

ANGELA-XW

White version with ~70° wide beam

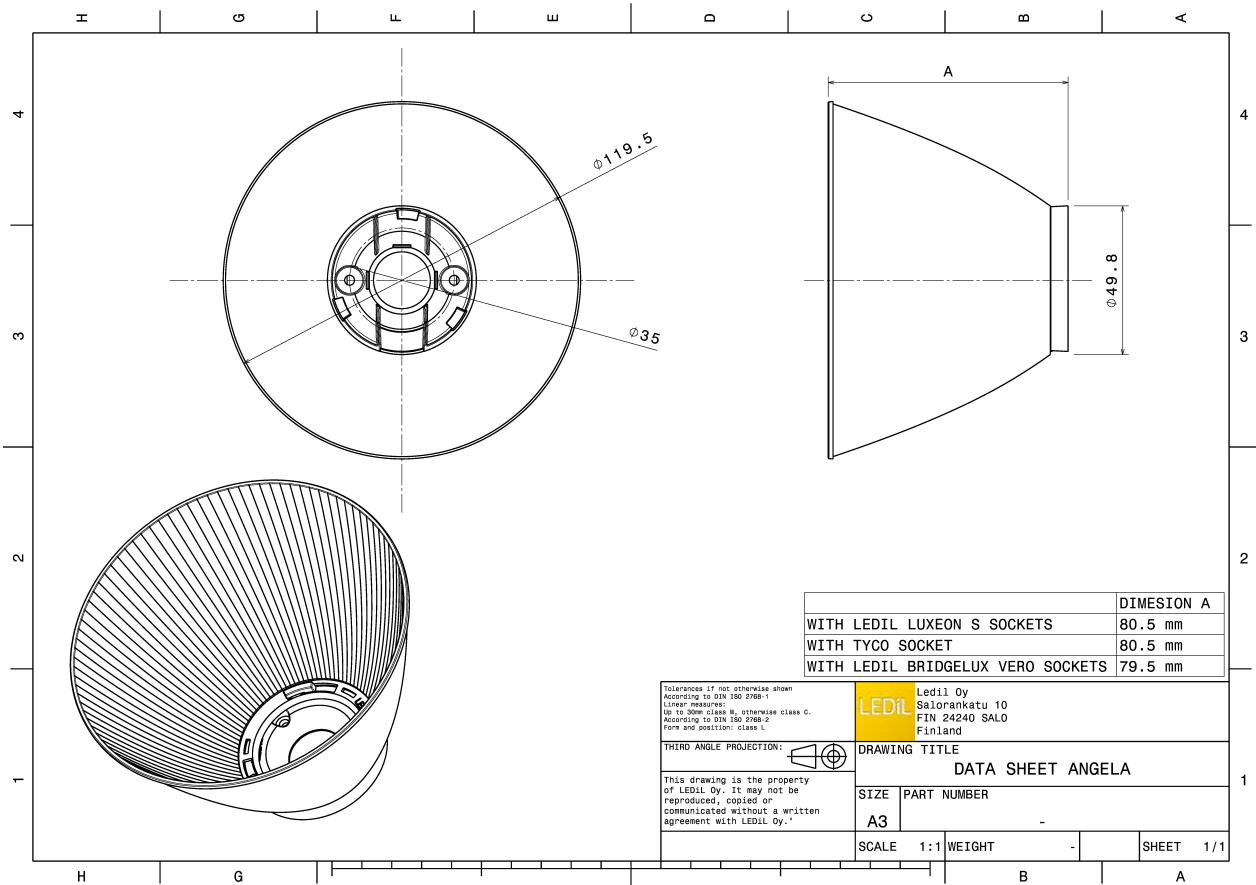
TECHNICAL SPECIFICATIONS:

Dimensions	Ø 119.5 mm
Height	74.3 mm
Fastening	socket
Colour	white
Box size	480 x 280 x 300 mm
Box weight	8.1 kg
Quantity in Box	180 pcs
ROHS compliant	yes ⓘ



MATERIAL SPECIFICATIONS:

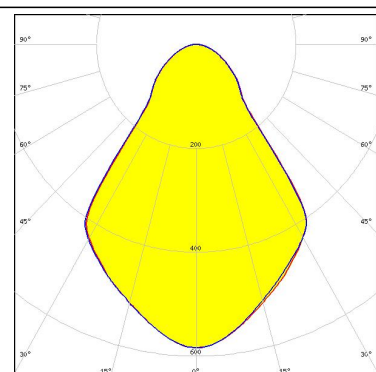
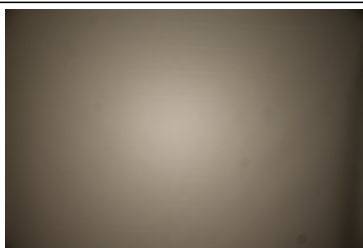
Component	Type	Material	Colour	Coating
ANGELA-XW	Reflector	HRPC	white	



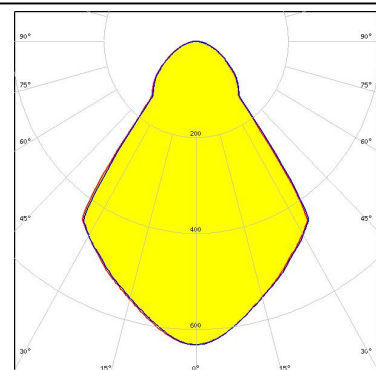
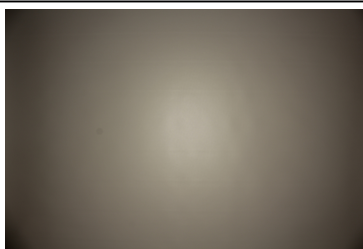
PHOTOMETRIC DATA (MEASURED):



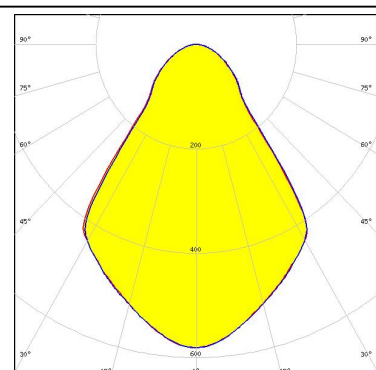
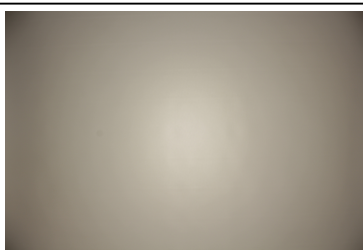
LED V10 Gen7
FWHM 72.0°
Efficiency 87 %
Peak intensity 0.600 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
F13671_ANGE-RZ-LENS
Bender Wirth: 434 Typ L1



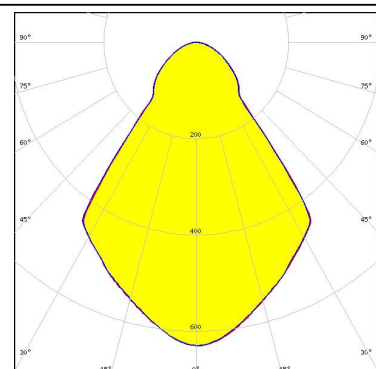
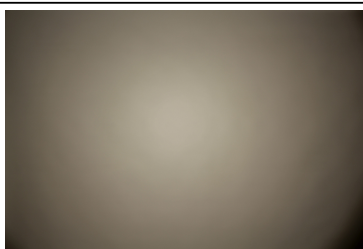
LED V13 Gen7
FWHM 72.0°
Efficiency 92 %
Peak intensity 0.630 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



LED V13 Gen7
FWHM 72.0°
Efficiency 87 %
Peak intensity 0.580 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



LED Vero SE 13
FWHM 73.0°
Efficiency 93 %
Peak intensity 0.600 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C16402_CLAMP-VEROSE-13-18



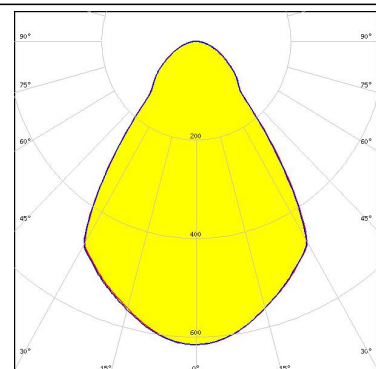
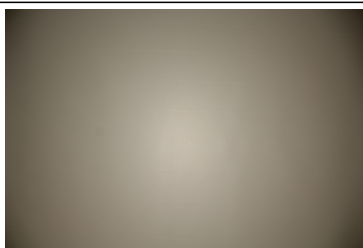
PHOTOMETRIC DATA (MEASURED):

bridgelux. LED Vero SE 18 FWHM 73.0° Efficiency 93 % Peak intensity 0.620 cd/lm LEDs/each optic 1 Light colour White Required components: C16402_CLAMP-VEROSE-13-18		
bridgelux. LED VERO13 FWHM 73.0° Efficiency 93 % Peak intensity 0.630 cd/lm LEDs/each optic 1 Light colour White Required components: C13658_CLAMP-VERO13-18		
bridgelux. LED VERO18 FWHM 72.0° Efficiency 93 % Peak intensity 0.630 cd/lm LEDs/each optic 1 Light colour White Required components: C13658_CLAMP-VERO13-18		
bridgelux. LED VERO29 FWHM 72.0° Efficiency 88 % Peak intensity 0.570 cd/lm LEDs/each optic 1 Light colour White Required components: C13584_CLAMP-VERO29 F13671_ANGE-RZ-LENS		

PHOTOMETRIC DATA (MEASURED):

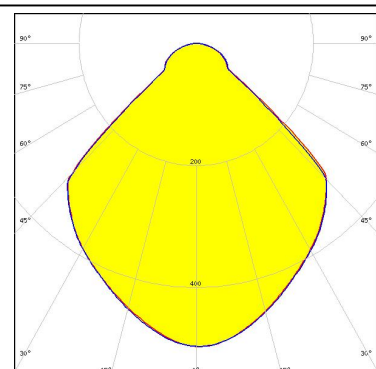
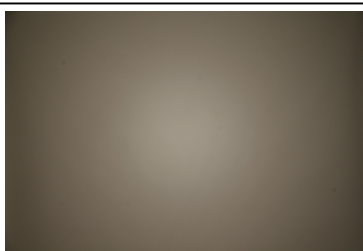


LED VERO29
FWHM 72.0°
Efficiency 94 %
Peak intensity 0.620 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13584_CLAMP-VERO29



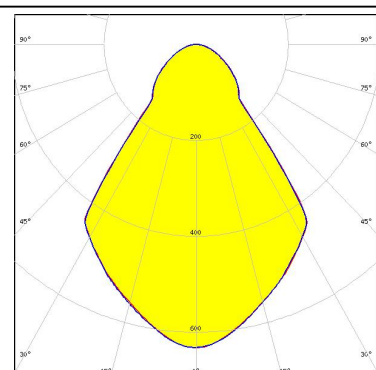
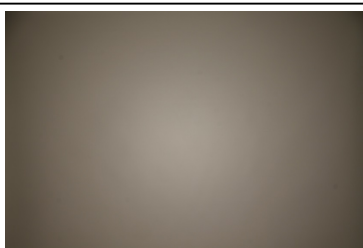
CITIZEN

LED CLL02x/CLU02x (LES10)
FWHM 72.0°
Efficiency 93 %
Peak intensity 0.640 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 434 Typ L1



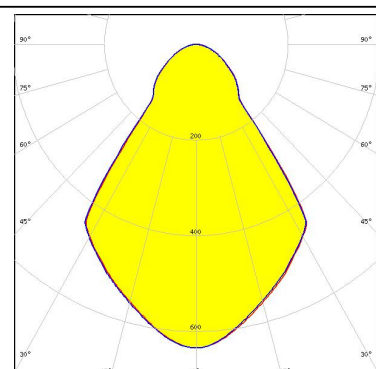
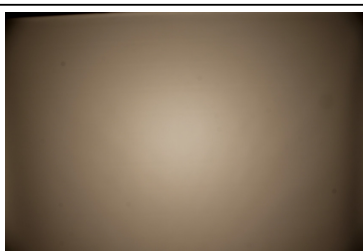
CITIZEN

