

ANGELETTE-S

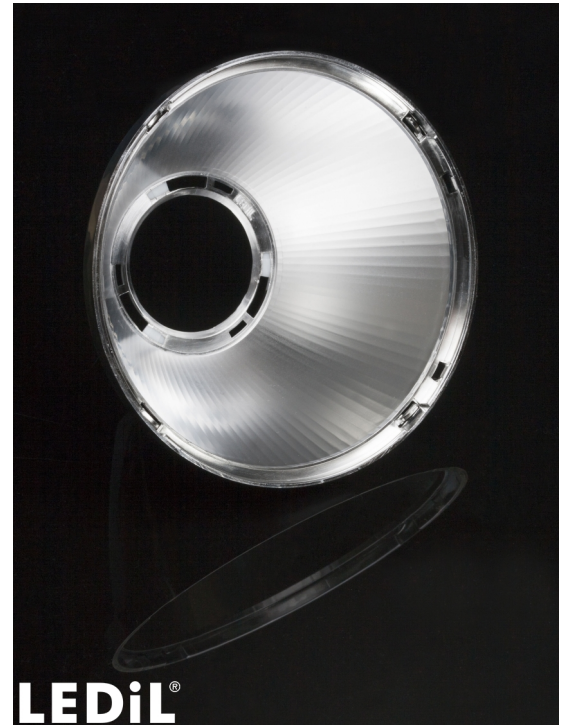
~10° spot beam

TECHNICAL SPECIFICATIONS:

Dimensions	Ø 110.0 mm
Height	57.3 mm
Fastening	socket
ROHS compliant	yes 

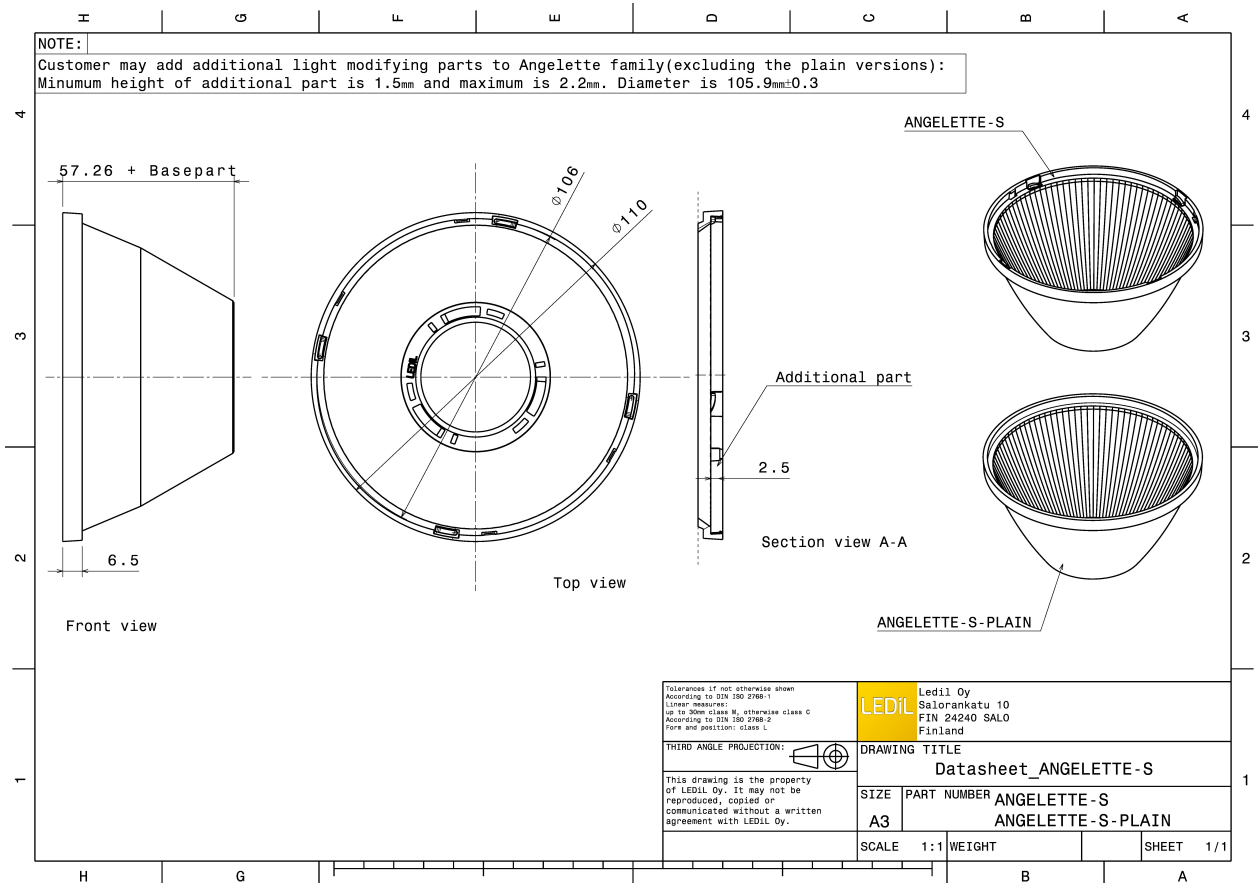
MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish	Coating
ANGELETTE-S	Reflector	PC	metal		HMDS



ORDERING INFORMATION:

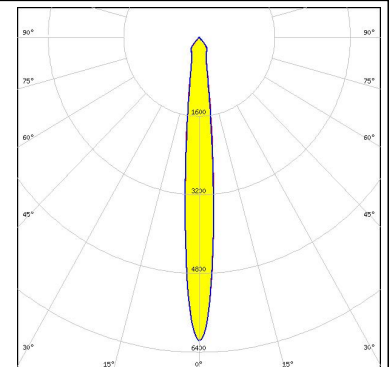
Component	Qty in box	MOQ	MPQ	Box weight (kg)
F14532_ANGELETTE-S » Box size: 398 x 298 x 265 mm	180	90	45	7.4



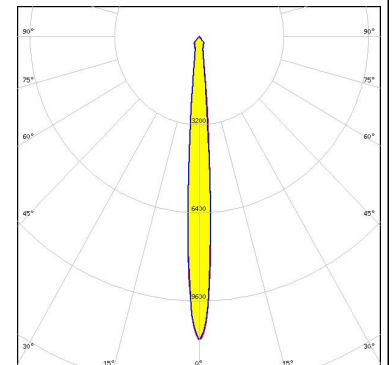
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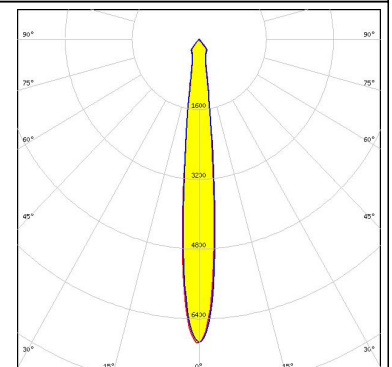
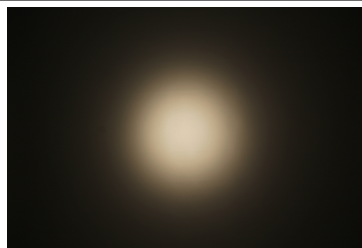
LED V10 Gen7
FWHM 11.0°
Efficiency 85 %
Peak intensity 6.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
F13671_ANGE-RZ-LENS
Bender Wirth: 434 Typ L1



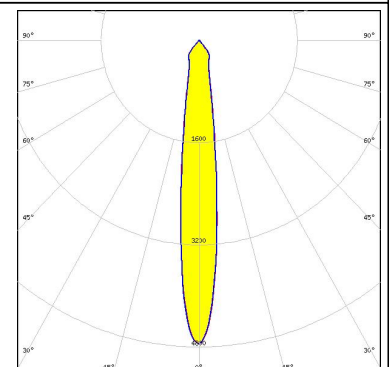
LED V10 Gen7
FWHM 8.5°
Efficiency 89 %
Peak intensity 11 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 486 Typ L1



LED V13 Gen7
FWHM 12.0°
Efficiency 91 %
Peak intensity 7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



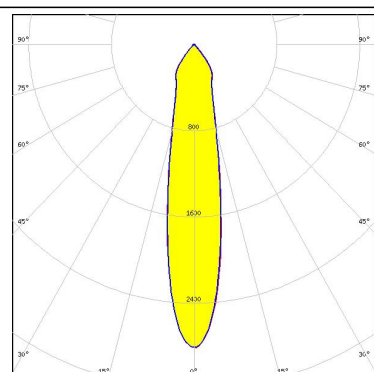
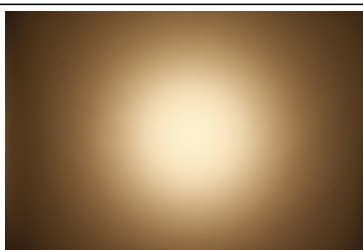
LED V13 Gen7
FWHM 14.0°
Efficiency 86 %
Peak intensity 4.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



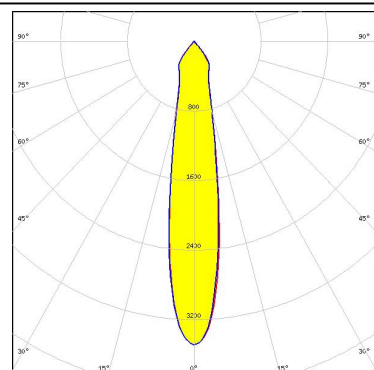
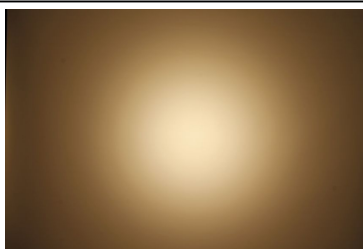
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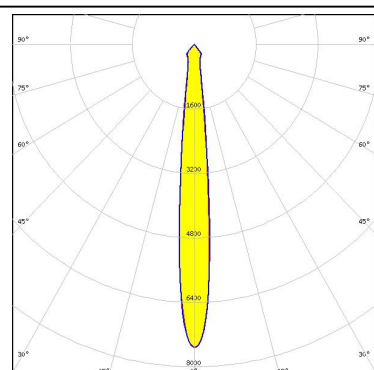
LED V22 Gen6
FWHM 21.0°
Efficiency 85 %
Peak intensity 2.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
IDEAL: 50-2204-CT + 50-2100AN



