

ANGELA-S

~10° spot beam

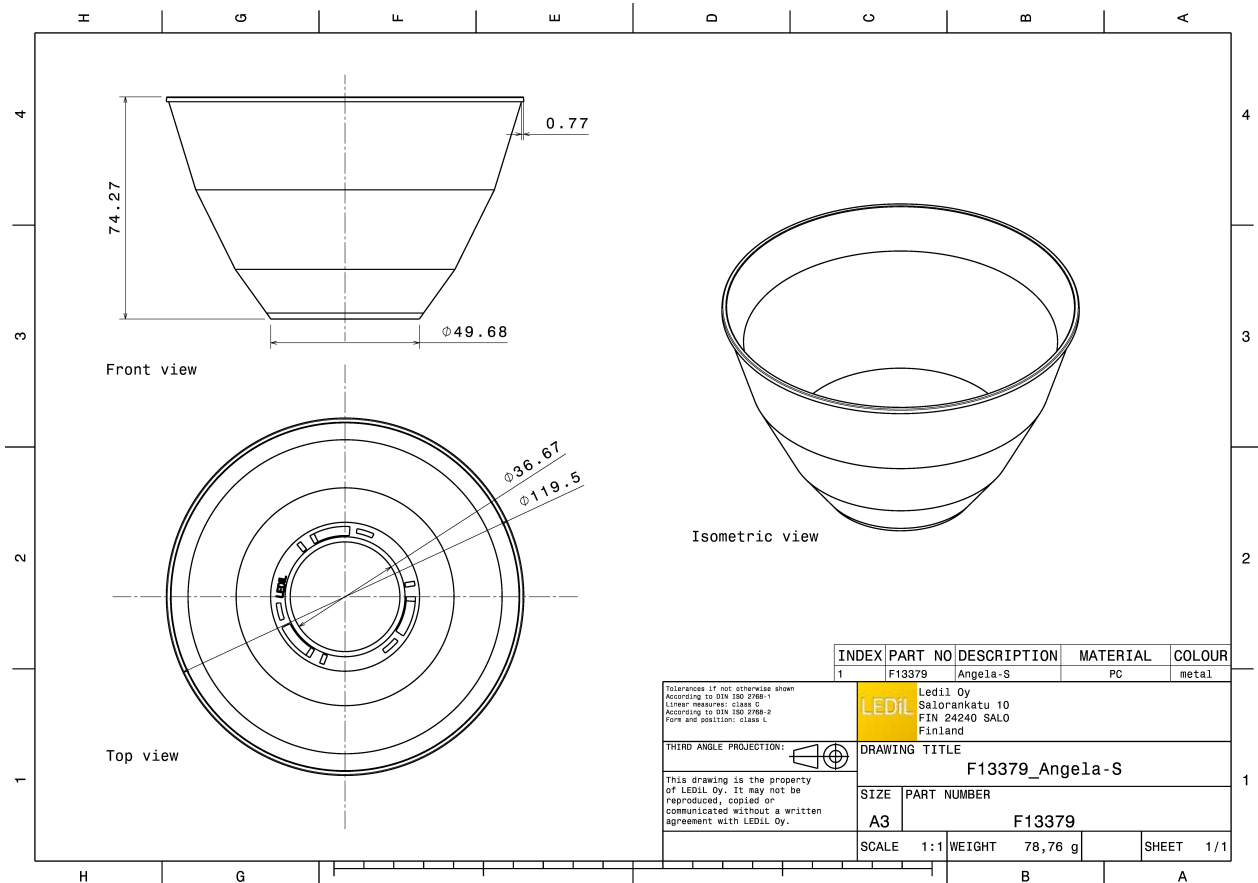
TECHNICAL SPECIFICATIONS:

Dimensions	Ø 119.5 mm
Height	74.3 mm
Fastening	socket
Colour	metal
Box size	398 x 298 x 265 mm
Box weight	9.3 kg
Quantity in Box	200 pcs
ROHS compliant	yes ⓘ



MATERIAL SPECIFICATIONS:

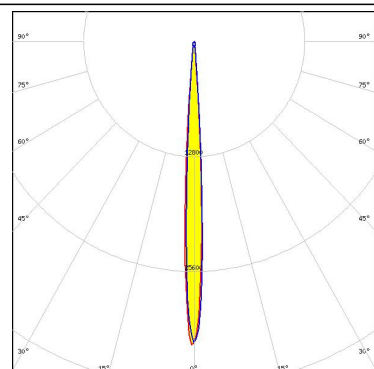
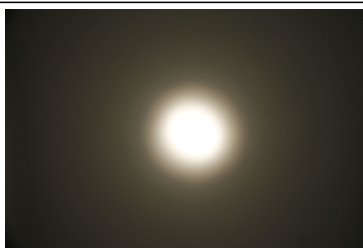
Component	Type	Material	Colour	Coating
ANGELA-S	Reflector	PC	metal	HMDS



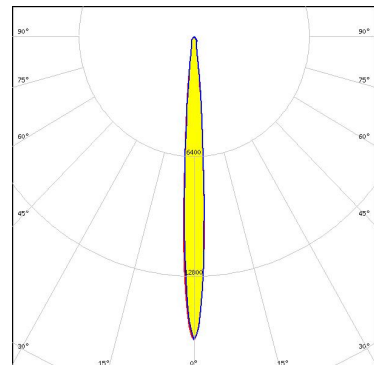
PHOTOMETRIC DATA (MEASURED):



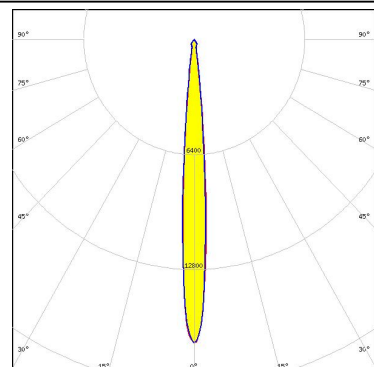
LED V10 Gen7
FWHM 6.0°
Efficiency 89 %
Peak intensity 33.800 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 434 Typ L1



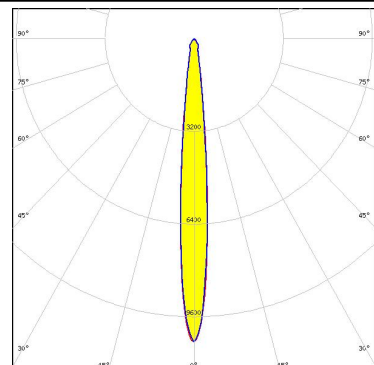
LED V10 Gen7
FWHM 8.0°
Efficiency 84 %
Peak intensity 16.200 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
F13671_ANGE-RZ-LENS
Bender Wirth: 434 Typ L1



LED V13 Gen7
FWHM 9.0°
Efficiency 90 %
Peak intensity 17.000 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



LED V13 Gen7
FWHM 10.0°
Efficiency 86 %
Peak intensity 10.500 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



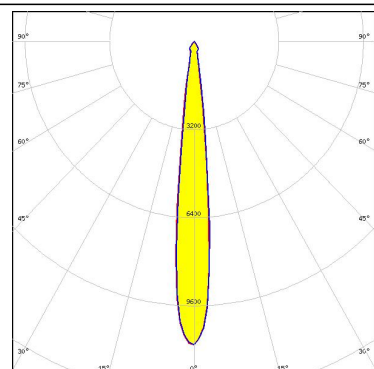
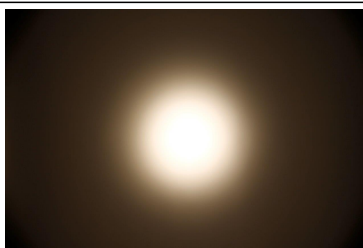
PHOTOMETRIC DATA (MEASURED):

bridgelux. LED V15 Gen6 FWHM 10.0° Efficiency 92 % Peak intensity 15.300 cd/lm LEDs/each optic 1 Light colour White Required components: C13658_CLAMP-VERO13-18 Bender Wirth: 456 Typ L2		
bridgelux. LED Vero SE 13 FWHM 9.0° Efficiency 92 % Peak intensity 19.900 cd/lm LEDs/each optic 1 Light colour White Required components: C16402_CLAMP-VEROSE-13-18		
bridgelux. LED Vero SE 18 FWHM 12.0° Efficiency 91 % Peak intensity 10.500 cd/lm LEDs/each optic 1 Light colour White Required components: C16402_CLAMP-VEROSE-13-18		
bridgelux. LED VERO13 FWHM 8.0° Efficiency 94 % Peak intensity 22.480 cd/lm LEDs/each optic 1 Light colour White Required components: C13658_CLAMP-VERO13-18		

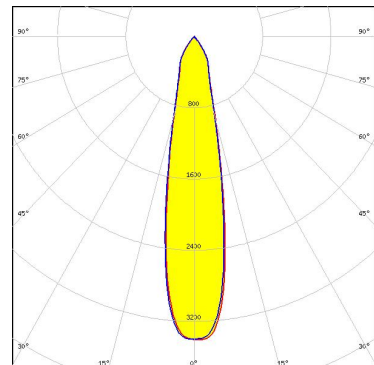
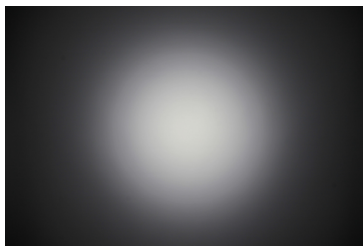
PHOTOMETRIC DATA (MEASURED):



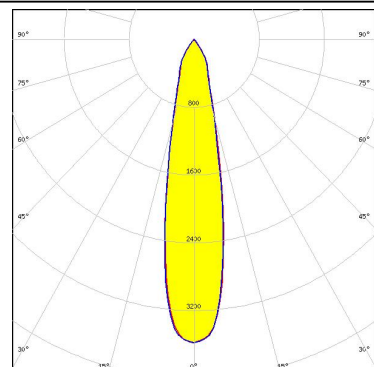
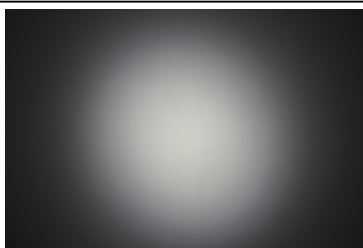
LED VERO18
FWHM 12.0°
Efficiency 93 %
Peak intensity 11.000 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18



LED VERO29
FWHM 22.0°
Efficiency 85 %
Peak intensity 3.410 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13584_CLAMP-VERO29
F13671_ANGE-RZ-LENS

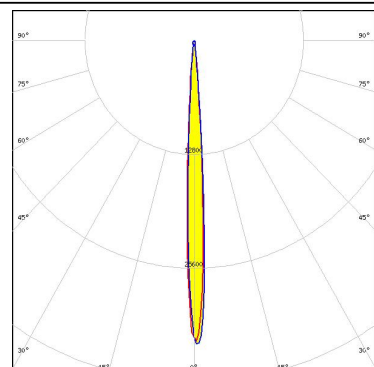


LED VERO29
FWHM 22.0°
Efficiency 85 %
Peak intensity 3.580 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13584_CLAMP-VERO29
F13671_ANGE-RZ-LENS



CITIZEN

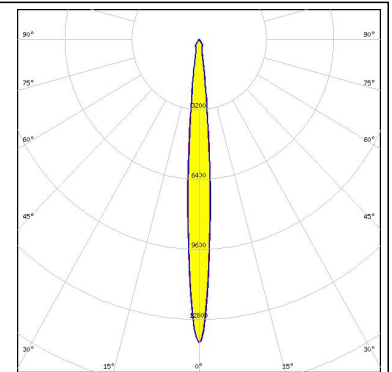
LED CLL02x/CLU02x (LES10)
FWHM 6.0°
Efficiency 90 %
Peak intensity 34.100 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 434 Typ L1



PHOTOMETRIC DATA (MEASURED):

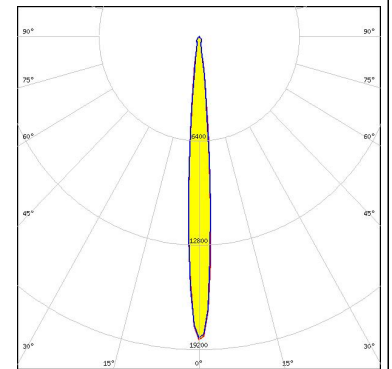
CITIZEN

LED CLL03x/CLU03x
FWHM 9.0°
Efficiency 88 %
Peak intensity 14.000 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2103CT + 50-2100AN



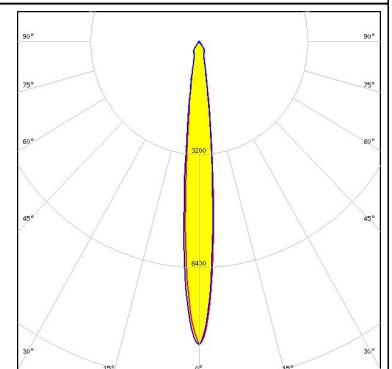
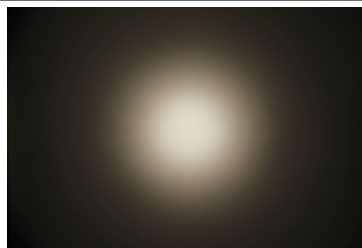
CITIZEN

