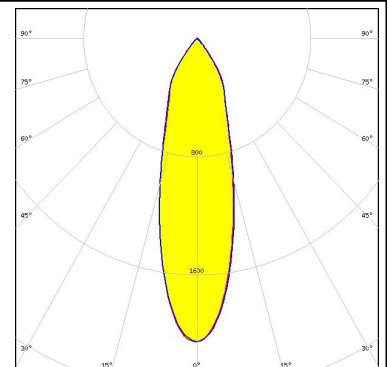
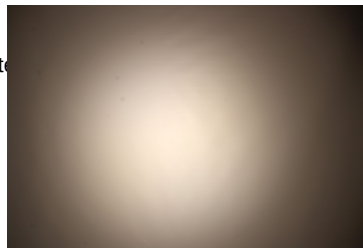
LED COB L-Type (LES 11)
FWHM 25.0°
Efficiency 91 %
Peak intensity 2.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
Bender Wirth: 438 Typ L1



LED COB L-Type (LES 9)
FWHM 26.0°
Efficiency 89 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 438 Typ L1



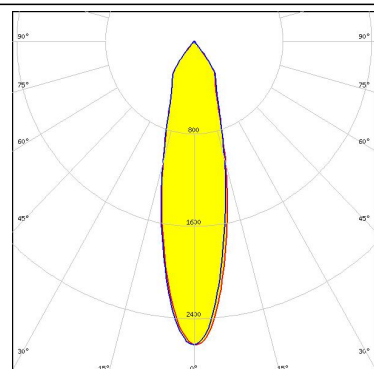
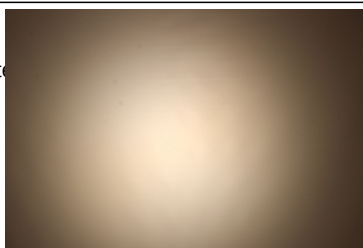
LED NVCWJ024Z-V1MT: COB J-Type Tunable White
FWHM 29.0°
Efficiency 87 %
Peak intensity 2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 498 Typ L2



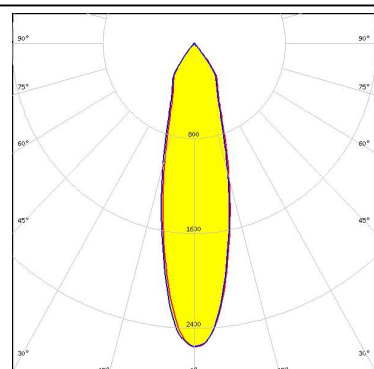
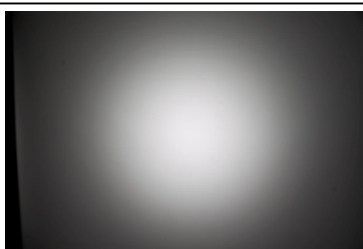
PHOTOMETRIC DATA (MEASURED):



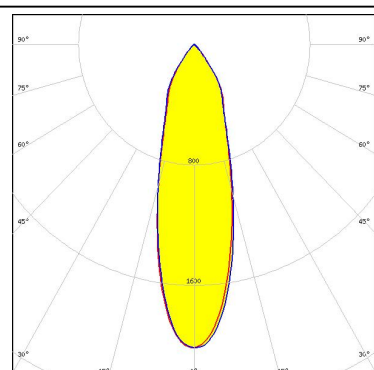
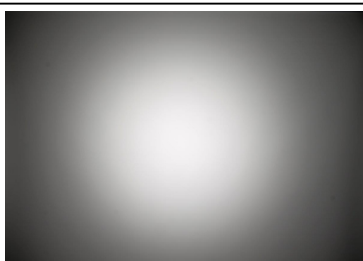
LED NVCWJ024Z-V1MT: COB J-Type Tunable White
 FWHM 26.0°
 Efficiency 92 %
 Peak intensity 2.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13868_LENINA-STD-BASE-VERO13-18
 Bender Wirth: 498 Typ L2



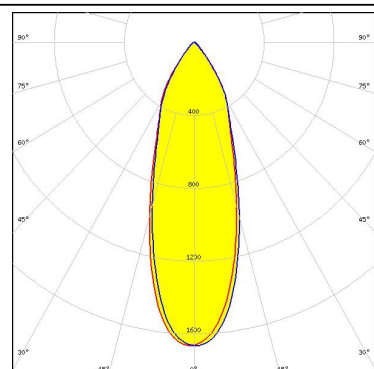
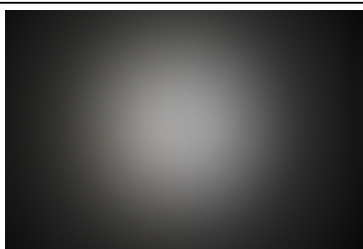
LED Soleriq S13
 FWHM 27.0°
 Efficiency 91 %
 Peak intensity 2.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13868_LENINA-STD-BASE-VERO13-18
 Bender Wirth: 437 Typ L1



