

LENA-W

~45° wide beam

SPECIFICATION:

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

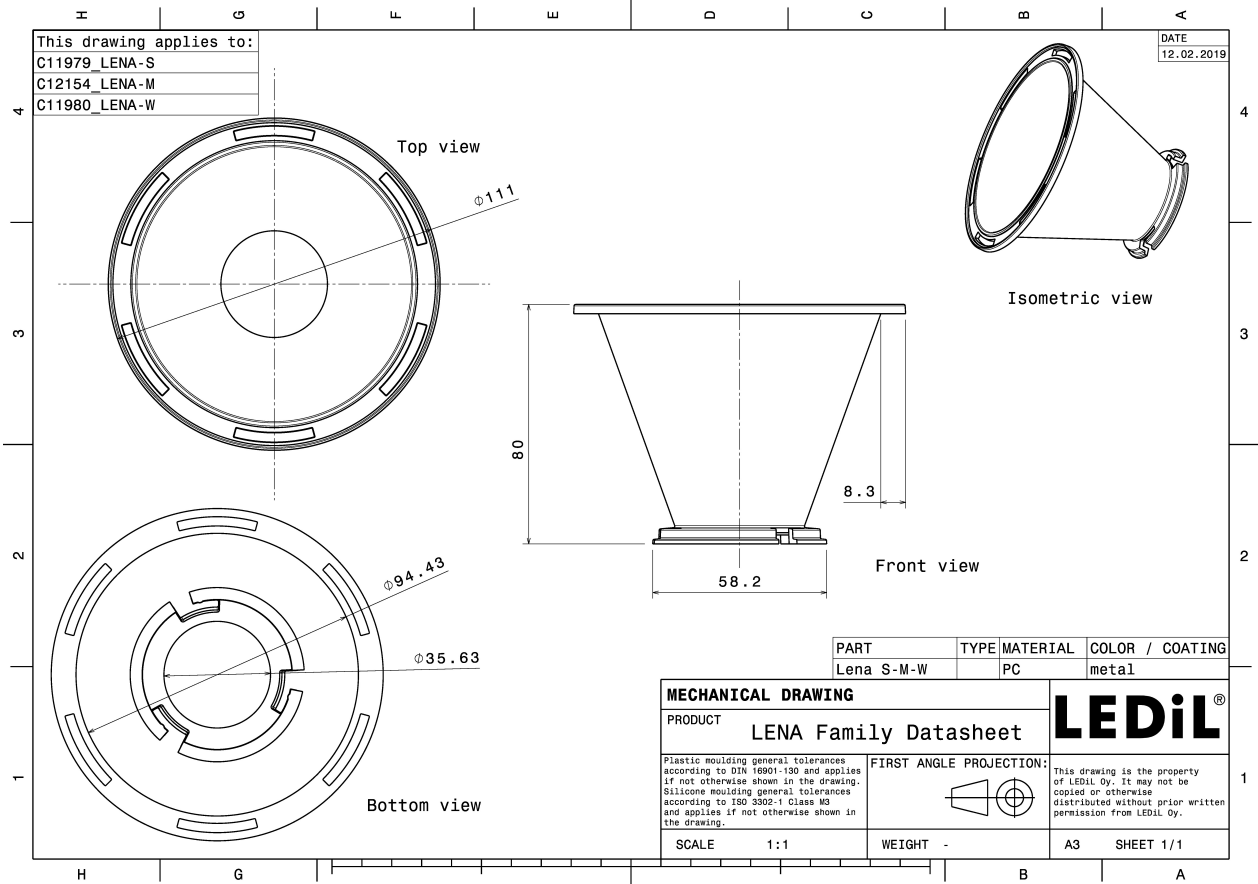
MATERIALS:

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

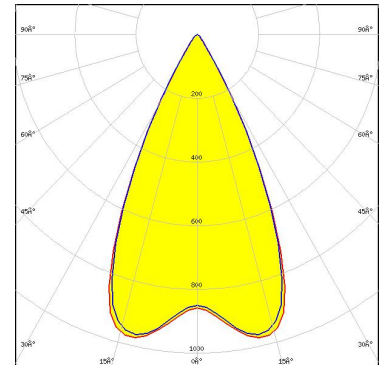
OPTICAL RESULTS (MEASURED):



LED BXRA ES Rectangle
FWHM / FWTM 46.0° / 64.0°
Efficiency 74 %
LEDs/each optic 1
Light colour/type 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/type White
Required components:
C12229_LENA-STD-BASE-RS
C11996_LENA-LENS



Light distribution files



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

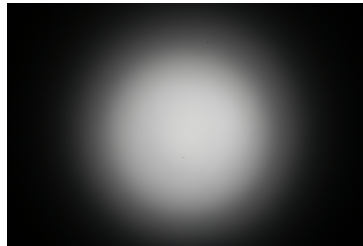
OPTICAL RESULTS (MEASURED):



LED V10 Gen6
 FWHM / FWTM 39.0° / 64.0°
 Efficiency 74 %
 Peak intensity 1.9 cd/lm
 LEDs/each optic 1
 Light colour/type White

Required components:

C13186_LENA-STD-BASE-CXA15
 C11996_LENA-LENS



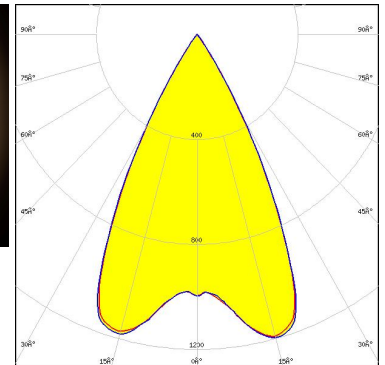
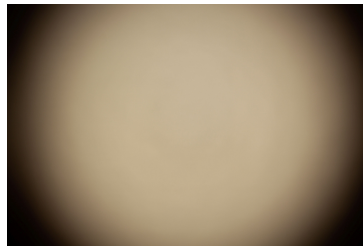
Light distribution files



LED Vero SE 29
 FWHM / FWTM 57.0° / 70.0°
 Efficiency 86 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type White

Required components:

C15083_LENA-STD-BASE-VERO29



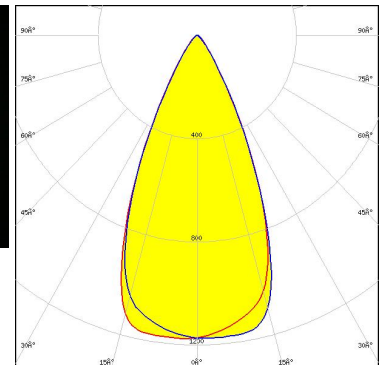
Light distribution files



LED VERO13
 FWHM / FWTM 48.0° / 71.0°
 Efficiency 80 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type White

Required components:

C13868_LENA-STD-BASE-VERO13-18
 C11996_LENA-LENS

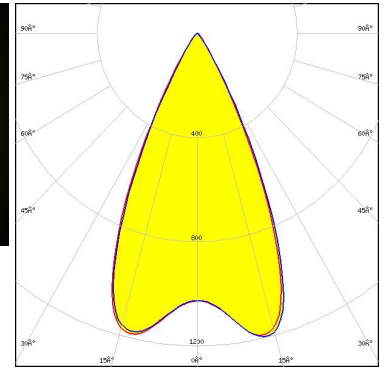


Light distribution files

OPTICAL RESULTS (MEASURED):



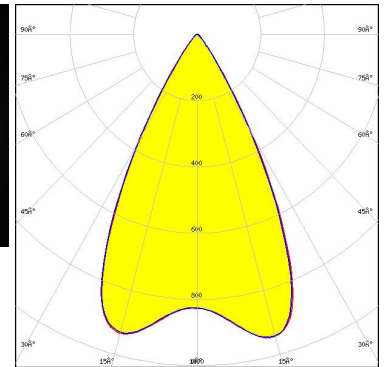
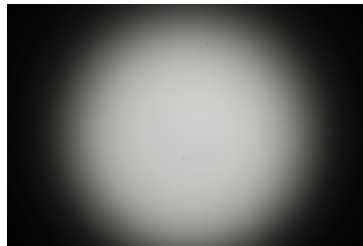
LED VERO18
FWHM / FWTM 52.0° / 69.0°
Efficiency 80 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
 C13868_LENA-STD-BASE-VERO13-18
 C11996_LENA-LENS



Light distribution files



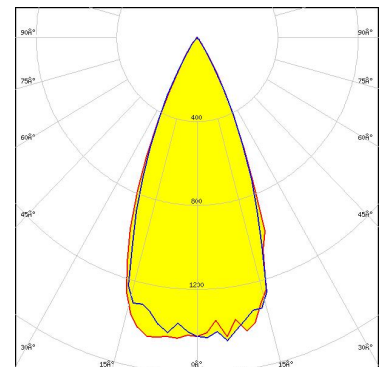
LED VERO29
FWHM / FWTM 57.0° / 75.0°
Efficiency 76 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
 C13867_LENA-STD-BASE-VERO29
 C11996_LENA-LENS



Light distribution files

CITIZEN

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

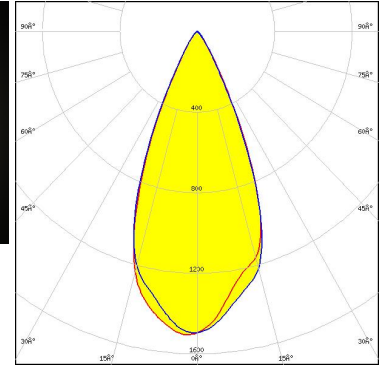


Light distribution files

OPTICAL RESULTS (MEASURED):

CITIZEN

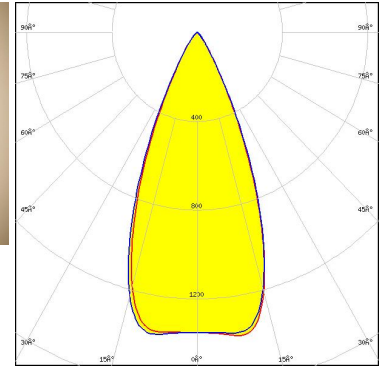
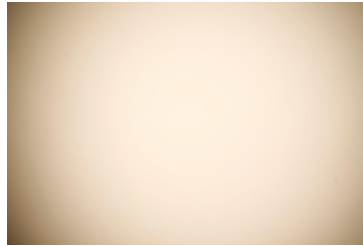
LED CLL02x/CLU02x (LES10)
FWHM / FWTM 45.0° / 64.0°
Efficiency 81 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
C13868_LENA-STD-BASE-VERO13-18
C11996_LENA-LENS
Bender Wirth: 434 Typ L1