LED CLL03x/CLU03x
FWHM 9.0°
Efficiency 94 %
Peak intensity 18.600 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



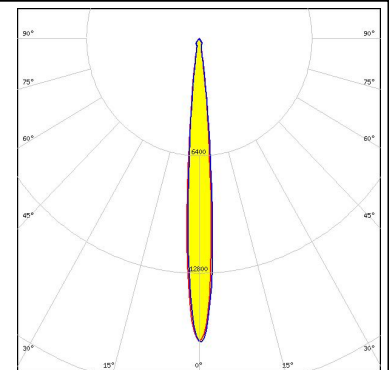
CITIZEN

LED CLL03x/CLU03x
FWHM 11.0°
Efficiency 84 %
Peak intensity 8.600 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
IDEAL: 50-2103CT + 50-2100AN



CITIZEN

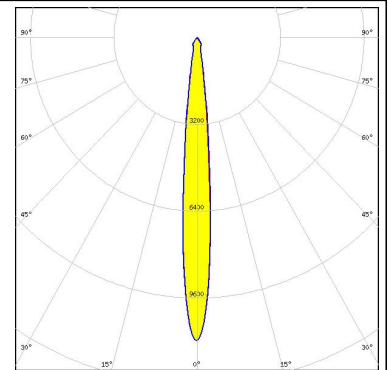
LED CLL03x/CLU03x
FWHM 9.0°
Efficiency 93 %
Peak intensity 16.600 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C16791_CLAMP-Z45-A
TE: 2325807-3



PHOTOMETRIC DATA (MEASURED):

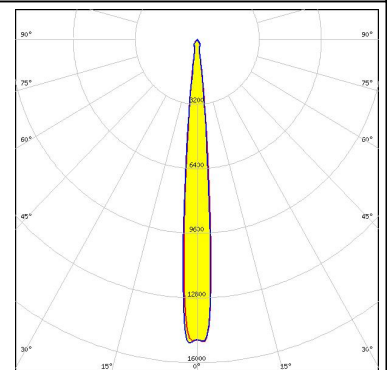
CITIZEN

LED CLL03x/CLU03x
FWHM 10.0°
Efficiency 89 %
Peak intensity 11.200 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C16791_CLAMP-Z45-A
F13671_ANGE-RZ-LENS
TE: 2325807-3



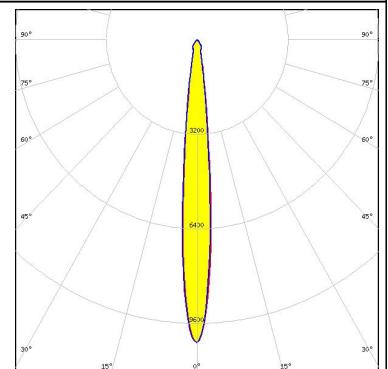
CITIZEN

LED CLL03x/CLU03x
FWHM 10.0°
Efficiency 88 %
Peak intensity 15.000 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 433 Typ L1



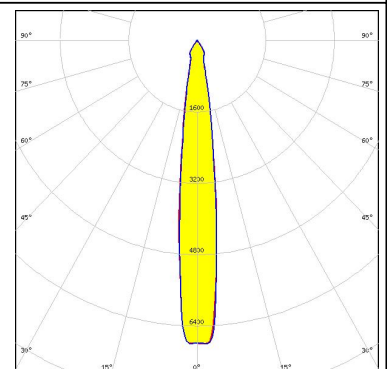
CITIZEN

LED CLL03x/CLU03x
FWHM 11.0°
Efficiency 85 %
Peak intensity 10.000 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

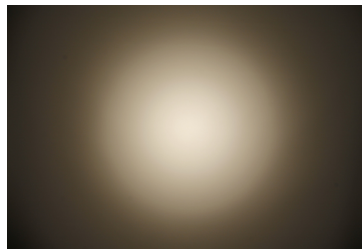
LED CLL04x/CLU04x
FWHM 14.0°
Efficiency 89 %
Peak intensity 6.800 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13584_CLAMP-VERO29
Bender Wirth: 431 Typ L3



PHOTOMETRIC DATA (MEASURED):

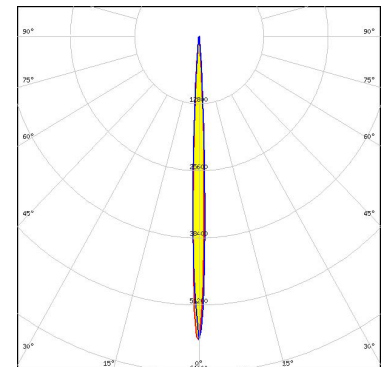
CITIZEN

LED CLL04x/CLU04x
FWHM 16.0°
Efficiency 85 %
Peak intensity 5.200 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
IDEAL: 50-2204-CT + 50-2100AN



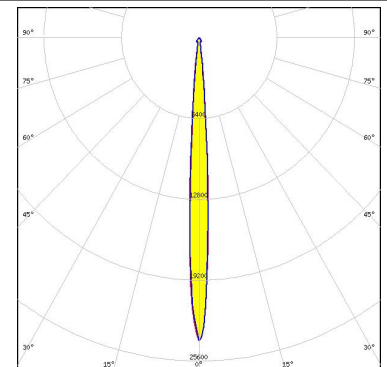
CITIZEN

LED CLU700/701
FWHM 5.0°
Efficiency 88 %
Peak intensity 57.800 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 434 Typ L1



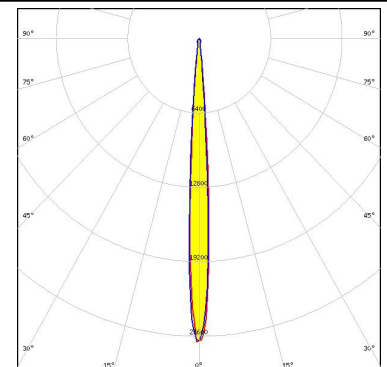
CITIZEN

LED CLU720/721
FWHM 7.0°
Efficiency 94 %
Peak intensity 24.000 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



CITIZEN

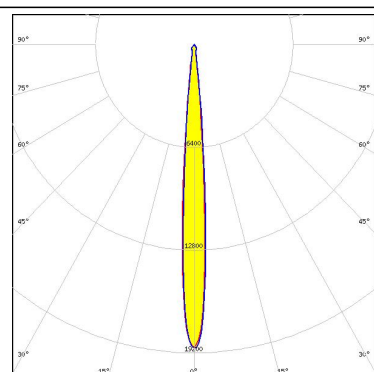
LED CLU720/721
FWHM 7.0°
Efficiency 88 %
Peak intensity 26.100 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 433 Typ L1



PHOTOMETRIC DATA (MEASURED):

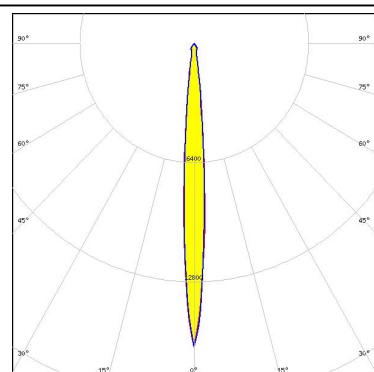
CITIZEN

LED CLU730/731
FWHM 8.5°
Efficiency 91 %
Peak intensity 18.900 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13584_CLAMP-VERO29
Bender Wirth: 471 Typ L3



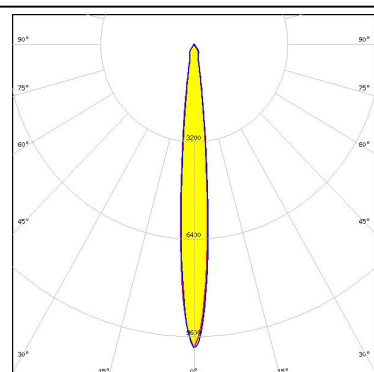
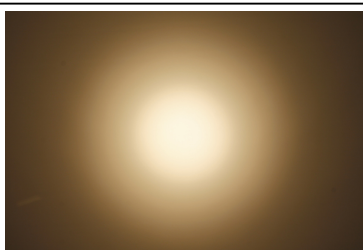
CITIZEN

LED CLU730/731
FWHM 8.0°
Efficiency 88 %
Peak intensity 16.300 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2204-CT + 50-2100AN



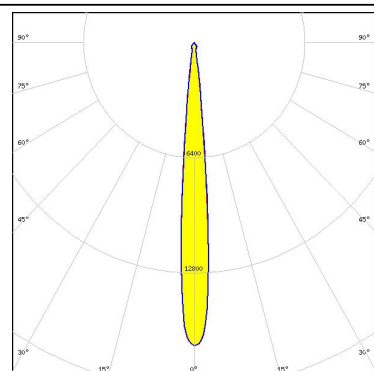
CITIZEN

LED CLU730/731
FWHM 10.0°
Efficiency 85 %
Peak intensity 10.000 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
IDEAL: 50-2204-CT + 50-2100AN



CREE

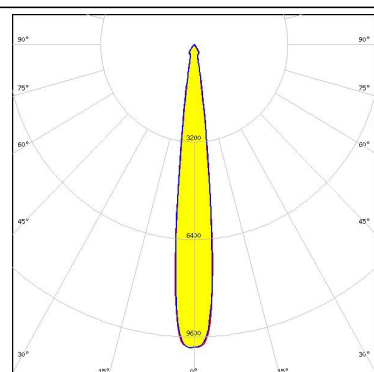
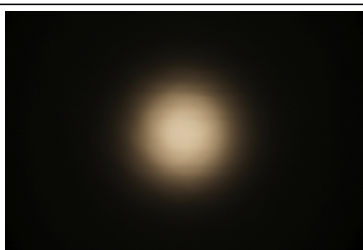
LED CMA1840
FWHM 9.7°
Efficiency 93 %
Peak intensity 16.900 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14123_CLAMP-CXA15-18



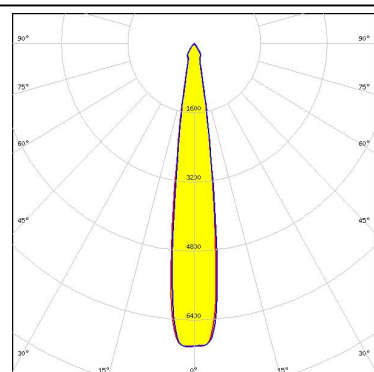
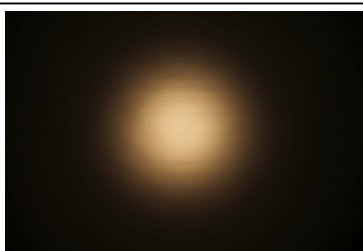
PHOTOMETRIC DATA (MEASURED):



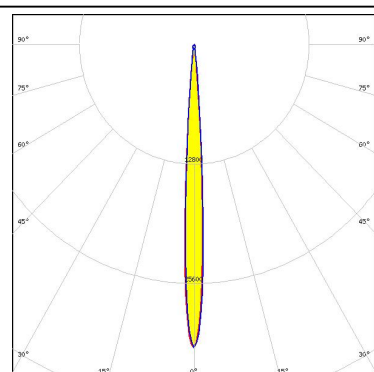
LED CMA2550
FWHM 13.0°
Efficiency 92 %
Peak intensity 10.000 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14036_CLAMP_CXA25-30



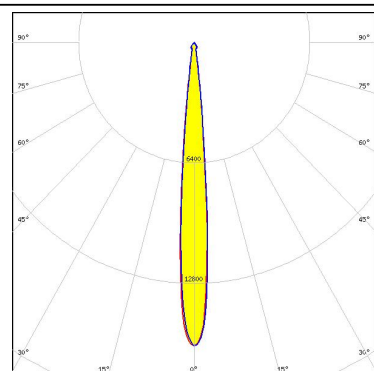
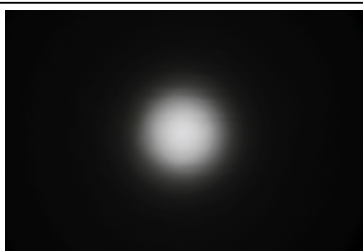
LED CMA3090
FWHM 15.0°
Efficiency 92 %
Peak intensity 7.000 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14036_CLAMP_CXA25-30



LED CMT14xx
FWHM 7.0°
Efficiency 93 %
Peak intensity 33.000 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 434 Typ L1