LED Soleriq S13
 FWHM 30.0°
 Efficiency 87 %
 Peak intensity 2 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 S19
 FWHM 34.0°
 Efficiency 89 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13867_LENINA-STD-BASE-VERO29
 C12606_LENINA-DL
 Bender Wirth: 462 Typ L3

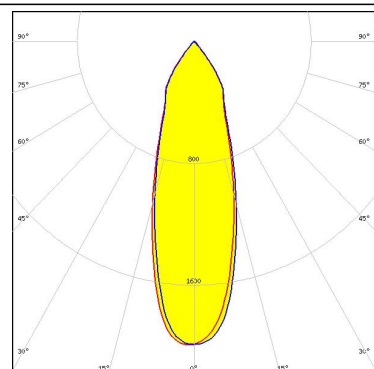
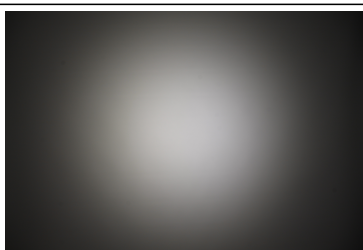


PHOTOMETRIC DATA (MEASURED):

OSRAM

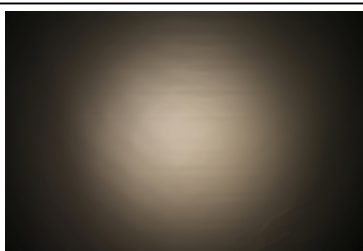
Opto Semiconductors

LED Soleriq S19
FWHM 32.0°
Efficiency 93 %
Peak intensity 2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13867_LENINA-STD-BASE-VERO29
Bender Wirth: 462 Typ L3



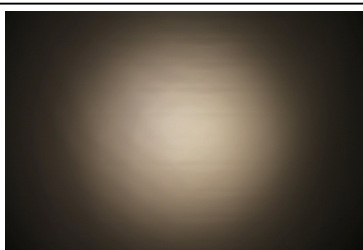
PHILIPS

LED Fortimo SLM L13 CoB
FWHM 30.0°
Efficiency 86 %
Peak intensity 2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12292_LENINA-STD-BASE-MEZ
C12606_LENINA-DL



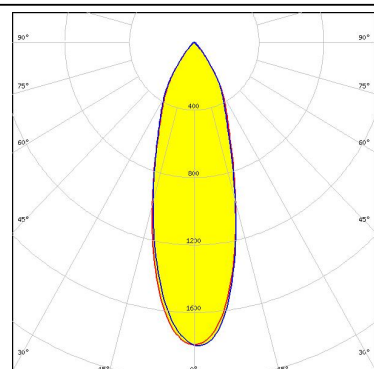
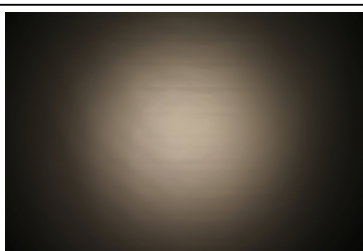
PHILIPS

LED Fortimo SLM L13 CoB
FWHM 27.0°
Efficiency 93 %
Peak intensity 2.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12292_LENINA-STD-BASE-MEZ



PHILIPS

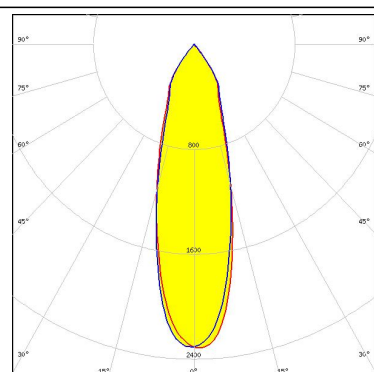
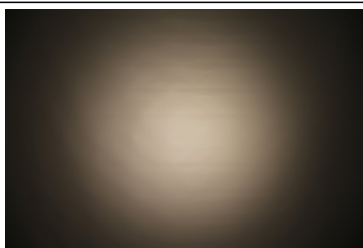
LED Fortimo SLM L15 CoB
FWHM 32.0°
Efficiency 86 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12292_LENINA-STD-BASE-MEZ
C12606_LENINA-DL



PHOTOMETRIC DATA (MEASURED):

