

LENA-S

~11° spot beam

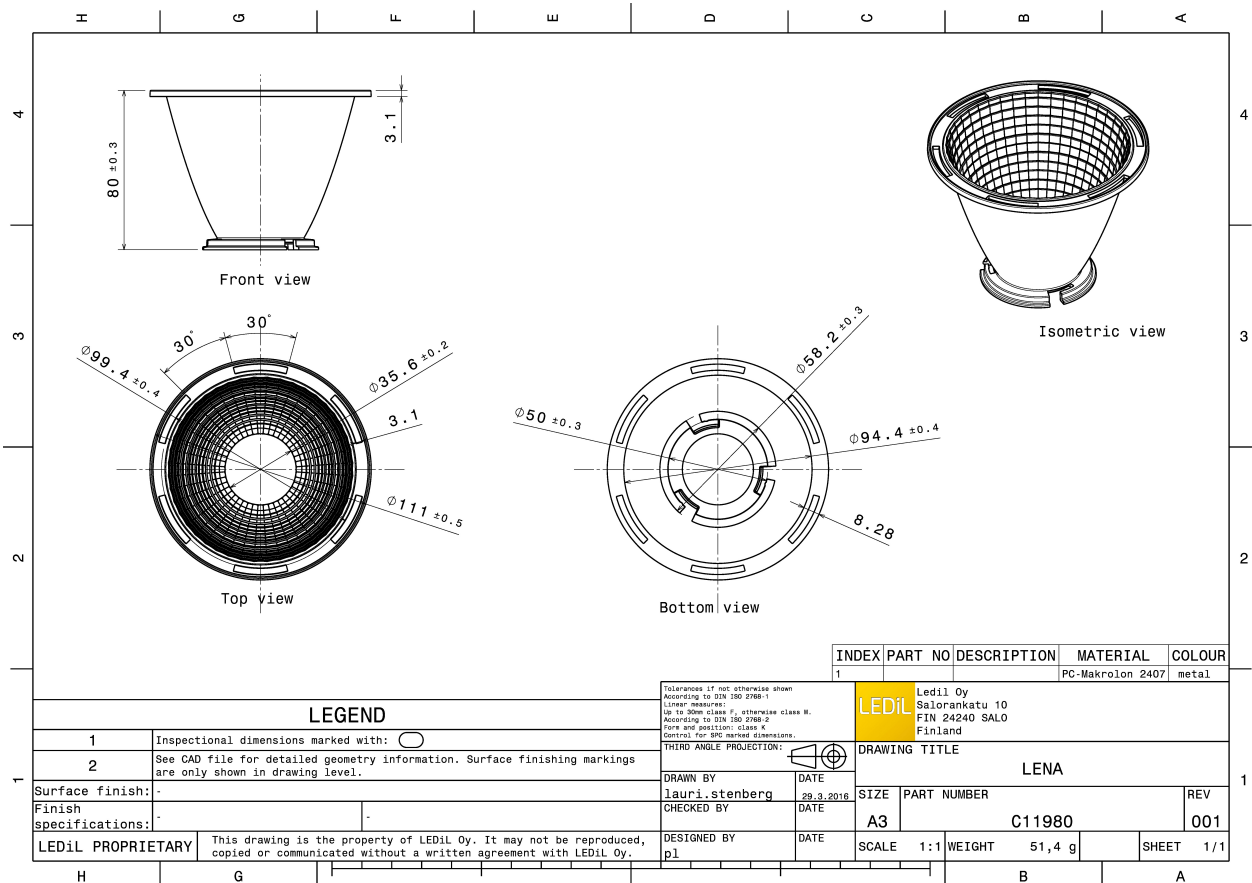
TECHNICAL SPECIFICATIONS:

Dimensions	Ø 111.0 mm
Height	80 mm
Fastening	socket
Colour	metal
Box size	400 x 280 x 380 mm
Box weight	3.8 kg
Quantity in Box	60 pcs
ROHS compliant	yes ⓘ



MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Coating
LENA-S	Reflector	PC	metal	lacquer



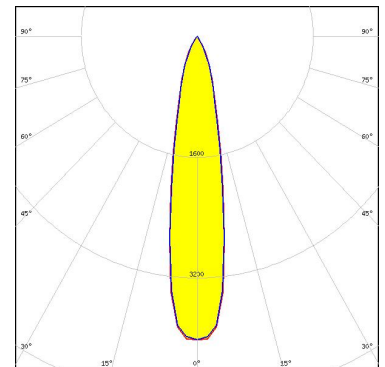
PHOTOMETRIC DATA (MEASURED):



LED BXRA ES Rectangle
FWHM 11.0°
Efficiency 78 %
Peak intensity cd/lm
Required components:
C12153_LENA-STD-BASE-BXRA
C11996_LENA-LENS



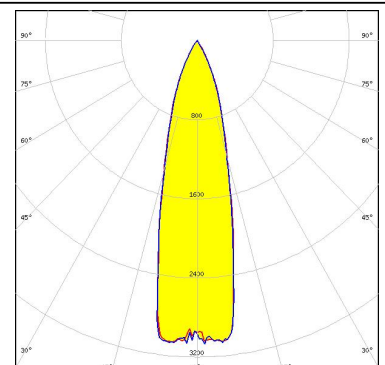
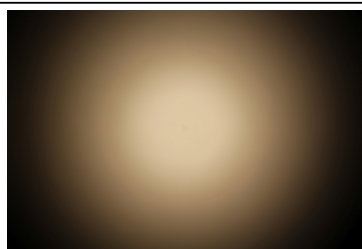
LED BXRA RS
FWHM 20.0°
Efficiency 80 %
Peak intensity cd/lm
Required components:
C12229_LENA-STD-BASE-RS
C11996_LENA-LENS



LED V10 Gen6
FWHM 9.0°
Efficiency 76 %
Peak intensity 12.110 cd/lm
Required components:
C13186_LENA-STD-BASE-CXA15
C11996_LENA-LENS



LED Vero SE 29
FWHM 27.0°
Efficiency 87 %
Peak intensity 3.100 cd/lm
Required components:
C15083_LENA-STD-BASE-VERO29



PHOTOMETRIC DATA (MEASURED):



