

ANGELETTE-WAS

Asymmetric wall-washer beam

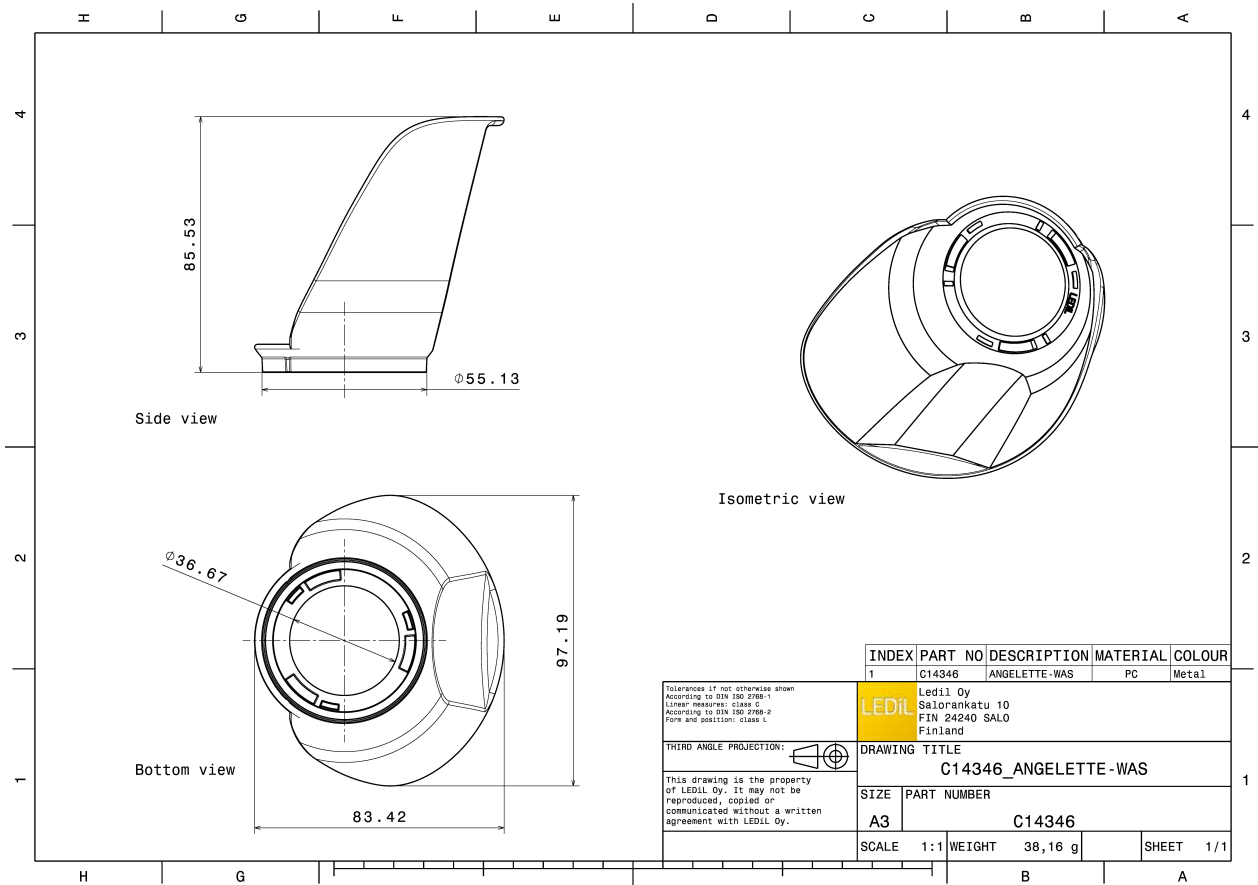
TECHNICAL SPECIFICATIONS:

Dimensions	Ø 97.2 x 83.4 mm
Height	84.1 mm
Fastening	socket
Colour	metal
Box size	480 x 280 x 300 mm
Box weight	5.4 kg
Quantity in Box	90 pcs
ROHS compliant	yes ⓘ



MATERIAL SPECIFICATIONS:

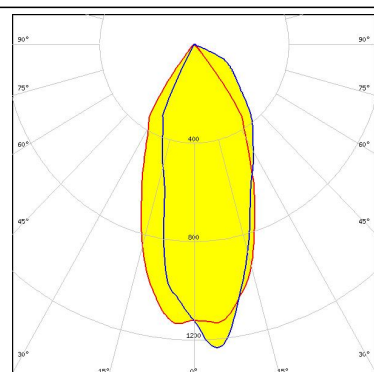
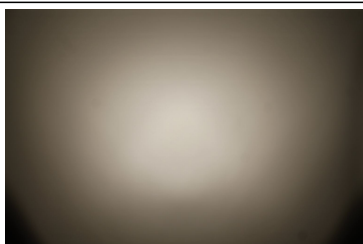
Component	Type	Material	Colour	Coating
ANGELETTE-WAS	Reflector	PC	metal	lacquer



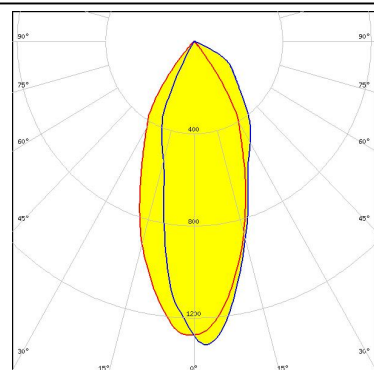
PHOTOMETRIC DATA (MEASURED):



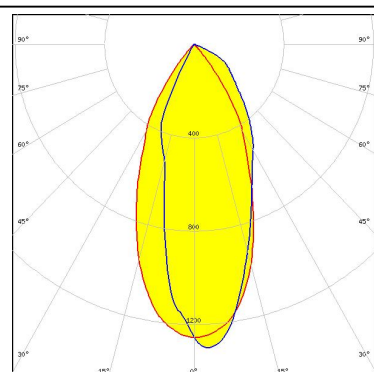
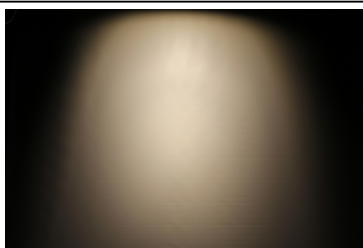
LED V10 Gen7
 FWHM Asymmetric
 Efficiency 90 %
 Peak intensity 1.200 cd/lm
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 434 Typ L1



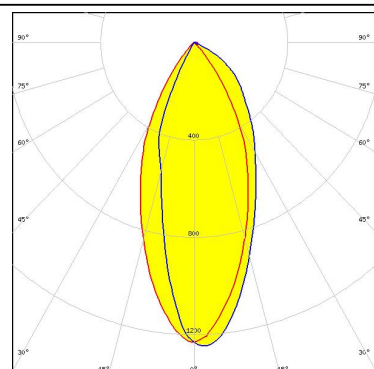
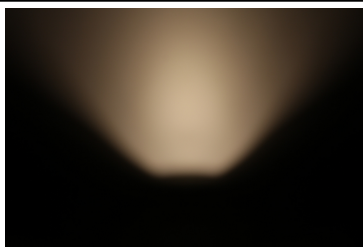
LED V13 Gen7
 FWHM Asymmetric
 Efficiency 91 %
 Peak intensity 1.300 cd/lm
 Required components:
 TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



LED V15 Gen6
 FWHM Asymmetric
 Efficiency 93 %
 Peak intensity 1.300 cd/lm
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 456 Typ L2



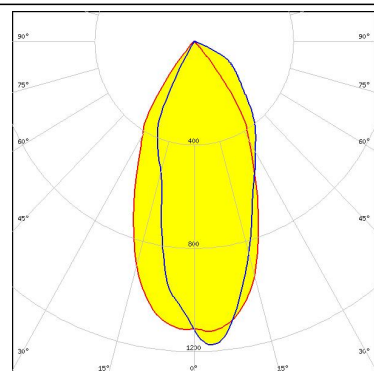
LED V22 Gen6
 FWHM Asymmetric
 Efficiency 88 %
 Peak intensity 1.200 cd/lm
 Required components:
 IDEAL: 50-2204-CT + 50-2100AN



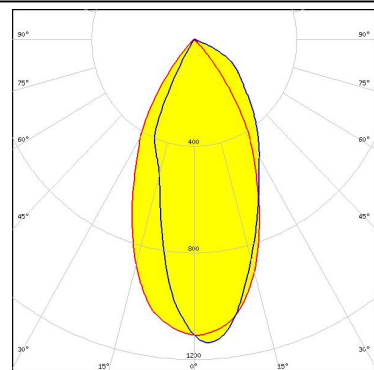
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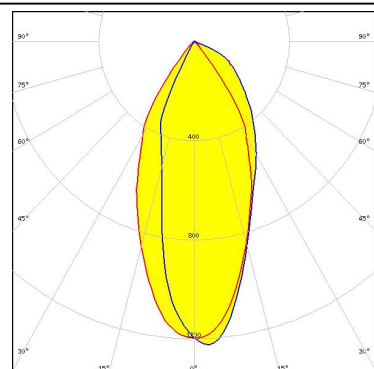
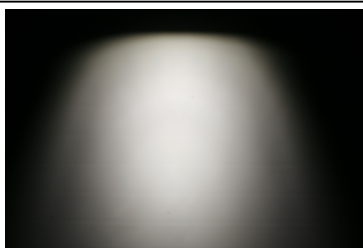
LED Vero SE 13
FWHM Asymmetric
Efficiency 91 %
Peak intensity 1.200 cd/lm
Required components:
C16402_CLAMP-VEROSE-13-18