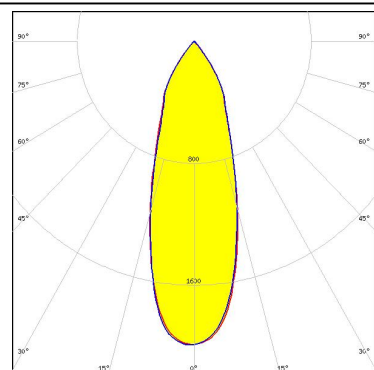
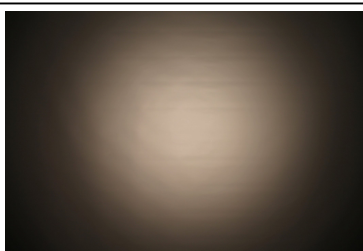
PHILIPS

LED Fortimo SLM L15 CoB
FWHM 29.0°
Efficiency %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12292_LENINA-STD-BASE-MEZ



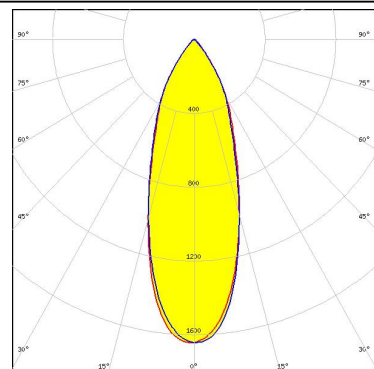
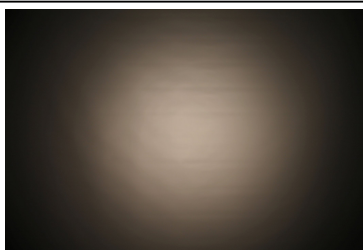
PHILIPS

LED Fortimo SLM L19 CoB
FWHM 33.0°
Efficiency 92 %
Peak intensity 2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12692_LENINA-STD-BASE-CLL040



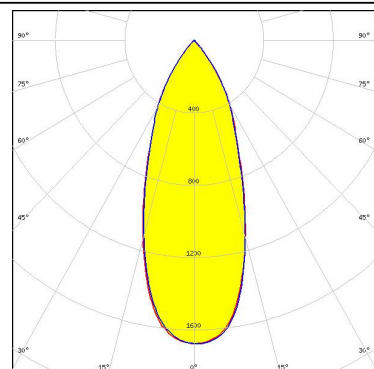
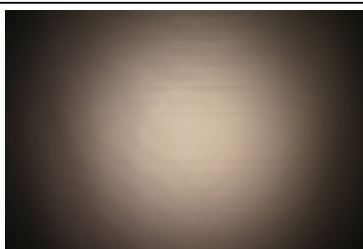
PHILIPS

LED Fortimo SLM L19 CoB
FWHM 35.0°
Efficiency 86 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12692_LENINA-STD-BASE-CLL040
C12606_LENINA-DL



PHILIPS

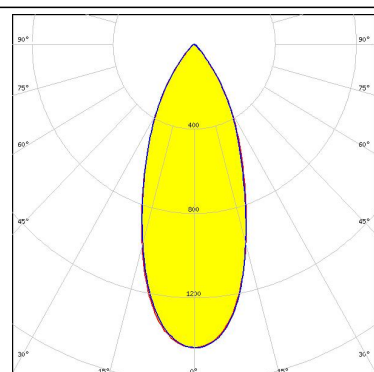
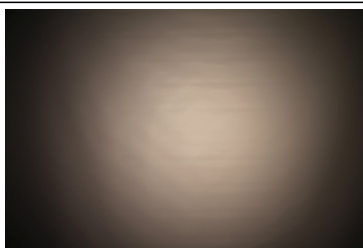
LED Fortimo SLM L23 CoB
FWHM 39.0°
Efficiency 92 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12692_LENINA-STD-BASE-CLL040



PHOTOMETRIC DATA (MEASURED):

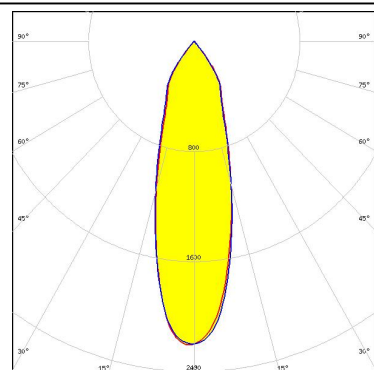
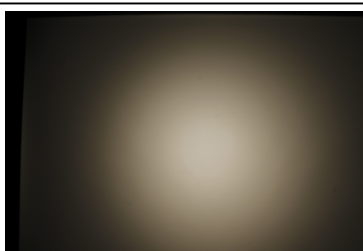
PHILIPS

LED Fortimo SLM L23 CoB
FWHM 40.0°
Efficiency 86 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12692_LENINA-STD-BASE-CLL040
C12606_LENINA-DL



