

ANGELINA-M

~30° medium beam

SPECIFICATION:

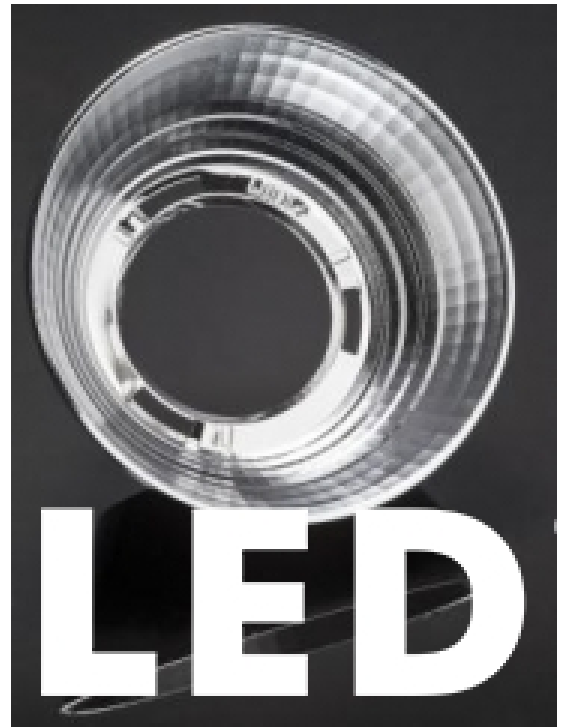
Dimensions	Ø 82.0 mm
Height	31 mm
Fastening	socket
ROHS compliant	yes ⓘ

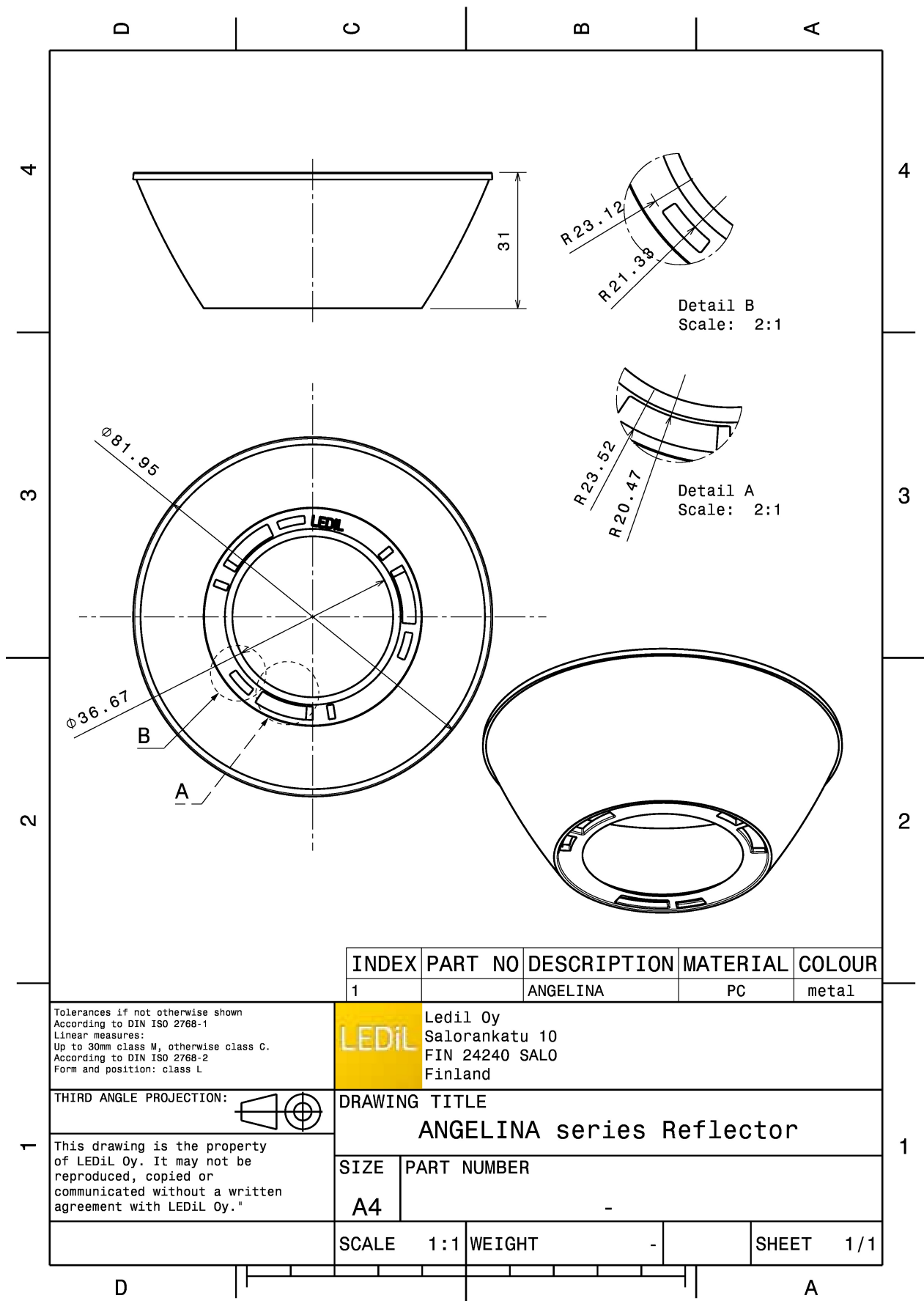
MATERIALS:

Component	Type	Material	Colour	Finish	Coating
ANGELINA-M	Reflector	PC	metal		HMDS

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
F13401_ANGELINA-M » Box size: 480 x 280 x 300 mm	900	120	60	11.0



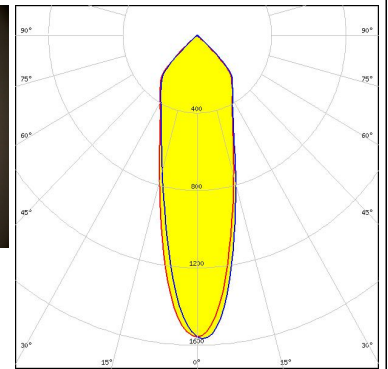
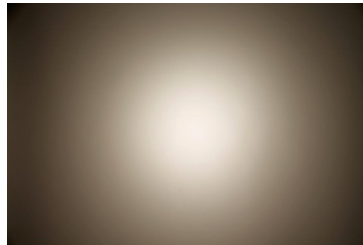


See also our general installation guide: www.ledil.com/installation_guide

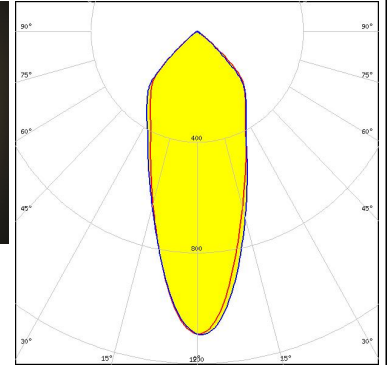
OPTICAL RESULTS (MEASURED):



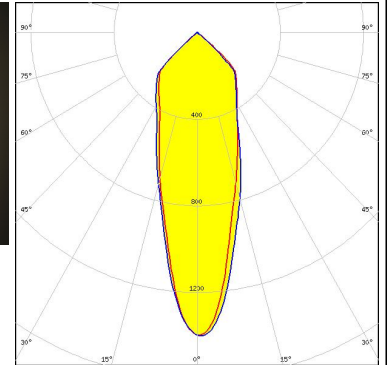
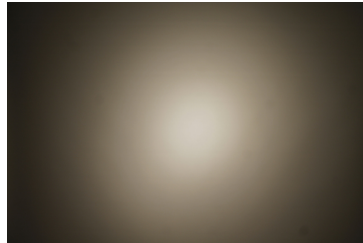
LED BXRA ES Rectangle
FWHM / FWTM 30.0° / 93.0°
Efficiency 93 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2100BL + 50-2100AN



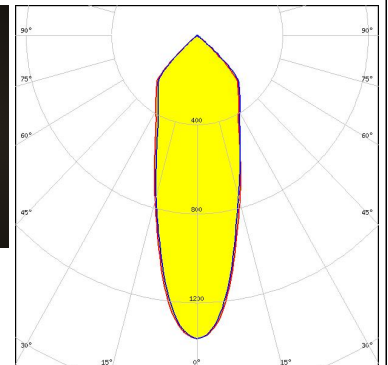
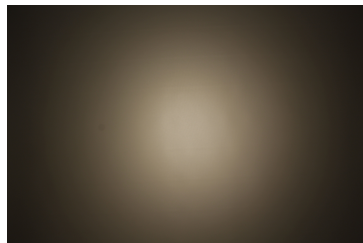
LED V10 Gen7
FWHM / FWTM 38.0° / 99.0°
Efficiency 87 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
F13671_ANGE-RZ-LENS
Bender Wirth: 434 Typ L1



LED V10 Gen7
FWHM / FWTM 30.0° / 97.0°
Efficiency 92 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 434 Typ L1



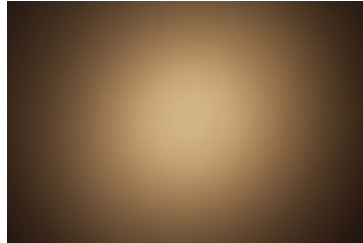
LED V13 Gen7
FWHM / FWTM 34.0° / 95.0°
Efficiency 92 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE Connectivity: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



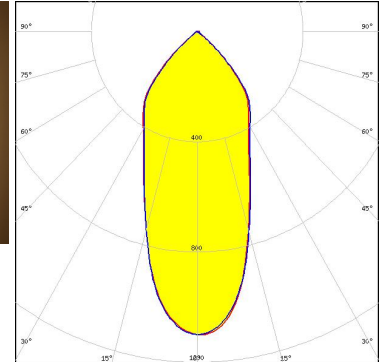
OPTICAL RESULTS (MEASURED):



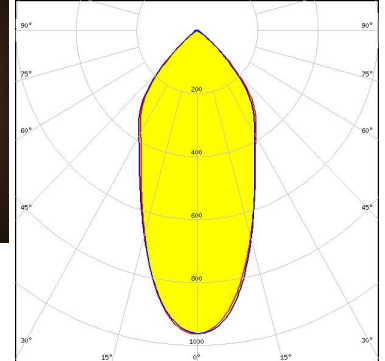
LED V15 Gen6
FWHM / FWTM 37.0° / 98.0°
Efficiency 92 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 456 Typ L2



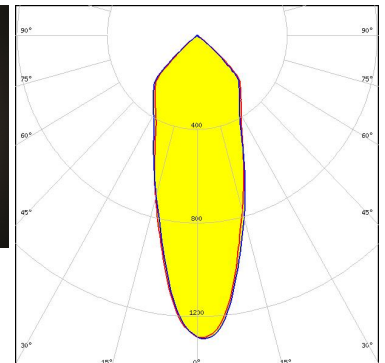
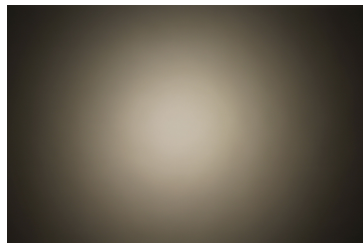
LED V22 Gen6
FWHM / FWTM 43.0° / 96.0°
Efficiency 91 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2204-CT + 50-2100AN



LED V22 Gen6
FWHM / FWTM 47.0° / 98.0°
Efficiency 87 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
IDEAL: 50-2204-CT + 50-2100AN



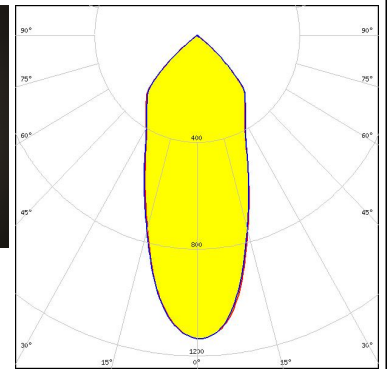
LED Vero SE 13
FWHM / FWTM 36.0° / 97.0°
Efficiency 93 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C16402_CLAMP-VEROSE-13-18



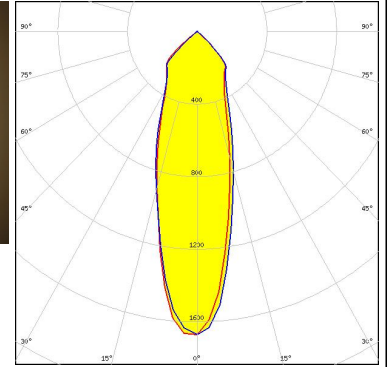
OPTICAL RESULTS (MEASURED):



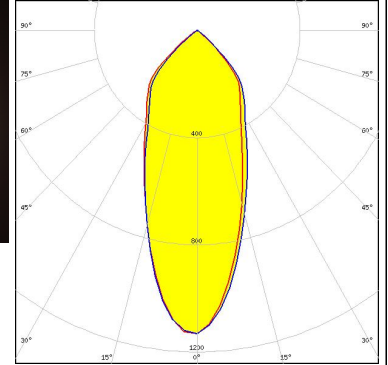
LED Vero SE 18
FWHM / FWTM 42.0° / 98.0°
Efficiency 93 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C16402_CLAMP-VEROSE-13-18



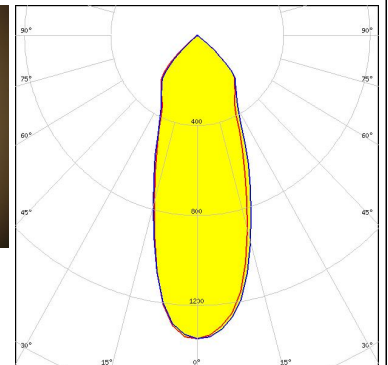
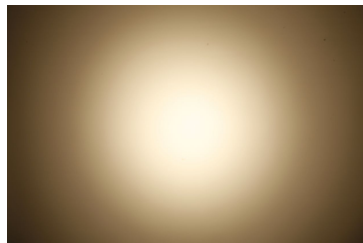
LED VERO13
FWHM / FWTM 31.0° / 94.0°
Efficiency 92 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18



LED VERO13
FWHM / FWTM 42.0° / 98.0°
Efficiency 87 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
F13671_ANGE-RZ-LENS



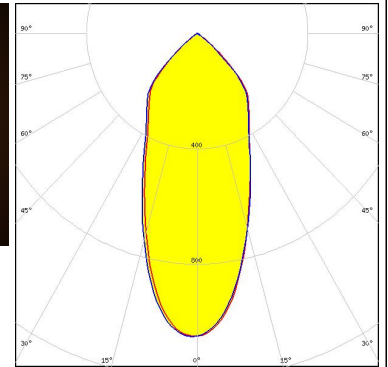
LED VERO18
FWHM / FWTM 38.0° / 95.0°
Efficiency 92 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18



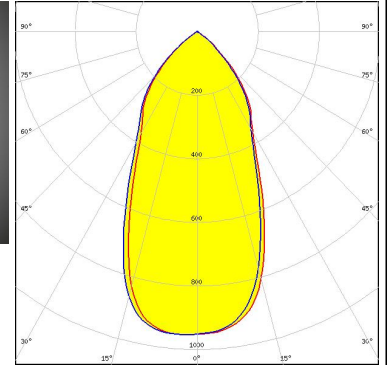
OPTICAL RESULTS (MEASURED):



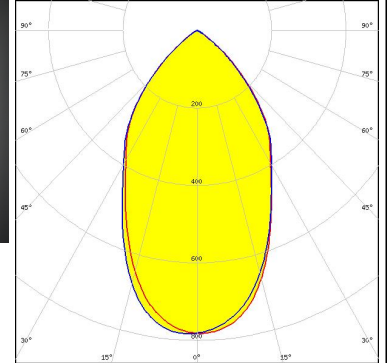
LED VERO18
FWHM / FWTM 43.0° / 99.0°
Efficiency 89 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
F13671_ANGE-RZ-LENS



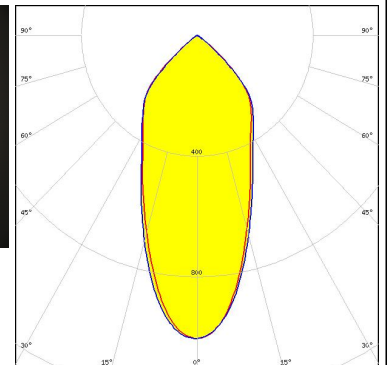
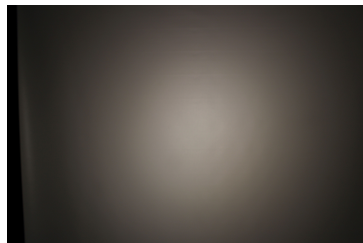
LED VERO29
FWHM / FWTM 51.0° / 99.0°
Efficiency 90 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13584_CLAMP-VERO29



LED VERO29
FWHM / FWTM 60.0° / 104.0°
Efficiency 87 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13584_CLAMP-VERO29
F13671_ANGE-RZ-LENS



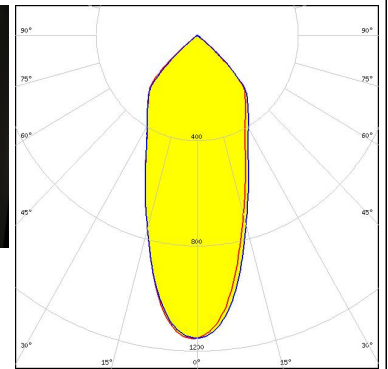
LED Vesta TW 15mm DP
FWHM / FWTM 45.0° / 100.0°
Efficiency 89 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour Tunable White
Required components:
C13658_CLAMP-VERO13-18
F13671_ANGE-RZ-LENS
Bender Wirth: 482 Typ L2



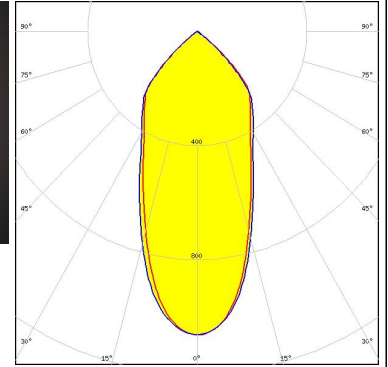
OPTICAL RESULTS (MEASURED):