LED VERO13

FWHM 14.0°

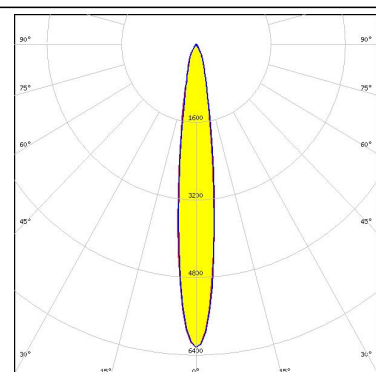
Efficiency 83 %

Peak intensity 6.250 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

C11996_LENA-LENS



LED VERO18

FWHM 17.0°

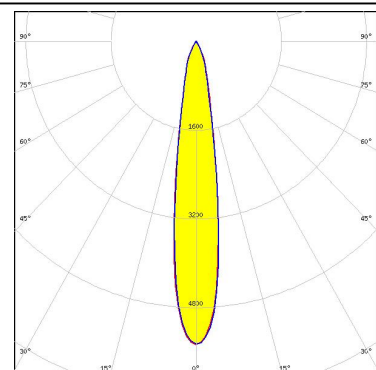
Efficiency 83 %

Peak intensity 5.500 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

C11996_LENA-LENS



LED VERO29

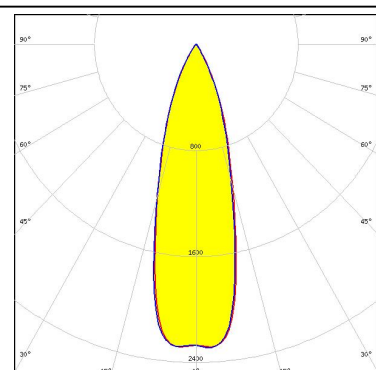
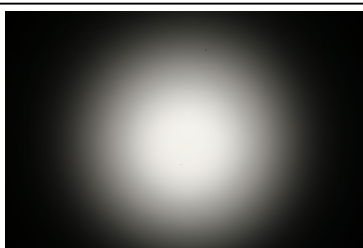
FWHM 30.0°

Efficiency 80 %

Peak intensity 2.300 cd/lm

Required components:

C13867_LENA-STD-BASE-VERO29



CITIZEN

LED CL-L340

FWHM 14.0°

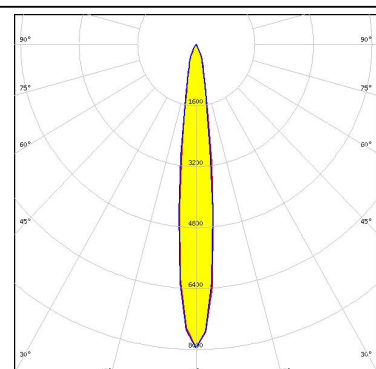
Efficiency 79 %

Peak intensity 8.000 cd/lm

Required components:

C11995_LENA-STD-BASE-CL340

C11996_LENA-LENS



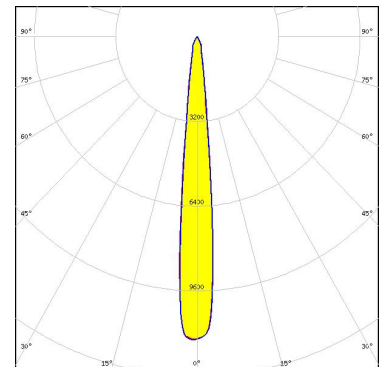
PHOTOMETRIC DATA (MEASURED):

CITIZEN

LED CL-L340
FWHM 11.0°
Efficiency 84 %
Peak intensity 10.100 cd/lm
Required components:
C11995_LENA-STD-BASE-CL340

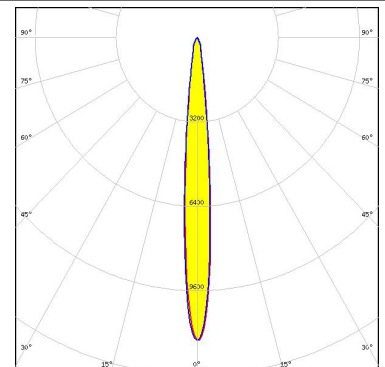
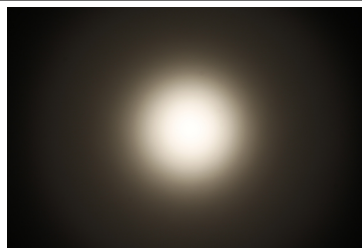
CITIZEN

LED CL-L340
FWHM 11.0°
Efficiency 86 %
Peak intensity 11.450 cd/lm
Required components:
C11995_LENA-STD-BASE-CL340



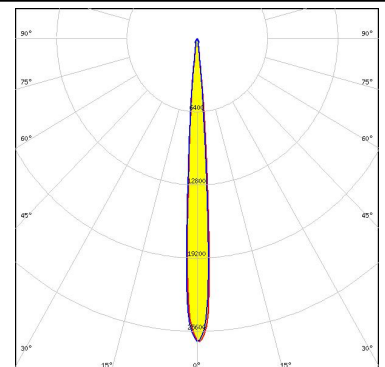
CITIZEN

LED CLL02x/CLU02x (LES10)
FWHM 10.0°
Efficiency 80 %
Peak intensity 11.500 cd/lm
Required components:
C13868_LENA-STD-BASE-VERO13-18
C11996_LENA-LENS
Bender Wirth: 434 Typ L1



CITIZEN

LED CLL02x/CLU02x (LES10)
FWHM 8.0°
Efficiency 85 %
Peak intensity 26.500 cd/lm
Required components:
C13868_LENA-STD-BASE-VERO13-18
Bender Wirth: 434 Typ L1



PHOTOMETRIC DATA (MEASURED):

CITIZEN

LED CLL03x/CLU03x

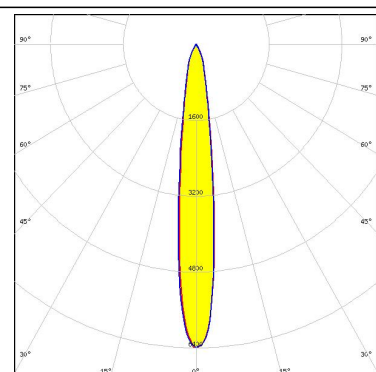
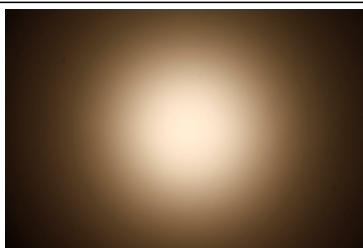
FWHM 13.0°

Efficiency 78 %

Peak intensity 6.400 cd/lm

Required components:

A.A.G. STUCCHI: 8101/G2 + S-8000/11



CITIZEN

LED CLL03x/CLU03x

FWHM 13.0°

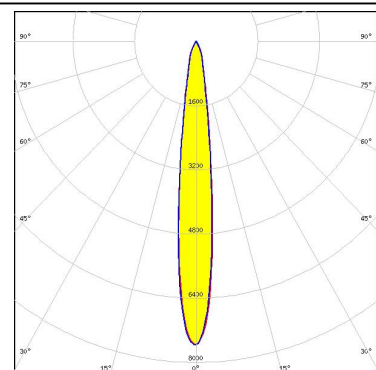
Efficiency 80 %

Peak intensity 7.600 cd/lm

Required components:

C12691_LENA-STD-BASE-CLL030

C11996_LENA-LENS



CITIZEN

LED CLL03x/CLU03x

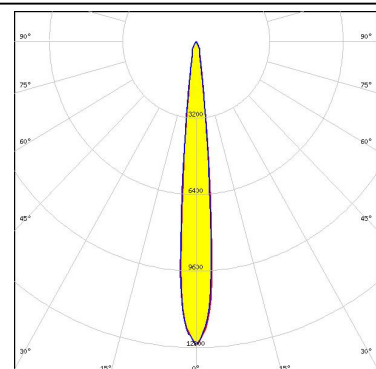
FWHM 11.0°

Efficiency 85 %

Peak intensity 13.000 cd/lm

Required components:

C12691_LENA-STD-BASE-CLL030



CITIZEN

LED CLL03x/CLU03x

FWHM 14.0°

Efficiency 80 %

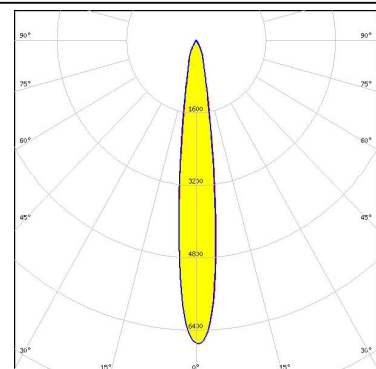
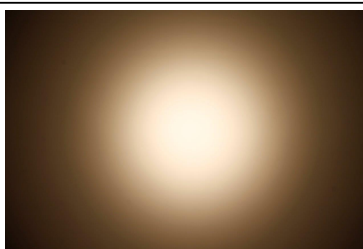
Peak intensity 6.700 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

C11996_LENA-LENS

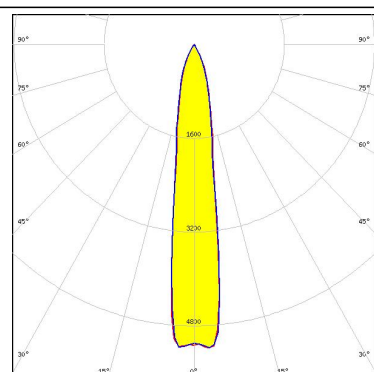
Bender Wirth: 433 Typ L1



PHOTOMETRIC DATA (MEASURED):

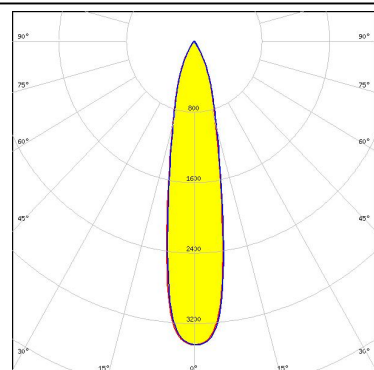
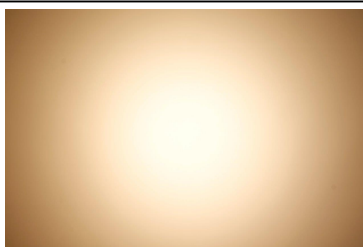
CITIZEN

LED CLL04x/CLU04x
FWHM 16.0°
Efficiency 85 %
Peak intensity 5.200 cd/lm
Required components:
IDEAL: 50-2204CT + 50-2100LN



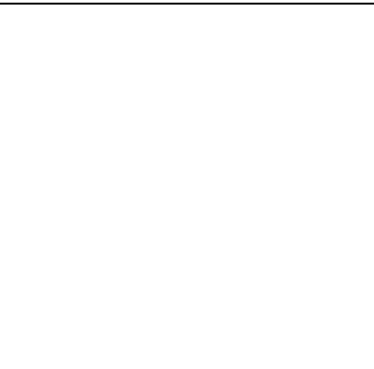
CITIZEN

LED CLL04x/CLU04x
FWHM 21.0°
Efficiency 80 %
Peak intensity 3.400 cd/lm
Required components:
C13867_LENA-STD-BASE-VERO29
Bender Wirth: 431 Typ L3



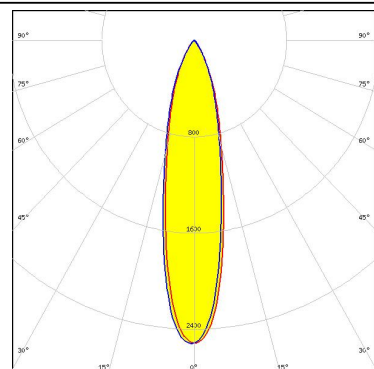
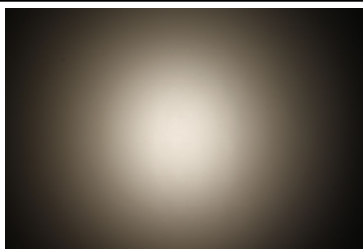
CITIZEN

LED CLL04x/CLU04x
FWHM 15.0°
Efficiency 84 %
Peak intensity 5.250 cd/lm
Required components:
C12692_LENA-STD-BASE-CLL040



CITIZEN

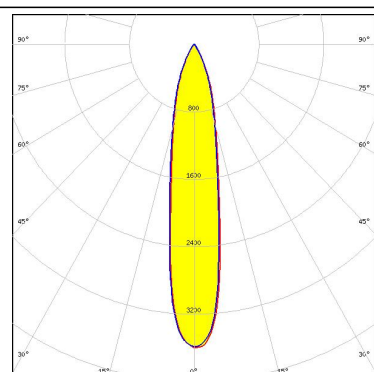
LED CLL04x/CLU04x
FWHM 23.0°
Efficiency 73 %
Peak intensity 2.500 cd/lm
Required components:
A.A.G. STUCCHI: 8102/G2 + S-8000/12



PHOTOMETRIC DATA (MEASURED):

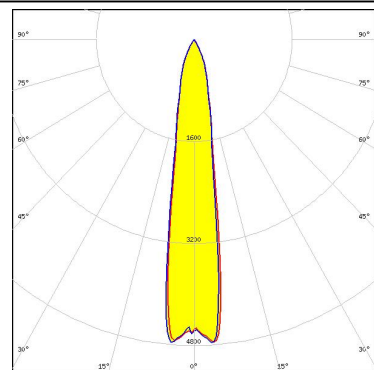
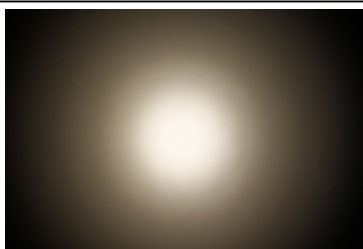
CITIZEN

LED CLL04x/CLU04x
FWHM 19.0°
Efficiency 81 %
Peak intensity 3.600 cd/lm
Required components:
IDEAL: 50-2204CT + 50-2100LN



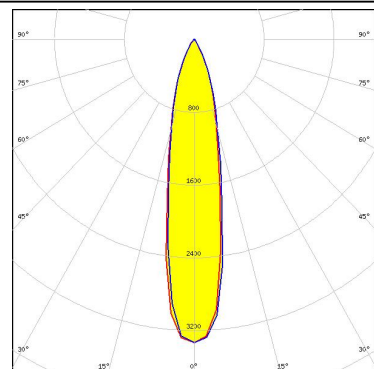
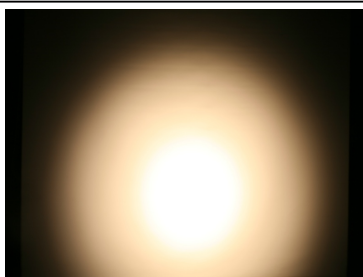
CITIZEN