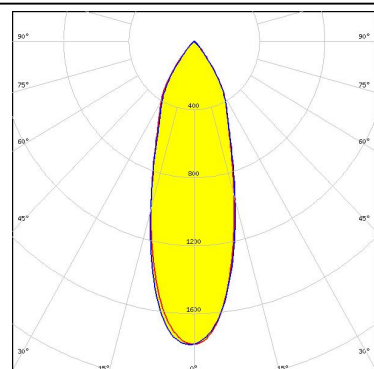
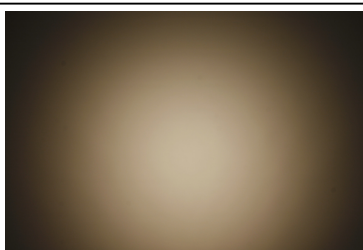
SAMSUNG

LED LC016D / LC019D / LC026D / LC033D
FWHM 30.0°
Efficiency 92 %
Peak intensity 2.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12691_LENINA-STD-BASE-CLL030



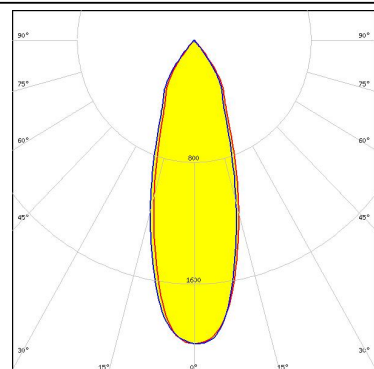
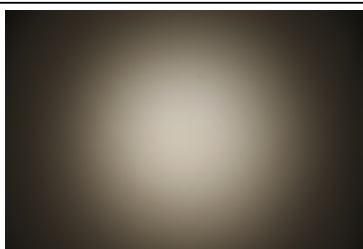
SAMSUNG

LED LC016D / LC019D / LC026D / LC033D
FWHM 33.0°
Efficiency 87 %
Peak intensity 1.8 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 33.0°
Efficiency 92 %
Peak intensity 2 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 35.0°

Efficiency 88 %

Peak intensity 1.7 cd/lm

LEDs/each optic 1

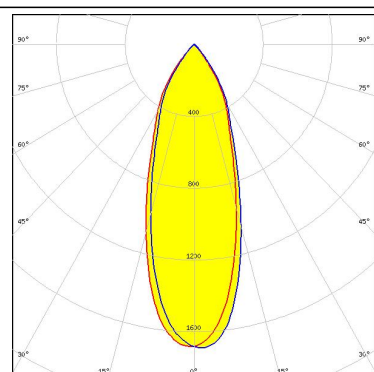
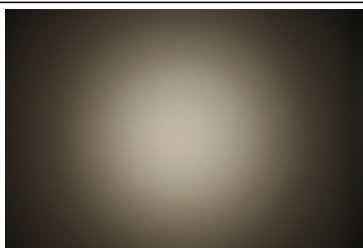
Light colour White

Required components:

C13868_LENINA-STD-BASE-VERO13-18

C12606_LENINA-DL

Bender Wirth: 450 Typ L2



SAMSUNG

LED LC040D / LC060D / LC080D

FWHM 40.0°

Efficiency 91 %

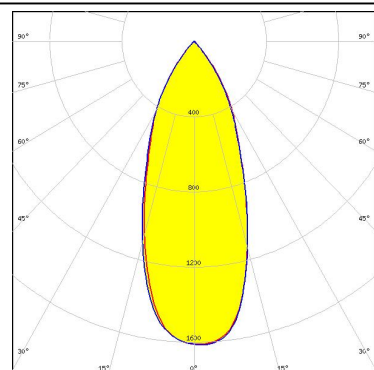
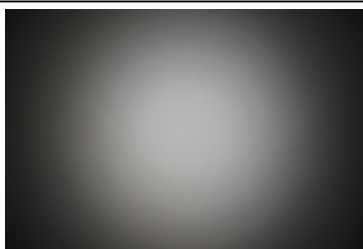
Peak intensity 1.6 cd/lm

LEDs/each optic 1

Light colour White

Required components:

C12692_LENINA-STD-BASE-CLL040



SAMSUNG

LED LC040D / LC060D / LC080D

FWHM 41.0°

Efficiency 87 %

Peak intensity 1.4 cd/lm

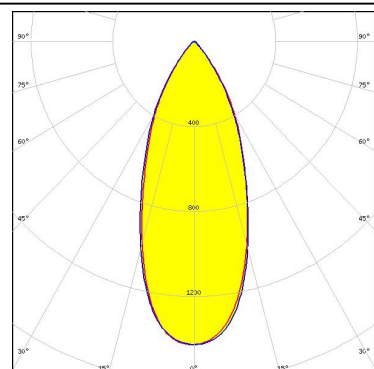
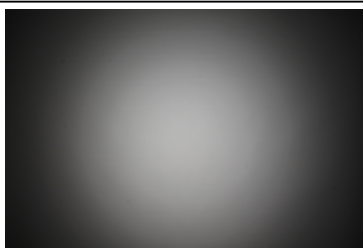
LEDs/each optic 1

