

ANGELINA-XW

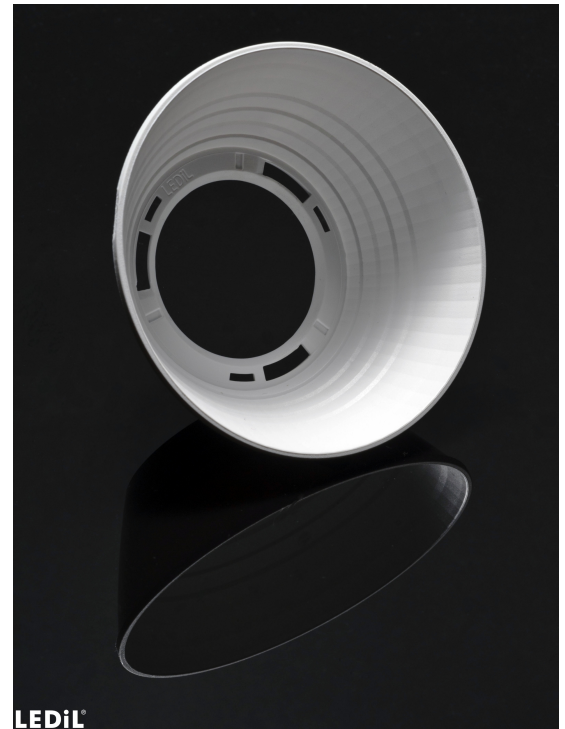
White version with ~91° wide beam

SPECIFICATION:

Dimensions	Ø 82.0 mm
Height	31 mm
Fastening	socket
ROHS compliant	yes ⓘ

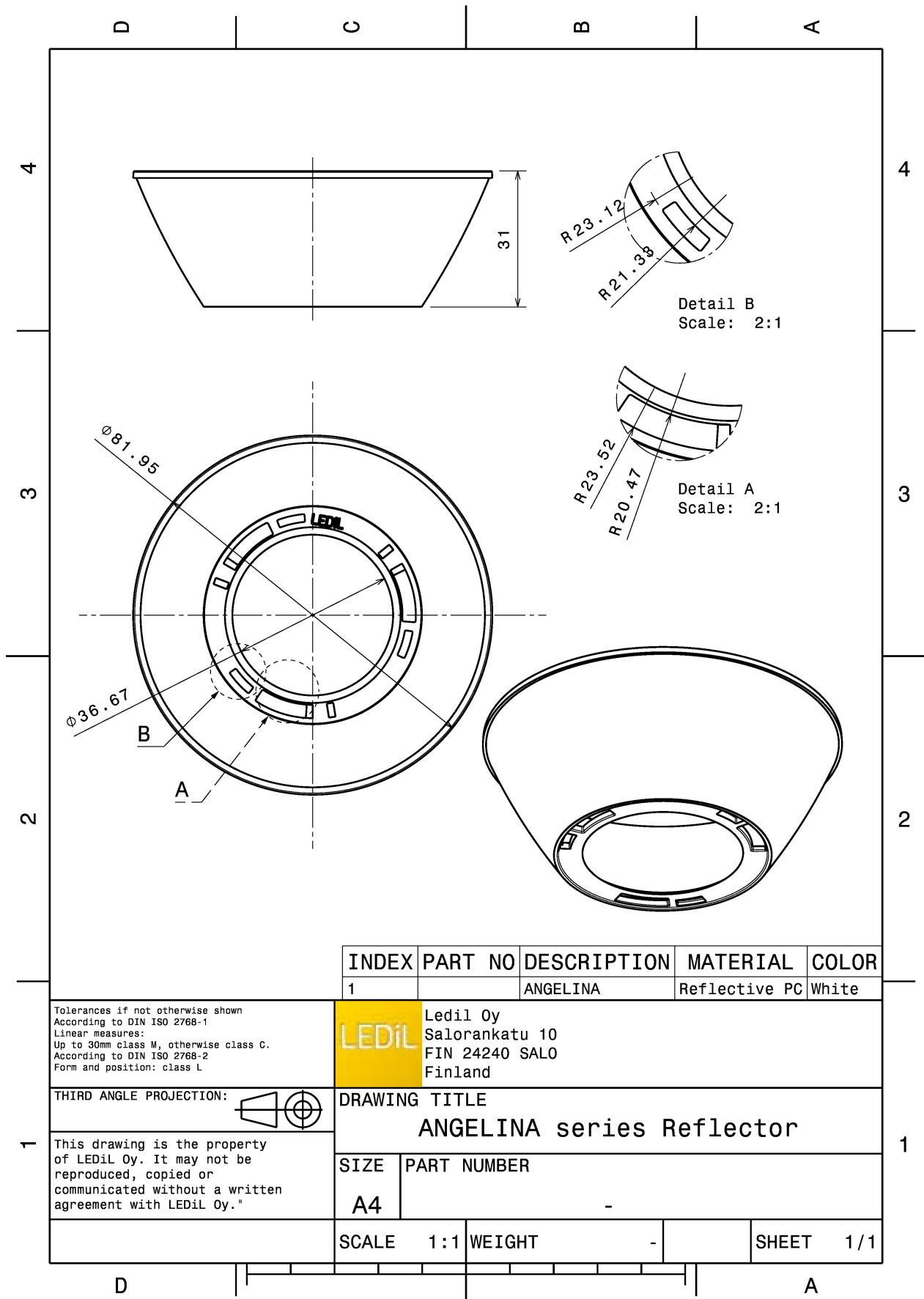
MATERIALS:

Component	Type	Material	Colour	Finish	Coating
ANGELINA-XW	Reflector	HRPC	white		



ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
F13838_ANGELINA-XW » Box size: 480 x 280 x 300 mm	900	120	60	12.3

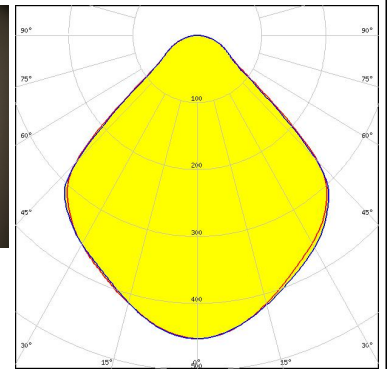
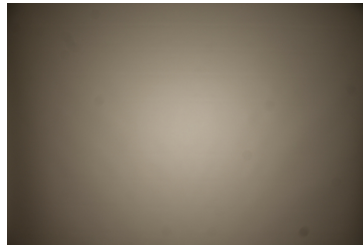


See also our general installation guide: www.ledil.com/installation_guide

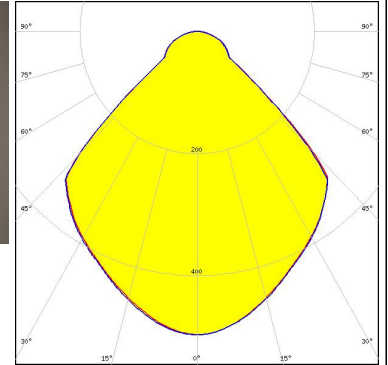
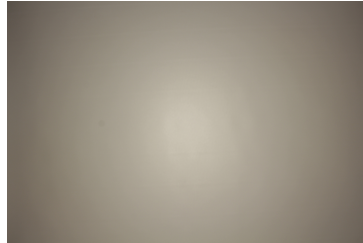
OPTICAL RESULTS (MEASURED):



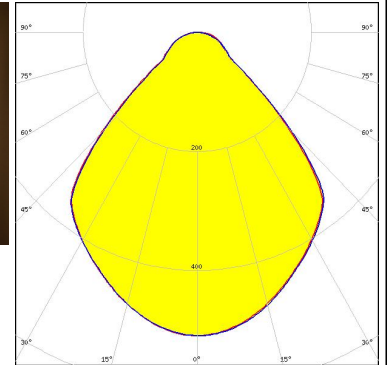
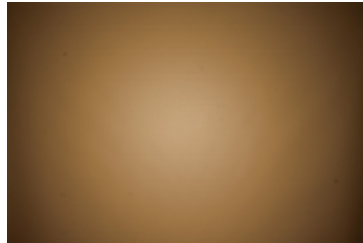
LED V10 Gen7
 FWHM / FWTM 93.0° / 132.0°
 Efficiency 89 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13658_CLAMP-VERO13-18
 F13671_ANGE-RZ-LENS
 Bender Wirth: 434 Typ L1



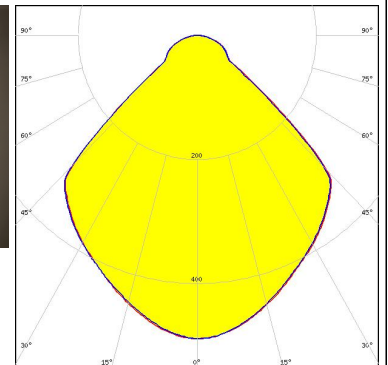
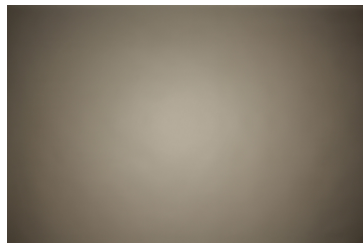
LED V13 Gen7
 FWHM / FWTM 92.0° / 130.0°
 Efficiency 94 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE Connectivity: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



LED V22 Gen6
 FWHM / FWTM 88.0° / 126.0°
 Efficiency 94 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 IDEAL: 50-2204-CT + 50-2100AN



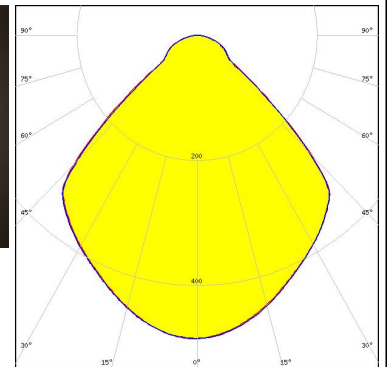
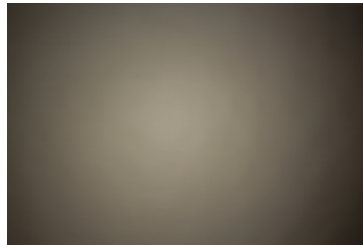
LED Vero SE 13
 FWHM / FWTM 94.0° / 131.0°
 Efficiency 94 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C16402_CLAMP-VEROSE-13-18



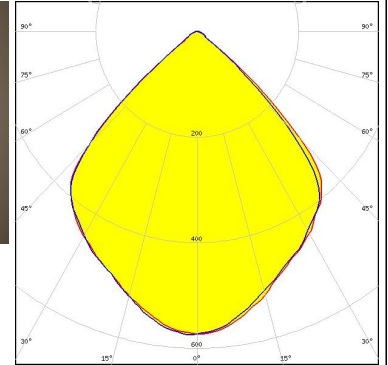
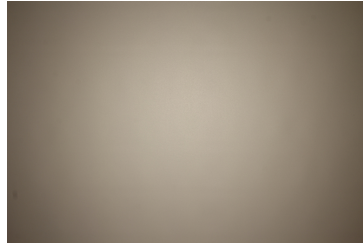
OPTICAL RESULTS (MEASURED):



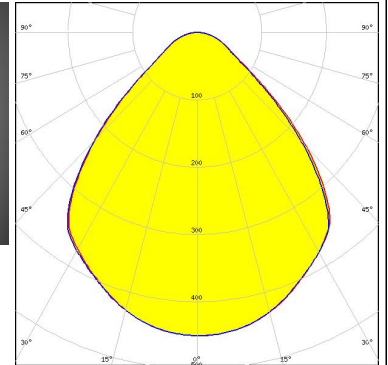
LED Vero SE 18
FWHM / FWTM 93.0° / 131.0°
Efficiency 94 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C16402_CLAMP-VEROSE-13-18



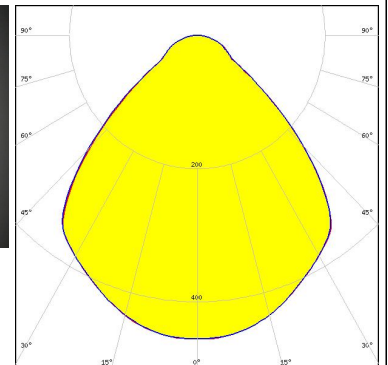
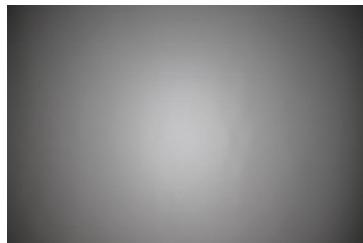
LED VERO18
FWHM / FWTM 90.0° / 106.0°
Efficiency 94 %
Peak intensity 0.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18