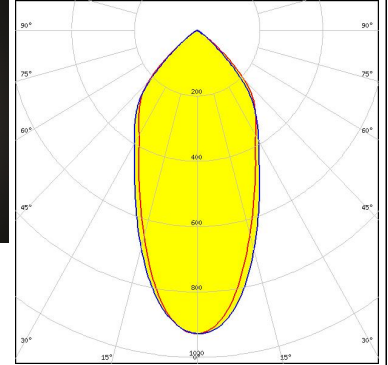
LED Vesta TW 15mm DP
FWHM / FWTM 41.0° / 98.0°
Efficiency 93 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour Tunable White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 482 Typ L2



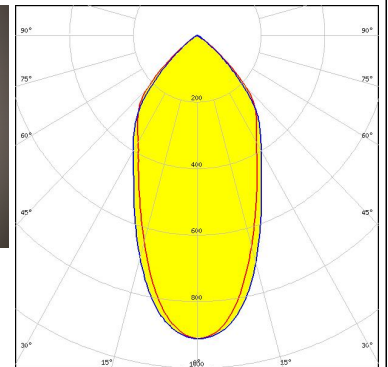
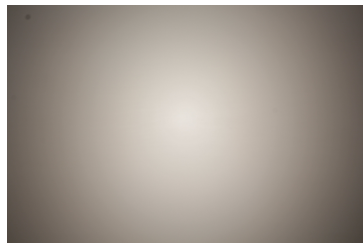
LED Vesta TW 18mm (31W) DP
FWHM / FWTM 45.0° / 99.0°
Efficiency 93 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour Tunable White
Required components:
C13584_CLAMP-VERO29
Bender Wirth: 483 Typ L3



LED Vesta TW 18mm (31W) DP
FWHM / FWTM 49.0° / 101.0°
Efficiency 89 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour Tunable White
Required components:
C13584_CLAMP-VERO29
F13671_ANGE-RZ-LENS
Bender Wirth: 483 Typ L3



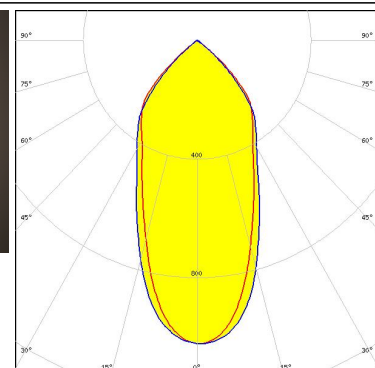
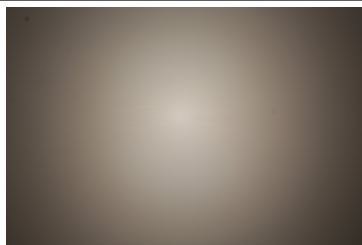
LED Vesta TW 22mm DP
FWHM / FWTM 50.0° / 101.0°
Efficiency 88 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour Tunable White
Required components:
C13584_CLAMP-VERO29
F13671_ANGE-RZ-LENS
Bender Wirth: 494 Typ L3



OPTICAL RESULTS (MEASURED):

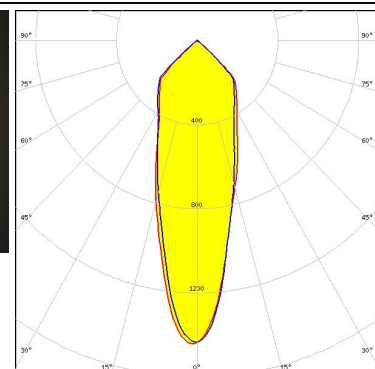
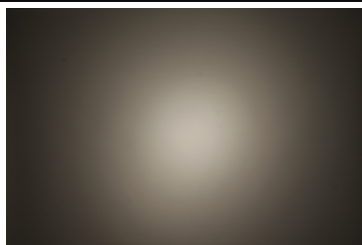


LED Vesta TW 22mm DP
FWHM / FWTM 47.0° / 99.0°
Efficiency 93 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour Tunable White
Required components:
C13584_CLAMP-VERO29
Bender Wirth: 494 Typ L3



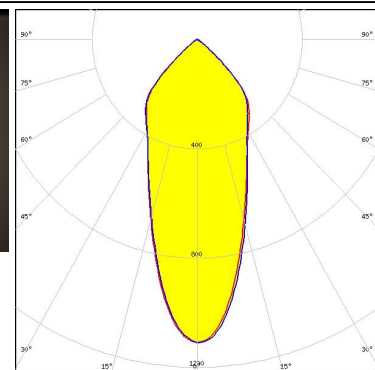
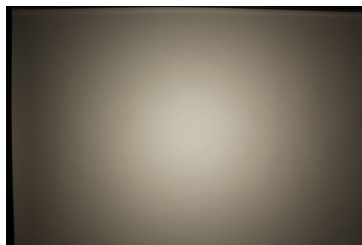
CITIZEN

LED CLL02x/CLU02x (LES10)
FWHM / FWTM 31.0° / 96.0°
Efficiency 92 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 434 Typ L1



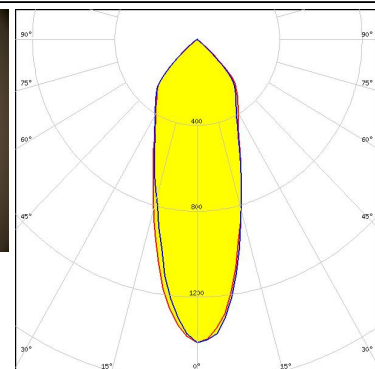
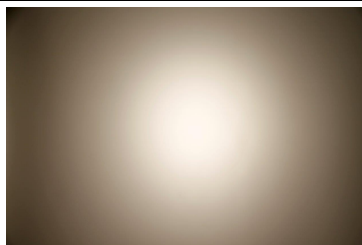
CITIZEN

LED CLL03x/CLU03x
FWHM / FWTM 39.0° / 98.0°
Efficiency 90 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C16791_CLAMP-Z45-A
F13671_ANGE-RZ-LENS
TE Connectivity: 2325807-3



CITIZEN

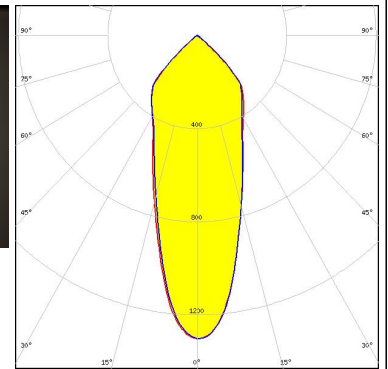
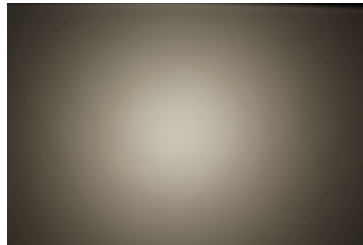
LED CLL03x/CLU03x
FWHM / FWTM 30.0° / 92.0°
Efficiency 92 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2103CT + 50-2100AN



OPTICAL RESULTS (MEASURED):

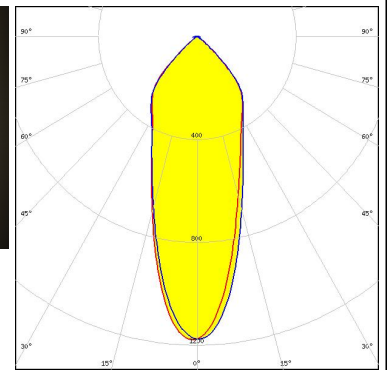
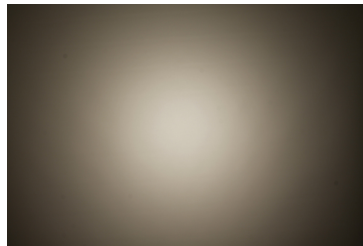
CITIZEN

LED CLL03x/CLU03x
FWHM / FWTM 36.0° / 96.0°
Efficiency 94 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C16791_CLAMP-Z45-A
TE Connectivity: 2325807-3



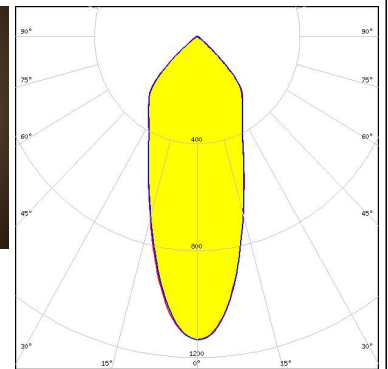
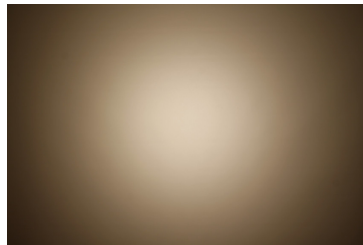
CITIZEN

LED CLL03x/CLU03x
FWHM / FWTM 36.0° / 95.0°
Efficiency 87 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
IDEAL: 50-2103CT + 50-2100AN



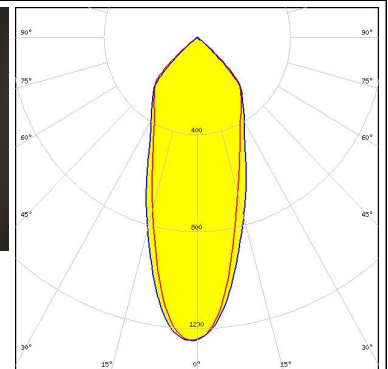
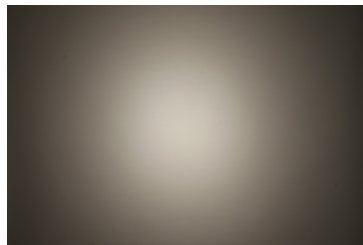
CITIZEN

LED CLL03x/CLU03x
FWHM / FWTM 38.0° / 97.0°
Efficiency 87 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
TE Connectivity: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



CITIZEN

LED CLL03x/CLU03x
FWHM / FWTM 37.0° / 97.0°
Efficiency 91 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 433 Typ L1



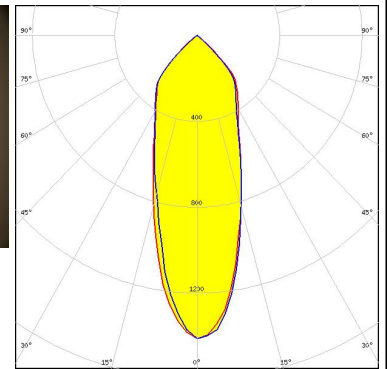
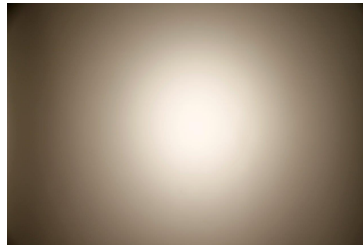
OPTICAL RESULTS (MEASURED):

CITIZEN

LED CLL03x/CLU03x
FWHM / FWTM 35.0° / 95.0°
Efficiency 94 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White

Required components:

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



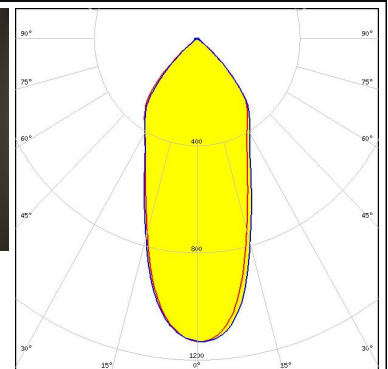
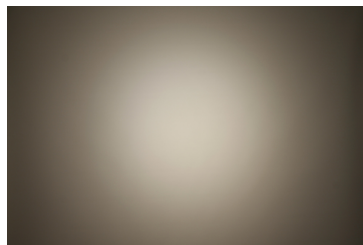
CITIZEN

LED CLL04x/CLU04x
FWHM / FWTM 42.0° / 96.0°
Efficiency 92 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White

Required components:

C13584_CLAMP-VERO29

Bender Wirth: 431 Typ L3

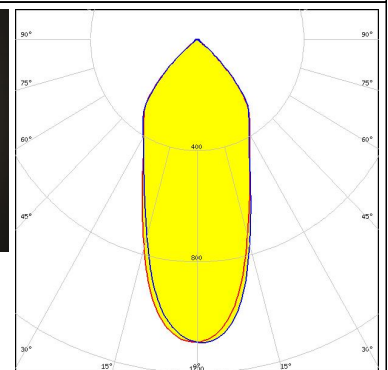
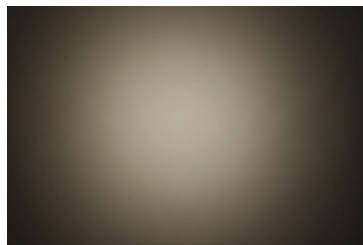


CITIZEN

LED CLL04x/CLU04x
FWHM / FWTM 43.0° / 96.0°
Efficiency 91 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White

Required components:

IDEAL: 50-2204-CT + 50-2100AN



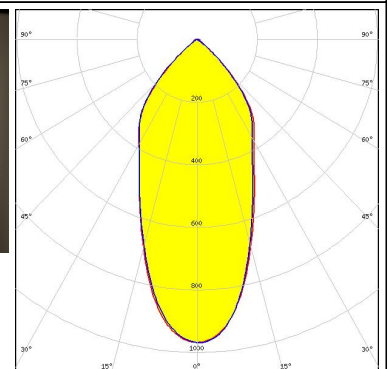
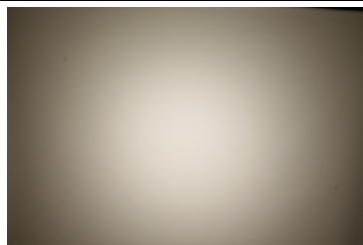
CITIZEN

LED CLL04x/CLU04x
FWHM / FWTM 46.0° / 98.0°
Efficiency 87 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White

Required components:

F13671_ANGE-RZ-LENS

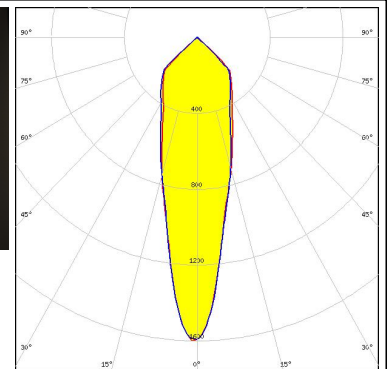
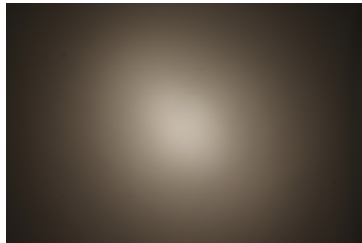
IDEAL: 50-2204-CT + 50-2100AN



OPTICAL RESULTS (MEASURED):

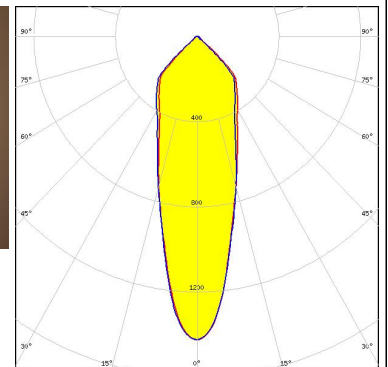
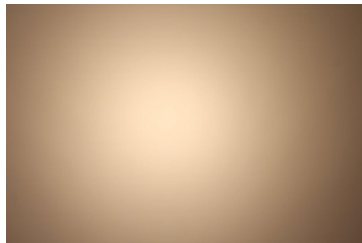
CITIZEN

LED CLU700/701/702/703
 FWHM / FWTM 26.0° / 96.0°
 Efficiency 92 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 434 Typ L1



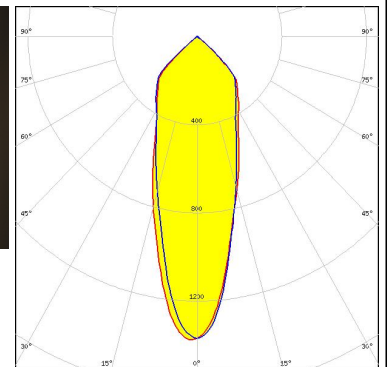
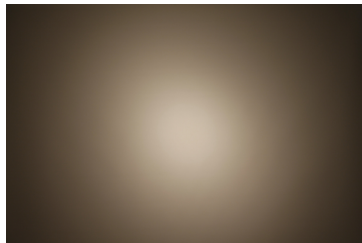
CITIZEN

LED CLU720/721/723
 FWHM / FWTM 31.0° / 95.0°
 Efficiency 94 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE Connectivity: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



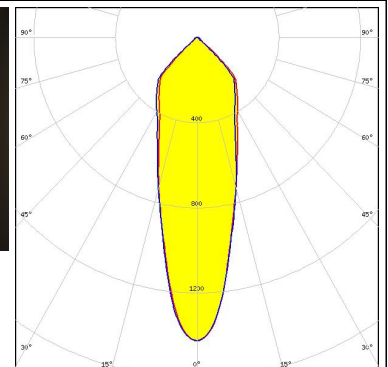
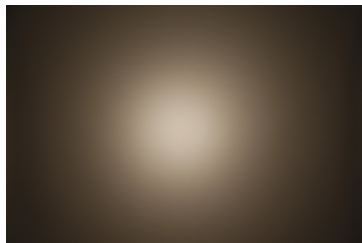
CITIZEN

LED CLU720/721/723
 FWHM / FWTM 33.0° / 96.0°
 Efficiency 91 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13658_CLAMP-VERO13-18



CITIZEN

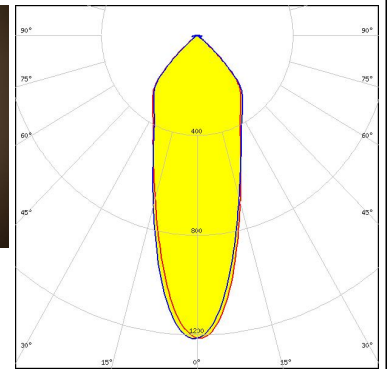
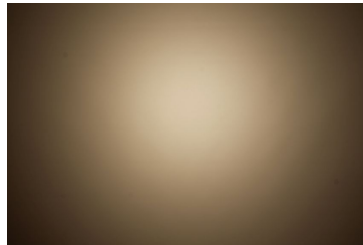
LED CLU720/721/723
 FWHM / FWTM 26.0° / 92.0°
 Efficiency 93 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 IDEAL: 50-2103CT + 50-2100AN



OPTICAL RESULTS (MEASURED):