LED CLL03x/CLU03x
FWHM 72.0°
Efficiency 93 %
Peak intensity 0.630 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 433 Typ L1



CITIZEN

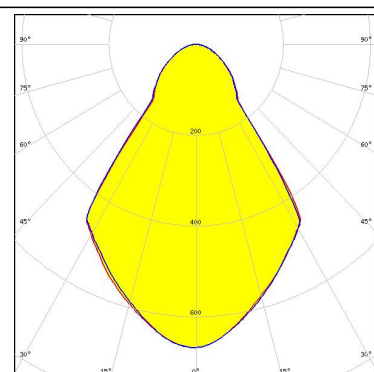
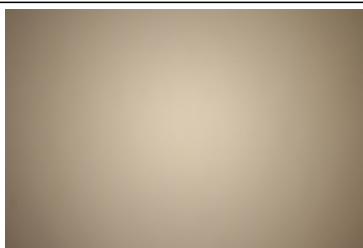
LED CLL03x/CLU03x
FWHM 71.0°
Efficiency 92 %
Peak intensity 0.630 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



PHOTOMETRIC DATA (MEASURED):

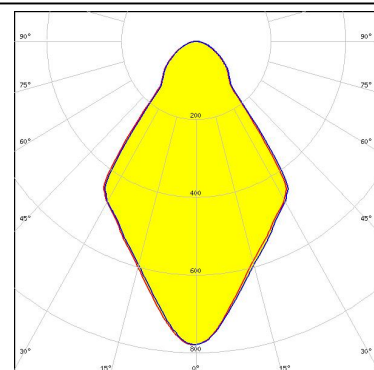
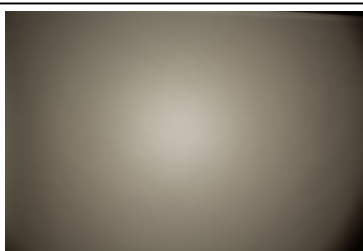
CITIZEN

LED CLL03x/CLU03x
FWHM 70.0°
Efficiency 93 %
Peak intensity 0.700 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2103CT + 50-2100AN



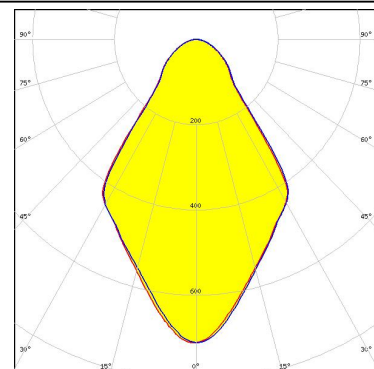
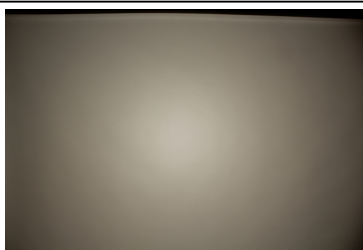
CITIZEN

LED CLL03x/CLU03x
FWHM 69.0°
Efficiency 94 %
Peak intensity 0.800 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C16791_CLAMP-Z45-A
TE: 2325807-3



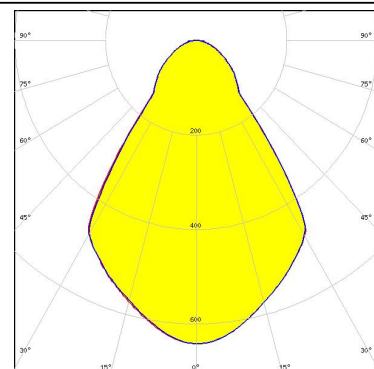
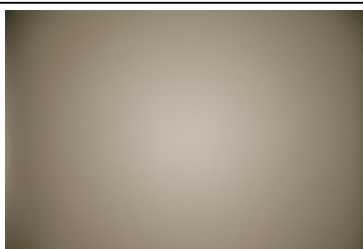
CITIZEN

LED CLL03x/CLU03x
FWHM 69.0°
Efficiency 90 %
Peak intensity 0.700 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C16791_CLAMP-Z45-A
F13671_ANGE-RZ-LENS
TE: 2325807-3



CITIZEN

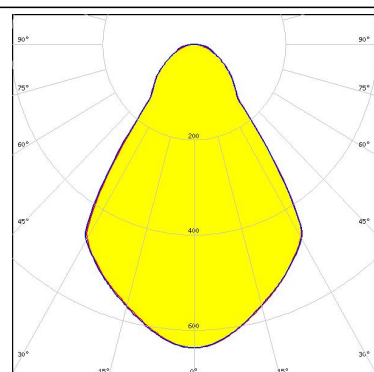
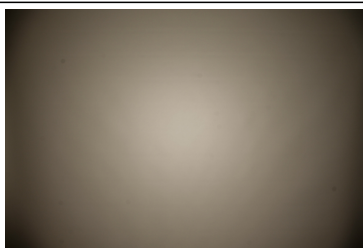
LED CLL04x/CLU04x
FWHM 70.0°
Efficiency 93 %
Peak intensity 0.640 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13584_CLAMP-VERO29
Bender Wirth: 431 Typ L3



PHOTOMETRIC DATA (MEASURED):

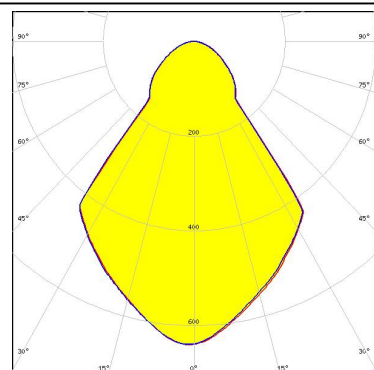
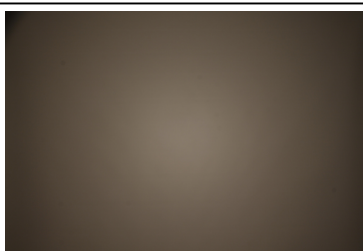
CITIZEN

LED CLL04x/CLU04x
FWHM 70.0°
Efficiency 93 %
Peak intensity 0.640 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2204-CT + 50-2100AN



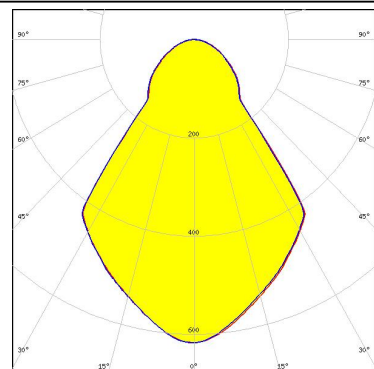
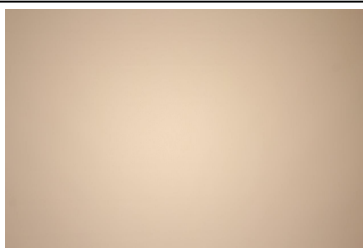
CITIZEN

LED CLU700/701
FWHM 73.0°
Efficiency 93 %
Peak intensity 0.640 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 434 Typ L1



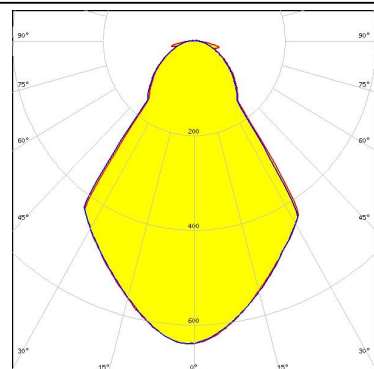
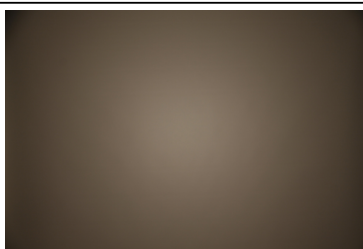
CITIZEN

LED CLU720/721
FWHM 72.0°
Efficiency 93 %
Peak intensity 0.620 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



CITIZEN

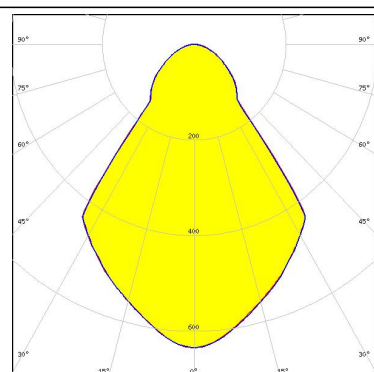
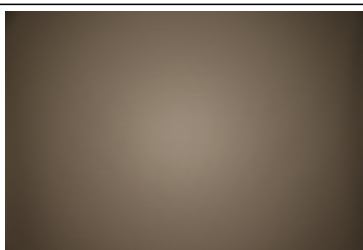
LED CLU720/721
FWHM 70.0°
Efficiency 94 %
Peak intensity 0.640 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2103CT + 50-2100AN



PHOTOMETRIC DATA (MEASURED):

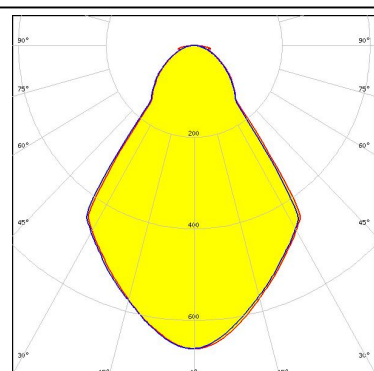
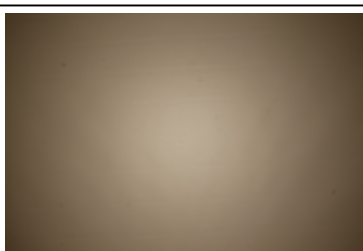
CITIZEN

LED CLU720/721
FWHM 72.0°
Efficiency 93 %
Peak intensity 0.640 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 433 Typ L1



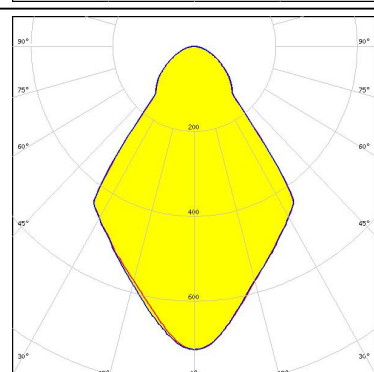
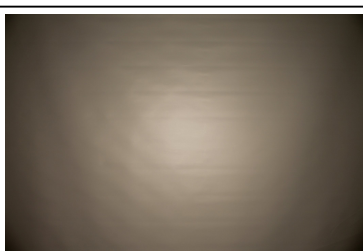
CITIZEN

LED CLU730/731
FWHM 71.0°
Efficiency 93 %
Peak intensity 0.660 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2204-CT + 50-2100AN



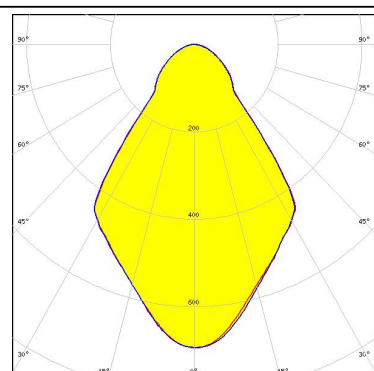
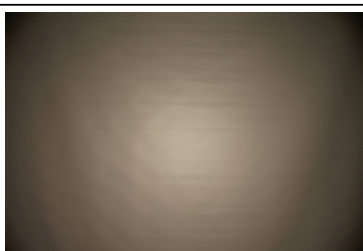
CREE

LED CMA1840
FWHM 72.0°
Efficiency 95 %
Peak intensity 0.700 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14123_CLAMP-CXA15-18



CREE

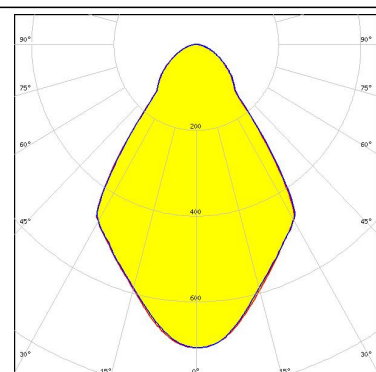
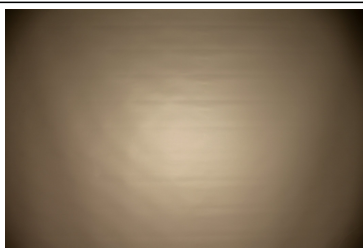
LED CMA2550
FWHM 71.0°
Efficiency 94 %
Peak intensity 0.690 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14036_CLAMP_CXA25-30