Light colour White

Required components:

C12692_LENINA-STD-BASE-CLL040

C12606_LENINA-DL



SEOL SEMICONDUCTOR

LED ZC25/40/60

FWHM 42.0°

Efficiency 85 %

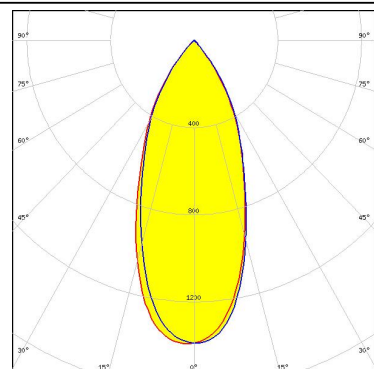
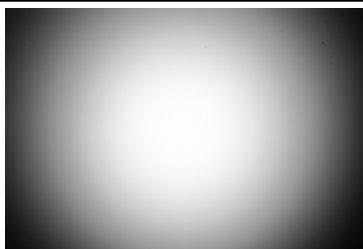
Peak intensity 1.4 cd/lm

LEDs/each optic 1

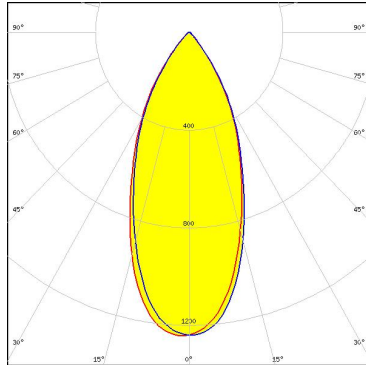
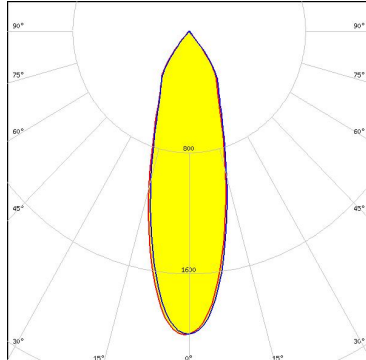
Light colour White

Required components:

C12692_LENINA-STD-BASE-CLL040



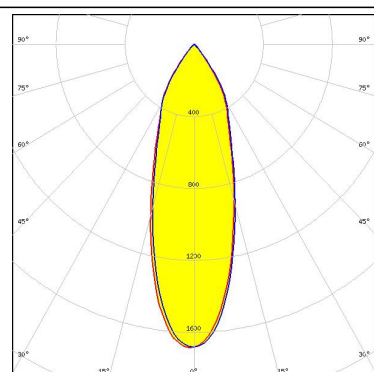
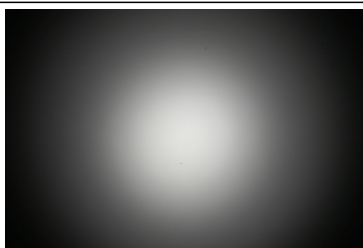
PHOTOMETRIC DATA (MEASURED):

SEOL SEOUL SEMICONDUCTOR LED ZC25/40/60 FWHM 44.0° Efficiency 81 % Peak intensity 1.2 cd/lm LEDs/each optic 1 Light colour White Required components: C12692_LENINA-STD-BASE-CLL040 C12606_LENINA-DL		
SHARP LED Mega Zenigata (GW5DGC) FWHM 22.0° Efficiency 78 % LEDs/each optic 1 Light colour White Required components: C12292_LENINA-STD-BASE-MEZ C12606_LENINA-DL		
SHARP LED Mega Zenigata (GW5DGC) FWHM 21.0° Efficiency 86 % LEDs/each optic 1 Light colour White Required components: C12292_LENINA-STD-BASE-MEZ		
SHARP LED Mega Zenigata (GW6DME) FWHM 30.0° Efficiency 87 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White Required components: C12292_LENINA-STD-BASE-MEZ		

PHOTOMETRIC DATA (MEASURED):