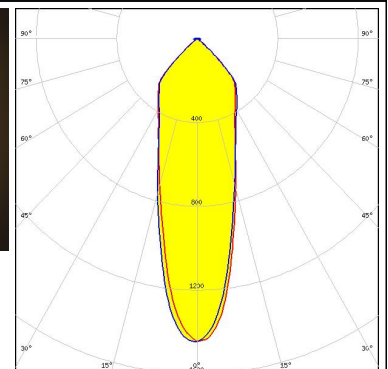
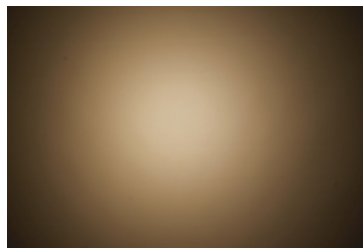
CITIZEN

LED CLU730/731/733
FWHM / FWTM 35.0° / 95.0°
Efficiency 87 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
IDEAL: 50-2204-CT + 50-2100AN



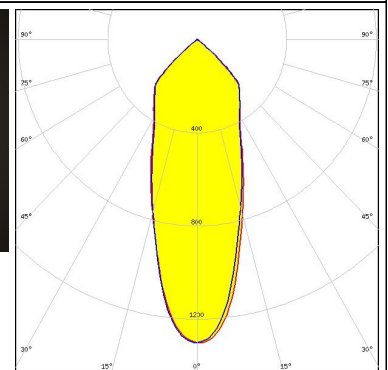
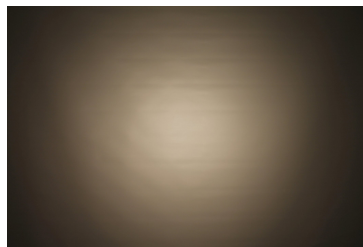
CITIZEN

LED CLU730/731/733
FWHM / FWTM 31.0° / 93.0°
Efficiency 91 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2204-CT + 50-2100AN



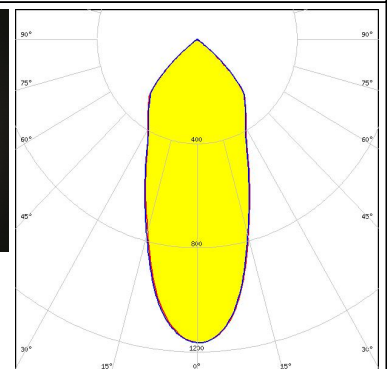
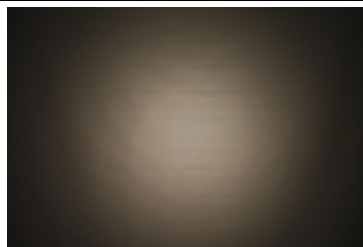
CREE LEDs

LED CMA1840
FWHM / FWTM 37.0° / 97.0°
Efficiency 94 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14123_CLAMP-CXA15-18



CREE LEDs

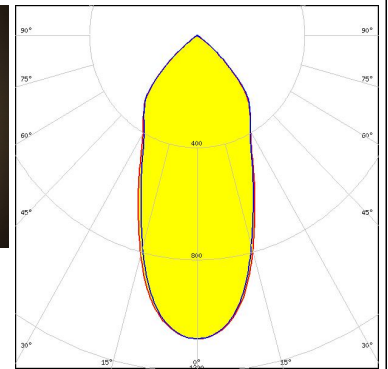
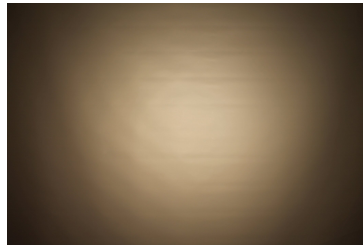
LED CMA2550
FWHM / FWTM 42.0° / 98.0°
Efficiency 94 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14036_CLAMP_CXA25-30



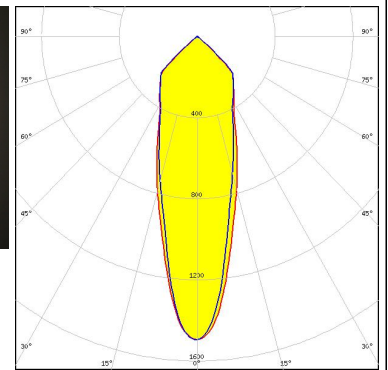
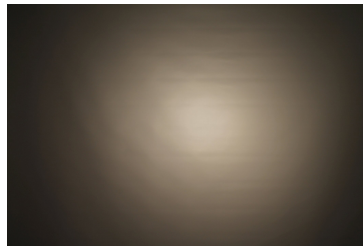
OPTICAL RESULTS (MEASURED):



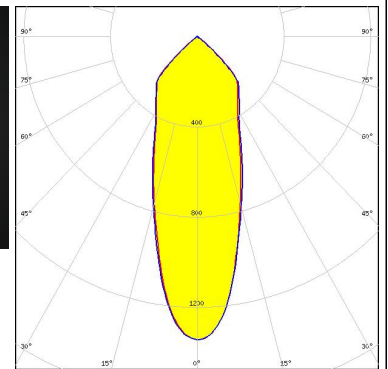
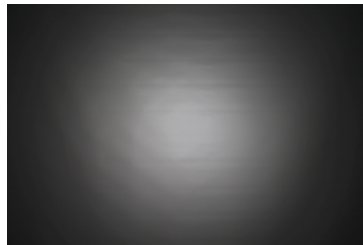
LED CMA3090
FWHM / FWTM 46.0° / 99.0°
Efficiency 94 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14036_CLAMP_CXA25-30



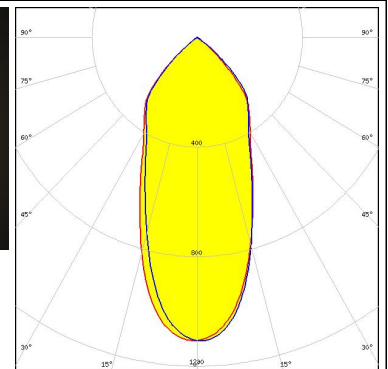
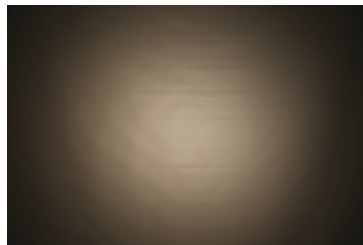
LED CMT14xx
FWHM / FWTM 30.0° / 96.0°
Efficiency 93 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 434 Typ L1



LED CMT19xx
FWHM / FWTM 36.0° / 97.0°
Efficiency 94 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 477 Typ L1



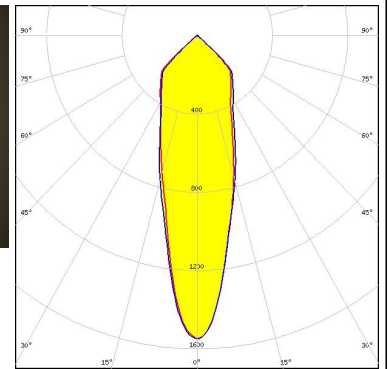
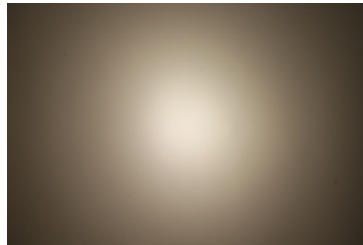
LED CMT28xx
FWHM / FWTM 44.0° / 98.0°
Efficiency 94 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13584_CLAMP-VERO29
Bender Wirth: 471 Typ L3



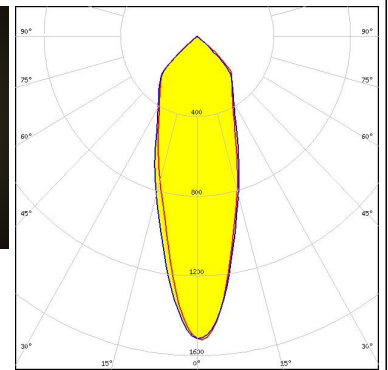
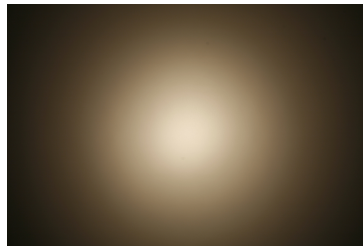
OPTICAL RESULTS (MEASURED):



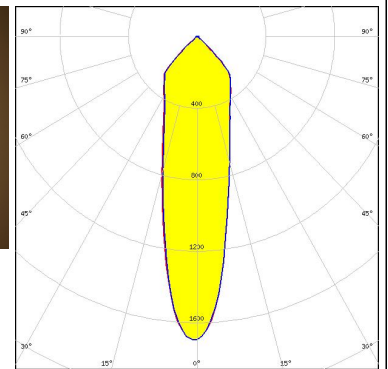
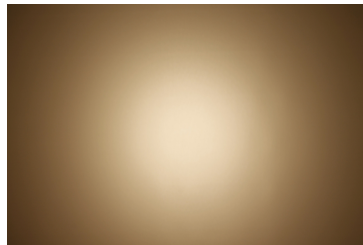
LED CXA/B 15xx
FWHM / FWTM 28.0° / 96.0°
Efficiency 92 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 441 Typ L1



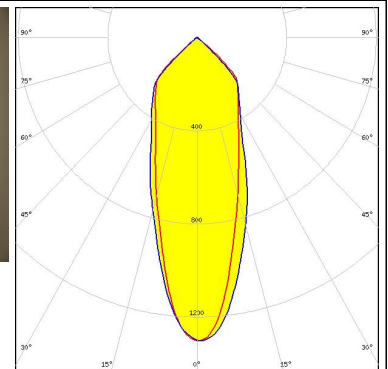
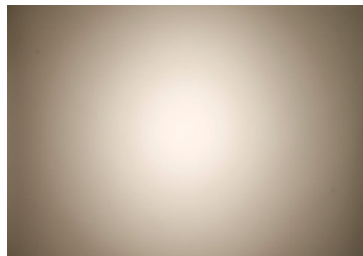
LED CXA/B 15xx
FWHM / FWTM 33.0° / 96.0°
Efficiency 94 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14123_CLAMP-CXA15-18



LED CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM / FWTM 26.0° / 92.0°
Efficiency 93 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2101CR + 50-2100AN



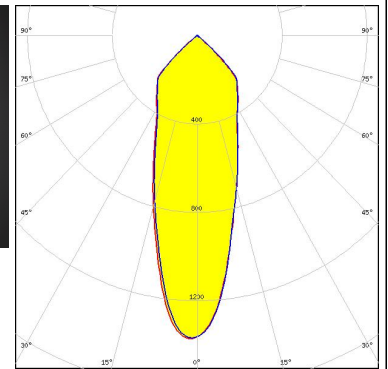
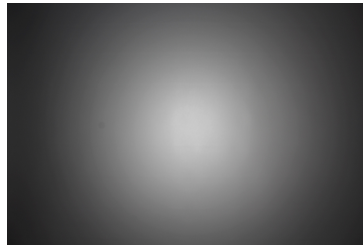
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM / FWTM 36.0° / 97.0°
Efficiency 91 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 437 Typ L1



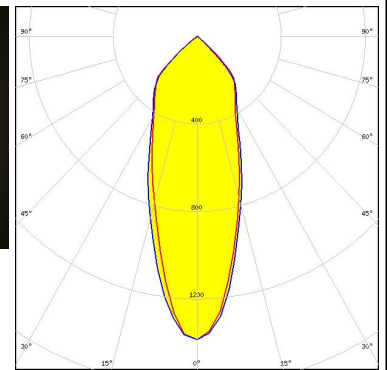
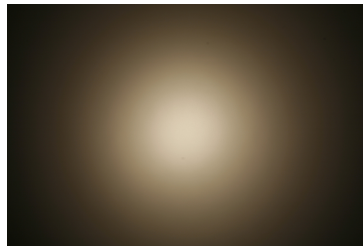
OPTICAL RESULTS (MEASURED):



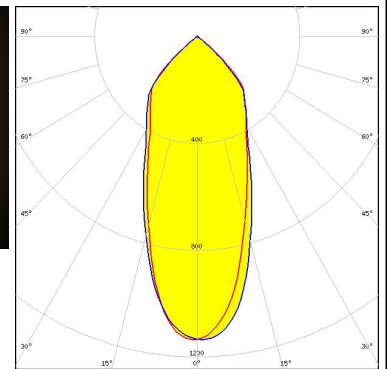
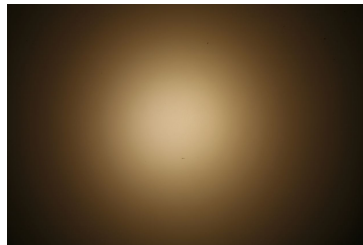
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM / FWTM 33.0° / 96.0°
Efficiency 92 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE Connectivity: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1



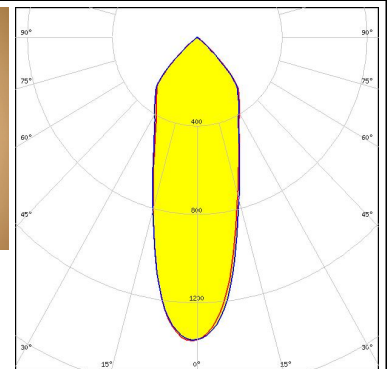
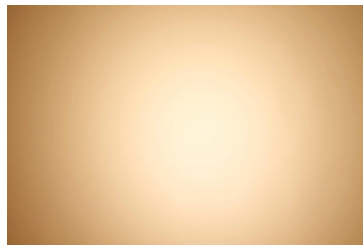
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM / FWTM 37.0° / 97.0°
Efficiency 94 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14123_CLAMP-CXA15-18



LED CXA/B 25xx
FWHM / FWTM 42.0° / 98.0°
Efficiency 92 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14036_CLAMP_CXA25-30



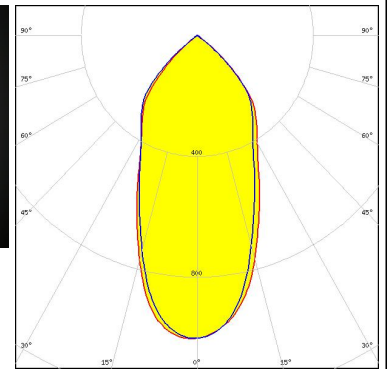
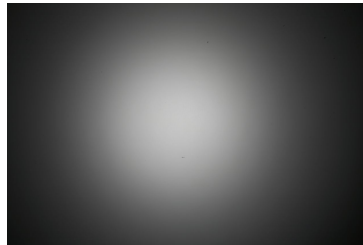
LED CXA/B 25xx
FWHM / FWTM 34.0° / 94.0°
Efficiency 93 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2102CR + 50-2100AN



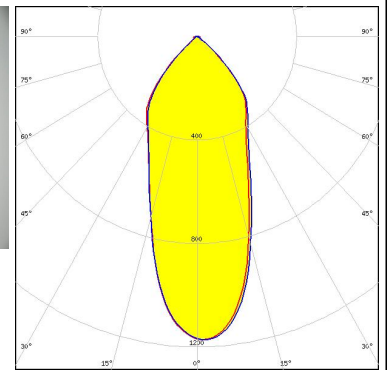
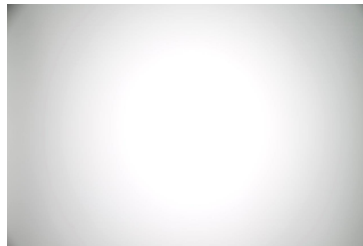
OPTICAL RESULTS (MEASURED):



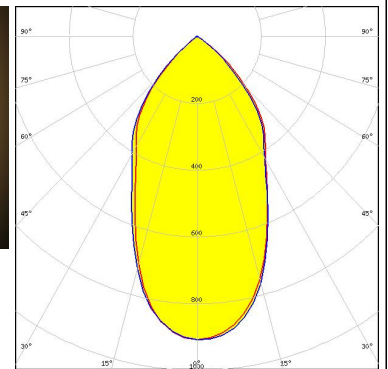
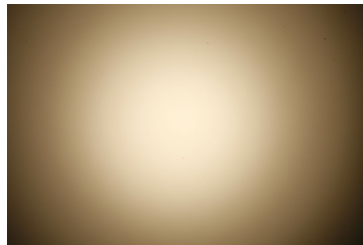
LED CXA/B 30xx
FWHM / FWTM 48.0° / 100.0°
Efficiency 91 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14036_CLAMP_CXA25-30



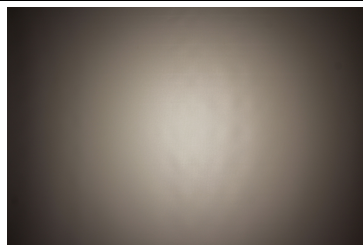
LED CXA/B 30xx
FWHM / FWTM 40.0° / 95.0°
Efficiency 93 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2234C + 50-2100AN



LED CXA/B 3590
FWHM / FWTM 54.0° / 101.0°
Efficiency 92 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2303CR + 50-2300AN



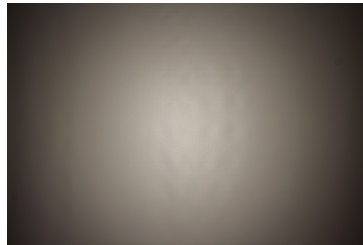
LED CHI3030 19W
FWHM / FWTM 43.0° / 90.0°
Efficiency 87 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13584_CLAMP-VERO29
F13671_ANGE-RZ-LENS
Bender Wirth: 468 Typ L3



OPTICAL RESULTS (MEASURED):

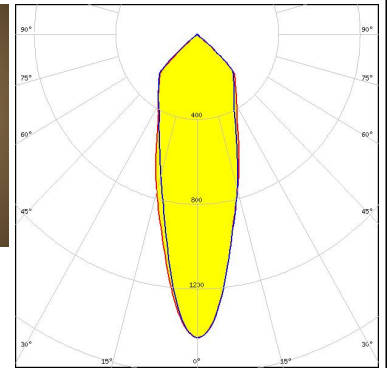
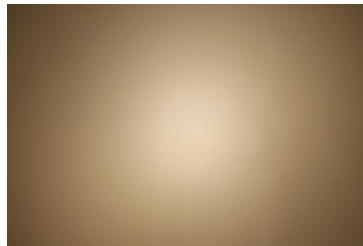
EVERLIGHT

LED CHI3030 29W
FWHM / FWTM 52.0° / 90.0°
Efficiency 87 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13584_CLAMP-VERO29
F13671_ANGE-RZ-LENS
Bender Wirth: 468 Typ L3