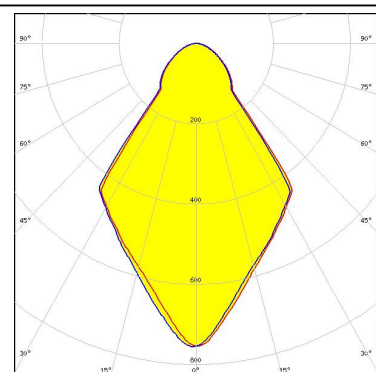
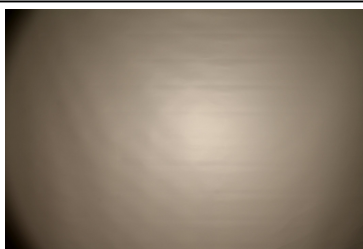
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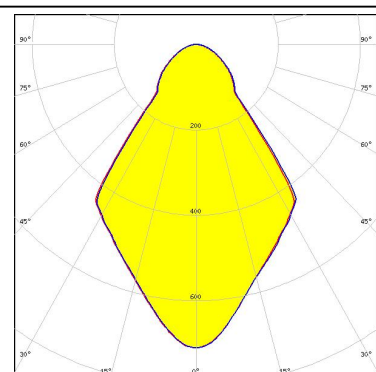
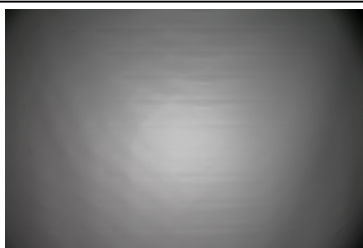
LED CMA3090
FWHM 70.0°
Efficiency 94 %
Peak intensity 0.700 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14036_CLAMP_CXA25-30



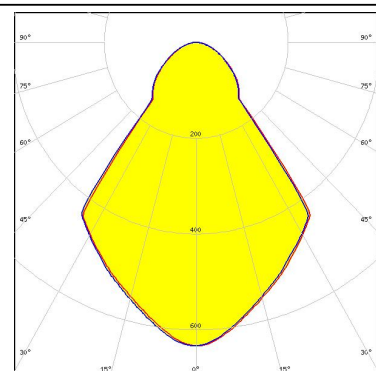
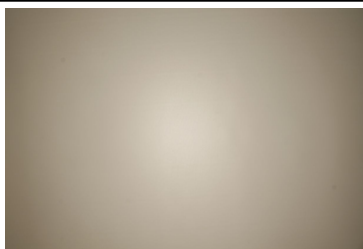
LED CMT14xx
FWHM 71.0°
Efficiency 93 %
Peak intensity 0.750 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 434 Typ L1



LED CMT19xx
FWHM 72.0°
Efficiency 94 %
Peak intensity 0.700 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 477 Typ L1



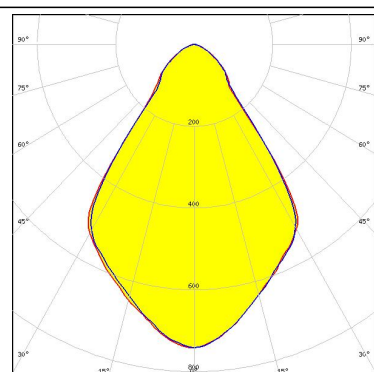
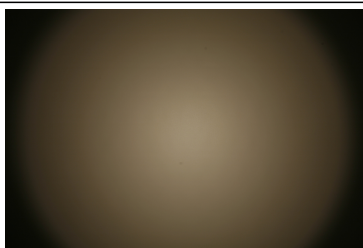
LED CXA/B 15xx
FWHM 73.0°
Efficiency 93 %
Peak intensity 0.630 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 441 Typ L1



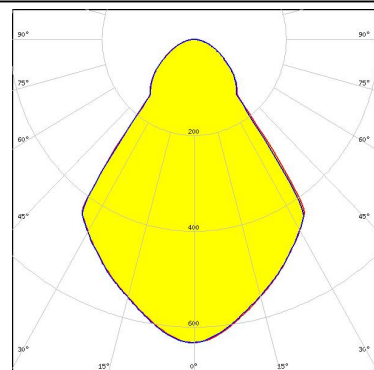
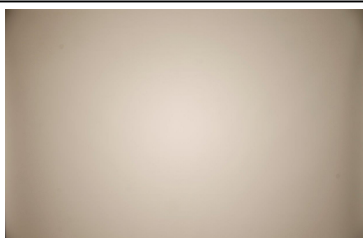
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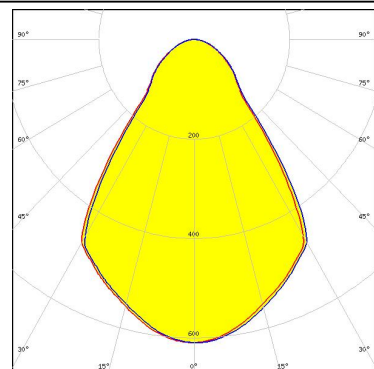
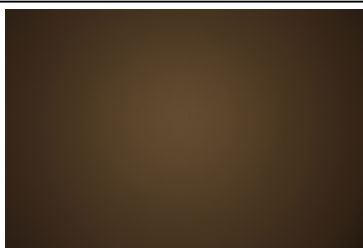
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM 72.0°
Efficiency 94 %
Peak intensity 0.740 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14123_CLAMP-CXA15-18



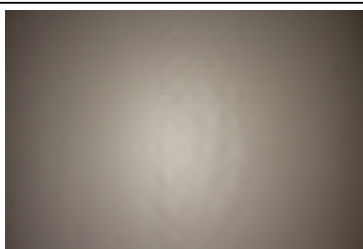
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM 72.0°
Efficiency 92 %
Peak intensity 0.630 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 437 Typ L1



LED CXA/B 3590
FWHM 72.0°
Efficiency 94 %
Peak intensity 0.610 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2303CR + 50-2300AN



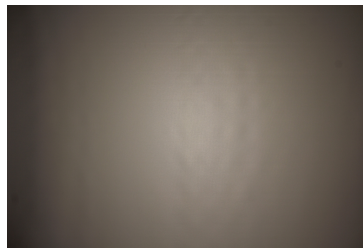
LED CHI3030 19W
FWHM 71.0°
Efficiency 91 %
Peak intensity 0.500 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13584_CLAMP-VERO29
F13671_ANGE-RZ-LENS
Bender Wirth: 468 Typ L3



PHOTOMETRIC DATA (MEASURED):

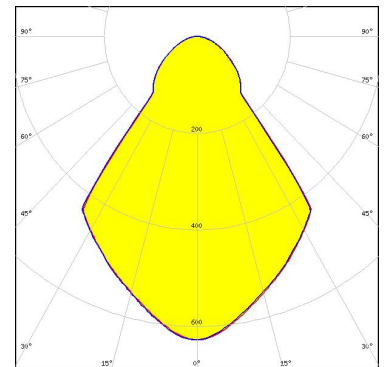
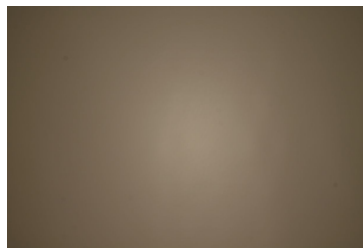
EVERLIGHT

LED CHI3030 29W
FWHM 71.0°
Efficiency 90 %
Peak intensity 0.600 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13584_CLAMP-VERO29
F13671_ANGE-RZ-LENS
Bender Wirth: 468 Typ L3



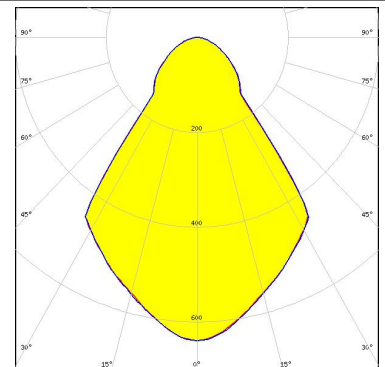
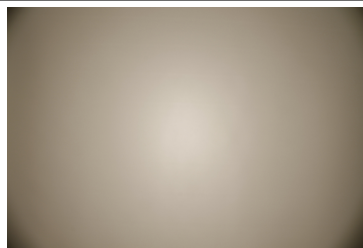
LUMILEDS

LED LUXEON CoB 1202/1203
FWHM 73.0°
Efficiency 93 %
Peak intensity 0.600 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 438 Typ L1



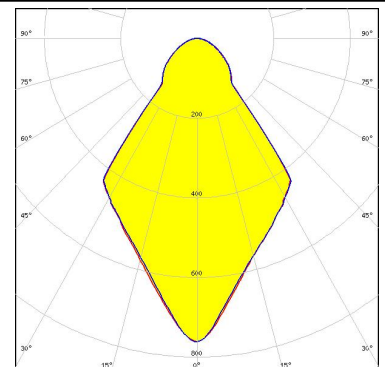
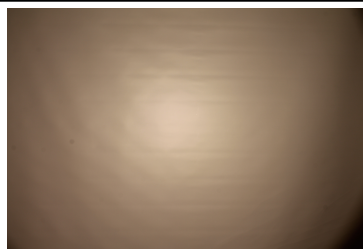
LUMILEDS

LED LUXEON CoB 1204/1205
FWHM 72.0°
Efficiency 93 %
Peak intensity 0.600 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LUMILEDS

LED LUXEON CoB 1204HD
FWHM 71.0°
Efficiency 93 %
Peak intensity 0.760 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



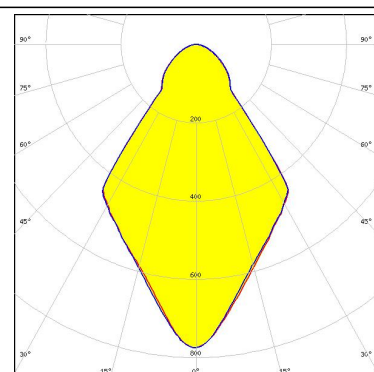
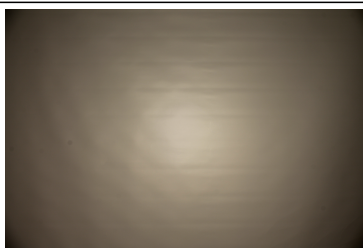
PHOTOMETRIC DATA (MEASURED):



LED LUXEON CoB 1205HD
FWHM 70.0°
Efficiency 93 %
Peak intensity 0.780 cd/lm
LEDs/each optic 1
Light colour White

Required components:

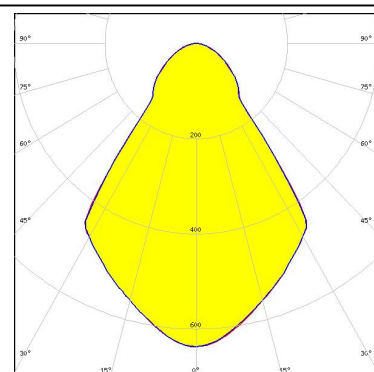
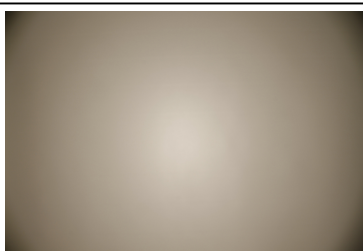
TE: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



LED LUXEON CoB 1208
FWHM 71.0°
Efficiency 93 %
Peak intensity 0.600 cd/lm
LEDs/each optic 1
Light colour White

Required components:

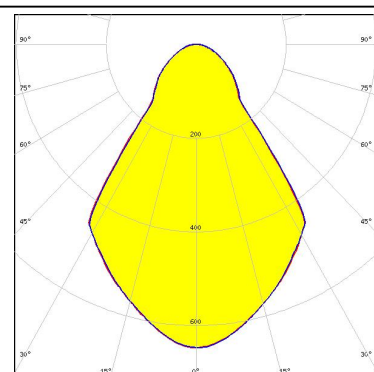
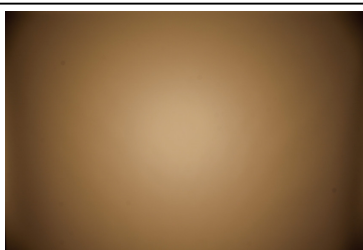
TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



LED LUXEON CoB 1208
FWHM 71.0°
Efficiency 93 %
Peak intensity 0.650 cd/lm
LEDs/each optic 1
Light colour White

Required components:

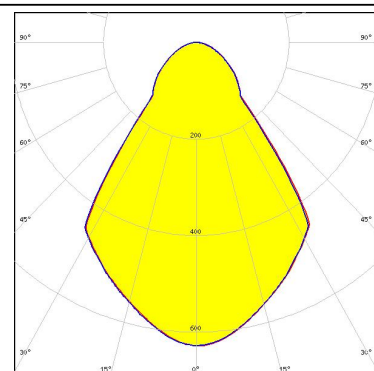
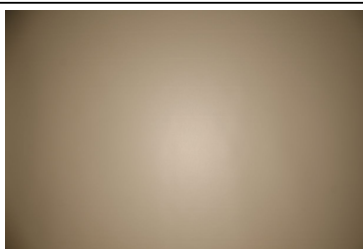
IDEAL: 50-2100SH + 50-2100AN



LED LUXEON CoB 1211
FWHM 72.0°
Efficiency 93 %
Peak intensity 0.630 cd/lm
LEDs/each optic 1
Light colour White

Required components:

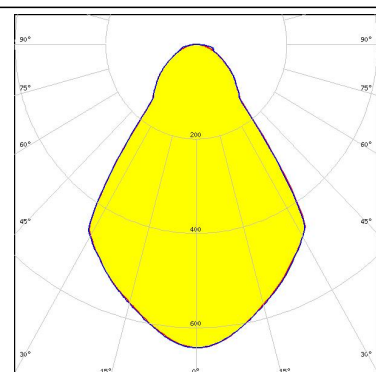
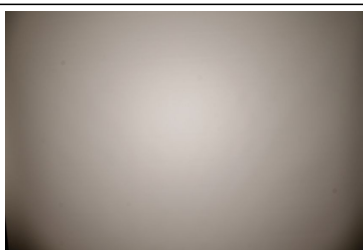
C13584_CLAMP-VERO29
Bender Wirth: 431 Typ L3



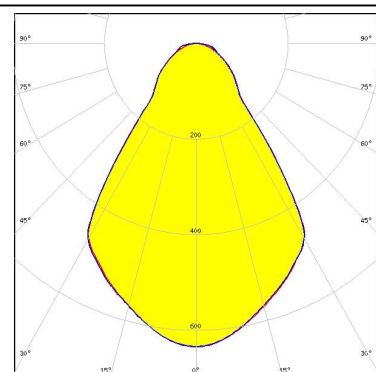
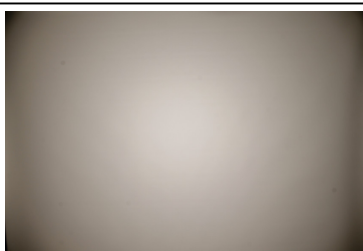
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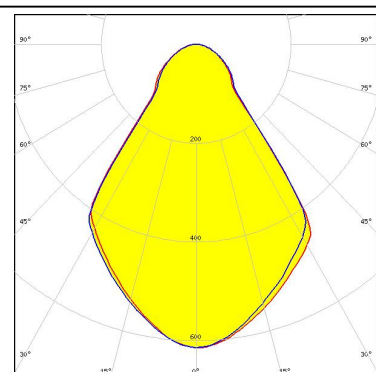
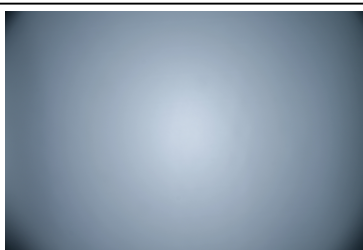
LED LUXEON CoB 1211
 FWHM 71.0°
 Efficiency 93 %
 Peak intensity 0.640 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 IDEAL: 50-2204-CT + 50-2100AN



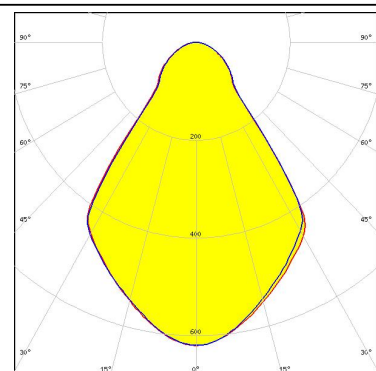
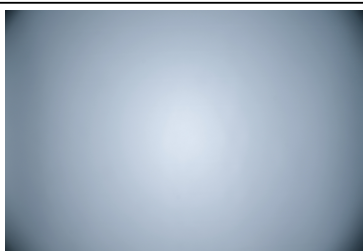
LED LUXEON CoB 1216/1812
 FWHM 70.0°
 Efficiency 93 %
 Peak intensity 0.640 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 IDEAL: 50-2204-CT + 50-2100AN



LED LUXEON K12
 FWHM 72.0°
 Efficiency 89 %
 Peak intensity 0.600 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGE-RZ-LENS
 TE: 2213134-2 + OPTIC CLIP Z50 TYPE1 2213194-1



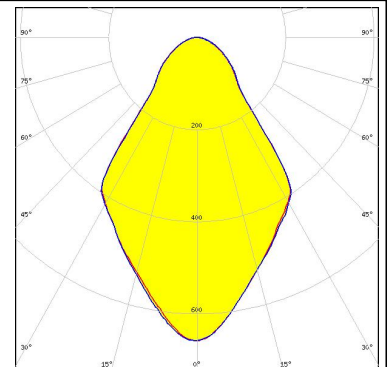
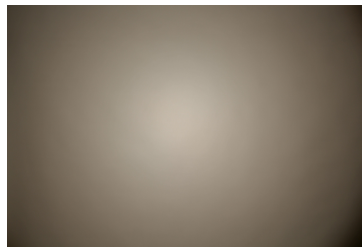
LED LUXEON K16
 FWHM 72.0°
 Efficiency 88 %
 Peak intensity 0.600 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGE-RZ-LENS
 TE: 2213134-2 + OPTIC CLIP Z50 TYPE1 2213194-1



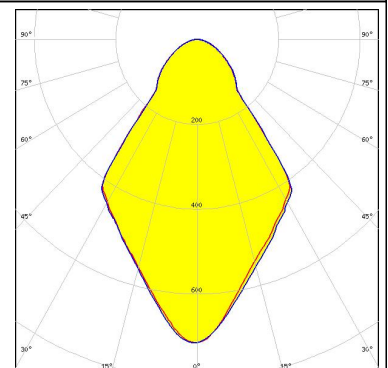
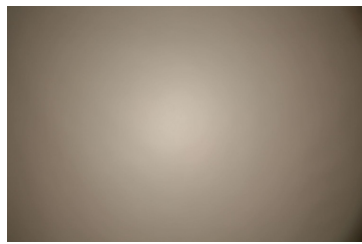
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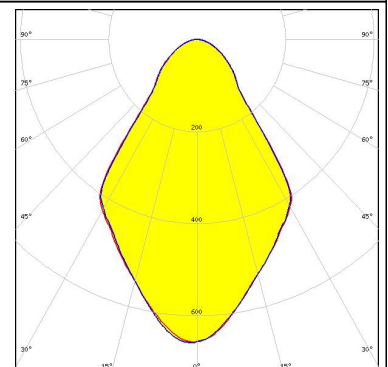
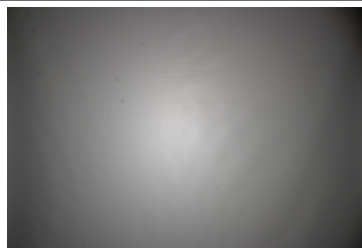
LED CDM-14 (Dim-To-Warm)
FWHM 71.0°
Efficiency 87 %
Peak intensity 0.660 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
F13671_ANGE-RZ-LENS
Bender Wirth: 491 Typ L2



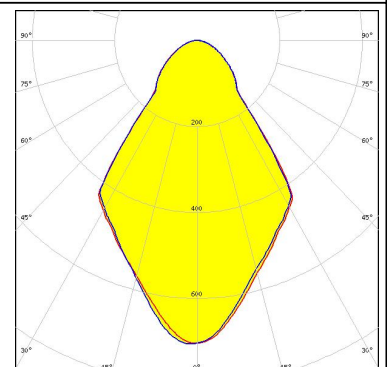
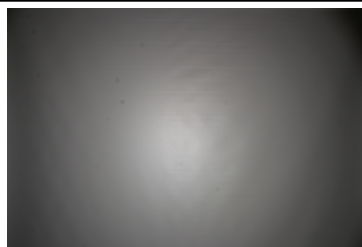
LED CDM-14 (Dim-To-Warm)
FWHM 71.0°
Efficiency 92 %
Peak intensity 0.700 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 491 Typ L2



LED CDM-18 (Dim-To-Warm)
FWHM 70.0°
Efficiency 88 %
Peak intensity 0.660 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
F13671_ANGE-RZ-LENS
Bender Wirth: 491 Typ L2



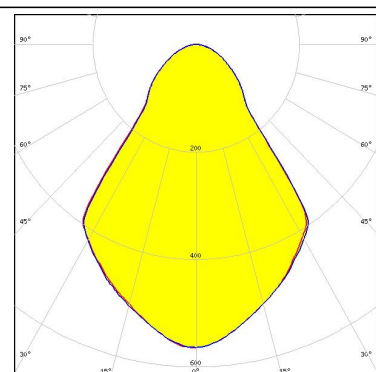
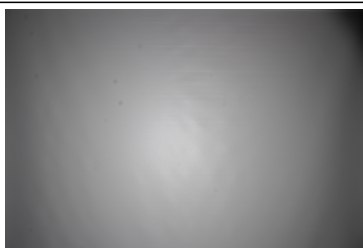
LED CDM-18 (Dim-To-Warm)
FWHM 70.0°
Efficiency 93 %
Peak intensity 0.700 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 491 Typ L2



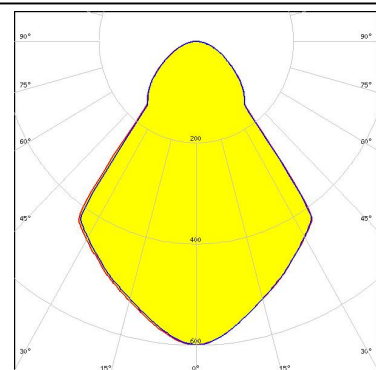
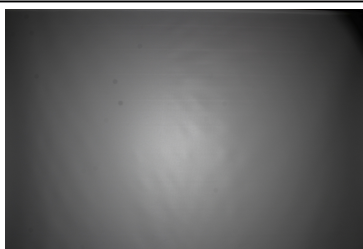
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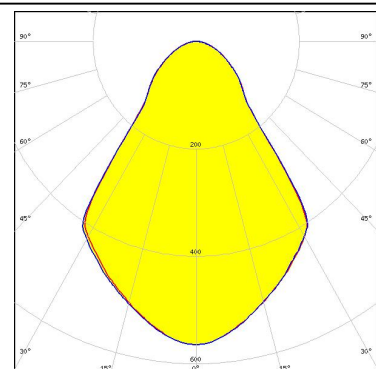
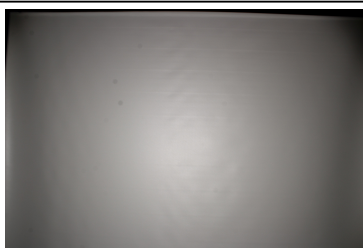
LED CDM-9 (Dim-To-Warm)
 FWHM 73.0°
 Efficiency 86 %
 Peak intensity 0.560 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13658_CLAMP-VERO13-18
 F13671_ANGE-RZ-LENS
 Bender Wirth: 490 Typ L1