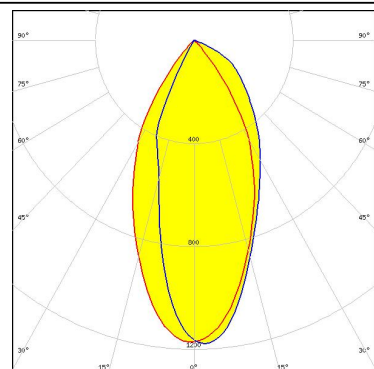
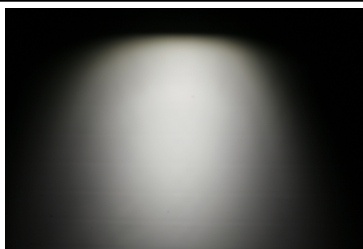
LED Vero SE 18
FWHM Asymmetric
Efficiency 91 %
Peak intensity 1.100 cd/lm
Required components:
C16402_CLAMP-VEROSE-13-18



LED VERO13
FWHM Asymmetric
Efficiency 92 %
Peak intensity 1.200 cd/lm
Required components:
C13658_CLAMP-VERO13-18



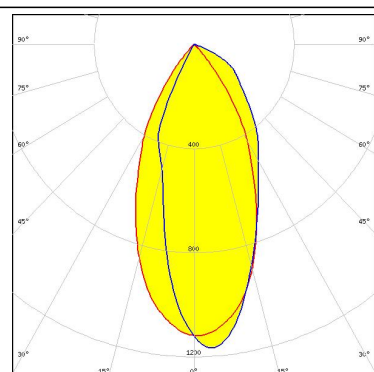
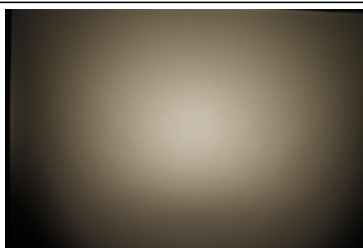
LED VERO18
FWHM Asymmetric
Efficiency 94 %
Peak intensity 1.200 cd/lm
Required components:
C13658_CLAMP-VERO13-18



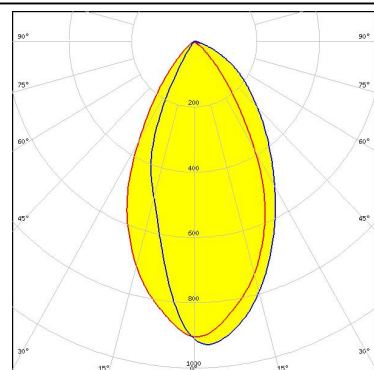
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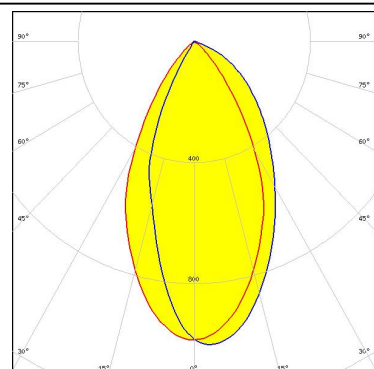
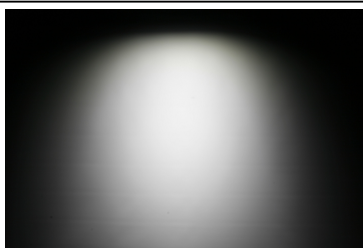
LED VERO18
FWHM Asymmetric
Efficiency 90 %
Peak intensity 1.200 cd/lm
Required components:
C13658_CLAMP-VERO13-18



LED VERO29
FWHM Asymmetric
Efficiency 85 %
Peak intensity 0.930 cd/lm
Required components:
C13584_CLAMP-VERO29
F13671_ANGE-RZ-LENS

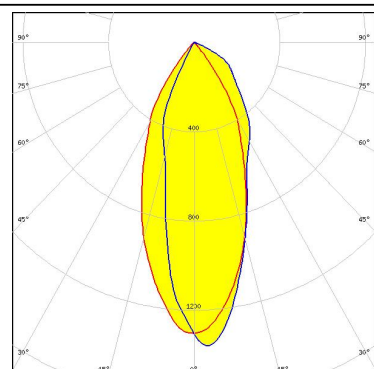
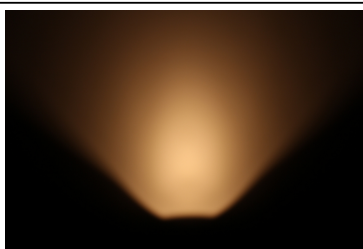


LED VERO29
FWHM Asymmetric
Efficiency 92 %
Peak intensity 1.000 cd/lm
Required components:
C13584_CLAMP-VERO29



CITIZEN

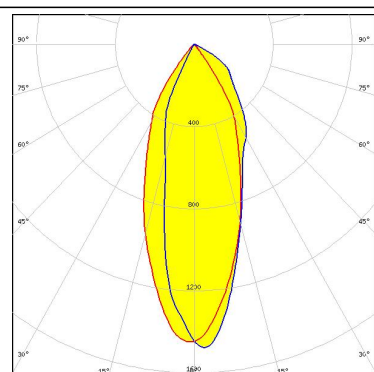
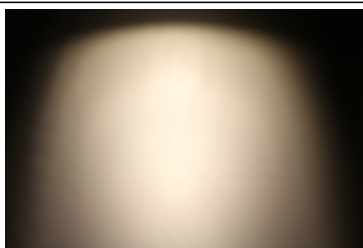
LED CLL03x/CLU03x
FWHM Asymmetric
Efficiency 91 %
Peak intensity 1.400 cd/lm
Required components:
TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



PHOTOMETRIC DATA (MEASURED):

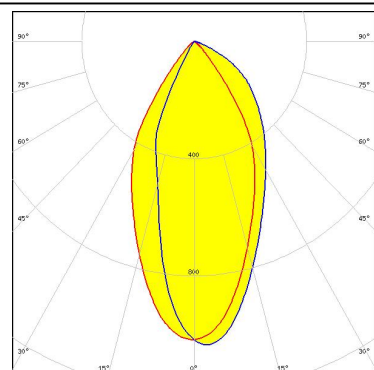
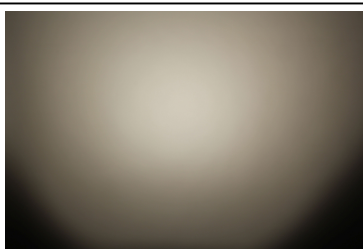
CITIZEN

LED CLL03x/CLU03x
 FWHM Asymmetric
 Efficiency 92 %
 Peak intensity 1.500 cd/lm
 Required components:
 IDEAL: 50-2103CT + 50-2100AN



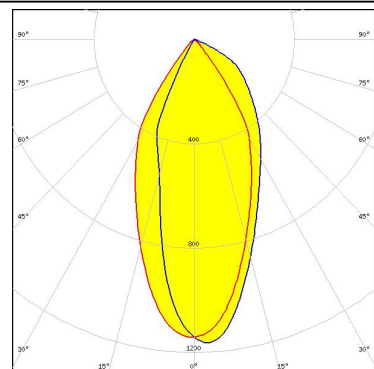
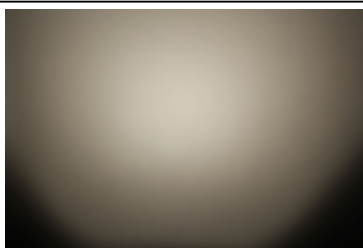
CITIZEN

LED CLL03x/CLU03x
 FWHM Asymmetric
 Efficiency 89 %
 Peak intensity 1.000 cd/lm
 Required components:
 C16791_CLAMP-Z45-A
 F13671_ANGE-RZ-LENS
 TE: 2325807-3



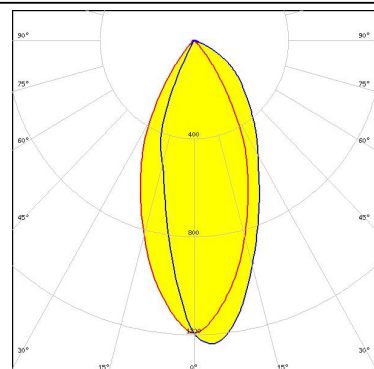
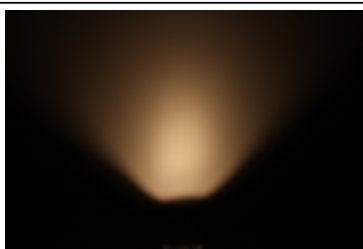
CITIZEN