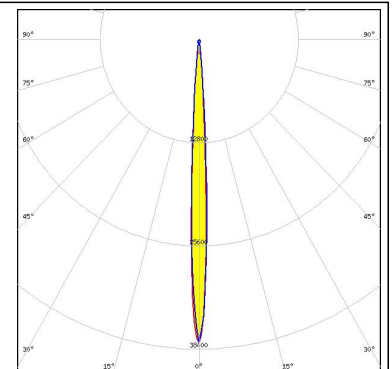
LED CMT19xx
FWHM 10.0°
Efficiency 92 %
Peak intensity 16.127 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 477 Typ L1



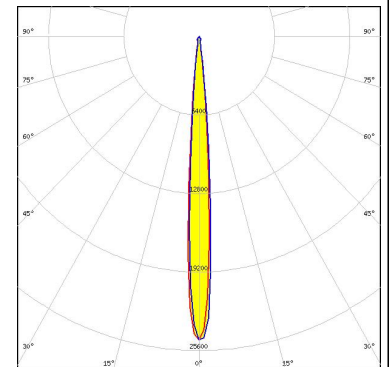
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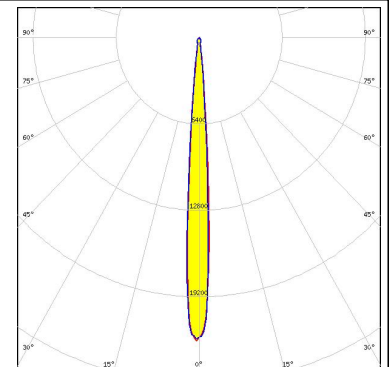
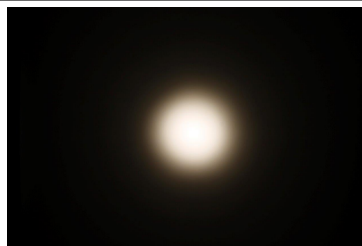
LED CXA/B 15xx
FWHM 5.8°
Efficiency 92 %
Peak intensity 37.600 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 441 Typ L1



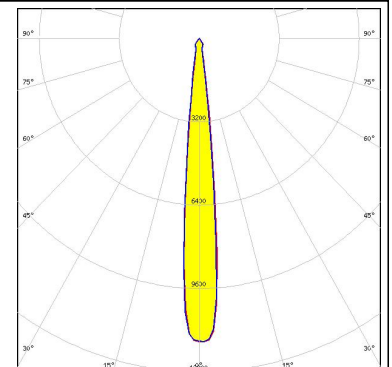
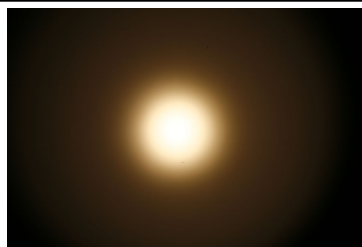
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM 9.0°
Efficiency 91 %
Peak intensity 24.700 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14123_CLAMP-CXA15-18



LED CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM 8.0°
Efficiency 89 %
Peak intensity 22.600 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 437 Typ L1



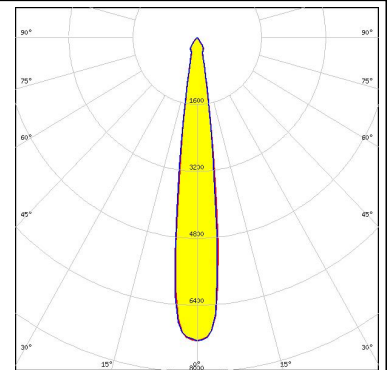
LED CXA/B 25xx
FWHM 11.0°
Efficiency 92 %
Peak intensity 11.700 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14036_CLAMP_CXA25-30



PHOTOMETRIC DATA (MEASURED):

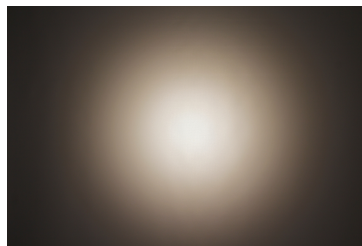
CREE

LED CXA/B 30xx
FWHM 14.0°
Efficiency 92 %
Peak intensity 7.300 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14036_CLAMP_CXA25-30



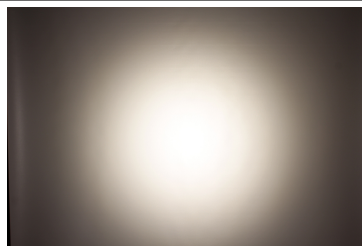
EVERLIGHT

LED CHI3030 19W
FWHM 14.0°
Efficiency 85 %
Peak intensity 6.100 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13584_CLAMP-VERO29
F13671_ANGE-RZ-LENS
Bender Wirth: 468 Typ L3



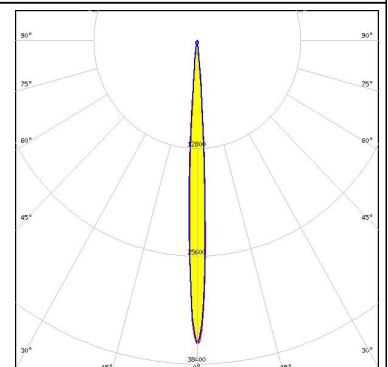
EVERLIGHT

LED CHI3030 29W
FWHM 18.0°
Efficiency 85 %
Peak intensity 5.100 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 6.0°
Efficiency 91 %
Peak intensity 36.000 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 438 Typ L1



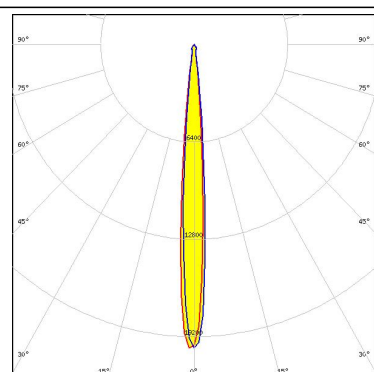
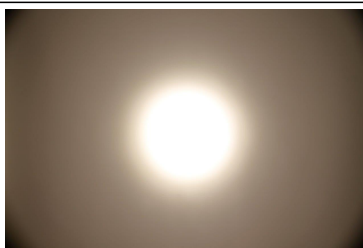
PHOTOMETRIC DATA (MEASURED):



LED LUXEON CoB 1204/1205
FWHM 8.0°
Efficiency 94 %
Peak intensity 19.940 cd/lm
LEDs/each optic 1
Light colour White

Required components:

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

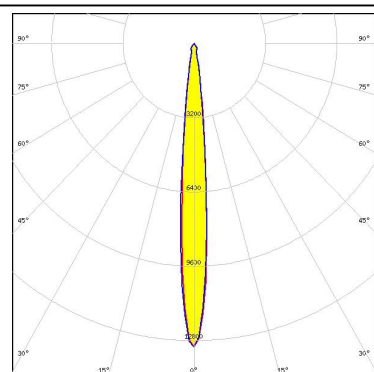


LED LUXEON CoB 1204/1205
FWHM 10.0°
Efficiency 85 %
Peak intensity 13.100 cd/lm
LEDs/each optic 1
Light colour White

Required components:

F13671_ANGE-RZ-LENS

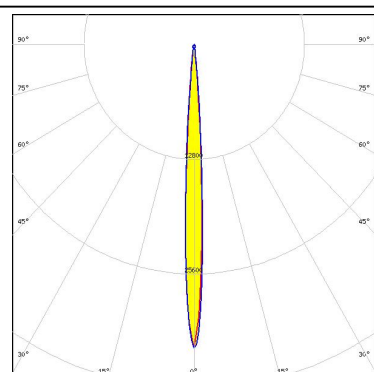
TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



LED LUXEON CoB 1204HD
FWHM 6.4°
Efficiency 93 %
Peak intensity 34.000 cd/lm
LEDs/each optic 1
Light colour White

Required components:

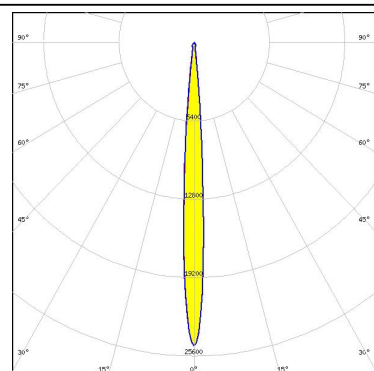
TE: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



LED LUXEON CoB 1205HD
FWHM 7.5°
Efficiency 93 %
Peak intensity 24.800 cd/lm
LEDs/each optic 1
Light colour White

Required components:

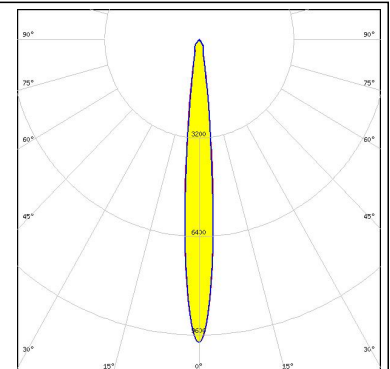
TE: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



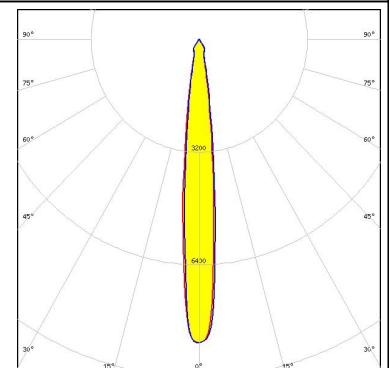
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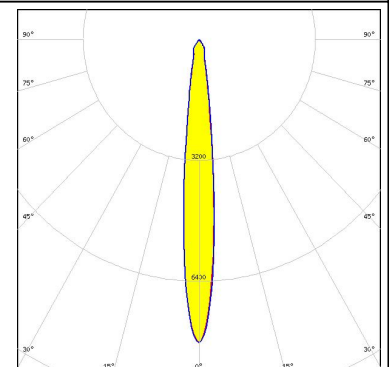
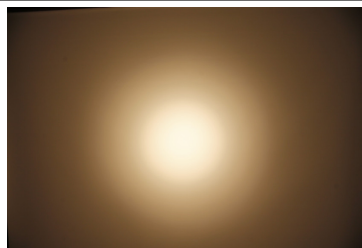
LED LUXEON CoB 1208
FWHM 11.0°
Efficiency 85 %
Peak intensity 9.900 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



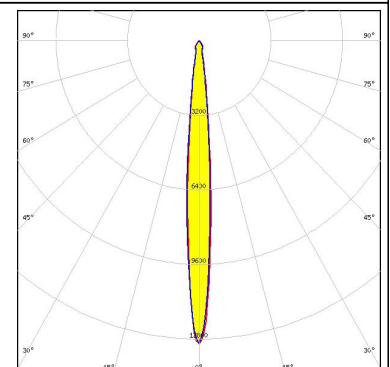
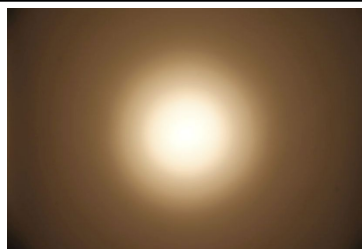
LED LUXEON CoB 1208
FWHM 12.0°
Efficiency 88 %
Peak intensity 8.600 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2204-CT + 50-2100AN



LED LUXEON CoB 1208
FWHM 12.0°
Efficiency 84 %
Peak intensity 8.000 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
IDEAL: 50-2100SH + 50-2100AN



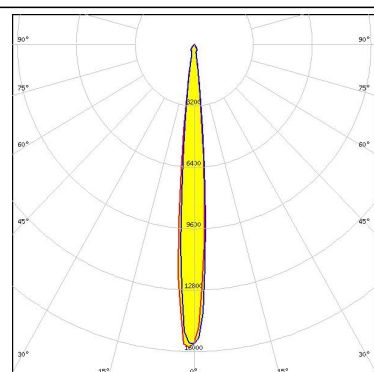
LED LUXEON CoB 1208
FWHM 9.0°
Efficiency 89 %
Peak intensity 13.000 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2100SH + 50-2100AN



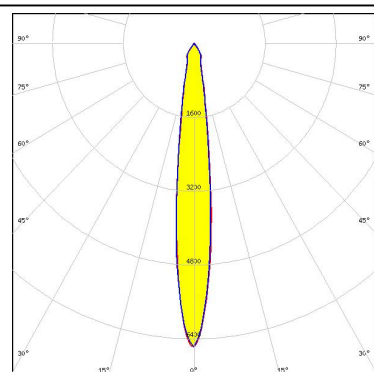
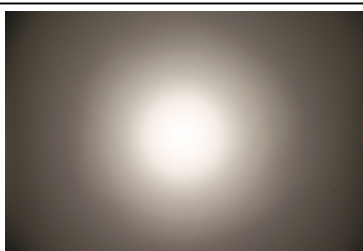
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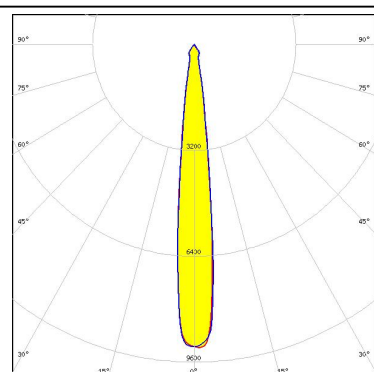
LED LUXEON CoB 1208
 FWHM 10.0°
 Efficiency 94 %
 Peak intensity 15.850 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