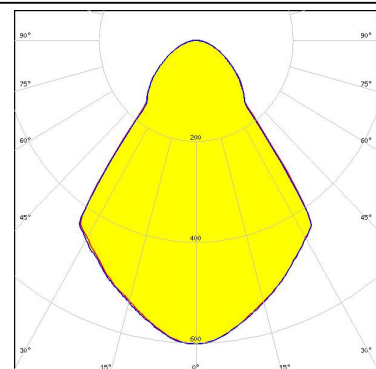
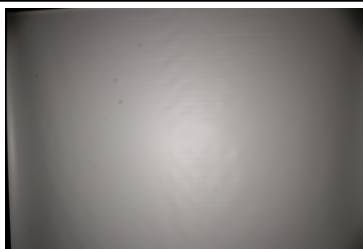
LED CDM-9 (Dim-To-Warm)
 FWHM 73.0°
 Efficiency 92 %
 Peak intensity 0.600 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 490 Typ L1



LED CTM-14 (Tunable White)
 FWHM 72.0°
 Efficiency 86 %
 Peak intensity 0.570 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13584_CLAMP-VERO29
 F13671_ANGE-RZ-LENS
 Bender Wirth: 442 Typ L3



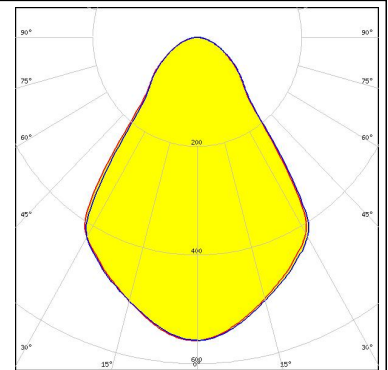
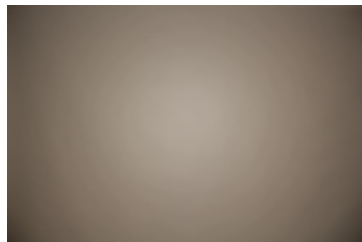
LED CTM-14 (Tunable White)
 FWHM 73.0°
 Efficiency 92 %
 Peak intensity 0.600 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13584_CLAMP-VERO29
 Bender Wirth: 442 Typ L3



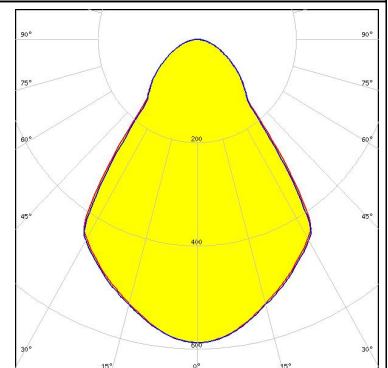
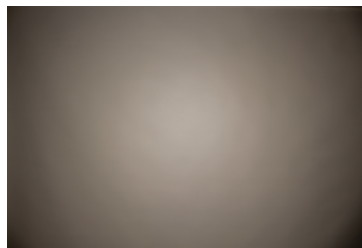
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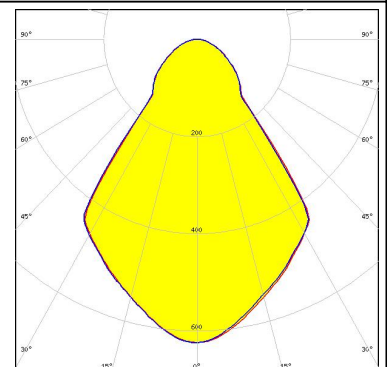
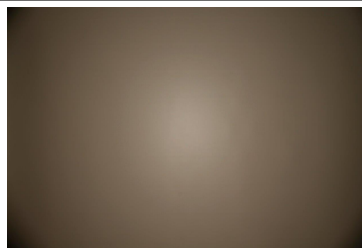
LED CTM-22 (Tunable White)
FWHM 72.0°
Efficiency 86 %
Peak intensity 0.560 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13584_CLAMP-VERO29
F13671_ANGE-RZ-LENS
Bender Wirth: 494 Typ L3



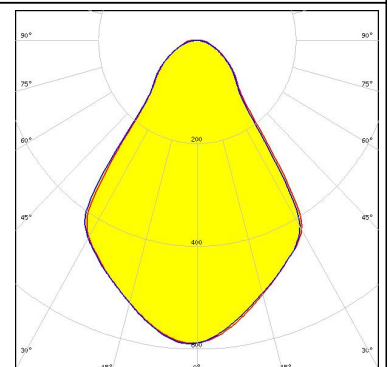
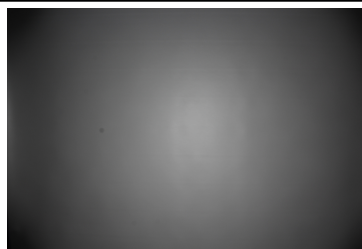
LED CTM-22 (Tunable White)
FWHM 73.0°
Efficiency 91 %
Peak intensity 0.590 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13584_CLAMP-VERO29
Bender Wirth: 494 Typ L3



LED CxM-14 (19x19)
FWHM 72.0°
Efficiency 93 %
Peak intensity 0.630 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



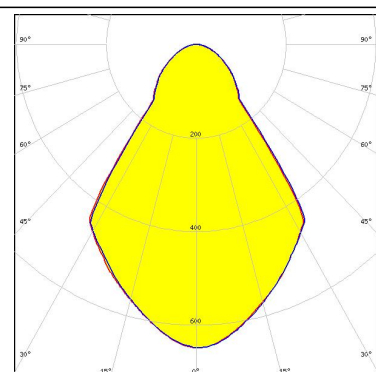
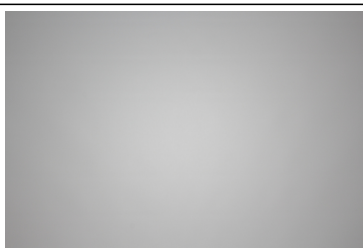
LED COB J-Type
FWHM 71.0°
Efficiency 87 %
Peak intensity 0.590 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
IDEAL: 50-2103NC + 50-2100AN



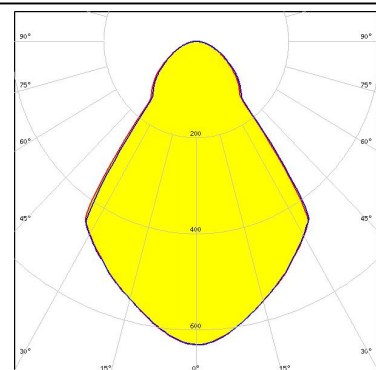
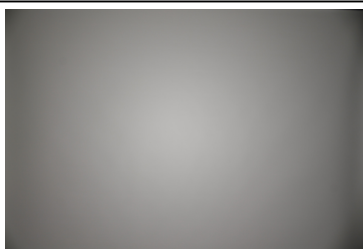
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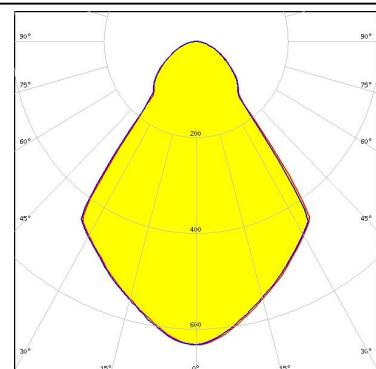
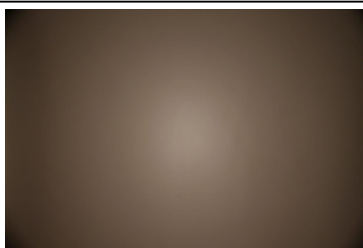
LED COB J-Type
FWHM 71.0°
Efficiency 91 %
Peak intensity 0.650 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2103NC + 50-2100AN



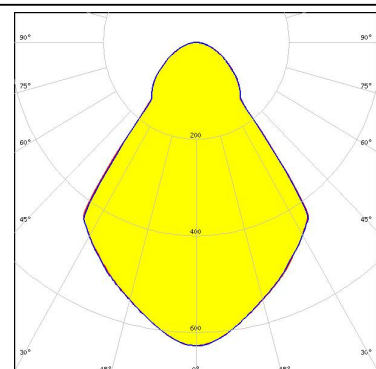
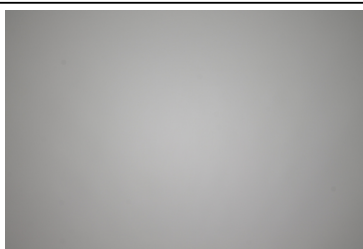
LED COB J-Type
FWHM 72.0°
Efficiency 93 %
Peak intensity 0.630 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 463 Typ L2



LED COB L-Type (LES 11)
FWHM 73.0°
Efficiency 94 %
Peak intensity 0.630 cd/lm
LEDs/each optic 1
Light colour White
Required components:
Molex: 180580-0005



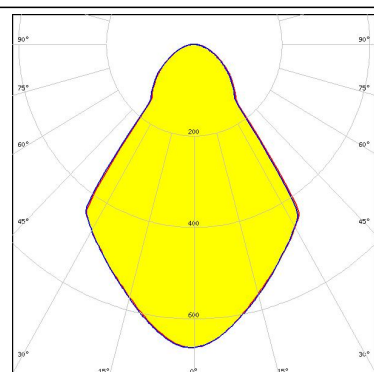
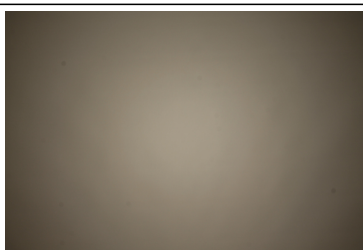
LED COB L-Type (LES 11)
FWHM 73.0°
Efficiency 93 %
Peak intensity 0.630 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 438 Typ L1



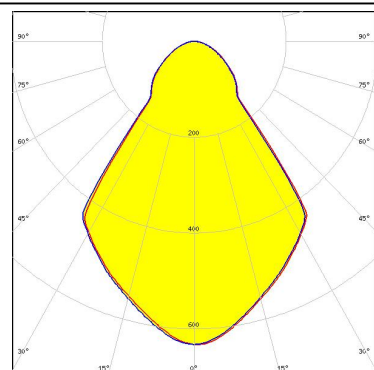
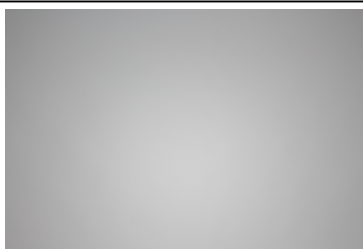
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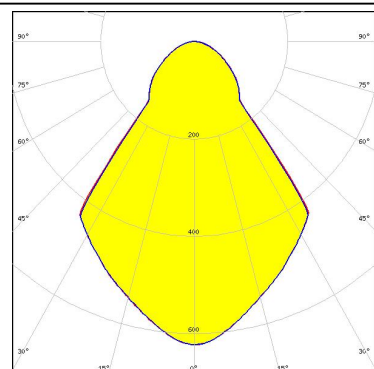
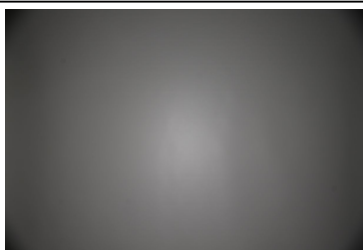
LED COB L-Type (LES 11)
 FWHM 71.0°
 Efficiency 92 %
 Peak intensity 0.660 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 IDEAL: 50-2100NC + 50-2100AN



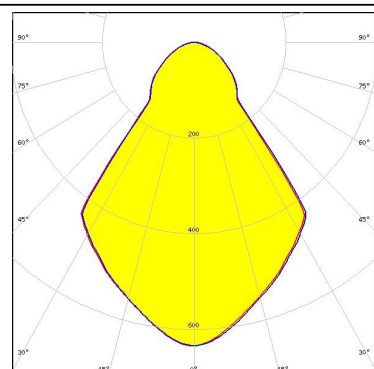
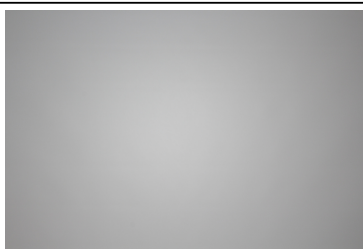
LED COB L-Type (LES 11)
 FWHM 72.0°
 Efficiency 92 %
 Peak intensity 0.630 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