LED CLL03x/CLU03x
 FWHM Asymmetric
 Efficiency 93 %
 Peak intensity 1.200 cd/lm
 Required components:
 C16791_CLAMP-Z45-A
 TE: 2325807-3



CITIZEN

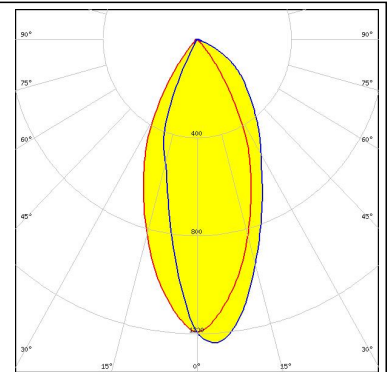
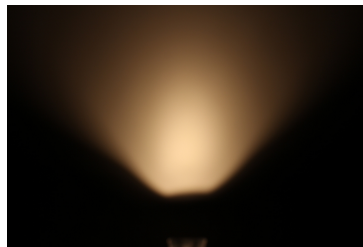
LED CLL04x/CLU04x
 FWHM Asymmetric
 Efficiency 88 %
 Peak intensity 1.200 cd/lm
 Required components:
 IDEAL: 50-2204-CT + 50-2100AN



PHOTOMETRIC DATA (MEASURED):

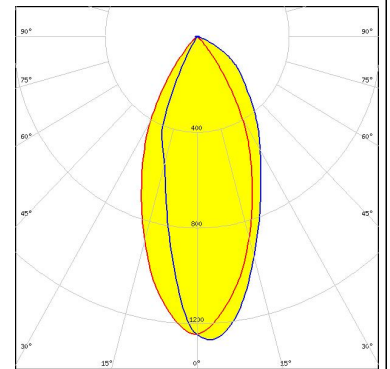
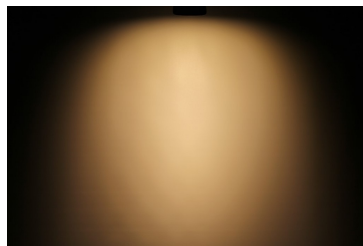
CITIZEN

LED CLL04x/CLU04x
 FWHM Asymmetric
 Efficiency 88 %
 Peak intensity 1.200 cd/lm
 Required components:
 IDEAL: 50-2204-CT + 50-2100AN



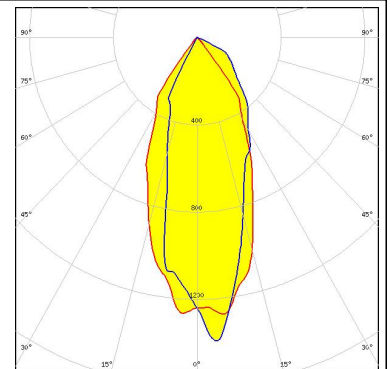
CITIZEN

LED CLL04x/CLU04x
 FWHM Asymmetric
 Efficiency 91 %
 Peak intensity 1.300 cd/lm
 Required components:
 C13584_CLAMP-VERO29
 Bender Wirth: 431 Typ L3



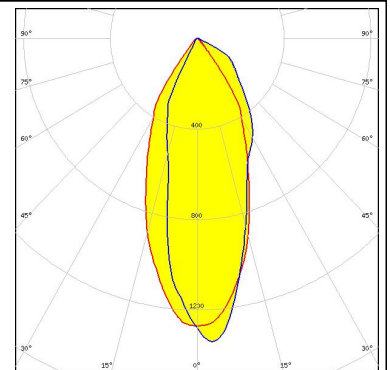
CITIZEN

LED CLU700/701
 FWHM Asymmetric
 Efficiency 92 %
 Peak intensity 1.400 cd/lm
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 434 Typ L1



CITIZEN

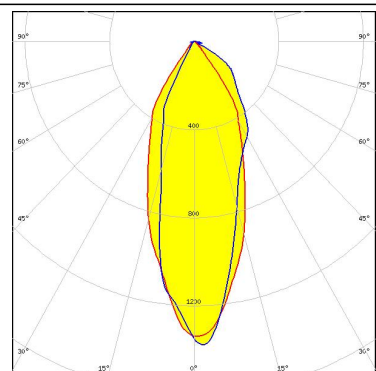
LED CLU720/721
 FWHM Asymmetric
 Efficiency 93 %
 Peak intensity 1.300 cd/lm
 Required components:
 TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



PHOTOMETRIC DATA (MEASURED):

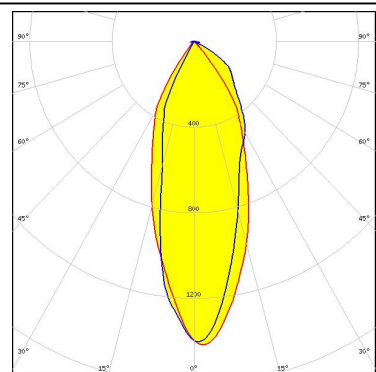
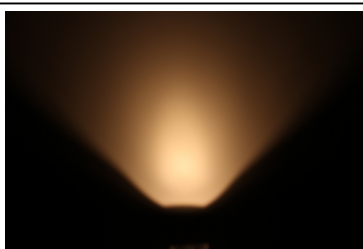
CITIZEN

LED CLU720/721
 FWHM Asymmetric
 Efficiency 92 %
 Peak intensity 1.400 cd/lm
 Required components:
 IDEAL: 50-2103CT + 50-2100AN



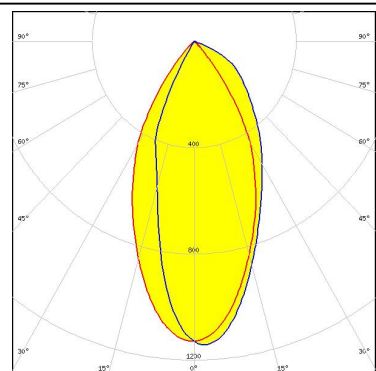
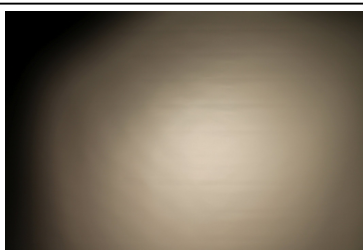
CITIZEN

LED CLU730/731
 FWHM Asymmetric
 Efficiency 88 %
 Peak intensity 1.400 cd/lm
 Required components:
 IDEAL: 50-2204-CT + 50-2100AN



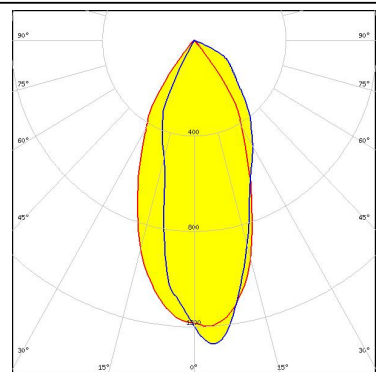
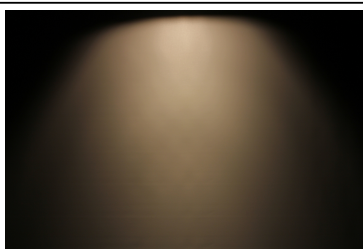
CREE

LED CMA2550
 FWHM Asymmetric
 Efficiency 93 %
 Peak intensity 1.100 cd/lm
 Required components:
 C14036_CLAMP_CXA25-30



CREE

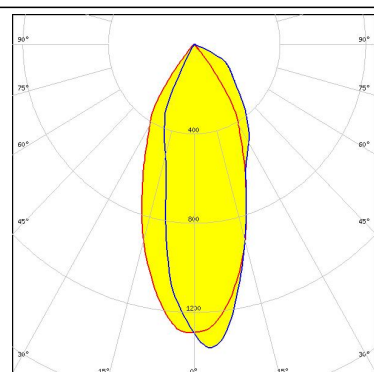
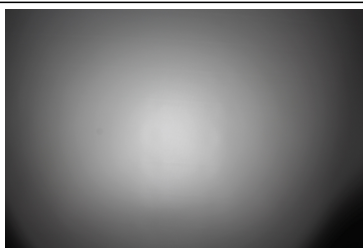
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
 FWHM Asymmetric
 Efficiency 91 %
 Peak intensity 1.300 cd/lm
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 437 Typ L1