LED CLL04x/CLU04x
FWHM 17.0°
Efficiency 78 %
Peak intensity 4.800 cd/lm
Required components:
A.A.G. STUCCHI: 8102/G2 + S-8000/12



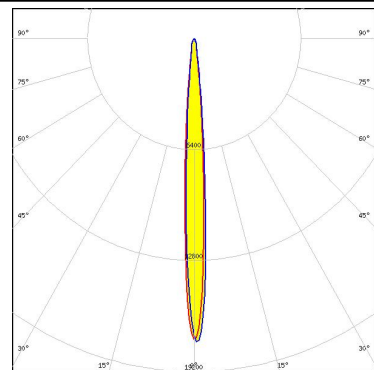
CITIZEN

LED CLL04x/CLU04x
FWHM 16.0°
Efficiency 79 %
Peak intensity 3.820 cd/lm
Required components:
C12692_LENA-STD-BASE-CLL040
C11996_LENA-LENS



CITIZEN

LED CLU700/701
FWHM 8.0°
Efficiency 80 %
Peak intensity 17.500 cd/lm
Required components:
C13868_LENA-STD-BASE-VERO13-18
C11996_LENA-LENS
Bender Wirth: 434 Typ L1



PHOTOMETRIC DATA (MEASURED):

CITIZEN

LED CLU700/701

FWHM 5.0°

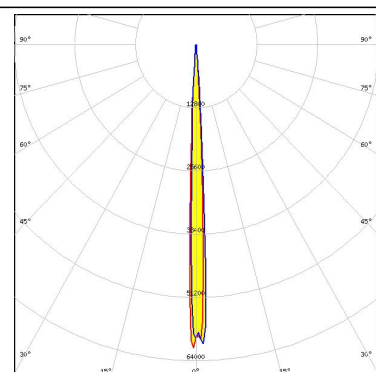
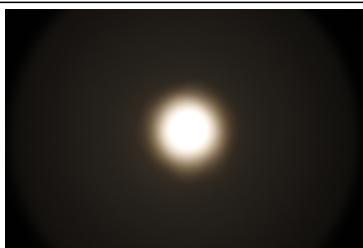
Efficiency 87 %

Peak intensity 61.400 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

Bender Wirth: 434 Typ L1



CITIZEN

LED CLU710/711

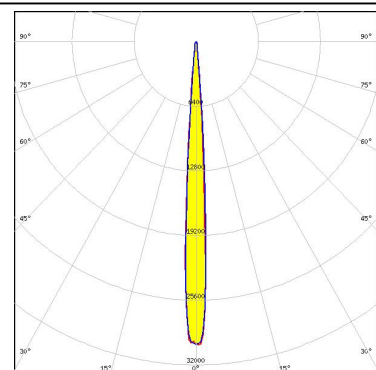
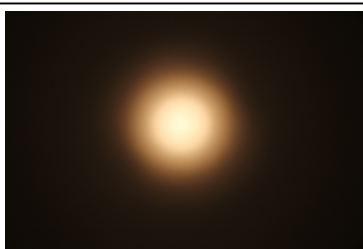
FWHM 7.0°

Efficiency 90 %

Peak intensity 30.000 cd/lm

Required components:

C12691_LENA-STD-BASE-CLL030



CITIZEN

LED CLU710/711

FWHM 9.0°

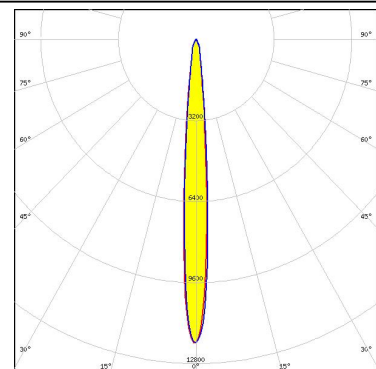
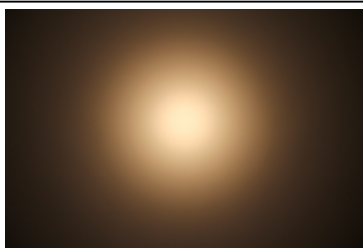
Efficiency 83 %

Peak intensity 12.000 cd/lm

Required components:

C12691_LENA-STD-BASE-CLL030

C11996_LENA-LENS



CITIZEN

LED CLU720/721

FWHM 11.0°

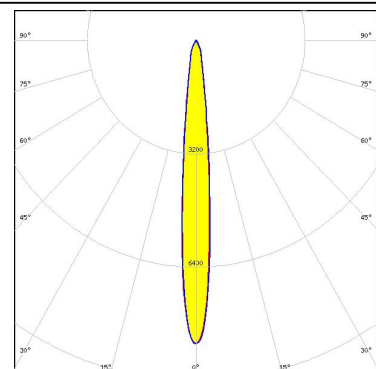
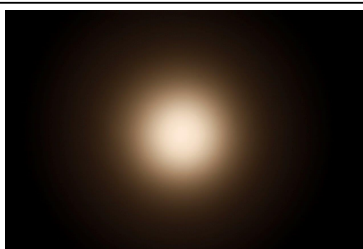
Efficiency 79 %

Peak intensity 8.600 cd/lm

Required components:

C12691_LENA-STD-BASE-CLL030

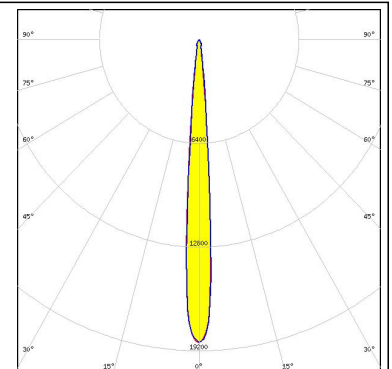
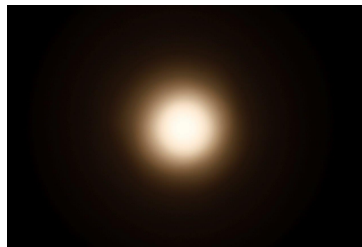
C11996_LENA-LENS



PHOTOMETRIC DATA (MEASURED):

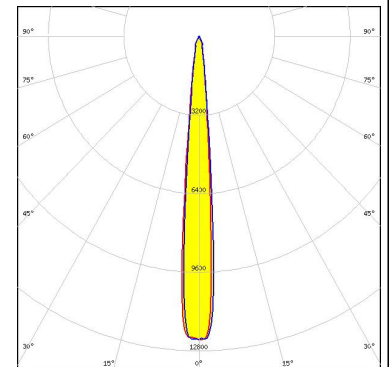
CITIZEN

LED CLU720/721
FWHM 9.0°
Efficiency 85 %
Peak intensity 18.700 cd/lm
Required components:
C12691_LENA-STD-BASE-CLL030