LED COB L-Type (LES 9)
 FWHM 73.0°
 Efficiency 94 %
 Peak intensity 0.620 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 438 Typ L1



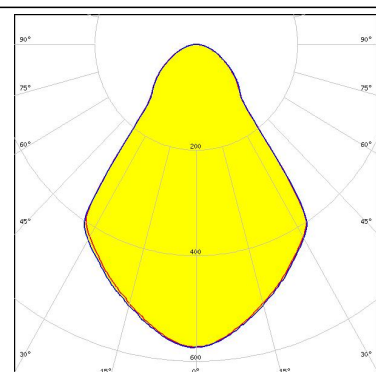
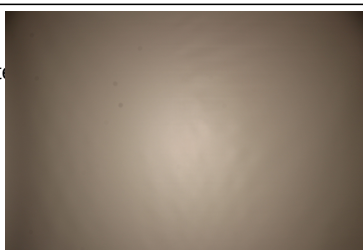
LED COB L-Type (LES 9)
 FWHM 72.0°
 Efficiency 92 %
 Peak intensity 0.630 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



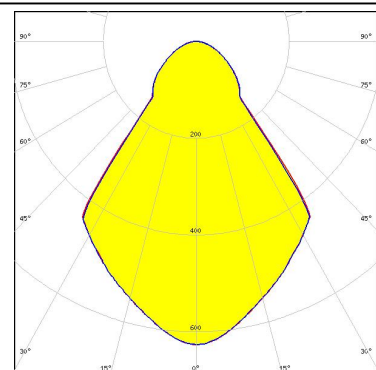
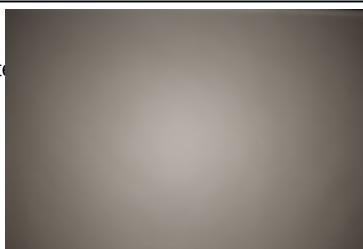
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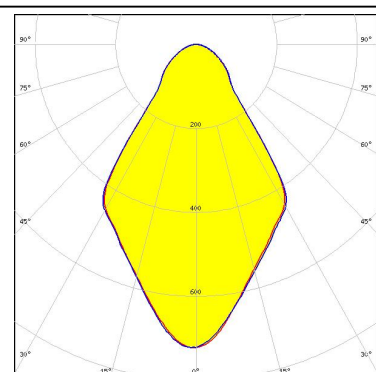
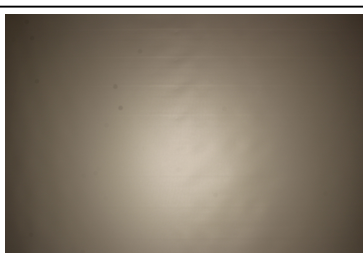
LED NVCWJ024Z-V1MT: COB J-Type Tunable White
 FWHM 72.0°
 Efficiency 85 %
 Peak intensity 0.574 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13658_CLAMP-VERO13-18
 F13671_ANGE-RZ-LENS
 Bender Wirth: 498 Typ L2



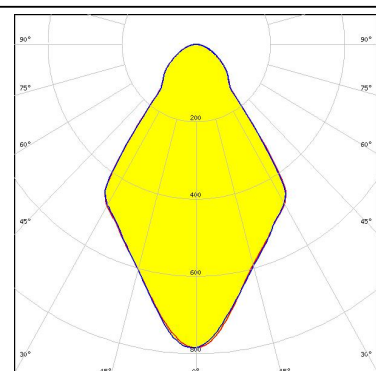
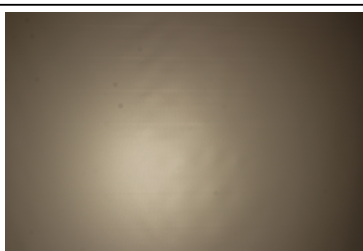
LED NVCWJ024Z-V1MT: COB J-Type Tunable White
 FWHM 73.0°
 Efficiency 93 %
 Peak intensity 0.630 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 498 Typ L2



LED PrevaLED Core G7 L15 H1
 FWHM 69.0°
 Efficiency 90 %
 Peak intensity 0.720 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C16685_CLAMP-PRV-A
 F13671_ANGE-RZ-LENS



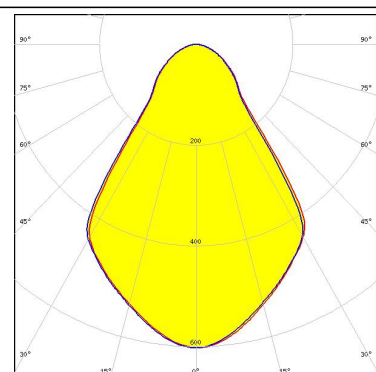
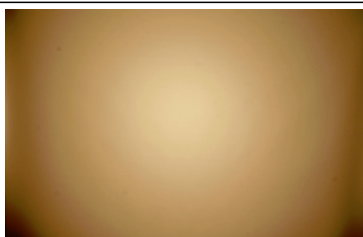
LED PrevaLED Core G7 L15 H1
 FWHM 69.0°
 Efficiency 94 %
 Peak intensity 0.790 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C16685_CLAMP-PRV-A



PHOTOMETRIC DATA (MEASURED):

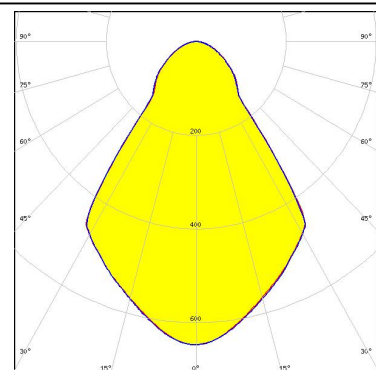
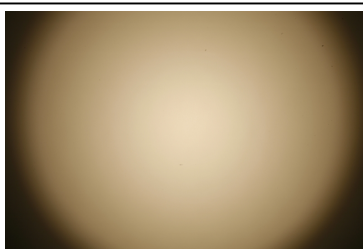
OSRAM

LED PrevaLED Core Z4 LES19
 FWHM 71.0°
 Efficiency 88 %
 Peak intensity 0.600 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGE-RZ-LENS
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



OSRAM

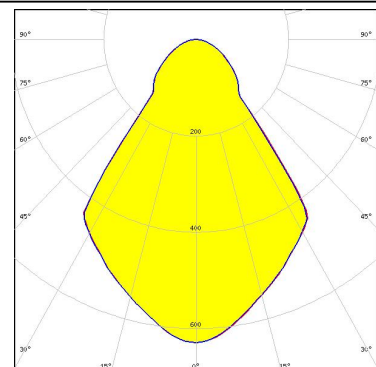
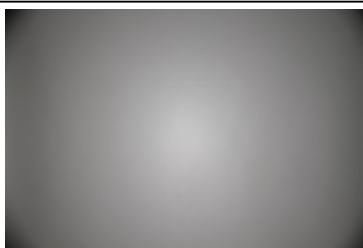
LED PrevaLED Core Z4 LES19
 FWHM 71.0°
 Efficiency 93 %
 Peak intensity 0.650 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



OSRAM

Opto Semiconductors

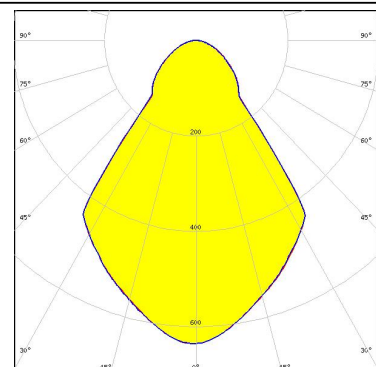
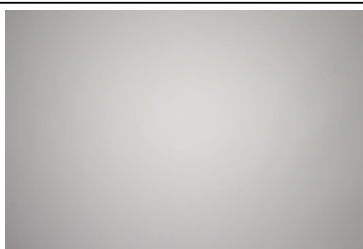
LED Soleriq S13
 FWHM 72.0°
 Efficiency 93 %
 Peak intensity 0.630 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1



OSRAM

Opto Semiconductors

LED Soleriq S13
 FWHM 72.0°
 Efficiency 93 %
 Peak intensity 0.640 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 437 Typ L1

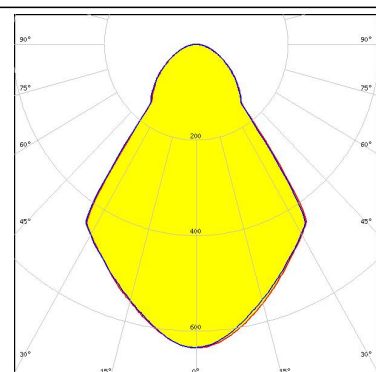
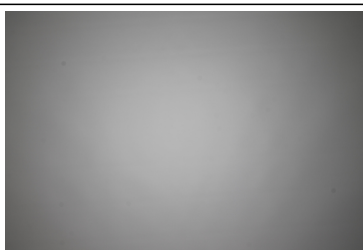


PHOTOMETRIC DATA (MEASURED):

OSRAM

Opto Semiconductors

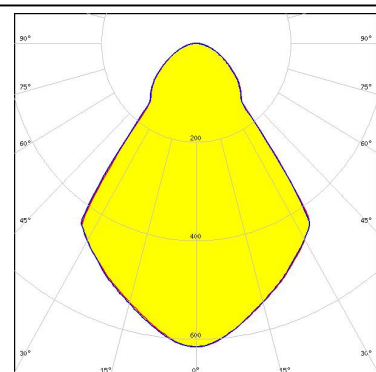
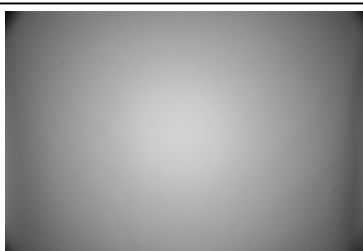
LED Soleriq S13 19x19
 FWHM 71.0°
 Efficiency 92 %
 Peak intensity 0.640 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 IDEAL: 50-2103CT + 50-2100AN



OSRAM

Opto Semiconductors

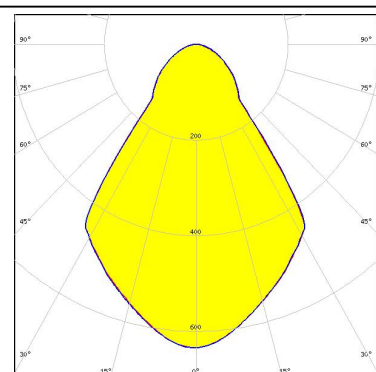
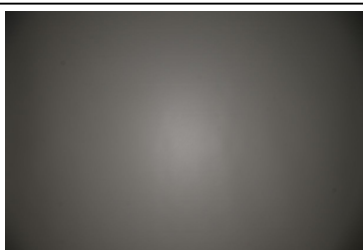
LED Soleriq S13 19x19
 FWHM 72.0°
 Efficiency 92 %
 Peak intensity 0.620 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



OSRAM

Opto Semiconductors

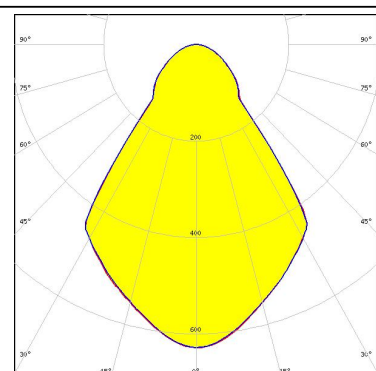
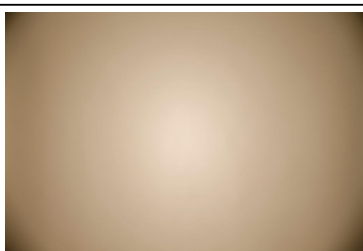
LED Soleriq S19
 FWHM 71.0°
 Efficiency 92 %
 Peak intensity 0.630 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13584_CLAMP-VERO29
 Bender Wirth: 462 Typ L3