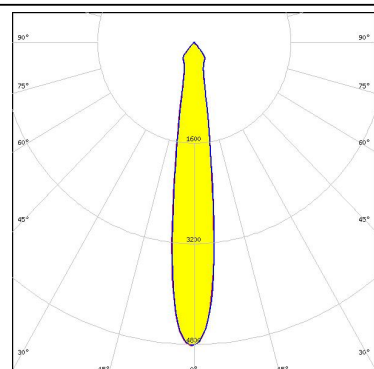
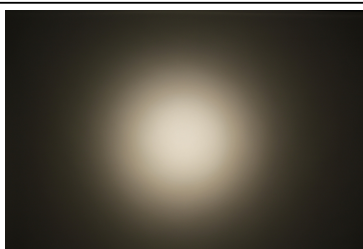
LED V22 Gen6
FWHM 19.0°
Efficiency 90 %
Peak intensity 3.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2204-CT + 50-2100AN



LED Vero SE 13
FWHM 11.0°
Efficiency 90 %
Peak intensity 7.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C16402_CLAMP-VEROSE-13-18



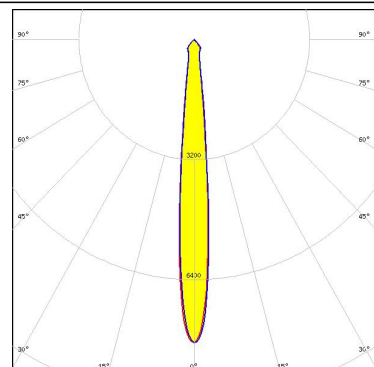
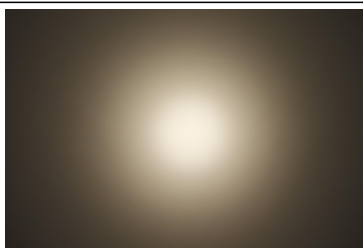
LED Vero SE 18
FWHM 16.0°
Efficiency 90 %
Peak intensity 4.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C16402_CLAMP-VEROSE-13-18



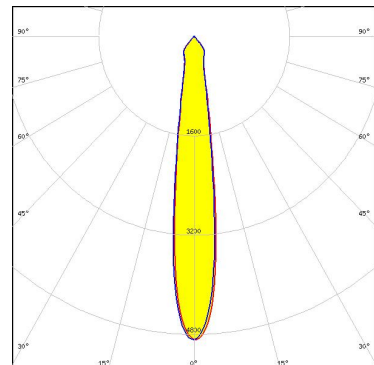
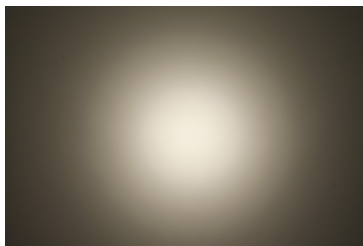
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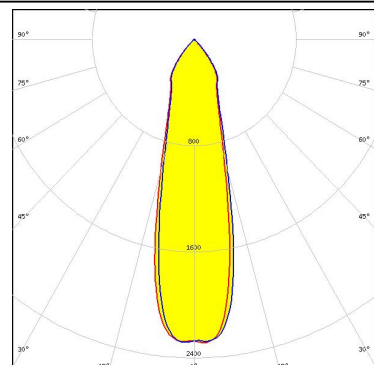
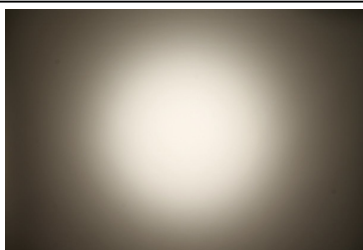
LED VERO13
FWHM 11.0°
Efficiency 90 %
Peak intensity 8.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18



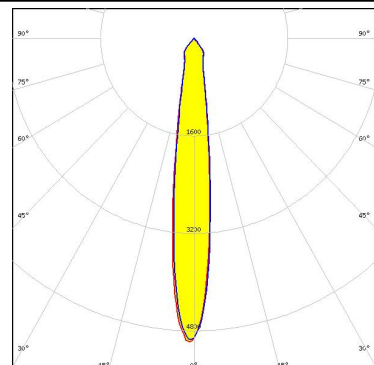
LED VERO18
FWHM 15.0°
Efficiency 90 %
Peak intensity 4.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18



LED VERO29
FWHM 27.0°
Efficiency 90 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13584_CLAMP-VERO29



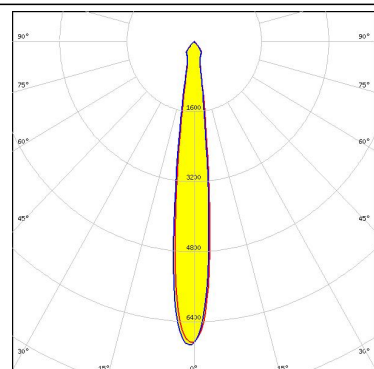
LED Vesta TW 15mm DP
FWHM 15.0°
Efficiency 87 %
Peak intensity 5 cd/lm
LEDs/each optic 1
Light colour Tunable White
Required components:
C13658_CLAMP-VERO13-18
F13671_ANGE-RZ-LENS
Bender Wirth: 482 Typ L2



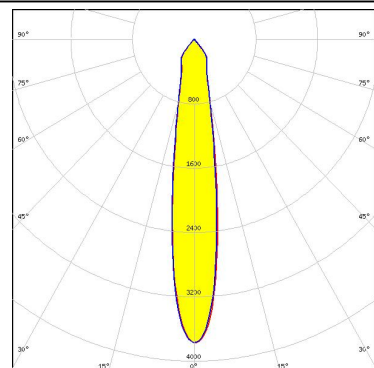
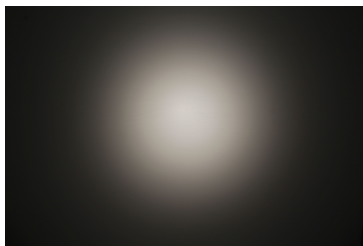
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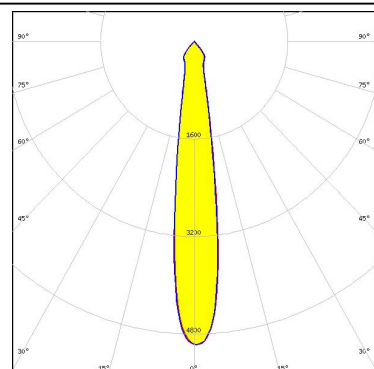
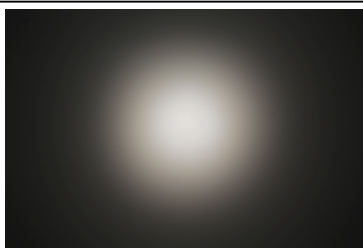
LED Vesta TW 15mm DP
 FWHM 13.0°
 Efficiency 92 %
 Peak intensity 6.9 cd/lm
 LEDs/each optic 1
 Light colour Tunable White
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 482 Typ L2



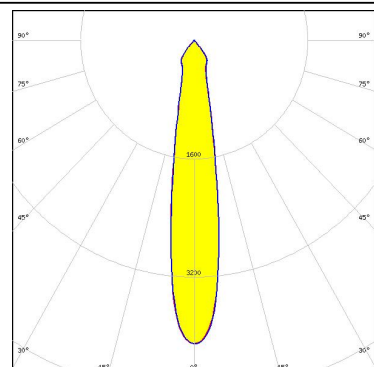
LED Vesta TW 18mm (31W) DP
 FWHM 17.0°
 Efficiency 87 %
 Peak intensity 3.8 cd/lm
 LEDs/each optic 1
 Light colour Tunable White
 Required components:
 C13584_CLAMP-VERO29
 F13671_ANGE-RZ-LENS
 Bender Wirth: 483 Typ L3



LED Vesta TW 18mm (31W) DP
 FWHM 16.0°
 Efficiency 92 %
 Peak intensity 5 cd/lm
 LEDs/each optic 1
 Light colour Tunable White
 Required components:
 C13584_CLAMP-VERO29
 Bender Wirth: 483 Typ L3



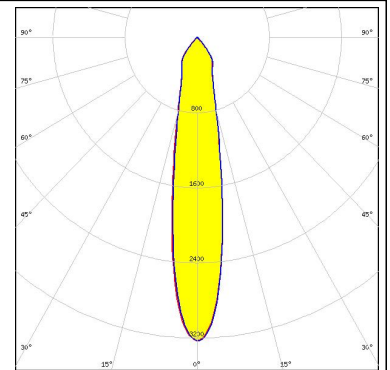
LED Vesta TW 22mm DP
 FWHM 18.0°
 Efficiency 92 %
 Peak intensity 4.1 cd/lm
 LEDs/each optic 1
 Light colour Tunable White
 Required components:
 C13584_CLAMP-VERO29
 Bender Wirth: 494 Typ L3



PHOTOMETRIC DATA (MEASURED):

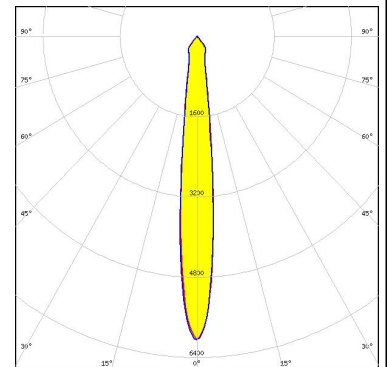


LED Vesta TW 22mm DP
 FWHM 20.0°
 Efficiency 87 %
 Peak intensity 3.2 cd/lm
 LEDs/each optic 1
 Light colour Tunable White
 Required components:
 C13584_CLAMP-VERO29
 F13671_ANGE-RZ-LENS
 Bender Wirth: 494 Typ L3



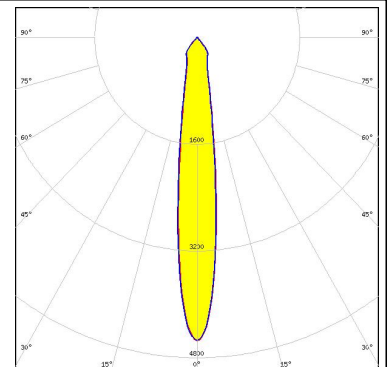
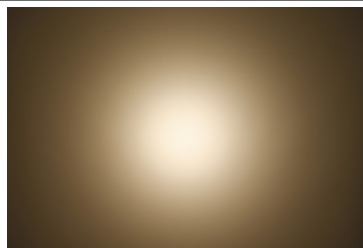
CITIZEN

LED CLL03x/CLU03x
 FWHM 13.0°
 Efficiency 89 %
 Peak intensity 6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 IDEAL: 50-2103CT + 50-2100AN



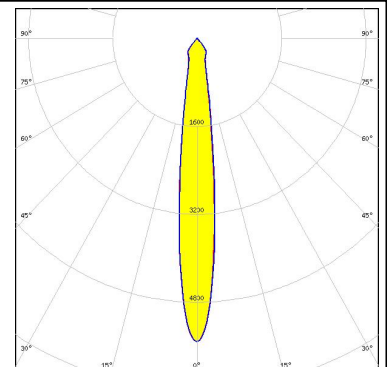
CITIZEN

LED CLL03x/CLU03x
 FWHM 15.0°
 Efficiency 85 %
 Peak intensity 4.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGE-RZ-LENS
 TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