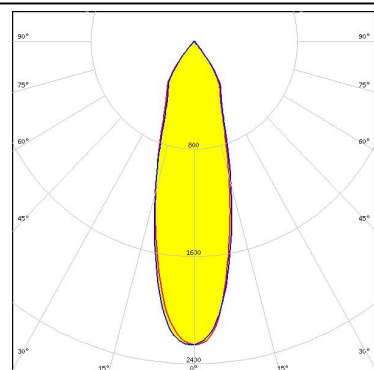
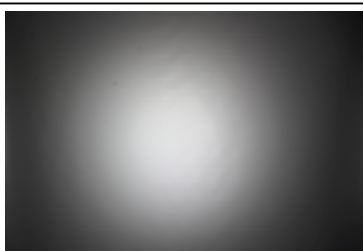
SHARP

LED Mega Zenigata (GW6DME)
FWHM 32.0°
Efficiency 82 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12292_LENINA-STD-BASE-MEZ
C12606_LENINA-DL



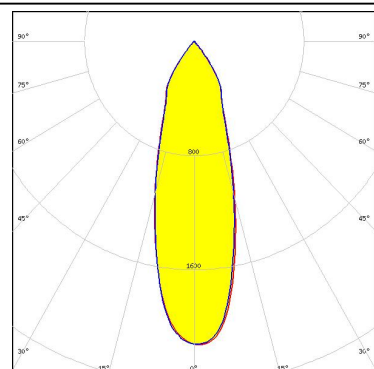
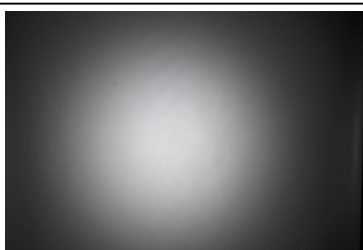
TRIDONIC

LED SLE G7 LES15
FWHM 30.0°
Efficiency 93 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12691_LENINA-STD-BASE-CLL030



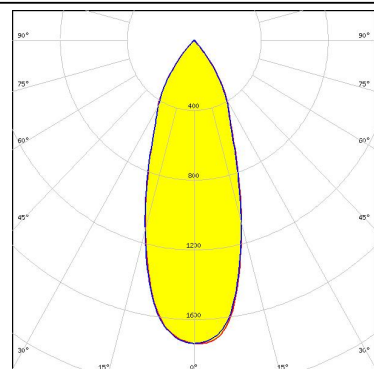
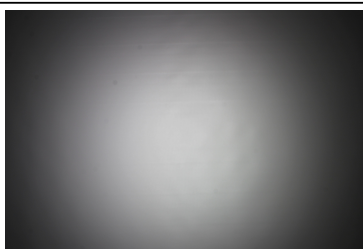
TRIDONIC

LED SLE G7 LES17 H
FWHM 31.0°
Efficiency 91 %
Peak intensity 2.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14547_LENINA-ADAPTER-B



TRIDONIC

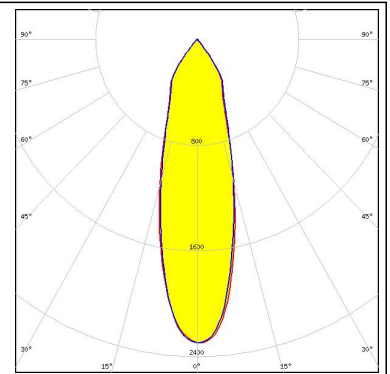
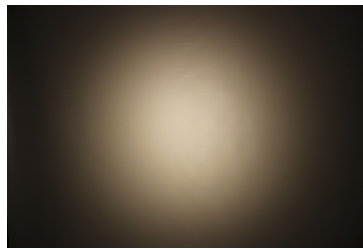
LED SLE G7 LES21 H
FWHM 37.0°
Efficiency 91 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14547_LENINA-ADAPTER-B



PHOTOMETRIC DATA (MEASURED):

XICATO

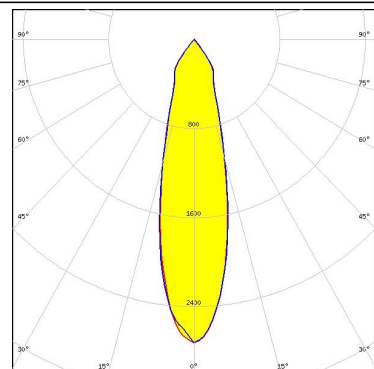
LED XOB 14.5 mm
FWHM 29.0°
Efficiency 93 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12691_LENINA-STD-BASE-CLL030



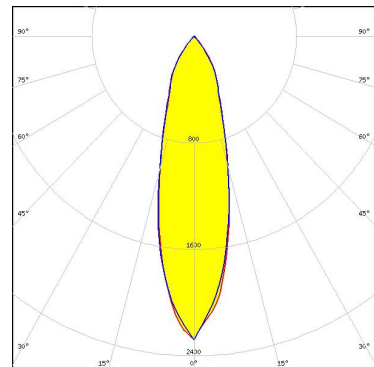
PHOTOMETRIC DATA (SIMULATED):