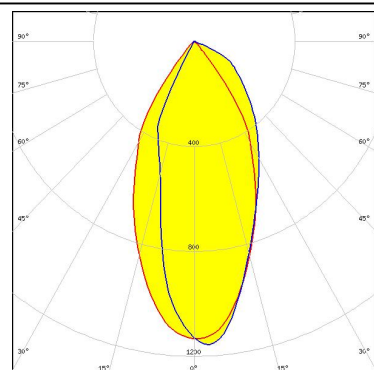
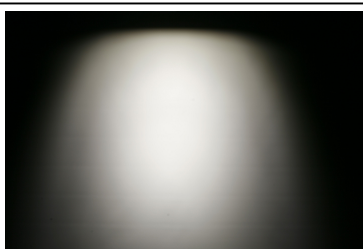
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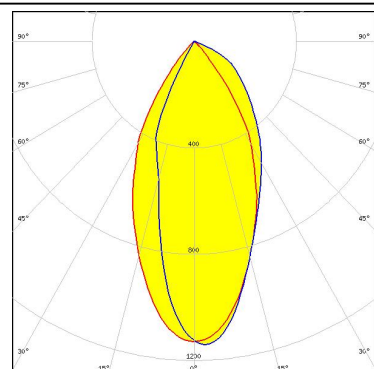
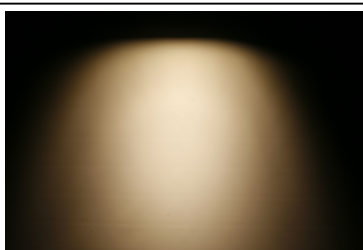
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
 FWHM Asymmetric
 Efficiency 91 %
 Peak intensity 1.400 cd/lm
 Required components:
 TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



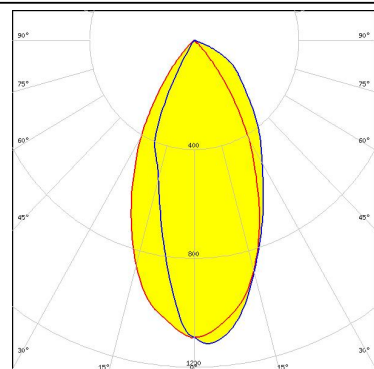
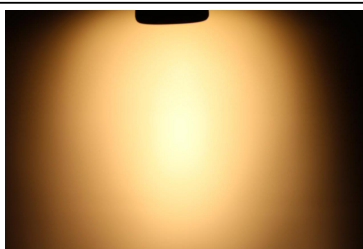
LED CXA/B 1830
 FWHM Asymmetric
 Efficiency 92 %
 Peak intensity 1.160 cd/lm
 Required components:
 C14123_CLAMP-CXA15-18



LED CXA/B 25xx
 FWHM Asymmetric
 Efficiency 92 %
 Peak intensity 1.100 cd/lm
 Required components:
 C14036_CLAMP_CXA25-30



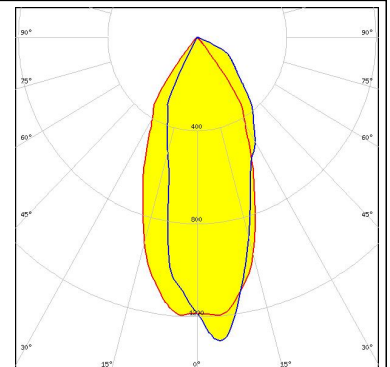
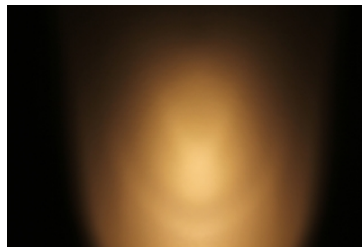
LED CXA/B 30xx
 FWHM Asymmetric
 Efficiency 91 %
 Peak intensity 1.100 cd/lm
 Required components:
 C14036_CLAMP_CXA25-30



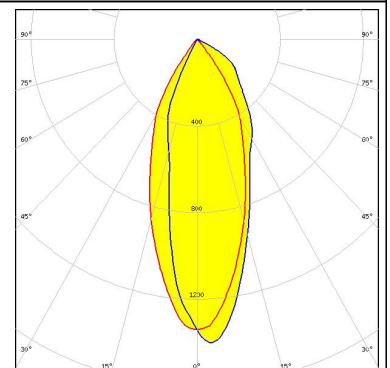
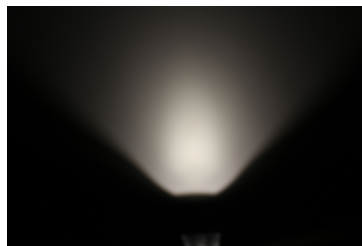
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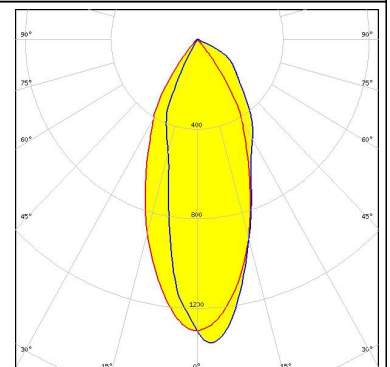
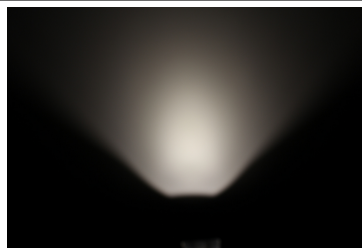
LED LUXEON CoB 1202/1203
FWHM Asymmetric
Efficiency 92 %
Peak intensity 1.300 cd/lm
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 438 Typ L1



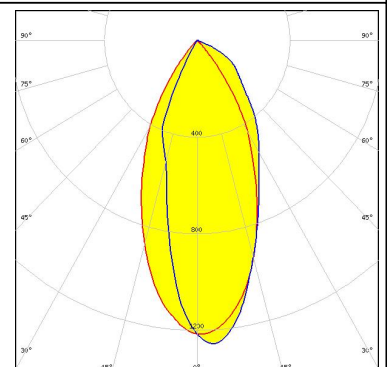
LED LUXEON CoB 1208
FWHM Asymmetric
Efficiency 89 %
Peak intensity 1.400 cd/lm
Required components:
IDEAL: 50-2100SH + 50-2100AN



LED LUXEON CoB 1208
FWHM Asymmetric
Efficiency 91 %
Peak intensity 1.400 cd/lm
Required components:
TE: 2213130-2



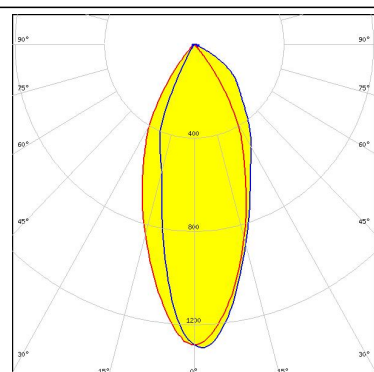
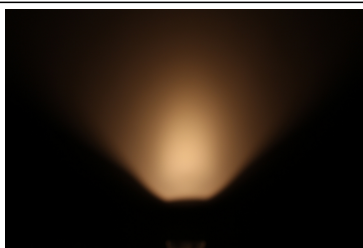
LED LUXEON CoB 1211
FWHM Asymmetric
Efficiency 92 %
Peak intensity 1.300 cd/lm
Required components:
C13584_CLAMP-VERO29
Bender Wirth: 431 Typ L3



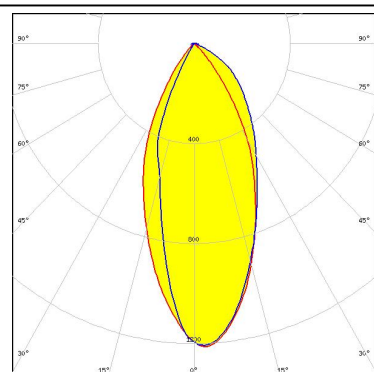
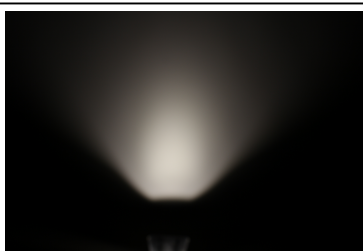
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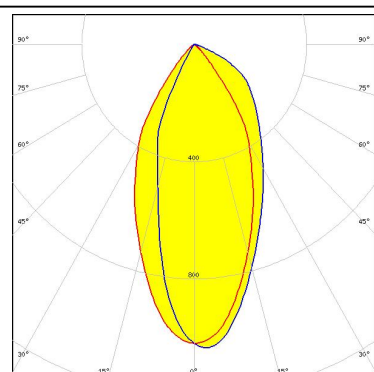
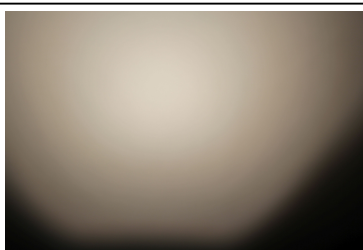
LED LUXEON CoB 1211
 FWHM Asymmetric
 Efficiency 88 %
 Peak intensity 1.300 cd/lm
 Required components:
 IDEAL: 50-2204-CT + 50-2100AN



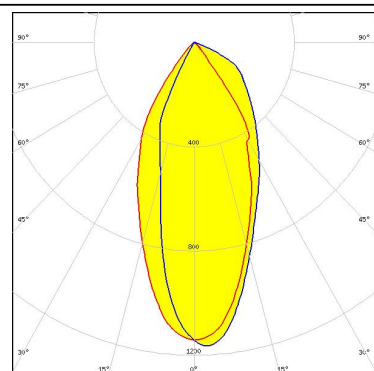
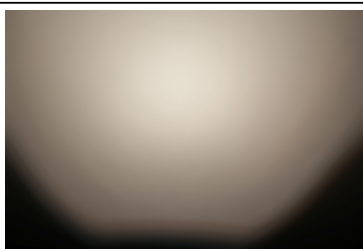
LED LUXEON CoB 1216/1812
 FWHM Asymmetric
 Efficiency 89 %
 Peak intensity 1.200 cd/lm
 Required components:
 IDEAL: 50-2204CT + 50-2100LN