CITIZEN

LED CLL03x/CLU03x
 FWHM 14.0°
 Efficiency 89 %
 Peak intensity 5.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C16791_CLAMP-Z45-A
 F13671_ANGE-RZ-LENS
 TE: 2325807-3

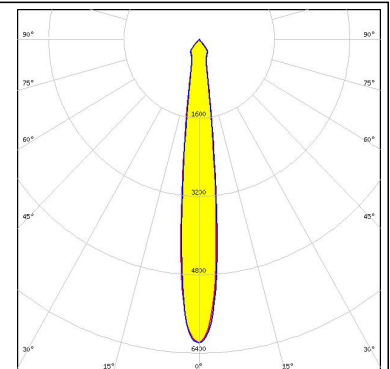


PHOTOMETRIC DATA (MEASURED):

CITIZEN

LED CLL03x/CLU03x
FWHM 13.0°
Efficiency 90 %
Peak intensity 6.2 cd/Im
LEDs/each optic 1
Light colour White
Required components:

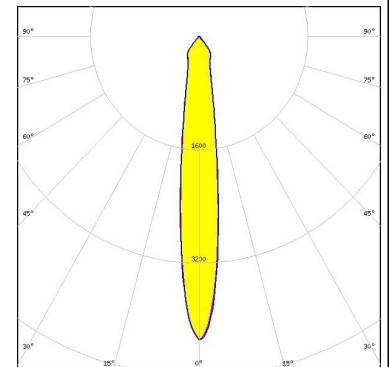
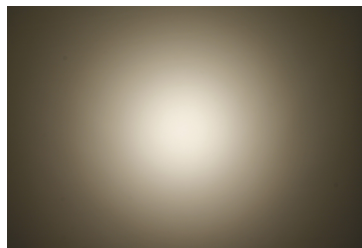
TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



CITIZEN

LED CLL03x/CLU03x
FWHM 15.0°
Efficiency 85 %
Peak intensity 4.3 cd/Im
LEDs/each optic 1
Light colour White
Required components:

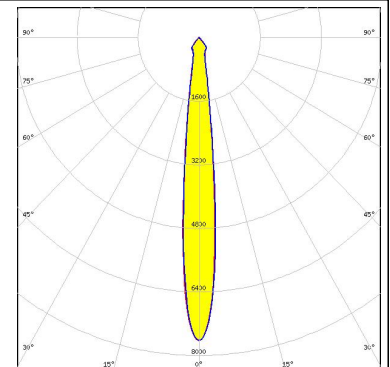
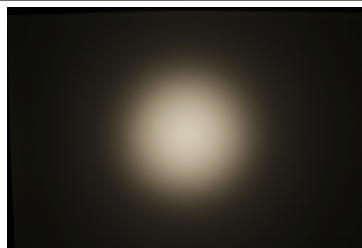
F13671_ANGE-RZ-LENS
IDEAL: 50-2103CT + 50-2100AN



CITIZEN

LED CLL03x/CLU03x
FWHM 12.0°
Efficiency 93 %
Peak intensity 7.6 cd/Im
LEDs/each optic 1
Light colour White
Required components:

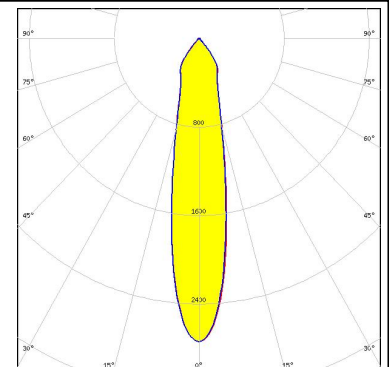
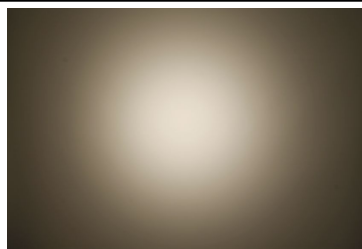
C16791_CLAMP-Z45-A
TE: 2325807-3



CITIZEN

LED CLL04x/CLU04x
FWHM 21.0°
Efficiency 85 %
Peak intensity 2.7 cd/Im
LEDs/each optic 1
Light colour White
Required components:

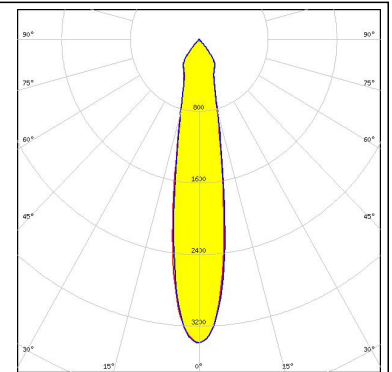
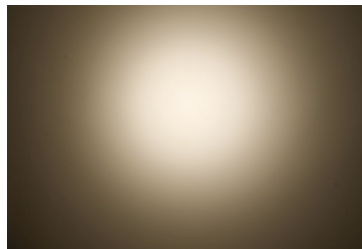
F13671_ANGE-RZ-LENS
IDEAL: 50-2204-CT + 50-2100AN



PHOTOMETRIC DATA (MEASURED):

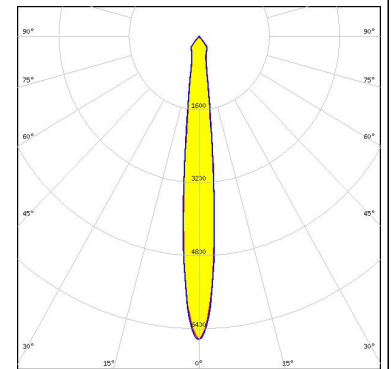
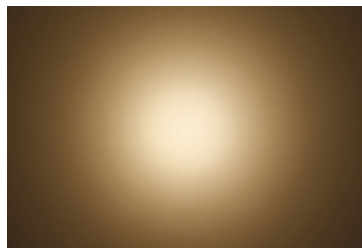
CITIZEN

LED CLL04x/CLU04x
FWHM 19.0°
Efficiency 90 %
Peak intensity 3.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2204-CT + 50-2100AN



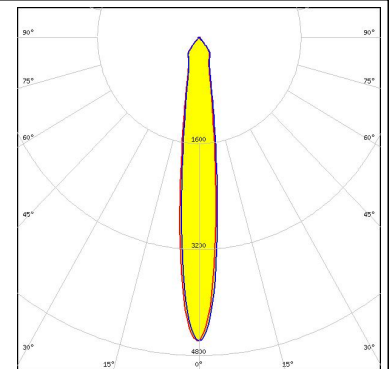
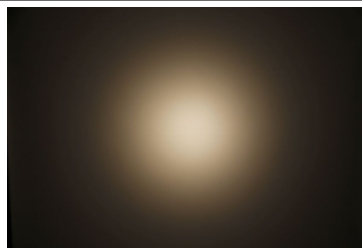
CITIZEN

LED CLU730/731
FWHM 12.0°
Efficiency 89 %
Peak intensity 6.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2204-CT + 50-2100AN



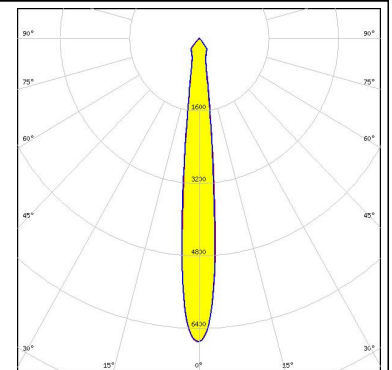
CITIZEN

LED CLU730/731
FWHM 14.0°
Efficiency 85 %
Peak intensity 4.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
IDEAL: 50-2204-CT + 50-2100AN



CREE

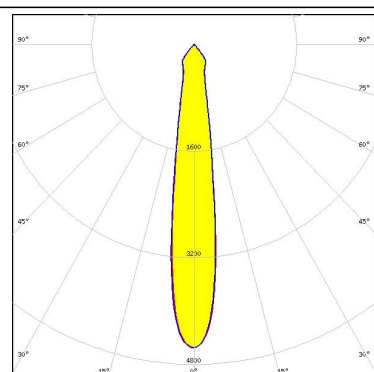
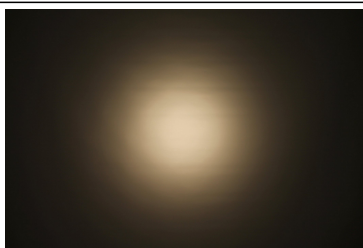
LED CMA1840
FWHM 12.0°
Efficiency 91 %
Peak intensity 6.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14123_CLAMP-CXA15-18



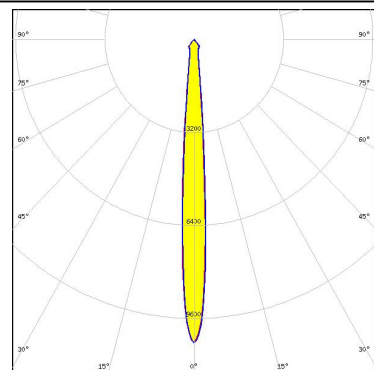
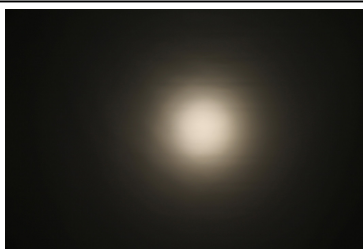
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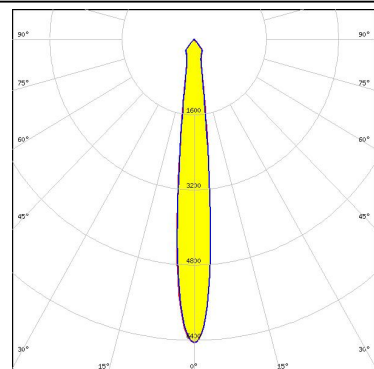
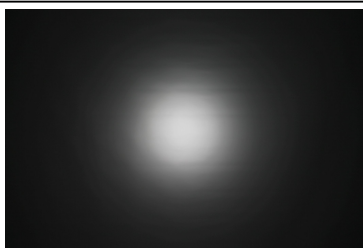
LED CMA2550
FWHM 16.0°
Efficiency 91 %
Peak intensity 4.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14036_CLAMP_CXA25-30