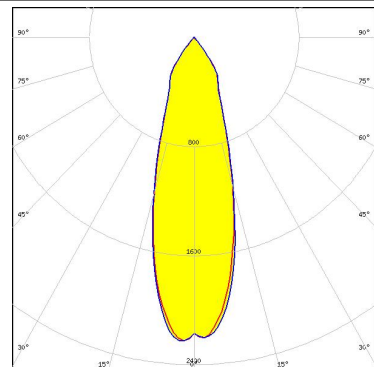
LED V10 Gen7
FWHM 26.0°
Efficiency 91 %
Peak intensity 2.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
 C13868_LENINA-STD-BASE-VERO13-18
 Bender Wirth: 486 Typ L1



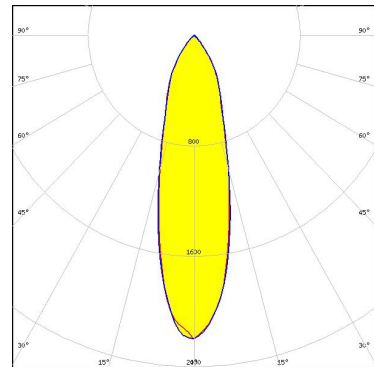
LED V10 Gen7
FWHM 28.0°
Efficiency 86 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
 C13868_LENINA-STD-BASE-VERO13-18
 C12606_LENINA-DL
 Bender Wirth: 486 Typ L1



LED V13 Gen7
FWHM 31.0°
Efficiency 90 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
 C13868_LENINA-STD-BASE-VERO13-18
 Bender Wirth: 477 Typ L1



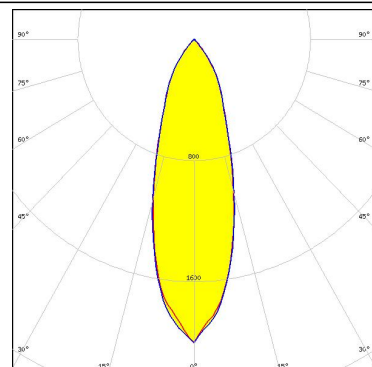
LED V13 Gen7
FWHM 26.0°
Efficiency 87 %
Peak intensity 2.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
 C12606_LENINA-DL
 IDEAL: 50-2103CT + 50-2100AN



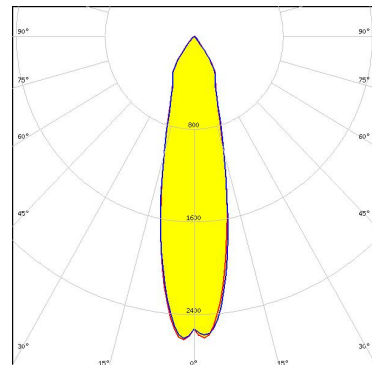
PHOTOMETRIC DATA (SIMULATED):



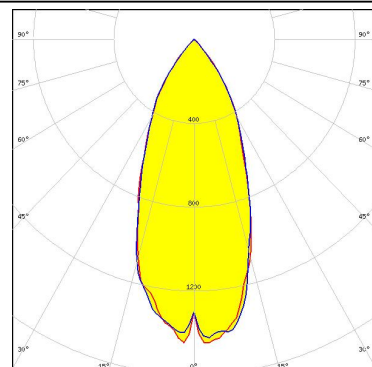
LED V13 Gen7
FWHM 32.0°
Efficiency 86 %
Peak intensity 2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 477 Typ L1



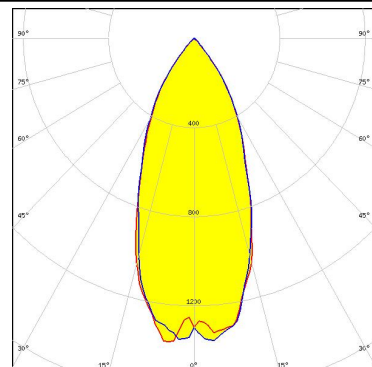
LED V13 Gen7
FWHM 26.0°
Efficiency 90 %
Peak intensity 2.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2103CT + 50-2100AN



LED V22 Gen7
FWHM 42.0°
Efficiency 90 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13867_LENINA-STD-BASE-VERO29
Bender Wirth: 431 Typ L3