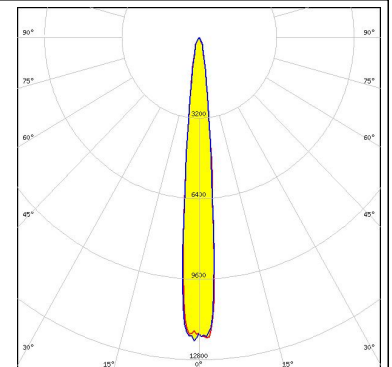
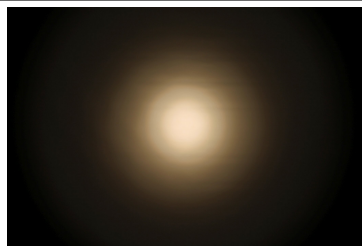
CITIZEN

LED CLU730/731
FWHM 10.0°
Efficiency 82 %
Peak intensity 12.400 cd/lm
Required components:
C12692_LENA-STD-BASE-CLL040



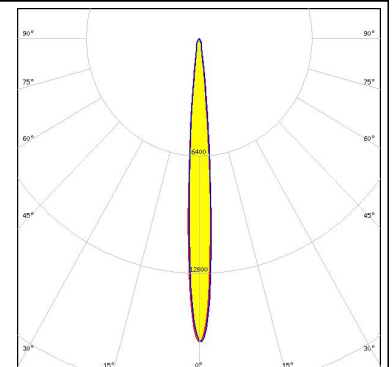
CREE

LED CMA1840
FWHM 11.0°
Efficiency 88 %
Peak intensity 12.000 cd/lm
Required components:
C14146_LENA-STD-BASE-CXA18



CREE

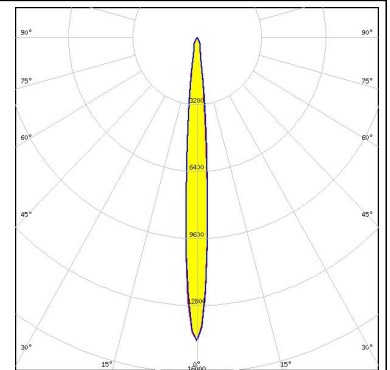
LED CXA/B 15xx
FWHM 8.0°
Efficiency 80 %
Peak intensity 16.500 cd/lm
Required components:
C13868_LENA-STD-BASE-VERO13-18
C11996_LENA-LENS
Bender Wirth: 441 Typ L1



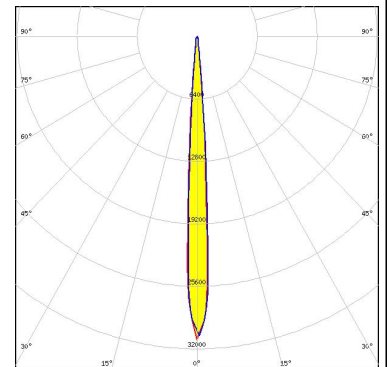
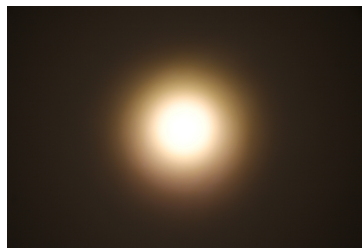
PHOTOMETRIC DATA (MEASURED):



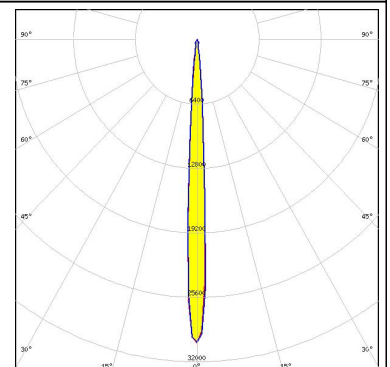
LED CXA/B 15xx
FWHM 8.0°
Efficiency 81 %
Peak intensity 15.500 cd/lm
Required components:
C13186_LENA-STD-BASE-CXA15
C11996_LENA-LENS



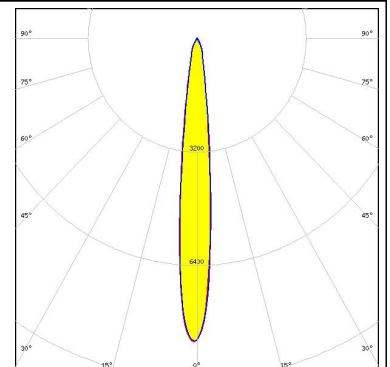
LED CXA/B 15xx
FWHM 7.0°
Efficiency 86 %
Peak intensity 31.300 cd/lm
Required components:
C13868_LENA-STD-BASE-VERO13-18
Bender Wirth: 441 Typ L1



LED CXA/B 15xx
FWHM 7.0°
Efficiency 87 %
Peak intensity 30.120 cd/lm
Required components:
C13186_LENA-STD-BASE-CXA15



LED CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM 12.0°
Efficiency 82 %
Peak intensity 8.600 cd/lm
Required components:
C13868_LENA-STD-BASE-VERO13-18
C11996_LENA-LENS
Bender Wirth: 437 Typ L1



PHOTOMETRIC DATA (MEASURED):



LED CXA/B 1816 & CXA/B 1820 & CXA 1850

FWHM 10.0°

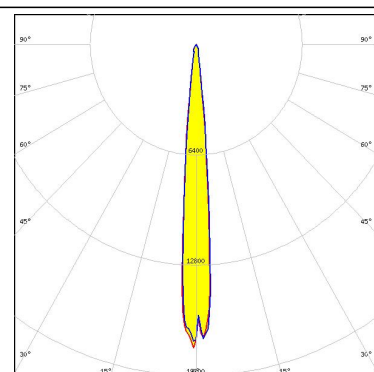
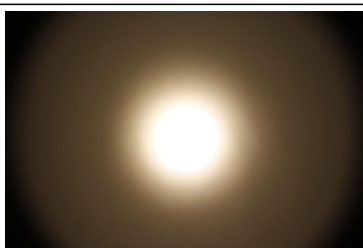
Efficiency 87 %

Peak intensity 17.600 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

Bender Wirth: 437 Typ L1



LED CXA/B 1830

FWHM 12.0°

Efficiency 82 %

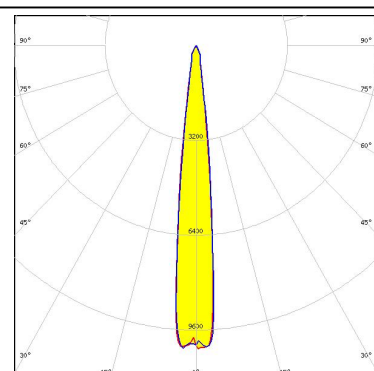
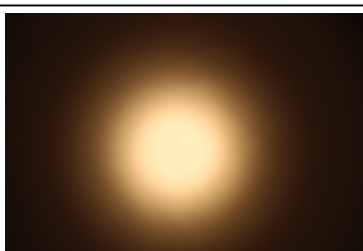
Peak intensity 10.300 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