Light distribution files

CITIZEN

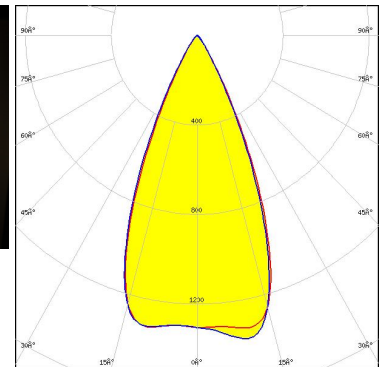
LED CLL03x/CLU03x
FWHM / FWTM 45.0° / 66.0°
Efficiency 79 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
C11996_LENA-LENS
A.A.G. STUCCHI: 8101-G2 + S-8000-11



Light distribution files

CITIZEN

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

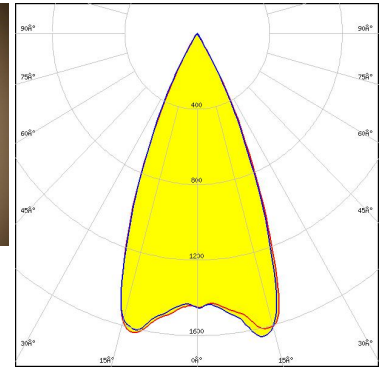
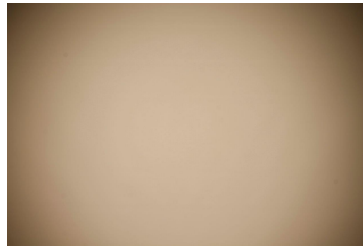


Light distribution files

OPTICAL RESULTS (MEASURED):

CITIZEN

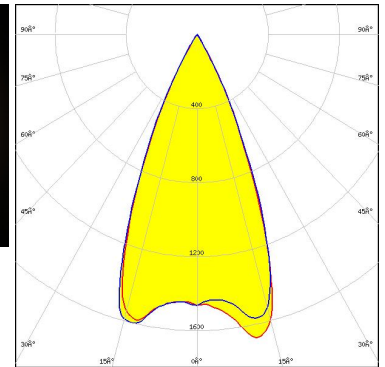
LED CLL03x/CLU03x
 FWHM / FWTM 47.0° / 67.0°
 Efficiency 81 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13868_LENA-STD-BASE-VERO13-18
 C11996_LENA-LENS
 Bender Wirth: 433 Typ L1



Light distribution files

CITIZEN

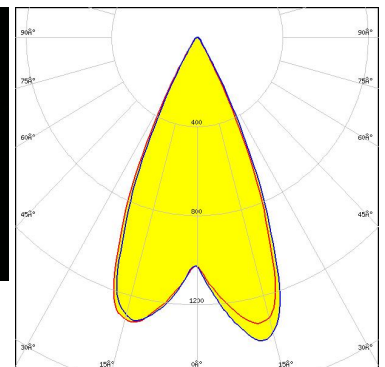
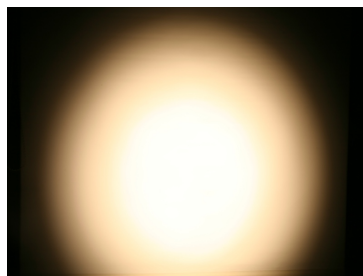
LED CLL03x/CLU03x
 FWHM / FWTM 47.0° / 61.0°
 Efficiency 85 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C12691_LENA-STD-BASE-CLL030



Light distribution files

CITIZEN

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

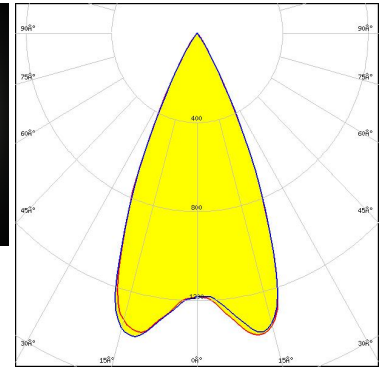
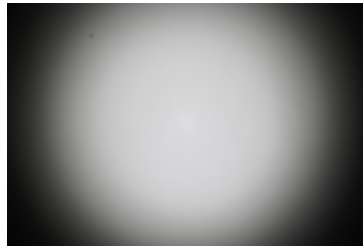


Light distribution files

OPTICAL RESULTS (MEASURED):

CITIZEN

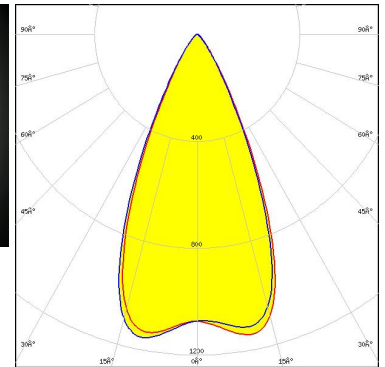
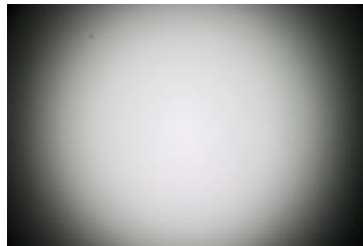
LED CLL04x/CLU04x
 FWHM / FWTM 50.0° / 65.0°
 Efficiency 81 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 IDEAL: 50-2204CT + 50-2100LN



Light distribution files

CITIZEN

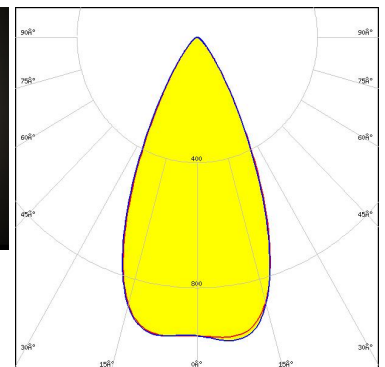
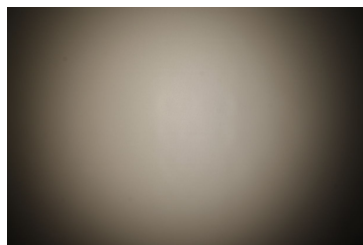
LED CLL04x/CLU04x
 FWHM / FWTM 49.0° / 72.0°
 Efficiency 77 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C11996_LENA-LENS
 IDEAL: 50-2204CT + 50-2100LN



Light distribution files

CITIZEN

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



Light distribution files

OPTICAL RESULTS (MEASURED):

CITIZEN

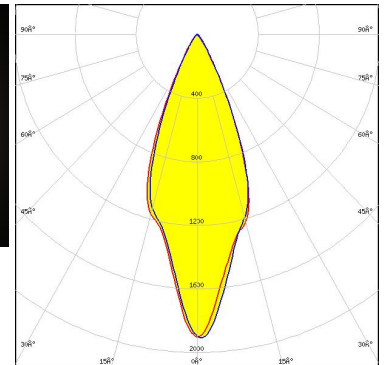
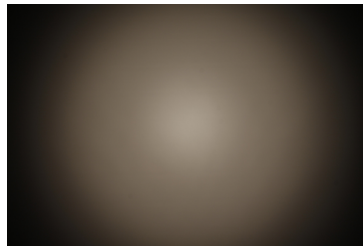
LED CLL04x/CLU04x
FWHM / FWTM 46.0° / 64.0°
Efficiency 76 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
C12692_LENA-STD-BASE-CLL040
C11996_LENA-LENS



Light distribution files

CITIZEN

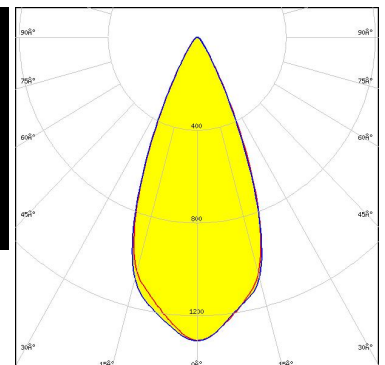
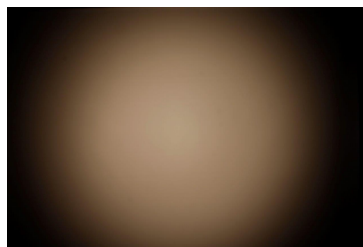
LED CLU700/701/702/703
FWHM / FWTM 39.0° / 61.0°
Efficiency 81 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
C13868_LENA-STD-BASE-VERO13-18
C11996_LENA-LENS
Bender Wirth: 434 Typ L1



Light distribution files

CITIZEN

LED CLU720/721/723
FWHM / FWTM 46.0° / 66.0°
Efficiency 76 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
C12691_LENA-STD-BASE-CLL030
C11996_LENA-LENS

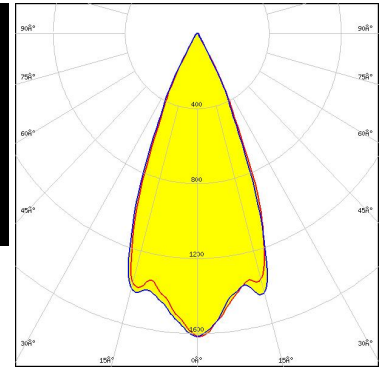
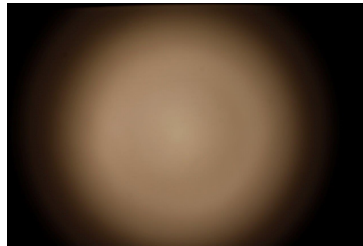


Light distribution files

OPTICAL RESULTS (MEASURED):

CITIZEN

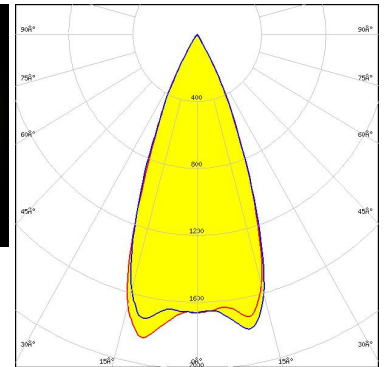
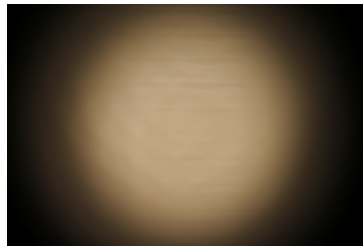
LED CLU720/721/723
 FWHM / FWTM 44.0° / 60.0°
 Efficiency 81 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C12691_LENA-STD-BASE-CLL030



Light distribution files



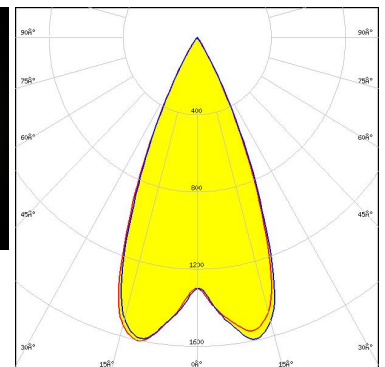
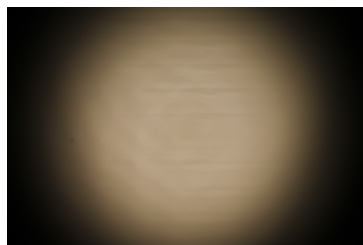
LED CMA1840
 FWHM / FWTM 43.0° / 60.0°
 Efficiency 86 %
 Peak intensity 1.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C14146_LENA-STD-BASE-CXA18



