

LENA-W

~45° wide beam

TECHNICAL SPECIFICATIONS:

Dimensions	Ø 111.0 mm
Height	80 mm
Fastening	socket
ROHS compliant	yes ⓘ

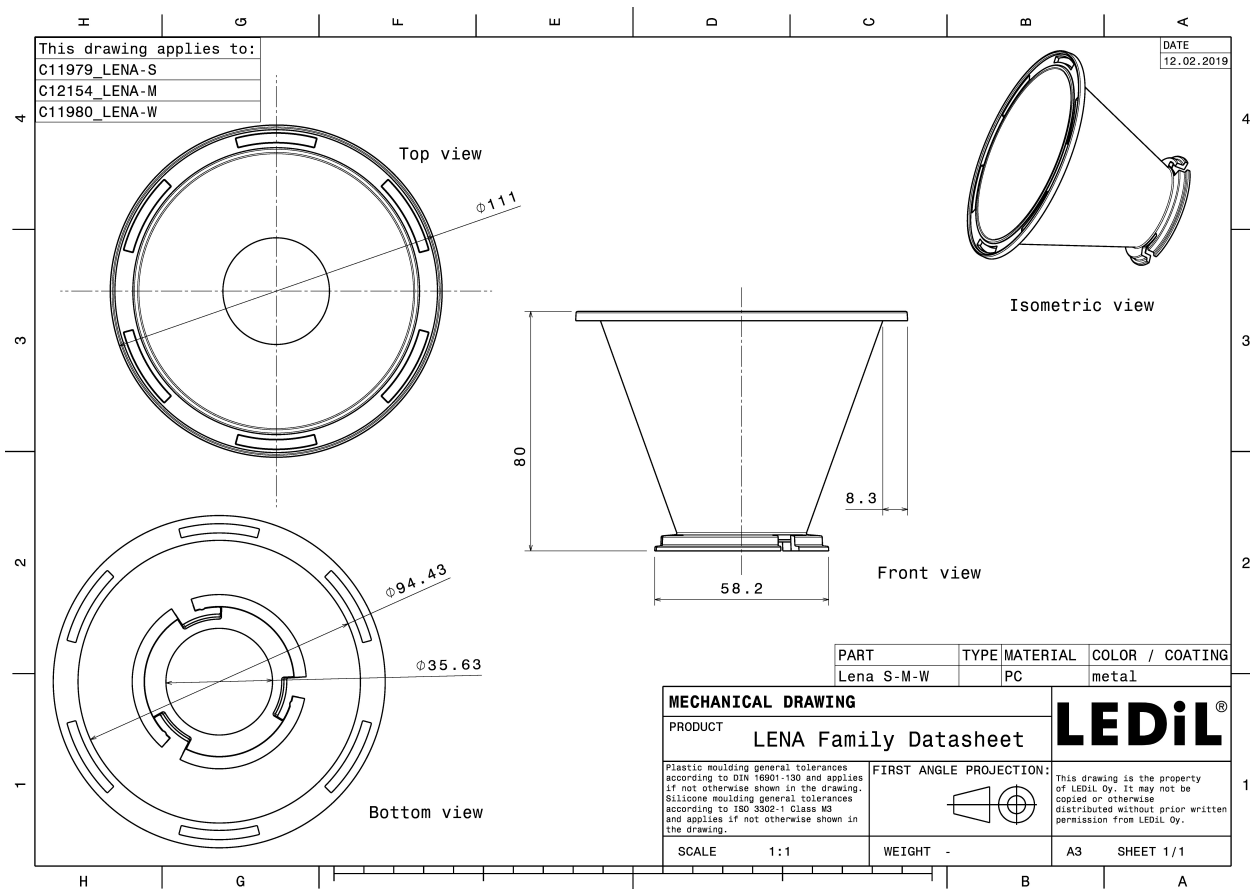
MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish	Coating
LENA-W	Reflector	PC	metal		lacquer

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C11980_LENA-W » Box size: 400 x 280 x 380 mm	60	60	60	4.0





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

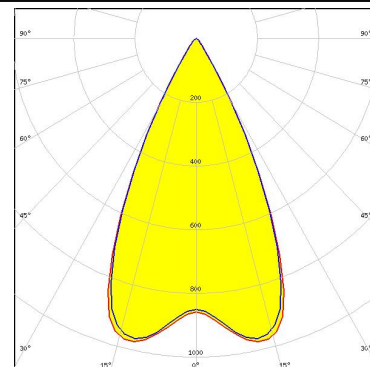
PHOTOMETRIC DATA (MEASURED):



LED BXRA ES Rectangle
 FWHM / FWTM 46.0° / 64.0°
 Efficiency 74 %
 LEDs/each optic 1
 Light colour White
 Required components:
 C12153_LENA-STD-BASE-BXRA
 C11996_LENA-LENS



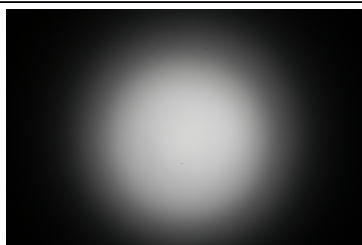
LED BXRA RS
 FWHM / FWTM 51.0°
 Efficiency 76 %
 LEDs/each optic 1
 Light colour White
 Required components:
 C12229_LENA-STD-BASE-RS
 C11996_LENA-LENS



LED BXRA RS
 FWHM / FWTM 51.0°
 Efficiency 81 %
 LEDs/each optic 1
 Light colour White
 Required components:
 C12229_LENA-STD-BASE-RS



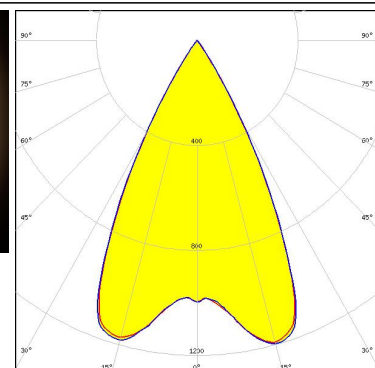
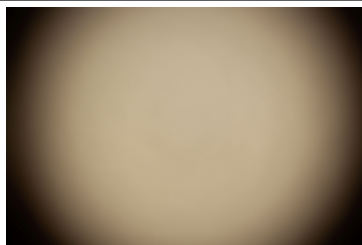
LED V10 Gen6
 FWHM / FWTM 39.0° / 64.0°
 Efficiency 74 %
 Peak intensity 1.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13186_LENA-STD-BASE-CXA15
 C11996_LENA-LENS



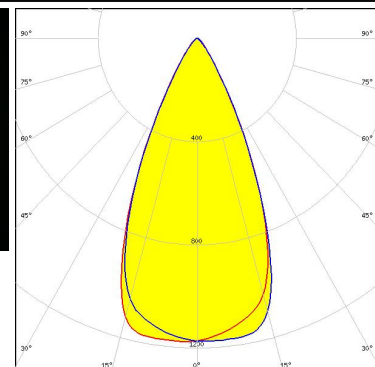
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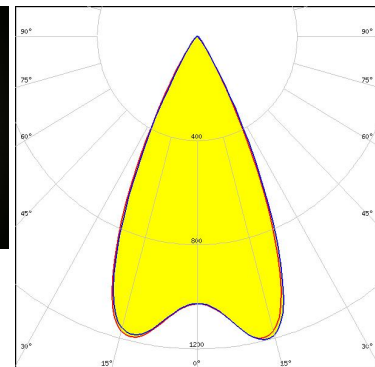
LED Vero SE 29
FWHM / FWTM 57.0° / 70.0°
Efficiency 86 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C15083_LENA-STD-BASE-VERO29



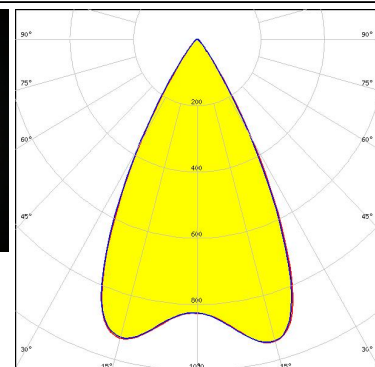
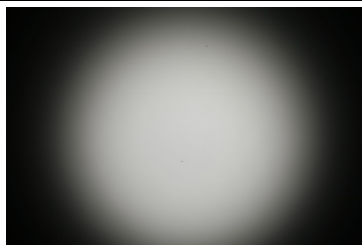
LED VERO13
FWHM / FWTM 48.0° / 71.0°
Efficiency 80 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENA-STD-BASE-VERO13-18
C11996_LENA-LENS



LED VERO18
FWHM / FWTM 52.0° / 69.0°
Efficiency 80 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENA-STD-BASE-VERO13-18
C11996_LENA-LENS



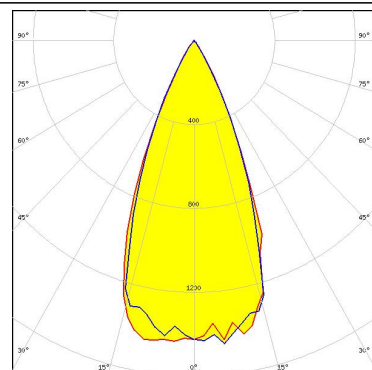
LED VERO29
FWHM / FWTM 57.0° / 75.0°
Efficiency 76 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13867_LENA-STD-BASE-VERO29
C11996_LENA-LENS



PHOTOMETRIC DATA (MEASURED):

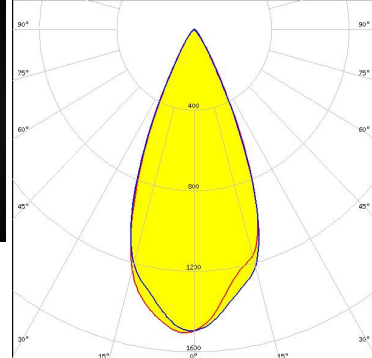
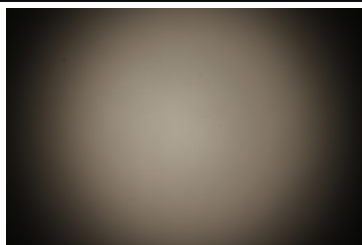
CITIZEN

LED CL-L340
FWHM / FWTM 45.0° / 63.0°
Efficiency 75 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C11995_LENA-STD-BASE-CL340
C11996_LENA-LENS



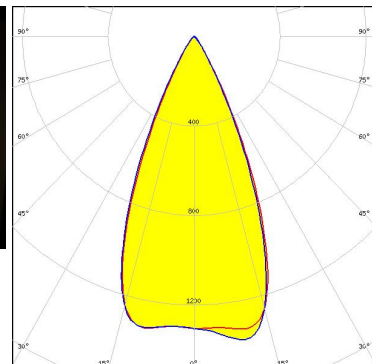
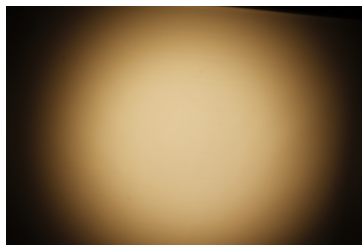
CITIZEN