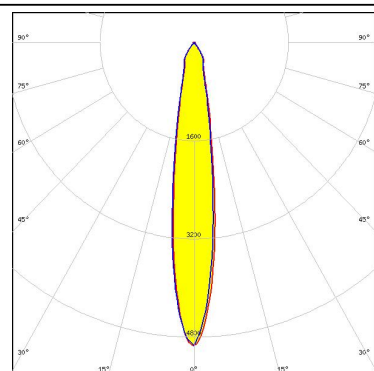
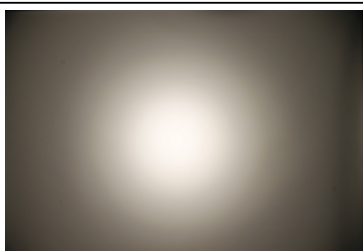
LED LUXEON CoB 1211
 FWHM 13.0°
 Efficiency 84 %
 Peak intensity 6.600 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGE-RZ-LENS
 IDEAL: 50-2204-CT + 50-2100AN



LED LUXEON CoB 1211
 FWHM 13.0°
 Efficiency 90 %
 Peak intensity 9.200 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13584_CLAMP-VERO29
 Bender Wirth: 431 Typ L3



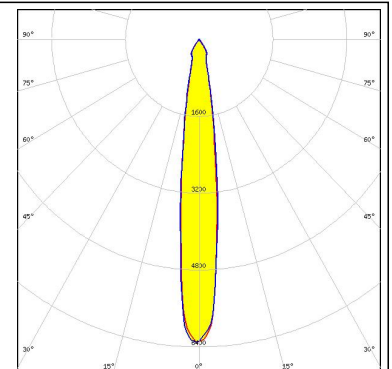
LED LUXEON CoB 1216/1812
 FWHM 16.0°
 Efficiency 84 %
 Peak intensity 4.900 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGE-RZ-LENS
 IDEAL: 50-2204-CT + 50-2100AN



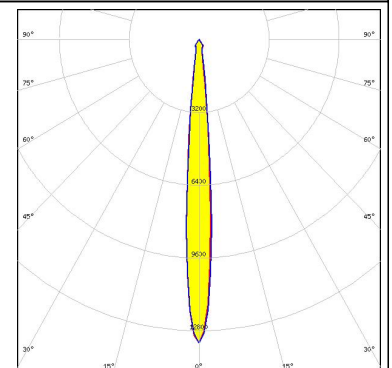
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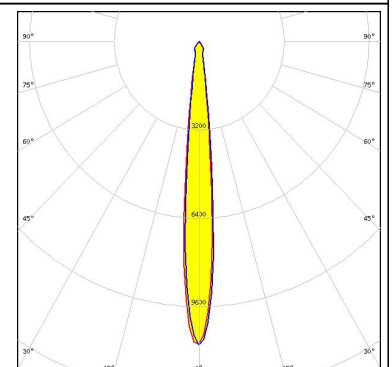
LED LUXEON CoB 1216/1812
 FWHM 14.0°
 Efficiency 88 %
 Peak intensity 6.300 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 IDEAL: 50-2204-CT + 50-2100AN



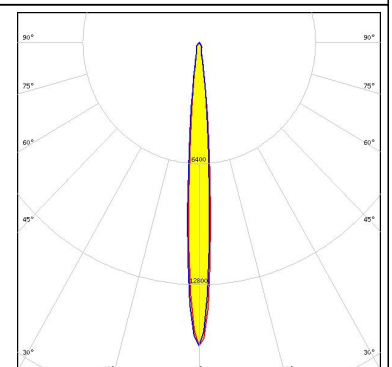
LED LUXEON K12
 FWHM 9.0°
 Efficiency 90 %
 Peak intensity 13.000 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGE-RZ-LENS
 TE: 2213134-2 + OPTIC CLIP Z50 TYPE1 2213194-1



LED LUXEON K16
 FWHM 10.0°
 Efficiency 90 %
 Peak intensity 11.000 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGE-RZ-LENS
 TE: 2213134-2 + OPTIC CLIP Z50 TYPE1 2213194-1



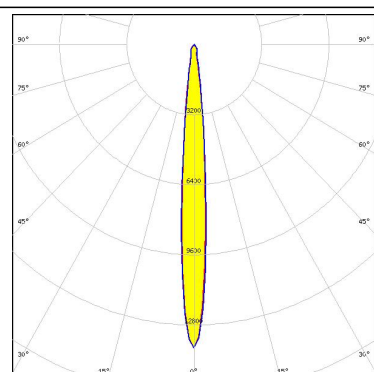
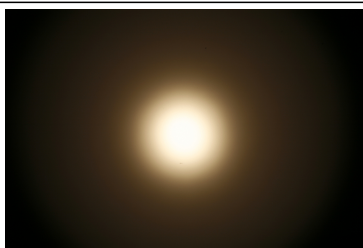
LED LUXEON S2000
 FWHM 9.0°
 Efficiency 87 %
 Peak intensity 16.000 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13395_CLAMP-S2000
 F13671_ANGE-RZ-LENS



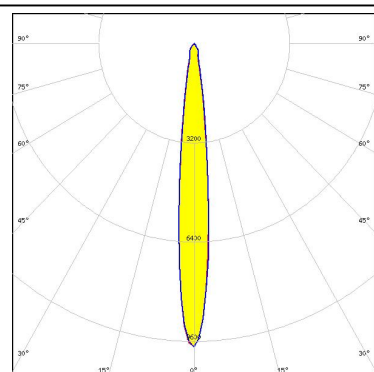
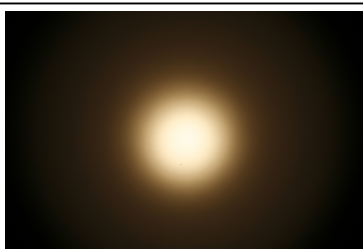
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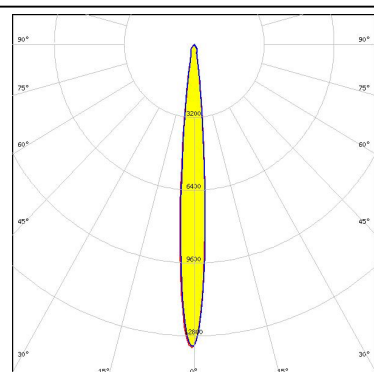
LED LUXEON S3000
FWHM 10.0°
Efficiency 87 %
Peak intensity 13.800 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13397_CLAMP-S3000
F13671_ANGE-RZ-LENS



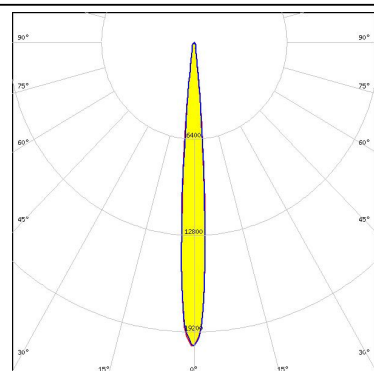
LED LUXEON S5000
FWHM 12.0°
Efficiency 86 %
Peak intensity 9.800 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13399_CLAMP-S5000
F13671_ANGE-RZ-LENS



LED CDM-14 (Dim-To-Warm)
FWHM 9.5°
Efficiency 87 %
Peak intensity 13.400 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
F13671_ANGE-RZ-LENS
Bender Wirth: 491 Typ L2



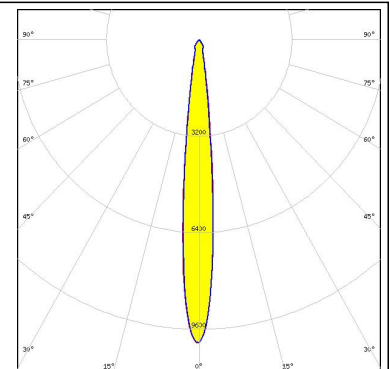
LED CDM-14 (Dim-To-Warm)
FWHM 8.6°
Efficiency 92 %
Peak intensity 20.300 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 491 Typ L2



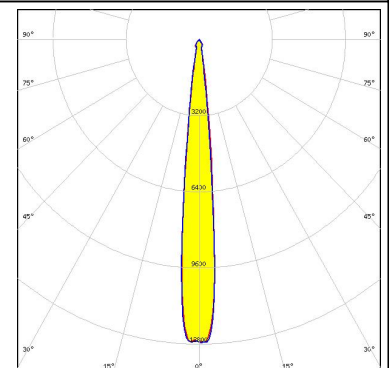
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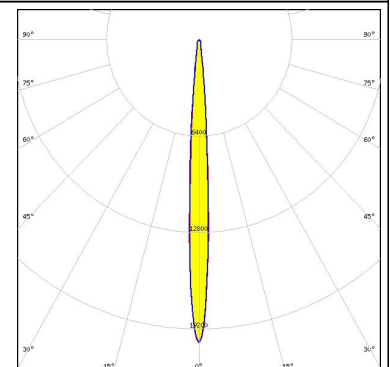
LED CDM-18 (Dim-To-Warm)
 FWHM 11.0°
 Efficiency 88 %
 Peak intensity 10.000 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13658_CLAMP-VERO13-18
 F13671_ANGE-RZ-LENS
 Bender Wirth: 491 Typ L2



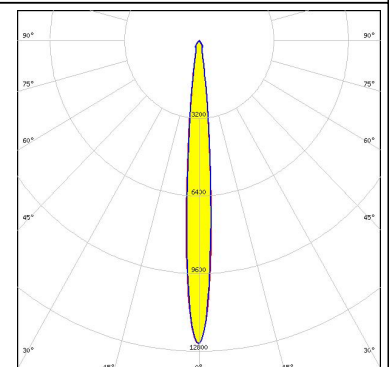
LED CDM-18 (Dim-To-Warm)
 FWHM 11.0°
 Efficiency 92 %
 Peak intensity 12.800 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 491 Typ L2



LED CDM-9 (Dim-To-Warm)
 FWHM 7.2°
 Efficiency 85 %
 Peak intensity 20.100 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13658_CLAMP-VERO13-18
 F13671_ANGE-RZ-LENS
 Bender Wirth: 490 Typ L1



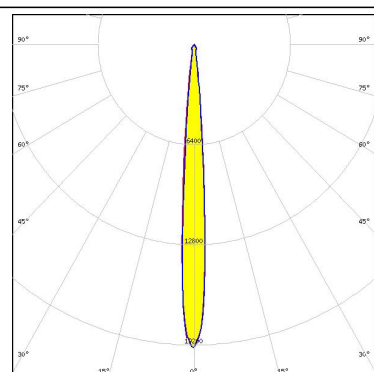
LED CTM-14 (Tunable White)
 FWHM 9.0°
 Efficiency 85 %
 Peak intensity 12.500 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13584_CLAMP-VERO29
 F13671_ANGE-RZ-LENS
 Bender Wirth: 442 Typ L3



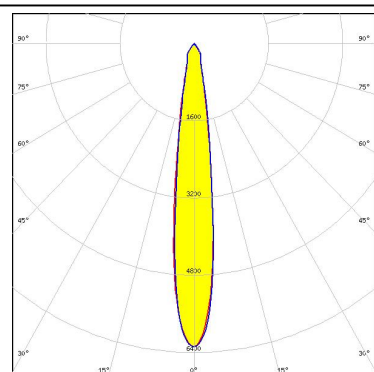
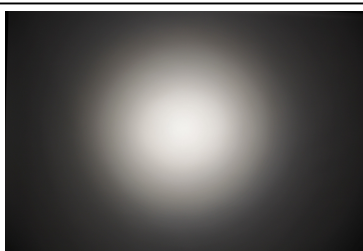
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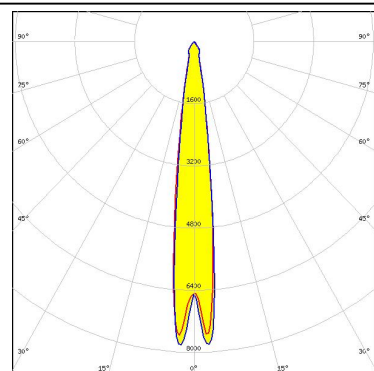
LED CTM-14 (Tunable White)
FWHM 8.0°
Efficiency 90 %
Peak intensity 19.600 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13584_CLAMP-VERO29
Bender Wirth: 442 Typ L3