LED VERO29
FWHM / FWTM 90.0° / 133.0°
Efficiency 91 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13584_CLAMP-VERO29
F13671_ANGE-RZ-LENS



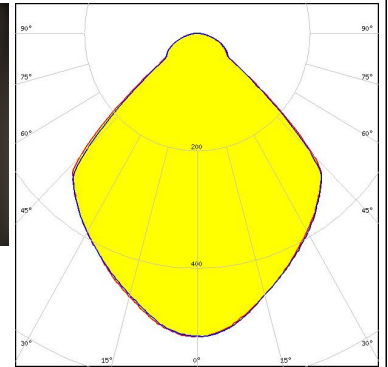
LED VERO29
FWHM / FWTM 91.0° / 134.0°
Efficiency 93 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13584_CLAMP-VERO29



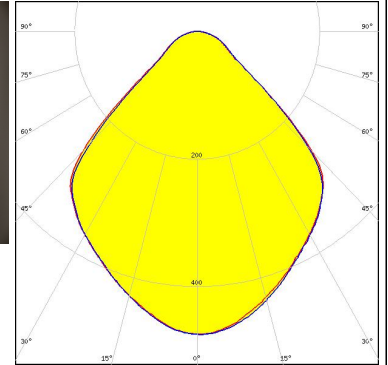
OPTICAL RESULTS (MEASURED):



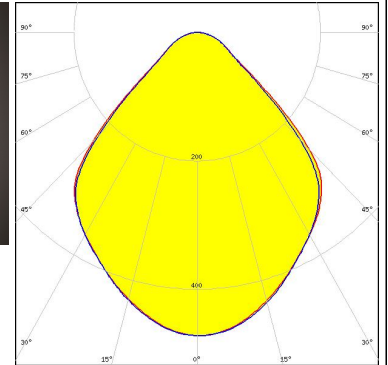
LED Vesta TW 15mm DP
 FWHM / FWTM 92.0° / 129.0°
 Efficiency 96 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour Tunable White
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 482 Typ L2



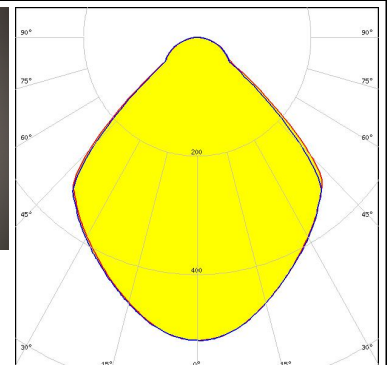
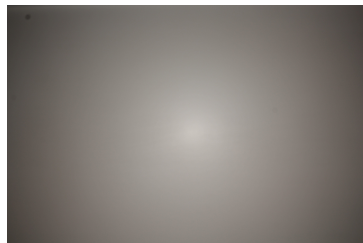
LED Vesta TW 15mm DP
 FWHM / FWTM 92.0° / 130.0°
 Efficiency 91 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour Tunable White
 Required components:
 C13658_CLAMP-VERO13-18
 F13671_ANGE-RZ-LENS
 Bender Wirth: 482 Typ L2



LED Vesta TW 18mm (31W) DP
 FWHM / FWTM 90.0° / 130.0°
 Efficiency 90 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour Tunable White
 Required components:
 C13584_CLAMP-VERO29
 F13671_ANGE-RZ-LENS
 Bender Wirth: 483 Typ L3



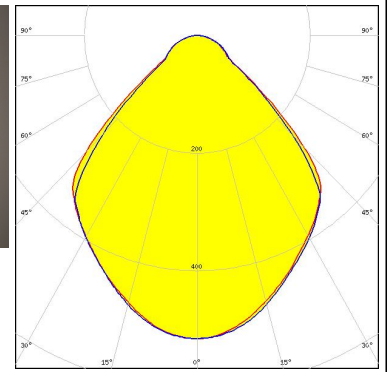
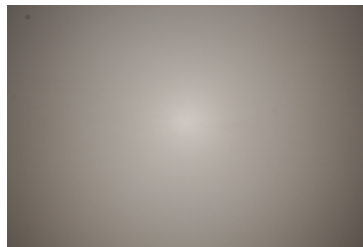
LED Vesta TW 18mm (31W) DP
 FWHM / FWTM 91.0° / 128.0°
 Efficiency 96 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour Tunable White
 Required components:
 C13584_CLAMP-VERO29
 Bender Wirth: 483 Typ L3



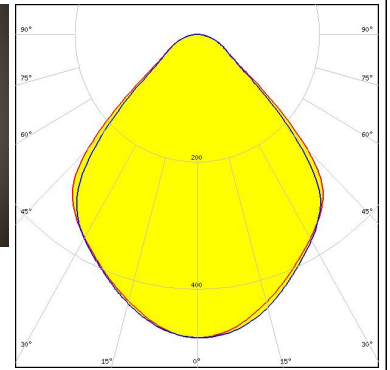
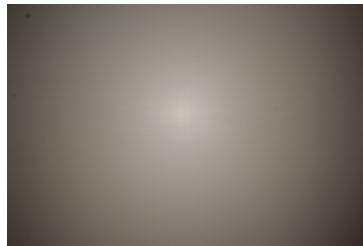
OPTICAL RESULTS (MEASURED):



LED Vesta TW 22mm DP
FWHM / FWTM 90.0° / 127.0°
Efficiency 96 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour Tunable White
Required components:
C13584_CLAMP-VERO29
Bender Wirth: 494 Typ L3

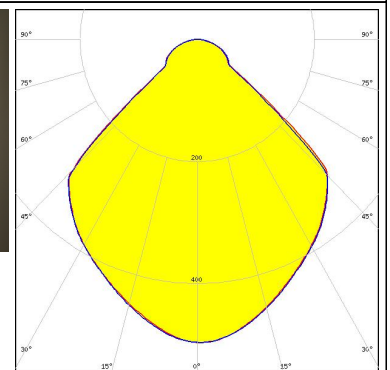
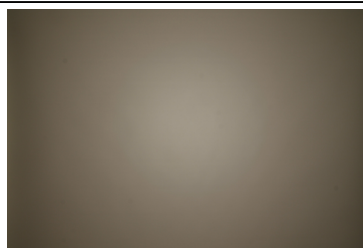


LED Vesta TW 22mm DP
FWHM / FWTM 90.0° / 129.0°
Efficiency 91 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour Tunable White
Required components:
C13584_CLAMP-VERO29
F13671_ANGE-RZ-LENS
Bender Wirth: 494 Typ L3



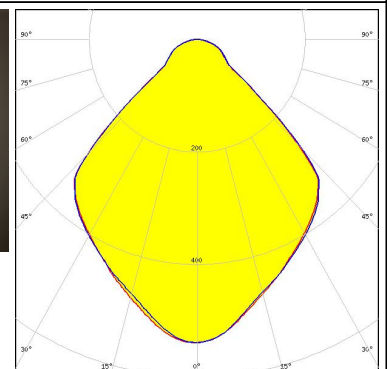
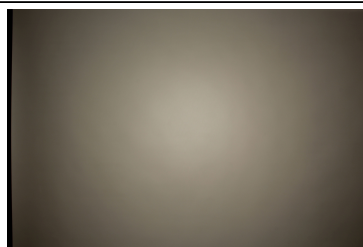
CITIZEN

LED CLL02x/CLU02x (LES10)
FWHM / FWTM 94.0° / 130.0°
Efficiency 95 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 434 Typ L1



CITIZEN

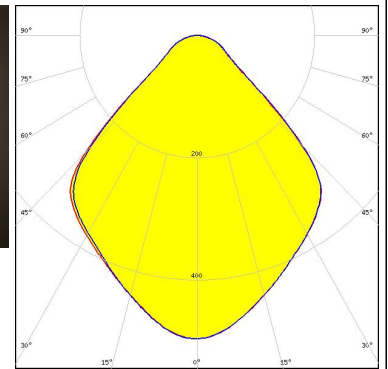
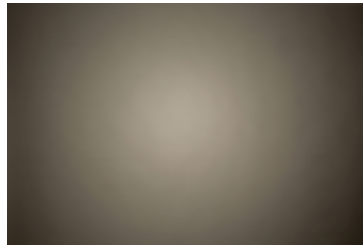
LED CLL03x/CLU03x
FWHM / FWTM 90.0° / 124.0°
Efficiency 94 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C16791_CLAMP-Z45-A
TE Connectivity: 2325807-3



OPTICAL RESULTS (MEASURED):

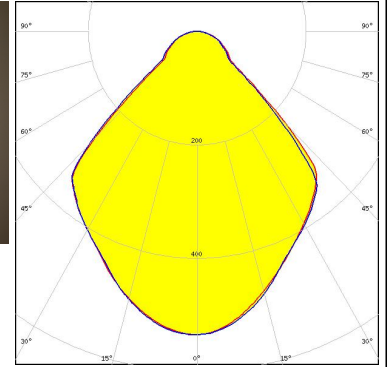
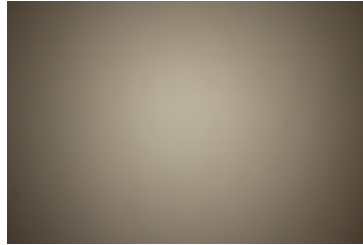
CITIZEN

LED CLL03x/CLU03x
 FWHM / FWTM 91.0° / 128.0°
 Efficiency 92 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C16791_CLAMP-Z45-A
 F13671_ANGE-RZ-LENS
 TE Connectivity: 2325807-3



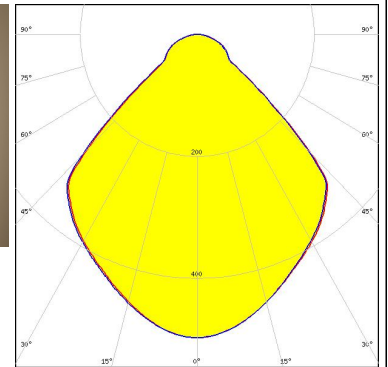
CITIZEN

LED CLL03x/CLU03x
 FWHM / FWTM 89.0° / 125.0°
 Efficiency 94 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 IDEAL: 50-2103CT + 50-2100AN



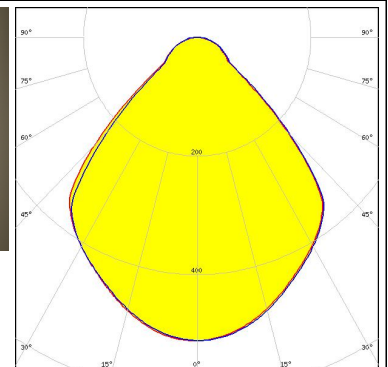
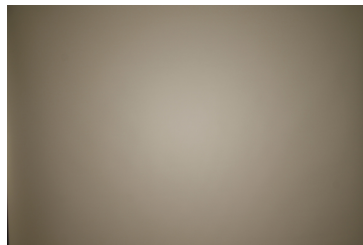
CITIZEN

LED CLL03x/CLU03x
 FWHM / FWTM 91.0° / 130.0°
 Efficiency 94 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE Connectivity: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



CITIZEN

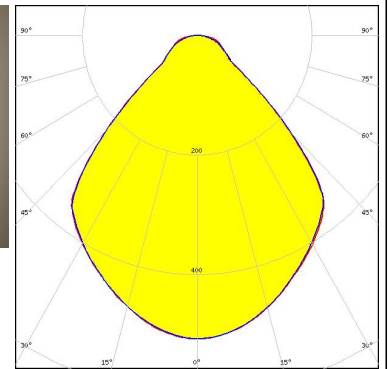
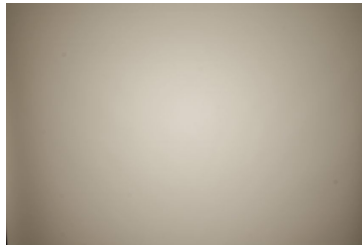
LED CLL04x/CLU04x
 FWHM / FWTM 88.0° / 125.0°
 Efficiency 95 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13584_CLAMP-VERO29
 Bender Wirth: 431 Typ L3



OPTICAL RESULTS (MEASURED):