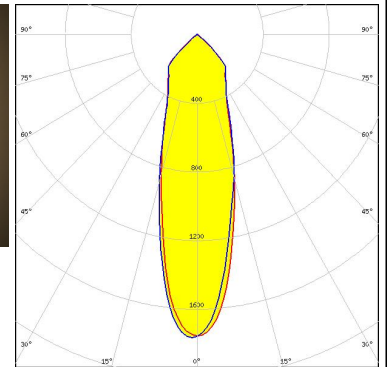
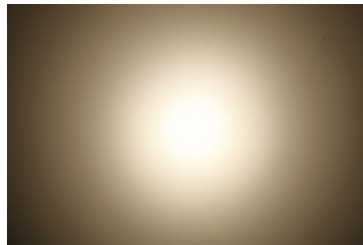
LUMILEDS

LED LUXEON CoB 1202/1203
FWHM / FWTM 32.0° / 96.0°
Efficiency 92 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 438 Typ L1



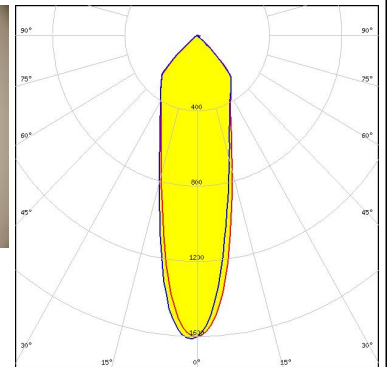
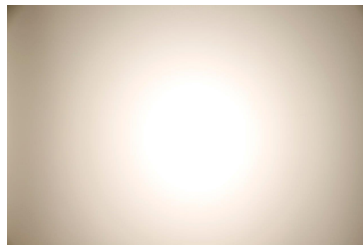
LUMILEDS

LED LUXEON CoB 1204/1205
FWHM / FWTM 30.0° / 93.0°
Efficiency 94 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



LUMILEDS

LED LUXEON CoB 1204/1205
FWHM / FWTM 28.0° / 92.0°
Efficiency 92 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2100SH + 50-2100AN



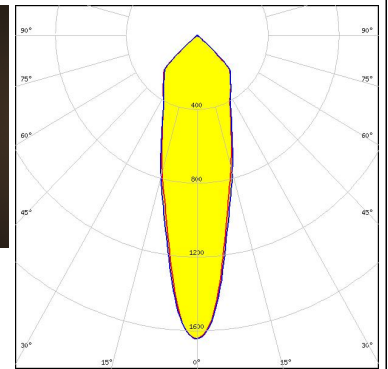
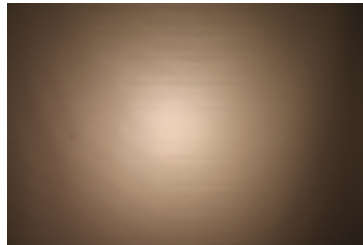
OPTICAL RESULTS (MEASURED):

LUMILEDS

LED LUXEON CoB 1204HD
FWHM / FWTM 27.0° / 95.0°
Efficiency 93 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour White

Required components:

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

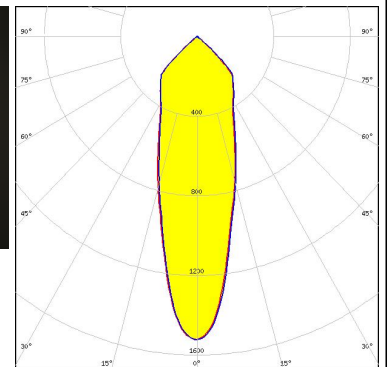
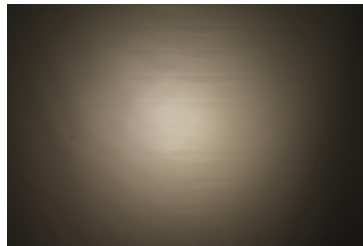


LUMILEDS

LED LUXEON CoB 1205HD
FWHM / FWTM 30.0° / 95.0°
Efficiency 93 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour White

Required components:

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



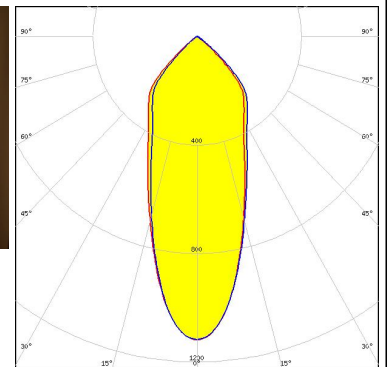
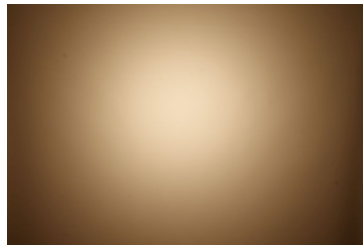
LUMILEDS

LED LUXEON CoB 1208
FWHM / FWTM 39.0° / 97.0°
Efficiency 87 %
Peak intensity 1.1 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

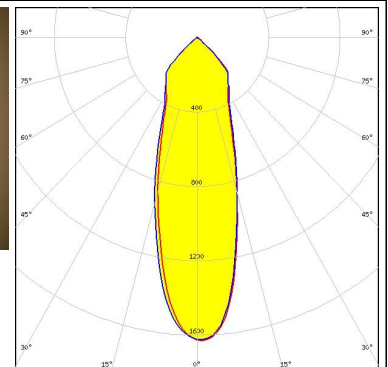
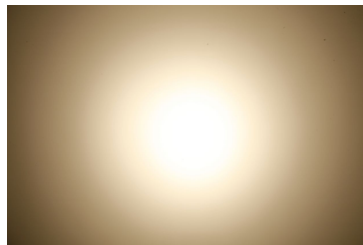


LUMILEDS

LED LUXEON CoB 1208
FWHM / FWTM 32.0° / 93.0°
Efficiency 93 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour White

Required components:

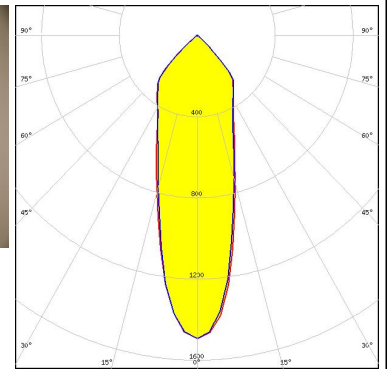
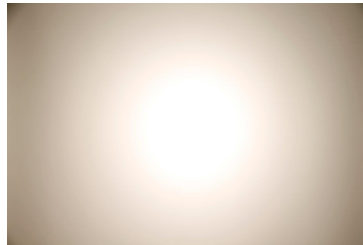
TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



OPTICAL RESULTS (MEASURED):

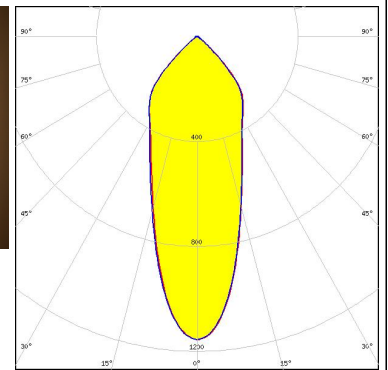
LUMILEDS

LED LUXEON CoB 1208
FWHM / FWTM 31.0° / 93.0°
Efficiency 93 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2100SH + 50-2100AN



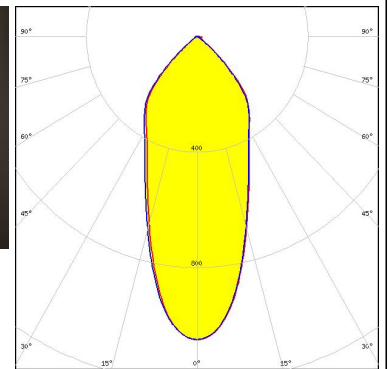
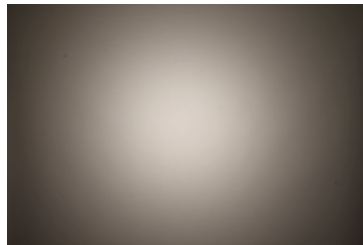
LUMILEDS

LED LUXEON CoB 1208
FWHM / FWTM 36.0° / 95.0°
Efficiency 86 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
IDEAL: 50-2100SH + 50-2100AN



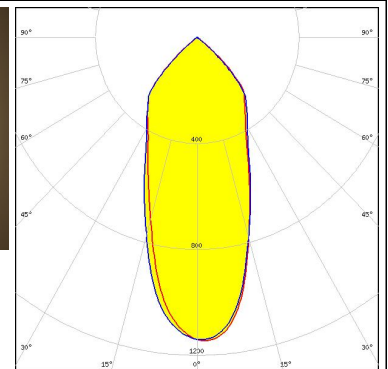
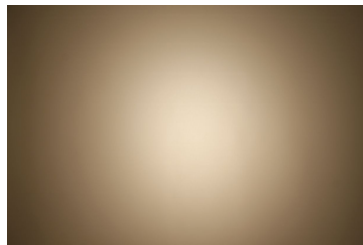
LUMILEDS

LED LUXEON CoB 1211
FWHM / FWTM 41.0° / 97.0°
Efficiency 87 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
IDEAL: 50-2204-CT + 50-2100AN



LUMILEDS

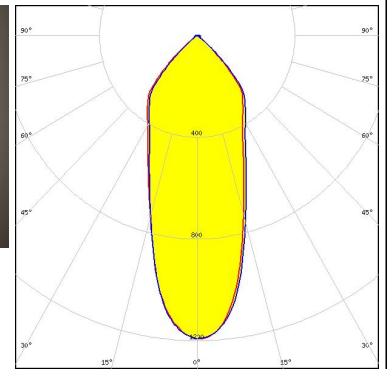
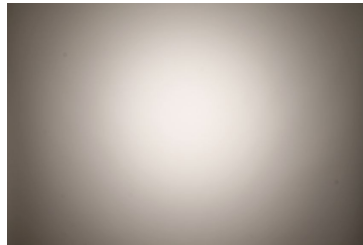
LED LUXEON CoB 1211
FWHM / FWTM 42.0° / 97.0°
Efficiency 92 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13584_CLAMP-VERO29
Bender Wirth: 431 Typ L3



OPTICAL RESULTS (MEASURED):

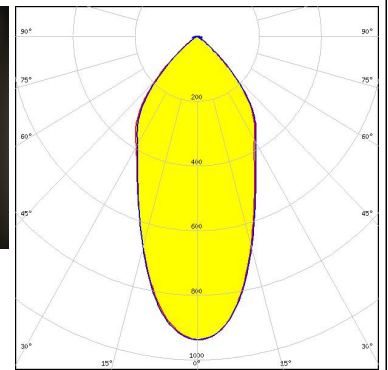
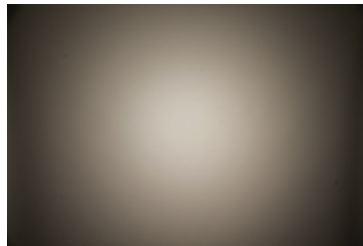
LUMILEDS

LED LUXEON CoB 1211
FWHM / FWTM 39.0° / 95.0°
Efficiency 91 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2204-CT + 50-2100AN



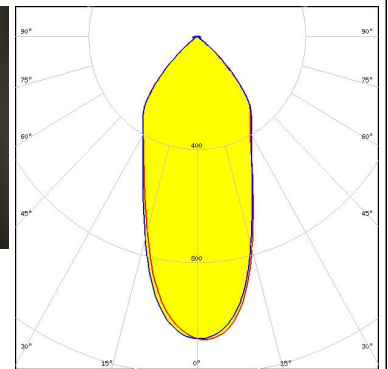
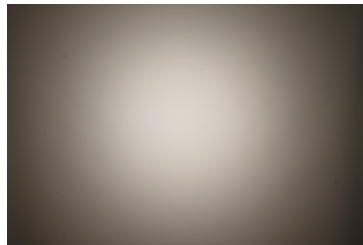
LUMILEDS

LED LUXEON CoB 1213/1216/1812
FWHM / FWTM 48.0° / 99.0°
Efficiency 87 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
IDEAL: 50-2204-CT + 50-2100AN



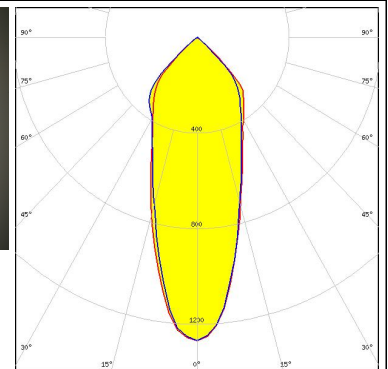
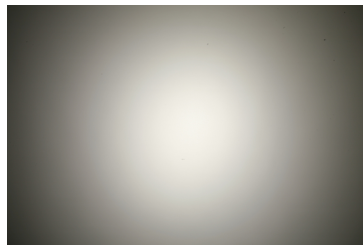
LUMILEDS

LED LUXEON CoB 1213/1216/1812
FWHM / FWTM 44.0° / 96.0°
Efficiency 91 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2204-CT + 50-2100AN



LUMILEDS

LED LUXEON K12
FWHM / FWTM 37.0° / 96.0°
Efficiency 89 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
TE Connectivity: 2213134-2 + OPTIC CLIP Z50 TYPE1 2213194-1



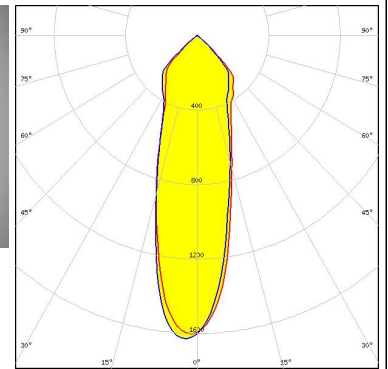
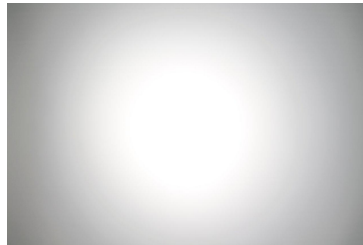
OPTICAL RESULTS (MEASURED):

LUMILEDS

LED LUXEON K12
FWHM / FWTM 29.0° / 94.0°
Efficiency 94 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour White

Required components:

TE Connectivity: 2213134-2 + OPTIC CLIP Z50 TYPE1 2213194-1



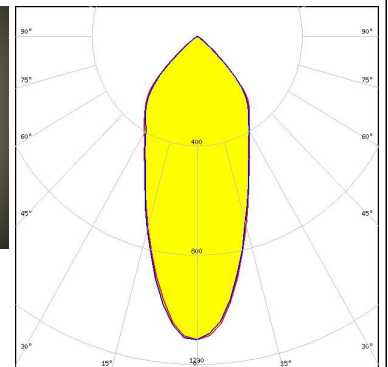
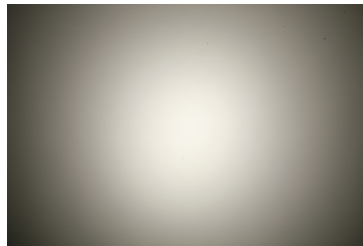
LUMILEDS

LED LUXEON K16
FWHM / FWTM 43.0° / 98.0°
Efficiency 89 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White

Required components:

F13671_ANGE-RZ-LENS

TE Connectivity: 2213134-2 + OPTIC CLIP Z50 TYPE1 2213194-1

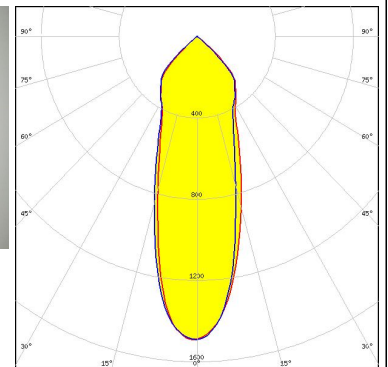
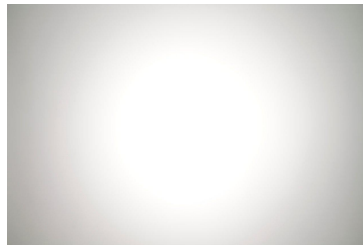


LUMILEDS

LED LUXEON K16
FWHM / FWTM 32.0° / 95.0°
Efficiency 94 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour White

Required components:

TE Connectivity: 2213134-2 + OPTIC CLIP Z50 TYPE1 2213194-1

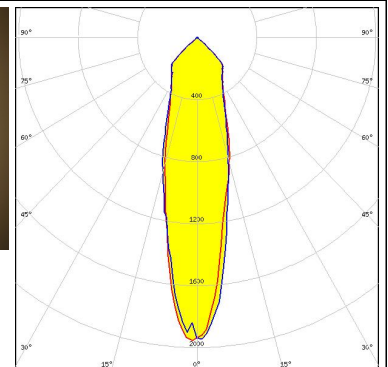
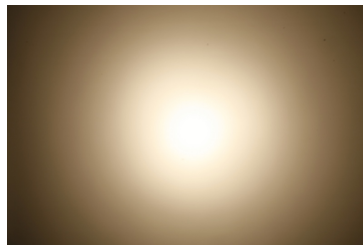


LUMILEDS

LED LUXEON S2000
FWHM / FWTM 25.0° / 92.0°
Efficiency 92 %
Peak intensity 2 cd/lm
LEDs/each optic 1
Light colour White

Required components:

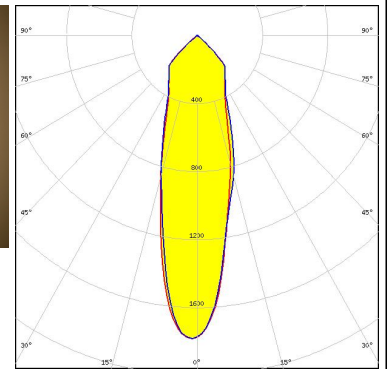
C13395_CLAMP-S2000



OPTICAL RESULTS (MEASURED):

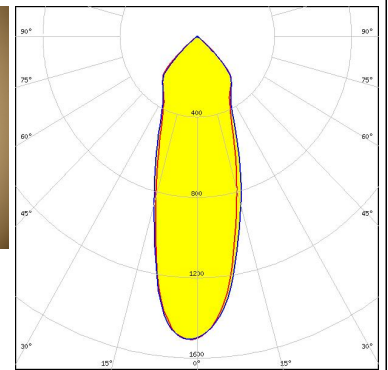
LUMILEDS

LED LUXEON S3000
FWHM / FWTM 28.0° / 93.0°
Efficiency 92 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13397_CLAMP-S3000