OSRAM

Opto Semiconductors

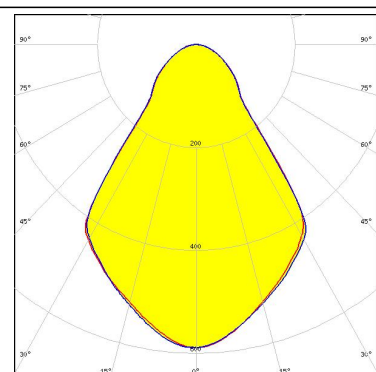
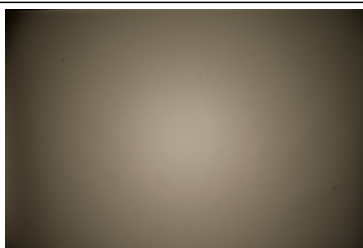
LED Soleriq S19
 FWHM 72.0°
 Efficiency 92 %
 Peak intensity 0.630 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE: 2213407-2 + OPTIC CLIP Z50 TYPE1 2213194-1



PHOTOMETRIC DATA (MEASURED):

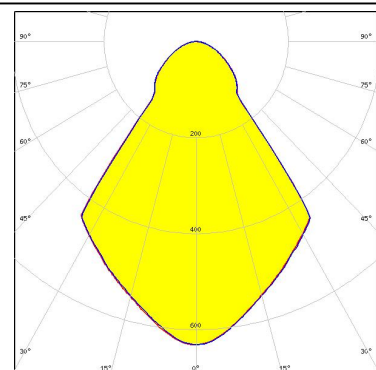
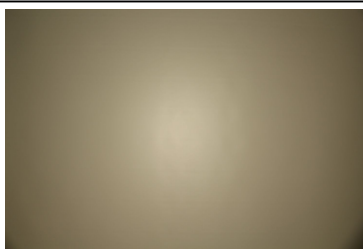
PHILIPS

LED Fortimo SLM 1208 L15 G6 Standard
 FWHM 72.0°
 Efficiency 87 %
 Peak intensity 0.600 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGE-RZ-LENS
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



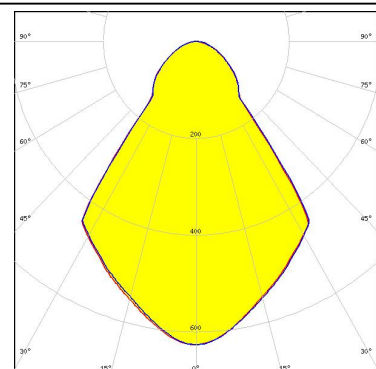
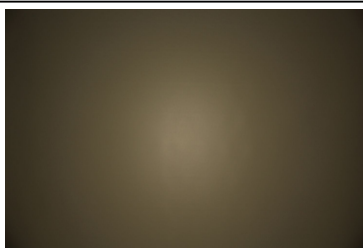
PHILIPS

LED Fortimo SLM L09 + SLM holder
 FWHM 72.0°
 Efficiency 92 %
 Peak intensity 0.630 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



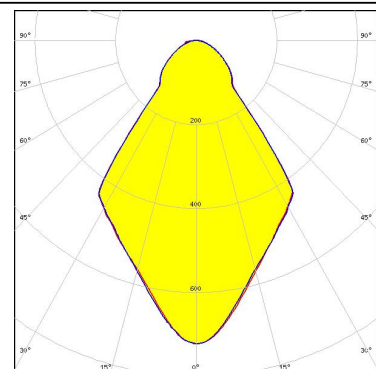
PHILIPS

LED Fortimo SLM L13 + SLM holder
 FWHM 72.0°
 Efficiency 92 %
 Peak intensity 0.630 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



PHILIPS

LED Fortimo SLM L13 CoB
 FWHM 71.0°
 Efficiency 93 %
 Peak intensity 0.720 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



PHOTOMETRIC DATA (MEASURED):

PHILIPS

LED Fortimo SLM L13 CoB

FWHM 71.0°

Efficiency 85 %

Peak intensity 0.640 cd/lm

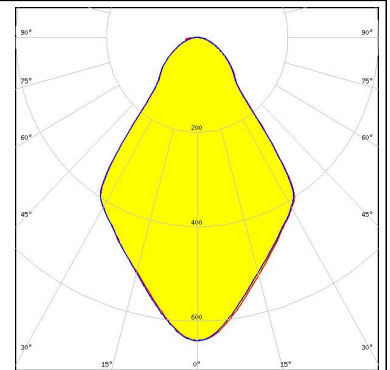
LEDs/each optic 1

Light colour White

Required components:

F13671_ANGE-RZ-LENS

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



PHILIPS

LED Fortimo SLM L15 + SLM holder

FWHM 72.0°

Efficiency 90 %

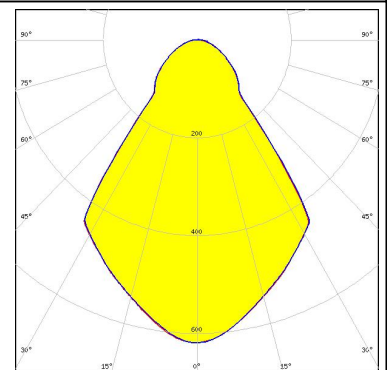
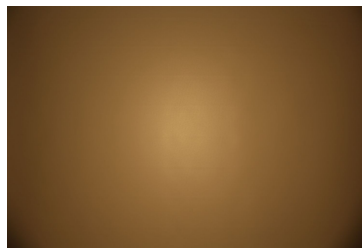
Peak intensity 0.620 cd/lm

LEDs/each optic 1

Light colour White

Required components:

TE: OPTIC CLIP Z50 TYPE1 2213194-1



PHILIPS

LED Fortimo SLM L15 + SLM holder

FWHM 72.0°

Efficiency 87 %

Peak intensity 0.600 cd/lm

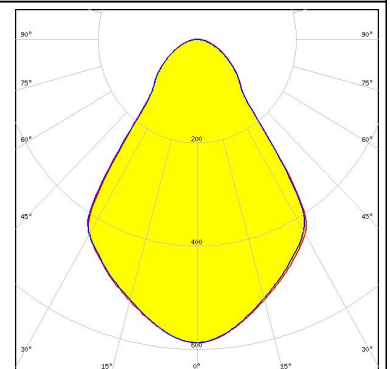
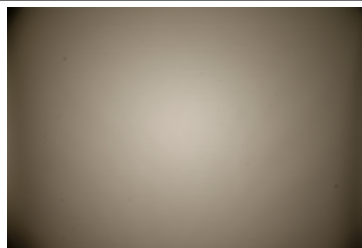
LEDs/each optic 1

Light colour White

Required components:

F13671_ANGE-RZ-LENS

TE: OPTIC CLIP Z50 TYPE1 2213194-1



PHILIPS

LED Fortimo SLM L15 CoB

FWHM 70.0°

Efficiency 85 %

Peak intensity 0.600 cd/lm

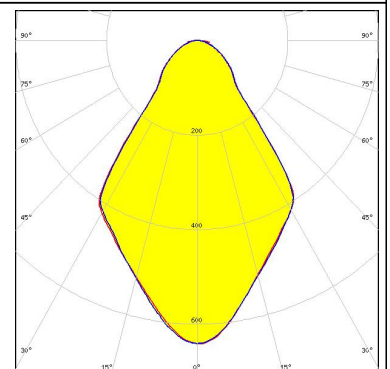
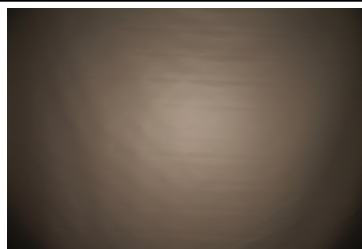
LEDs/each optic 1

Light colour White

Required components:

F13671_ANGE-RZ-LENS

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



PHOTOMETRIC DATA (MEASURED):

PHILIPS

LED Fortimo SLM L15 CoB

FWHM 71.0°

Efficiency 92 %

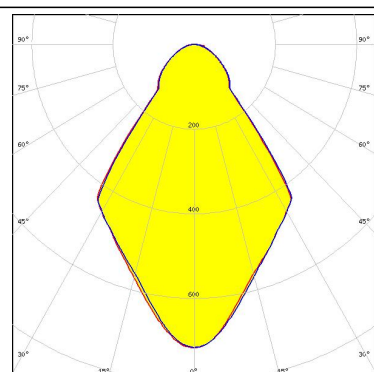
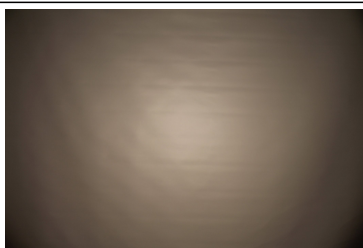
Peak intensity 0.700 cd/lm

LEDs/each optic 1

Light colour White

Required components:

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



PHILIPS

LED Fortimo SLM L19 + SLM holder

FWHM 72.0°

Efficiency 89 %

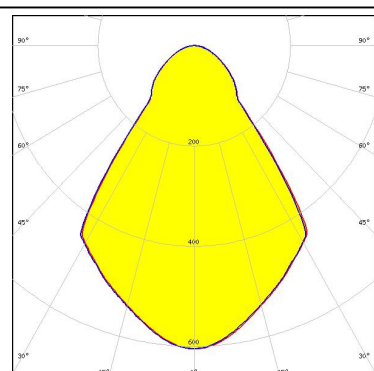
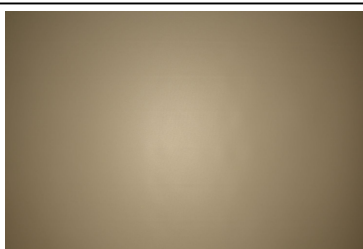
Peak intensity 0.600 cd/lm

LEDs/each optic 1

Light colour White

Required components:

TE: OPTIC CLIP Z50 TYPE1 2213194-1



SAMSUNG

LED LC026B / 033B / 040B

FWHM 72.0°

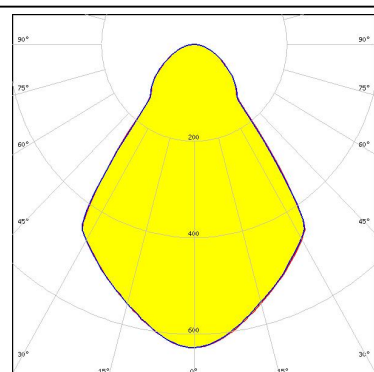
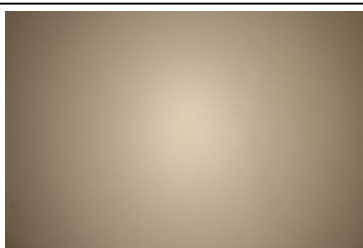
Efficiency 93 %

Peak intensity 0.630 cd/lm

LEDs/each optic 1

Light colour White

Required components:



SAMSUNG

LED LC026B / 033B / 040B

FWHM 72.0°

Efficiency 92 %

Peak intensity 0.630 cd/lm

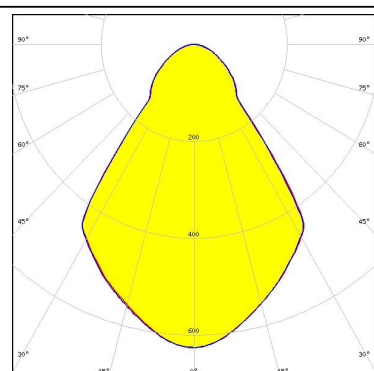
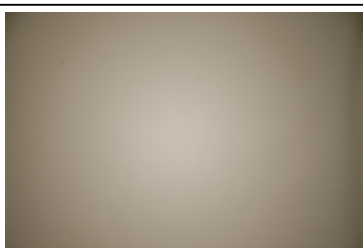
LEDs/each optic 1

Light colour White

Required components:

C13658_CLAMP-VERO13-18

Bender Wirth: 450 Typ L2



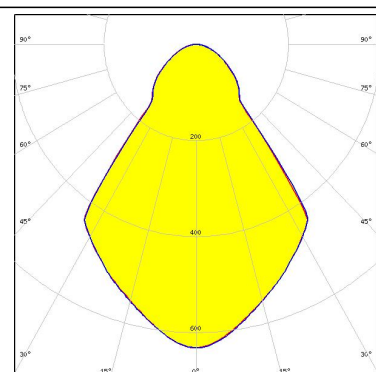
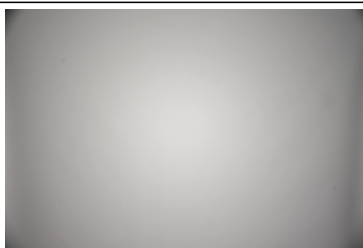
PHOTOMETRIC DATA (MEASURED):