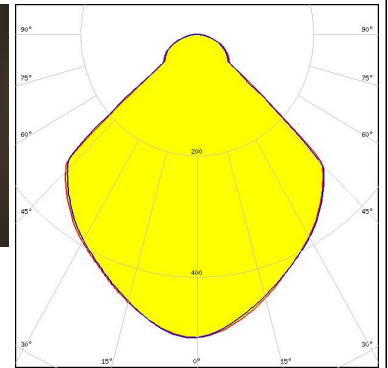
CITIZEN

LED CLL04x/CLU04x
FWHM / FWTM 88.0° / 126.0°
Efficiency 94 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2204-CT + 50-2100AN



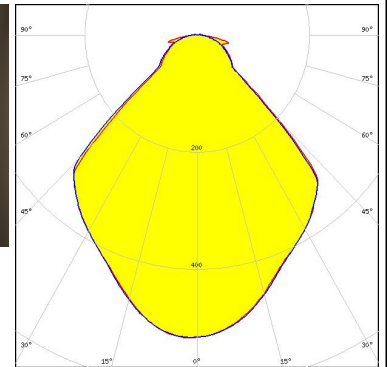
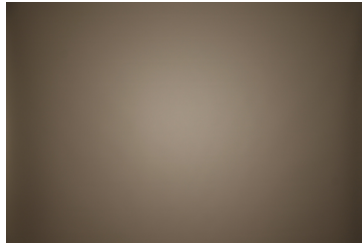
CITIZEN

LED CLU700/701/702/703
FWHM / FWTM 95.0° / 130.0°
Efficiency 95 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 434 Typ L1



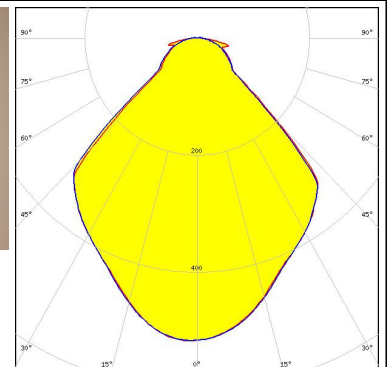
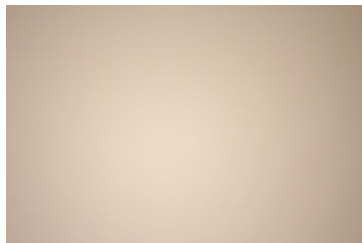
CITIZEN

LED CLU720/721/723
FWHM / FWTM 89.0° / 125.0°
Efficiency 94 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2103CT + 50-2100AN



CITIZEN

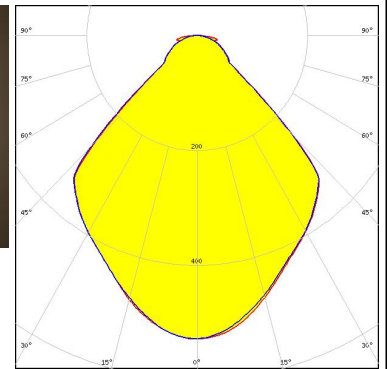
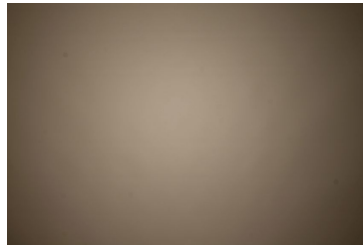
LED CLU720/721/723
FWHM / FWTM 93.0° / 137.0°
Efficiency 94 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE Connectivity: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



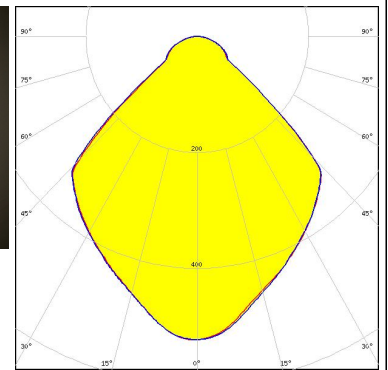
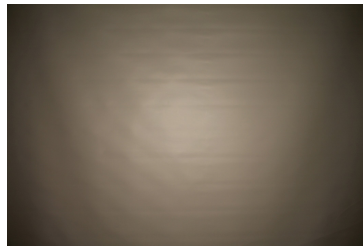
OPTICAL RESULTS (MEASURED):

CITIZEN

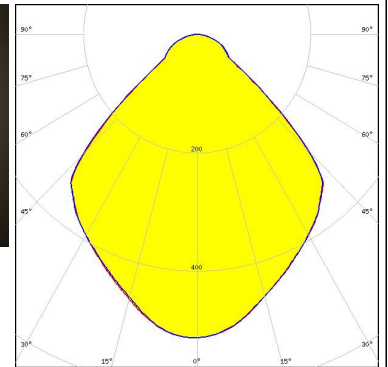
LED CLU730/731/733
 FWHM / FWTM 90.0° / 126.0°
 Efficiency 94 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 IDEAL: 50-2204-CT + 50-2100AN



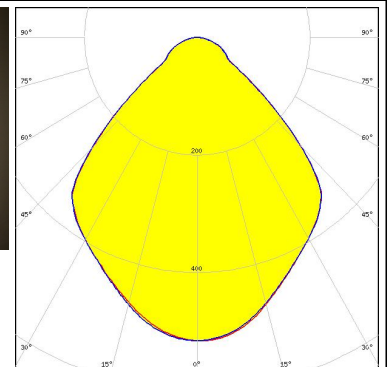
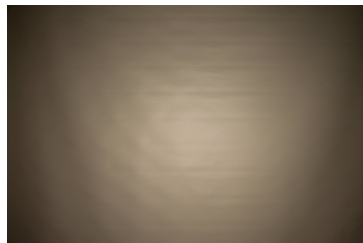
LED CMA1840
 FWHM / FWTM 93.0° / 129.0°
 Efficiency 97 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C14123_CLAMP-CXA15-18



LED CMA2550
 FWHM / FWTM 92.0° / 130.0°
 Efficiency 94 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C14036_CLAMP_CXA25-30



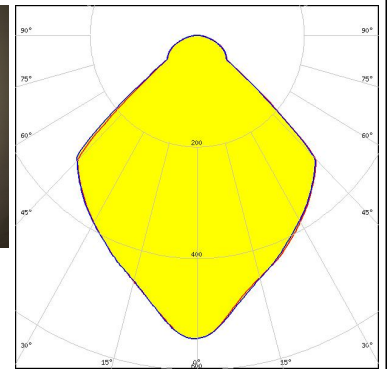
LED CMA3090
 FWHM / FWTM 90.0° / 129.0°
 Efficiency 97 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C14036_CLAMP_CXA25-30



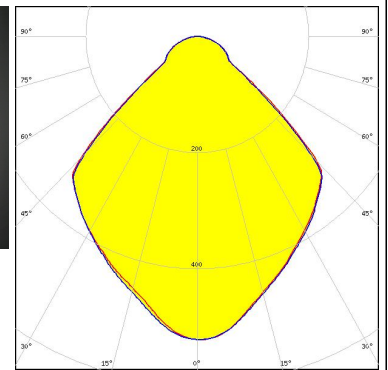
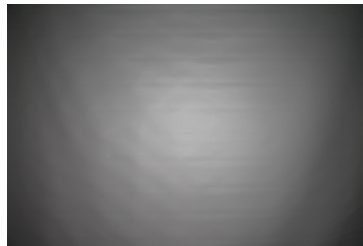
OPTICAL RESULTS (MEASURED):



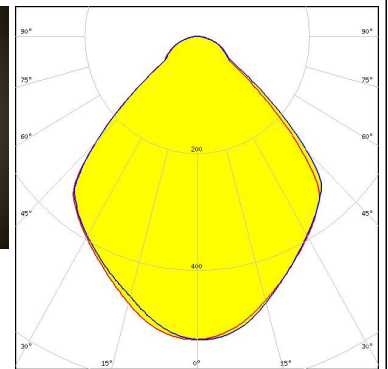
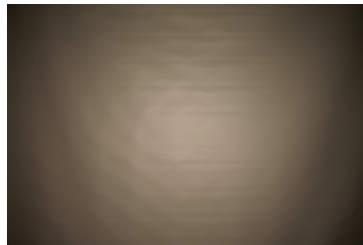
LED CMT14xx
FWHM / FWTM 93.0° / 127.0°
Efficiency 94 %
Peak intensity 0.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 434 Typ L1



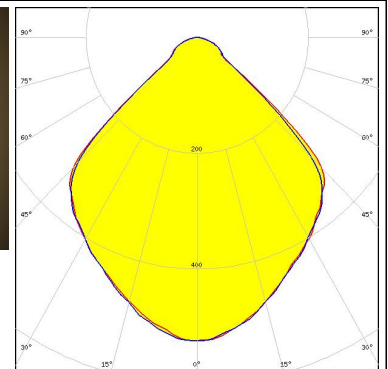
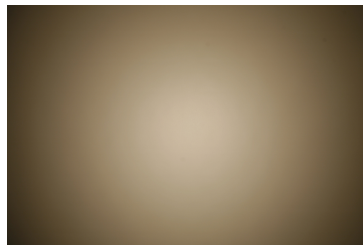
LED CMT19xx
FWHM / FWTM 92.0° / 130.0°
Efficiency 94 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 477 Typ L1



LED CMT28xx
FWHM / FWTM 89.0° / 127.0°
Efficiency 96 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13584_CLAMP-VERO29
Bender Wirth: 471 Typ L3



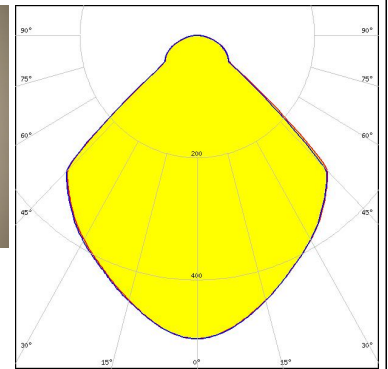
LED CXA/B 15xx
FWHM / FWTM 94.0° / 115.0°
Efficiency 94 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14123_CLAMP-CXA15-18



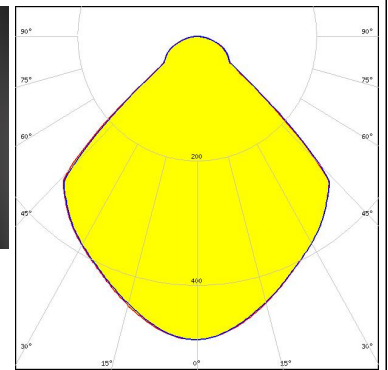
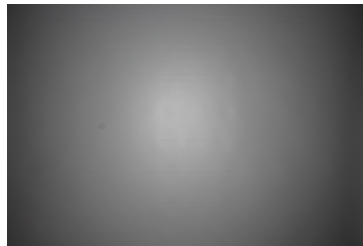
OPTICAL RESULTS (MEASURED):



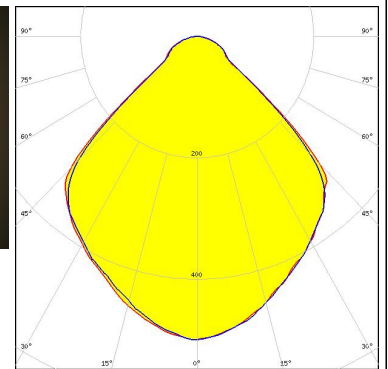
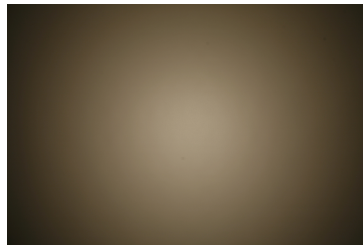
LED CXA/B 15xx
FWHM / FWTM 94.0° / 130.0°
Efficiency 94 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 441 Typ L1



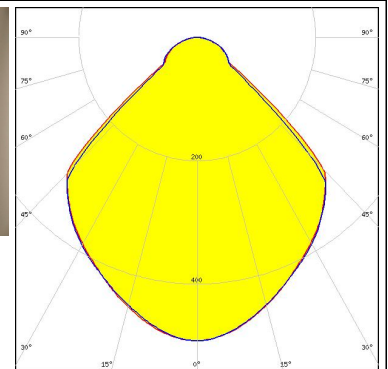
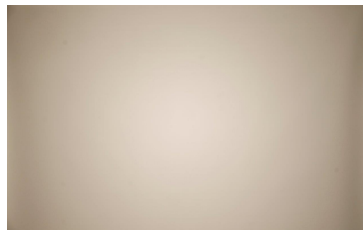
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM / FWTM 93.0° / 132.0°
Efficiency 94 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE Connectivity: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1



LED CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM / FWTM 94.0° / 128.0°
Efficiency 94 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14123_CLAMP-CXA15-18