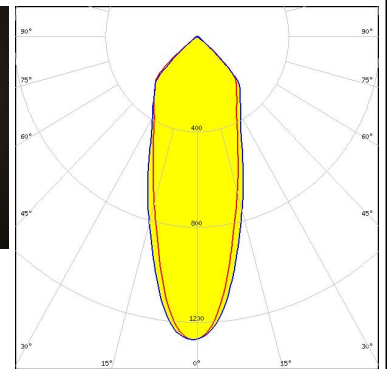
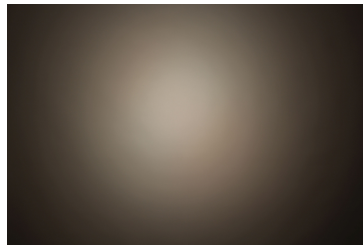
LUMILEDS

LED LUXEON S5000
FWHM / FWTM 33.0° / 94.0°
Efficiency 92 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13399_CLAMP-S5000



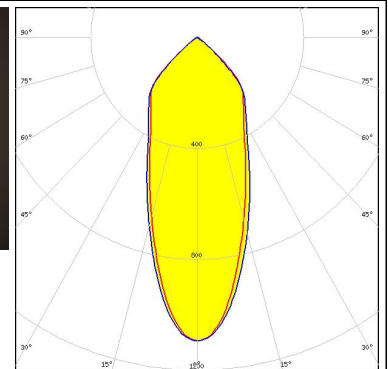
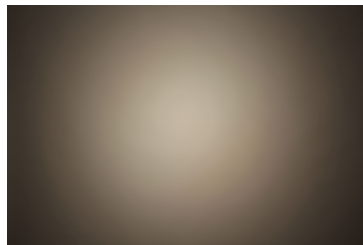
LUMINUS

LED CDM-14 (Dim-To-Warm)
FWHM / FWTM 36.0° / 97.0°
Efficiency 92 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 491 Typ L2



LUMINUS

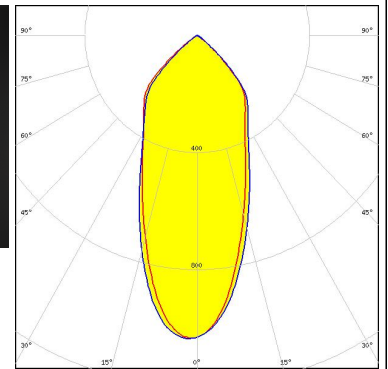
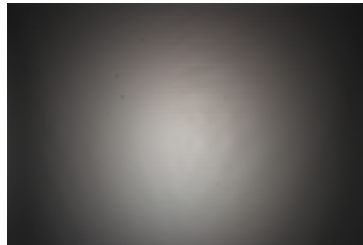
LED CDM-14 (Dim-To-Warm)
FWHM / FWTM 40.0° / 99.0°
Efficiency 88 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
F13671_ANGE-RZ-LENS
Bender Wirth: 491 Typ L2



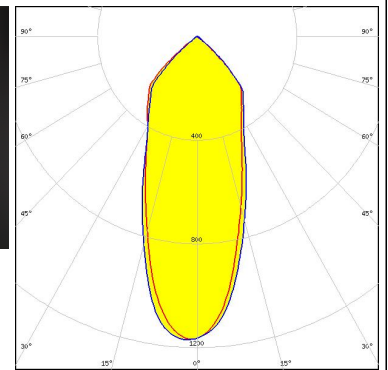
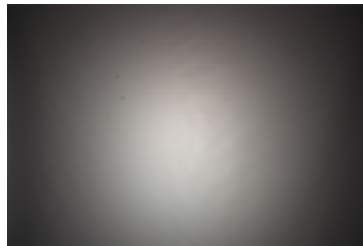
OPTICAL RESULTS (MEASURED):



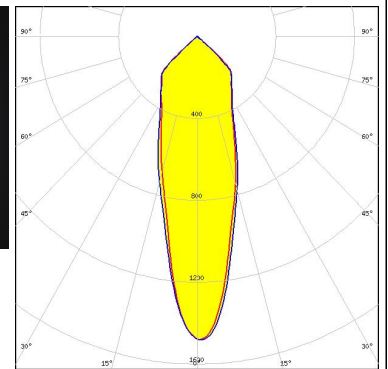
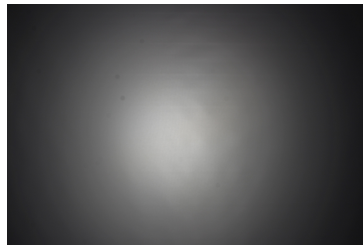
LED CDM-18 (Dim-To-Warm)
 FWHM / FWTM 43.0° / 99.0°
 Efficiency 89 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13658_CLAMP-VERO13-18
 F13671_ANGE-RZ-LENS
 Bender Wirth: 491 Typ L2



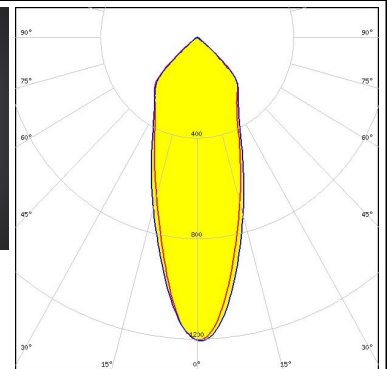
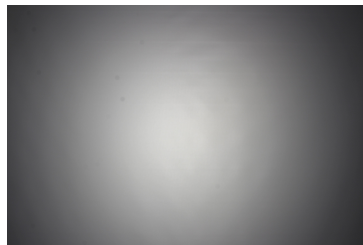
LED CDM-18 (Dim-To-Warm)
 FWHM / FWTM 40.0° / 98.0°
 Efficiency 93 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 491 Typ L2



LED CDM-9 (Dim-To-Warm)
 FWHM / FWTM 30.0° / 96.0°
 Efficiency 91 %
 Peak intensity 1.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 490 Typ L1



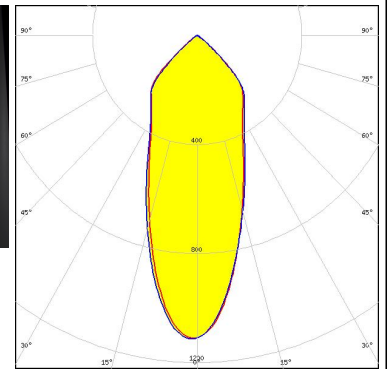
LED CDM-9 (Dim-To-Warm)
 FWHM / FWTM 36.0° / 97.0°
 Efficiency 87 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13658_CLAMP-VERO13-18
 F13671_ANGE-RZ-LENS
 Bender Wirth: 490 Typ L1



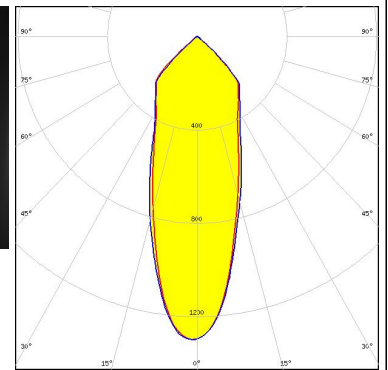
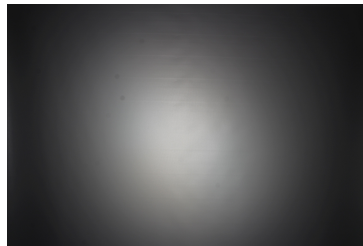
OPTICAL RESULTS (MEASURED):



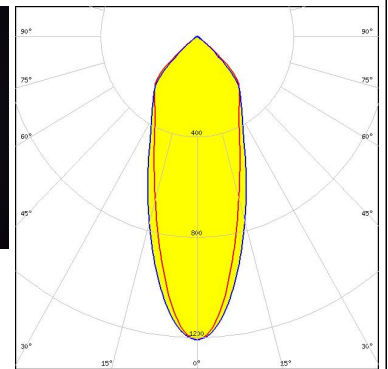
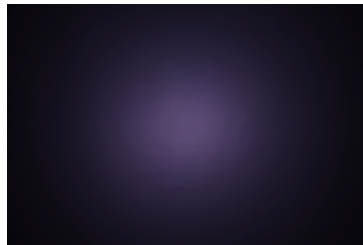
LED CTM-14 (Tunable White)
 FWHM / FWTM 39.0° / 98.0°
 Efficiency 86 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13584_CLAMP-VERO29
 F13671_ANGE-RZ-LENS
 Bender Wirth: 442 Typ L3



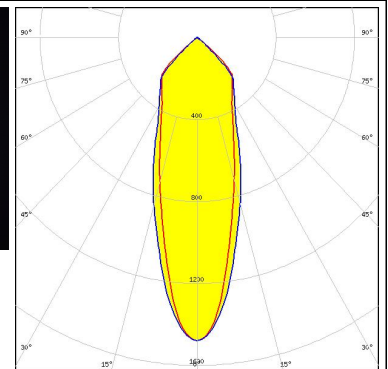
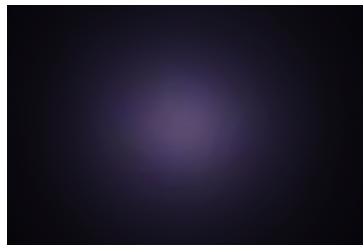
LED CTM-14 (Tunable White)
 FWHM / FWTM 35.0° / 96.0°
 Efficiency 91 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13584_CLAMP-VERO29
 Bender Wirth: 442 Typ L3



LED CTM-14 RGBW
 FWHM / FWTM 37.0° / 97.0°
 Efficiency 89 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour RGBW
 Required components:
 C13584_CLAMP-VERO29
 F13671_ANGE-RZ-LENS
 Bender Wirth: 500 Typ L3-1



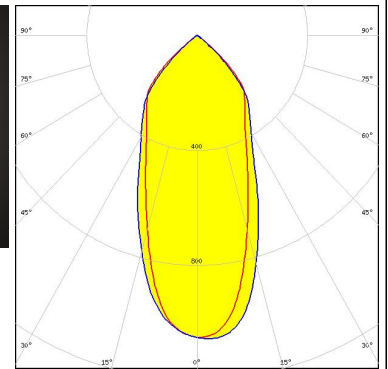
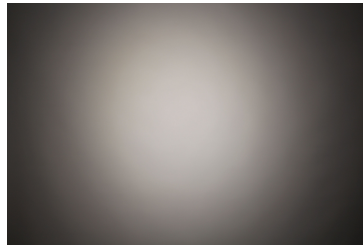
LED CTM-14 RGBW
 FWHM / FWTM 33.0° / 96.0°
 Efficiency 93 %
 Peak intensity 1.5 cd/lm
 LEDs/each optic 1
 Light colour RGBW
 Required components:
 C13584_CLAMP-VERO29
 Bender Wirth: 500 Typ L3-1



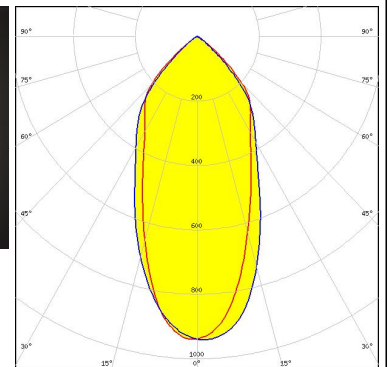
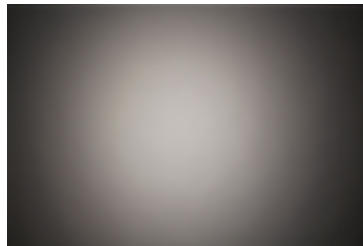
OPTICAL RESULTS (MEASURED):



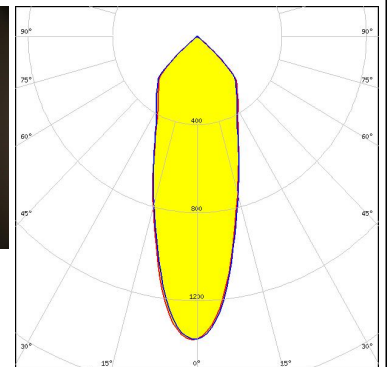
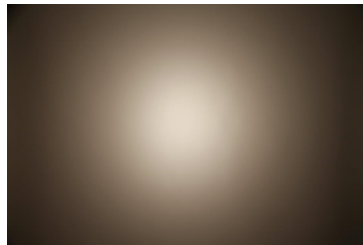
LED CTM-22 (Tunable White)
FWHM / FWTM 44.0° / 98.0°
Efficiency 90 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13584_CLAMP-VERO29
Bender Wirth: 494 Typ L3



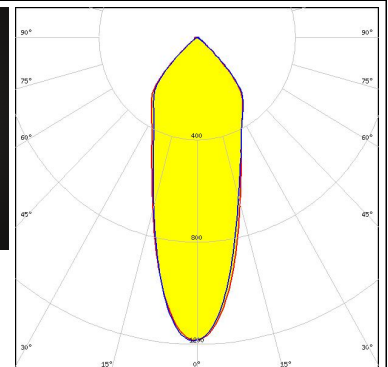
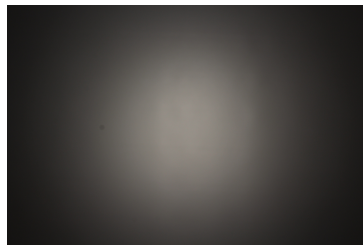
LED CTM-22 (Tunable White)
FWHM / FWTM 47.0° / 100.0°
Efficiency 86 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13584_CLAMP-VERO29
F13671_ANGE-RZ-LENS
Bender Wirth: 494 Typ L3



LED CxM-14 (19x19)
FWHM / FWTM 34.0° / 96.0°
Efficiency 93 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE Connectivity: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



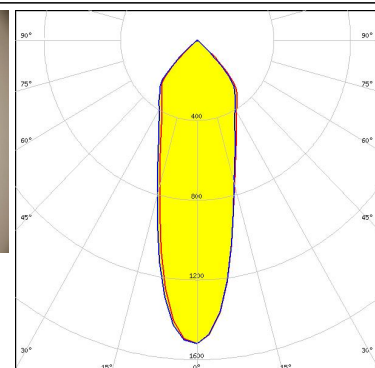
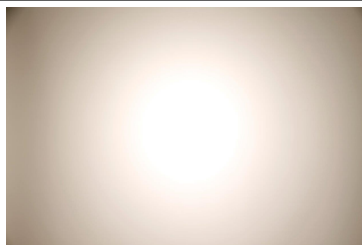
LED COB J-Type
FWHM / FWTM 36.0° / 95.0°
Efficiency 87 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
IDEAL: 50-2103NC + 50-2100AN



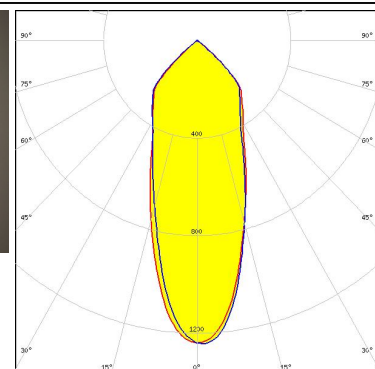
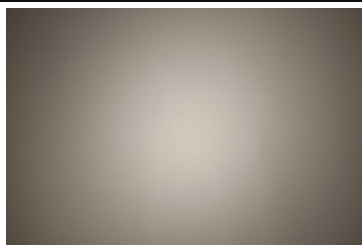
OPTICAL RESULTS (MEASURED):



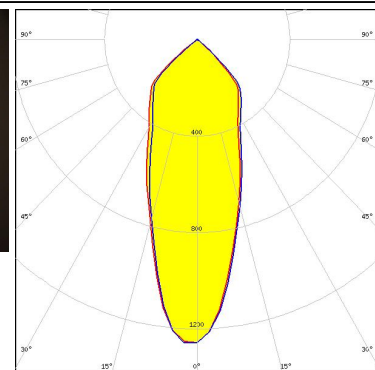
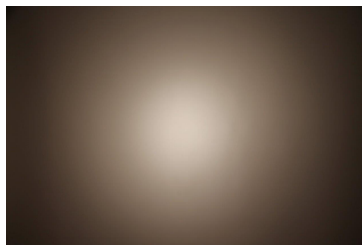
LED COB J-Type
FWHM / FWTM 31.0° / 93.0°
Efficiency 94 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2103NC + 50-2100AN



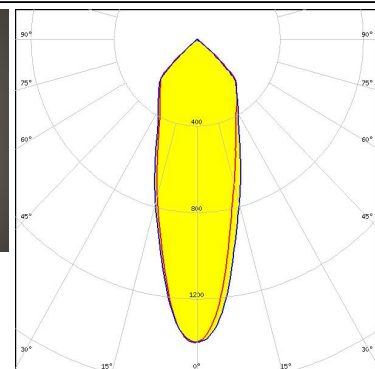
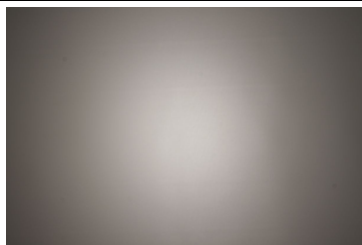
LED COB J-Type
FWHM / FWTM 38.0° / 97.0°
Efficiency 92 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 463 Typ L2



LED COB L-Type (LES 11)
FWHM / FWTM 37.0° / 98.0°
Efficiency 94 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
Molex: 180580-0005



LED COB L-Type (LES 11)
FWHM / FWTM 32.0° / 36.0°
Efficiency 92 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 438 Typ L1



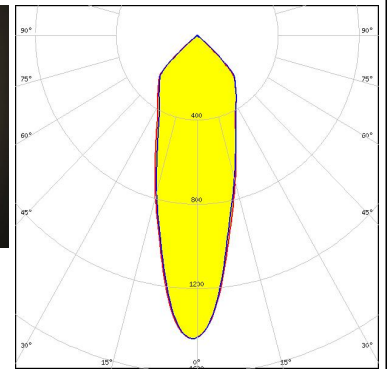
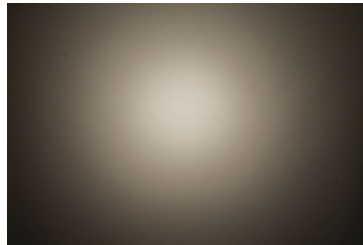
OPTICAL RESULTS (MEASURED):



LED COB L-Type (LES 11)
 FWHM / FWTM 32.0° / 95.0°
 Efficiency 91 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour White

Required components:

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

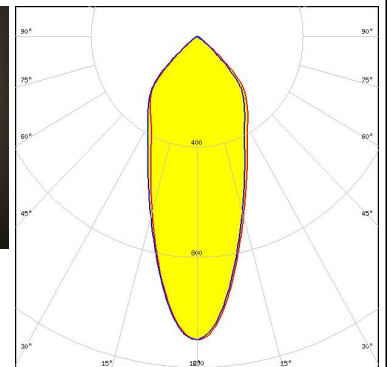
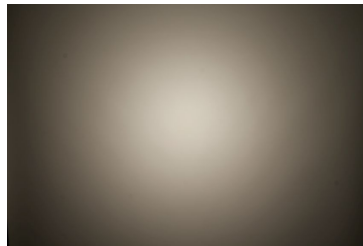


LED COB L-Type (LES 11)
 FWHM / FWTM 39.0° / 98.0°
 Efficiency 86 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour White

Required components:

F13671_ANGE-RZ-LENS

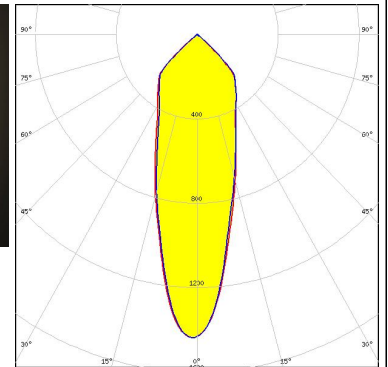
TE Connectivity: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



LED COB L-Type (LES 11)
 FWHM / FWTM 31.0° / 95.0°
 Efficiency 91 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour White

Required components:

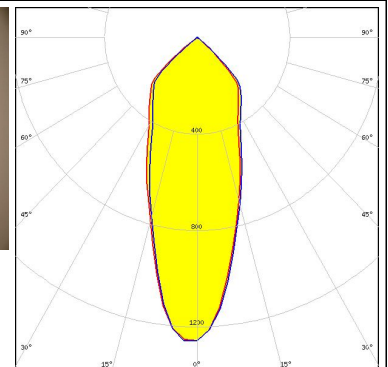
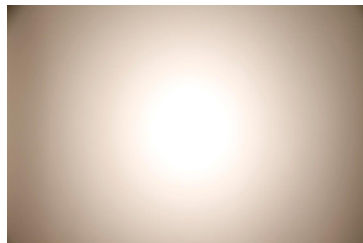
TE Connectivity: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



LED COB L-Type (LES 11)
 FWHM / FWTM 27.0° / 92.0°
 Efficiency 91 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour White

Required components:

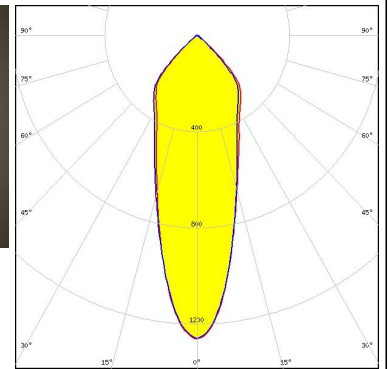
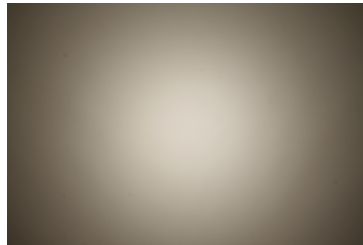
IDEAL: 50-2100NC + 50-2100AN



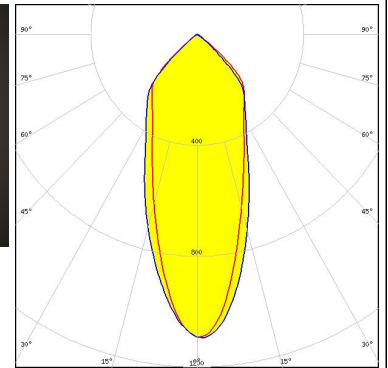
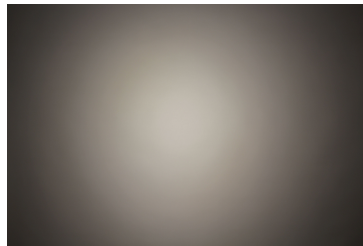
OPTICAL RESULTS (MEASURED):



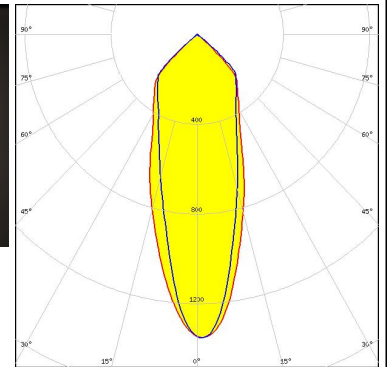
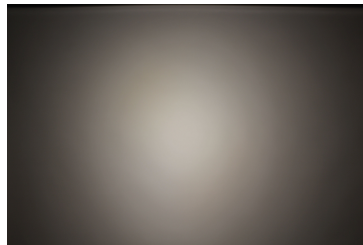
LED COB L-Type (LES 11)
 FWHM / FWTM 32.0° / 95.0°
 Efficiency 86 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGE-RZ-LENS
 IDEAL: 50-2100NC + 50-2100AN



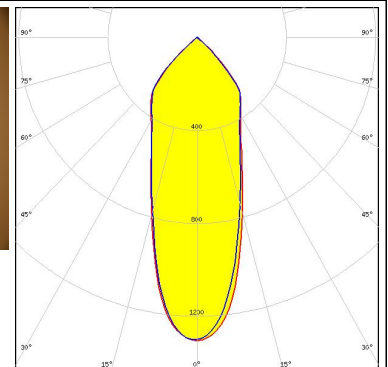
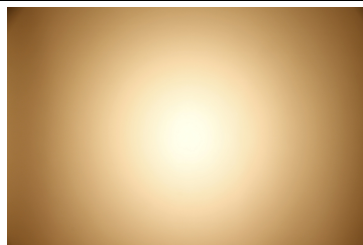
LED NVCWJ024Z-V1MT: COB J-Type Tunable White
 FWHM / FWTM 42.0° / 101.0°
 Efficiency 87 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13658_CLAMP-VERO13-18
 F13671_ANGE-RZ-LENS
 Bender Wirth: 498 Typ L2



LED NVCWJ024Z-V1MT: COB J-Type Tunable White
 FWHM / FWTM 38.0° / 98.0°
 Efficiency 92 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 498 Typ L2



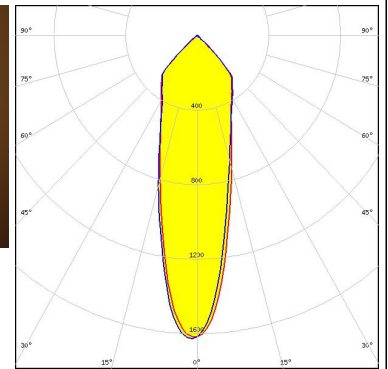
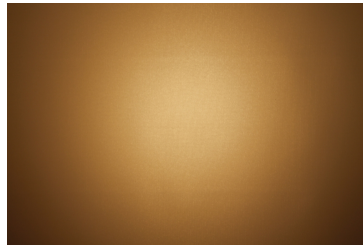
LED PrevaLED Core AC (LEP-2000)
 FWHM / FWTM 36.0° / 94.0°
 Efficiency 93 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



OPTICAL RESULTS (MEASURED):

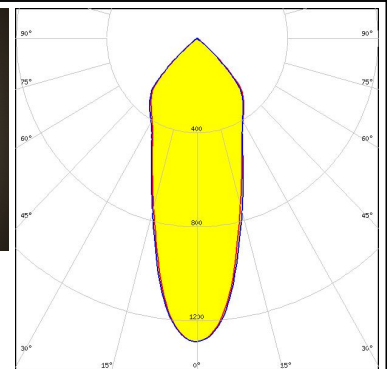
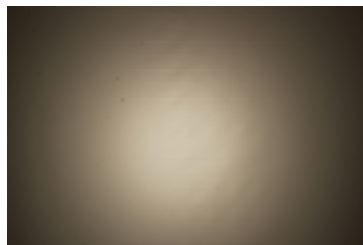
OSRAM

LED PrevaLED Core AC (LEP-800)
 FWHM / FWTM 28.0° / 92.0°
 Efficiency 93 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



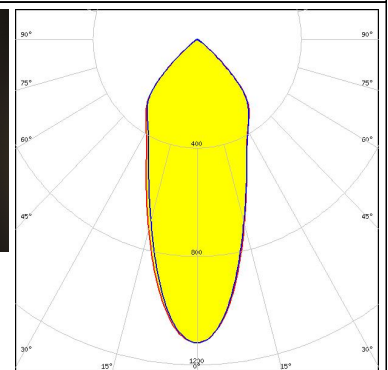
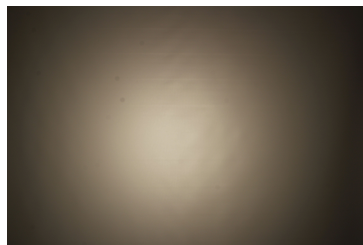
OSRAM

LED PrevaLED Core G7 L15 H1
 FWHM / FWTM 36.0° / 96.0°
 Efficiency 94 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C16685_CLAMP-PRV-A



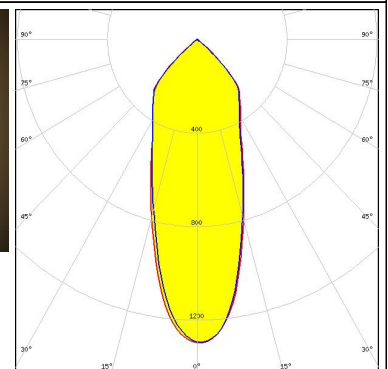
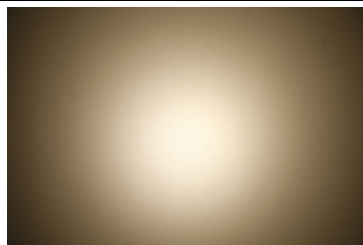
OSRAM

LED PrevaLED Core G7 L15 H1
 FWHM / FWTM 40.0° / 97.0°
 Efficiency 90 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C16685_CLAMP-PRV-A
 F13671_ANGE-RZ-LENS



OSRAM

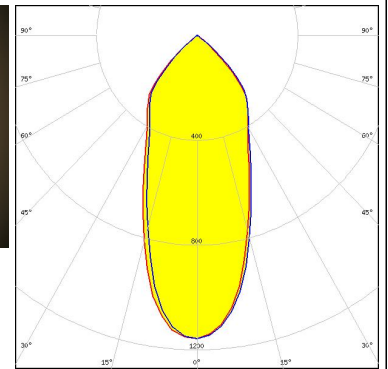
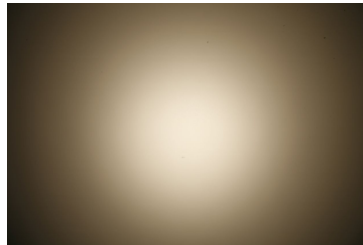
LED PrevaLED Core Z3 LES19
 FWHM / FWTM 37.0° / 96.0°
 Efficiency 93 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



OPTICAL RESULTS (MEASURED):

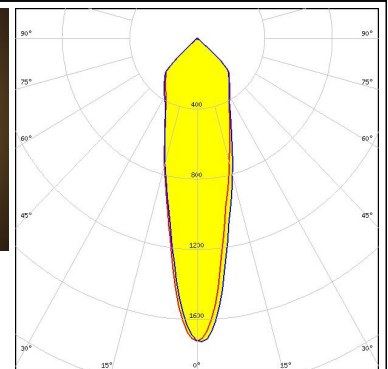
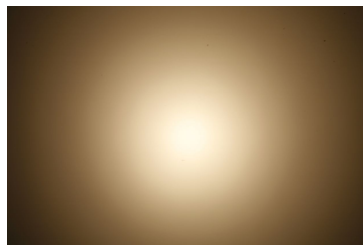
OSRAM

LED PrevaLED Core Z3 LES23
FWHM / FWTM 43.0° / 97.0°
Efficiency 94 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



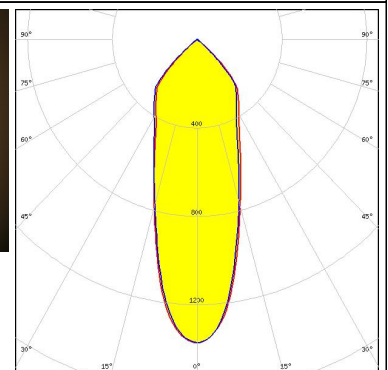
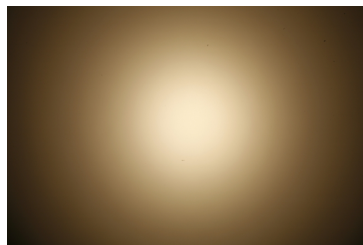
OSRAM

LED PrevaLED Core Z3 LES9
FWHM / FWTM 26.0° / 94.0°
Efficiency 93 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



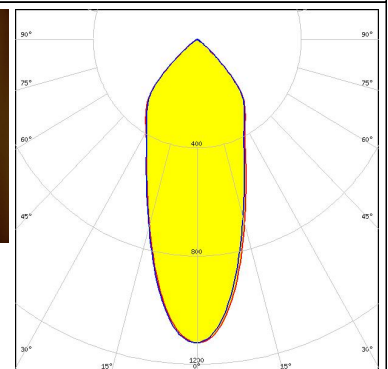
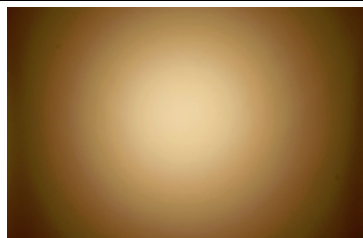
OSRAM

LED PrevaLED Core Z4 LES19
FWHM / FWTM 34.0° / 94.0°
Efficiency 93 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



OSRAM

LED PrevaLED Core Z4 LES19
FWHM / FWTM 40.0° / 96.0°
Efficiency 88 %
Peak intensity 1.1 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):

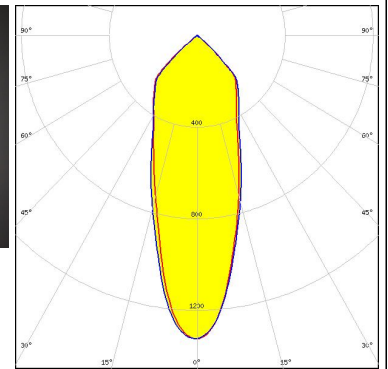
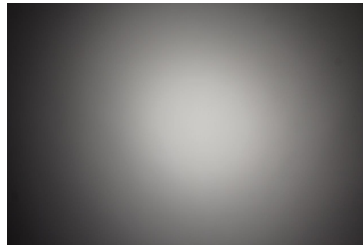
OSRAM

Opto Semiconductors

LED Soleriq S13
FWHM / FWTM 34.0° / 97.0°
Efficiency 92 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White

Required components:

C13658_CLAMP-VERO13-18
Bender Wirth: 437 Typ L1



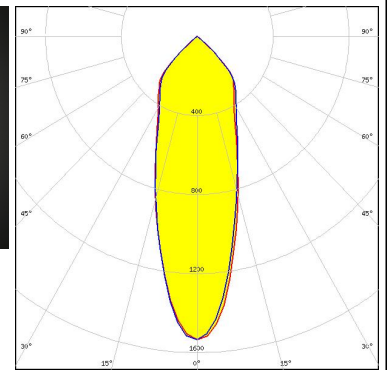
OSRAM

Opto Semiconductors

LED Soleriq S13
FWHM / FWTM 34.0° / 95.0°
Efficiency 94 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour White

Required components:

TE Connectivity: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1



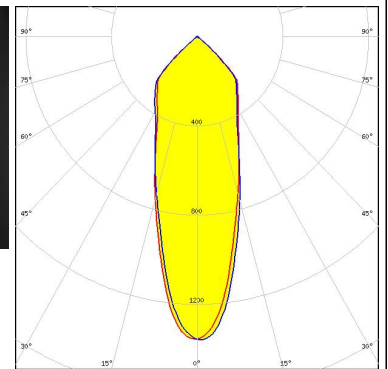
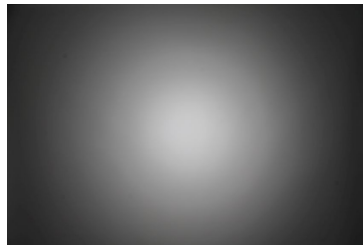
OSRAM

Opto Semiconductors

LED Soleriq S13 19x19
FWHM / FWTM 34.0° / 96.0°
Efficiency 93 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White

Required components:

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



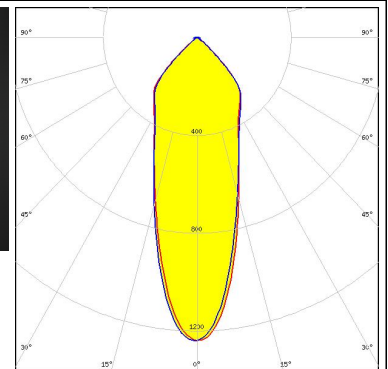
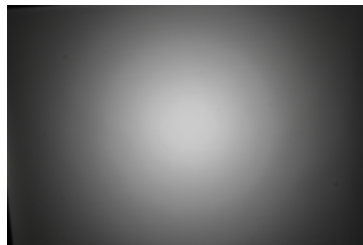
OSRAM

Opto Semiconductors

LED Soleriq S13 19x19
FWHM / FWTM 34.0° / 95.0°
Efficiency 87 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White

Required components:

F13671_ANGE-RZ-LENS
IDEAL: 50-2103CT + 50-2100AN



OPTICAL RESULTS (MEASURED):

OSRAM

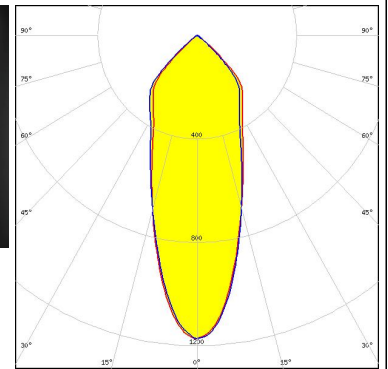
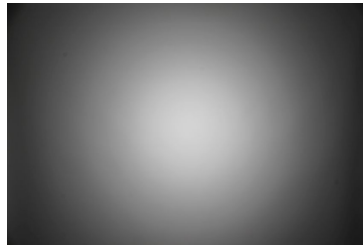
Opto Semiconductors