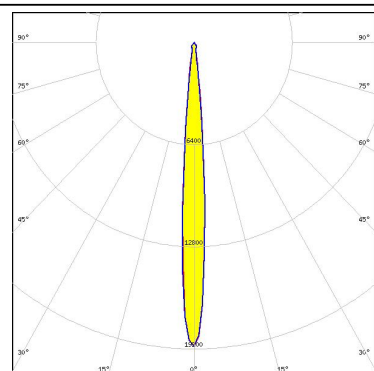
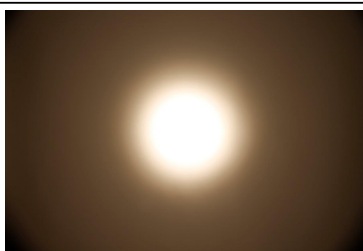
LED CTM-22 (Tunable White)
FWHM 15.0°
Efficiency 85 %
Peak intensity 6.300 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13584_CLAMP-VERO29
F13671_ANGE-RZ-LENS
Bender Wirth: 494 Typ L3



LED CTM-22 (Tunable White)
FWHM 14.0°
Efficiency 90 %
Peak intensity 7.860 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13584_CLAMP-VERO29
Bender Wirth: 494 Typ L3



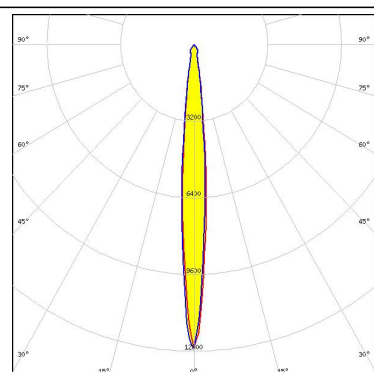
LED CxM-14 (19x19)
FWHM 9.0°
Efficiency 94 %
Peak intensity 19.000 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



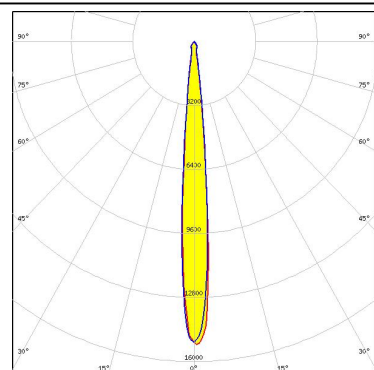
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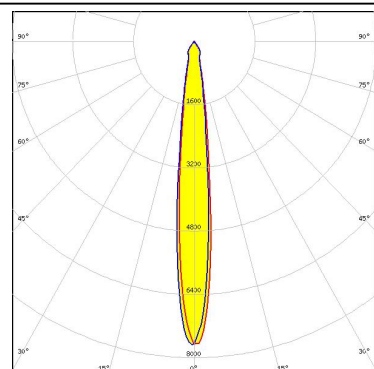
LED COB J-Type
FWHM 9.0°
Efficiency 91 %
Peak intensity 12.700 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2103NC + 50-2100AN



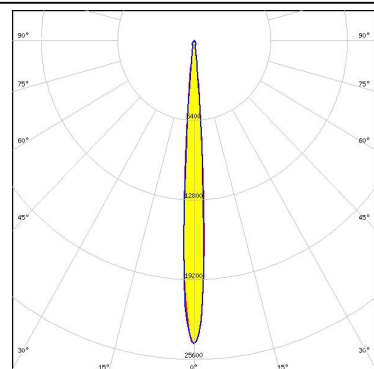
LED COB J-Type
FWHM 9.0°
Efficiency 89 %
Peak intensity 15.200 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 463 Typ L2



LED COB J-Type
FWHM 12.0°
Efficiency 86 %
Peak intensity 7.700 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
IDEAL: 50-2103NC + 50-2100AN



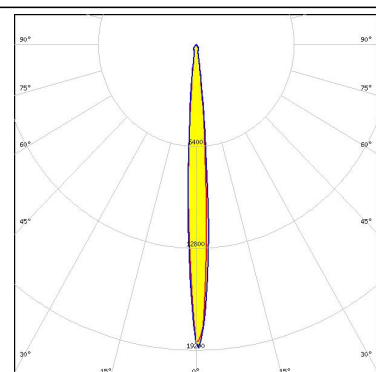
LED COB L-Type (LES 11)
FWHM 7.0°
Efficiency 89 %
Peak intensity 24.300 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 438 Typ L1



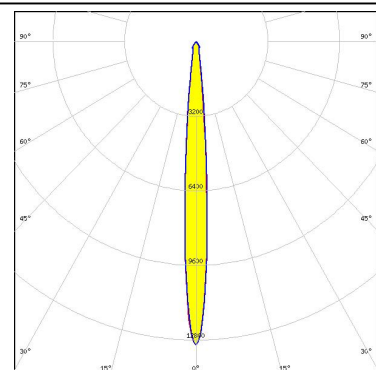
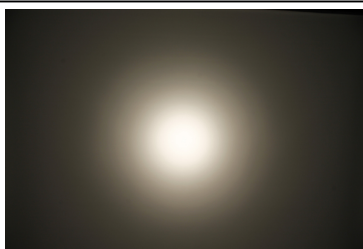
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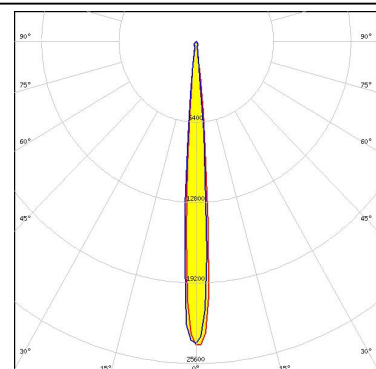
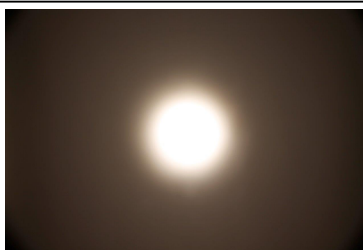
LED COB L-Type (LES 11)
 FWHM 8.0°
 Efficiency 88 %
 Peak intensity 19.000 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 IDEAL: 50-2100NC + 50-2100AN



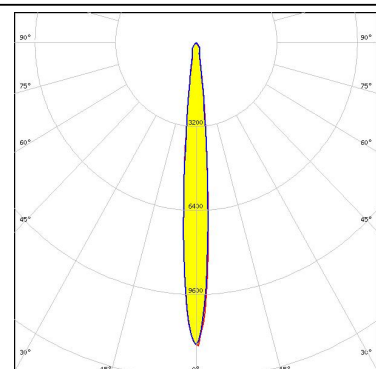
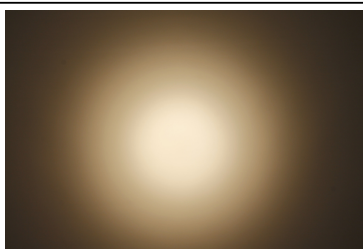
LED COB L-Type (LES 11)
 FWHM 9.0°
 Efficiency 84 %
 Peak intensity 13.000 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGE-RZ-LENS
 TE: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



LED COB L-Type (LES 11)
 FWHM 8.0°
 Efficiency 94 %
 Peak intensity 24.000 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 Molex: 180580-0005



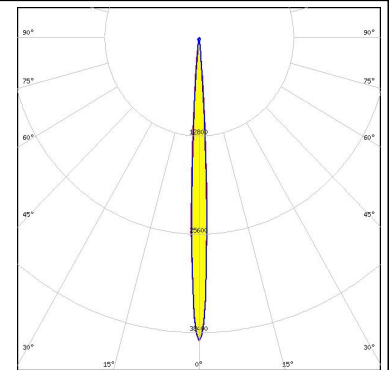
LED COB L-Type (LES 11)
 FWHM 9.0°
 Efficiency 84 %
 Peak intensity 12.000 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGE-RZ-LENS
 IDEAL: 50-2100NC + 50-2100AN



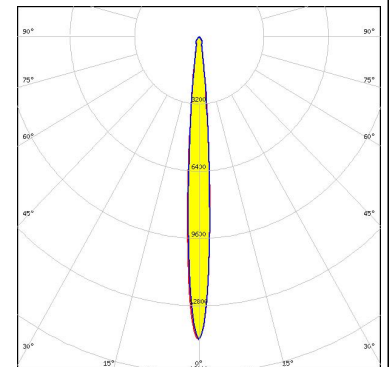
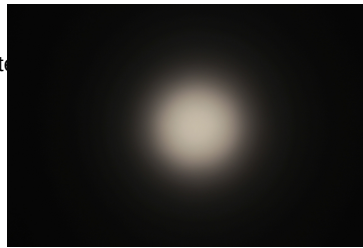
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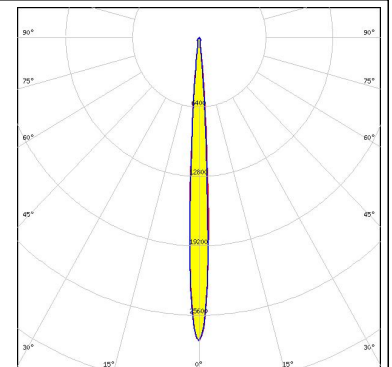
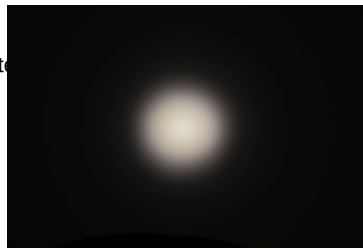
LED COB L-Type (LES 9)
FWHM 6.0°
Efficiency 93 %
Peak intensity 39.000 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 438 Typ L1



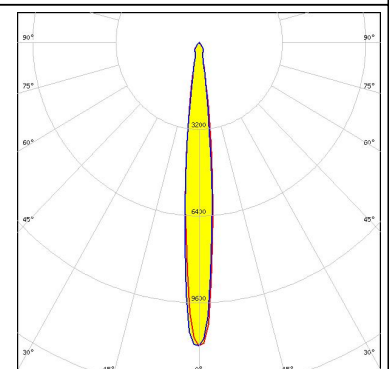
LED NVCWJ024Z-V1MT: COB J-Type Tunable White
FWHM 9.0°
Efficiency 86 %
Peak intensity 14.400 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
F13671_ANGE-RZ-LENS
Bender Wirth: 498 Typ L2



LED NVCWJ024Z-V1MT: COB J-Type Tunable White
FWHM 7.0°
Efficiency 91 %
Peak intensity 28.000 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 498 Typ L2



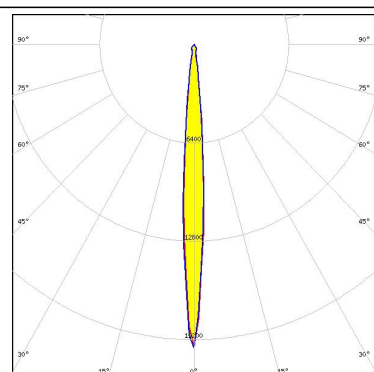
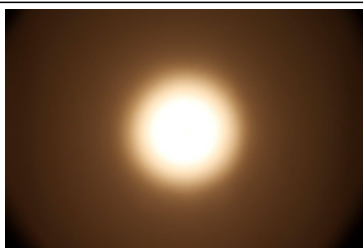
LED PrevaLED Core AC (LEP-2000)
FWHM 11.0°
Efficiency 92 %
Peak intensity 11.200 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1



PHOTOMETRIC DATA (MEASURED):

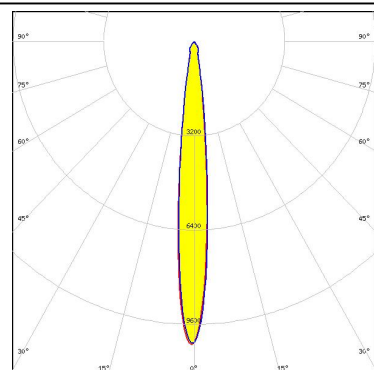
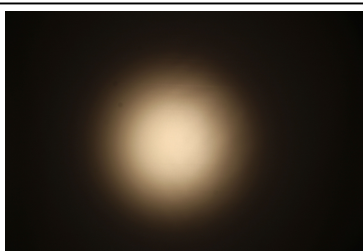
OSRAM

LED PrevaLED Core AC (LEP-800)
FWHM 8.0°
Efficiency 94 %
Peak intensity 19.800 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1



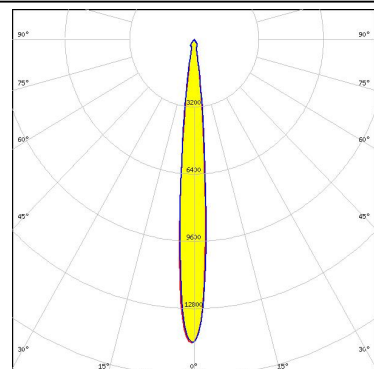
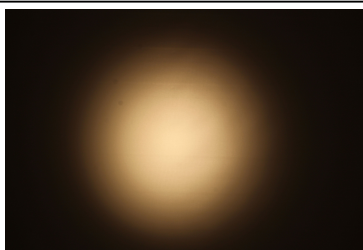
OSRAM