C14169_LENA-CLEAR-LENS

Bender Wirth: 437 Typ L1



LED CXA/B 1830

FWHM 12.0°

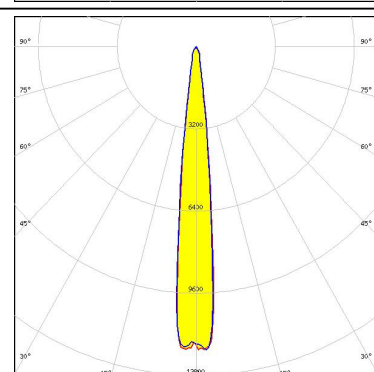
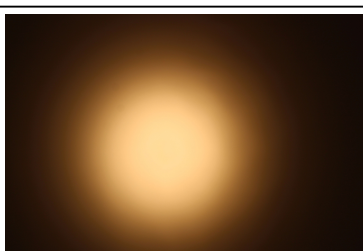
Efficiency 87 %

Peak intensity 11.900 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

Bender Wirth: 437 Typ L1



LED CXA/B 1830

FWHM 18.0°

Efficiency 75 %

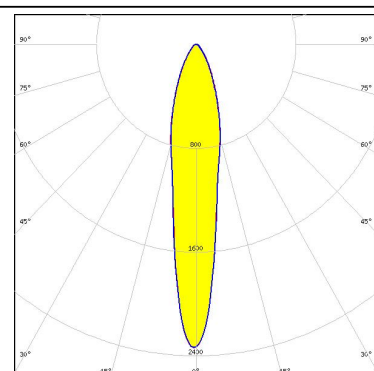
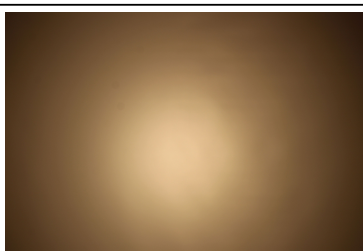
Peak intensity 2.300 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

C12231_LENA-FRESNEL-LENS

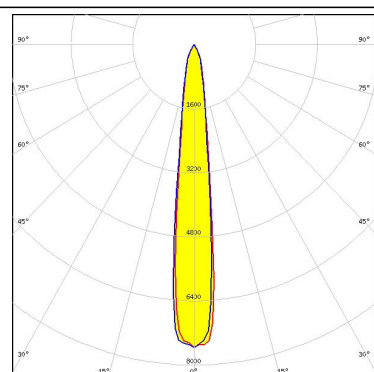
Bender Wirth: 437 Typ L1



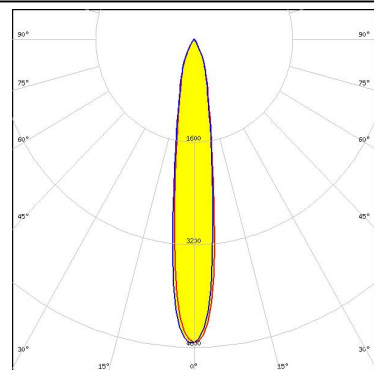
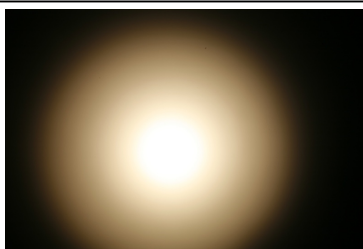
PHOTOMETRIC DATA (MEASURED):



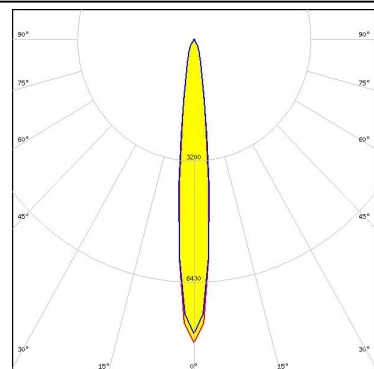
LED CXA/B 25xx
FWHM 13.0°
Efficiency 84 %
Peak intensity 8.000 cd/lm
Required components:
C13324_LENA-STD-BASE-CXA25



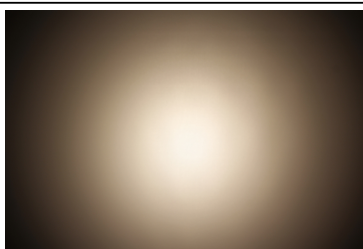
LED CXA/B 25xx
FWHM 13.0°
Efficiency 79 %
Peak intensity 5.900 cd/lm
Required components:
C13324_LENA-STD-BASE-CXA25
C11996_LENA-LENS



LED CXA2011
FWHM 11.0°
Efficiency 80 %
Peak intensity cd/lm
Required components:
C12105_LENA-STD-BASE-CXA20
C11996_LENA-LENS



LED CHI3030 19W
FWHM 20.0°
Efficiency 86 %
Peak intensity 4.100 cd/lm
Required components:
C13867_LENA-STD-BASE-VERO29
Bender Wirth: 468 Typ L3



PHOTOMETRIC DATA (MEASURED):

EVERLIGHT

LED CHI3030 29W

FWHM 25.0°

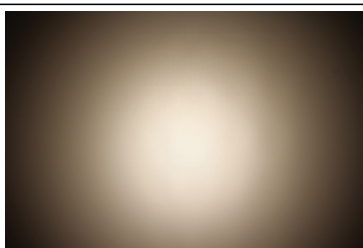
Efficiency 80 %

Peak intensity 2.700 cd/lm

Required components:

C13867_LENA-STD-BASE-VERO29

Bender Wirth: 468 Typ L3



LUMILEDS

LED LUXEON CoB 1202/1203

FWHM 7.0°

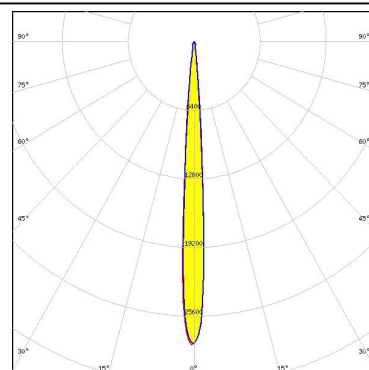
Efficiency 87 %

Peak intensity 28.300 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

Bender Wirth: 438 Typ L1



LUMILEDS

LED LUXEON CoB 1204/1205

FWHM 12.0°

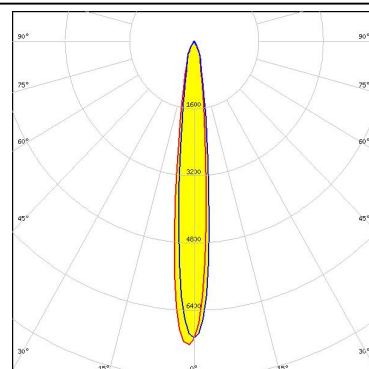
Efficiency 77 %

Peak intensity 7.300 cd/lm

Required components:

C12292_LENA-STD-BASE-MEZ

C11996_LENA-LENS



LUMILEDS

LED LUXEON CoB 1204/1205

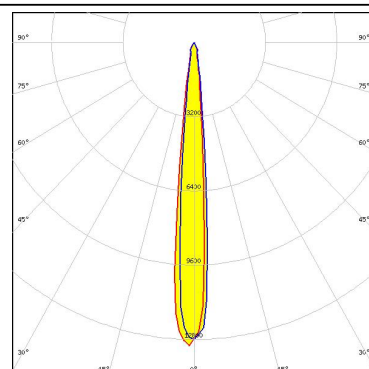
FWHM 10.0°

Efficiency 83 %

Peak intensity 13.100 cd/lm

Required components:

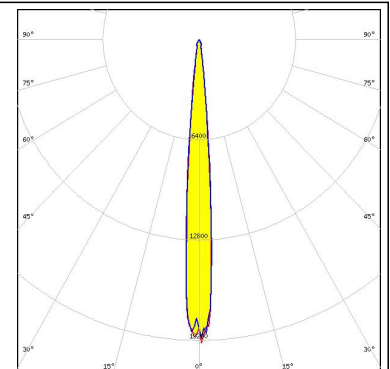
C12292_LENA-STD-BASE-MEZ



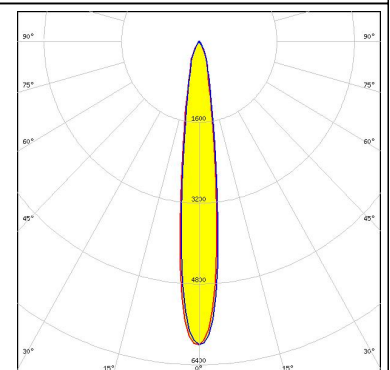
PHOTOMETRIC DATA (MEASURED):



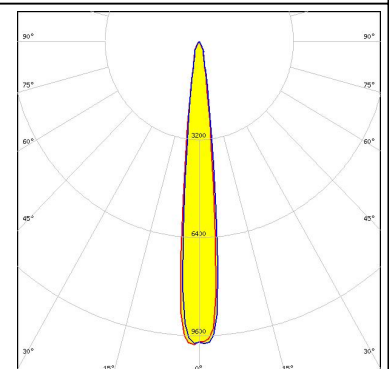
LED LUXEON CoB 1205HD
FWHM 9.0°
Efficiency 88 %
Peak intensity 19.200 cd/lm
Required components:
C11981_LENA-STD-BASE-COB-L110



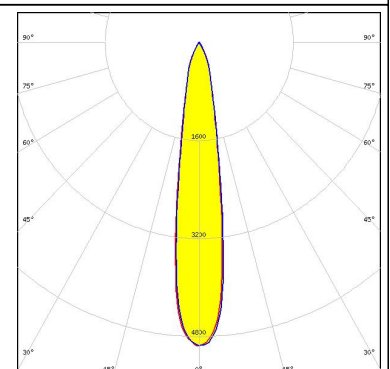
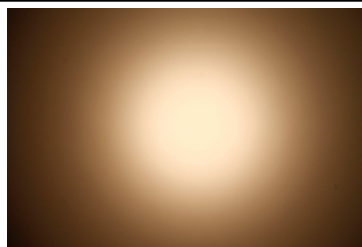
LED LUXEON CoB 1208
FWHM 14.0°
Efficiency 78 %
Peak intensity 6.000 cd/lm
Required components:
C12292_LENA-STD-BASE-MEZ
C11996_LENA-LENS



LED LUXEON CoB 1208
FWHM 12.0°
Efficiency 84 %
Peak intensity 9.900 cd/lm
Required components:
C12292_LENA-STD-BASE-MEZ



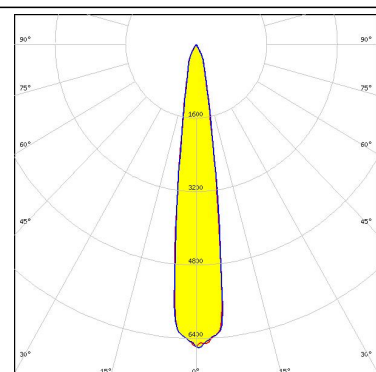
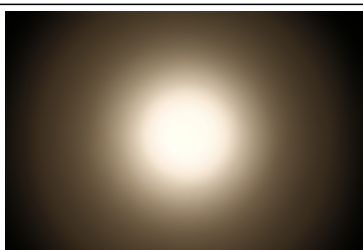
LED LUXEON CoB 1211
FWHM 17.0°
Efficiency 80 %
Peak intensity 5.000 cd/lm
Required components:
C13867_LENA-STD-BASE-VERO29
Bender Wirth: 431 Typ L3



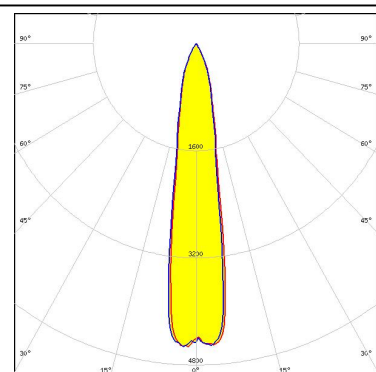
PHOTOMETRIC DATA (MEASURED):



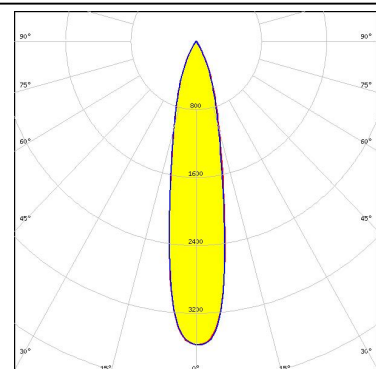
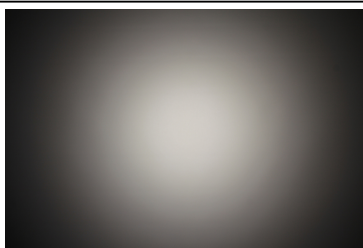
LED LUXEON CoB 1211
FWHM 16.0°
Efficiency 85 %
Peak intensity 6.600 cd/lm
Required components:
C13867_LENA-STD-BASE-VERO29
Bender Wirth: 431 Typ L3



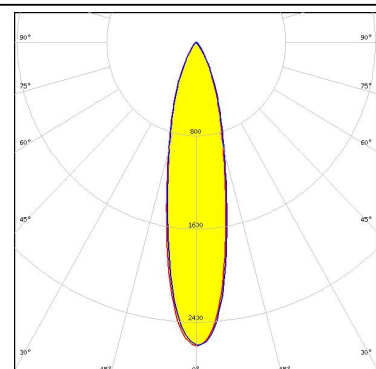
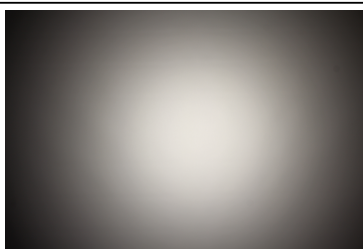
LED LUXEON CoB 1216/1812
FWHM 18.0°
Efficiency 79 %
Peak intensity 4.540 cd/lm
Required components:
A.A.G. STUCCHI: 8102/G2 + S-8000/12



LED LUXEON CoB 1216/1812
FWHM 21.0°
Efficiency 80 %
Peak intensity 3.600 cd/lm
Required components:
C12692_LENA-STD-BASE-CLL040
C11996_LENA-LENS