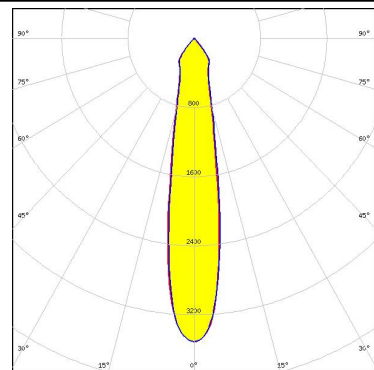
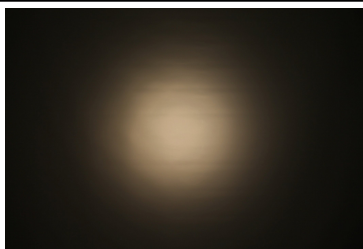
LED CMT14xx
FWHM 9.0°
Efficiency 91 %
Peak intensity 10.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 434 Typ L1



LED CMT19xx
FWHM 12.0°
Efficiency 91 %
Peak intensity 6.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 477 Typ L1



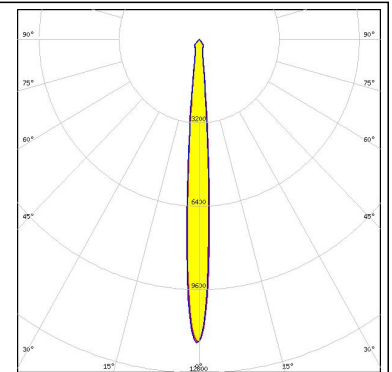
LED CMT28xx
FWHM 19.0°
Efficiency 90 %
Peak intensity 3.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13584_CLAMP-VERO29
Bender Wirth: 471 Typ L3



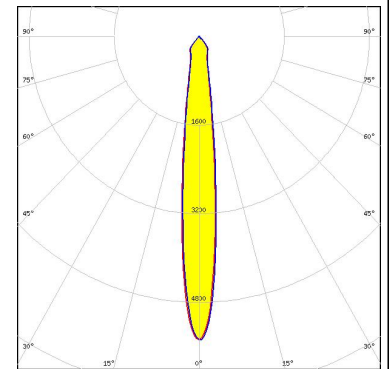
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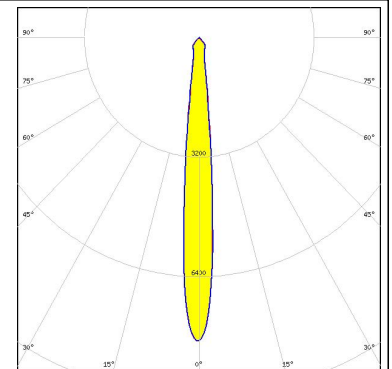
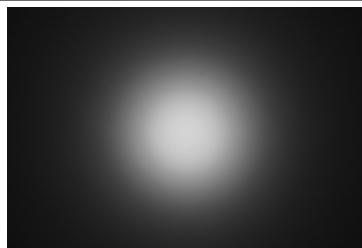
LED CXA/B 15xx
FWHM 8.0°
Efficiency 90 %
Peak intensity 12 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14123_CLAMP-CXA15-18



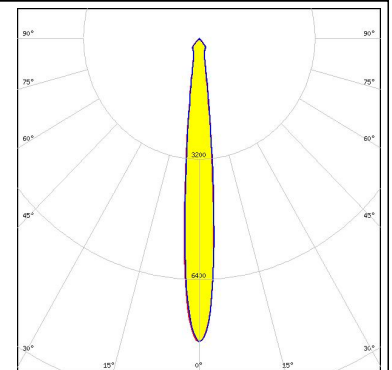
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM 13.0°
Efficiency 86 %
Peak intensity 5.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
TE: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1



LED CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM 11.0°
Efficiency 90 %
Peak intensity 8.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14123_CLAMP-CXA15-18



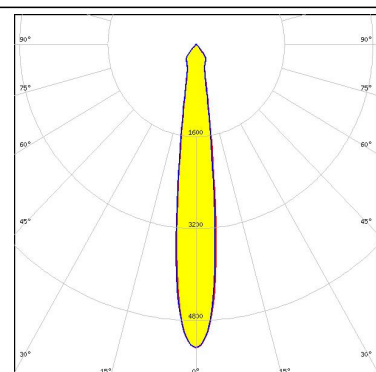
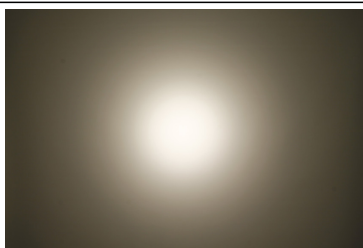
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM 11.0°
Efficiency 91 %
Peak intensity 8.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



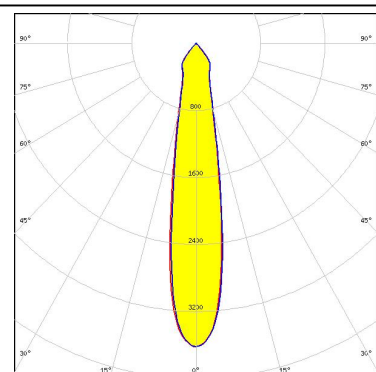
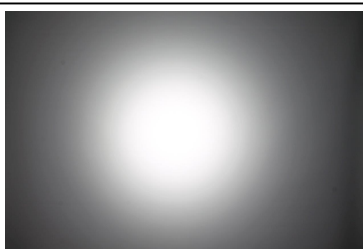
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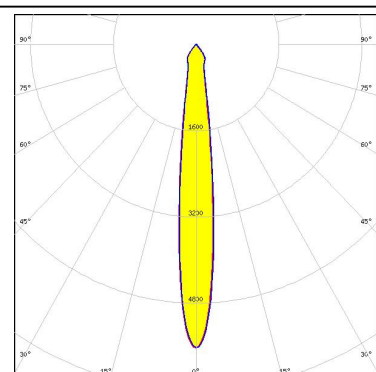
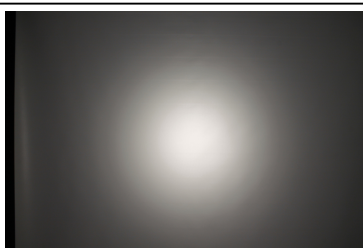
LED CXA/B 25xx
FWHM 15.0°
Efficiency 90 %
Peak intensity 5.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14036_CLAMP_CXA25-30



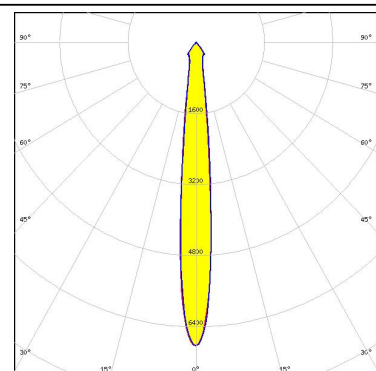
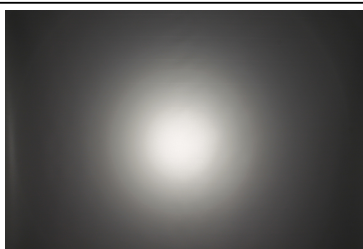
LED CXA/B 30xx
FWHM 19.0°
Efficiency 90 %
Peak intensity 3.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14036_CLAMP_CXA25-30



LED LUXEON CoB 1204/1205
FWHM 13.0°
Efficiency 87 %
Peak intensity 5.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15412_ANGELETTE-DL
TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



LED LUXEON CoB 1204/1205
FWHM 12.0°
Efficiency 88 %
Peak intensity 6.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15176_ANGELETTE-LENS
TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1

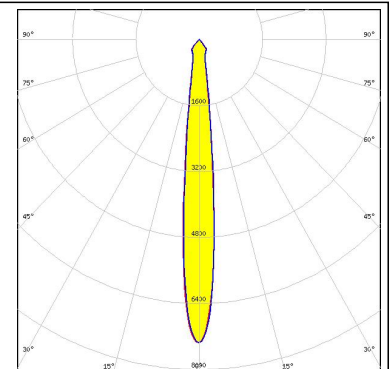
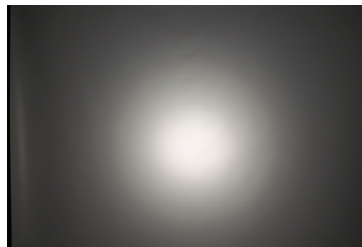


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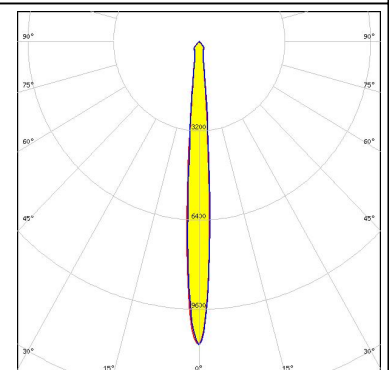
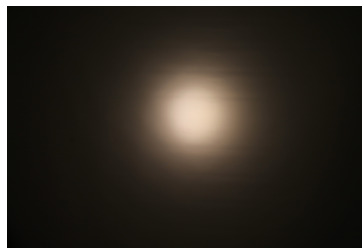
LED LUXEON CoB 1204/1205
 FWHM 12.0°
 Efficiency 90 %
 Peak intensity 7.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

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



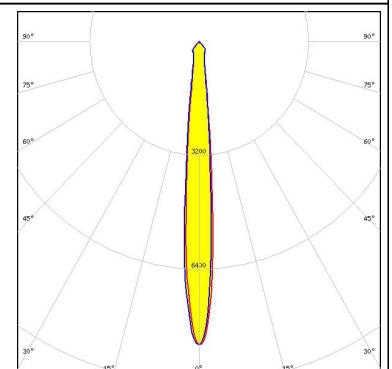
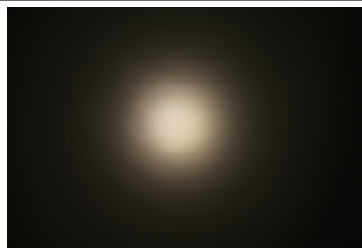
LED LUXEON CoB 1204HD
 FWHM 8.5°
 Efficiency 90 %
 Peak intensity 10.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

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



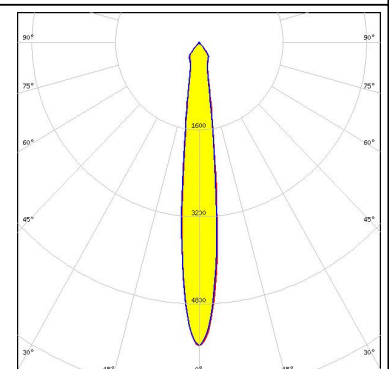
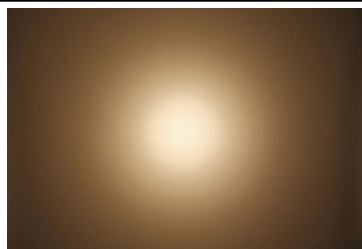
LED LUXEON CoB 1205HD
 FWHM 10.0°
 Efficiency 90 %
 Peak intensity 8.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

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



LED LUXEON CoB 1208
 FWHM 13.0°
 Efficiency 89 %
 Peak intensity 5.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