LED CDM-14 (Dim-To-Warm)
 FWHM Asymmetric
 Efficiency 87 %
 Peak intensity 1.000 cd/lm
 Required components:
 C13658_CLAMP-VERO13-18
 F13671_ANGE-RZ-LENS
 Bender Wirth: 491 Typ L2



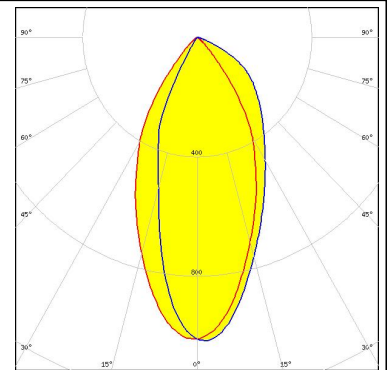
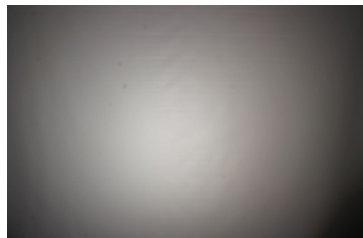
LED CDM-14 (Dim-To-Warm)
 FWHM Asymmetric
 Efficiency 91 %
 Peak intensity 1.200 cd/lm
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 491 Typ L2



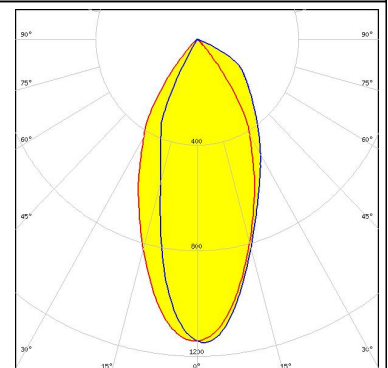
PHOTOMETRIC DATA (MEASURED):



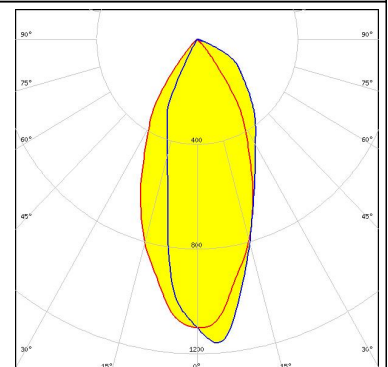
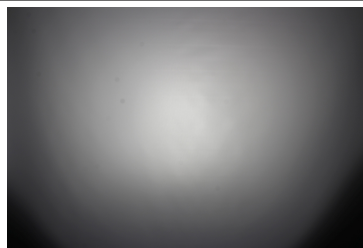
LED CDM-18 (Dim-To-Warm)
 FWHM Asymmetric
 Efficiency 87 %
 Peak intensity 1.000 cd/lm
 Required components:
 C13658_CLAMP-VERO13-18
 F13671_ANGE-RZ-LENS
 Bender Wirth: 491 Typ L2



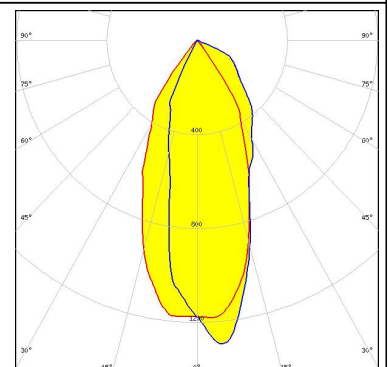
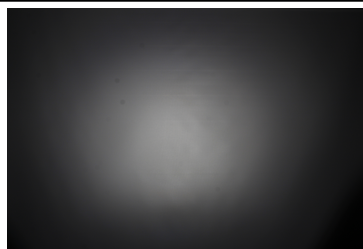
LED CDM-18 (Dim-To-Warm)
 FWHM Asymmetric
 Efficiency 92 %
 Peak intensity 1.150 cd/lm
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 491 Typ L2



LED CDM-9 (Dim-To-Warm)
 FWHM Asymmetric
 Efficiency 85 %
 Peak intensity 1.200 cd/lm
 Required components:
 C13658_CLAMP-VERO13-18
 F13671_ANGE-RZ-LENS
 Bender Wirth: 490 Typ L1



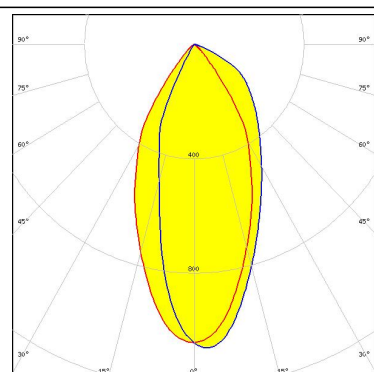
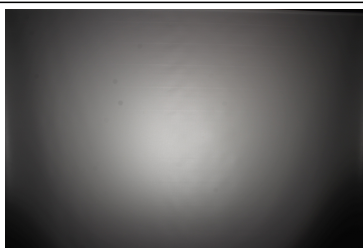
LED CDM-9 (Dim-To-Warm)
 FWHM Asymmetric
 Efficiency 90 %
 Peak intensity 1.300 cd/lm
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 490 Typ L1



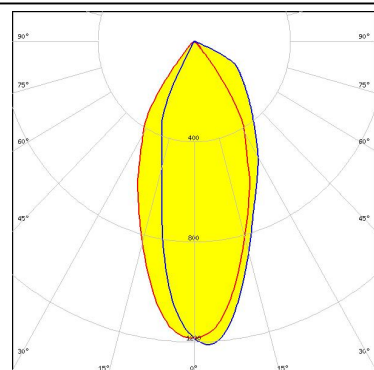
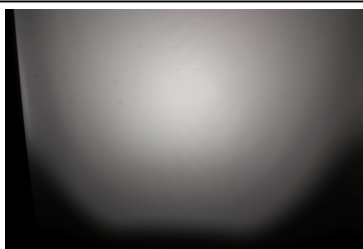
PHOTOMETRIC DATA (MEASURED):



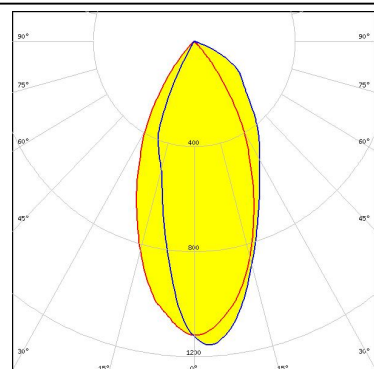
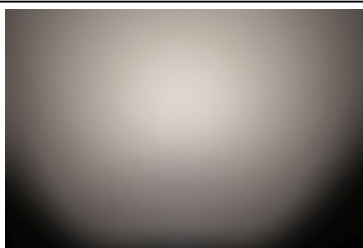
LED CTM-14 (Tunable White)
 FWHM Asymmetric
 Efficiency 87 %
 Peak intensity 1.100 cd/lm
 Required components:
 C13584_CLAMP-VERO29
 F13671_ANGE-RZ-LENS
 Bender Wirth: 442 Typ L3



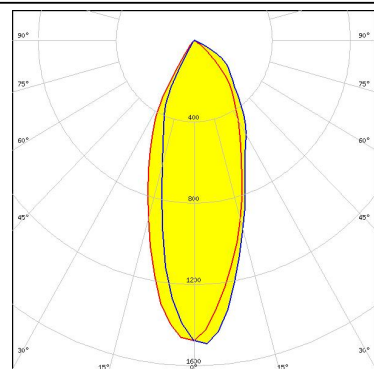
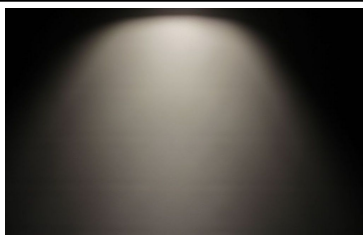
LED CTM-14 (Tunable White)
 FWHM Asymmetric
 Efficiency 92 %
 Peak intensity 1.200 cd/lm
 Required components:
 C13584_CLAMP-VERO29
 Bender Wirth: 442 Typ L3



LED CTM-22 (Tunable White)
 FWHM Asymmetric
 Efficiency 90 %
 Peak intensity 1.160 cd/lm
 Required components:
 C13584_CLAMP-VERO29
 Bender Wirth: 494 Typ L3



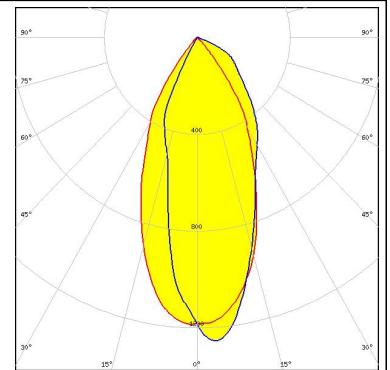
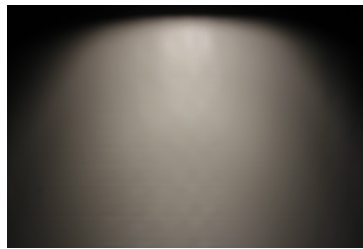
LED COB J-Type
 FWHM Asymmetric
 Efficiency 89 %
 Peak intensity 1.500 cd/lm
 Required components:
 IDEAL: 50-2103NC + 50-2100AN