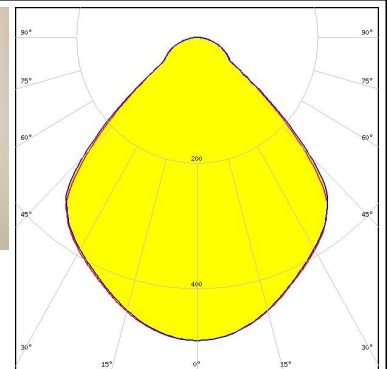
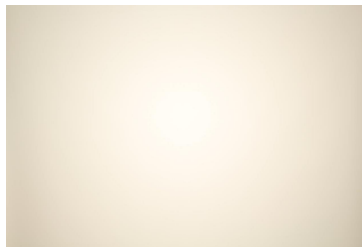
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM / FWTM 94.0° / 130.0°
Efficiency 94 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 437 Typ L1



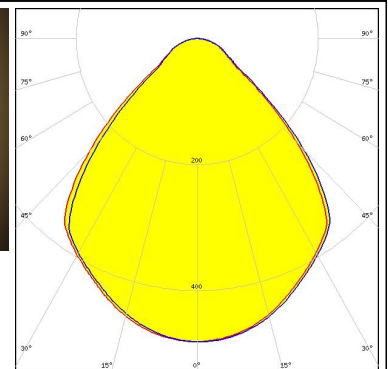
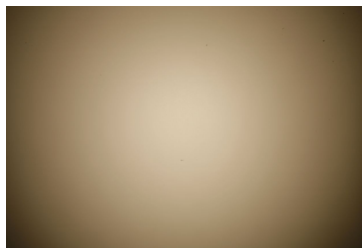
OPTICAL RESULTS (MEASURED):



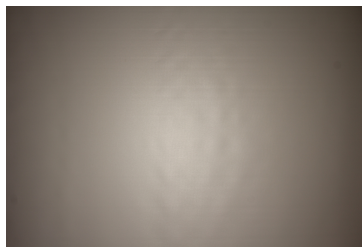
LED CXA/B 30xx
FWHM / FWTM 91.0° / 131.0°
Efficiency 94 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14036_CLAMP_CXA25-30



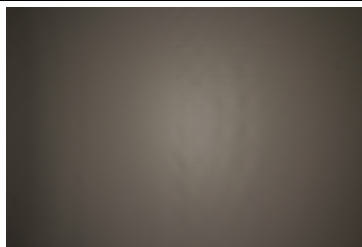
LED CXA/B 3590
FWHM / FWTM 90.0° / 131.0°
Efficiency 94 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2303CR + 50-2300AN



LED CHI3030 19W
FWHM / FWTM 88.0° / 132.0°
Efficiency 91 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13584_CLAMP-VERO29
F13671_ANGE-RZ-LENS
Bender Wirth: 468 Typ L3



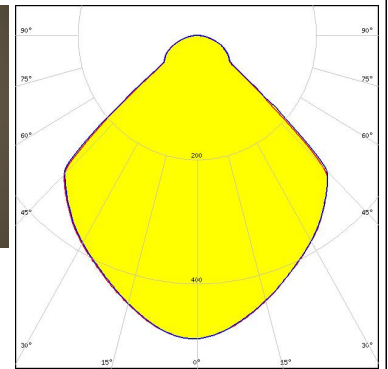
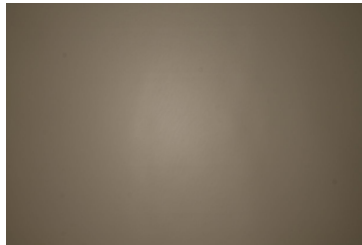
LED CHI3030 29W
FWHM / FWTM 89.0° / 132.0°
Efficiency 91 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13584_CLAMP-VERO29
F13671_ANGE-RZ-LENS
Bender Wirth: 468 Typ L3



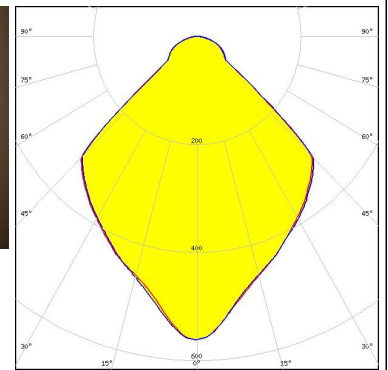
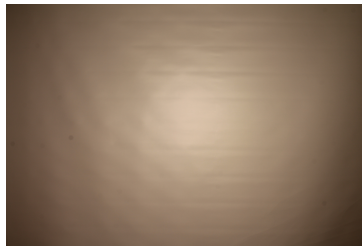
OPTICAL RESULTS (MEASURED):



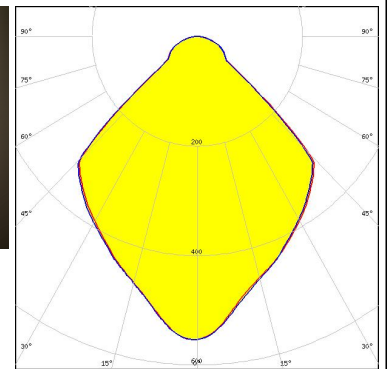
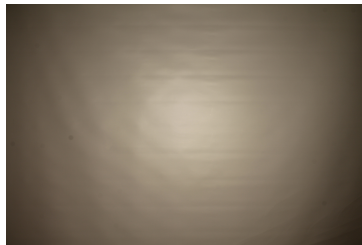
LED LUXEON CoB 1202/1203
 FWHM / FWTM 95.0° / 131.0°
 Efficiency 94 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 438 Typ L1



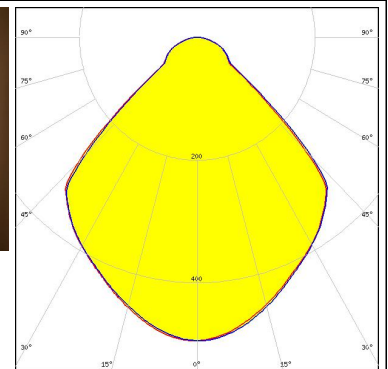
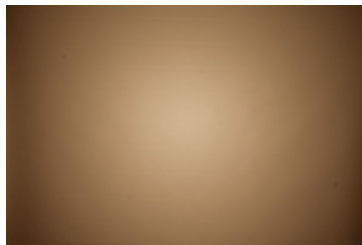
LED LUXEON CoB 1204HD
 FWHM / FWTM 92.0° / 124.0°
 Efficiency 96 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE Connectivity: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



LED LUXEON CoB 1205HD
 FWHM / FWTM 92.0° / 125.0°
 Efficiency 96 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE Connectivity: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



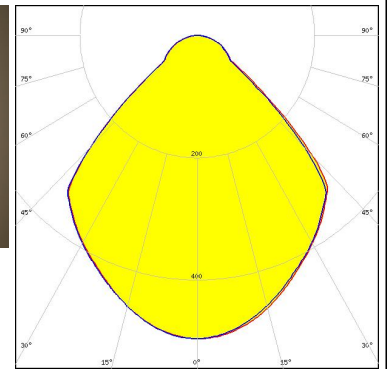
LED LUXEON CoB 1208
 FWHM / FWTM 92.0° / 131.0°
 Efficiency 94 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



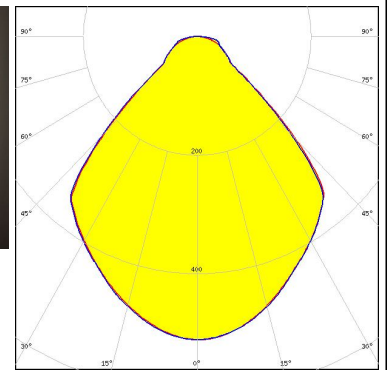
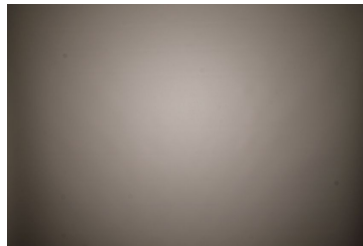
OPTICAL RESULTS (MEASURED):



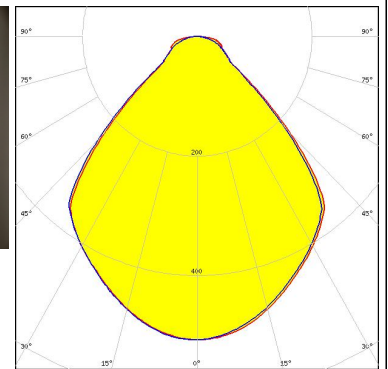
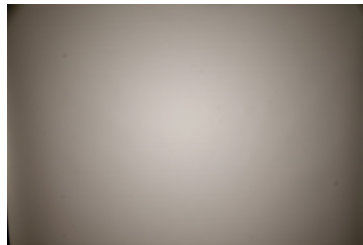
LED LUXEON CoB 1211
 FWHM / FWTM 91.0° / 129.0°
 Efficiency 94 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13584_CLAMP-VERO29
 Bender Wirth: 431 Typ L3



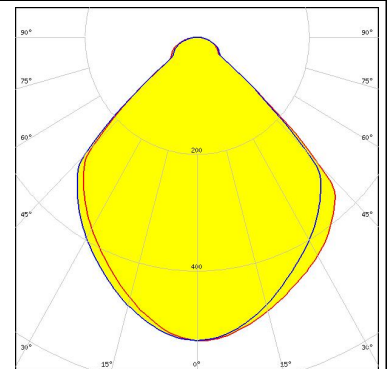
LED LUXEON CoB 1211
 FWHM / FWTM 89.0° / 127.0°
 Efficiency 94 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 IDEAL: 50-2204-CT + 50-2100AN



LED LUXEON CoB 1213/1216/1812
 FWHM / FWTM 88.0° / 127.0°
 Efficiency 94 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 IDEAL: 50-2204-CT + 50-2100AN



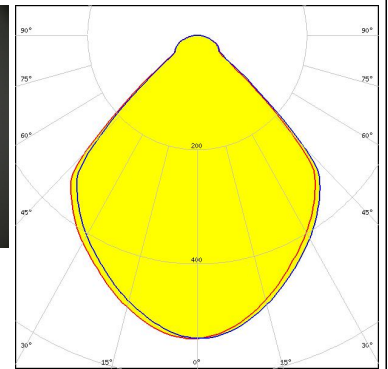
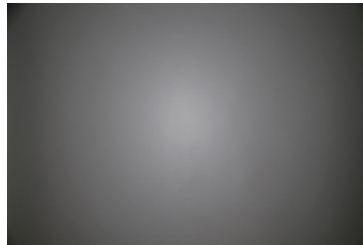
LED LUXEON K12
 FWHM / FWTM 92.0° / 110.0°
 Efficiency 94 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE Connectivity: 2213134-2 + OPTIC CLIP Z50 TYPE1 2213194-1



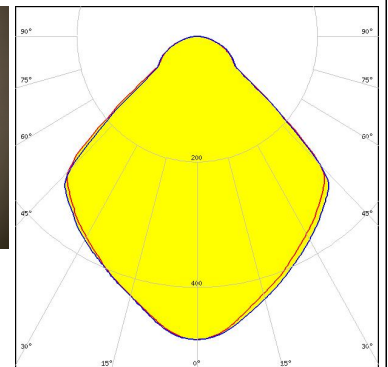
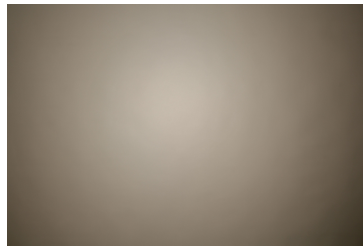
OPTICAL RESULTS (MEASURED):



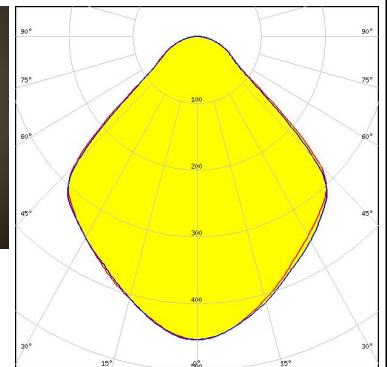
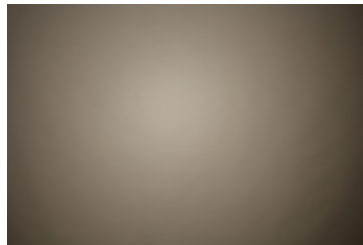
LED LUXEON K16
FWHM / FWTM 90.0° / 107.0°
Efficiency 94 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2070