IDEAL: 50-2100SH + 50-2100AN

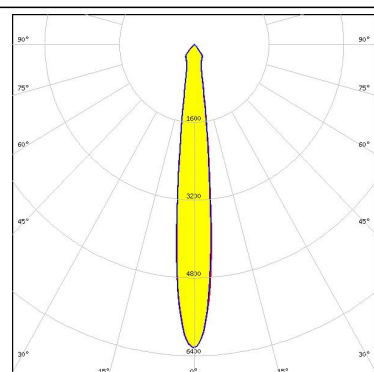
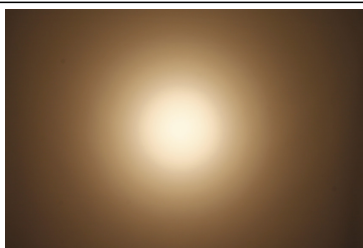


PHOTOMETRIC DATA (MEASURED):



LED LUXEON CoB 1208
FWHM 13.0°
Efficiency 89 %
Peak intensity 6.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:

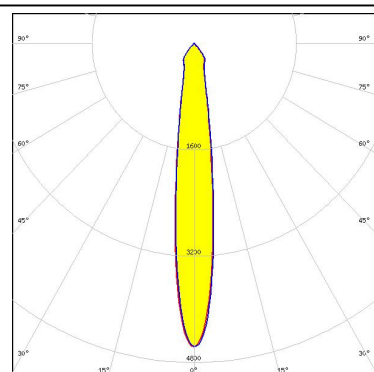
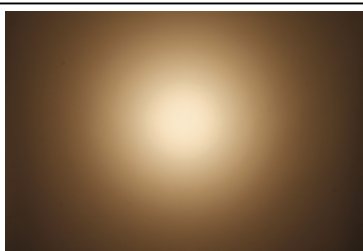
TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



LED LUXEON CoB 1208
FWHM 15.0°
Efficiency 85 %
Peak intensity 4.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:

F13671_ANGE-RZ-LENS

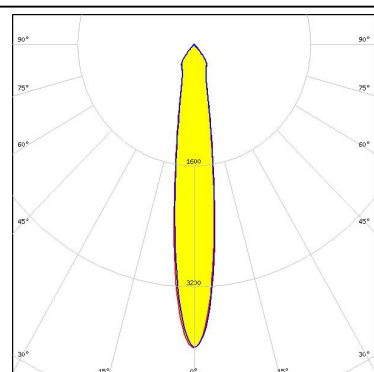
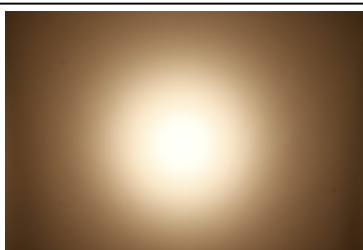
TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



LED LUXEON CoB 1208
FWHM 16.0°
Efficiency 85 %
Peak intensity 4 cd/lm
LEDs/each optic 1
Light colour White
Required components:

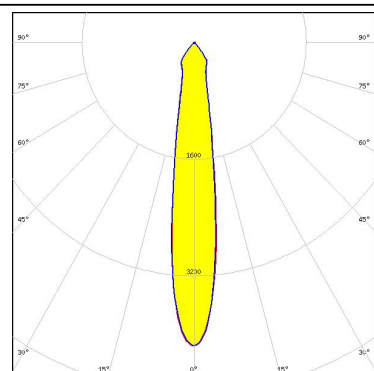
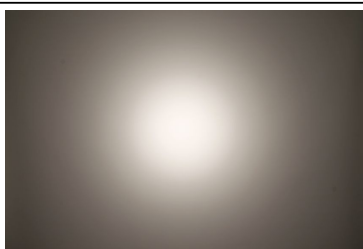
F13671_ANGE-RZ-LENS

IDEAL: 50-2100SH + 50-2100AN



LED LUXEON CoB 1211
FWHM 17.0°
Efficiency 89 %
Peak intensity 4.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:

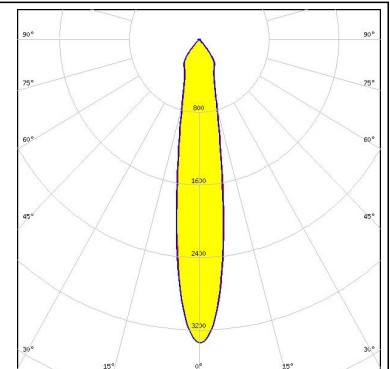
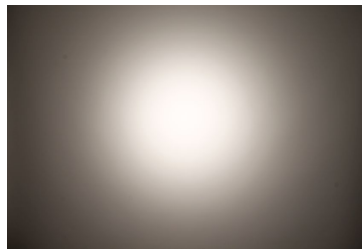
IDEAL: 50-2204-CT + 50-2100AN



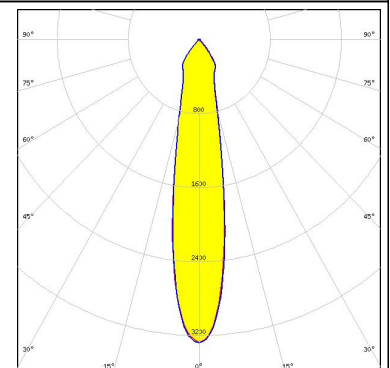
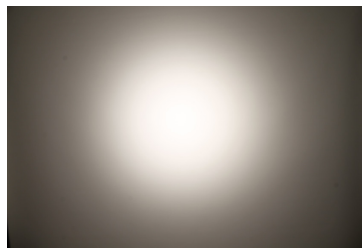
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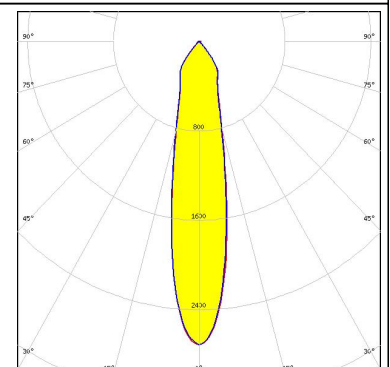
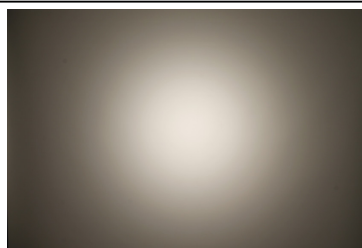
LED LUXEON CoB 1211
 FWHM 18.0°
 Efficiency 86 %
 Peak intensity 3.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGE-RZ-LENS
 IDEAL: 50-2204-CT + 50-2100AN



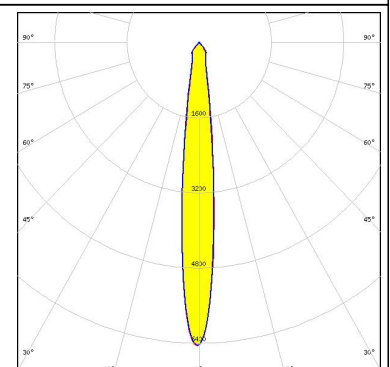
LED LUXEON CoB 1216/1812
 FWHM 20.0°
 Efficiency 89 %
 Peak intensity 3.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 IDEAL: 50-2204-CT + 50-2100AN



LED LUXEON CoB 1216/1812
 FWHM 21.0°
 Efficiency 86 %
 Peak intensity 2.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGE-RZ-LENS
 IDEAL: 50-2204-CT + 50-2100AN



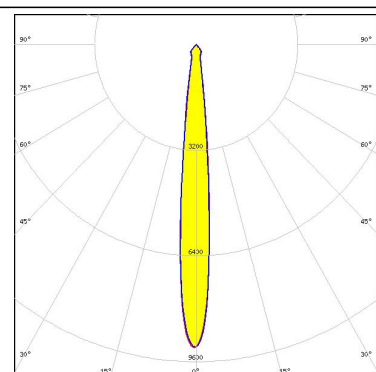
LED CDM-14 (Dim-To-Warm)
 FWHM 12.0°
 Efficiency 87 %
 Peak intensity 6.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13658_CLAMP-VERO13-18
 F13671_ANGE-RZ-LENS
 Bender Wirth: 491 Typ L2



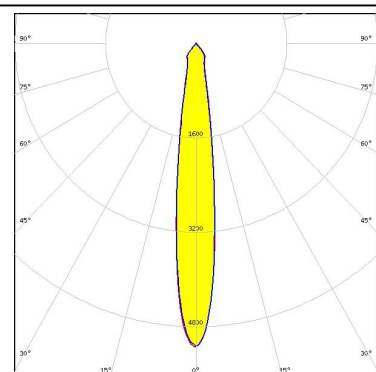
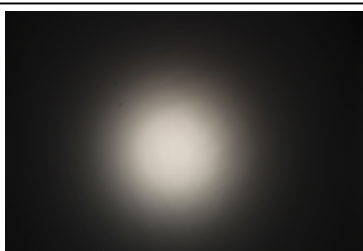
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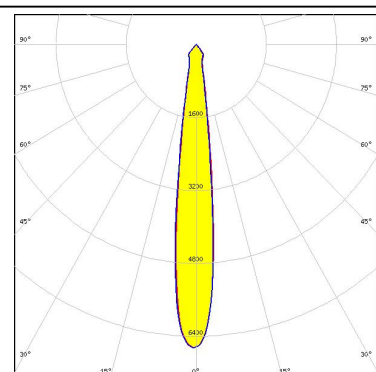
LED CDM-14 (Dim-To-Warm)
 FWHM 11.0°
 Efficiency 91 %
 Peak intensity 9.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 491 Typ L2



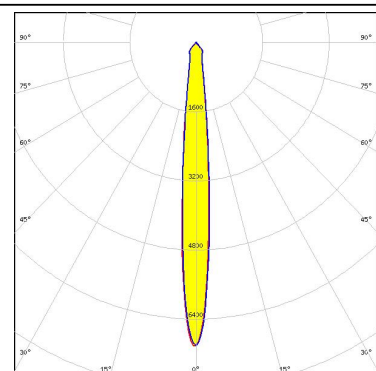
LED CDM-18 (Dim-To-Warm)
 FWHM 15.0°
 Efficiency 87 %
 Peak intensity 5.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13658_CLAMP-VERO13-18
 F13671_ANGE-RZ-LENS
 Bender Wirth: 491 Typ L2



LED CDM-18 (Dim-To-Warm)
 FWHM 14.0°
 Efficiency 92 %
 Peak intensity 6.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 491 Typ L2