LED Soleriq S13 19x19
FWHM / FWTM 37.0° / 97.0°
Efficiency 87 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White

Required components:

F13671_ANGE-RZ-LENS

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



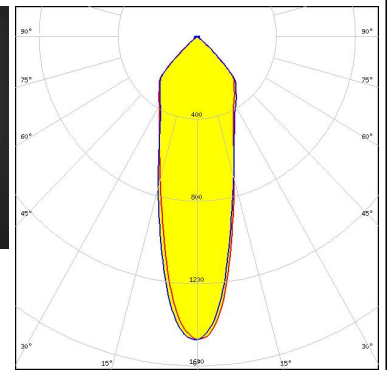
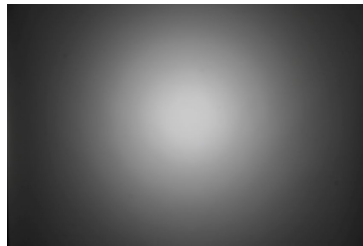
OSRAM

Opto Semiconductors

LED Soleriq S13 19x19
FWHM / FWTM 30.0° / 93.0°
Efficiency 91 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour White

Required components:

IDEAL: 50-2103CT + 50-2100AN



OSRAM

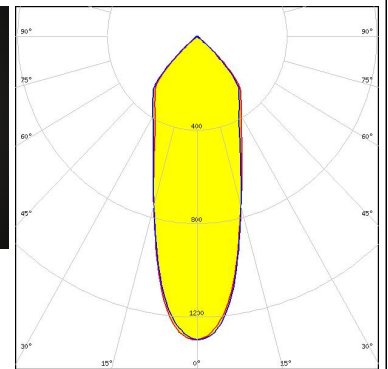
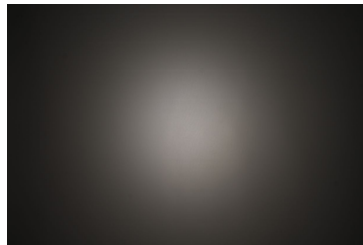
Opto Semiconductors

LED Soleriq S19
FWHM / FWTM 35.0° / 95.0°
Efficiency 91 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White

Required components:

C13584_CLAMP-VERO29

Bender Wirth: 462 Typ L3



OSRAM

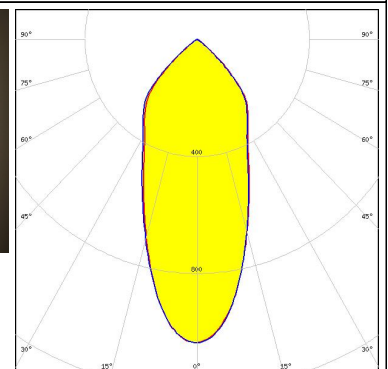
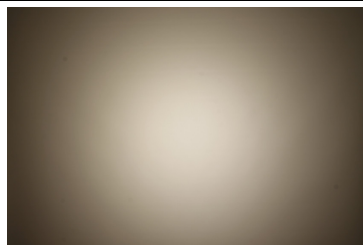
Opto Semiconductors

LED Soleriq S19
FWHM / FWTM 43.0° / 98.0°
Efficiency 87 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White

Required components:

F13671_ANGE-RZ-LENS

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



OPTICAL RESULTS (MEASURED):

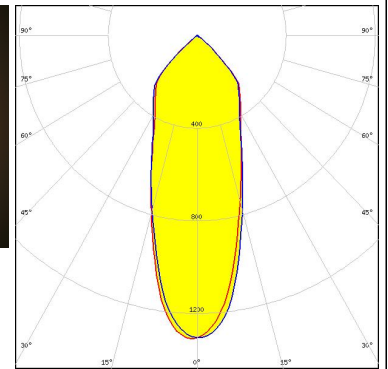
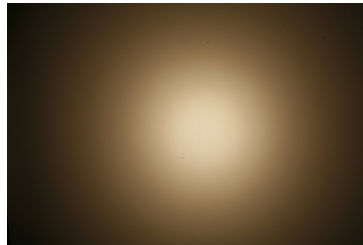
OSRAM

Opto Semiconductors

LED Soleriq S19
FWHM / FWTM 37.0° / 96.0°
Efficiency 93 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White

Required components:

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

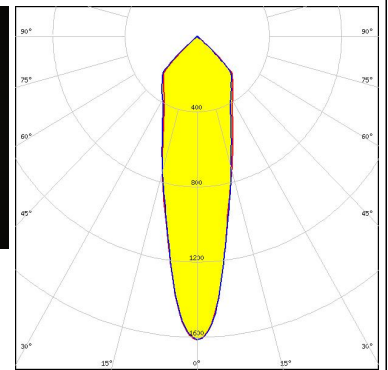
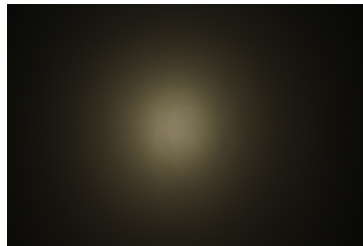


PHILIPS

LED Fortimo SLM L09 + SLM holder
FWHM / FWTM 27.0° / 94.0°
Efficiency 92 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour White

Required components:

TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1

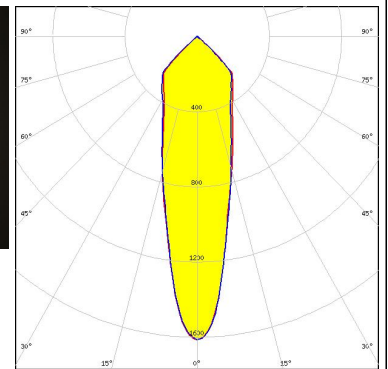
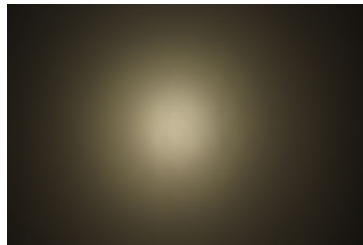


PHILIPS

LED Fortimo SLM L09 + SLM holder
FWHM / FWTM 27.0° / 94.0°
Efficiency 92 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour White

Required components:

TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



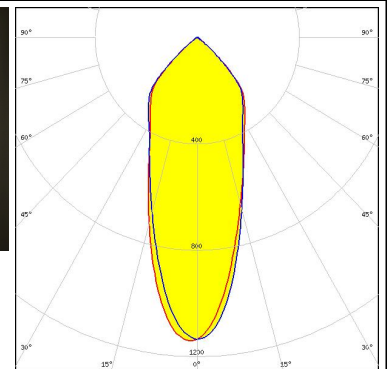
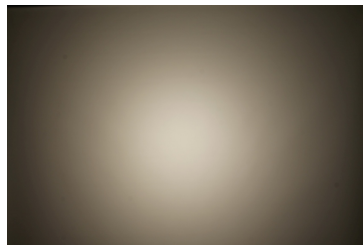
PHILIPS

LED Fortimo SLM L13 + SLM holder
FWHM / FWTM 38.0° / 97.0°
Efficiency 87 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White

Required components:

F13671_ANGE-RZ-LENS

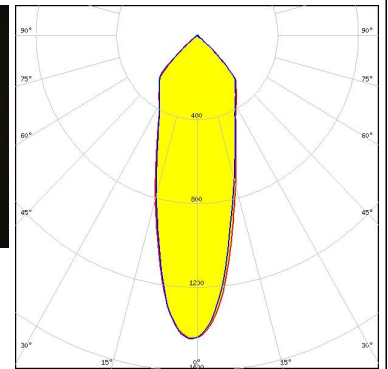
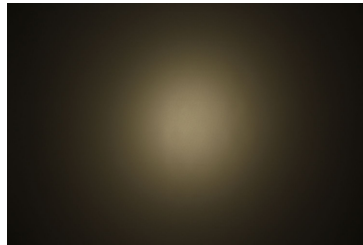
TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



OPTICAL RESULTS (MEASURED):

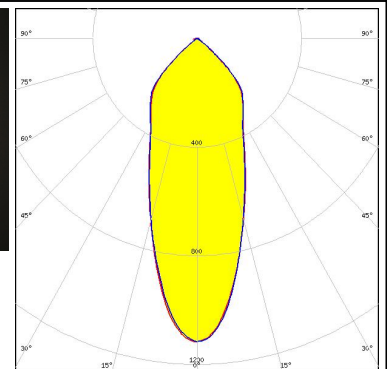
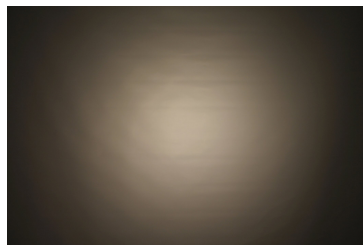
PHILIPS

LED Fortimo SLM L13 + SLM holder
FWHM / FWTM 32.0° / 94.0°
Efficiency 91 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



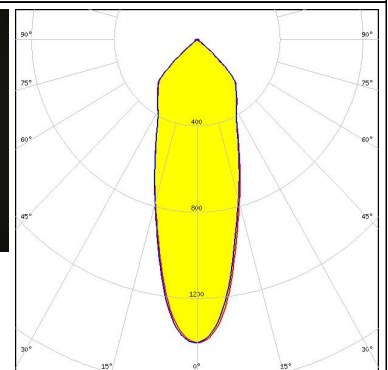
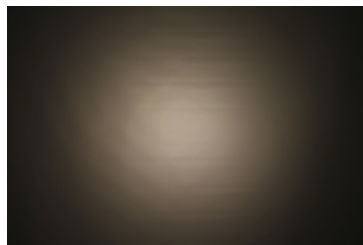
PHILIPS

LED Fortimo SLM L13 CoB
FWHM / FWTM 38.0° / 98.0°
Efficiency 87 %
Peak intensity 1.1 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



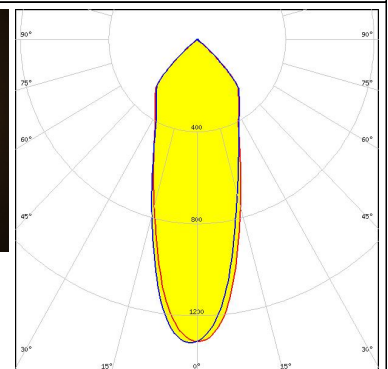
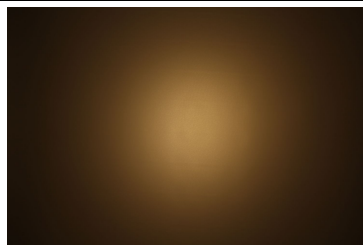
PHILIPS

LED Fortimo SLM L13 CoB
FWHM / FWTM 34.0° / 96.0°
Efficiency 94 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



PHILIPS

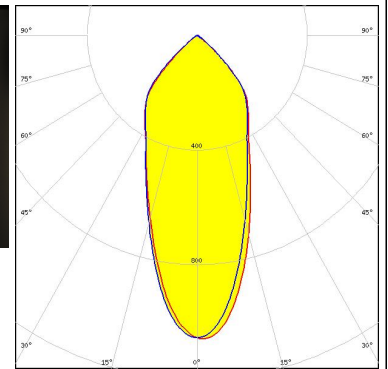
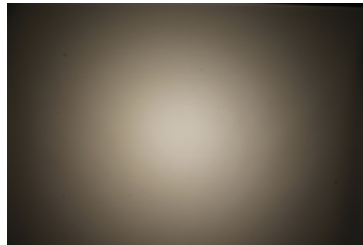
LED Fortimo SLM L15 + SLM holder
FWHM / FWTM 35.0° / 95.0°
Efficiency 90 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



OPTICAL RESULTS (MEASURED):

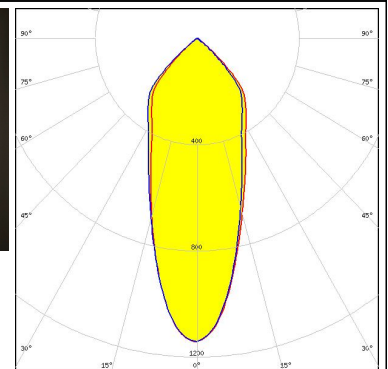
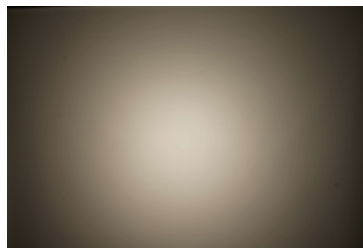
PHILIPS

LED Fortimo SLM L15 + SLM holder
 FWHM / FWTM 41.0° / 97.0°
 Efficiency 86 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGE-RZ-LENS
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



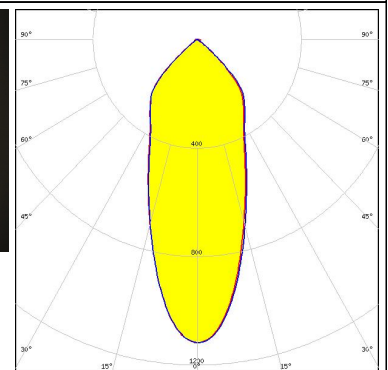
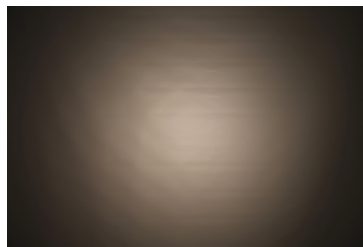
PHILIPS

LED Fortimo SLM L15 + SLM holder
 FWHM / FWTM 37.0° / 97.0°
 Efficiency 87 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGE-RZ-LENS
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



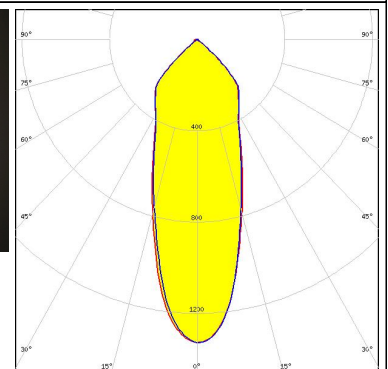
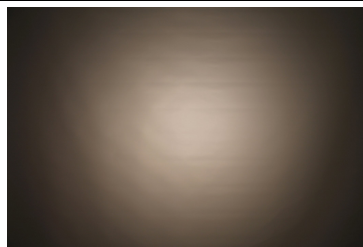
PHILIPS

LED Fortimo SLM L15 CoB
 FWHM / FWTM 39.0° / 98.0°
 Efficiency 88 %
 Peak intensity 1.1 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

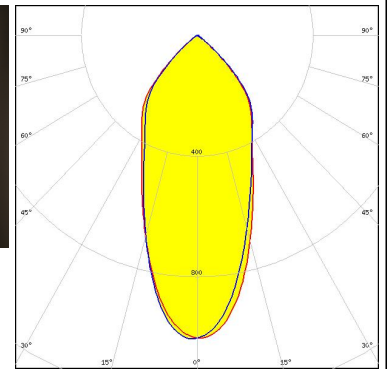
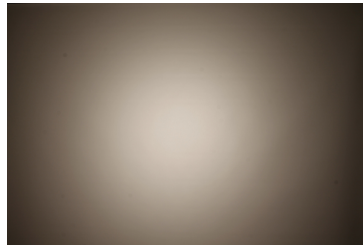
LED Fortimo SLM L15 CoB
 FWHM / FWTM 36.0° / 96.0°
 Efficiency 93 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



OPTICAL RESULTS (MEASURED):

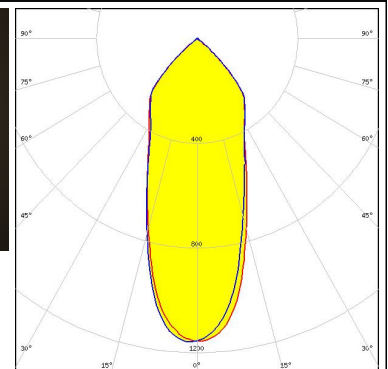
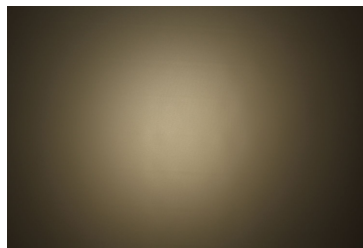
PHILIPS

LED Fortimo SLM L19 + SLM holder
 FWHM / FWTM 44.0° / 98.0°
 Efficiency 87 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGE-RZ-LENS
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



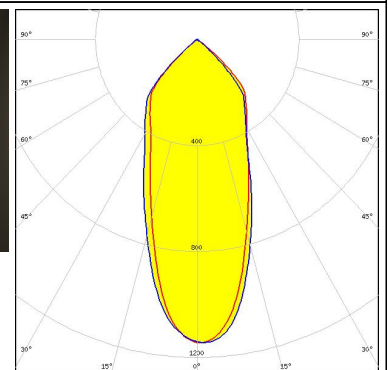
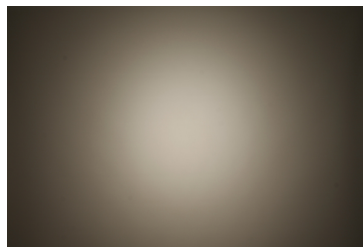
PHILIPS

LED Fortimo SLM L19 + SLM holder
 FWHM / FWTM 40.0° / 96.0°
 Efficiency 89 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



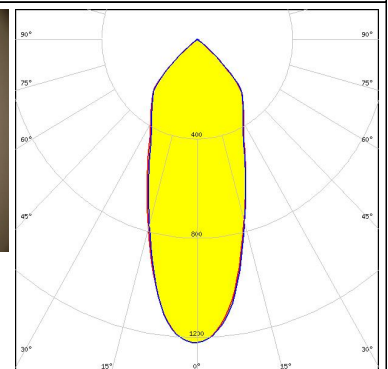
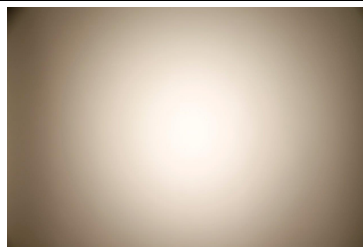
SAMSUNG

LED LC026B / 033B / 040B
 FWHM / FWTM 41.0° / 98.0°
 Efficiency 92 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 450 Typ L2