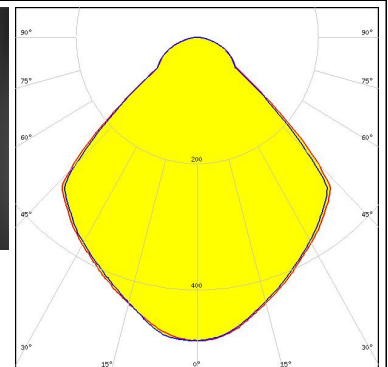
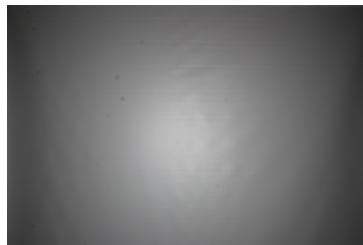
LED CDM-14 (Dim-To-Warm)
FWHM / FWTM 94.0° / 136.0°
Efficiency 95 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 491 Typ L2



LED CDM-14 (Dim-To-Warm)
FWHM / FWTM 94.0° / 135.0°
Efficiency 90 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
F13671_ANGE-RZ-LENS
Bender Wirth: 491 Typ L2



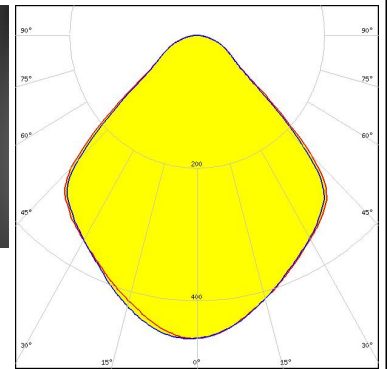
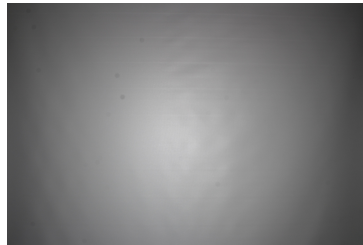
LED CDM-18 (Dim-To-Warm)
FWHM / FWTM 93.0° / 137.0°
Efficiency 94 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 491 Typ L2



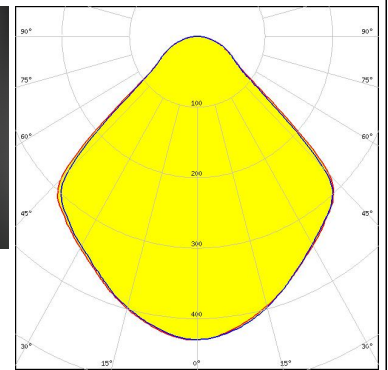
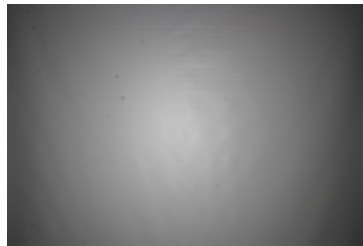
OPTICAL RESULTS (MEASURED):



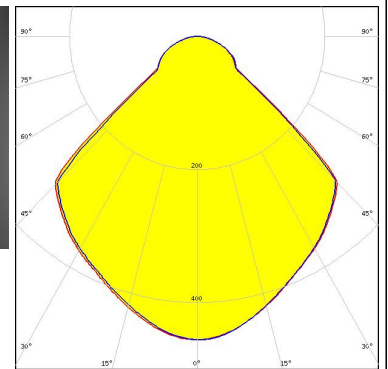
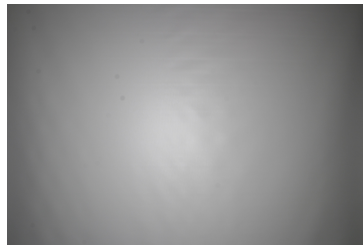
LED CDM-18 (Dim-To-Warm)
 FWHM / FWTM 93.0° / 135.0°
 Efficiency 91 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13658_CLAMP-VERO13-18
 F13671_ANGE-RZ-LENS
 Bender Wirth: 491 Typ L2



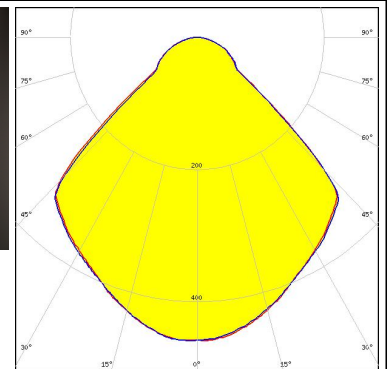
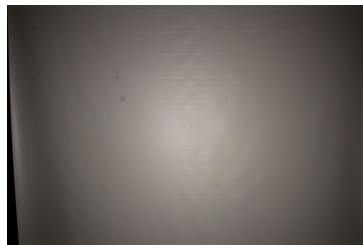
LED CDM-9 (Dim-To-Warm)
 FWHM / FWTM 95.0° / 136.0°
 Efficiency 89 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13658_CLAMP-VERO13-18
 F13671_ANGE-RZ-LENS
 Bender Wirth: 490 Typ L1



LED CDM-9 (Dim-To-Warm)
 FWHM / FWTM 95.0° / 138.0°
 Efficiency 94 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 490 Typ L1



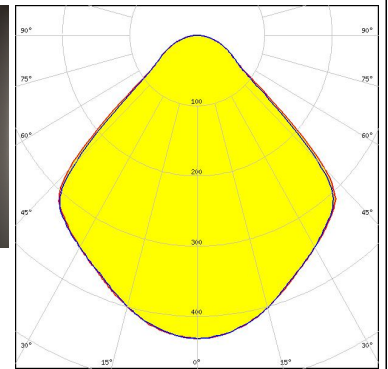
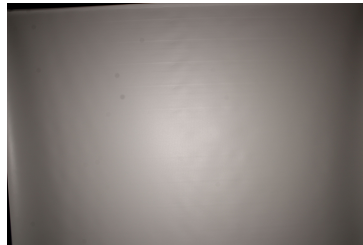
LED CTM-14 (Tunable White)
 FWHM / FWTM 94.0° / 137.0°
 Efficiency 94 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13584_CLAMP-VERO29
 Bender Wirth: 442 Typ L3



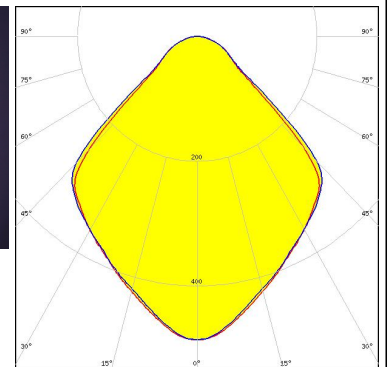
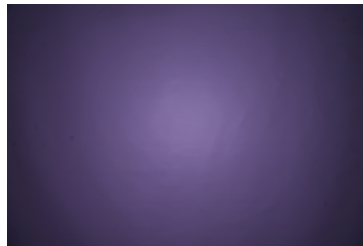
OPTICAL RESULTS (MEASURED):



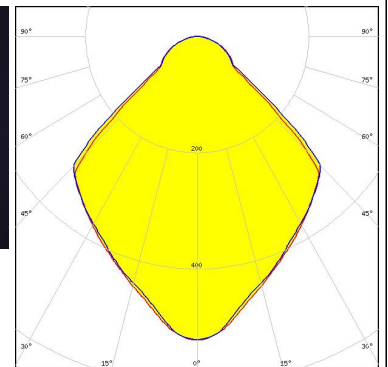
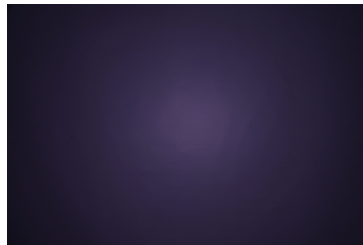
LED CTM-14 (Tunable White)
 FWHM / FWTM 94.0° / 136.0°
 Efficiency 88 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13584_CLAMP-VERO29
 F13671_ANGE-RZ-LENS
 Bender Wirth: 442 Typ L3



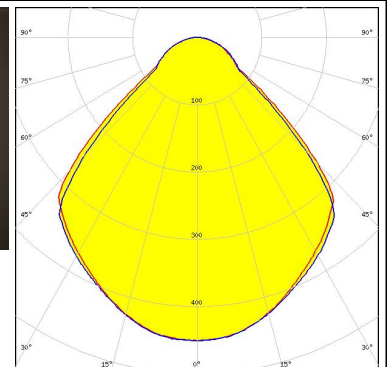
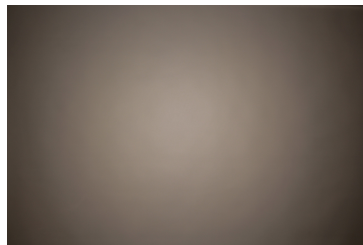
LED CTM-14 RGBW
 FWHM / FWTM 92.0° / 132.0°
 Efficiency 91 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour RGBW
 Required components:
 C13584_CLAMP-VERO29
 F13671_ANGE-RZ-LENS
 Bender Wirth: 500 Typ L3-1



LED CTM-14 RGBW
 FWHM / FWTM 93.0° / 132.0°
 Efficiency 95 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour RGBW
 Required components:
 C13584_CLAMP-VERO29
 Bender Wirth: 500 Typ L3-1



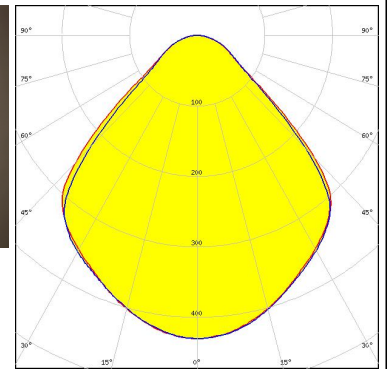
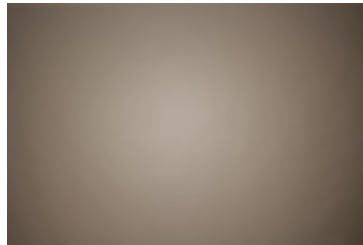
LED CTM-22 (Tunable White)
 FWHM / FWTM 93.0° / 137.0°
 Efficiency 93 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13584_CLAMP-VERO29
 Bender Wirth: 494 Typ L3



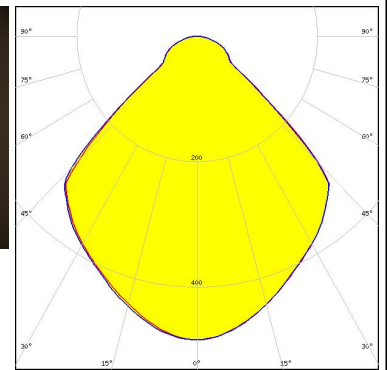
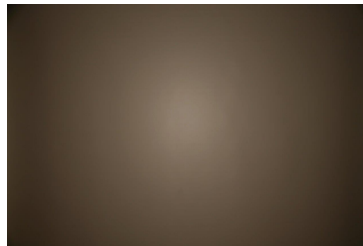
OPTICAL RESULTS (MEASURED):



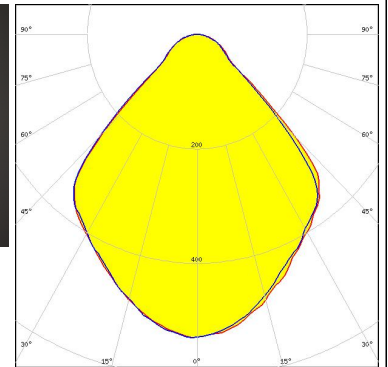
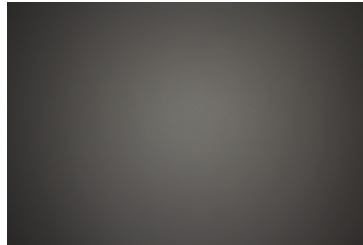
LED CTM-22 (Tunable White)
 FWHM / FWTM 92.0° / 136.0°
 Efficiency 88 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13584_CLAMP-VERO29
 F13671_ANGE-RZ-LENS
 Bender Wirth: 494 Typ L3



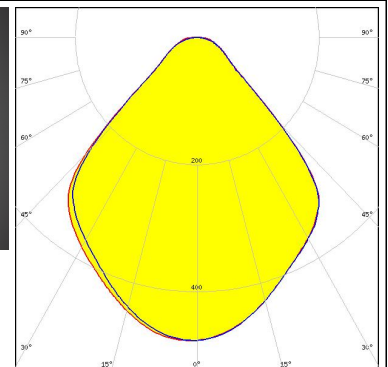
LED CxM-14 (19x19)
 FWHM / FWTM 93.0° / 134.0°
 Efficiency 94 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE Connectivity: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