LED CLL02x/CLU02x (LES10)
FWHM / FWTM 45.0° / 64.0°
Efficiency 81 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENA-STD-BASE-VERO13-18
C11996_LENA-LENS
Bender Wirth: 434 Typ L1



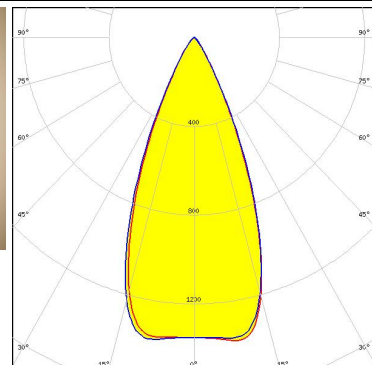
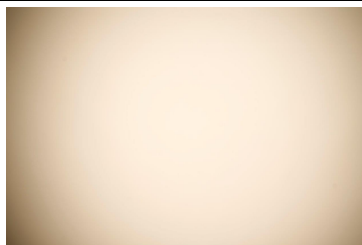
CITIZEN

LED CLL03x/CLU03x
FWHM / FWTM 47.0° / 65.0°
Efficiency 80 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12691_LENA-STD-BASE-CLL030
C11996_LENA-LENS



CITIZEN

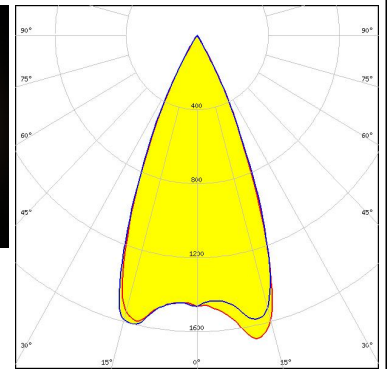
LED CLL03x/CLU03x
FWHM / FWTM 45.0° / 66.0°
Efficiency 79 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C11996_LENA-LENS
A.A.G. STUCCHI: 8101-G2 + S-8000-11



PHOTOMETRIC DATA (MEASURED):

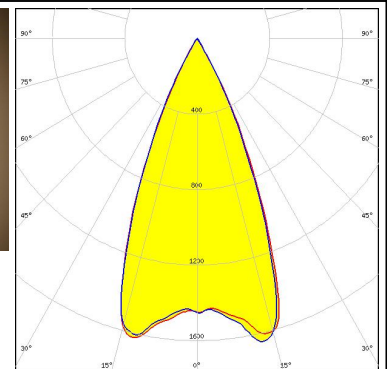
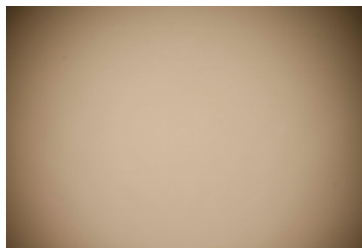
CITIZEN

LED CLL03x/CLU03x
FWHM / FWTM 47.0° / 61.0°
Efficiency 85 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12691_LENA-STD-BASE-CLL030



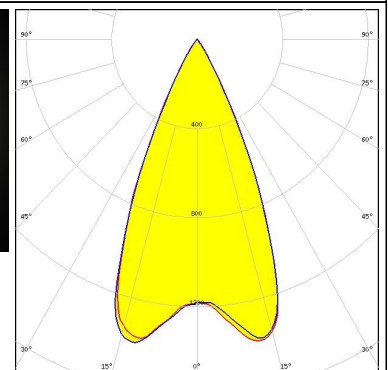
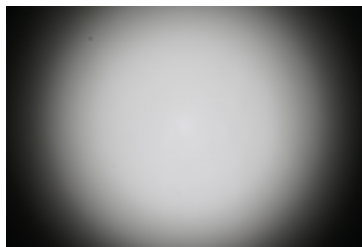
CITIZEN

LED CLL03x/CLU03x
FWHM / FWTM 47.0° / 67.0°
Efficiency 81 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENA-STD-BASE-VERO13-18
C11996_LENA-LENS
Bender Wirth: 433 Typ L1



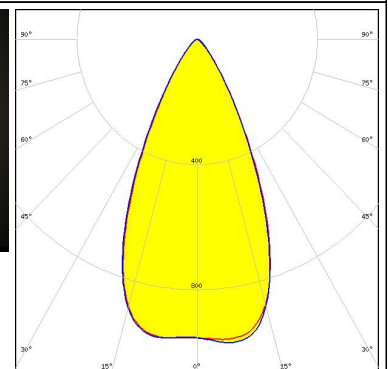
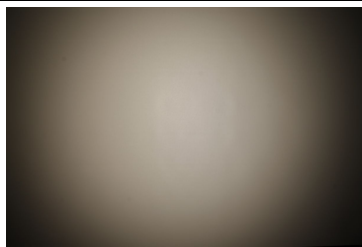
CITIZEN

LED CLL04x/CLU04x
FWHM / FWTM 50.0° / 65.0°
Efficiency 81 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2204CT + 50-2100LN



CITIZEN

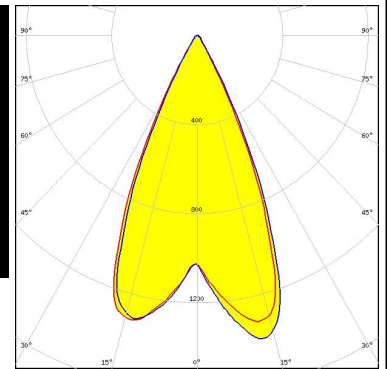
LED CLL04x/CLU04x
FWHM / FWTM 50.0° / 78.0°
Efficiency 73 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C11996_LENA-LENS
A.A.G. STUCCHI: 8102-G2 + S-8000-12



PHOTOMETRIC DATA (MEASURED):

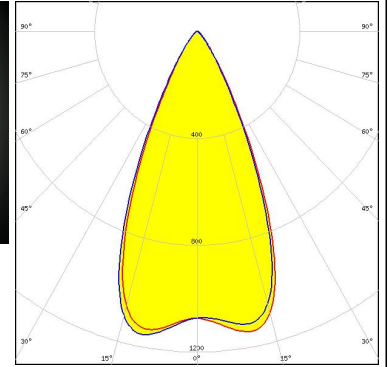
CITIZEN

LED CLL04x/CLU04x
FWHM / FWTM 52.0° / 66.0°
Efficiency 86 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12692_LENA-STD-BASE-CLL040



CITIZEN

LED CLL04x/CLU04x
FWHM / FWTM 49.0° / 72.0°
Efficiency 77 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C11996_LENA-LENS
IDEAL: 50-2204CT + 50-2100LN



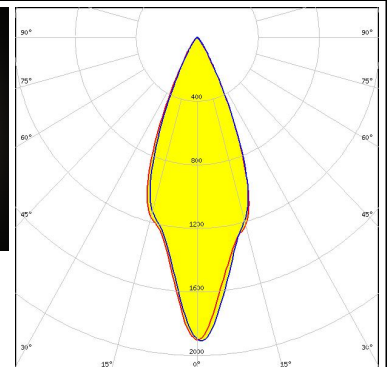
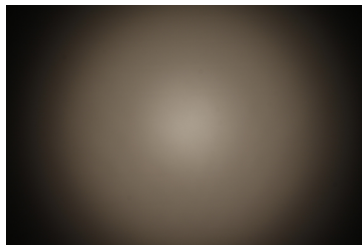
CITIZEN

LED CLL04x/CLU04x
FWHM / FWTM 46.0° / 64.0°
Efficiency 76 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12692_LENA-STD-BASE-CLL040
C11996_LENA-LENS



CITIZEN

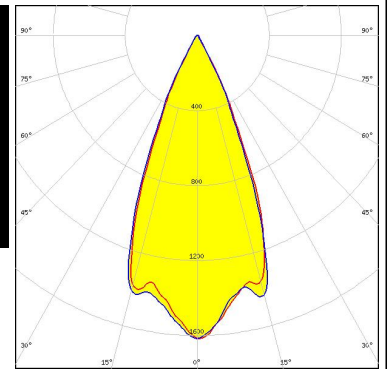
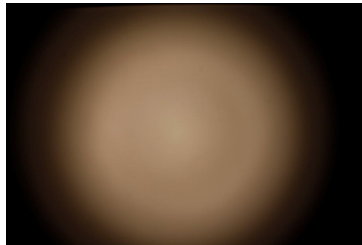
LED CLU700/701/702
FWHM / FWTM 39.0° / 61.0°
Efficiency 81 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENA-STD-BASE-VERO13-18
C11996_LENA-LENS
Bender Wirth: 434 Typ L1



PHOTOMETRIC DATA (MEASURED):

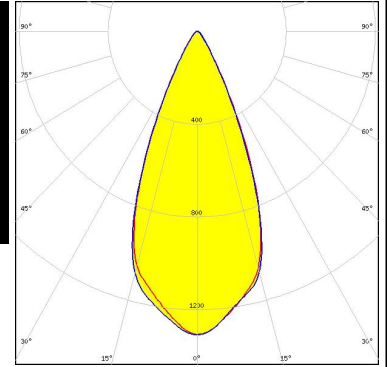
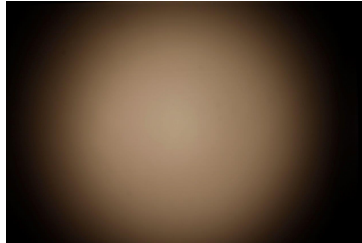
CITIZEN

LED CLU720/721
FWHM / FWTM 44.0° / 60.0°
Efficiency 81 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12691_LENA-STD-BASE-CLL030



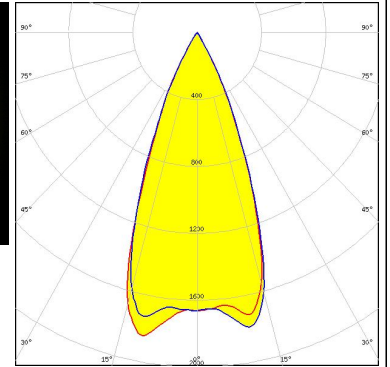
CITIZEN

LED CLU720/721
FWHM / FWTM 46.0° / 66.0°
Efficiency 76 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12691_LENA-STD-BASE-CLL030
C11996_LENA-LENS



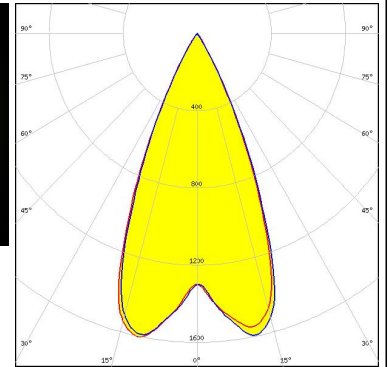
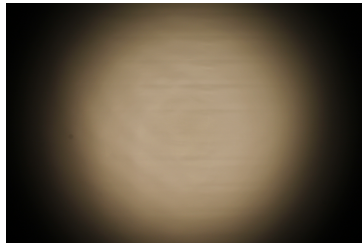
CREE LED