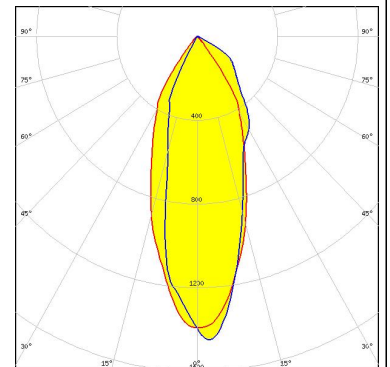
PHOTOMETRIC DATA (MEASURED):



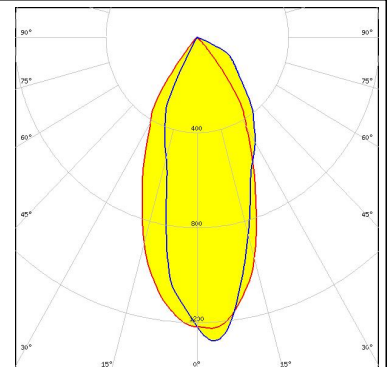
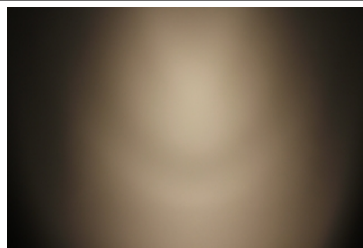
LED COB J-Type
 FWHM Asymmetric
 Efficiency 92 %
 Peak intensity 1.300 cd/lm
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 463 Typ L2



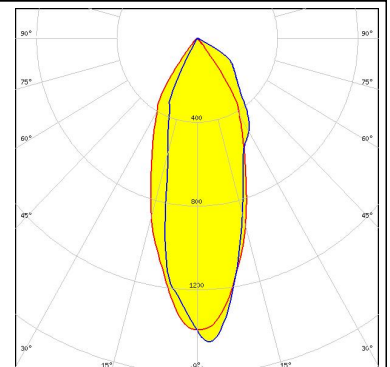
LED COB L-Type (LES 11)
 FWHM Asymmetric
 Efficiency 90 %
 Peak intensity 1.500 cd/lm
 Required components:
 IDEAL: 50-2100NC + 50-2100AN



LED COB L-Type (LES 11)
 FWHM Asymmetric
 Efficiency 91 %
 Peak intensity 1.300 cd/lm
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 438 Typ L1



LED COB L-Type (LES 11)
 FWHM Asymmetric
 Efficiency 91 %
 Peak intensity 1.400 cd/lm
 Required components:
 IDEAL: 50-2100NC + 50-2100AN



PHOTOMETRIC DATA (MEASURED):



LED COB L-Type (LES 11)

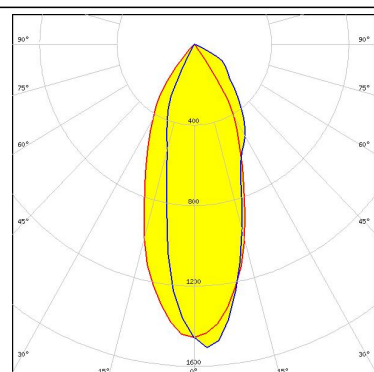
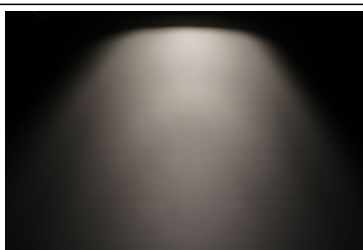
FWHM Asymmetric

Efficiency 93 %

Peak intensity 1.500 cd/lm

Required components:

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



LED COB L-Type (LES 9)

FWHM Asymmetric

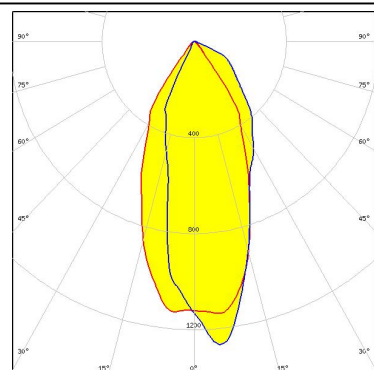
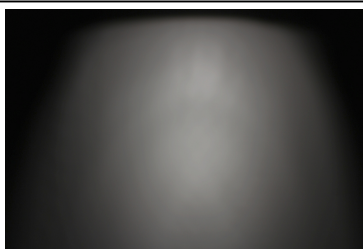
Efficiency 93 %

Peak intensity 1.300 cd/lm

Required components:

C13658_CLAMP-VERO13-18

Bender Wirth: 438 Typ L1



LED PrevaLED Core G7 L15 H1

FWHM Asymmetric

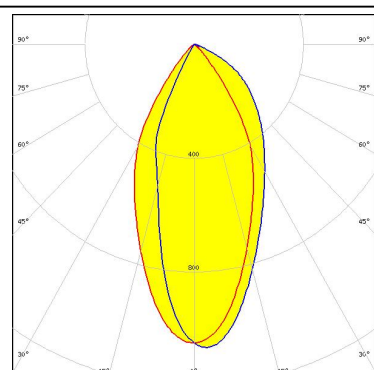
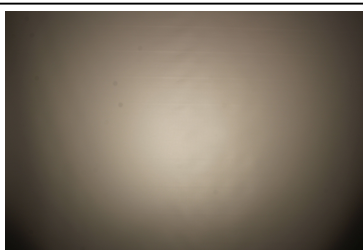
Efficiency 89 %

Peak intensity 1.100 cd/lm

Required components:

C16685_CLAMP-PRV-A

F13671_ANGE-RZ-LENS



LED PrevaLED Core G7 L15 H1

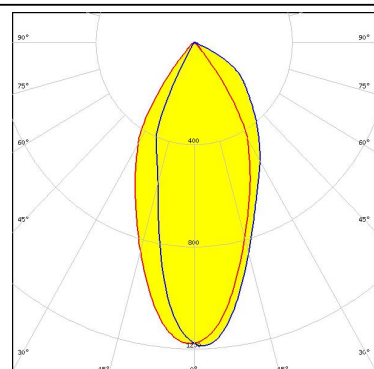
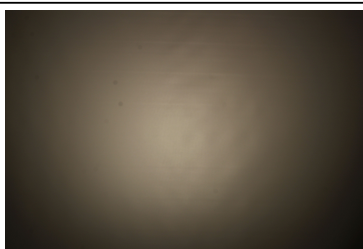
FWHM Asymmetric

Efficiency 93 %

Peak intensity 1.200 cd/lm

Required components:

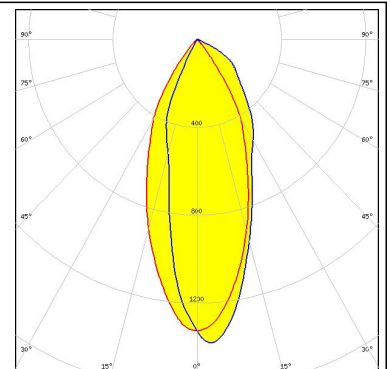
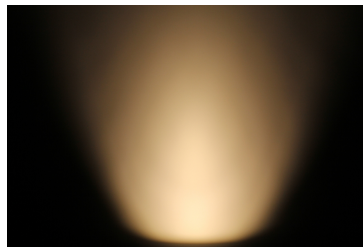
C16685_CLAMP-PRV-A



PHOTOMETRIC DATA (MEASURED):

OSRAM

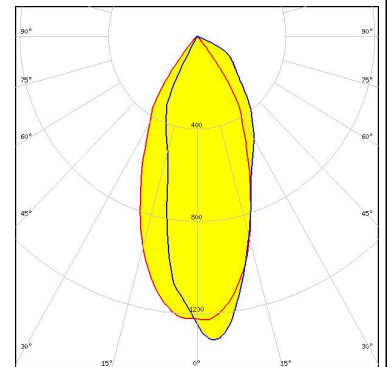
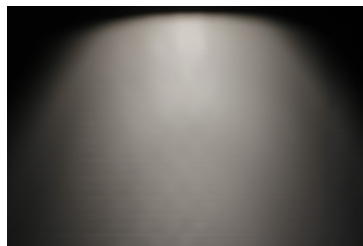
LED PrevaLED Core Z4 LES19
 FWHM Asymmetric
 Efficiency 91 %
 Peak intensity 1.400 cd/lm
 Required components:
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