Light distribution files



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

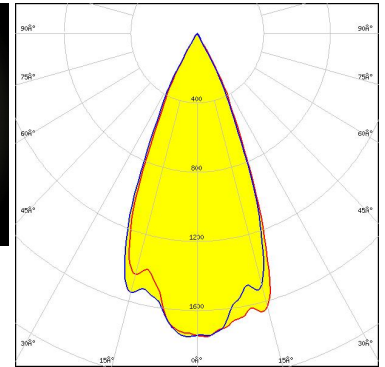
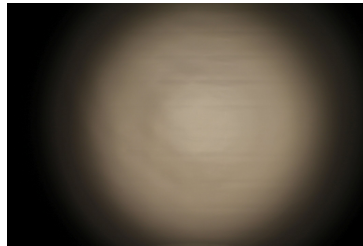


Light distribution files

OPTICAL RESULTS (MEASURED):



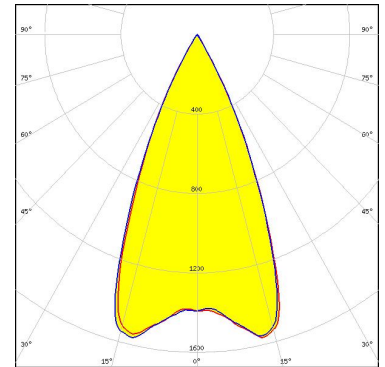
LED CMT14xx
FWHM / FWTM 44.0° / 60.0°
Efficiency 85 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
 C13868_LENA-STD-BASE-VERO13-18
 Bender Wirth: 434 Typ L1



Light distribution files



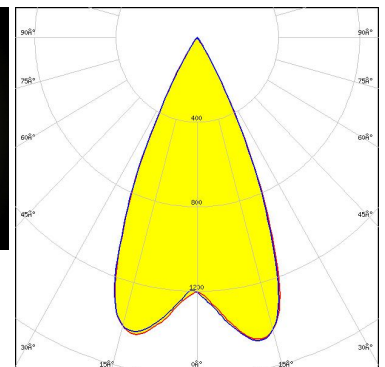
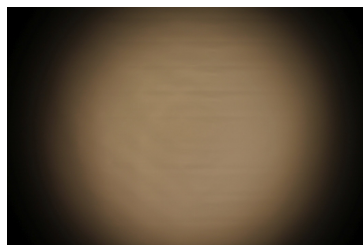
LED CMT19xx
FWHM / FWTM 47.0° / 61.0°
Efficiency 86 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
 C13868_LENA-STD-BASE-VERO13-18
 Bender Wirth: 477 Typ L1



Light distribution files



LED CMT28xx
FWHM / FWTM 51.0° / 64.0°
Efficiency 86 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
 C12692_LENA-STD-BASE-CLL040



Light distribution files

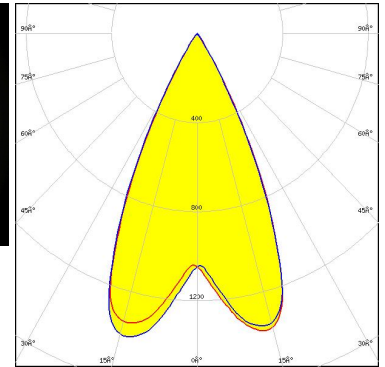
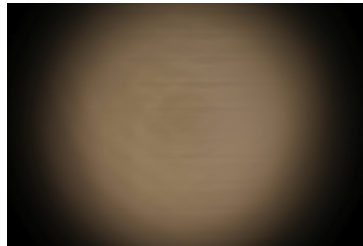
OPTICAL RESULTS (MEASURED):



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

Required components:

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



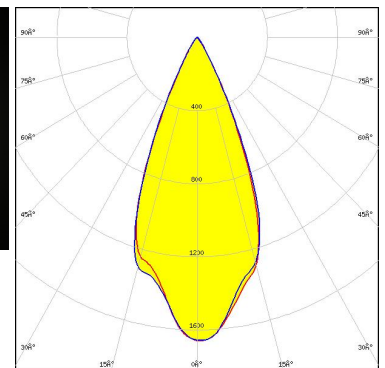
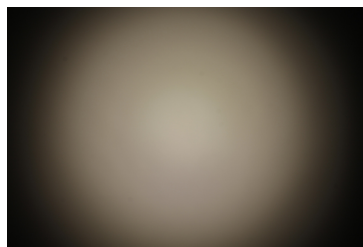
Light distribution files



LED CXA/B 15xx
 FWHM / FWTM 44.0° / 61.0°
 Efficiency 81 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour/type White

Required components:

C13868_LENA-STD-BASE-VERO13-18
 C11996_LENA-LENS
 Bender Wirth: 441 Typ L1



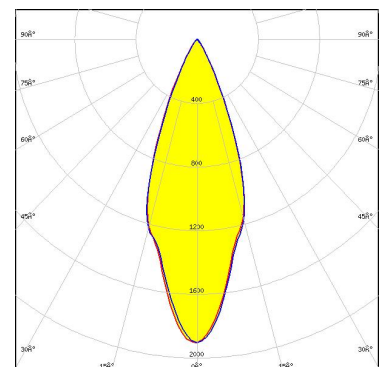
Light distribution files



LED CXA/B 15xx
 FWHM / FWTM 38.0° / 59.0°
 Efficiency 77 %
 Peak intensity 1.9 cd/lm
 LEDs/each optic 1
 Light colour/type White

Required components:

C13186_LENA-STD-BASE-CXA15
 C11996_LENA-LENS



Light distribution files

OPTICAL RESULTS (MEASURED):



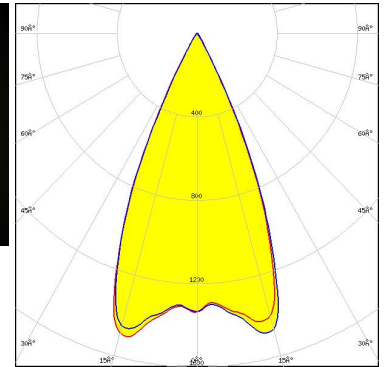
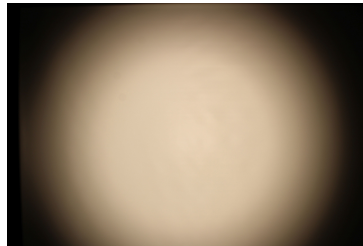
LED CXA/B 1830
 FWHM / FWTM 49.0° / 60.0°
 Efficiency 82 %
 Peak intensity 1.5 cd/lm
 LEDs/each optic 1
 Light colour/type White

Required components:

C13868_LENA-STD-BASE-VERO13-18

C14169_LENA-CLEAR-LENS

Bender Wirth: 437 Typ L1



Light distribution files



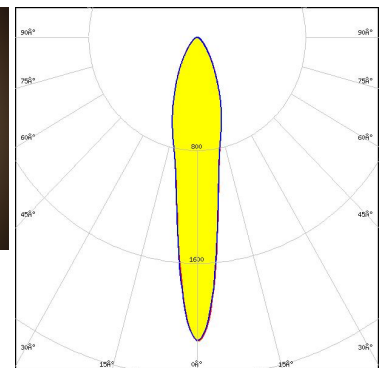
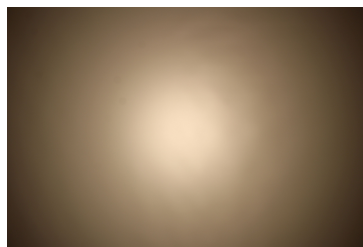
LED CXA/B 1830
 FWHM / FWTM 17.0° / 64.0°
 Efficiency 74 %
 Peak intensity 2.2 cd/lm
 LEDs/each optic 1
 Light colour/type White

Required components:

C13868_LENA-STD-BASE-VERO13-18

C12231_LENA-FRESNEL

Bender Wirth: 437 Typ L1



Light distribution files

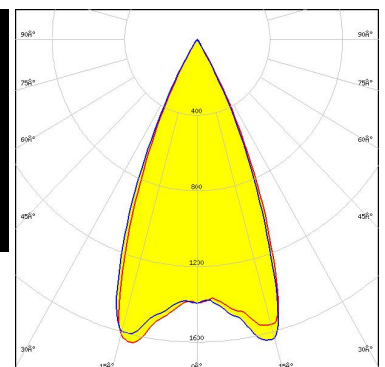
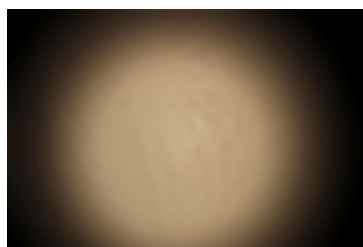


LED CXA/B 1830
 FWHM / FWTM 48.0° / 61.0°
 Efficiency 87 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour/type White

Required components:

C13868_LENA-STD-BASE-VERO13-18

Bender Wirth: 437 Typ L1



Light distribution files

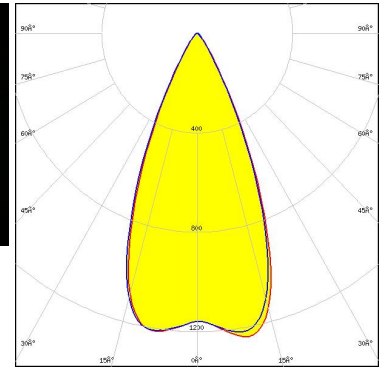
OPTICAL RESULTS (MEASURED):



LED CXA/B 25xx
 FWHM / FWTM 44.0° / 61.0°
 Efficiency 76 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour/type White

Required components:

C13324_LENA-STD-BASE-CXA25
 C11996_LENA-LENS



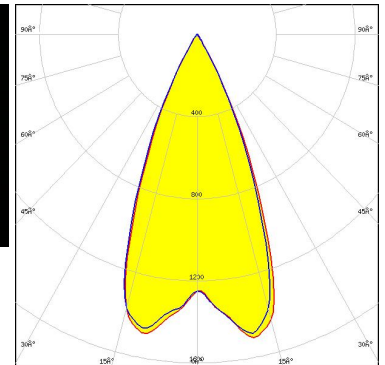
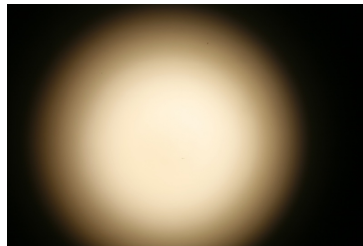
Light distribution files



LED CXA/B 25xx
 FWHM / FWTM 44.0° / 60.0°
 Efficiency 81 %
 Peak intensity 1.5 cd/lm
 LEDs/each optic 1
 Light colour/type White

Required components:

C13324_LENA-STD-BASE-CXA25



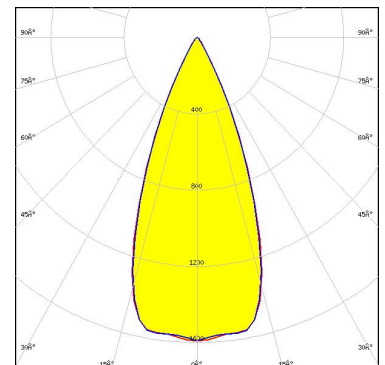
Light distribution files



LED CXA2011
 FWHM / FWTM 42.0°
 Efficiency 75 %
 LEDs/each optic 1
 Light colour/type White

Required components:

C12105_LENA-STD-BASE-CXA20
 C11996_LENA-LENS



Light distribution files

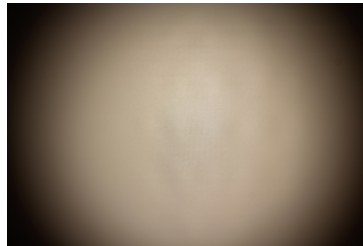
OPTICAL RESULTS (MEASURED):

EVERLIGHT

LED CHI3030 19W
FWHM / FWTM 50.0° / 70.0°
Efficiency 81 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:

C13867_LENA-STD-BASE-VERO29
C11996_LENA-LENS
Bender Wirth: 468 Typ L3



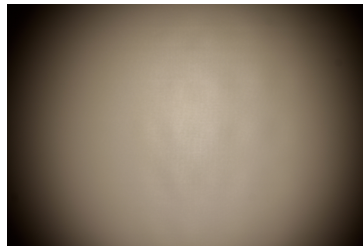
Light distribution files

EVERLIGHT

LED CHI3030 29W
FWHM / FWTM 53.0° / 76.0°
Efficiency 78 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:

C13867_LENA-STD-BASE-VERO29
C11996_LENA-LENS
Bender Wirth: 468 Typ L3



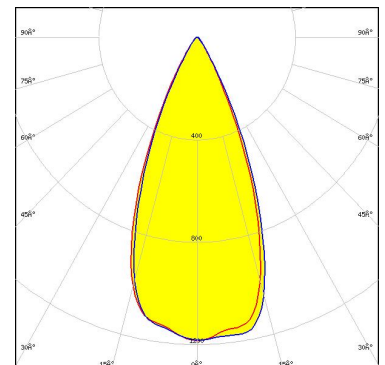
Light distribution files

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/type White

Required components:

C12292_LENA-STD-BASE-MEZ
C11996_LENA-LENS

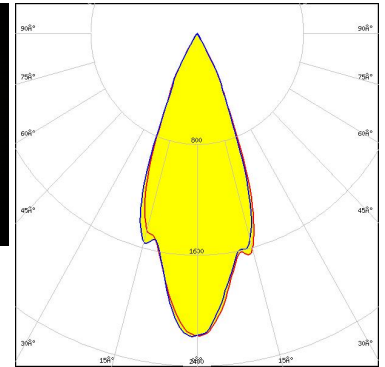


Light distribution files

OPTICAL RESULTS (MEASURED):



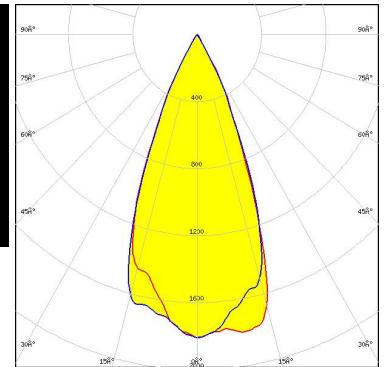
LED LUXEON CoB 1204HD
FWHM / FWTM 40.0° / 58.0°
Efficiency 86 %
Peak intensity 2.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
 C11981_LENA-STD-BASE-COB-L110



Light distribution files



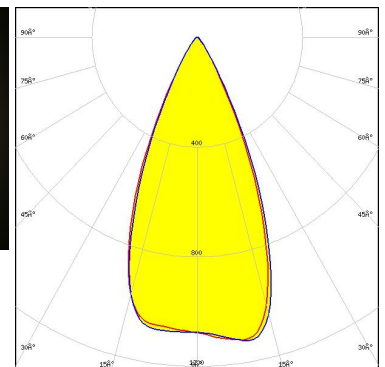
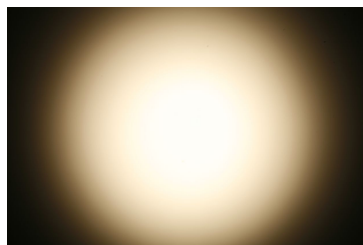
LED LUXEON CoB 1205HD
FWHM / FWTM 43.0° / 60.0°
Efficiency 85 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
 C11981_LENA-STD-BASE-COB-L110



Light distribution files



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

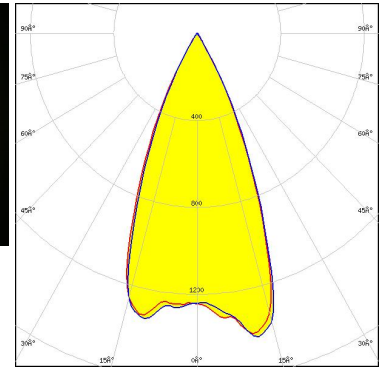


Light distribution files

OPTICAL RESULTS (MEASURED):



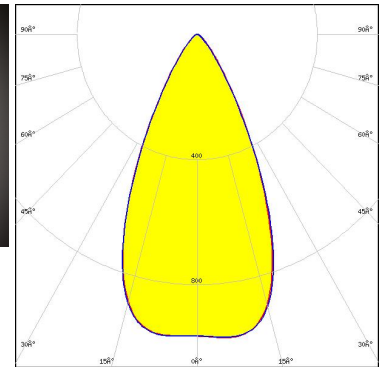
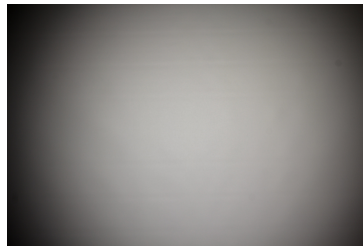
LED LUXEON CoB 1208
FWHM / FWTM 46.0° / 62.0°
Efficiency 73 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
C12292_LENA-STD-BASE-MEZ



Light distribution files



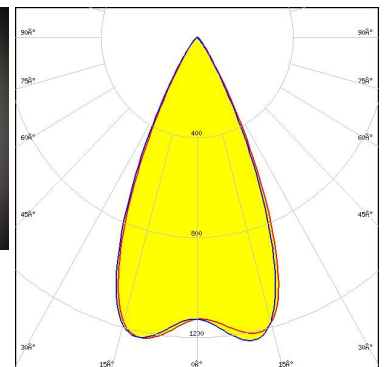
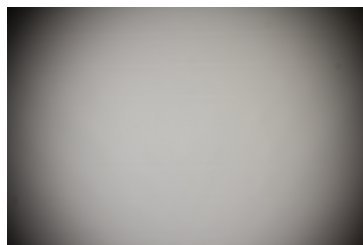
LED LUXEON CoB 1213/1216/1812
FWHM / FWTM 50.0° / 79.0°
Efficiency 75 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
C11996_LENA-LENS
A.A.G. STUCCHI: 8102-G2 + S-8000-12



Light distribution files



LED LUXEON CoB 1213/1216/1812
FWHM / FWTM 50.0° / 69.0°
Efficiency 81 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
C12692_LENA-STD-BASE-CLL040
C11996_LENA-LENS

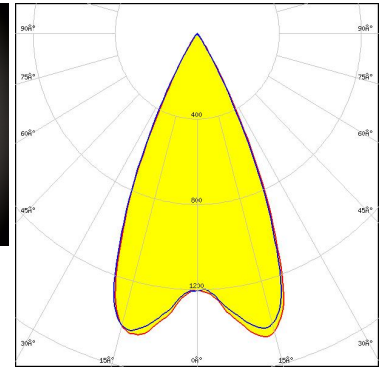
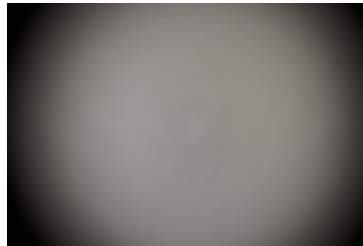


Light distribution files

OPTICAL RESULTS (MEASURED):



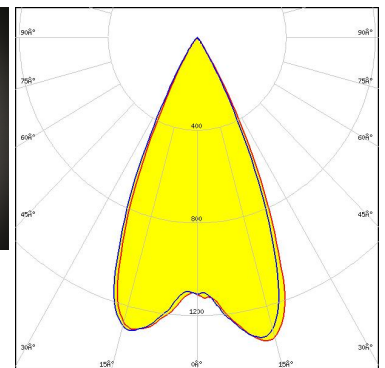
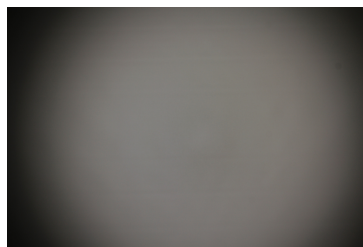
LED LUXEON CoB 1213/1216/1812
 FWHM / FWTM 51.0° / 64.0°
 Efficiency 86 %
 Peak intensity 1.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C12692_LENA-STD-BASE-CLL040



Light distribution files



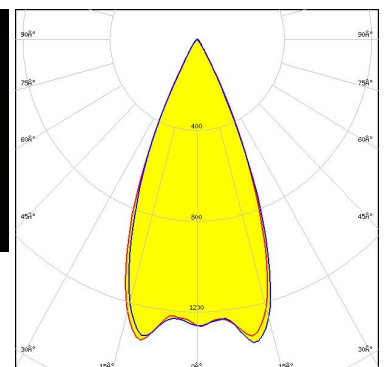
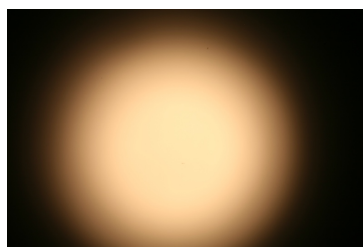
LED LUXEON CoB 1213/1216/1812
 FWHM / FWTM 51.0° / 65.0°
 Efficiency 79 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 A.A.G. STUCCHI: 8102-G2 + S-8000-12



Light distribution files



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



Light distribution files

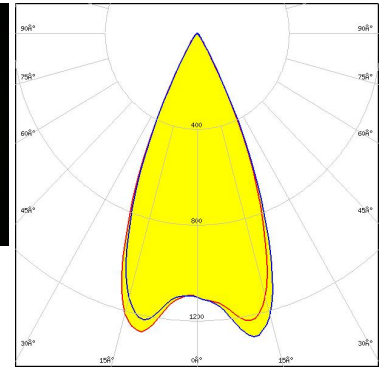
OPTICAL RESULTS (MEASURED):



LED LUXEON K16
 FWHM / FWTM 46.0° / 62.0°
 Efficiency 72 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour/type White

Required components:

C12924_LENA-STD-BASE-LUXEON-K
 C11996_LENA-LENS



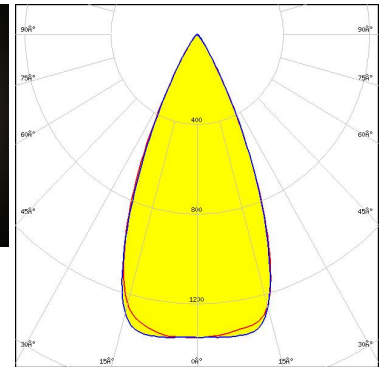
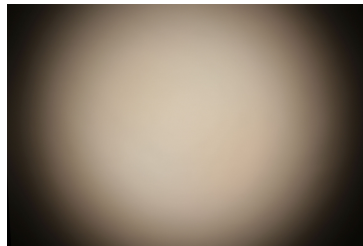
Light distribution files



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/type White

Required components:

C13868_LENA-STD-BASE-VERO13-18
 C11996_LENA-LENS
 Bender Wirth: 491 Typ L2



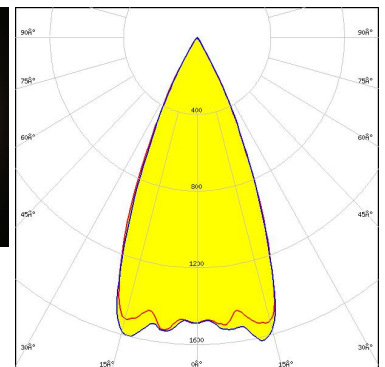
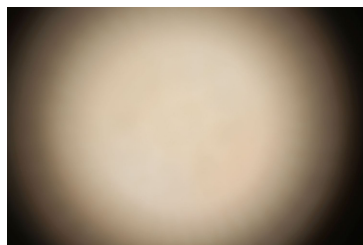
Light distribution files



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/type White

Required components:

C13868_LENA-STD-BASE-VERO13-18
 Bender Wirth: 491 Typ L2

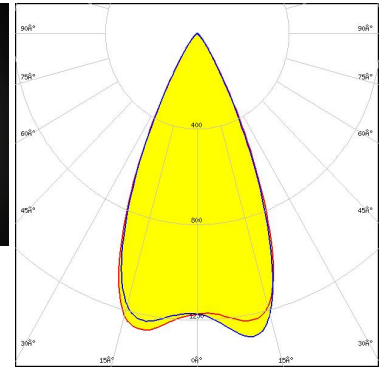


Light distribution files

OPTICAL RESULTS (MEASURED):



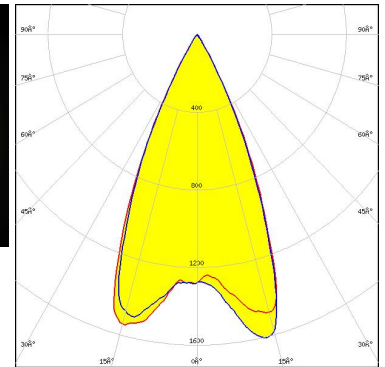
LED CDM-18 (Dim-To-Warm)
 FWHM / FWTM 48.0° / 68.0°
 Efficiency 82 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13868_LENA-STD-BASE-VERO13-18
 C11996_LENA-LENS
 Bender Wirth: 491 Typ L2



Light distribution files



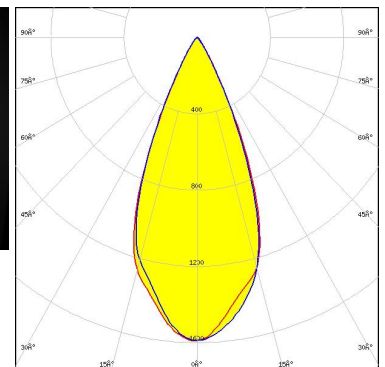
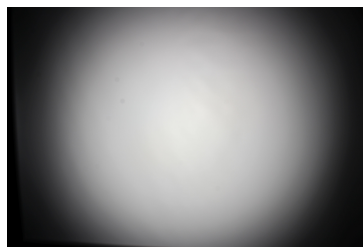
LED CDM-18 (Dim-To-Warm)
 FWHM / FWTM 50.0° / 63.0°
 Efficiency 87 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13868_LENA-STD-BASE-VERO13-18
 Bender Wirth: 491 Typ L2



Light distribution files



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/type White
 Required components:
 C13868_LENA-STD-BASE-VERO13-18
 C11996_LENA-LENS
 Bender Wirth: 490 Typ L1

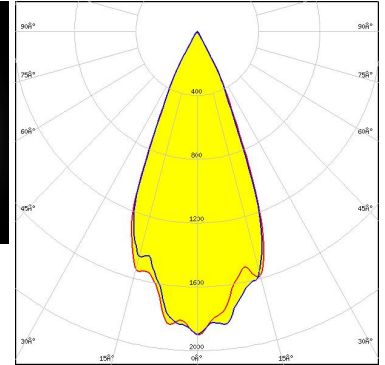
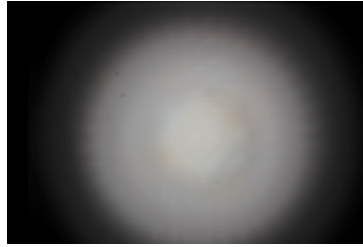


Light distribution files

OPTICAL RESULTS (MEASURED):



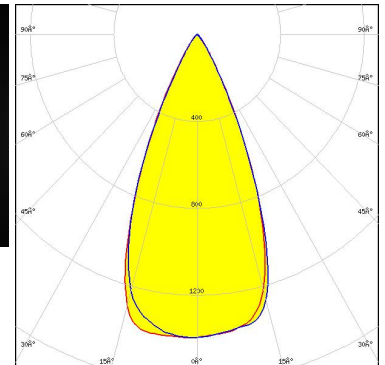
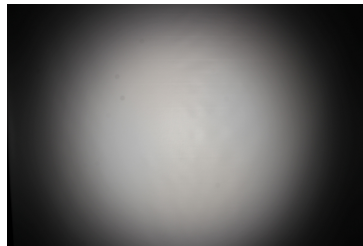
LED CDM-9 (Dim-To-Warm)
 FWHM / FWTM 44.0° / 59.0°
 Efficiency 87 %
 Peak intensity 1.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13868_LENA-STD-BASE-VERO13-18
 Bender Wirth: 490 Typ L1



Light distribution files



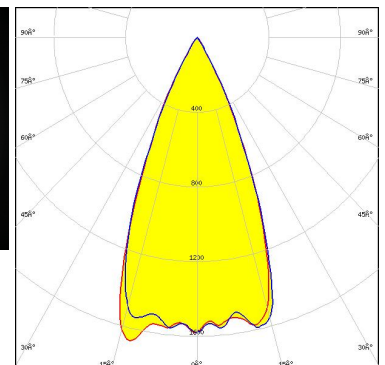
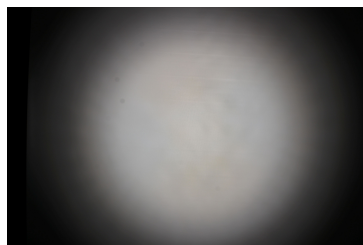
LED CTM-14 (Tunable White)
 FWHM / FWTM 46.0° / 65.0°
 Efficiency 81 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13867_LENA-STD-BASE-VERO29
 C12606_LENINA-DL
 Bender Wirth: 442 Typ L3



Light distribution files



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/type White
 Required components:
 C13867_LENA-STD-BASE-VERO29
 Bender Wirth: 442 Typ L3

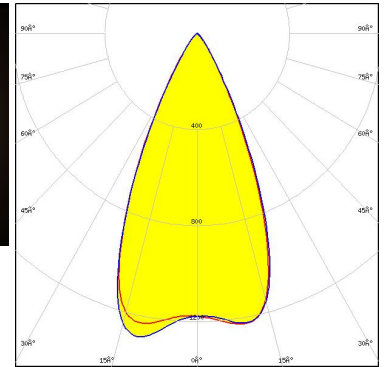


Light distribution files

OPTICAL RESULTS (MEASURED):



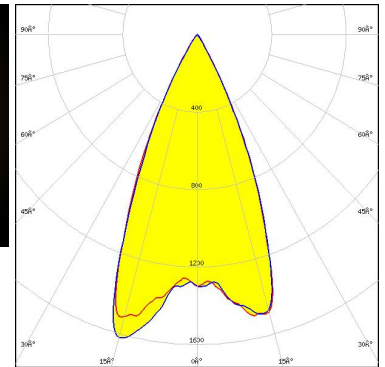
LED CTM-18 (Tunable White)
 FWHM / FWTM 49.0° / 69.0°
 Efficiency 81 %
 Peak intensity 1.3 cd/m
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13867_LENA-STD-BASE-VERO29
 C11996_LENA-LENS
 Bender Wirth: 442 Typ L3



Light distribution files



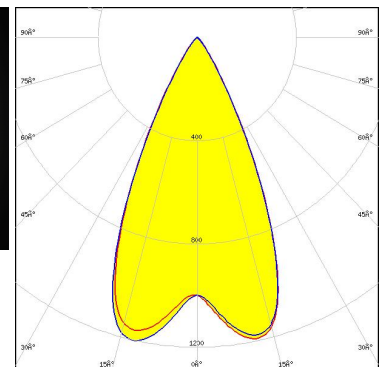
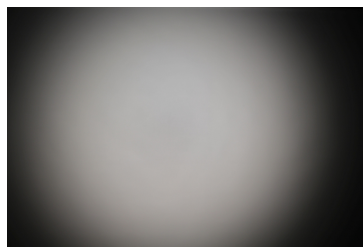
LED CTM-18 (Tunable White)
 FWHM / FWTM 49.0° / 63.0°
 Efficiency 87 %
 Peak intensity 1.6 cd/m
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13867_LENA-STD-BASE-VERO29
 Bender Wirth: 442 Typ L3



Light distribution files



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

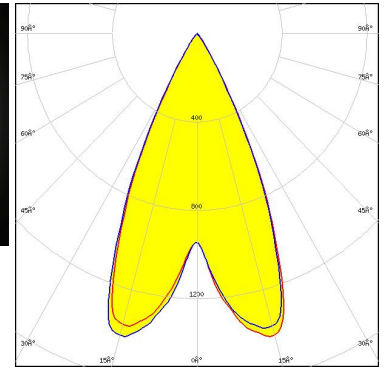
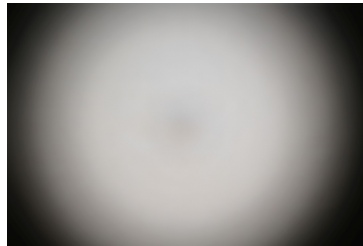


Light distribution files

OPTICAL RESULTS (MEASURED):