LED COB J-Type
 FWHM / FWTM 88.0° / 124.0°
 Efficiency 92 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 IDEAL: 50-2103NC + 50-2100AN



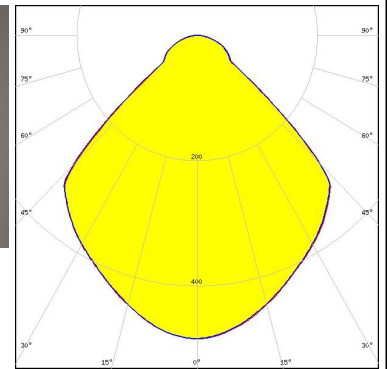
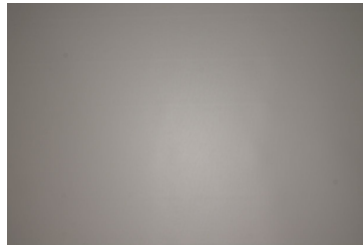
LED COB J-Type
 FWHM / FWTM 89.0° / 129.0°
 Efficiency 90 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGE-RZ-LENS
 IDEAL: 50-2103NC + 50-2100AN



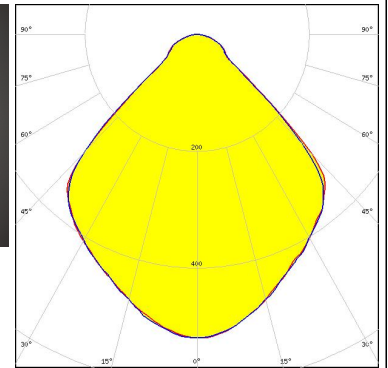
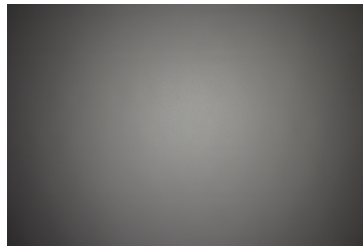
OPTICAL RESULTS (MEASURED):



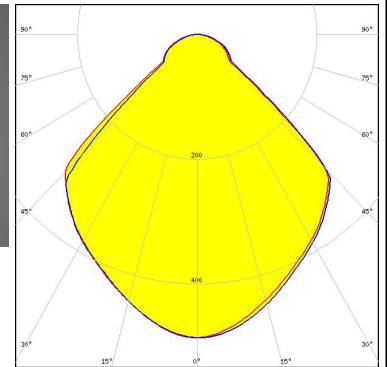
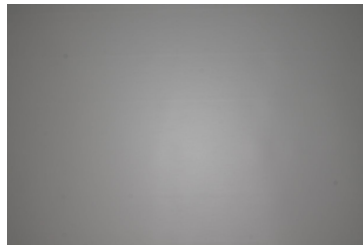
LED COB J-Type
FWHM / FWTM 93.0° / 132.0°
Efficiency 95 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 463 Typ L2



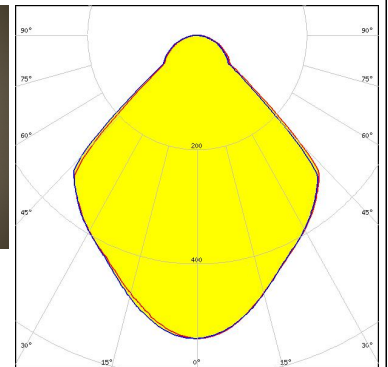
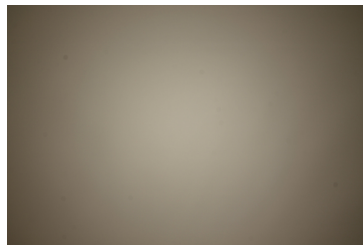
LED COB L-Type (LES 11)
FWHM / FWTM 92.0° / 126.0°
Efficiency 94 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE Connectivity: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



LED COB L-Type (LES 11)
FWHM / FWTM 94.0° / 132.0°
Efficiency 94 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 438 Typ L1



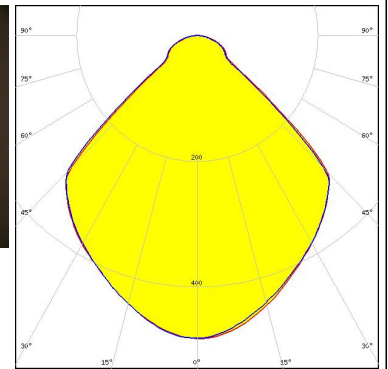
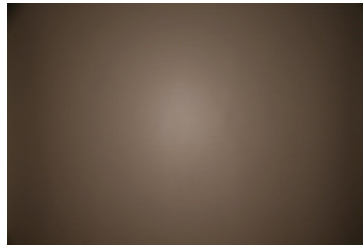
LED COB L-Type (LES 11)
FWHM / FWTM 90.0° / 125.0°
Efficiency 94 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2100NC + 50-2100AN



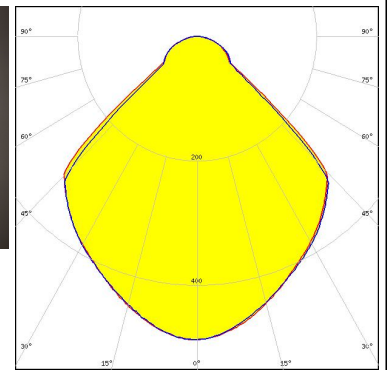
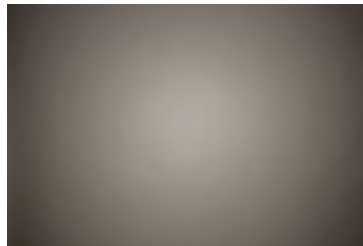
OPTICAL RESULTS (MEASURED):



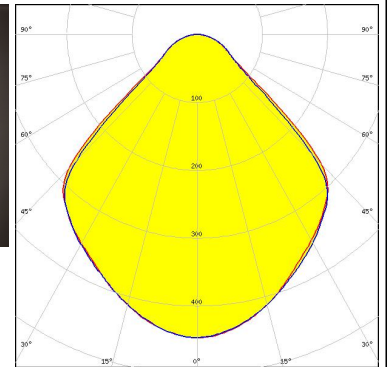
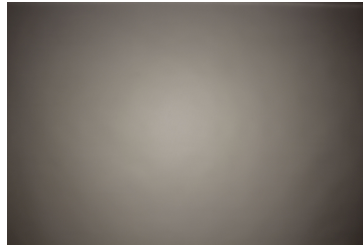
LED COB L-Type (LES 11)
 FWHM / FWTM 94.0° / 130.0°
 Efficiency 94 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 Molex: 180580-0005



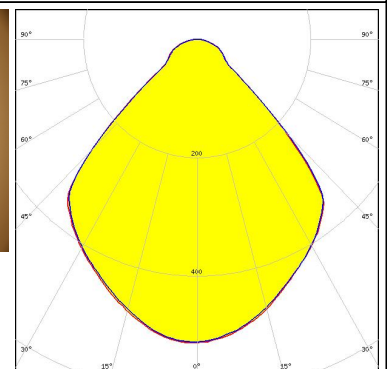
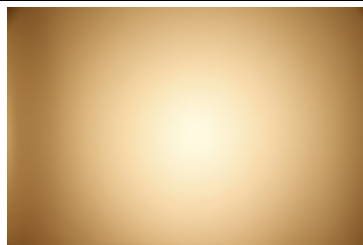
LED NVCWJ024Z-V1MT: COB J-Type Tunable White
 FWHM / FWTM 94.0° / 131.0°
 Efficiency 94 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 498 Typ L2



LED NVCWJ024Z-V1MT: COB J-Type Tunable White
 FWHM / FWTM 94.0° / 132.0°
 Efficiency 89 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13658_CLAMP-VERO13-18
 F13671_ANGE-RZ-LENS
 Bender Wirth: 498 Typ L2



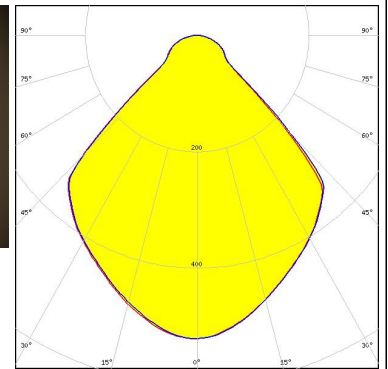
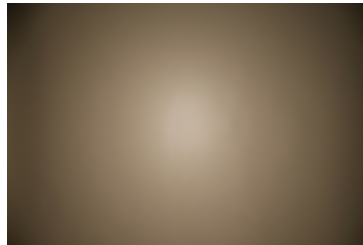
LED PrevaLED Core AC (LEP-2000)
 FWHM / FWTM 89.0° / 125.0°
 Efficiency 94 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



OPTICAL RESULTS (MEASURED):

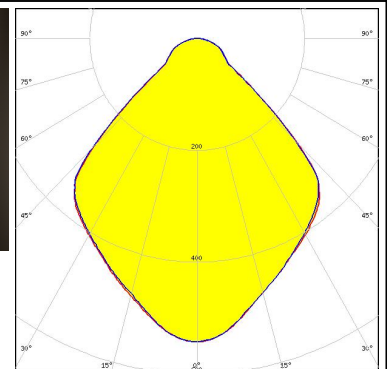
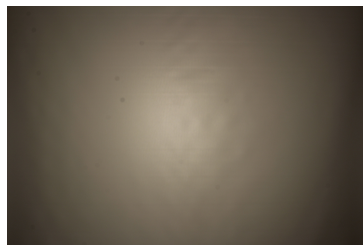
OSRAM

LED PrevaLED Core AC (LEP-800)
 FWHM / FWTM 90.0° / 126.0°
 Efficiency 94 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



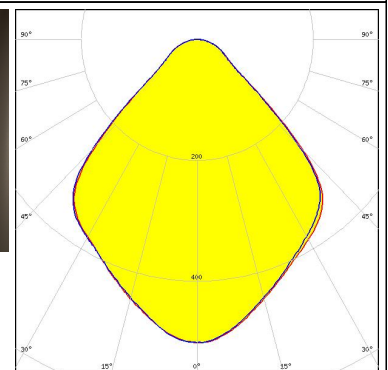
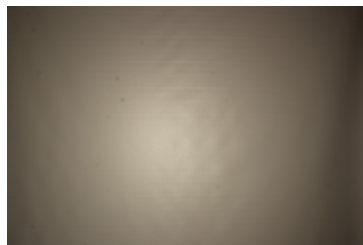
OSRAM

LED PrevaLED Core G7 L15 H1
 FWHM / FWTM 90.0° / 125.0°
 Efficiency 94 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C16685_CLAMP-PRV-A



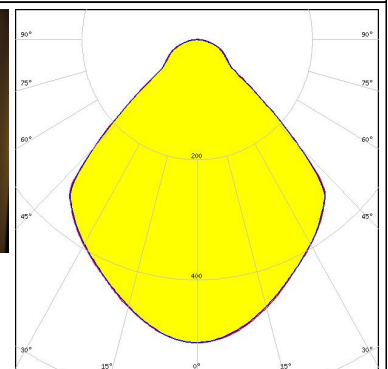
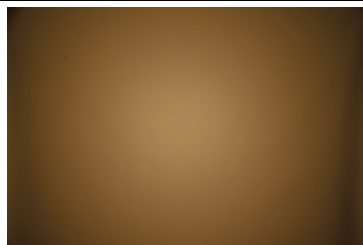
OSRAM

LED PrevaLED Core G7 L15 H1
 FWHM / FWTM 90.0° / 127.0°
 Efficiency 92 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C16685_CLAMP-PRV-A
 F13671_ANGE-RZ-LENS



OSRAM

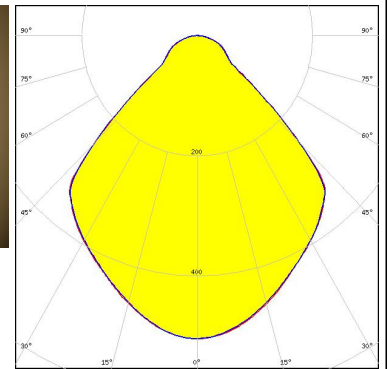
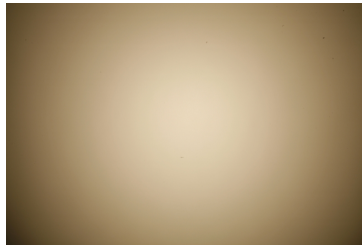
LED PrevaLED Core Z4 LES19
 FWHM / FWTM 90.0° / 129.0°
 Efficiency 90 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGE-RZ-LENS
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