SAMSUNG

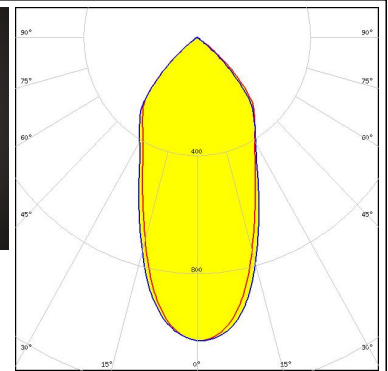
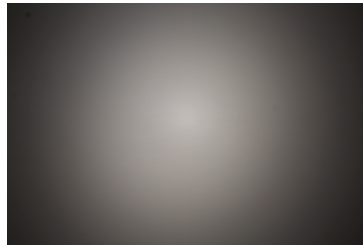
LED LC026B / 033B / 040B
 FWHM / FWTM 39.0° / 97.0°
 Efficiency 93 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE Connectivity: 2213258-2 + OPTIC CLIP Z50 TYPE1 2213194-1



OPTICAL RESULTS (MEASURED):

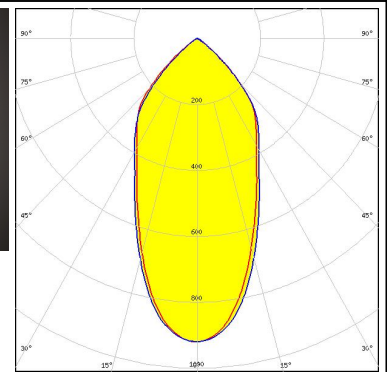
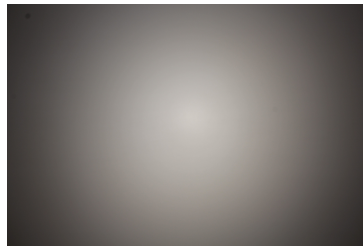
SAMSUNG

LED LC035T (Tunable white)
 FWHM / FWTM 47.0° / 97.0°
 Efficiency 93 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour Tunable White
 Required components:
 C13584_CLAMP-VERO29
 Bender Wirth: 502 Typ L3



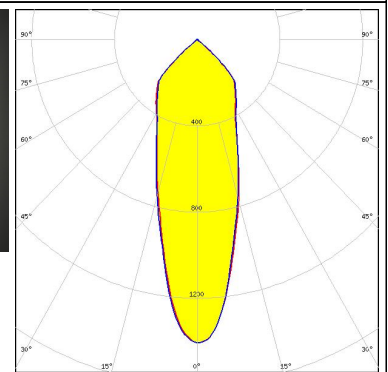
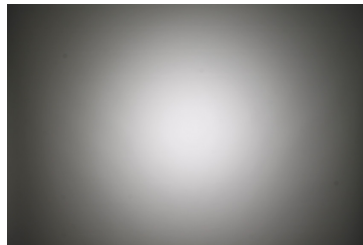
SAMSUNG

LED LC035T (Tunable white)
 FWHM / FWTM 50.0° / 101.0°
 Efficiency 88 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour Tunable White
 Required components:
 C13584_CLAMP-VERO29
 F13671_ANGE-RZ-LENS
 Bender Wirth: 502 Typ L3



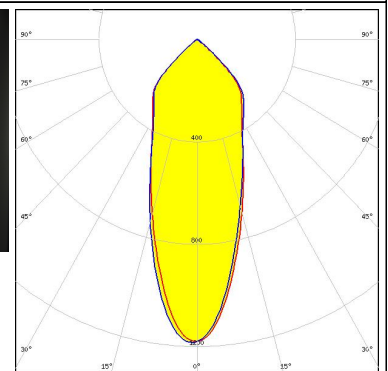
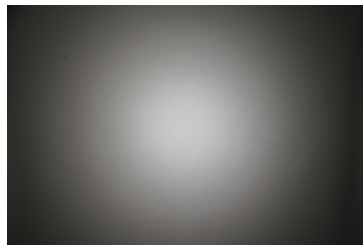
SAMSUNG

LED LC040C
 FWHM / FWTM 32.0° / 95.0°
 Efficiency 91 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE Connectivity: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1

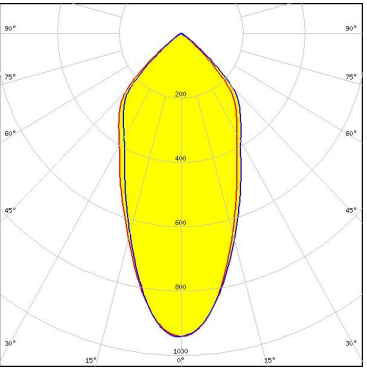
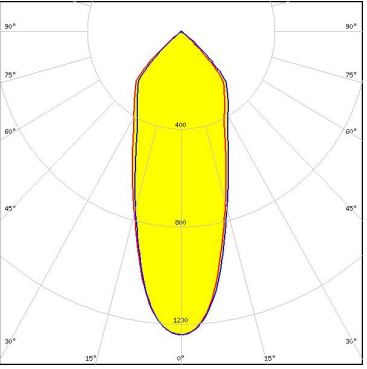
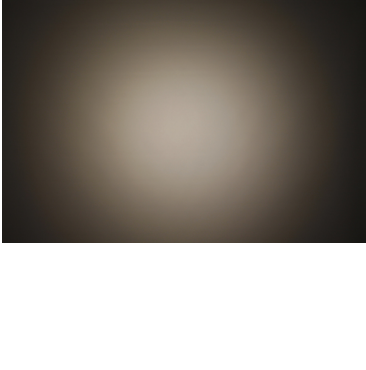
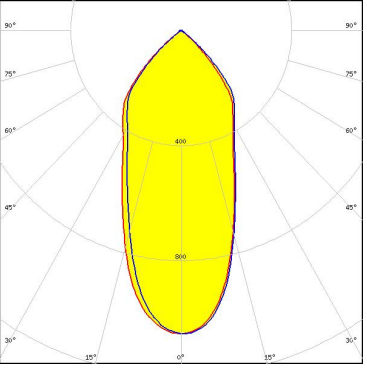
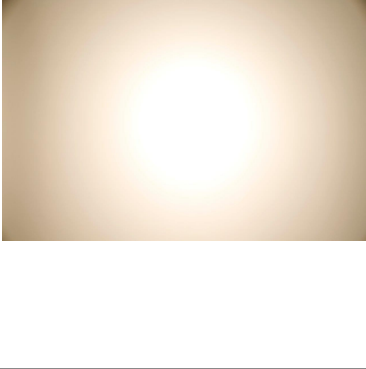
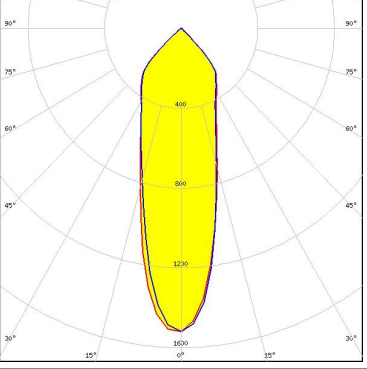


SAMSUNG

LED LC040C
 FWHM / FWTM 37.0° / 97.0°
 Efficiency 88 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGE-RZ-LENS
 TE Connectivity: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



OPTICAL RESULTS (MEASURED):

SEOUL SEMICONDUCTOR LED AC Zhaga COB FWHM / FWTM 47.0° / 101.0° Efficiency 88 % Peak intensity 0.9 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 / FWTM 38.0° / 96.0° Efficiency 92 % Peak intensity 1.2 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 44.0° / 97.0° Efficiency 90 % Peak intensity 1.1 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 30.0° / 92.0° Efficiency 93 % Peak intensity 1.5 cd/lm LEDs/each optic 1 Light colour White Required components: IDEAL: 50-2100SH + 50-2100AN		

OPTICAL RESULTS (MEASURED):

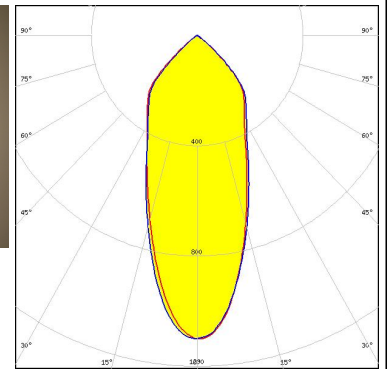
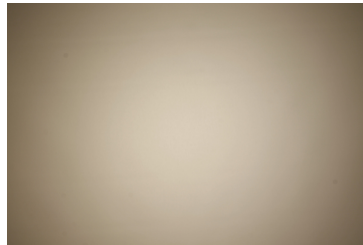
SHARP

LED Mega Zenigata (GW6DME)
FWHM / FWTM 40.0° / 98.0°
Efficiency 88 %
Peak intensity 1.1 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

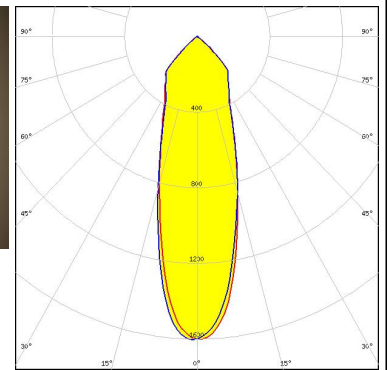
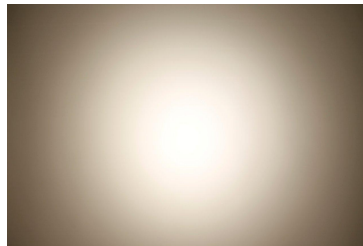


SHARP

LED Mega Zenigata (GW6DME)
FWHM / FWTM 32.0° / 93.0°
Efficiency 92 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour White

Required components:

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

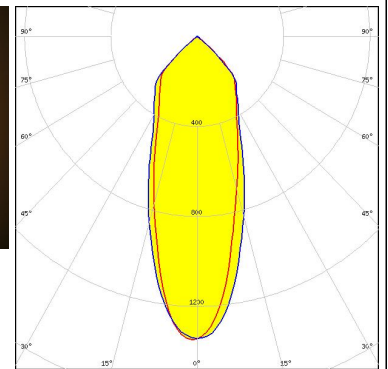
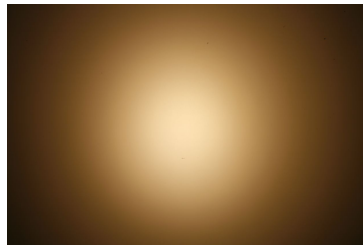


VS LIGHTING SOLUTIONS

LED WU-M-461
FWHM / FWTM 35.0° / 96.0°
Efficiency 93 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White

Required components:

TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1

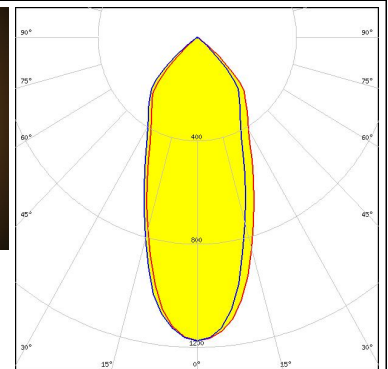
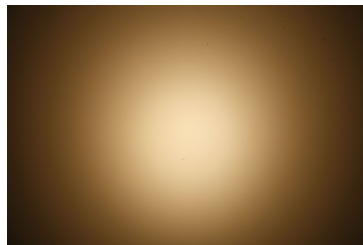


VS LIGHTING SOLUTIONS

LED WU-M-462
FWHM / FWTM 42.0° / 98.0°
Efficiency 93 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White

Required components:

TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



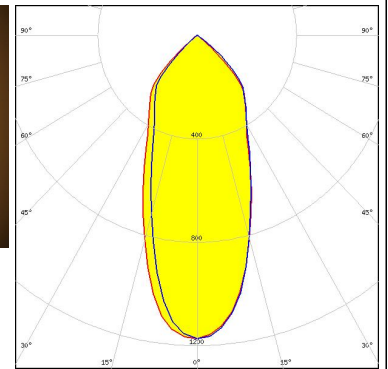
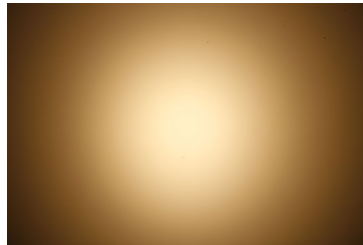
OPTICAL RESULTS (MEASURED):



LED WU-M-464
FWHM / FWTM 42.0° / 97.0°
Efficiency 93 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White

Required components:

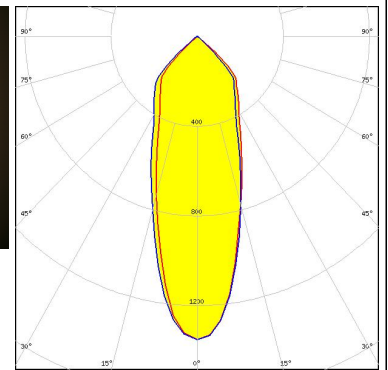
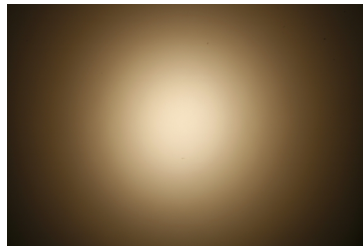
TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



LED WU-M-484
FWHM / FWTM 36.0° / 96.0°
Efficiency 93 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White

Required components:

TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1

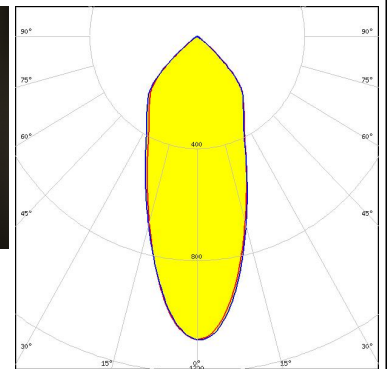
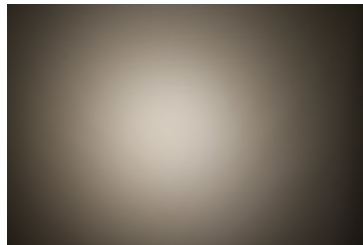


LED WU-M-484
FWHM / FWTM 40.0° / 98.0°
Efficiency 86 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White

Required components:

F13671_ANGE-RZ-LENS

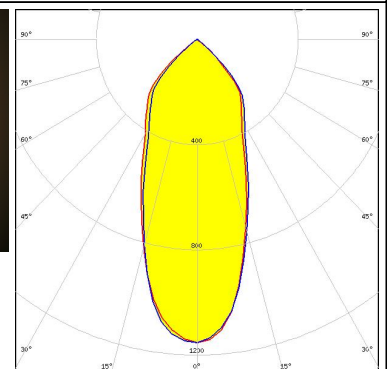
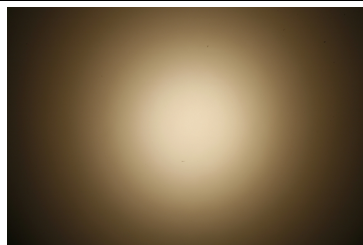
TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



LED WU-M-485
FWHM / FWTM 43.0° / 98.0°
Efficiency 93 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White

Required components:

TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



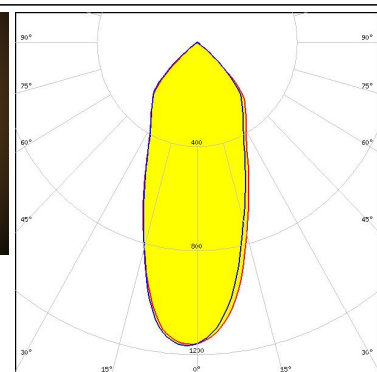
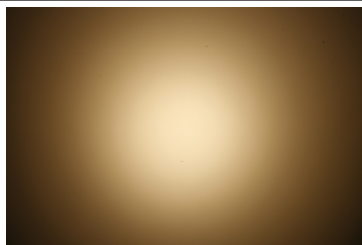
OPTICAL RESULTS (MEASURED):



LED WU-M-486
FWHM / FWTM 42.0° / 98.0°
Efficiency 92 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White

Required components:

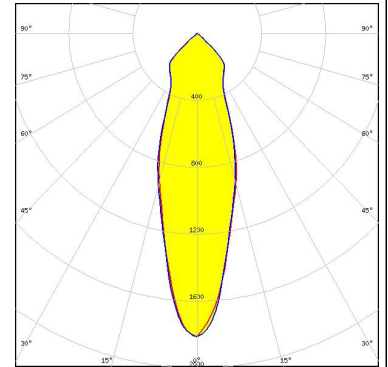
TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



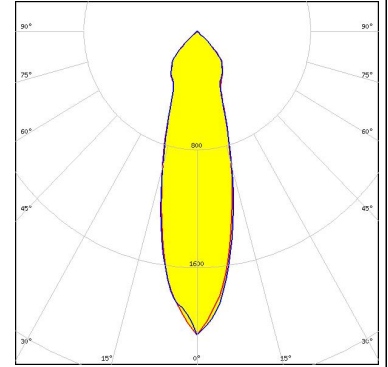
OPTICAL RESULTS (SIMULATED):



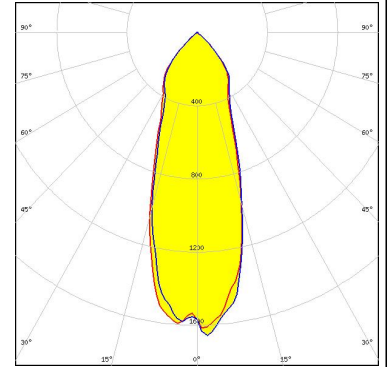
LED V10 Gen7
FWHM / FWTM 31.0° / 93.0°
Efficiency 93 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 486 Typ L1



LED V13 Gen7
FWHM / FWTM 28.0° / 88.0°
Efficiency 93 %
Peak intensity 2.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2103CT + 50-2100AN



LED V22 Gen7
FWHM / FWTM 34.0° / 88.0°
Efficiency 94 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2204-CT + 50-2100AN



LED CxM-14 (19x19)
FWHM / FWTM 37.0° / 97.0°
Efficiency 91 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 433 Typ L1

OPTICAL RESULTS (SIMULATED):

	
LED	CxM-9 (13.5x13.5)
FWHM / FWTM	31.0° / 96.0°
Efficiency	92 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13658_CLAMP-VERO13-18	
Bender Wirth: 434 Typ L1	

	
LED	ZC12/18
FWHM / FWTM	37.0° / 97.0°
Efficiency	92 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13658_CLAMP-VERO13-18	
Bender Wirth: 433 Typ L1	

	
LED	ZC4/6
FWHM / FWTM	31.0° / 96.0°
Efficiency	92 %
Peak intensity	1.4 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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