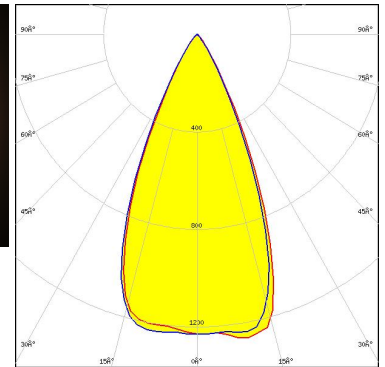
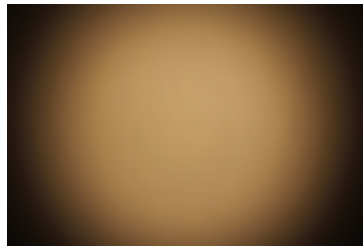
LED CTM-22 (Tunable White)
FWHM / FWTM 55.0° / 68.0°
Efficiency 86 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
 C13867_LENA-STD-BASE-VERO29
 Bender Wirth: 494 Typ L3



Light distribution files



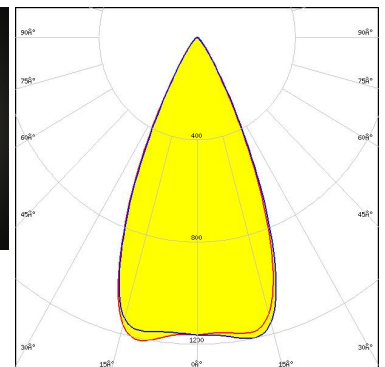
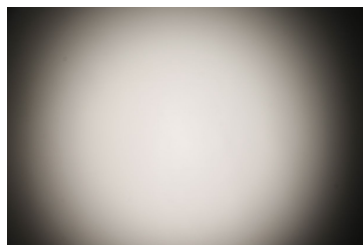
LED CxM-14 (19x19)
FWHM / FWTM 48.0° / 68.0°
Efficiency 78 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
 C12691_LENA-STD-BASE-CLL030
 C11996_LENA-LENS



Light distribution files



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

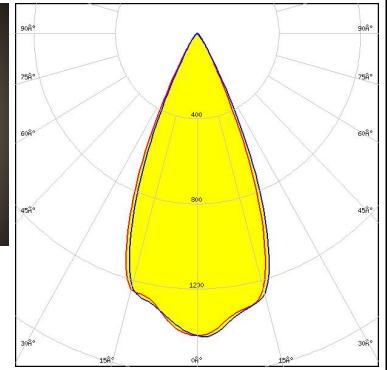
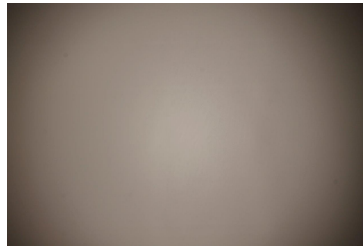


Light distribution files

OPTICAL RESULTS (MEASURED):



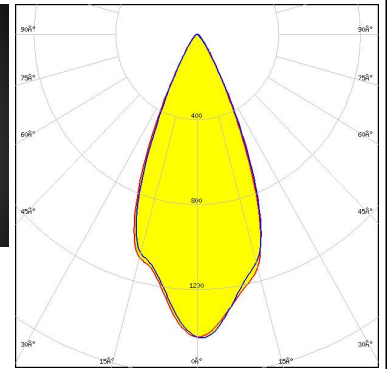
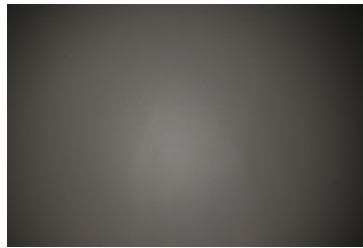
LED COB L-Type (LES 11)
FWHM / FWTM 46.0° / 63.0°
Efficiency 79 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
 C13868_LENA-STD-BASE-VERO13-18
 C11996_LENA-LENS
 Bender Wirth: 438 Typ L1



Light distribution files



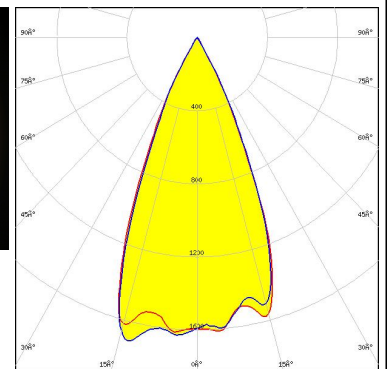
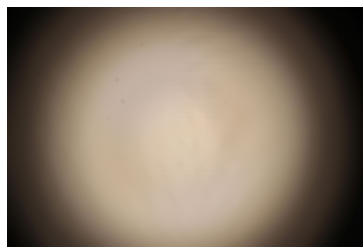
LED COB L-Type (LES 9)
FWHM / FWTM 45.0° / 66.0°
Efficiency 79 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
 C13868_LENA-STD-BASE-VERO13-18
 C11996_LENA-LENS
 Bender Wirth: 438 Typ L1



Light distribution files



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/type White
Required components:
 C13868_LENA-STD-BASE-VERO13-18
 Bender Wirth: 498 Typ L2

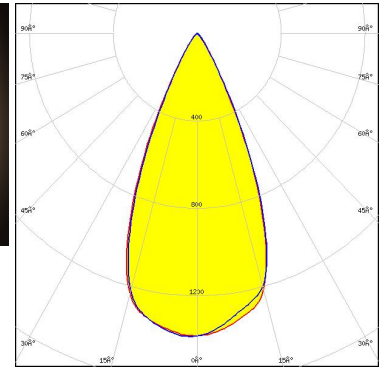


Light distribution files

OPTICAL RESULTS (MEASURED):



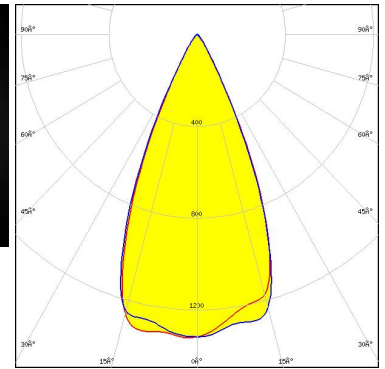
LED NVCWJ024Z-V1MT: COB J-Type Tunable White
FWHM / FWTM 46.0° / 66.0°
Efficiency 81 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
 C13868_LENA-STD-BASE-VERO13-18
 C11996_LENA-LENS
 Bender Wirth: 498 Typ L2



Light distribution files



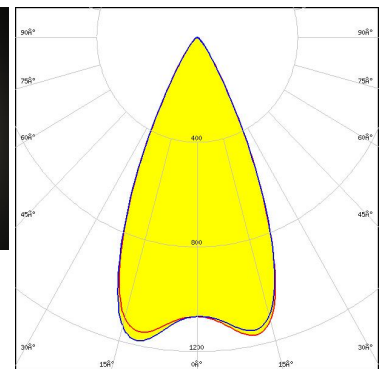
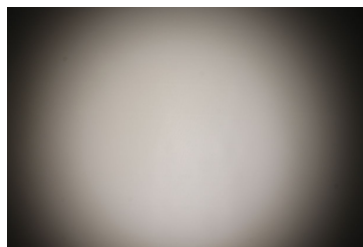
LED Soleriq S13
FWHM / FWTM 47.0° / 64.0°
Efficiency 78 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
 C13868_LENA-STD-BASE-VERO13-18
 C11996_LENA-LENS
 Bender Wirth: 437 Typ L1



Light distribution files



LED Soleriq S19
FWHM / FWTM 50.0° / 71.0°
Efficiency 78 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
 C13867_LENA-STD-BASE-VERO29
 C11996_LENA-LENS
 Bender Wirth: 462 Typ L3

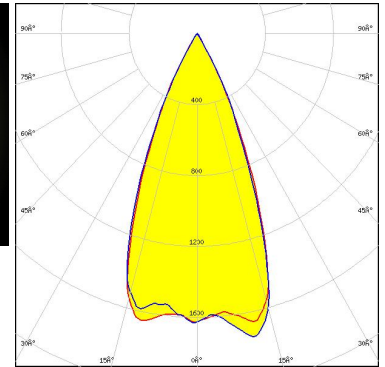


Light distribution files

OPTICAL RESULTS (MEASURED):

PHILIPS

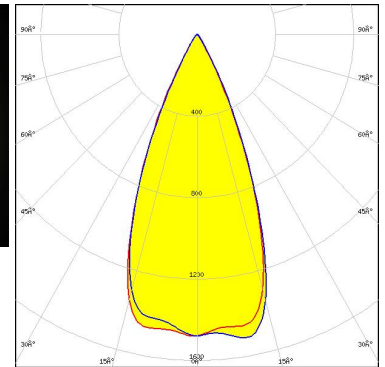
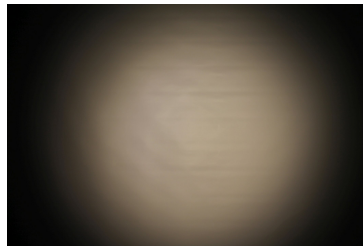
LED Fortimo SLM L13 CoB
 FWHM / FWTM 44.0° / 60.0°
 Efficiency 85 %
 Peak intensity 1.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C12292_LENA-STD-BASE-MEZ



Light distribution files

PHILIPS

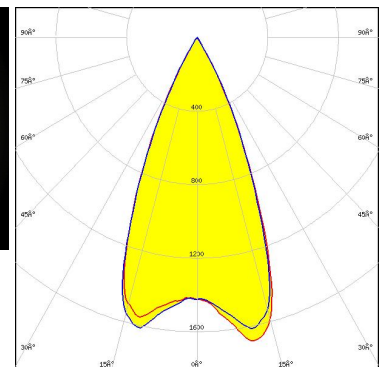
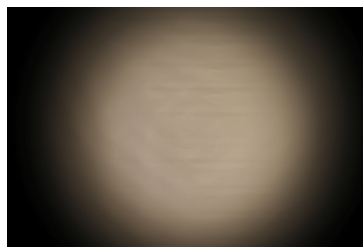
LED Fortimo SLM L13 CoB
 FWHM / FWTM 44.0° / 61.0°
 Efficiency 79 %
 Peak intensity 1.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C12292_LENA-STD-BASE-MEZ
 C11996_LENA-LENS



Light distribution files

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/type White
 Required components:
 C12292_LENA-STD-BASE-MEZ

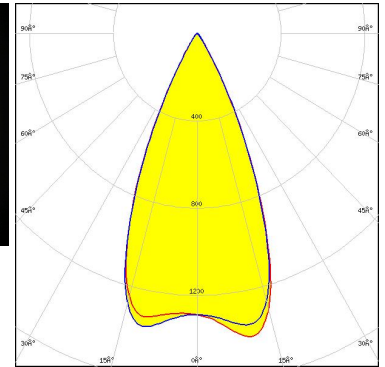
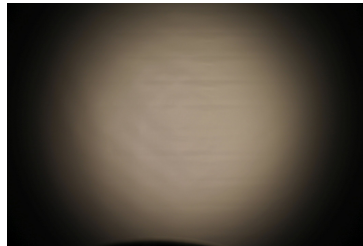