OPTICAL RESULTS (MEASURED):

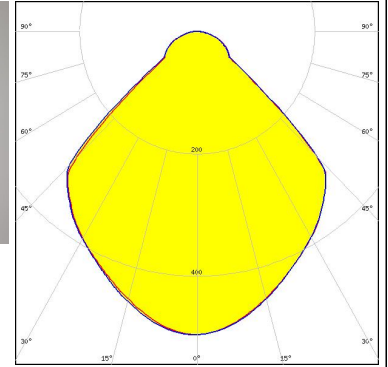
OSRAM

LED PrevaLED Core Z4 LES19
 FWHM / FWTM 90.0° / 129.0°
 Efficiency 94 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



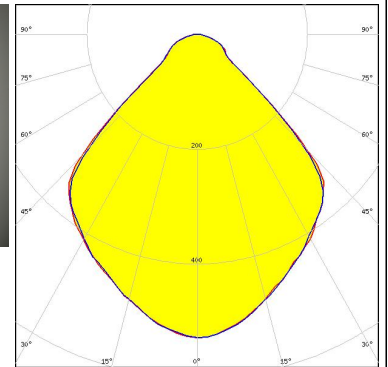
OSRAM

Opto Semiconductors
 LED Soleriq S13
 FWHM / FWTM 93.0° / 130.0°
 Efficiency 94 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 437 Typ L1



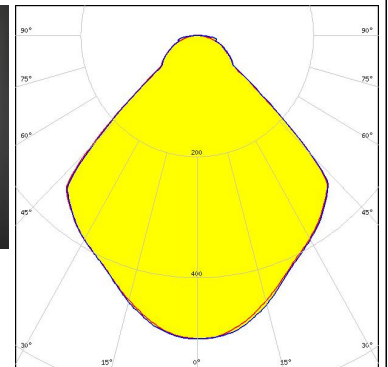
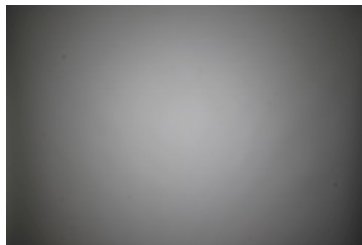
OSRAM

Opto Semiconductors
 LED Soleriq S13
 FWHM / FWTM 92.0° / 128.0°
 Efficiency 94 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE Connectivity: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1



OSRAM

Opto Semiconductors
 LED Soleriq S13 19x19
 FWHM / FWTM 91.0° / 131.0°
 Efficiency 94 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 IDEAL: 50-2103CT + 50-2100AN



OPTICAL RESULTS (MEASURED):

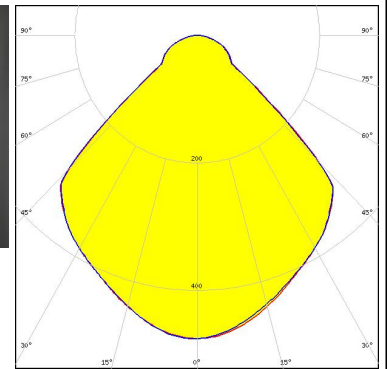
OSRAM

Opto Semiconductors

LED Soleriq S13 19x19
FWHM / FWTM 93.0° / 134.0°
Efficiency 94 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour White

Required components:

TE Connectivity: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



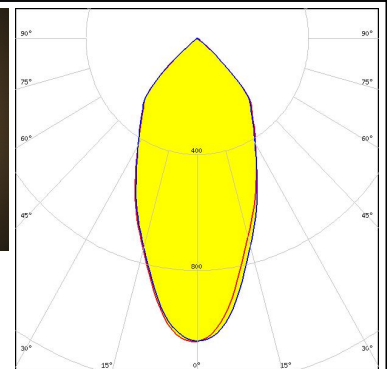
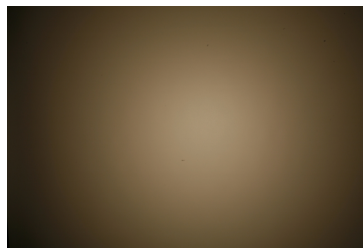
OSRAM

Opto Semiconductors

LED Soleriq S19
FWHM / FWTM 91.0° / 130.0°
Efficiency 94 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour White

Required components:

TE Connectivity: 2213407-2 + OPTIC CLIP Z50 TYPE1 2213194-1



OSRAM

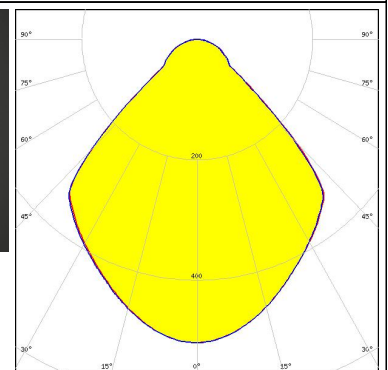
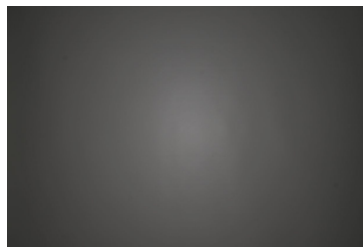
Opto Semiconductors

LED Soleriq S19
FWHM / FWTM 90.0° / 127.0°
Efficiency 93 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour White

Required components:

C13584_CLAMP-VERO29

Bender Wirth: 462 Typ L3

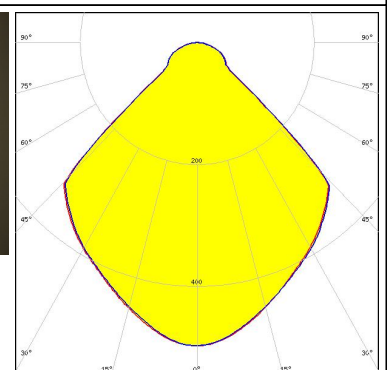
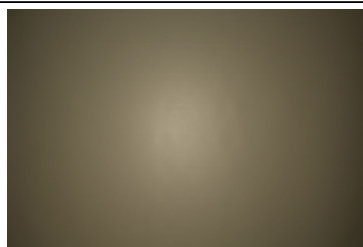


PHILIPS

LED Fortimo SLM L09 + SLM holder
FWHM / FWTM 93.0° / 128.0°
Efficiency 94 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour White

Required components:

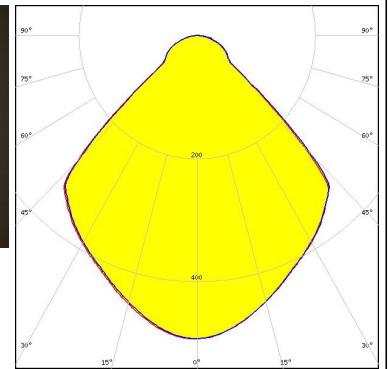
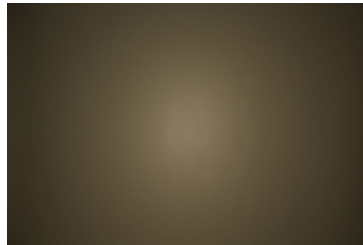
TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



OPTICAL RESULTS (MEASURED):

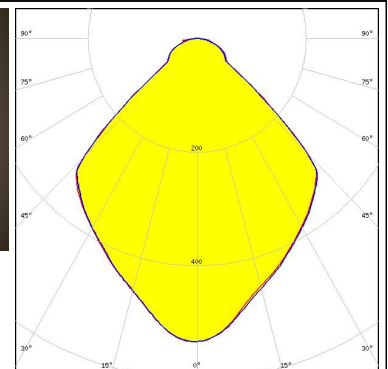
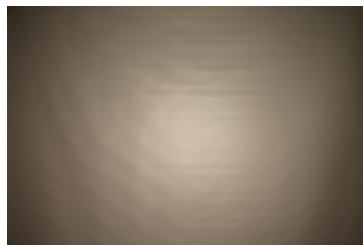
PHILIPS

LED Fortimo SLM L13 + SLM holder
 FWHM / FWTM 92.0° / 131.0°
 Efficiency 94 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



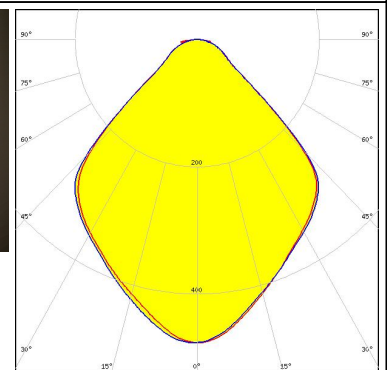
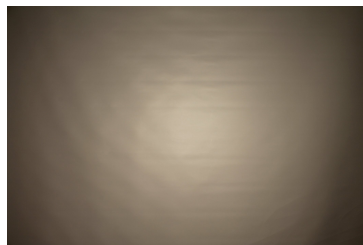
PHILIPS

LED Fortimo SLM L13 CoB
 FWHM / FWTM 92.0° / 127.0°
 Efficiency 94 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



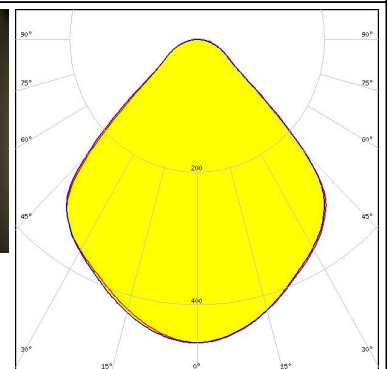
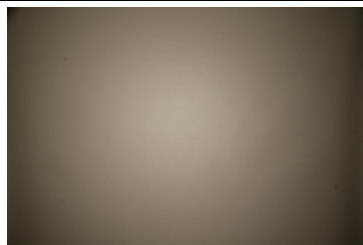
PHILIPS

LED Fortimo SLM L13 CoB
 FWHM / FWTM 91.0° / 128.0°
 Efficiency 88 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGLE-RZ-LENS
 TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



PHILIPS

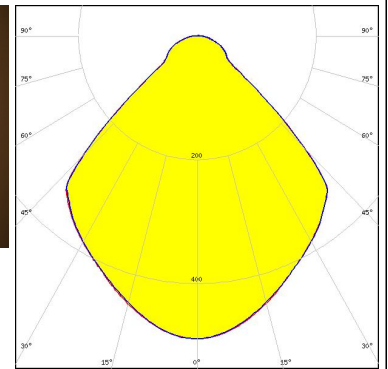
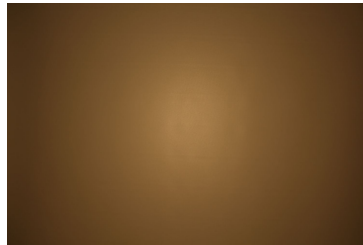
LED Fortimo SLM L15 + SLM holder
 FWHM / FWTM 91.0° / 131.0°
 Efficiency 89 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGLE-RZ-LENS
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



OPTICAL RESULTS (MEASURED):

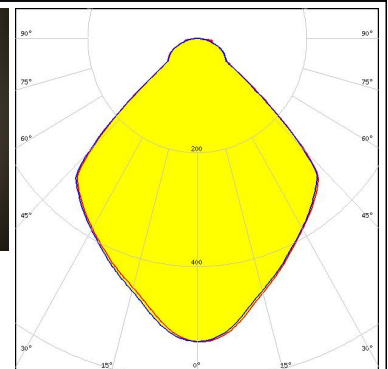
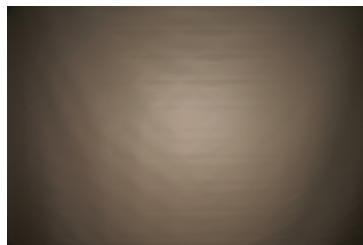
PHILIPS

LED Fortimo SLM L15 + SLM holder
 FWHM / FWTM 91.0° / 129.0°
 Efficiency 92 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



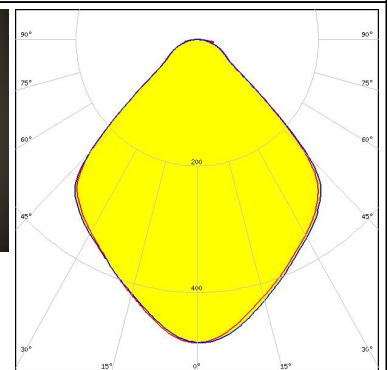
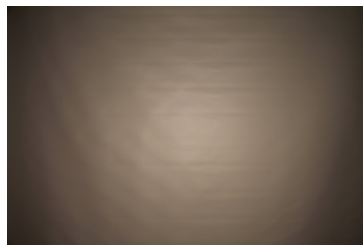
PHILIPS