LED CMA1840
FWHM / FWTM 43.0° / 60.0°
Efficiency 86 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14146_LENA-STD-BASE-CXA18



CREE LED

LED CMA2550
FWHM / FWTM 49.0° / 63.0°
Efficiency 86 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13324_LENA-STD-BASE-CXA25



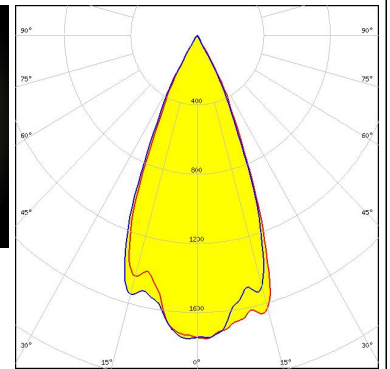
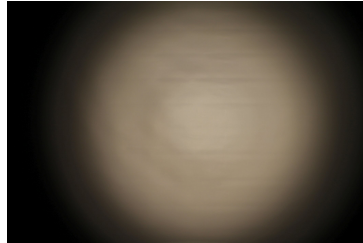
PHOTOMETRIC DATA (MEASURED):



LED CMT14xx
FWHM / FWTM 44.0° / 60.0°
Efficiency 85 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour White

Required components:

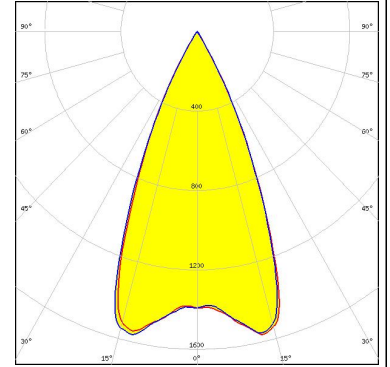
C13868_LENA-STD-BASE-VERO13-18
Bender Wirth: 434 Typ L1



LED CMT19xx
FWHM / FWTM 47.0° / 61.0°
Efficiency 86 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour White

Required components:

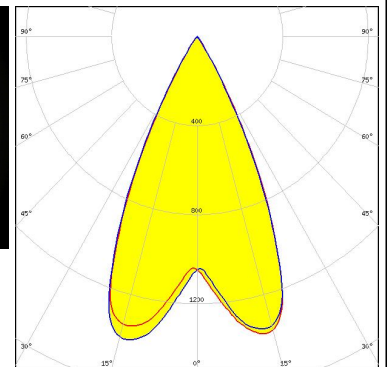
C13868_LENA-STD-BASE-VERO13-18
Bender Wirth: 477 Typ L1



LED CMT28xx
FWHM / FWTM 54.0° / 66.0°
Efficiency 85 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White

Required components:

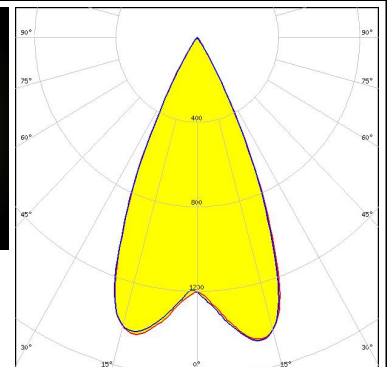
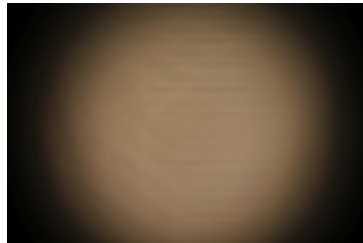
C13867_LENA-STD-BASE-VERO29
Bender Wirth: 471 Typ L3



LED CMT28xx
FWHM / FWTM 51.0° / 64.0°
Efficiency 86 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour White

Required components:

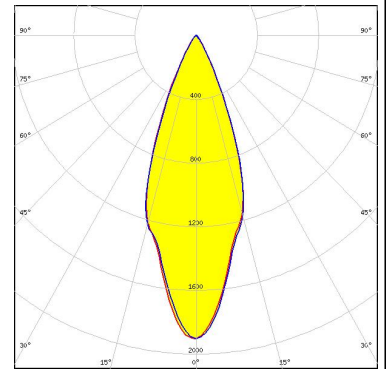
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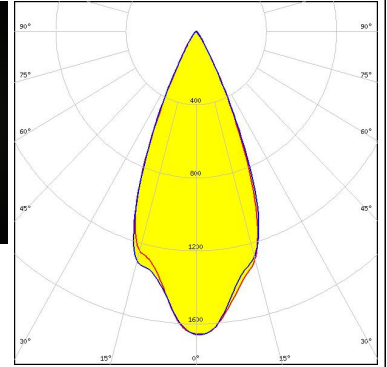
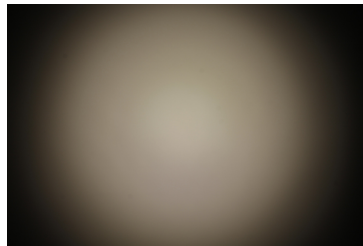
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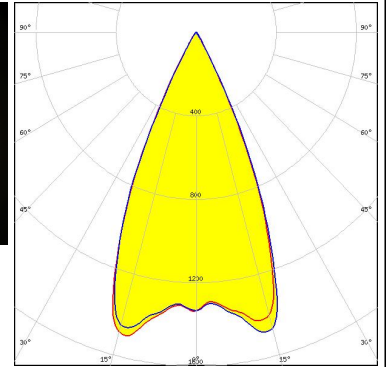
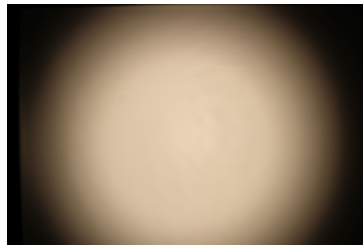
LED CXA/B 15xx
FWHM / FWTM 38.0° / 59.0°
Efficiency 77 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13186_LENA-STD-BASE-CXA15
C11996_LENA-LENS



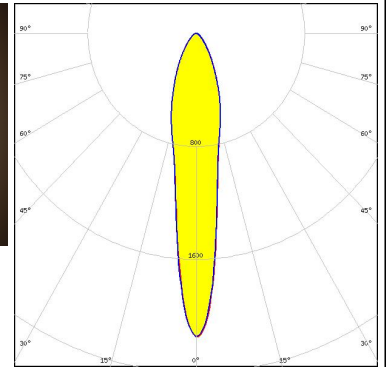
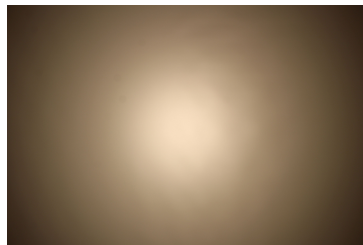
LED CXA/B 15xx
FWHM / FWTM 44.0° / 61.0°
Efficiency 81 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENA-STD-BASE-VERO13-18
C11996_LENA-LENS
Bender Wirth: 441 Typ L1



LED CXA/B 1830
FWHM / FWTM 49.0° / 60.0°
Efficiency 82 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENA-STD-BASE-VERO13-18
C14169_LENA-CLEAR-LENS
Bender Wirth: 437 Typ L1



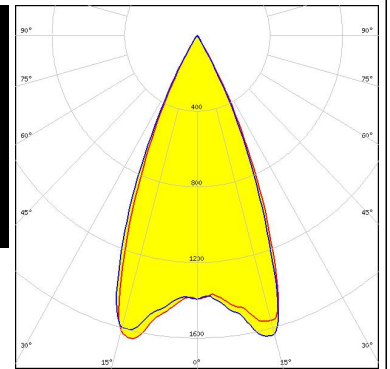
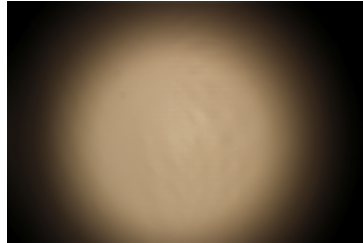
LED CXA/B 1830
FWHM / FWTM 17.0° / 64.0°
Efficiency 74 %
Peak intensity 2.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENA-STD-BASE-VERO13-18
C12231_LENA-FRESNEL
Bender Wirth: 437 Typ L1



PHOTOMETRIC DATA (MEASURED):

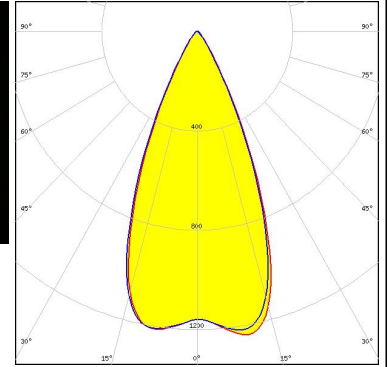
CREE LED

LED CXA/B 1830
FWHM / FWTM 48.0° / 61.0°
Efficiency 87 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENA-STD-BASE-VERO13-18
Bender Wirth: 437 Typ L1



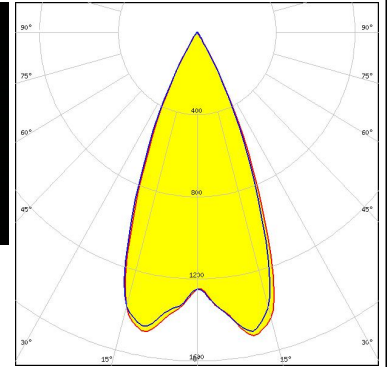
CREE LED

LED CXA/B 25xx
FWHM / FWTM 44.0° / 61.0°
Efficiency 76 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13324_LENA-STD-BASE-CXA25
C11996_LENA-LENS



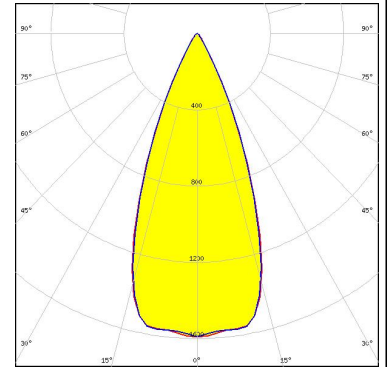
CREE LED

LED CXA/B 25xx
FWHM / FWTM 44.0° / 60.0°
Efficiency 81 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13324_LENA-STD-BASE-CXA25



CREE LED

LED CXA2011
FWHM / FWTM 42.0°
Efficiency 75 %
LEDs/each optic 1
Light colour White
Required components:
C12105_LENA-STD-BASE-CXA20
C11996_LENA-LENS



PHOTOMETRIC DATA (MEASURED):