SAMSUNG

LED LC040C
FWHM 72.0°
Efficiency 92 %
Peak intensity 0.630 cd/lm
LEDs/each optic 1
Light colour White

Required components:

TE: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1

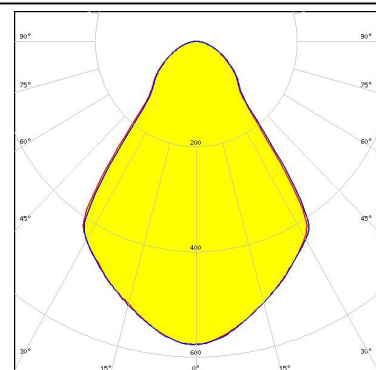
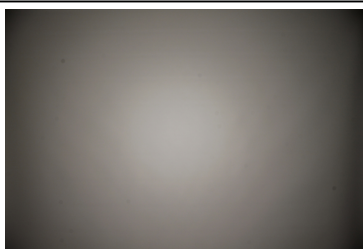


SEOUL SEMICONDUCTOR

LED AC Zhaga COB
FWHM 72.0°
Efficiency 87 %
Peak intensity 0.580 cd/lm
LEDs/each optic 1
Light colour White

Required components:

F13671_ANGE-RZ-LENS
Optosource: SEHSMJD-A

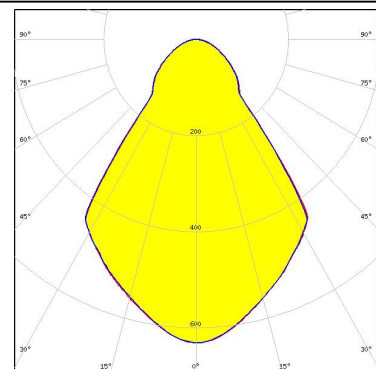
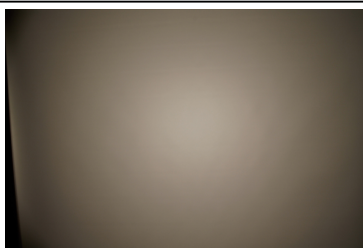


SEOUL SEMICONDUCTOR

LED MJT COB LES 14.5
FWHM 72.0°
Efficiency 92 %
Peak intensity 0.630 cd/lm
LEDs/each optic 1
Light colour White

Required components:

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

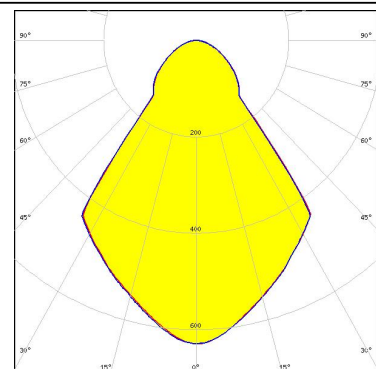
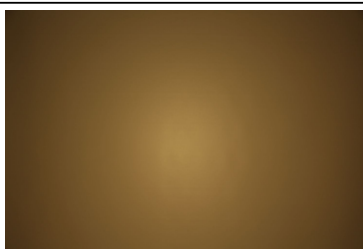


TRIDONIC

LED SLE G5 LES11
FWHM 73.0°
Efficiency 92 %
Peak intensity 0.630 cd/lm
LEDs/each optic 1
Light colour White

Required components:

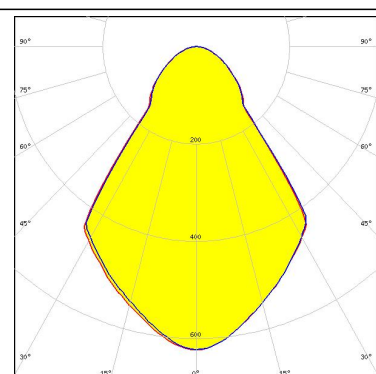
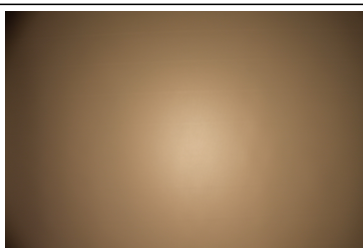
C13658_CLAMP-VERO13-18
Bender Wirth: 434 Typ L1



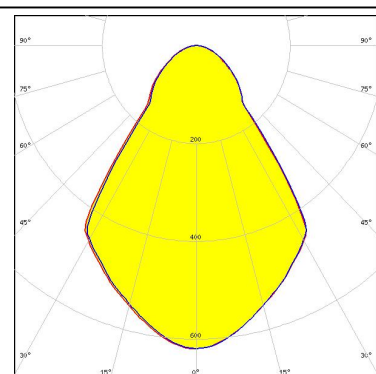
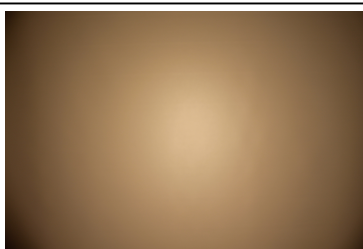
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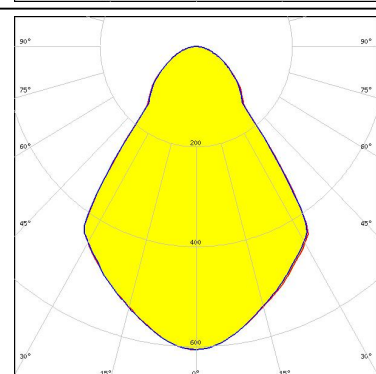
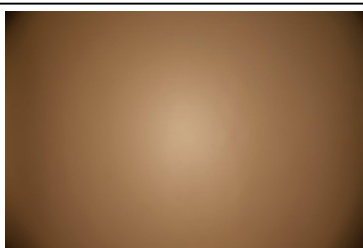
LED WU-M-461
FWHM 72.0°
Efficiency 92 %
Peak intensity 0.600 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1



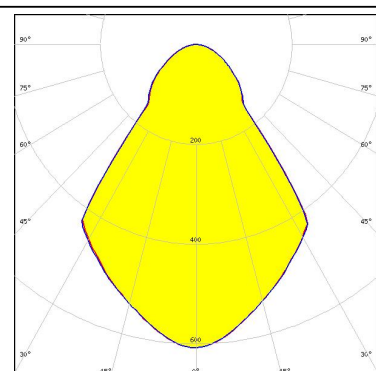
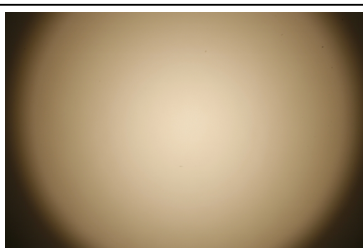
LED WU-M-462
FWHM 72.0°
Efficiency 92 %
Peak intensity 0.600 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1



LED WU-M-464
FWHM 73.0°
Efficiency 92 %
Peak intensity 0.600 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1



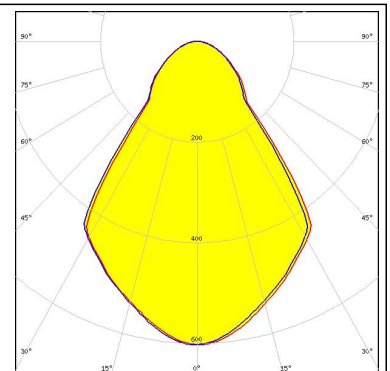
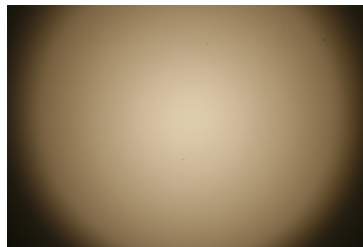
LED WU-M-484
FWHM 73.0°
Efficiency 92 %
Peak intensity 0.608 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1



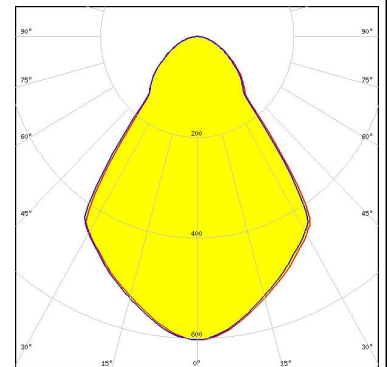
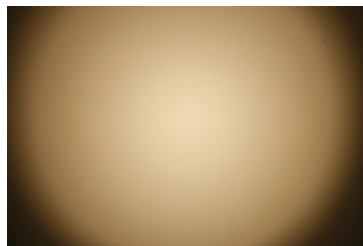
PHOTOMETRIC DATA (MEASURED):



LED WU-M-485
FWHM 73.0°
Efficiency 92 %
Peak intensity 0.600 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1



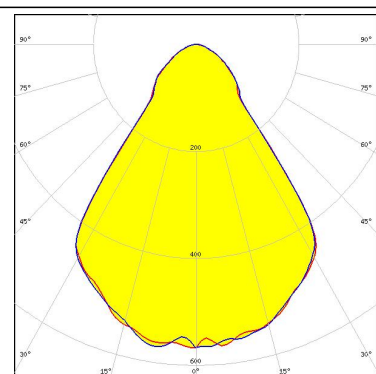
LED WU-M-486
FWHM 73.0°
Efficiency 92 %
Peak intensity 0.600 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1



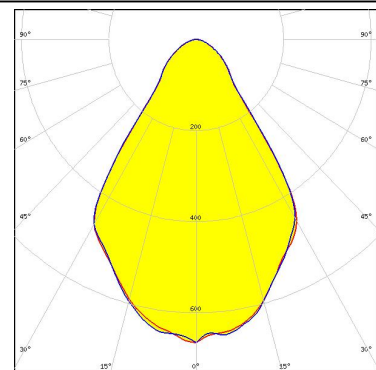
PHOTOMETRIC DATA (SIMULATED):



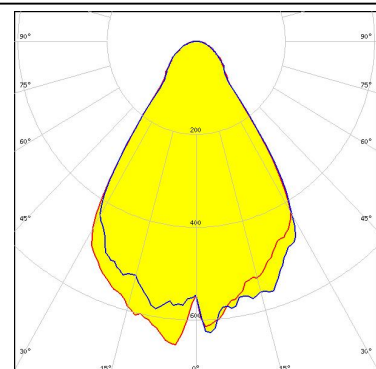
LED V10 Gen7
FWHM 72.0°
Efficiency 86 %
Peak intensity 0.580 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 486 Typ L1



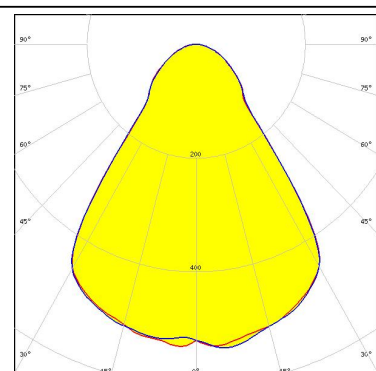
LED V13 Gen7
FWHM 69.0°
Efficiency 86 %
Peak intensity 0.667 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2103CT + 50-2100AN



LED V22 Gen7
FWHM 66.0°
Efficiency 80 %
Peak intensity 0.658 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2204-CT + 50-2100AN



LED CXA/B 1830
FWHM 73.0°
Efficiency 88 %
Peak intensity 0.540 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1



PHOTOMETRIC DATA (SIMULATED):



LED CxM-14 (19x19)
FWHM 72.0°
Efficiency 93 %
Peak intensity 0.630 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 433 Typ L1



LED CxM-9 (13.5x13.5)
FWHM 72.0°
Efficiency 93 %
Peak intensity 0.640 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 434 Typ L1



SEOUL SEMICONDUCTOR

LED ZC12/18
FWHM 72.0°
Efficiency 93 %
Peak intensity 0.630 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 72.0°
Efficiency 93 %
Peak intensity 0.640 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.

PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

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

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