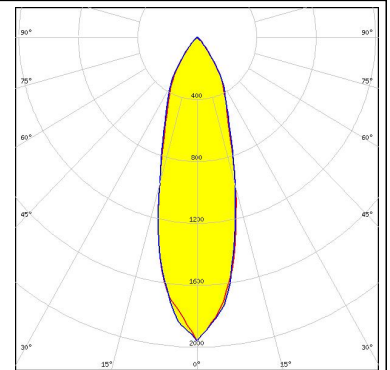
LED V22 Gen7
FWHM 42.0°
Efficiency 87 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13867_LENINA-STD-BASE-VERO29
C12606_LENINA-DL
Bender Wirth: 431 Typ L3



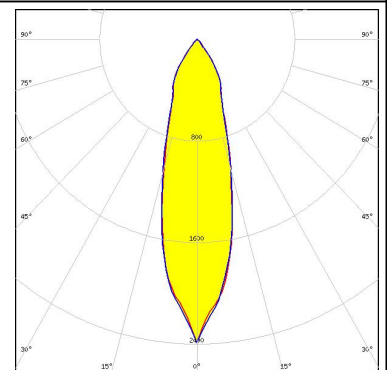
PHOTOMETRIC DATA (SIMULATED):



LED CXA/B 30xx
FWHM 30.0°
Efficiency 84 %
Peak intensity 2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12606_LENINA-DL
IDEAL: 50-2234C + 50-2100LN



LED CXA/B 30xx
FWHM 28.0°
Efficiency 89 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2234C + 50-2100LN



LED CxM-14 (19x19)
FWHM 31.0°
Efficiency 88 %
Peak intensity 2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 433 Typ L1



LED CxM-14 (19x19)
FWHM 29.0°
Efficiency 91 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
Bender Wirth: 433 Typ L1

PHOTOMETRIC DATA (SIMULATED):



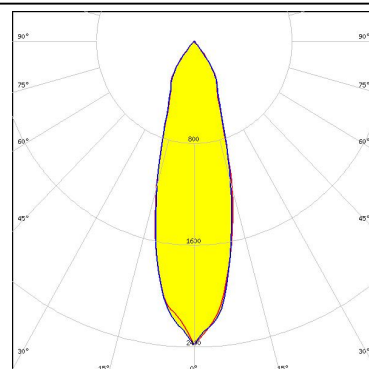
LED CxM-9 (13.5x13.5)
FWHM 23.0°
Efficiency 91 %
Peak intensity 3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
Bender Wirth: 434 Typ L1



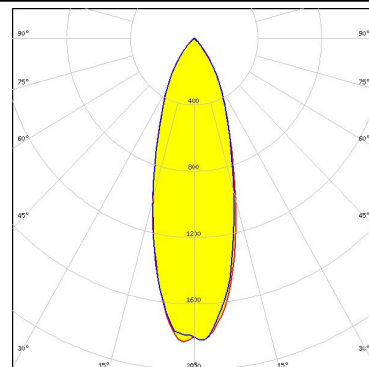
LED CxM-9 (13.5x13.5)
FWHM 26.0°
Efficiency 87 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 434 Typ L1



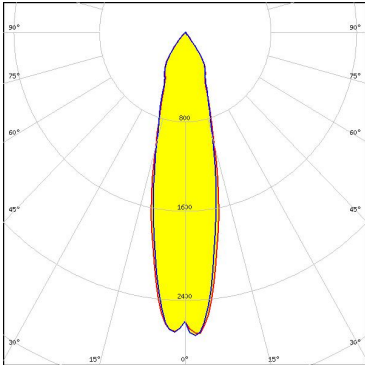
LED Soleriq S15
FWHM 30.0°
Efficiency 90 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12691_LENINA-STD-BASE-CLL030



LED ZC12/18
FWHM 32.0°
Efficiency 84 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12691_LENINA-STD-BASE-CLL030
C12606_LENINA-DL



PHOTOMETRIC DATA (SIMULATED):

 SEOUL SEMICONDUCTOR LED ZC12/18 FWHM 26.0° Efficiency 89 % Peak intensity 2.7 cd/lm LEDs/each optic 1 Light colour White Required components: C12691_LENINA-STD-BASE-CLL030	
 SEOUL SEMICONDUCTOR LED ZC12/18 FWHM 29.0° Efficiency 91 % Peak intensity 2.3 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 31.0° Efficiency 88 % Peak intensity 2 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	
 SEOUL SEMICONDUCTOR LED ZC4/6 FWHM 23.0° Efficiency 91 % Peak intensity 3 cd/lm LEDs/each optic 1 Light colour White Required components: C13868_LENINA-STD-BASE-VERO13-18 Bender Wirth: 434 Typ L1	

PHOTOMETRIC DATA (SIMULATED):

 SEOUL SEMICONDUCTOR	
LED	ZC4/6
FWHM	26.0°
Efficiency	87 %
Peak intensity	2.3 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:

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