OSRAM

Opto Semiconductors

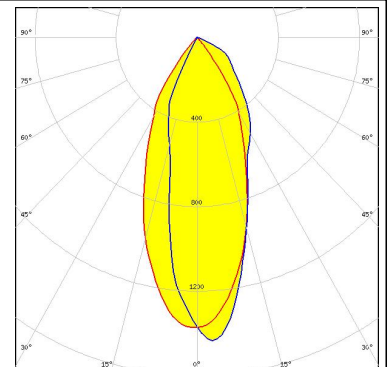
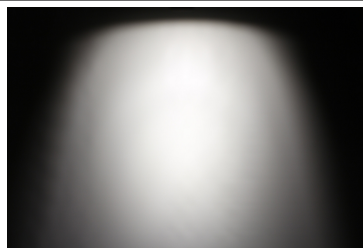
LED Soleriq S13
 FWHM Asymmetric
 Efficiency 91 %
 Peak intensity 1.300 cd/lm
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 437 Typ L1



OSRAM

Opto Semiconductors

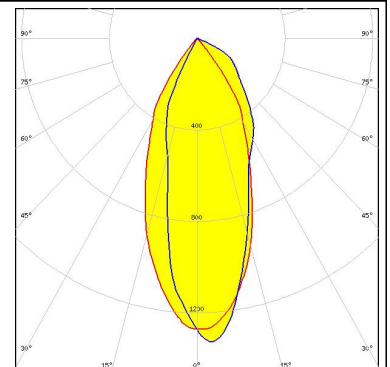
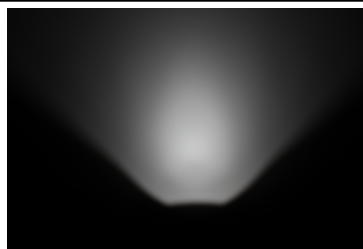
LED Soleriq S13
 FWHM Asymmetric
 Efficiency 93 %
 Peak intensity 1.400 cd/lm
 Required components:
 TE: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1



OSRAM

Opto Semiconductors

LED Soleriq S13 Gen2
 FWHM Asymmetric
 Efficiency 91 %
 Peak intensity 1.300 cd/lm
 Required components:
 TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



PHOTOMETRIC DATA (MEASURED):

OSRAM
Opto Semiconductors

LED Soleriq S13 Gen2

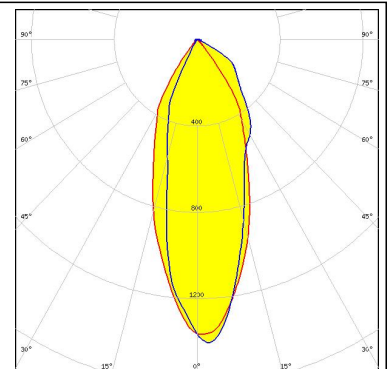
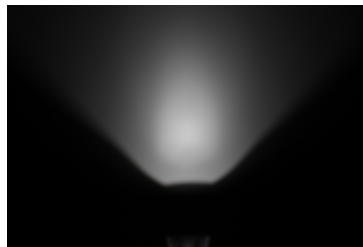
FWHM Asymmetric

Efficiency 89 %

Peak intensity 1.400 cd/lm

Required components:

IDEAL: 50-2103CT + 50-2100AN



OSRAM
Opto Semiconductors

LED Soleriq S19

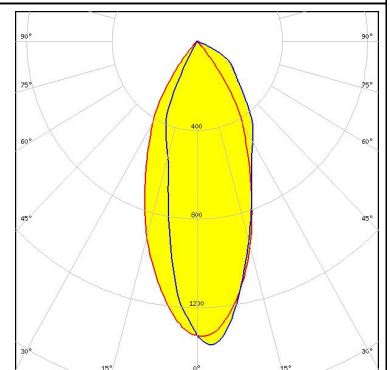
FWHM Asymmetric

Efficiency 93 %

Peak intensity 1.400 cd/lm

Required components:

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



OSRAM
Opto Semiconductors

LED Soleriq S19

FWHM Asymmetric

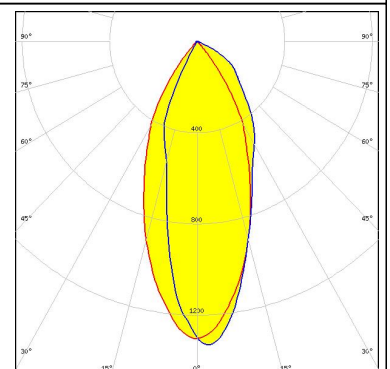
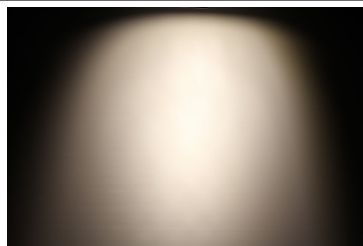
Efficiency 91 %

Peak intensity 1.300 cd/lm

Required components:

C13584_CLAMP-VERO29

Bender Wirth: 462 Typ L3



PHILIPS

LED Fortimo SLM L09 + SLM holder

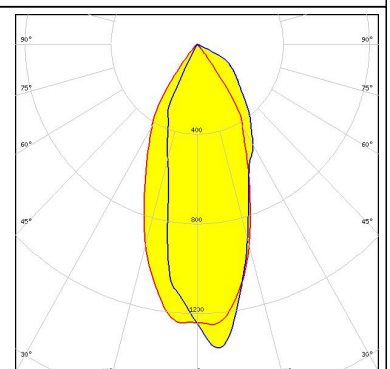
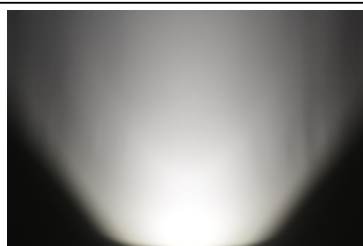
FWHM Asymmetric

Efficiency 91 %

Peak intensity 1.360 cd/lm

Required components:

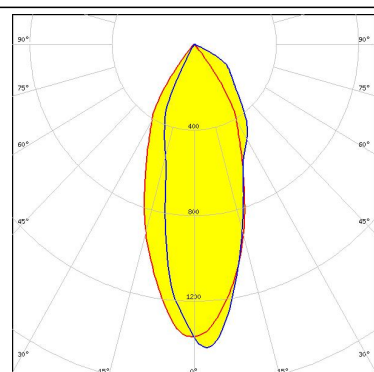
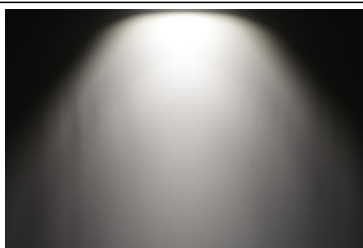
TE: OPTIC CLIP Z50 TYPE1 2213194-1



PHOTOMETRIC DATA (MEASURED):

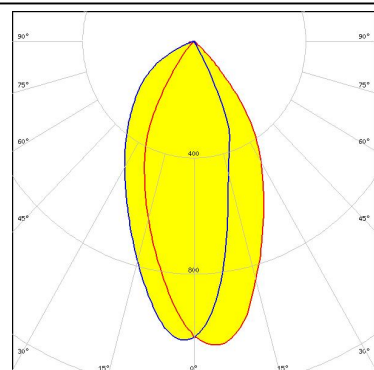
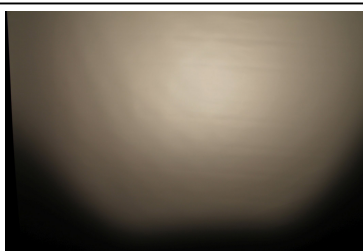
PHILIPS

LED Fortimo SLM L13 + SLM holder
 FWHM Asymmetric
 Efficiency 91 %
 Peak intensity 1.420 cd/lm
 Required components:
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



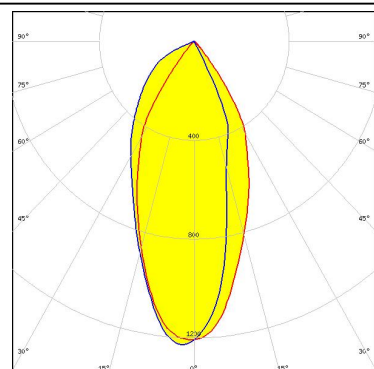
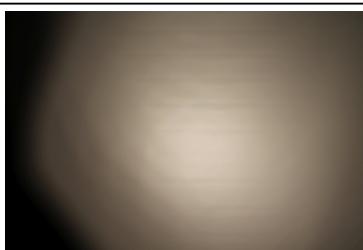
PHILIPS

LED Fortimo SLM L13 CoB
 FWHM Asymmetric
 Efficiency 85 %
 Peak intensity 1.100 cd/lm
 Required components:
 F13671_ANGE-RZ-LENS
 TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



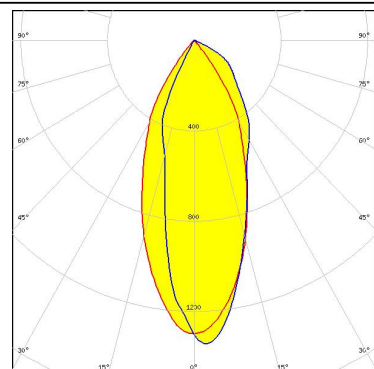
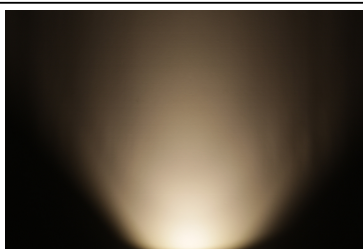
PHILIPS