EVERLIGHT

LED CHI3030 19W

FWHM / FWTM 50.0° / 70.0°

Efficiency 81 %

Peak intensity 1.2 cd/lm

LEDs/each optic 1

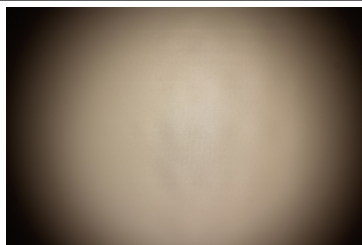
Light colour White

Required components:

C13867_LENA-STD-BASE-VERO29

C11996_LENA-LENS

Bender Wirth: 468 Typ L3



EVERLIGHT

LED CHI3030 29W

FWHM / FWTM 53.0° / 76.0°

Efficiency 78 %

Peak intensity 1 cd/lm

LEDs/each optic 1

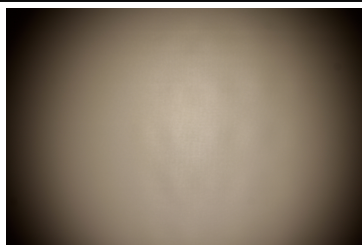
Light colour White

Required components:

C13867_LENA-STD-BASE-VERO29

C11996_LENA-LENS

Bender Wirth: 468 Typ L3



LUMILEDS

LED LUXEON CoB 1204/1205

FWHM / FWTM 44.0° / 66.0°

Efficiency 68 %

Peak intensity 1.2 cd/lm

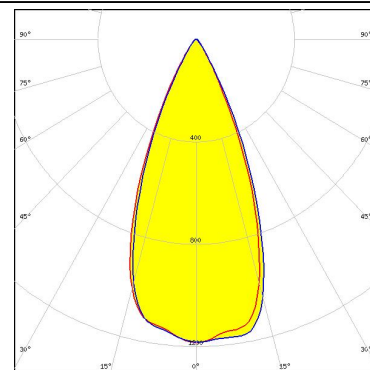
LEDs/each optic 1

Light colour White

Required components:

C12292_LENA-STD-BASE-MEZ

C11996_LENA-LENS



LUMILEDS

LED LUXEON CoB 1204HD

FWHM / FWTM 40.0° / 58.0°

Efficiency 86 %

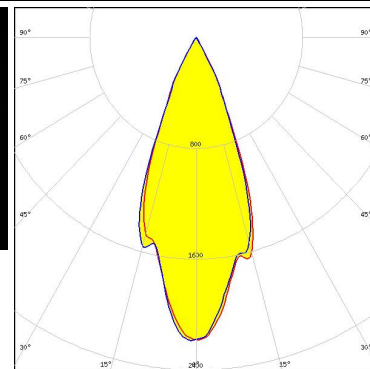
Peak intensity 2.2 cd/lm

LEDs/each optic 1

Light colour White

Required components:

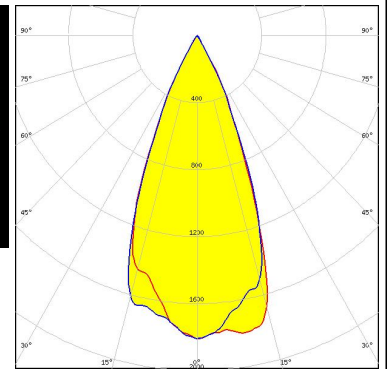
C11981_LENA-STD-BASE-COB-L110



PHOTOMETRIC DATA (MEASURED):

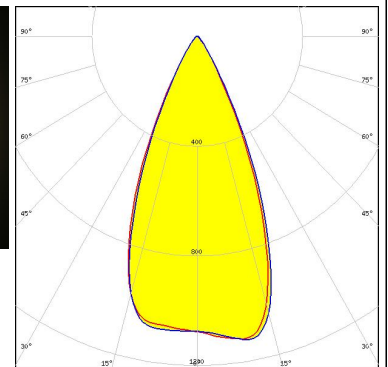
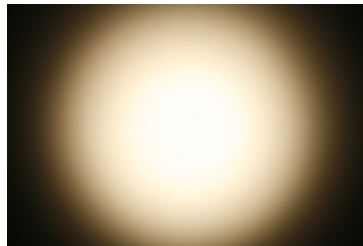
LUMILEDS

LED LUXEON CoB 1205HD
FWHM / FWTM 43.0° / 60.0°
Efficiency 85 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C11981_LENA-STD-BASE-COB-L110



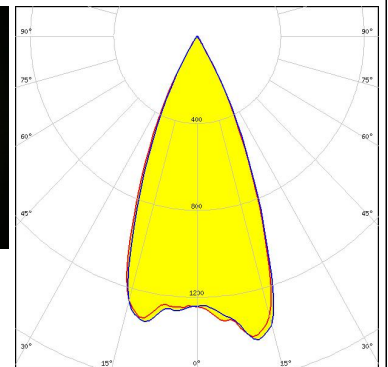
LUMILEDS

LED LUXEON CoB 1208
FWHM / FWTM 46.0° / 67.0°
Efficiency 68 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12292_LENA-STD-BASE-MEZ
C11996_LENA-LENS



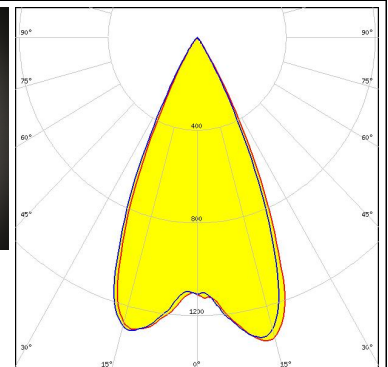
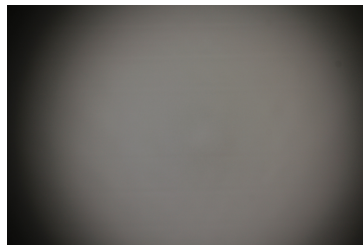
LUMILEDS

LED LUXEON CoB 1208
FWHM / FWTM 46.0° / 62.0°
Efficiency 73 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12292_LENA-STD-BASE-MEZ



LUMILEDS

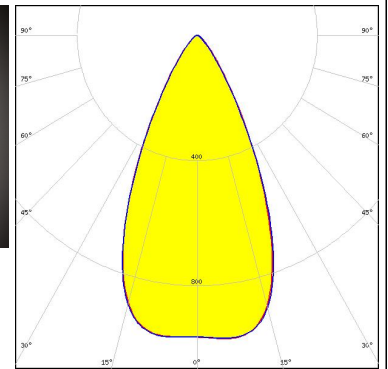
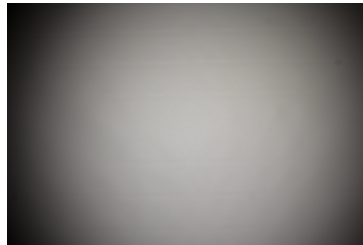
LED LUXEON CoB 1216/1812
FWHM / FWTM 51.0° / 65.0°
Efficiency 79 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
A.A.G. STUCCHI: 8102-G2 + S-8000-12



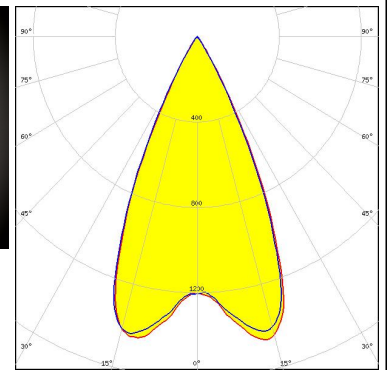
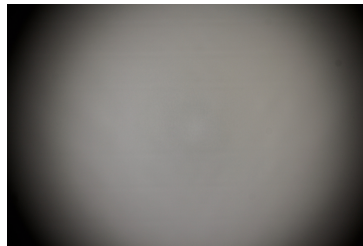
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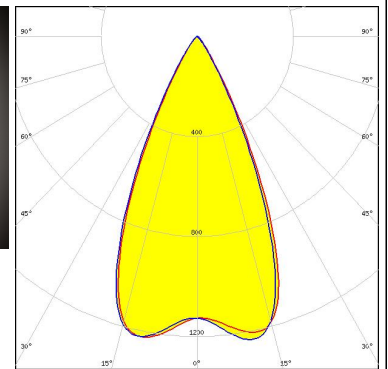
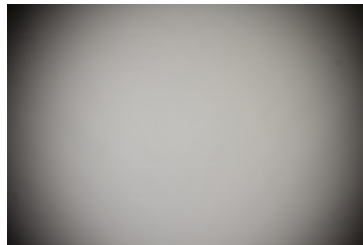
LED LUXEON CoB 1216/1812
FWHM / FWTM 50.0° / 79.0°
Efficiency 75 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C11996_LENA-LENS
A.A.G. STUCCHI: 8102-G2 + S-8000-12



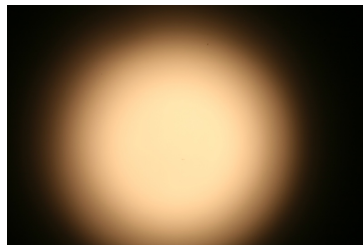
LED LUXEON CoB 1216/1812
FWHM / FWTM 51.0° / 64.0°
Efficiency 86 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12692_LENA-STD-BASE-CLL040



LED LUXEON CoB 1216/1812
FWHM / FWTM 50.0° / 69.0°
Efficiency 81 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12692_LENA-STD-BASE-CLL040
C11996_LENA-LENS



LED LUXEON K12
FWHM / FWTM 45.0° / 61.0°
Efficiency 74 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12924_LENA-STD-BASE-LUXEON-K
C11996_LENA-LENS



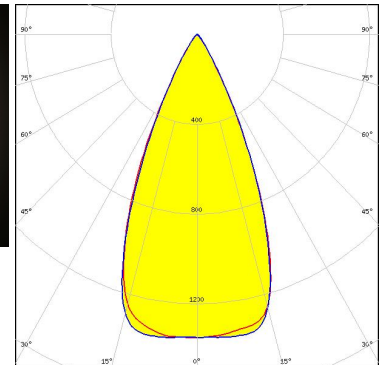
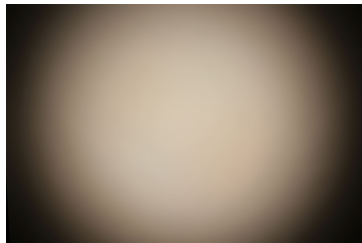
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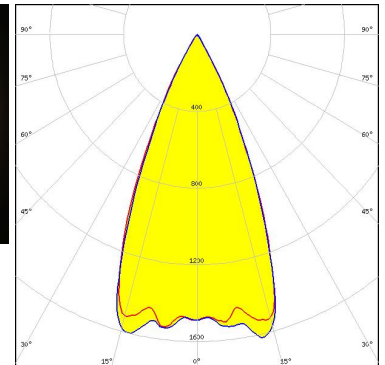
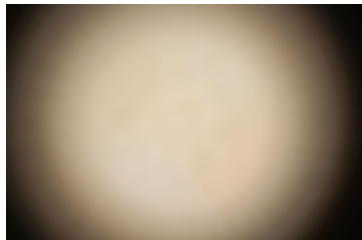
LED LUXEON K16
FWHM / FWTM 46.0° / 62.0°
Efficiency 72 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12924_LENA-STD-BASE-LUXEON-K
C11996_LENA-LENS