LED Fortimo SLM L15 CoB
 FWHM / FWTM 91.0° / 127.0°
 Efficiency 94 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



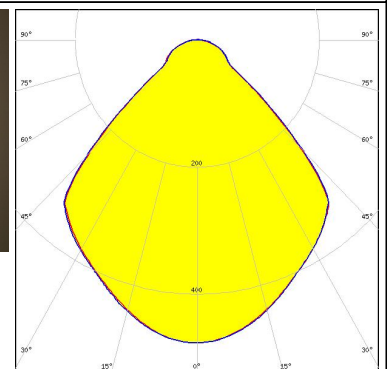
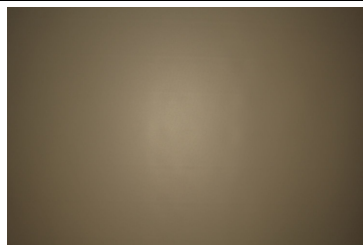
PHILIPS

LED Fortimo SLM L15 CoB
 FWHM / FWTM 91.0° / 128.0°
 Efficiency 89 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGE-RZ-LENS
 TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



PHILIPS

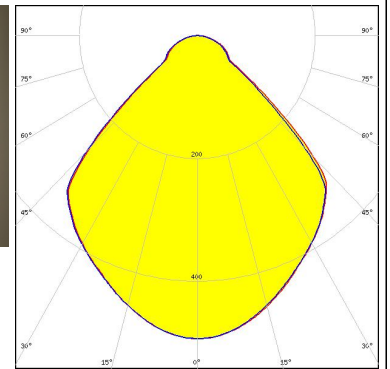
LED Fortimo SLM L19 + SLM holder
 FWHM / FWTM 90.0° / 130.0°
 Efficiency 91 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



OPTICAL RESULTS (MEASURED):

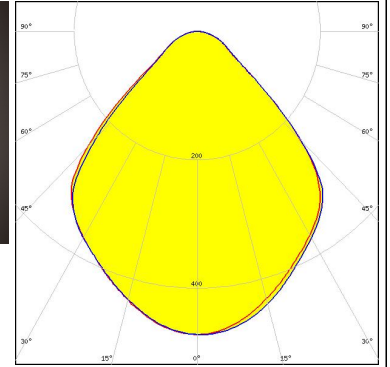
SAMSUNG

LED LC026B / 033B / 040B
 FWHM / FWTM 91.0° / 130.0°
 Efficiency 94 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 450 Typ L2



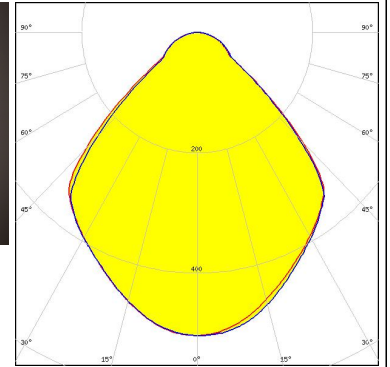
SAMSUNG

LED LC035T (Tunable white)
 FWHM / FWTM 90.0° / 131.0°
 Efficiency 91 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour Tunable White
 Required components:
 C13584_CLAMP-VERO29
 F13671_ANGE-RZ-LENS
 Bender Wirth: 502 Typ L3



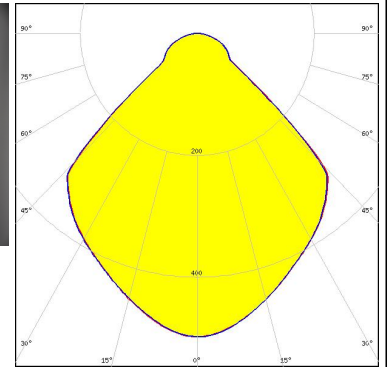
SAMSUNG

LED LC035T (Tunable white)
 FWHM / FWTM 91.0° / 130.0°
 Efficiency 96 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour Tunable White
 Required components:
 C13584_CLAMP-VERO29
 Bender Wirth: 502 Typ L3



SAMSUNG

LED LC040C
 FWHM / FWTM 93.0° / 132.0°
 Efficiency 94 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE Connectivity: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



OPTICAL RESULTS (MEASURED):

SEOUL SEMICONDUCTOR LED AC Zhaga COB FWHM / FWTM 93.0° / 130.0° Efficiency 91 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White Required components: F13671_ANGE-RZ-LENS		
SEOUL SEMICONDUCTOR LED MJT COB LES 14.5 FWHM / FWTM 92.0° / 131.0° Efficiency 94 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White Required components: TE Connectivity: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1		
SEOUL SEMICONDUCTOR LED MJT COB LES 22 FWHM / FWTM 89.0° / 128.0° Efficiency 94 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White Required components: C13584_CLAMP-VERO29 Bender Wirth: 431 Typ L3		
SHARP LED Mega Zenigata (GW6DME) FWHM / FWTM 92.0° / 131.0° Efficiency 94 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White Required components: TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1		

OPTICAL RESULTS (MEASURED):

SHARP

LED Mega Zenigata (GW6DME)

FWHM / FWTM 92.0° / 130.0°

Efficiency 92 %

Peak intensity 0.5 cd/lm

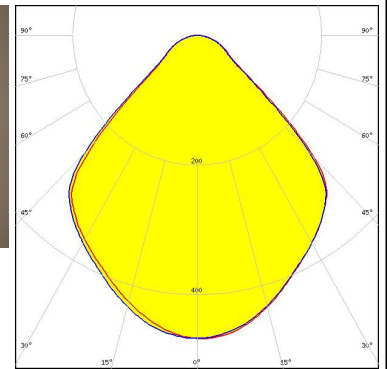
LEDs/each optic 1

Light colour White

Required components:

F13671_ANGE-RZ-LENS

TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



VS LIGHTING SOLUTIONS

LED WU-M-464

FWHM / FWTM 93.0° / 136.0°

Efficiency 94 %

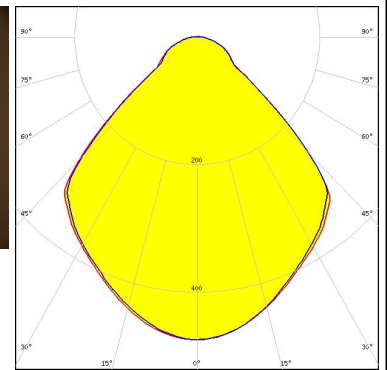
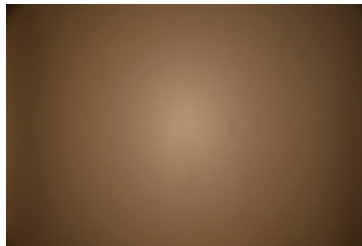
Peak intensity 0.5 cd/lm

LEDs/each optic 1

Light colour White

Required components:

TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



VS LIGHTING SOLUTIONS

LED WU-M-484

FWHM / FWTM 93.0° / 137.0°

Efficiency 94 %

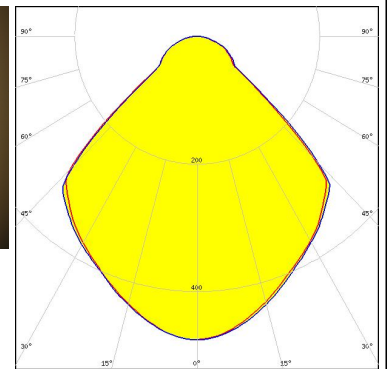
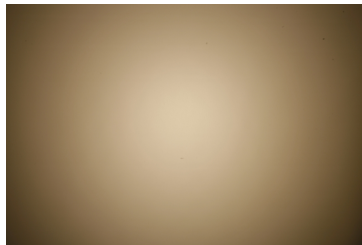
Peak intensity 0.5 cd/lm

LEDs/each optic 1

Light colour White

Required components:

TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



VS LIGHTING SOLUTIONS

LED WU-M-485

FWHM / FWTM 93.0° / 137.0°

Efficiency 94 %

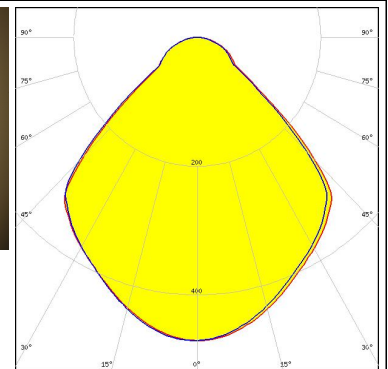
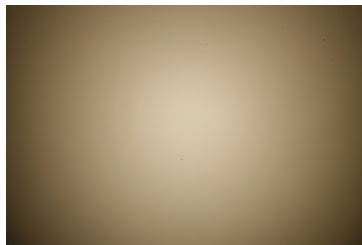
Peak intensity 0.5 cd/lm

LEDs/each optic 1

Light colour White

Required components:

TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



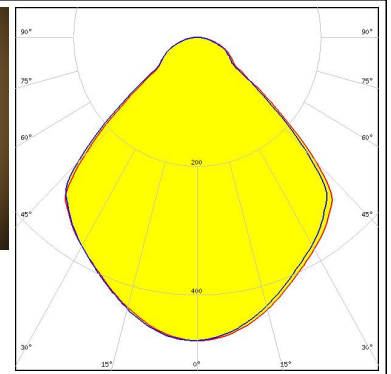
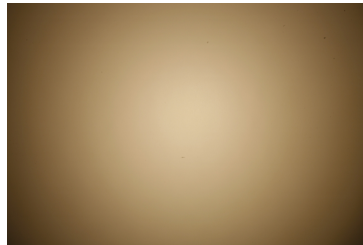
OPTICAL RESULTS (MEASURED):



LED WU-M-486
FWHM / FWTM 92.0° / 136.0°
Efficiency 94 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour White

Required components:

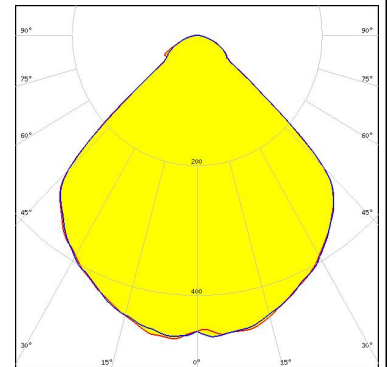
TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



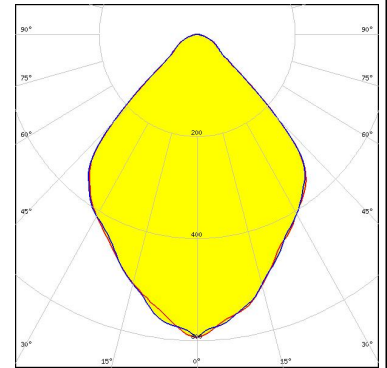
OPTICAL RESULTS (SIMULATED):



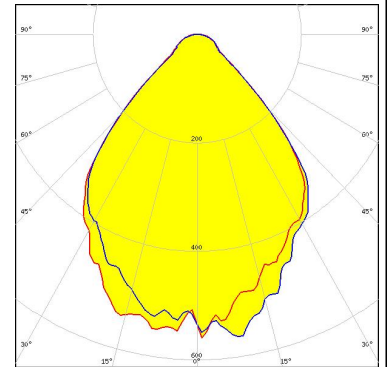
LED V10 Gen7
 FWHM / FWTM 93.0° / 123.0°
 Efficiency 92 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 486 Typ L1



LED V13 Gen7
 FWHM / FWTM 86.0° / 112.0°
 Efficiency 92 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 IDEAL: 50-2103CT + 50-2100AN



LED V22 Gen7
 FWHM / FWTM 82.0° / 110.0°
 Efficiency 94 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 IDEAL: 50-2204-CT + 50-2100AN



LED CxM-9 (13.5x13.5)
 FWHM / FWTM 94.0° / 130.0°
 Efficiency 95 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 434 Typ L1

OPTICAL RESULTS (SIMULATED):

 SEOUL SEMICONDUCTOR	
LED	ZC12/18
FWHM / FWTM	92.0° / 130.0°
Efficiency	95 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13658_CLAMP-VERO13-18	
Bender Wirth: 433 Typ L1	

 SEOUL SEMICONDUCTOR	
LED	ZC4/6
FWHM / FWTM	94.0° / 130.0°
Efficiency	95 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13658_CLAMP-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.

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