Light distribution files

OPTICAL RESULTS (MEASURED):

PHILIPS

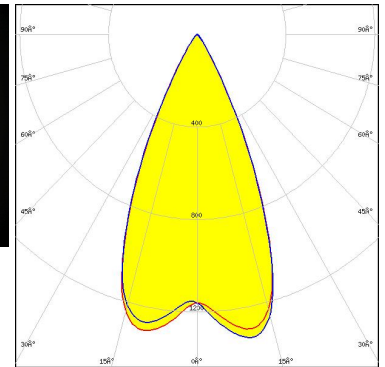
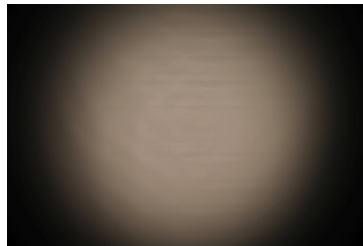
LED Fortimo SLM L15 CoB
 FWHM / FWTM 46.0° / 63.0°
 Efficiency 79 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C12292_LENA-STD-BASE-MEZ
 C11996_LENA-LENS



Light distribution files

PHILIPS

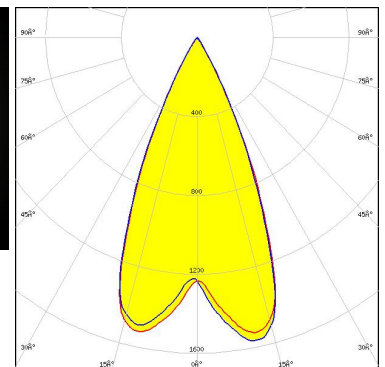
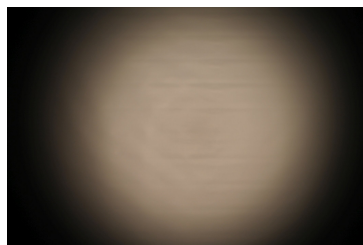
LED Fortimo SLM L19 CoB
 FWHM / FWTM 48.0° / 65.0°
 Efficiency 79 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C12692_LENA-STD-BASE-CLL040
 C11996_LENA-LENS



Light distribution files

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/type White
 Required components:
 C12692_LENA-STD-BASE-CLL040

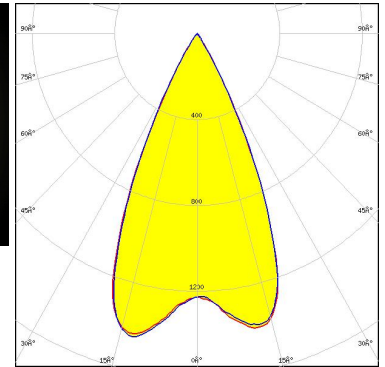


Light distribution files

OPTICAL RESULTS (MEASURED):

PHILIPS

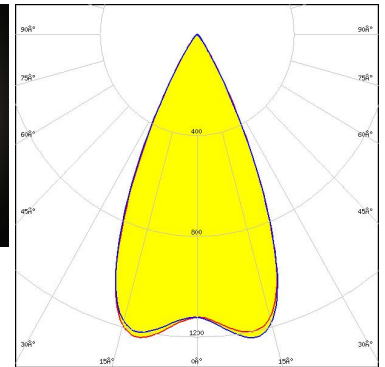
LED Fortimo SLM L23 CoB
FWHM / FWTM 51.0° / 64.0°
Efficiency 85 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
C12692_LENA-STD-BASE-CLL040



Light distribution files

PHILIPS

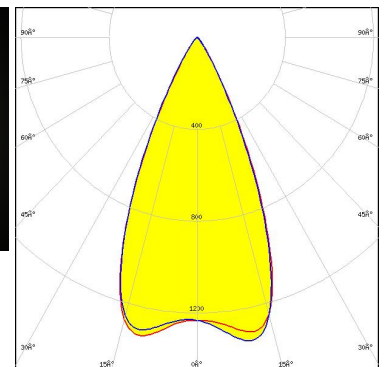
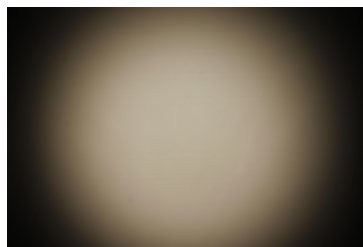
LED Fortimo SLM L23 CoB
FWHM / FWTM 50.0° / 67.0°
Efficiency 79 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
C12692_LENA-STD-BASE-CLL040
C11996_LENA-LENS



Light distribution files

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/type White
Required components:
C12691_LENA-STD-BASE-CLL030
C11996_LENA-LENS

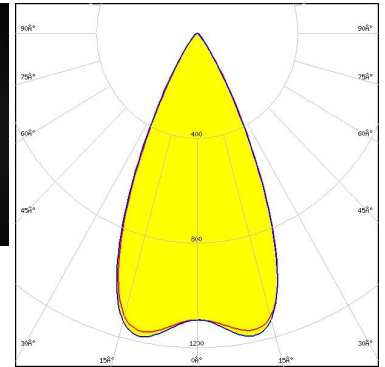
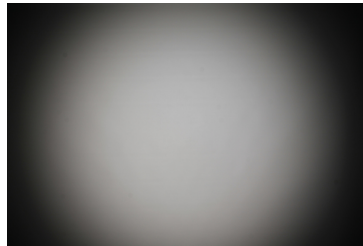


Light distribution files

OPTICAL RESULTS (MEASURED):

SAMSUNG

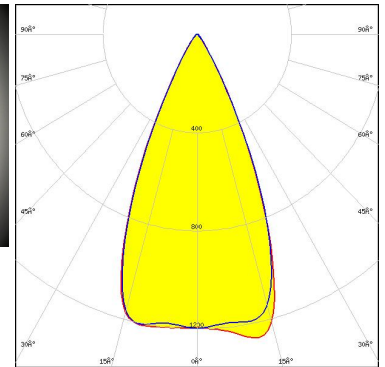
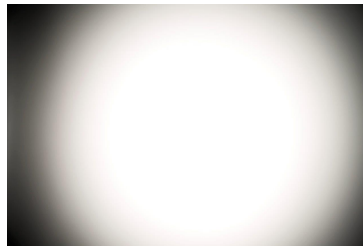
LED LC040D / LC060D / LC080D
FWHM / FWTM 51.0° / 71.0°
Efficiency 81 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
C12692_LENA-STD-BASE-CLL040
C11996_LENA-LENS



Light distribution files



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



Light distribution files

SHARP

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

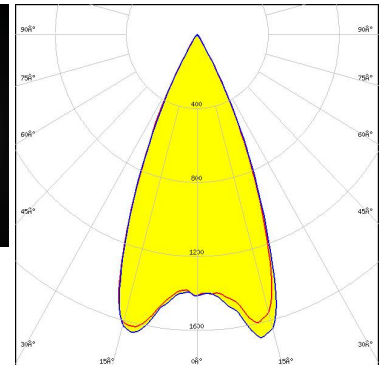
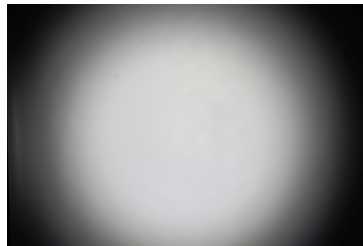
OPTICAL RESULTS (MEASURED):

SHARP

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

TRIDONIC

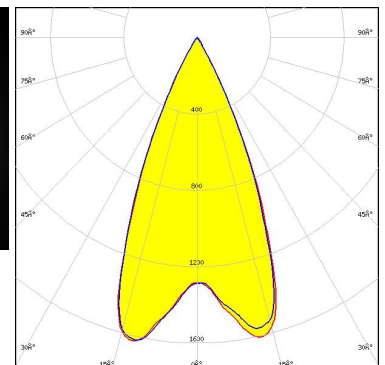
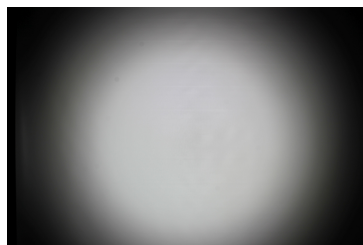
LED SLE G7 LES15
FWHM / FWTM 48.0° / 62.0°
Efficiency 88 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
C12691_LENA-STD-BASE-CLL030



Light distribution files

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/type White
Required components:
C14547_LENA-ADAPTER-B

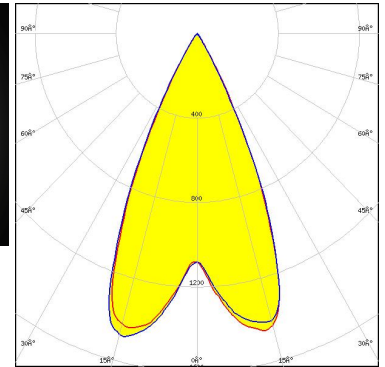


Light distribution files

OPTICAL RESULTS (MEASURED):

TRIDONIC

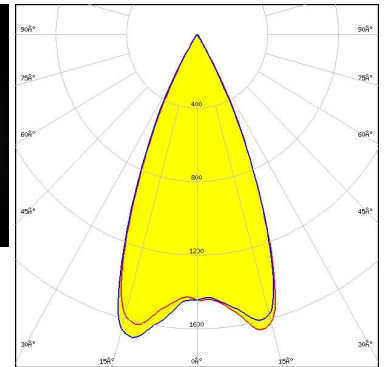
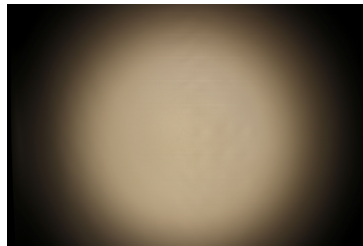
LED SLE G7 LES21 H
FWHM / FWTM 52.0° / 64.0°
Efficiency 86 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
C14547_LENA-ADAPTER-B



Light distribution files

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/type White
Required components:
C12691_LENA-STD-BASE-CLL030

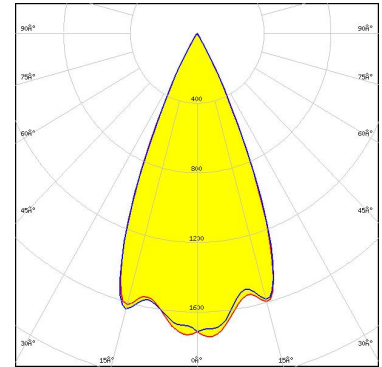


Light distribution files

OPTICAL RESULTS (SIMULATED):