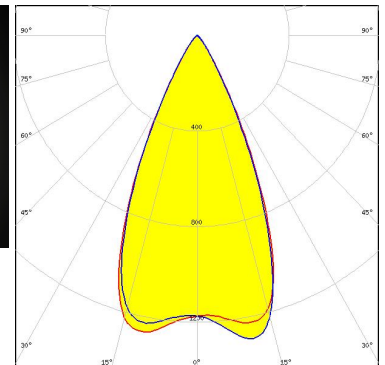
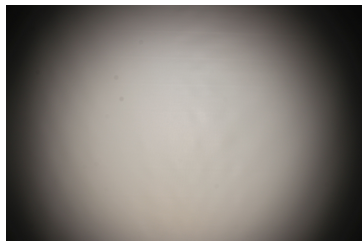
LED CDM-14 (Dim-To-Warm)
FWHM / FWTM 47.0° / 67.0°
Efficiency 82 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENA-STD-BASE-VERO13-18
C11996_LENA-LENS
Bender Wirth: 491 Typ L2



LED CDM-14 (Dim-To-Warm)
FWHM / FWTM 47.0° / 61.0°
Efficiency 87 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENA-STD-BASE-VERO13-18
Bender Wirth: 491 Typ L2



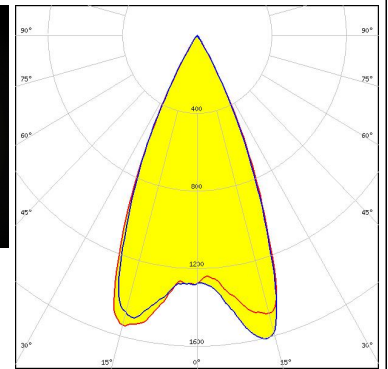
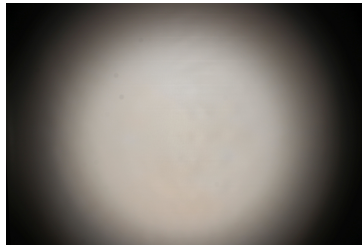
LED CDM-18 (Dim-To-Warm)
FWHM / FWTM 48.0° / 68.0°
Efficiency 82 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENA-STD-BASE-VERO13-18
C11996_LENA-LENS
Bender Wirth: 491 Typ L2



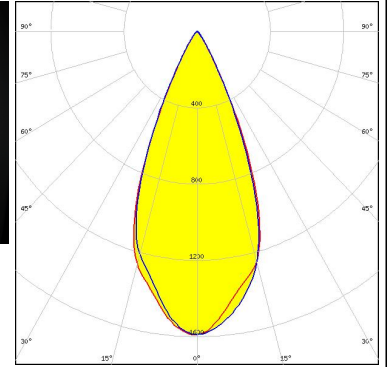
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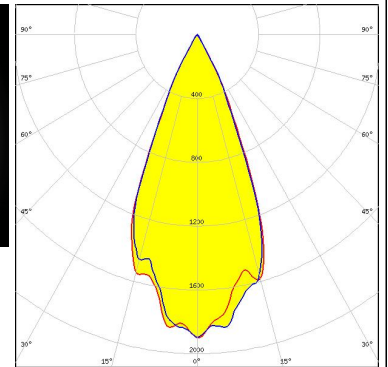
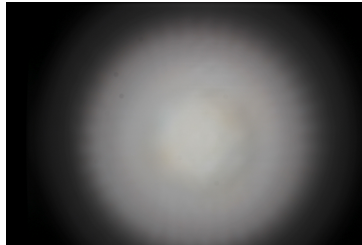
LED CDM-18 (Dim-To-Warm)
 FWHM / FWTM 50.0° / 63.0°
 Efficiency 87 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13868_LENA-STD-BASE-VERO13-18
 Bender Wirth: 491 Typ L2



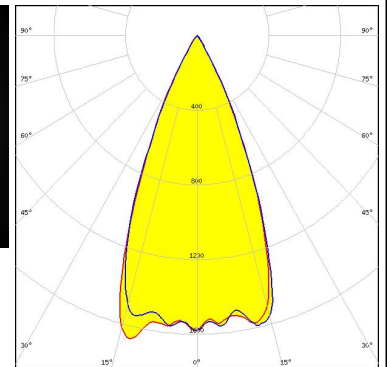
LED CDM-9 (Dim-To-Warm)
 FWHM / FWTM 44.0° / 63.0°
 Efficiency 82 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13868_LENA-STD-BASE-VERO13-18
 C11996_LENA-LENS
 Bender Wirth: 490 Typ L1



LED CDM-9 (Dim-To-Warm)
 FWHM / FWTM 44.0° / 59.0°
 Efficiency 87 %
 Peak intensity 1.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13868_LENA-STD-BASE-VERO13-18
 Bender Wirth: 490 Typ L1



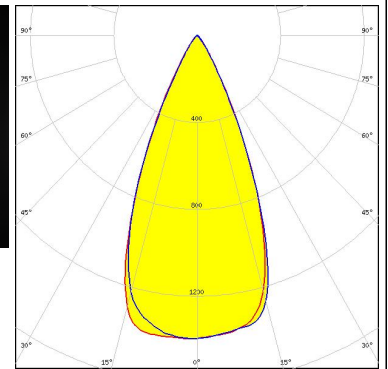
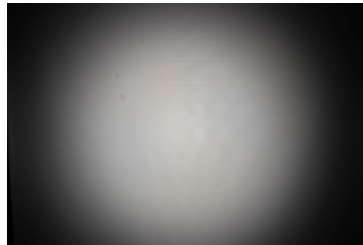
LED CTM-14 (Tunable White)
 FWHM / FWTM 45.0° / 61.0°
 Efficiency 86 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13867_LENA-STD-BASE-VERO29
 Bender Wirth: 442 Typ L3



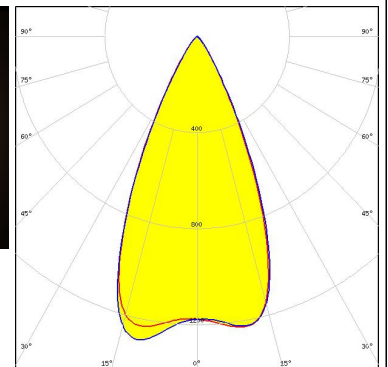
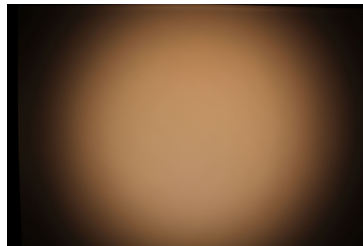
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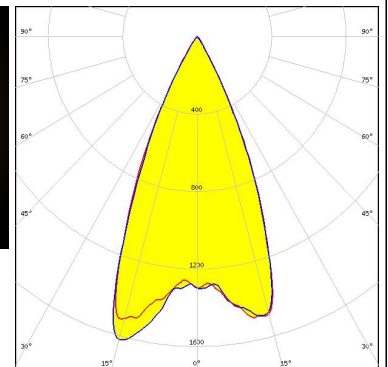
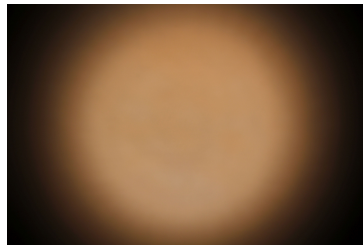
LED CTM-14 (Tunable White)
 FWHM / FWTM 46.0° / 65.0°
 Efficiency 81 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13867_LENA-STD-BASE-VERO29
 C12606_LENINA-DL
 Bender Wirth: 442 Typ L3



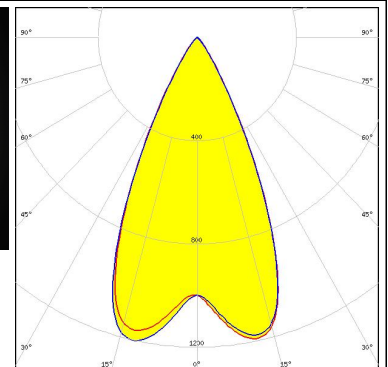
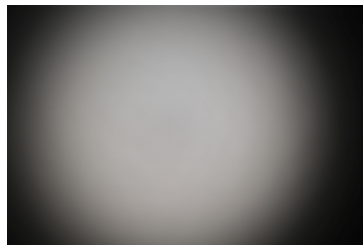
LED CTM-18 (Tunable White)
 FWHM / FWTM 49.0° / 69.0°
 Efficiency 81 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13867_LENA-STD-BASE-VERO29
 C11996_LENA-LENS
 Bender Wirth: 442 Typ L3



LED CTM-18 (Tunable White)
 FWHM / FWTM 49.0° / 63.0°
 Efficiency 87 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13867_LENA-STD-BASE-VERO29
 Bender Wirth: 442 Typ L3



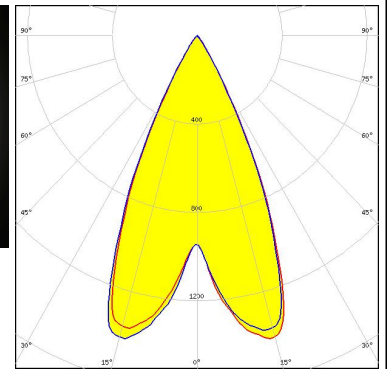
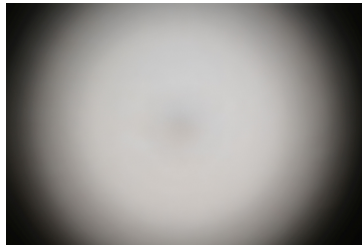
LED CTM-22 (Tunable White)
 FWHM / FWTM 53.0° / 72.0°
 Efficiency 81 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13867_LENA-STD-BASE-VERO29
 C11996_LENA-LENS
 Bender Wirth: 489 Typ L6