LED Fortimo SLM L13 CoB
 FWHM Asymmetric
 Efficiency 92 %
 Peak intensity 1.200 cd/lm
 Required components:
 TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



PHILIPS

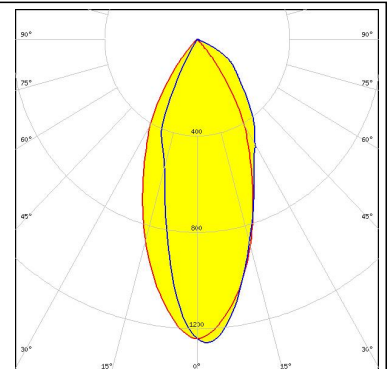
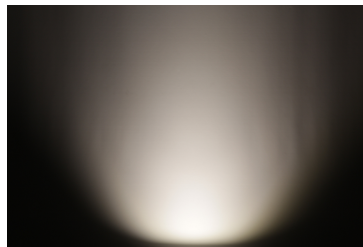
LED Fortimo SLM L15 + SLM holder
 FWHM Asymmetric
 Efficiency 90 %
 Peak intensity 1.350 cd/lm
 Required components:
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



PHOTOMETRIC DATA (MEASURED):

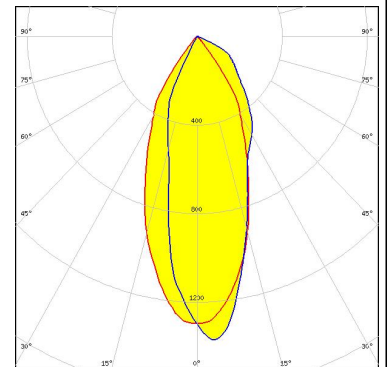
PHILIPS

LED Fortimo SLM L19 + SLM holder
 FWHM Asymmetric
 Efficiency 88 %
 Peak intensity 1.260 cd/lm
 Required components:
 TE: OPTIC CLIP Z50 TYPE1 2213194-1

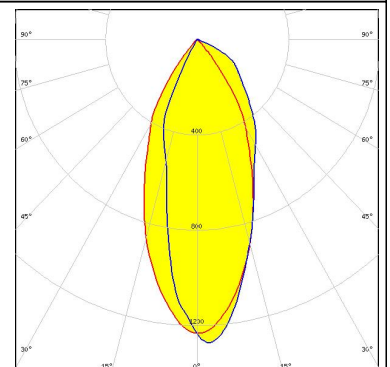
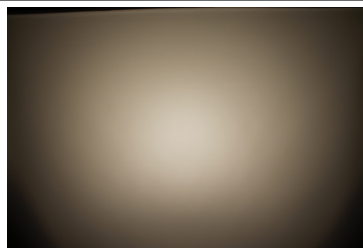


SAMSUNG

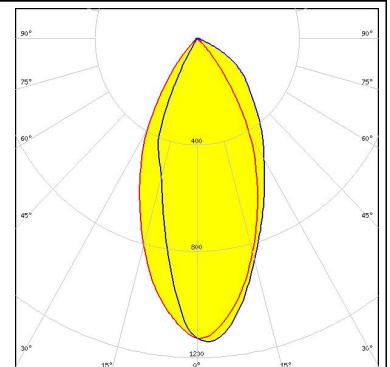
LED LC040C
 FWHM Asymmetric
 Efficiency 91 %
 Peak intensity 1.400 cd/lm
 Required components:
 TE: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



LED MJT COB LES 14.5
 FWHM Asymmetric
 Efficiency 91 %
 Peak intensity 1.300 cd/lm
 Required components:
 TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



LED MJT COB LES 22
 FWHM Asymmetric
 Efficiency 89 %
 Peak intensity 1.100 cd/lm
 Required components:
 C13584_CLAMP-VERO29
 Bender Wirth: 431 Typ L3

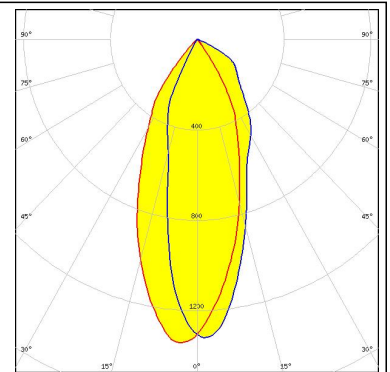
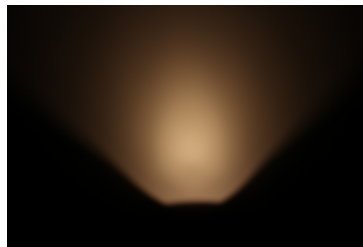


PHOTOMETRIC DATA (MEASURED):



LED WU-M-484
FWHM Asymmetric
Efficiency 88 %
Peak intensity 1.400 cd/lm
Required components:

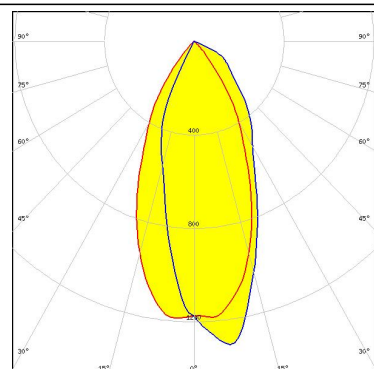
TE: OPTIC CLIP Z50 TYPE1 2213194-1



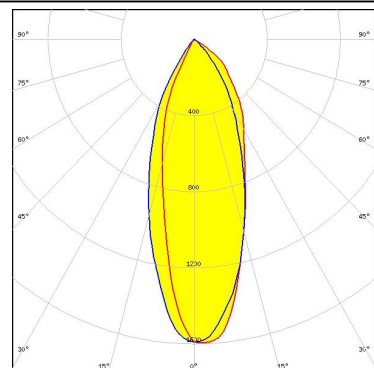
PHOTOMETRIC DATA (SIMULATED):



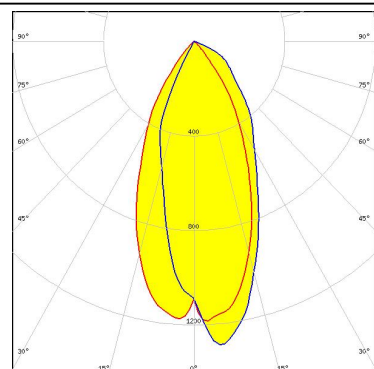
LED V10 Gen7
 FWHM Asymmetric
 Efficiency 92 %
 Peak intensity 1.310 cd/lm
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 486 Typ L1



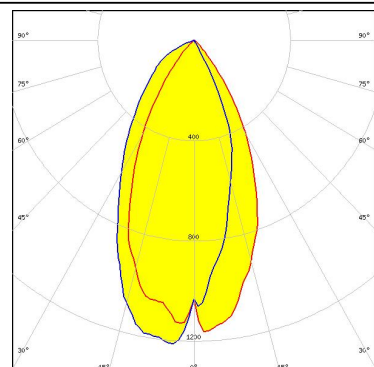
LED V13 Gen7
 FWHM Asymmetric
 Efficiency 92 %
 Peak intensity 1.600 cd/lm
 Required components:
 IDEAL: 50-2103CT + 50-2100AN



LED V13 Gen7
 FWHM Asymmetric
 Efficiency 92 %
 Peak intensity 1.330 cd/lm
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 477 Typ L1



LED V22 Gen7
 FWHM Asymmetric
 Efficiency 94 %
 Peak intensity 1.248 cd/lm
 Required components:
 C13584_CLAMP-VERO29
 Bender Wirth: 431 Typ L3



PHOTOMETRIC DATA (SIMULATED):

TRIDONIC

LED SLE G6 LES15

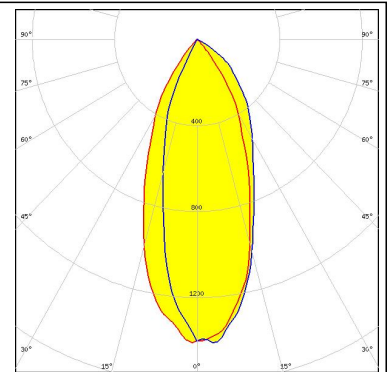
FWHM Asymmetric

Efficiency 91 %

Peak intensity 1.400 cd/lm

Required components:

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



TRIDONIC

LED SLE G6 LES17

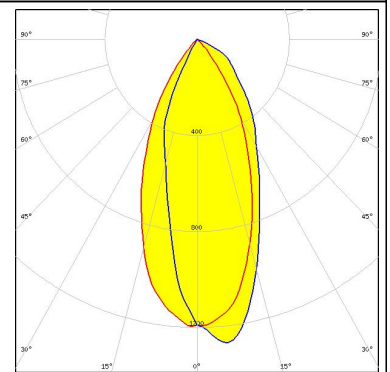
FWHM Asymmetric

Efficiency 88 %

Peak intensity 1.280 cd/lm

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.

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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