LED PrevaLED Core G7 L15 H1
FWHM 11.0°
Efficiency 89 %
Peak intensity 10.300 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C16685_CLAMP-PRV-A
F13671_ANGE-RZ-LENS



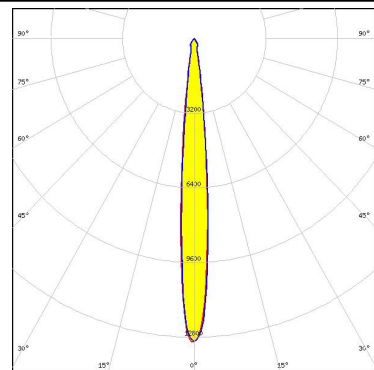
OSRAM

LED PrevaLED Core G7 L15 H1
FWHM 10.0°
Efficiency 93 %
Peak intensity 14.400 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C16685_CLAMP-PRV-A



OSRAM

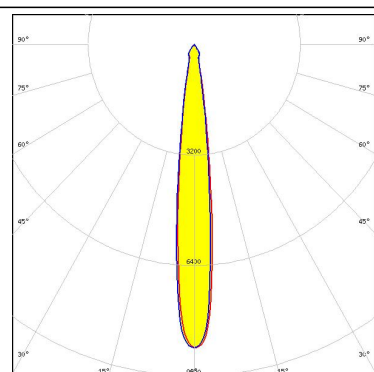
LED PrevaLED Core Z3 LES19
FWHM 10.0°
Efficiency 93 %
Peak intensity 13.000 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1



PHOTOMETRIC DATA (MEASURED):

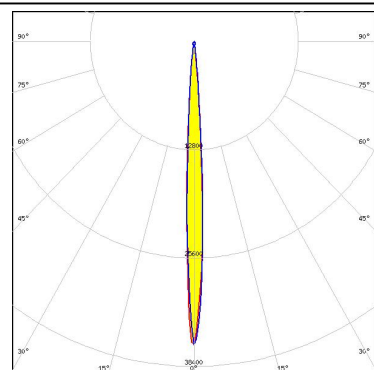
OSRAM

LED PrevaLED Core Z3 LES23
FWHM 13.0°
Efficiency 93 %
Peak intensity 8.790 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1



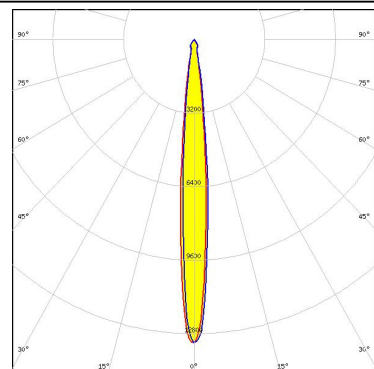
OSRAM

LED PrevaLED Core Z3 LES9
FWHM 6.0°
Efficiency 94 %
Peak intensity 36.000 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1



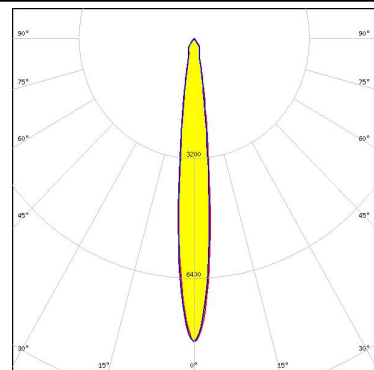
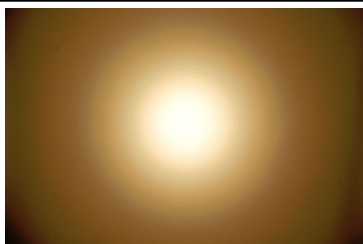
OSRAM

LED PrevaLED Core Z4 LES19
FWHM 10.0°
Efficiency 93 %
Peak intensity 13.300 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1



OSRAM

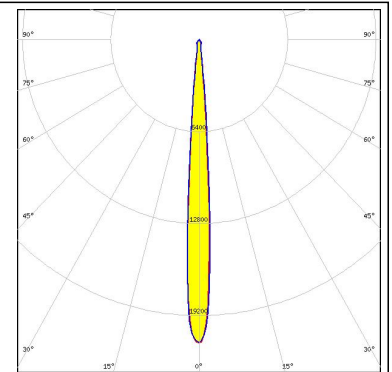
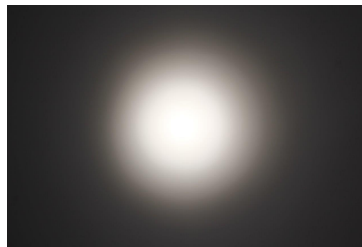
LED PrevaLED Core Z4 LES19
FWHM 12.0°
Efficiency 85 %
Peak intensity 8.100 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
TE: OPTIC CLIP Z50 TYPE1 2213194-1



PHOTOMETRIC DATA (MEASURED):

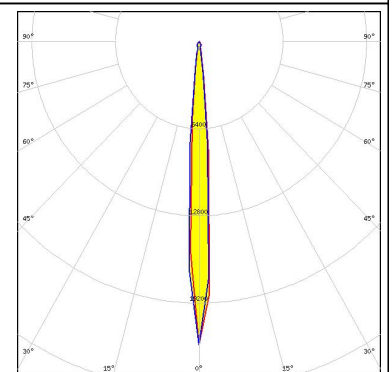
OSRAM Opto Semiconductors

LED Soleriq S13
FWHM 8.0°
Efficiency 89 %
Peak intensity 21.000 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 437 Typ L1



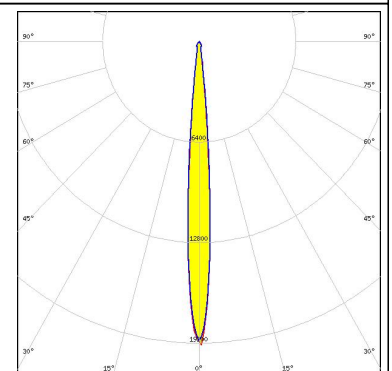
OSRAM Opto Semiconductors

LED Soleriq S13
FWHM 8.0°
Efficiency 94 %
Peak intensity 22.000 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1



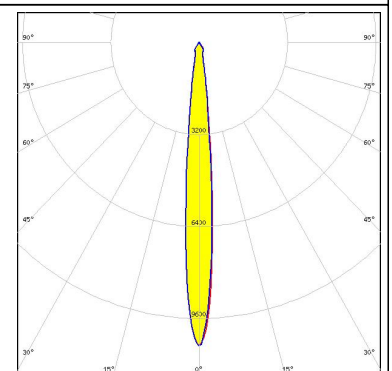
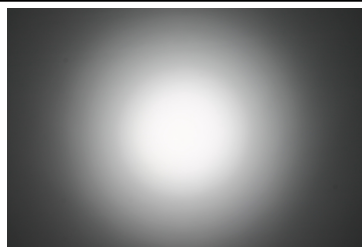
OSRAM Opto Semiconductors

LED Soleriq S13 19x19
FWHM 8.0°
Efficiency 90 %
Peak intensity 19.000 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



OSRAM Opto Semiconductors

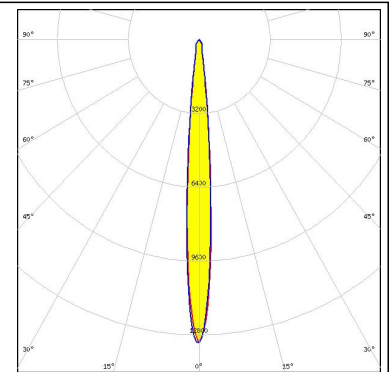
LED Soleriq S13 19x19
FWHM 10.0°
Efficiency 84 %
Peak intensity 11.000 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
IDEAL: 50-2103CT + 50-2100AN



PHOTOMETRIC DATA (MEASURED):

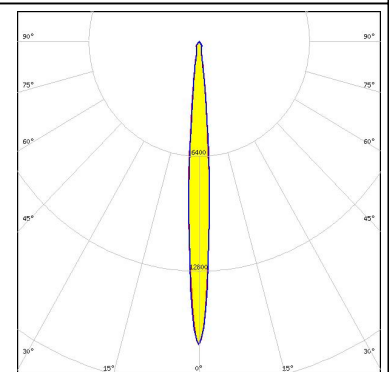
OSRAM
Opto Semiconductors

LED Soleriq S13 19x19
FWHM 9.0°
Efficiency 85 %
Peak intensity 13.000 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



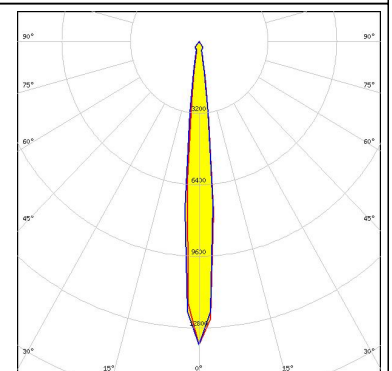
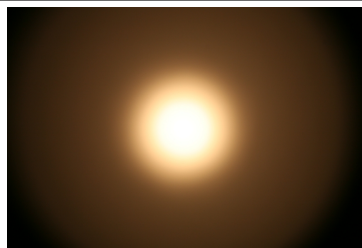
OSRAM
Opto Semiconductors

LED Soleriq S13 19x19
FWHM 8.0°
Efficiency 88 %
Peak intensity 16.900 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2103CT + 50-2100AN



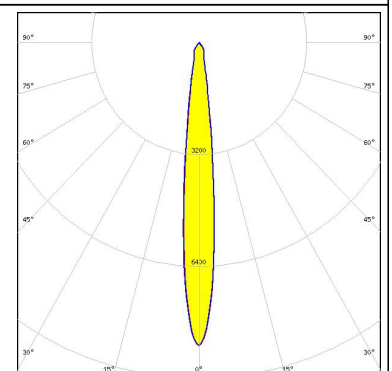
OSRAM
Opto Semiconductors

LED Soleriq S19
FWHM 10.0°
Efficiency 94 %
Peak intensity 13.500 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE: 2213407-2 + OPTIC CLIP Z50 TYPE1 2213194-1



OSRAM
Opto Semiconductors

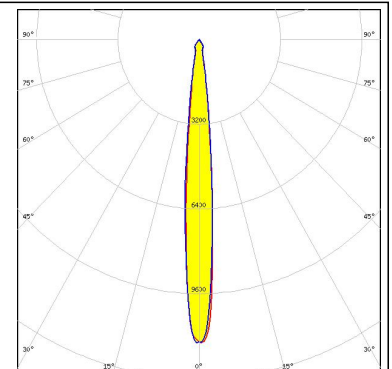
LED Soleriq S19
FWHM 12.0°
Efficiency 85 %
Peak intensity 8.700 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
TE: 2213407-2 + OPTIC CLIP Z50 TYPE1 2213194-1



PHOTOMETRIC DATA (MEASURED):

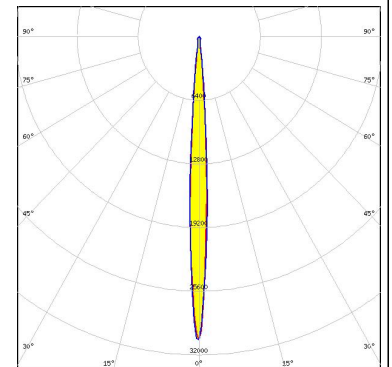
OSRAM
Opto Semiconductors

LED Soleriq S19
FWHM 11.0°
Efficiency 90 %
Peak intensity 11.500 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13584_CLAMP-VERO29
Bender Wirth: 462 Typ L3



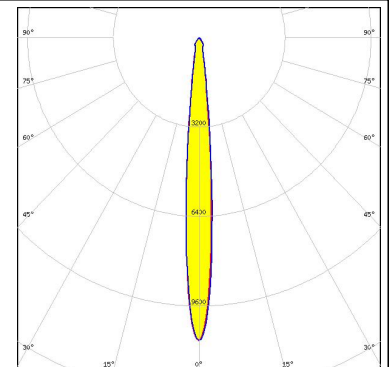
PHILIPS

LED Fortimo SLM L09 + SLM holder
FWHM 7.0°
Efficiency 91 %
Peak intensity 30.600 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1



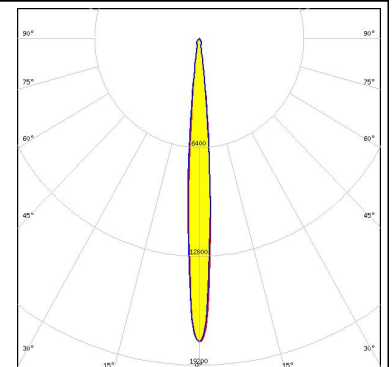
PHILIPS

LED Fortimo SLM L13 + SLM holder
FWHM 10.0°
Efficiency 84 %
Peak intensity 11.000 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
TE: OPTIC CLIP Z50 TYPE1 2213194-1