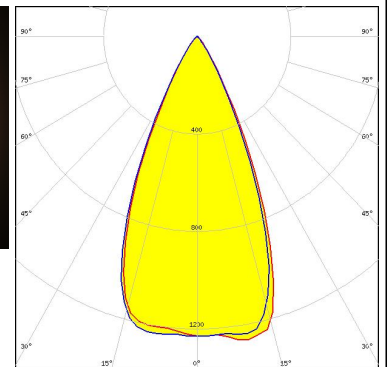
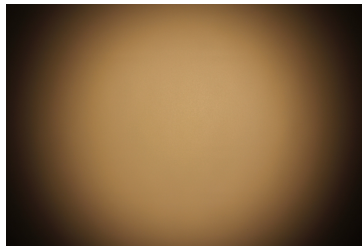
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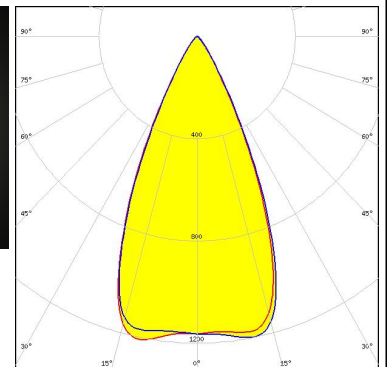
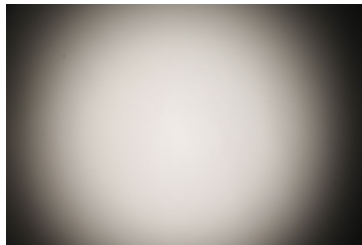
LED CTM-22 (Tunable White)
 FWHM / FWTM 55.0° / 68.0°
 Efficiency 86 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13867_LENA-STD-BASE-VERO29
 Bender Wirth: 494 Typ L3



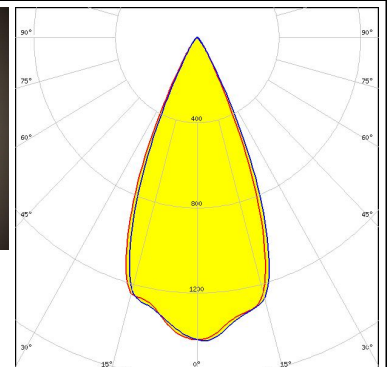
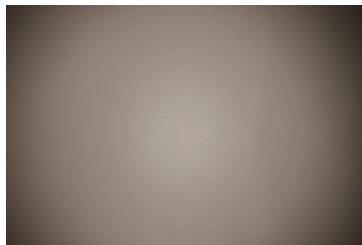
LED CxM-14 (19x19)
 FWHM / FWTM 48.0° / 68.0°
 Efficiency 78 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12691_LENA-STD-BASE-CLL030
 C11996_LENA-LENS



LED COB J-Type
 FWHM / FWTM 49.0° / 69.0°
 Efficiency 79 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13868_LENA-STD-BASE-VERO13-18
 C11996_LENA-LENS
 Bender Wirth: 463 Typ L2



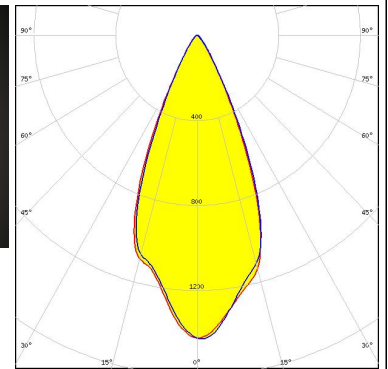
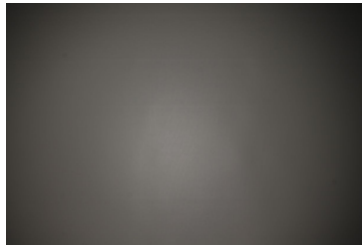
LED COB L-Type (LES 11)
 FWHM / FWTM 46.0° / 63.0°
 Efficiency 79 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13868_LENA-STD-BASE-VERO13-18
 C11996_LENA-LENS
 Bender Wirth: 438 Typ L1



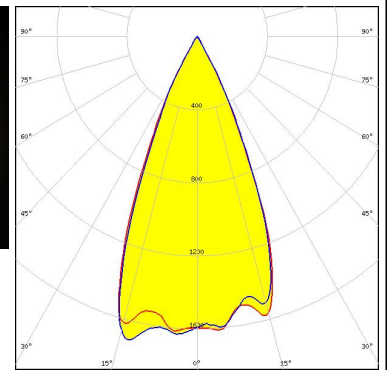
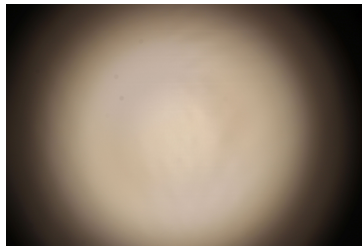
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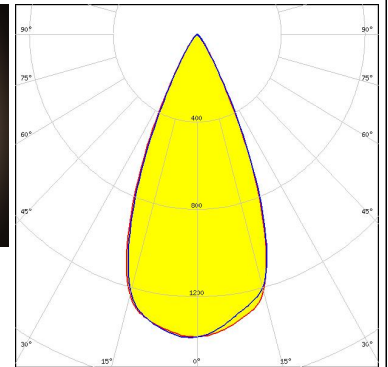
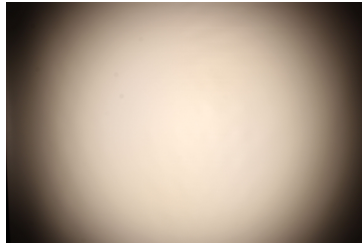
LED COB L-Type (LES 9)
 FWHM / FWTM 45.0° / 66.0°
 Efficiency 79 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13868_LENA-STD-BASE-VERO13-18
 C11996_LENA-LENS
 Bender Wirth: 438 Typ L1



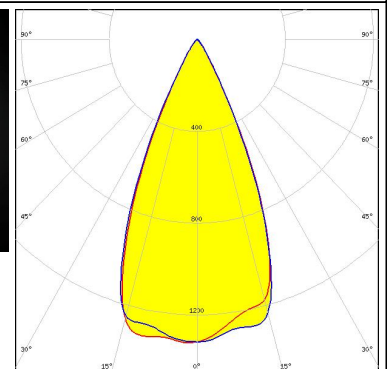
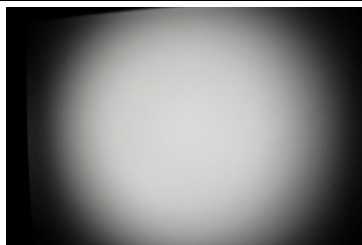
LED NVCWJ024Z-V1MT: COB J-Type Tunable White
 FWHM / FWTM 45.0° / 60.0°
 Efficiency 86 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13868_LENA-STD-BASE-VERO13-18
 Bender Wirth: 498 Typ L2



LED NVCWJ024Z-V1MT: COB J-Type Tunable White
 FWHM / FWTM 46.0° / 66.0°
 Efficiency 81 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13868_LENA-STD-BASE-VERO13-18
 C11996_LENA-LENS
 Bender Wirth: 498 Typ L2



LED Soleriq S13
 FWHM / FWTM 47.0° / 64.0°
 Efficiency 78 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13868_LENA-STD-BASE-VERO13-18
 C11996_LENA-LENS
 Bender Wirth: 437 Typ L1



PHOTOMETRIC DATA (MEASURED):

OSRAM

Opto Semiconductors

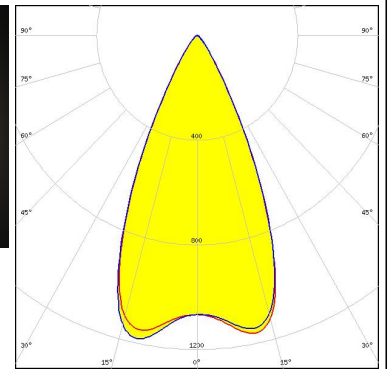
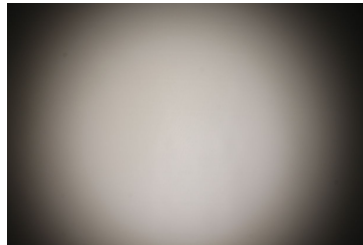
LED Soleriq S19
FWHM / FWTM 50.0° / 71.0°
Efficiency 78 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White

Required components:

C13867_LENA-STD-BASE-VERO29

C11996_LENA-LENS

Bender Wirth: 462 Typ L3



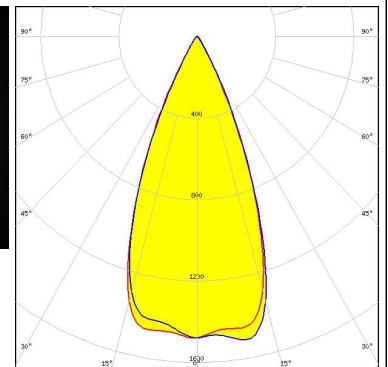
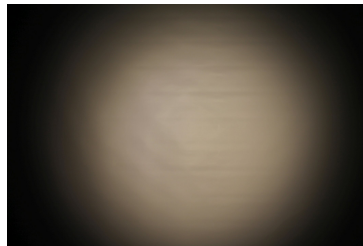
PHILIPS

LED Fortimo SLM L13 CoB
FWHM / FWTM 44.0° / 61.0°
Efficiency 79 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour White

Required components:

C12292_LENA-STD-BASE-MEZ

C11996_LENA-LENS

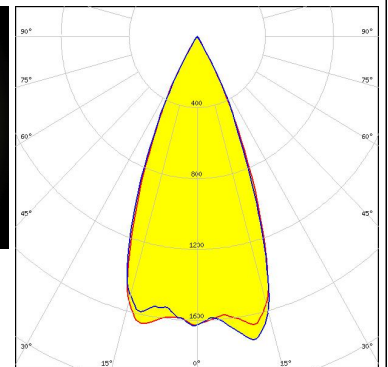


PHILIPS

LED Fortimo SLM L13 CoB
FWHM / FWTM 44.0° / 60.0°
Efficiency 85 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour White

Required components:

C12292_LENA-STD-BASE-MEZ



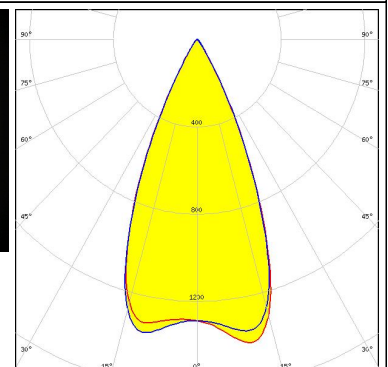
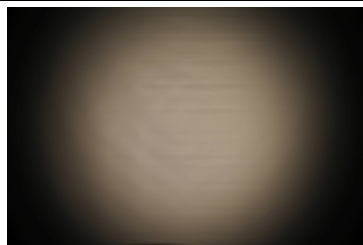
PHILIPS

LED Fortimo SLM L15 CoB
FWHM / FWTM 46.0° / 63.0°
Efficiency 79 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White

Required components:

C12292_LENA-STD-BASE-MEZ

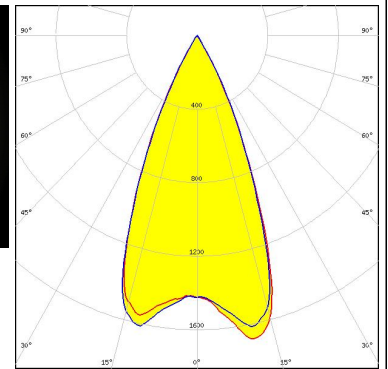
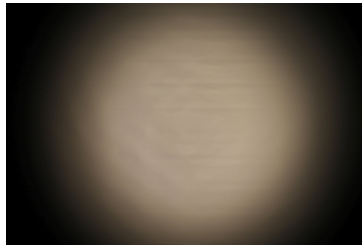
C11996_LENA-LENS