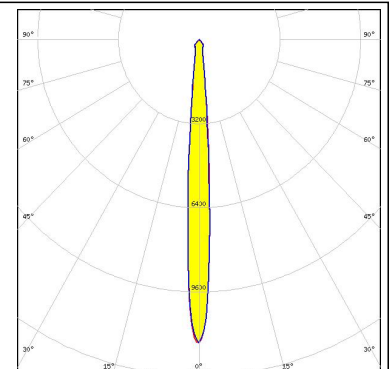
LED CDM-9 (Dim-To-Warm)
 FWHM 11.0°
 Efficiency 84 %
 Peak intensity 7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13658_CLAMP-VERO13-18
 F13671_ANGE-RZ-LENS
 Bender Wirth: 490 Typ L1



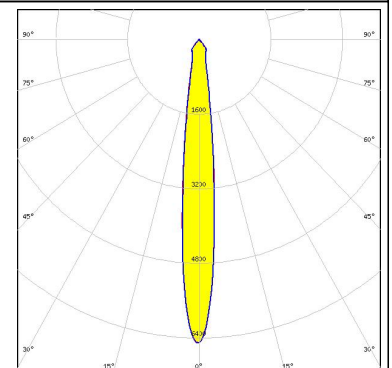
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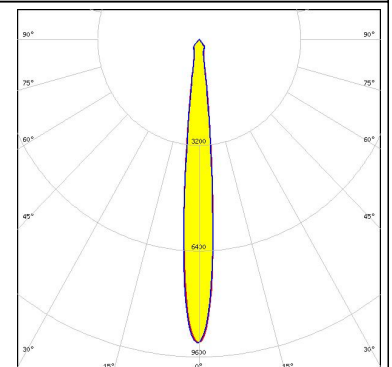
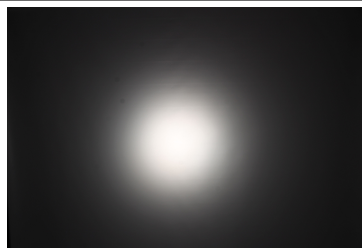
LED CDM-9 (Dim-To-Warm)
 FWHM 8.4°
 Efficiency 89 %
 Peak intensity 11.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 490 Typ L1



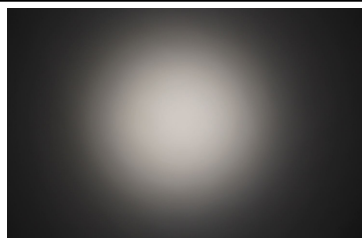
LED CTM-14 (Tunable White)
 FWHM 12.0°
 Efficiency 87 %
 Peak intensity 6.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13584_CLAMP-VERO29
 F13671_ANGE-RZ-LENS
 Bender Wirth: 442 Typ L3



LED CTM-14 (Tunable White)
 FWHM 11.0°
 Efficiency 92 %
 Peak intensity 9.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13584_CLAMP-VERO29
 Bender Wirth: 442 Typ L3



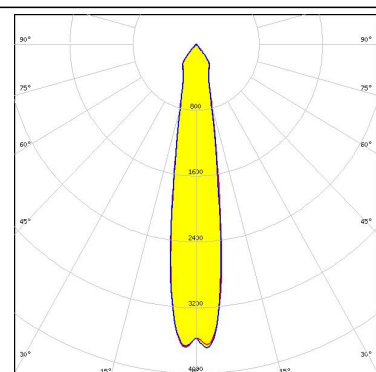
LED CTM-22 (Tunable White)
 FWHM 19.0°
 Efficiency 84 %
 Peak intensity 3.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13584_CLAMP-VERO29
 F13671_ANGE-RZ-LENS
 Bender Wirth: 494 Typ L3



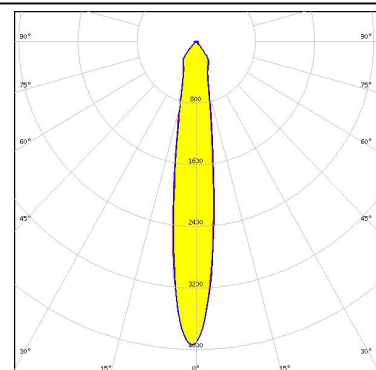
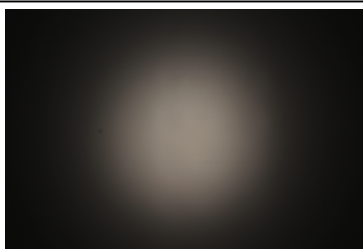
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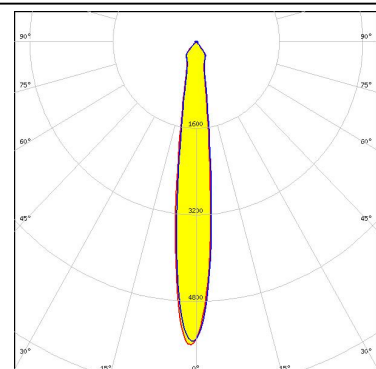
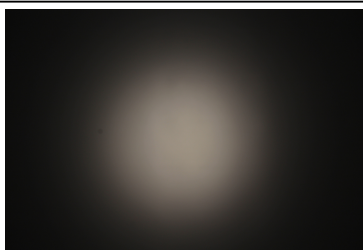
LED CTM-22 (Tunable White)
 FWHM 18.0°
 Efficiency 88 %
 Peak intensity 3.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13584_CLAMP-VERO29
 Bender Wirth: 494 Typ L3



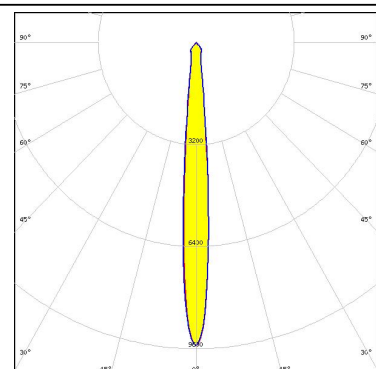
LED COB J-Type
 FWHM 16.0°
 Efficiency 86 %
 Peak intensity 4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGE-RZ-LENS
 IDEAL: 50-2103NC + 50-2100AN



LED COB J-Type
 FWHM 13.0°
 Efficiency 91 %
 Peak intensity 5.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 IDEAL: 50-2103NC + 50-2100AN



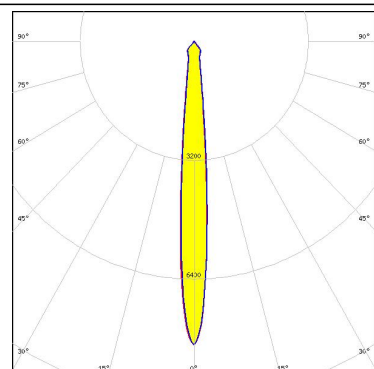
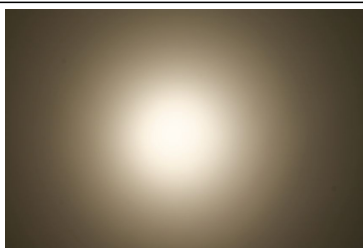
LED COB L-Type (LES 11)
 FWHM 10.0°
 Efficiency 90 %
 Peak intensity 9.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



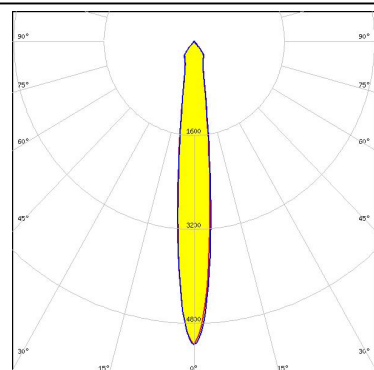
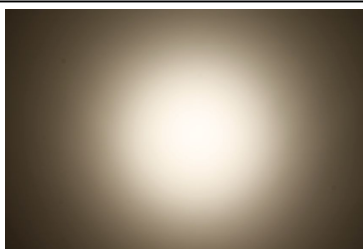
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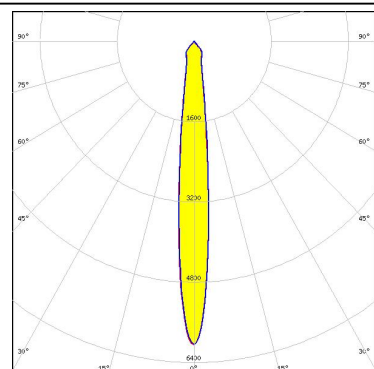
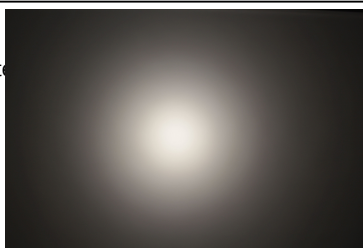
LED COB L-Type (LES 11)
 FWHM 10.0°
 Efficiency 89 %
 Peak intensity 8.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 IDEAL: 50-2100NC + 50-2100AN



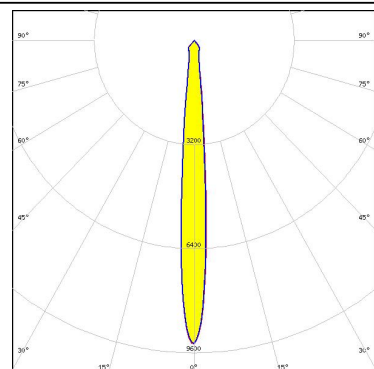
LED COB L-Type (LES 11)
 FWHM 13.0°
 Efficiency 84 %
 Peak intensity 5.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGE-RZ-LENS
 IDEAL: 50-2100NC + 50-2100AN



LED NVCWJ024Z-V1MT: COB J-Type Tunable White
 FWHM 12.0°
 Efficiency 85 %
 Peak intensity 6.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13658_CLAMP-VERO13-18
 F13671_ANGE-RZ-LENS
 Bender Wirth: 498 Typ L2



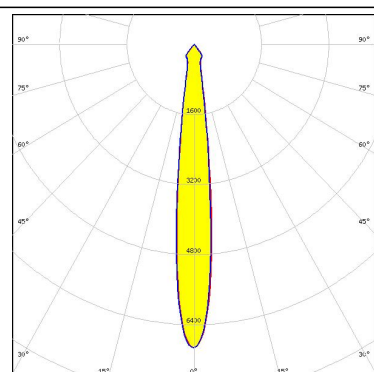
LED NVCWJ024Z-V1MT: COB J-Type Tunable White
 FWHM 10.0°
 Efficiency 90 %
 Peak intensity 9.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 498 Typ L2



PHOTOMETRIC DATA (MEASURED):

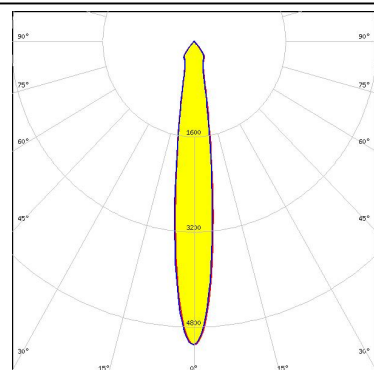
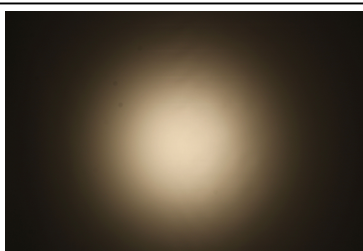
OSRAM