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

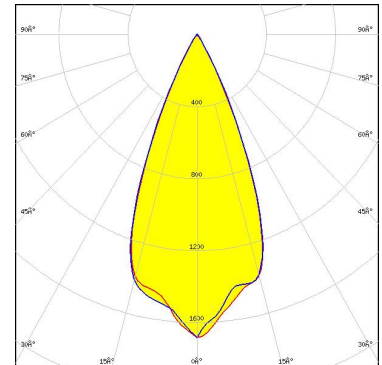


Bender Wirth: 486 Typ L1

Light distribution files



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

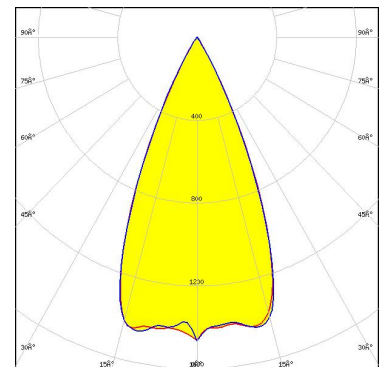


Bender Wirth: 486 Typ L1

Light distribution files



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



Bender Wirth: 477 Typ L1

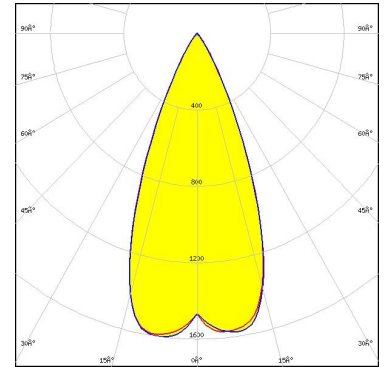
Light distribution files

OPTICAL RESULTS (SIMULATED):



LED V13 Gen7
FWHM / FWTM 42.0° / 64.0°
Efficiency 85 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:
C11996_LENA-LENS



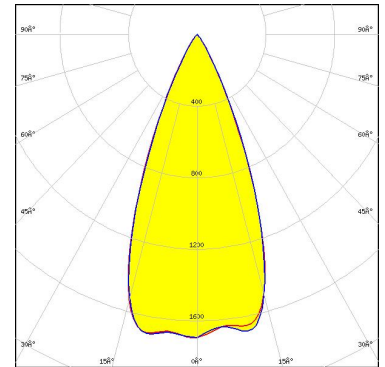
IDEAL: 50-2103CT + 50-2100LN

Light distribution files



LED V13 Gen7
FWHM / FWTM 44.0° / 62.0°
Efficiency 87 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:



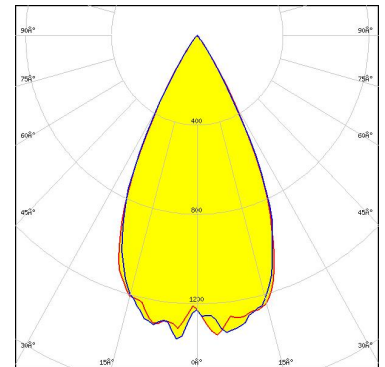
IDEAL: 50-2103CT + 50-2100LN

Light distribution files



LED V22 Gen7
FWHM / FWTM 51.0° / 67.0°
Efficiency 87 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour/type White

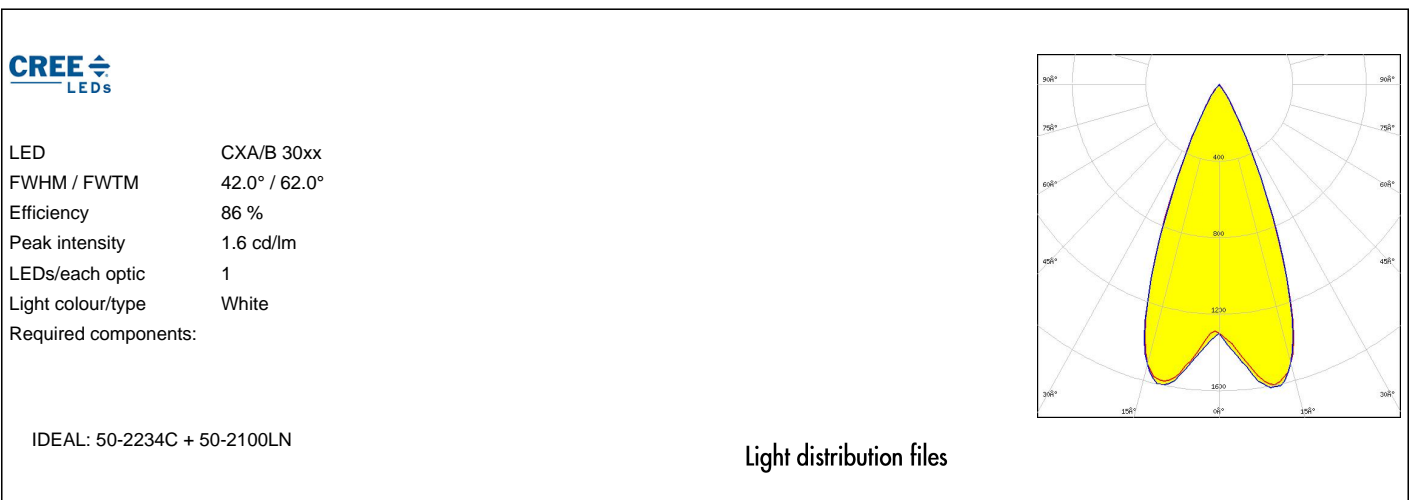
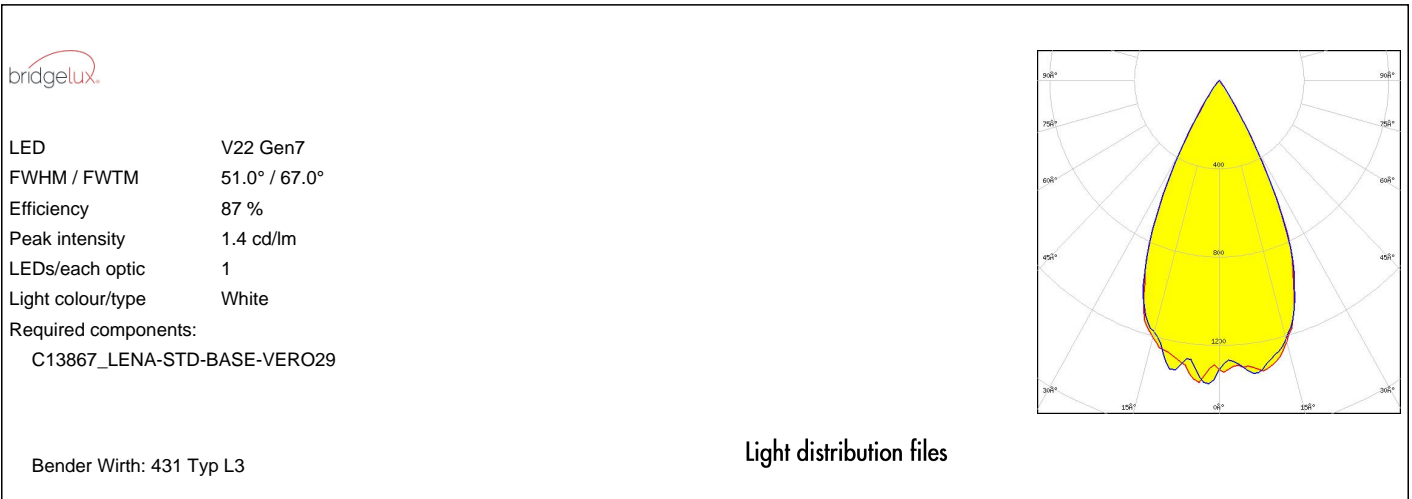
Required components:
C13867_LENA-STD-BASE-VERO29
C11996_LENA-LENS



Bender Wirth: 431 Typ L3

Light distribution files

OPTICAL RESULTS (SIMULATED):



OPTICAL RESULTS (SIMULATED):



LED CxM-14 (19x19)
FWHM / FWTM 47.0° / 61.0°
Efficiency 86 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:

C13868_LENA-STD-BASE-VERO13-18

Bender Wirth: 433 Typ L1



LED CxM-14 (19x19)
FWHM / FWTM 47.0° / 67.0°
Efficiency 81 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:

C13868_LENA-STD-BASE-VERO13-18

C11996_LENA-LENS

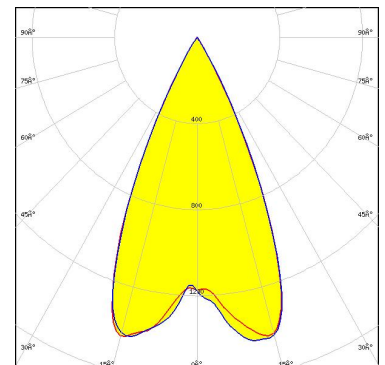
Bender Wirth: 433 Typ L1



LED CxM-22 (28x28)
FWHM / FWTM 48.0° / 62.0°
Efficiency 83 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:

C12692_LENA-STD-BASE-CLL040



Light distribution files

OPTICAL RESULTS (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/type 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/type White

Required components:

C13868_LENA-STD-BASE-VERO13-18

C11996_LENA-LENS

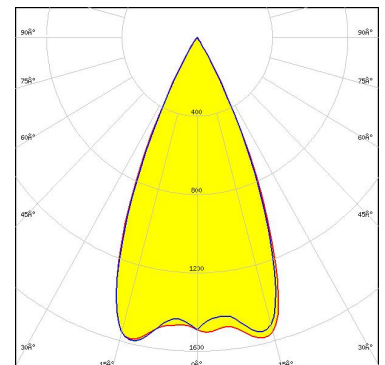
Bender Wirth: 434 Typ L1



LED Soleriq S15
FWHM / FWTM 48.0° / 61.0°
Efficiency 88 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour/type White


Required components:


C12691_LENA-STD-BASE-CLL030



Light distribution files

OPTICAL RESULTS (SIMULATED):

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

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

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

OPTICAL RESULTS (SIMULATED):



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/type	White

Required components:

C13868_LENA-STD-BASE-VERO13-18

Bender Wirth: 434 Typ L1

GENERAL INFORMATION:

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

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

MATERIALS:

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

PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

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

LEDiL Oy assumes neither warranty, nor guarantee nor any other liability of any kind for the contents and correctness of the provided data. The provided data has been generated with highest diligence but the provided data may in reality not represent the complete possible variation range of all intrinsic parameters. Therefore, in certain cases a deviation from the provided data could occur.

LEDiL Oy reserves the right to undertake technical changes of its products without further notification which could lead to changes in the provided data. LEDiL Oy assumes no liability of any kind for the possible deviation from any provided data or any other damage resulting from the usage of the provided data.

The user agrees to this disclaimer and user agreement with the download or usage of the provided files.

LEDiL Oy

Joensuunkatu 7
FI-24240 SALO
Finland

LEDiL Inc.

228 West Page Street
Suite D
Sycamore IL 60178
USA

Ledil Optics Technology (Shenzhen) Co., Ltd.

405 , Block B
Casic Motor Building
Shenzhen 518057
P.R.CHINA

Local sales and technical support

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

Shipping locations

Poznan, Poland
Hong Kong, China

Distribution Partners

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