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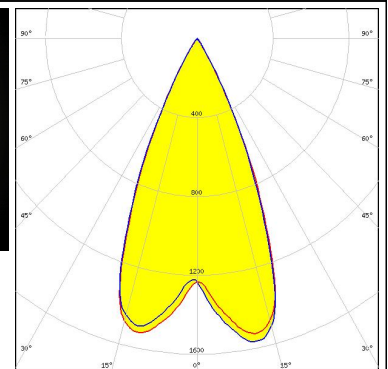
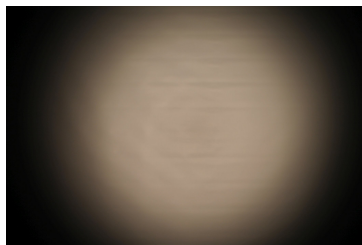
PHILIPS

LED Fortimo SLM L15 CoB
FWHM / FWTM 47.0° / 61.0°
Efficiency 85 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12292_LENA-STD-BASE-MEZ



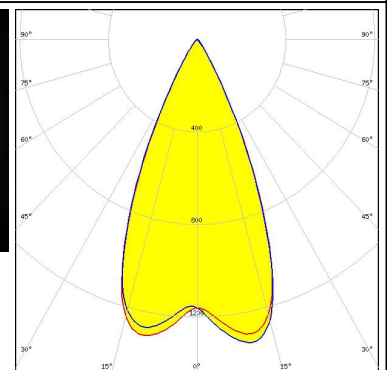
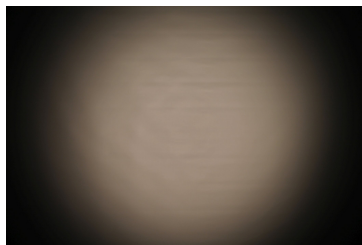
PHILIPS

LED Fortimo SLM L19 CoB
FWHM / FWTM 50.0° / 63.0°
Efficiency 85 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12692_LENA-STD-BASE-CLL040



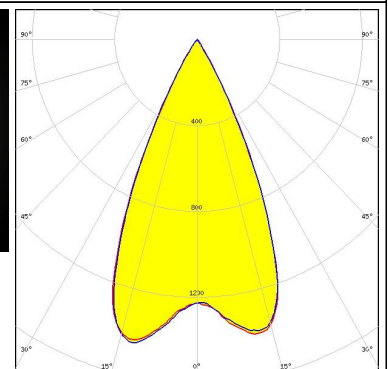
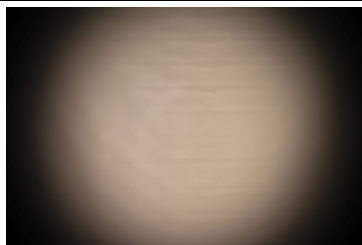
PHILIPS

LED Fortimo SLM L19 CoB
FWHM / FWTM 48.0° / 65.0°
Efficiency 79 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12692_LENA-STD-BASE-CLL040
C11996_LENA-LENS



PHILIPS

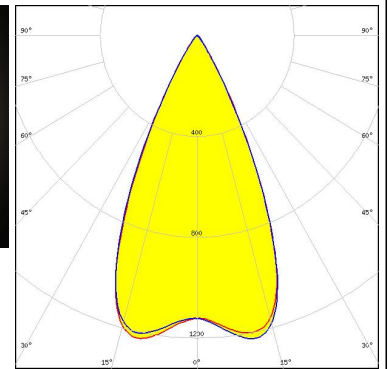
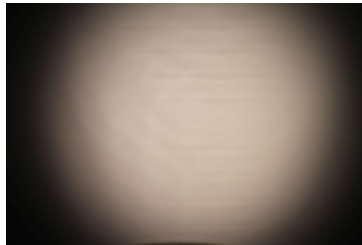
LED Fortimo SLM L23 CoB
FWHM / FWTM 51.0° / 64.0°
Efficiency 85 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12692_LENA-STD-BASE-CLL040



PHOTOMETRIC DATA (MEASURED):

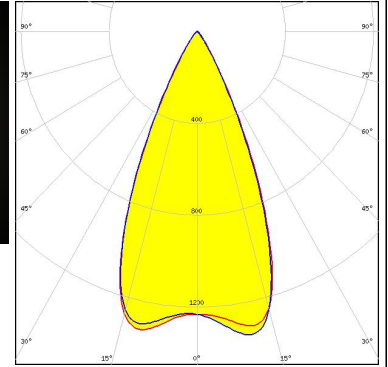
PHILIPS

LED Fortimo SLM L23 CoB
 FWHM / FWTM 50.0° / 67.0°
 Efficiency 79 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12692_LENA-STD-BASE-CLL040
 C11996_LENA-LENS



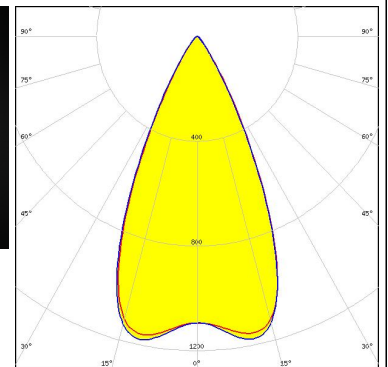
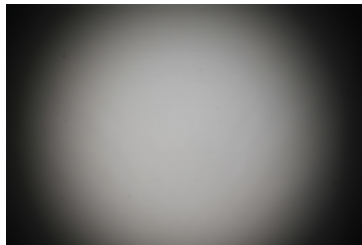
SAMSUNG

LED LC016D / LC019D / LC026D / LC033D
 FWHM / FWTM 49.0° / 66.0°
 Efficiency 81 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12691_LENA-STD-BASE-CLL030
 C11996_LENA-LENS



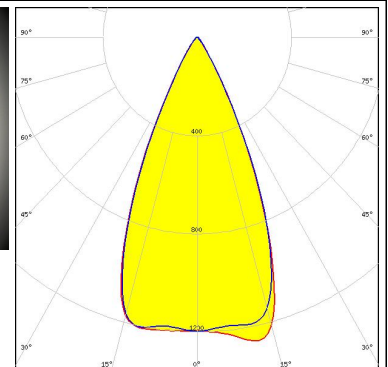
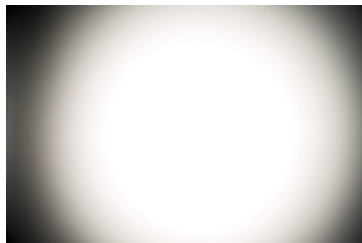
SAMSUNG

LED LC040D / LC060D / LC080D
 FWHM / FWTM 51.0° / 71.0°
 Efficiency 81 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12692_LENA-STD-BASE-CLL040
 C11996_LENA-LENS



SEOUL SEMICONDUCTOR

LED ZC12/18
 FWHM / FWTM 48.0° / 66.0°
 Efficiency 77 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12691_LENA-STD-BASE-CLL030
 C11996_LENA-LENS



PHOTOMETRIC DATA (MEASURED):

SHARP

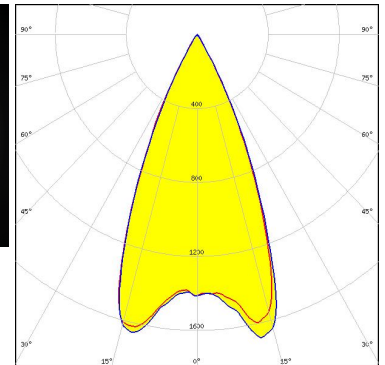
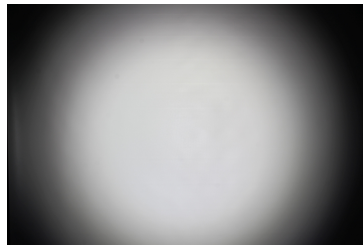
LED Mega Zenigata (GW5DGC)
 FWHM / FWTM 44.0° / 64.0°
 Efficiency 75 %
 LEDs/each optic 1
 Light colour White
 Required components:
 C12292_LENA-STD-BASE-MEZ
 C11996_LENA-LENS

SHARP

LED Mega Zenigata (GW5DGC)
 FWHM / FWTM 44.0° / 60.0°
 Efficiency 80 %
 LEDs/each optic 1
 Light colour White
 Required components:
 C12292_LENA-STD-BASE-MEZ

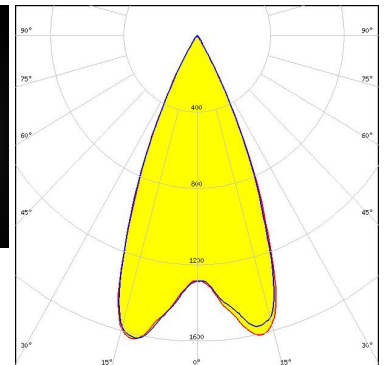
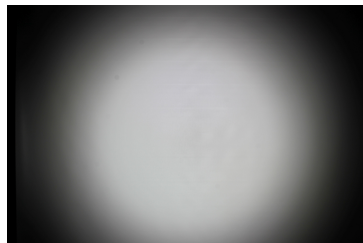
TRIDONIC

LED SLE G7 LES15
 FWHM / FWTM 48.0° / 62.0°
 Efficiency 88 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12691_LENA-STD-BASE-CLL030



TRIDONIC

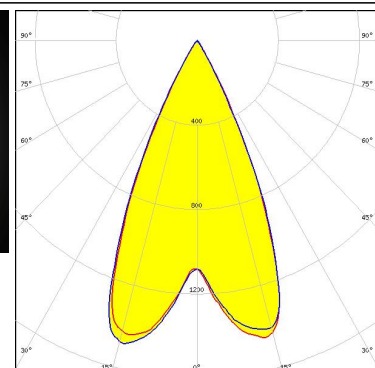
LED SLE G7 LES17 H
 FWHM / FWTM 49.0° / 62.0°
 Efficiency 86 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C14547_LENA-ADAPTER-B



PHOTOMETRIC DATA (MEASURED):

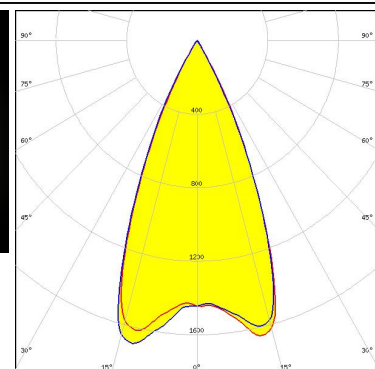
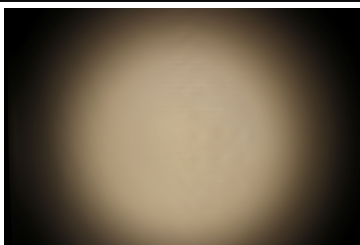
TRIDONIC