LED PrevaLED Core G7 L15 H1
 FWHM 13.0°
 Efficiency 93 %
 Peak intensity 6.9 cd/Im
 LEDs/each optic 1
 Light colour White
 Required components:
 C16685_CLAMP-PRV-A



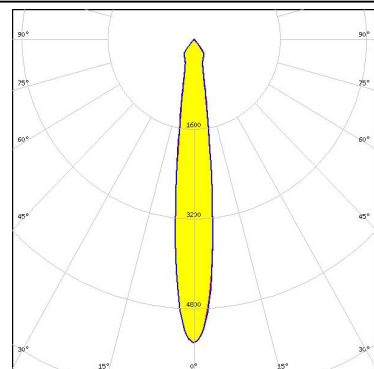
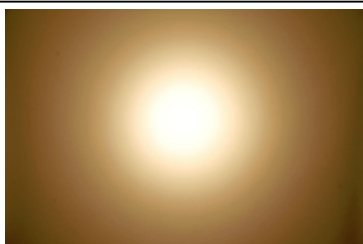
OSRAM

LED PrevaLED Core G7 L15 H1
 FWHM 15.0°
 Efficiency 89 %
 Peak intensity 5.1 cd/Im
 LEDs/each optic 1
 Light colour White
 Required components:
 C16685_CLAMP-PRV-A
 F13671_ANGE-RZ-LENS



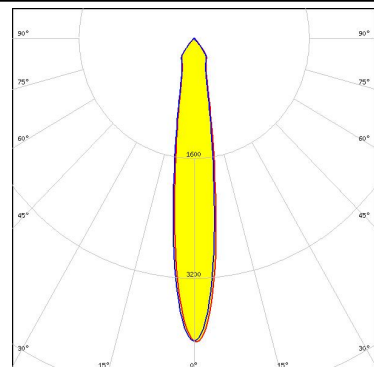
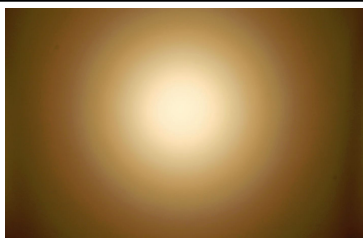
OSRAM

LED PrevaLED Core Z4 LES19
 FWHM 14.0°
 Efficiency 90 %
 Peak intensity 5.4 cd/Im
 LEDs/each optic 1
 Light colour White
 Required components:
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



OSRAM

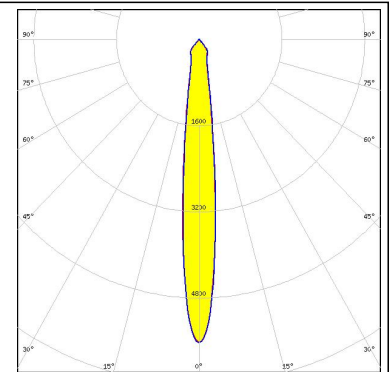
LED PrevaLED Core Z4 LES19
 FWHM 16.0°
 Efficiency 86 %
 Peak intensity 4 cd/Im
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGE-RZ-LENS
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



PHOTOMETRIC DATA (MEASURED):

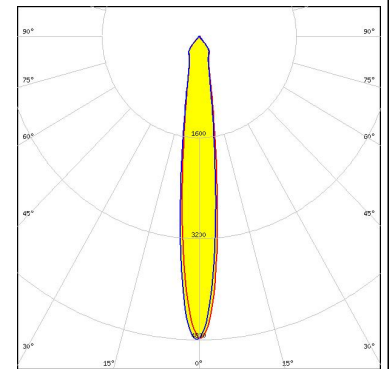
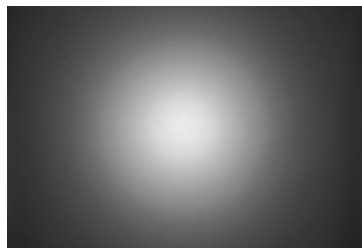
OSRAM
Opto Semiconductors

LED Soleriq S13 19x19
FWHM 13.0°
Efficiency 85 %
Peak intensity 5.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



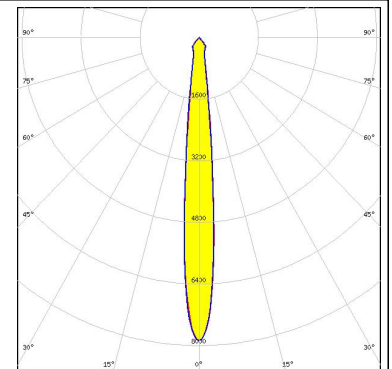
OSRAM
Opto Semiconductors

LED Soleriq S13 19x19
FWHM 14.0°
Efficiency 84 %
Peak intensity 4.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
IDEAL: 50-2103CT + 50-2100AN



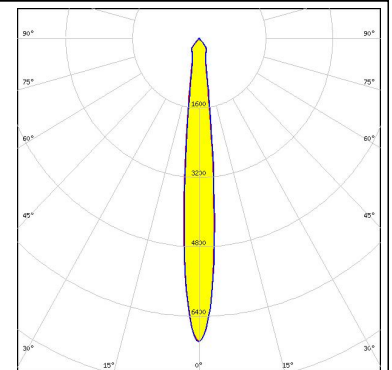
OSRAM
Opto Semiconductors

LED Soleriq S13 19x19
FWHM 11.0°
Efficiency 89 %
Peak intensity 7.9 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 S13 19x19
FWHM 12.0°
Efficiency 89 %
Peak intensity 7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2103CT + 50-2100AN

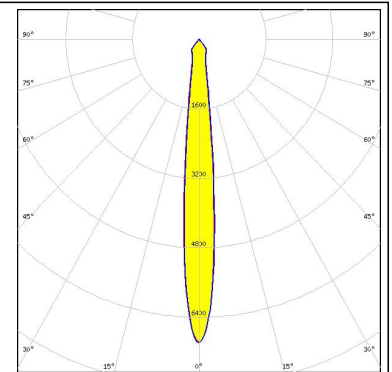


PHOTOMETRIC DATA (MEASURED):

OSRAM

Opto Semiconductors

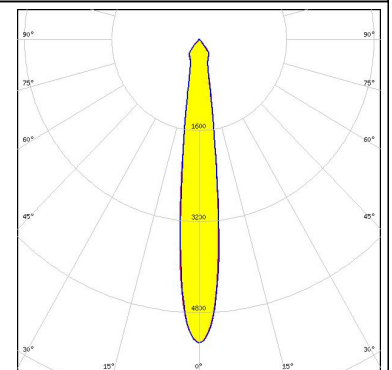
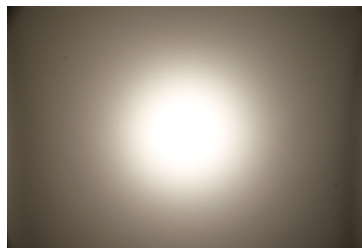
LED Soleriq S13 19x19
FWHM 12.0°
Efficiency 89 %
Peak intensity 7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2103CT + 50-2100AN



OSRAM

Opto Semiconductors

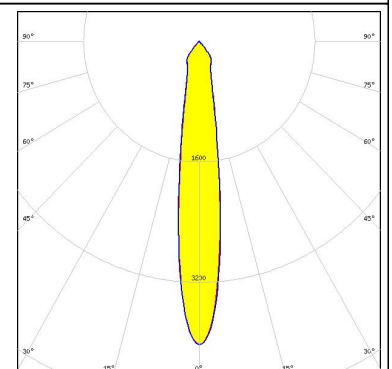
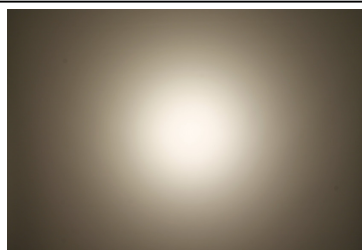
LED Soleriq S19
FWHM 14.0°
Efficiency 90 %
Peak intensity 5.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE: 2213407-2 + OPTIC CLIP Z50 TYPE1 2213194-1



OSRAM

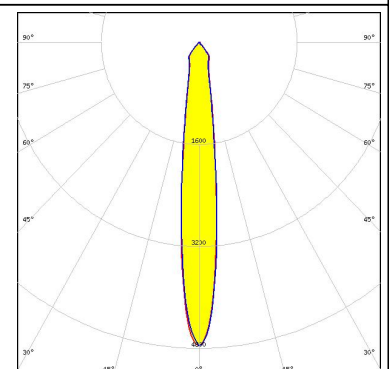
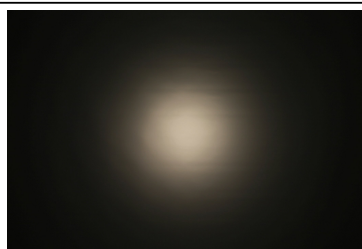
Opto Semiconductors

LED Soleriq S19
FWHM 16.0°
Efficiency 85 %
Peak intensity 4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
TE: 2213407-2 + OPTIC CLIP Z50 TYPE1 2213194-1



PHILIPS

LED Fortimo SLM L13 CoB
FWHM 14.0°
Efficiency 85 %
Peak intensity 4.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1

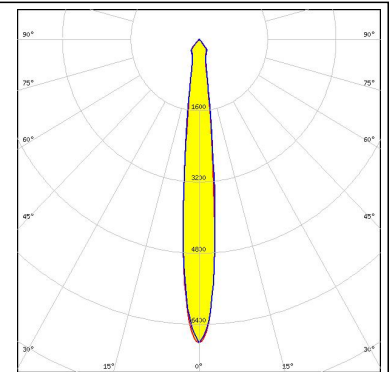
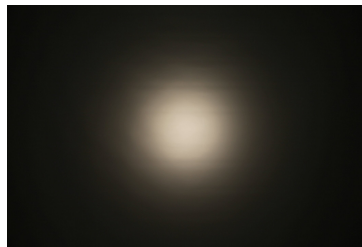


PHOTOMETRIC DATA (MEASURED):

PHILIPS

LED Fortimo SLM L13 CoB
FWHM 12.0°
Efficiency 91 %
Peak intensity 6.9 cd/Im
LEDs/each optic 1
Light colour White
Required components:

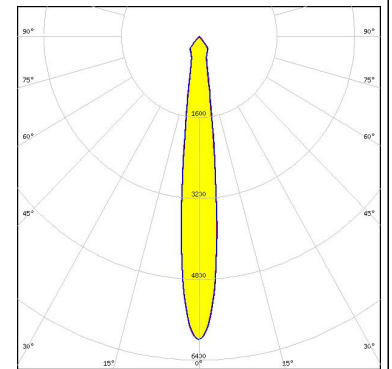
TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