PHILIPS

LED Fortimo SLM L13 + SLM holder
FWHM 8.5°
Efficiency 91 %
Peak intensity 17.800 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1



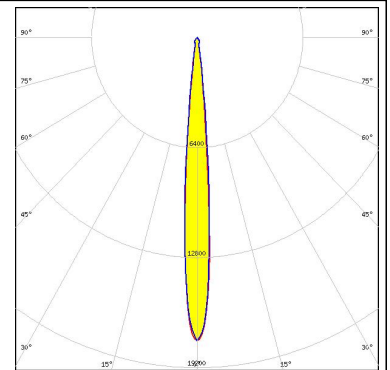
PHOTOMETRIC DATA (MEASURED):

PHILIPS

LED Fortimo SLM L13 CoB
FWHM 9.0°
Efficiency 92 %
Peak intensity 17.700 cd/lm
LEDs/each optic 1
Light colour White

Required components:

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



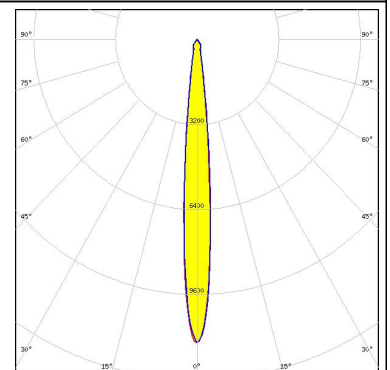
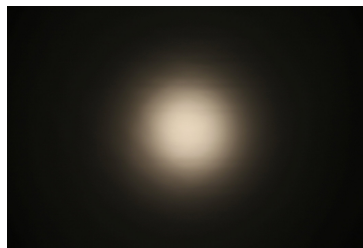
PHILIPS

LED Fortimo SLM L13 CoB
FWHM 10.0°
Efficiency 86 %
Peak intensity 11.500 cd/lm
LEDs/each optic 1
Light colour White

Required components:

F13671_ANGE-RZ-LENS

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

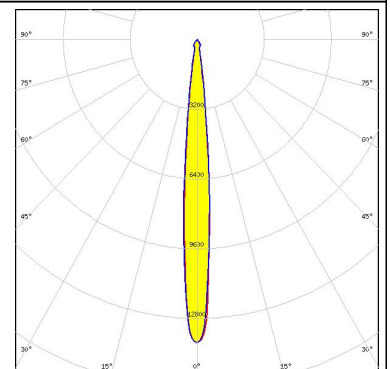
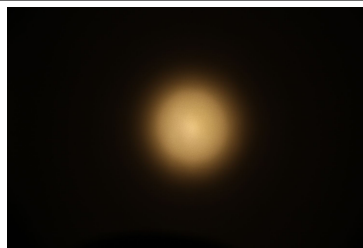


PHILIPS

LED Fortimo SLM L15 + SLM holder
FWHM 10.0°
Efficiency 89 %
Peak intensity 13.900 cd/lm
LEDs/each optic 1
Light colour White

Required components:

TE: OPTIC CLIP Z50 TYPE1 2213194-1



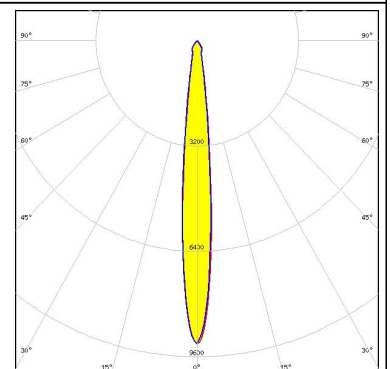
PHILIPS

LED Fortimo SLM L15 + SLM holder
FWHM 11.0°
Efficiency 84 %
Peak intensity 9.200 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):

PHILIPS

LED Fortimo SLM L15 CoB

FWHM 10.0°

Efficiency 92 %

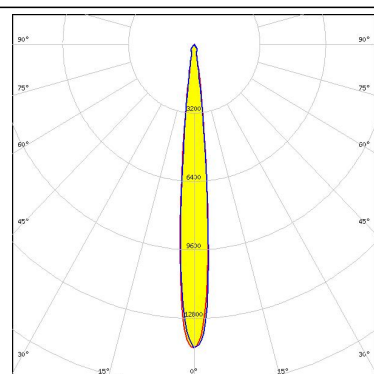
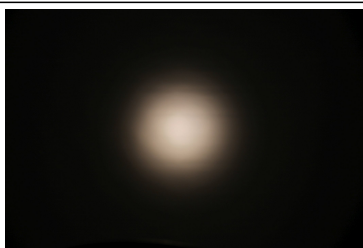
Peak intensity 14.200 cd/lm

LEDs/each optic 1

Light colour White

Required components:

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



PHILIPS

LED Fortimo SLM L15 CoB

FWHM 11.0°

Efficiency 86 %

Peak intensity 9.700 cd/lm

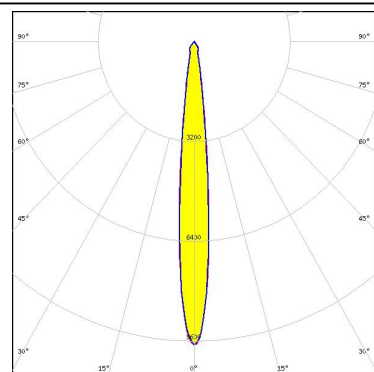
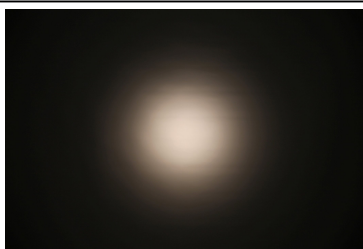
LEDs/each optic 1

Light colour White

Required components:

F13671_ANGE-RZ-LENS

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



PHILIPS

LED Fortimo SLM L19 + SLM holder

FWHM 13.0°

Efficiency 84 %

Peak intensity 6.800 cd/lm

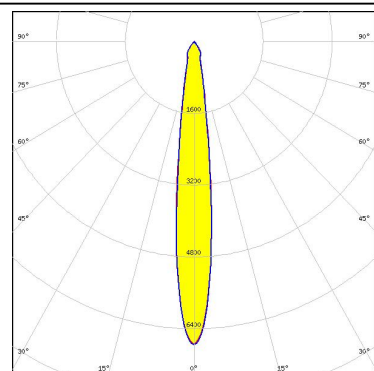
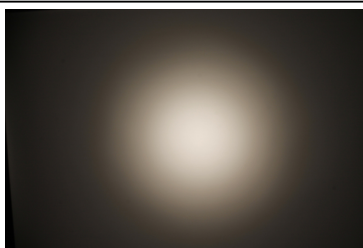
LEDs/each optic 1

Light colour White

Required components:

F13671_ANGE-RZ-LENS

TE: OPTIC CLIP Z50 TYPE1 2213194-1



PHILIPS

LED Fortimo SLM L19 + SLM holder

FWHM 13.0°

Efficiency 88 %

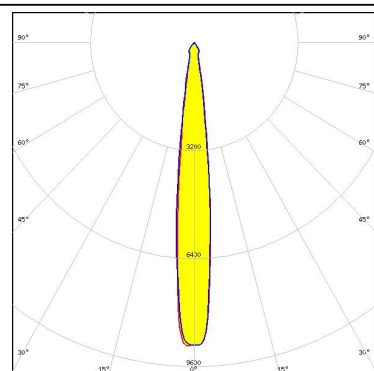
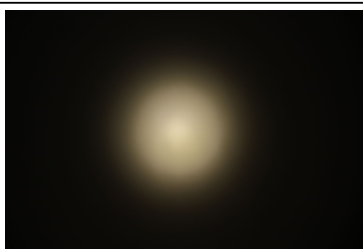
Peak intensity 9.000 cd/lm

LEDs/each optic 1

Light colour White

Required components:

TE: OPTIC CLIP Z50 TYPE1 2213194-1



PHOTOMETRIC DATA (MEASURED):

SAMSUNG

LED LC026B / 033B / 040B

FWHM 11.0°

Efficiency 93 %

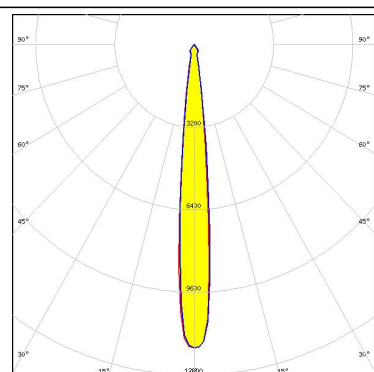
Peak intensity 11.750 cd/lm

LEDs/each optic 1

Light colour White

Required components:

TE: 2213258-2 + OPTIC CLIP Z50 TYPE1 2213194-1



SAMSUNG

LED LC026B / 033B / 040B

FWHM 11.0°

Efficiency 8 %

Peak intensity 10.700 cd/lm

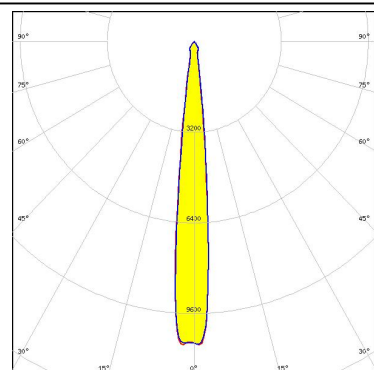
LEDs/each optic 1

Light colour White

Required components:

C13658_CLAMP-VERO13-18

Bender Wirth: 450 Typ L2



SAMSUNG

LED LC040C

FWHM 9.0°

Efficiency 85 %

Peak intensity 14.000 cd/lm

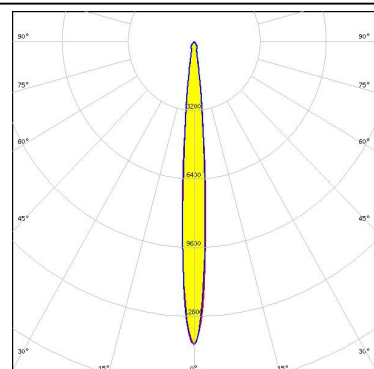
LEDs/each optic 1

Light colour White

Required components:

F13671_ANGE-RZ-LENS

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



SAMSUNG

LED LC040C

FWHM 7.0°

Efficiency 89 %

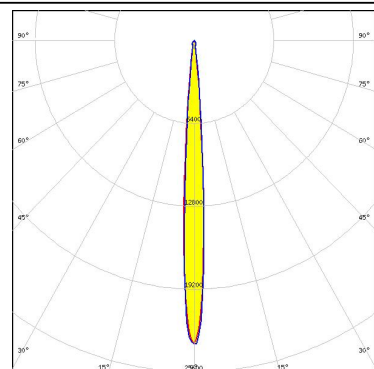
Peak intensity 23.000 cd/lm

LEDs/each optic 1

Light colour White

Required components:

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



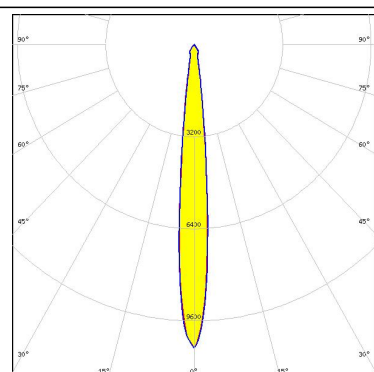
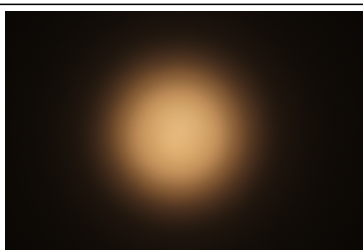
PHOTOMETRIC DATA (MEASURED):

SEOUL SEMICONDUCTOR LED AC Zhaga COB FWHM 10.0° Efficiency 84 % Peak intensity 10.100 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 10.0° Efficiency 88 % Peak intensity 12.600 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 14.0° Efficiency 88 % Peak intensity 6.600 cd/lm LEDs/each optic 1 Light colour White Required components: C13584_CLAMP-VERO29 Bender Wirth: 431 Typ L3		
TRIDONIC LED SLE G1 11mm 1000lm 927 Sunset R EXC FWHM 9.0° Efficiency 87 % Peak intensity 14.700 cd/lm LEDs/each optic 1 Light colour White Required components: F13671_ANGE-RZ-LENS TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1		

PHOTOMETRIC DATA (MEASURED):

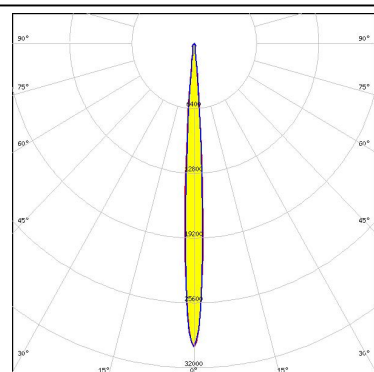
TRIDONIC

LED SLE G1 15mm 2000lm 927 Sunset R EXC
FWHM 11.0°
Efficiency 87 %
Peak intensity 10.500 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F13671_ANGE-RZ-LENS
TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