LED SLE G7 LES21 H
FWHM / FWTM 52.0° / 64.0°
Efficiency 86 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14547_LENA-ADAPTER-B



XICATO

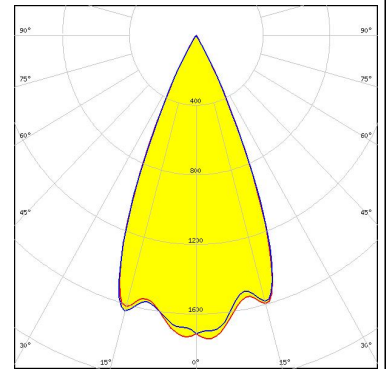
LED XOB 14.5 mm
FWHM / FWTM 46.0° / 60.0°
Efficiency 89 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12691_LENA-STD-BASE-CLL030



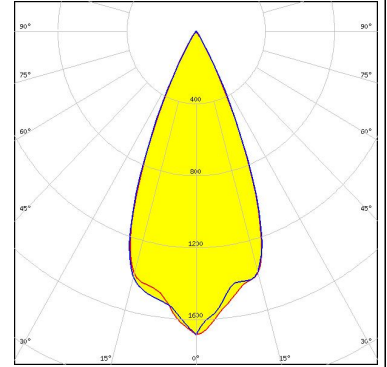
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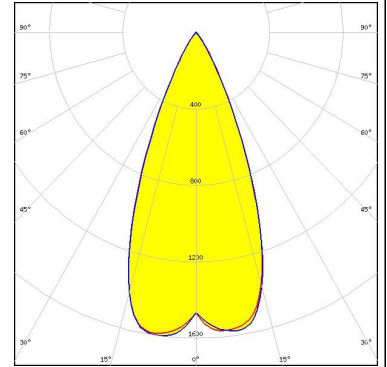
LED V10 Gen7
FWHM / FWTM 46.0° / 59.0°
Efficiency 88 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENA-STD-BASE-VERO13-18
Bender Wirth: 486 Typ L1



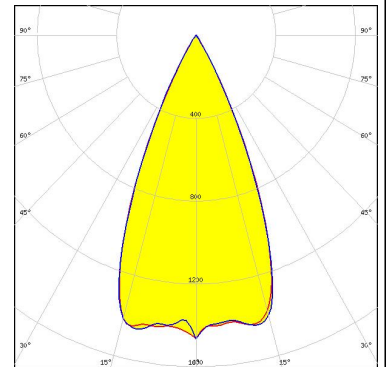
LED V10 Gen7
FWHM / FWTM 44.0° / 60.0°
Efficiency 81 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENA-STD-BASE-VERO13-18
C11996_LENA-LENS
Bender Wirth: 486 Typ L1



LED V13 Gen7
FWHM / FWTM 42.0° / 64.0°
Efficiency 85 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C11996_LENA-LENS
IDEAL: 50-2103CT + 50-2100LN



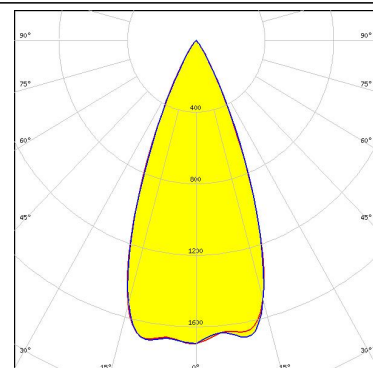
LED V13 Gen7
FWHM / FWTM 47.0° / 63.0°
Efficiency 82 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENA-STD-BASE-VERO13-18
C11996_LENA-LENS
Bender Wirth: 477 Typ L1



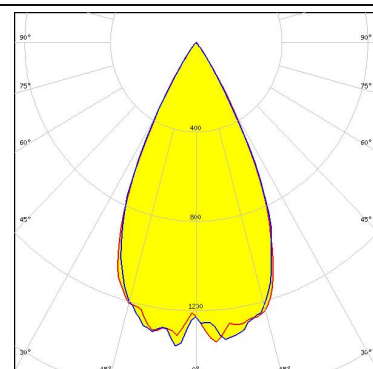
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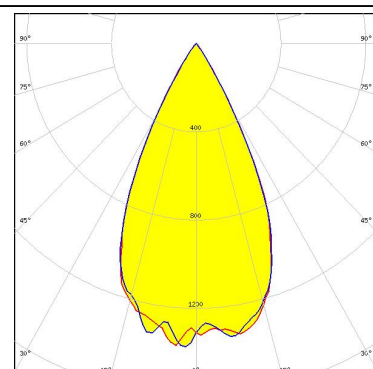
LED V13 Gen7
FWHM / FWTM 44.0° / 62.0°
Efficiency 87 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2103CT + 50-2100LN



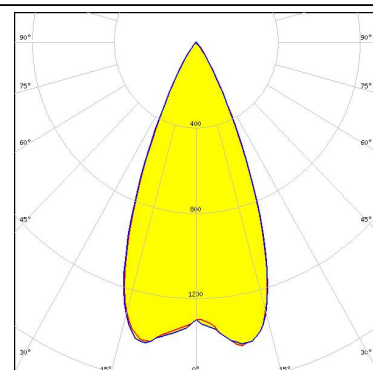
LED V22 Gen7
FWHM / FWTM 51.0° / 67.0°
Efficiency 87 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13867_LENA-STD-BASE-VERO29
C11996_LENA-LENS
Bender Wirth: 431 Typ L3



LED V22 Gen7
FWHM / FWTM 51.0° / 67.0°
Efficiency 87 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13867_LENA-STD-BASE-VERO29
Bender Wirth: 431 Typ L3



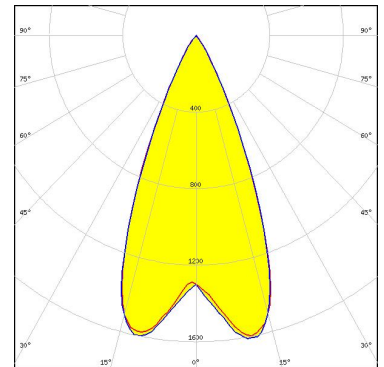
LED CXA/B 30xx
FWHM / FWTM 43.0° / 64.0°
Efficiency 81 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C11996_LENA-LENS
IDEAL: 50-2234C + 50-2100LN



PHOTOMETRIC DATA (SIMULATED):



LED CxA/B 30xx
FWHM / FWTM 42.0° / 62.0°
Efficiency 86 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2234C + 50-2100LN



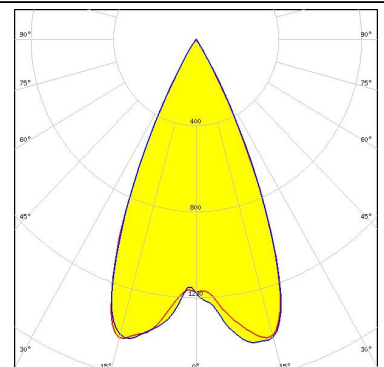
LED CxM-14 (19x19)
FWHM / FWTM 47.0° / 67.0°
Efficiency 81 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENA-STD-BASE-VERO13-18
C11996_LENA-LENS
Bender Wirth: 433 Typ L1



LED CxM-14 (19x19)
FWHM / FWTM 47.0° / 61.0°
Efficiency 86 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13868_LENA-STD-BASE-VERO13-18
Bender Wirth: 433 Typ L1



LED CxM-22 (28x28)
FWHM / FWTM 48.0° / 62.0°
Efficiency 83 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12692_LENA-STD-BASE-CLL040



PHOTOMETRIC DATA (SIMULATED):



LED CxM-9 (13.5x13.5)
 FWHM / FWTM 44.0° / 59.0°
 Efficiency 86 %
 Peak intensity 1.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13868_LENA-STD-BASE-VERO13-18
 Bender Wirth: 434 Typ L1

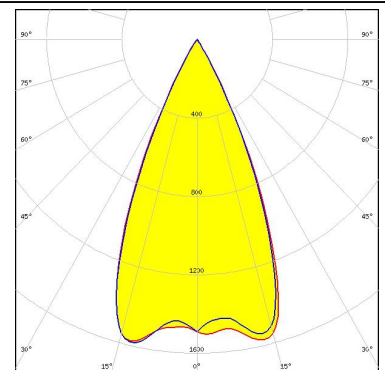


LED CxM-9 (13.5x13.5)
 FWHM / FWTM 45.0° / 64.0°
 Efficiency 81 %
 Peak intensity 1.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13868_LENA-STD-BASE-VERO13-18
 C11996_LENA-LENS
 Bender Wirth: 434 Typ L1



Opto Semiconductors

LED Soleriq S15
 FWHM / FWTM 48.0° / 61.0°
 Efficiency 88 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12691_LENA-STD-BASE-CLL030



SEOUL SEMICONDUCTOR

LED ZC12/18
 FWHM / FWTM 47.0° / 67.0°
 Efficiency 81 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13868_LENA-STD-BASE-VERO13-18
 C11996_LENA-LENS
 Bender Wirth: 433 Typ L1

PHOTOMETRIC DATA (SIMULATED):

 SEOUL SEMICONDUCTOR	
LED	ZC12/18
FWHM / FWTM	47.0° / 61.0°
Efficiency	86 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13868_LENA-STD-BASE-VERO13-18	
Bender Wirth: 433 Typ L1	

 SEOUL SEMICONDUCTOR	
LED	ZC4/6
FWHM / FWTM	44.0° / 59.0°
Efficiency	86 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13868_LENA-STD-BASE-VERO13-18	
Bender Wirth: 434 Typ L1	

 SEOUL SEMICONDUCTOR	
LED	ZC4/6
FWHM / FWTM	45.0° / 64.0°
Efficiency	81 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13868_LENA-STD-BASE-VERO13-18	
C11996_LENA-LENS	
Bender Wirth: 434 Typ L1	

GENERAL INFORMATION:

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

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

MATERIALS:

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

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The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

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[C11996_LENA-LENS](#) [C12083_BROOKE-SCR-M](#) [C12095_MINNIE-M](#) [C12097_MINNIE-WWW](#) [C12154_LENA-M](#) [C12469_LISA2-R-](#)
[PIN](#) [C12476_MIRELLA-50-S](#) [C12477_MIRELLA-50-M](#) [C12480_MIRELLA-50-S-PIN](#) [C12516_RITA-WAS](#) [C12597_LENINA-S](#)
[C12599_LENINA-W](#) [C12948_LENA-WAS](#) [C12958_LENINA-XW](#) [C13085_MIRELLA-50-S-PF](#) [C13087_MIRELLA-50-W-PF](#)
[C13101_LENA-X-WAS](#) [C13555_BRIDGET-W-UNI](#) [C13556_BRIDGET-M-UNI](#) [C13557_BRIDGET-S-UNI](#) [C14346_ANGELETTE-WAS](#)
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