PHILIPS

LED Fortimo SLM L15 + SLM holder
FWHM 13.0°
Efficiency 89 %
Peak intensity 6 cd/Im
LEDs/each optic 1
Light colour White
Required components:

TE: OPTIC CLIP Z50 TYPE1 2213194-1

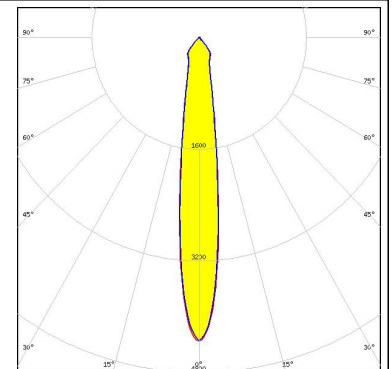
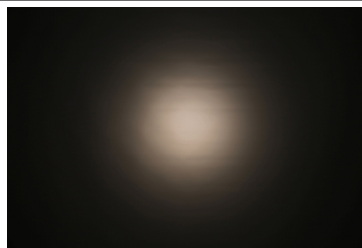


PHILIPS

LED Fortimo SLM L15 CoB
FWHM 15.0°
Efficiency 85 %
Peak intensity 4.4 cd/Im
LEDs/each optic 1
Light colour White
Required components:

F13671_ANGE-RZ-LENS

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

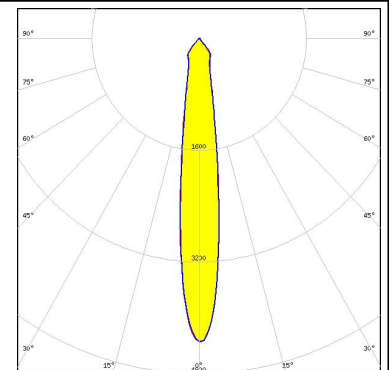
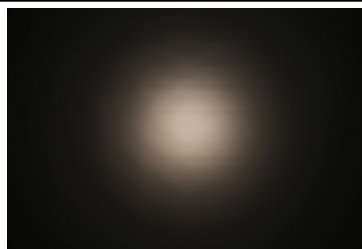


PHILIPS

LED Fortimo SLM L15 CoB
FWHM 15.0°
Efficiency 85 %
Peak intensity 4.4 cd/Im
LEDs/each optic 1
Light colour White
Required components:

F13671_ANGE-RZ-LENS

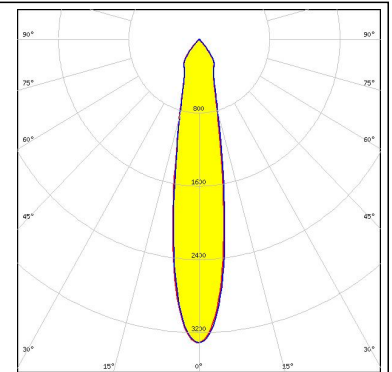
TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



PHOTOMETRIC DATA (MEASURED):

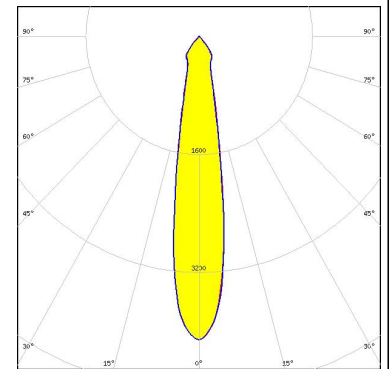
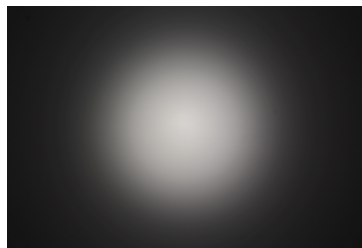
SAMSUNG

LED LC035T (Tunable white)
 FWHM 20.0°
 Efficiency 87 %
 Peak intensity 3.3 cd/lm
 LEDs/each optic 1
 Light colour Tunable White
 Required components:
 C13584_CLAMP-VERO29
 F13671_ANGE-RZ-LENS
 Bender Wirth: 502 Typ L3



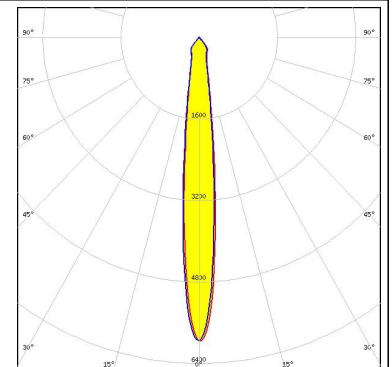
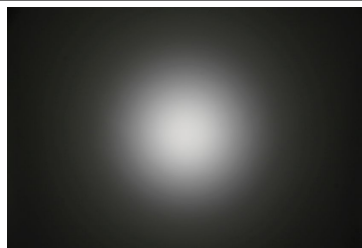
SAMSUNG

LED LC035T (Tunable white)
 FWHM 18.0°
 Efficiency 92 %
 Peak intensity 4.1 cd/lm
 LEDs/each optic 1
 Light colour Tunable White
 Required components:
 C13584_CLAMP-VERO29
 Bender Wirth: 502 Typ L3



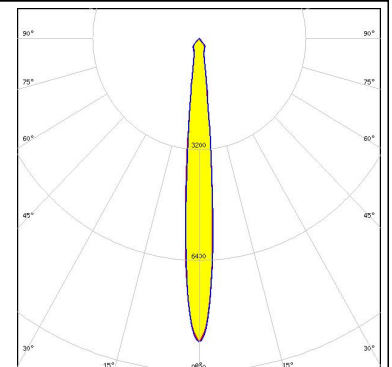
SAMSUNG

LED LC040C
 FWHM 12.0°
 Efficiency 86 %
 Peak intensity 6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGE-RZ-LENS
 TE: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



SAMSUNG

LED LC040C
 FWHM 10.0°
 Efficiency 90 %
 Peak intensity 8.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



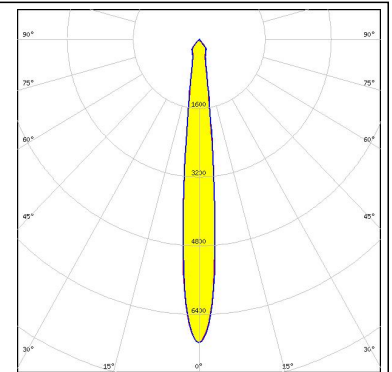
PHOTOMETRIC DATA (MEASURED):

SEOUL SEMICONDUCTOR LED AC Zhaga COB FWHM 14.0° Efficiency 85 % Peak intensity 4.5 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 14.0° Efficiency 89 % Peak intensity 5.7 cd/lm LEDs/each optic 1 Light colour White Required components: TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1		
SEOUL SEMICONDUCTOR LED MJT COB LES 22 FWHM 19.0° Efficiency 88 % Peak intensity 3.4 cd/lm LEDs/each optic 1 Light colour White Required components: C13584_CLAMP-VERO29 Bender Wirth: 431 Typ L3		
VS LIGHTING SOLUTIONS LED WU-M-484 FWHM 13.0° Efficiency 85 % Peak intensity 5.2 cd/lm LEDs/each optic 1 Light colour White Required components: F13671_ANGE-RZ-LENS TE: OPTIC CLIP Z50 TYPE1 2213194-1		

PHOTOMETRIC DATA (MEASURED):

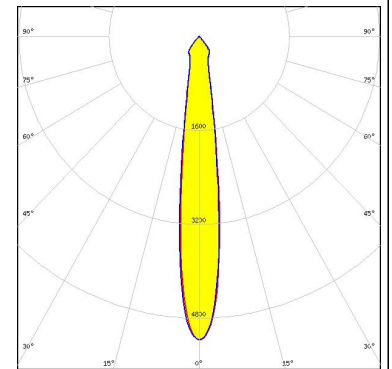
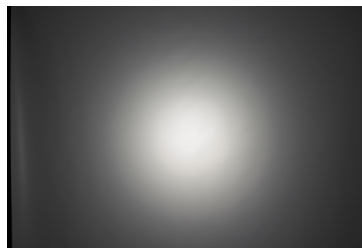


LED WU-M-484
FWHM 12.0°
Efficiency 89 %
Peak intensity 7.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1



XICATO

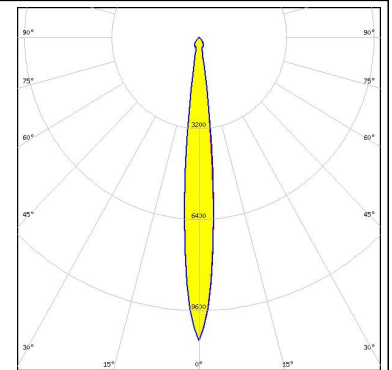
LED XTM - 19mm LES
FWHM 15.0°
Efficiency 91 %
Peak intensity 5.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C16491_XTM-ADAPTER-50-A



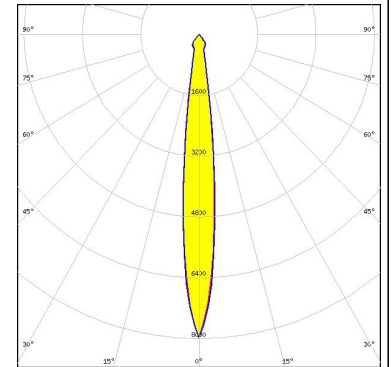
PHOTOMETRIC DATA (SIMULATED):



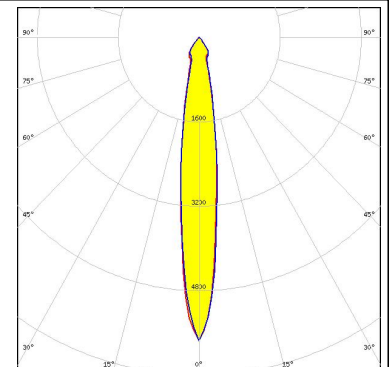
LED V13 Gen7
FWHM 11.0°
Efficiency 92 %
Peak intensity 10.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 477 Typ L1



LED V13 Gen7
FWHM 12.0°
Efficiency 92 %
Peak intensity 8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
 IDEAL: 50-2103CT + 50-2100AN



LED V22 Gen7
FWHM 14.0°
Efficiency 94 %
Peak intensity 5.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
 IDEAL: 50-2204-CT + 50-2100AN



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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LEDiL Oy

Joensuunkatu 13
FI-24240 SALO
Finland

LEDiL Inc.

228 West Page Street
Suite D
Sycamore IL 60178
USA

Local sales and technical support

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

Shipping locations

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