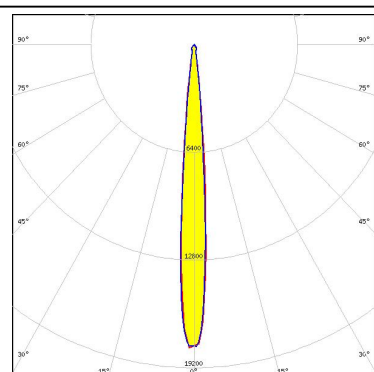
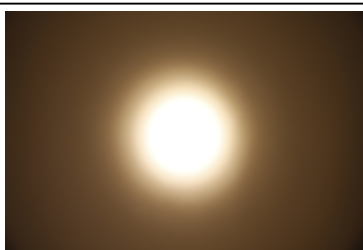
TRIDONIC

LED SLE G5 LES11
FWHM 7.0°
Efficiency 91 %
Peak intensity 30.100 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 434 Typ L1



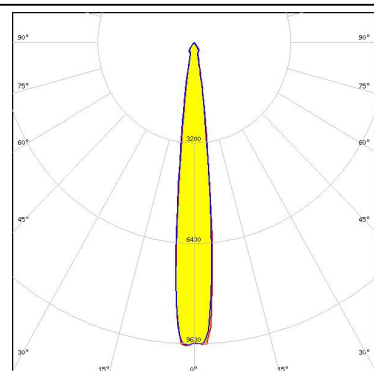
VS LIGHTING SOLUTIONS

LED WU-M-461
FWHM 9.0°
Efficiency 93 %
Peak intensity 18.000 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1



VS LIGHTING SOLUTIONS

LED WU-M-462
FWHM 13.0°
Efficiency 92 %
Peak intensity 9.680 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1



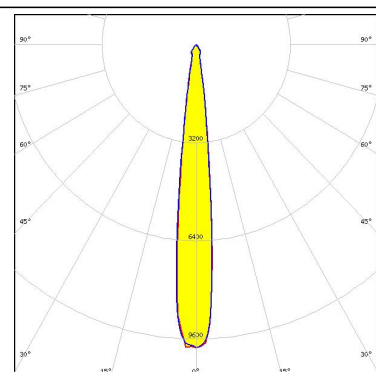
PHOTOMETRIC DATA (MEASURED):



LED WU-M-464
FWHM 12.0°
Efficiency 92 %
Peak intensity 9.910 cd/lm
LEDs/each optic 1
Light colour White

Required components:

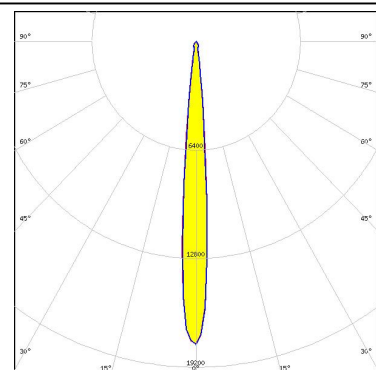
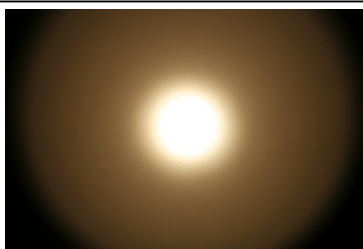
TE: OPTIC CLIP Z50 TYPE1 2213194-1



LED WU-M-484
FWHM 9.0°
Efficiency 93 %
Peak intensity 17.900 cd/lm
LEDs/each optic 1
Light colour White

Required components:

TE: OPTIC CLIP Z50 TYPE1 2213194-1

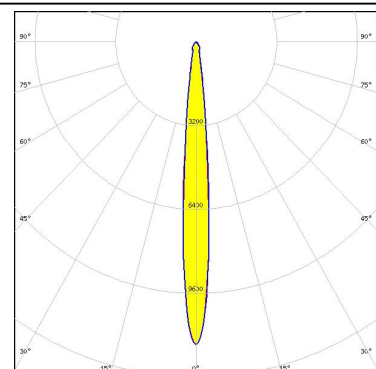
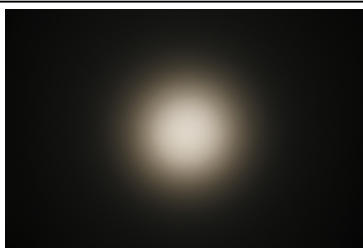


LED WU-M-484
FWHM 10.0°
Efficiency 84 %
Peak intensity 12.000 cd/lm
LEDs/each optic 1
Light colour White

Required components:

F13671_ANGE-RZ-LENS

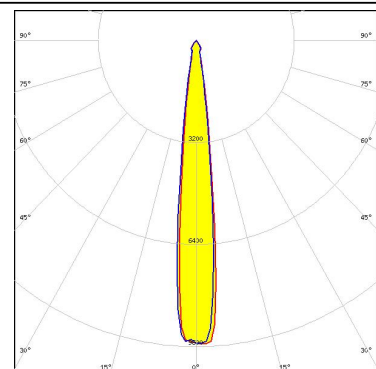
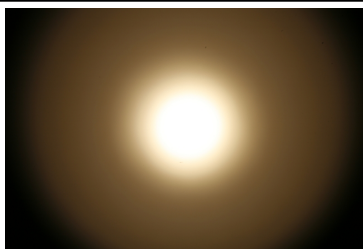
TE: OPTIC CLIP Z50 TYPE1 2213194-1



LED WU-M-485
FWHM 13.0°
Efficiency 93 %
Peak intensity 9.530 cd/lm
LEDs/each optic 1
Light colour White

Required components:

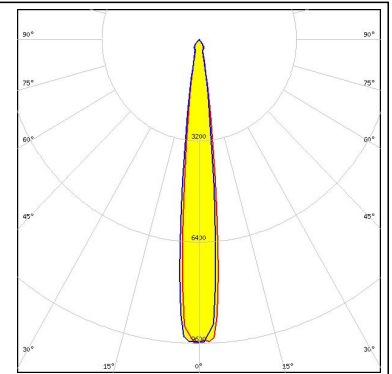
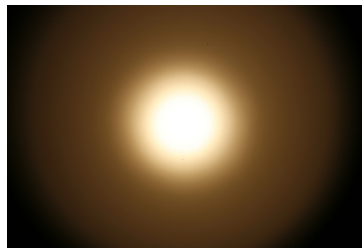
TE: OPTIC CLIP Z50 TYPE1 2213194-1



PHOTOMETRIC DATA (MEASURED):



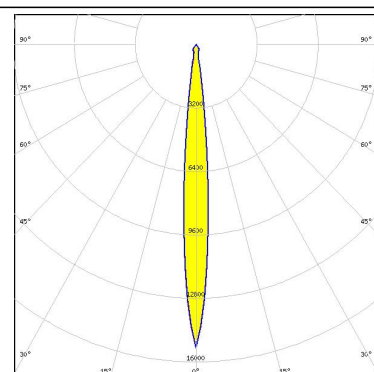
LED WU-M-486
FWHM 13.0°
Efficiency 93 %
Peak intensity 9.600 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1



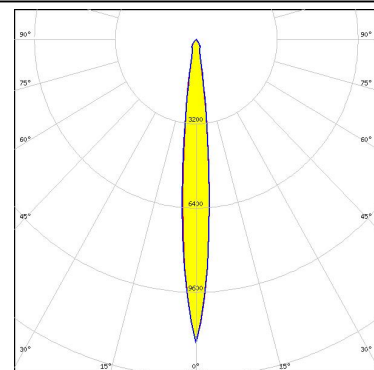
PHOTOMETRIC DATA (SIMULATED):



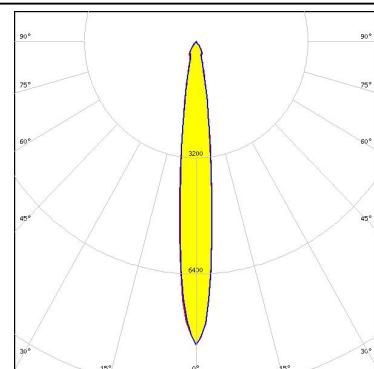
LED V10 Gen7
FWHM 10.0°
Efficiency 91 %
Peak intensity 15.300 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 434 Typ L1



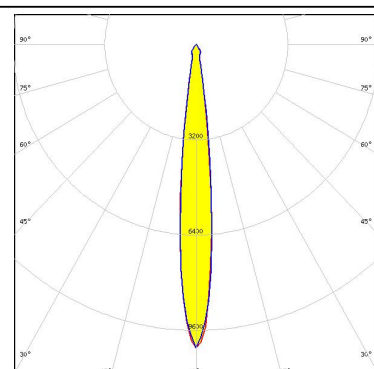
LED V13 Gen7
FWHM 11.0°
Efficiency 90 %
Peak intensity 11.520 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2103CT + 50-2100AN



LED V22 Gen7
FWHM 12.0°
Efficiency 93 %
Peak intensity 8.348 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2204-CT + 50-2100AN



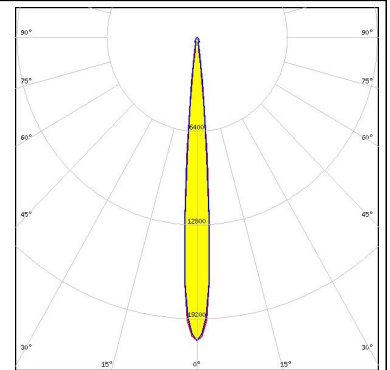
LED CXA/B 1830
FWHM 12.0°
Efficiency 88 %
Peak intensity 10.200 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1



PHOTOMETRIC DATA (SIMULATED):



LED LUXEON CoB 1204/1205
FWHM 10.0°
Efficiency 92 %
Peak intensity 20.700 cd/lm
LEDs/each optic 1
Light colour White
Required components:



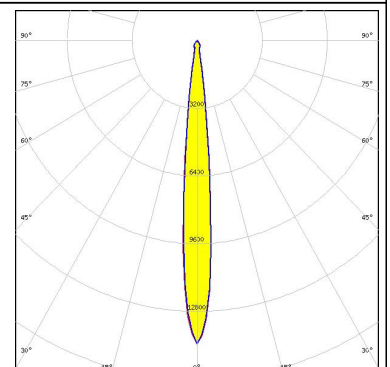
LED CxM-14 (19x19)
FWHM 10.0°
Efficiency 88 %
Peak intensity 15.000 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 486 Typ L1



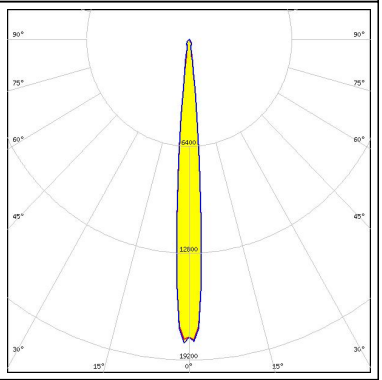
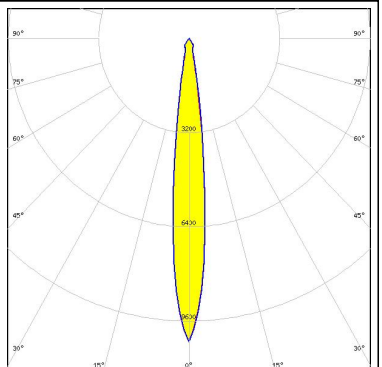
LED CxM-9 (13.5x13.5)
FWHM 6.0°
Efficiency 90 %
Peak intensity 34.100 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 434 Typ L1



LED Soleriq S15
FWHM 10.0°
Efficiency 90 %
Peak intensity 14.300 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



PHOTOMETRIC DATA (SIMULATED):

SEOUL SEMICONDUCTOR LED ZC12/18 FWHM 10.0° Efficiency 88 % Peak intensity 15.000 cd/lm LEDs/each optic 1 Light colour White Required components: C13658_CLAMP-VERO13-18 Bender Wirth: 433 Typ L1	SEOUL SEMICONDUCTOR LED ZC4/6 FWHM 6.0° Efficiency 90 % Peak intensity 34.100 cd/lm LEDs/each optic 1 Light colour White Required components: C13658_CLAMP-VERO13-18 Bender Wirth: 434 Typ L1
TRIDONIC LED SLE G6 LES15 FWHM 8.9° Efficiency 89 % Peak intensity 18.300 cd/lm LEDs/each optic 1 Light colour White Required components: TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1	
TRIDONIC LED SLE G6 LES17 FWHM 13.0° Efficiency 91 % Peak intensity 10.310 cd/lm LEDs/each optic 1 Light colour White Required components: TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1	

GENERAL INFORMATION:

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

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

MATERIALS:

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

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