LED LUXEON CoB 1216/1812
FWHM 23.0°
Efficiency 74 %
Peak intensity 2.600 cd/lm
Required components:
A.A.G. STUCCHI: 8102/G2 + S-8000/12



PHOTOMETRIC DATA (MEASURED):



LED CDM-14 (Dim-To-Warm)

FWHM 13.0°

Efficiency 82 %

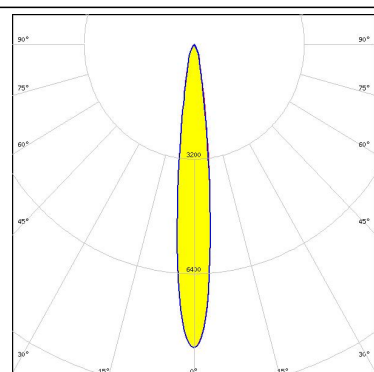
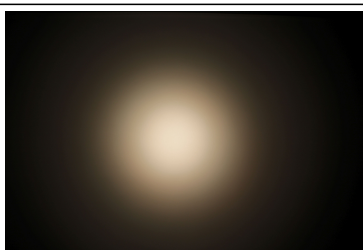
Peak intensity 8.500 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

C11996_LENA-LENS

Bender Wirth: 491 Typ L2



LED CDM-18 (Dim-To-Warm)

FWHM 16.0°

Efficiency 82 %

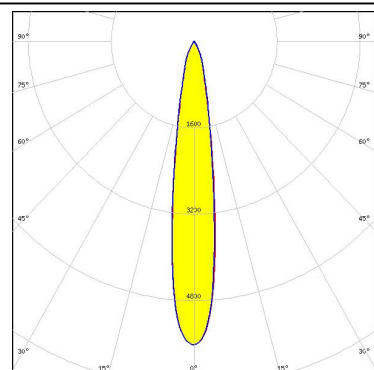
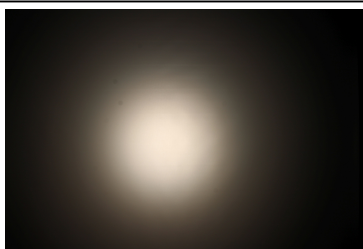
Peak intensity 5.600 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

C11996_LENA-LENS

Bender Wirth: 491 Typ L2



LED CDM-9 (Dim-To-Warm)

FWHM 10.0°

Efficiency 81 %

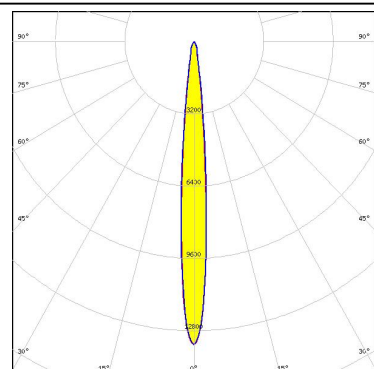
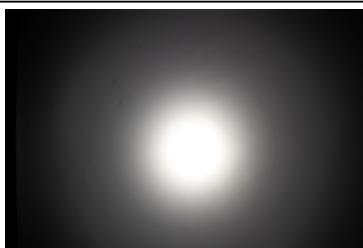
Peak intensity 13.400 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

C11996_LENA-LENS

Bender Wirth: 490 Typ L1



LED CTM-14 (Tunable White)

FWHM 10.0°

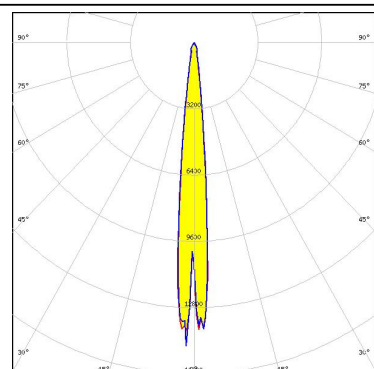
Efficiency 86 %

Peak intensity 14.900 cd/lm

Required components:

C13867_LENA-STD-BASE-VERO29

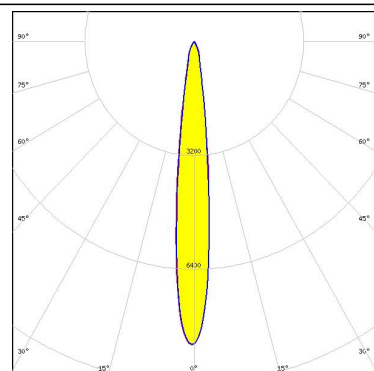
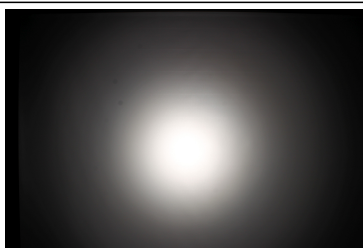
Bender Wirth: 442 Typ L3



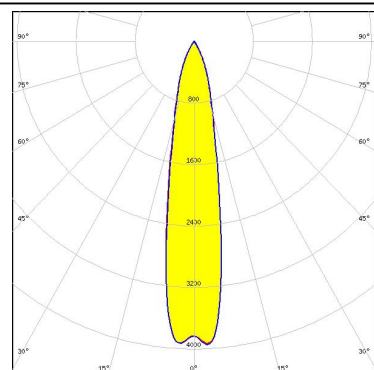
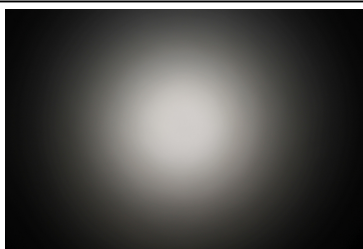
PHOTOMETRIC DATA (MEASURED):



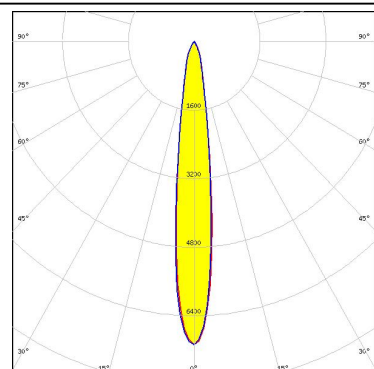
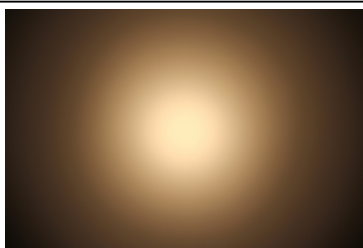
LED CTM-14 (Tunable White)
FWHM 13.0°
Efficiency 81 %
Peak intensity 8.600 cd/lm
Required components:
C13867_LENA-STD-BASE-VERO29
C12606_LENINA-DL
Bender Wirth: 442 Typ L3



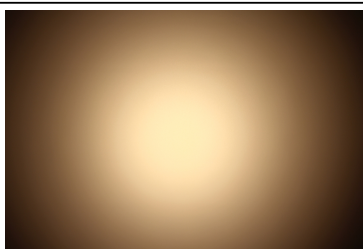
LED CTM-22 (Tunable White)
FWHM 20.0°
Efficiency 81 %
Peak intensity 3.950 cd/lm
Required components:
C13867_LENA-STD-BASE-VERO29
C11996_LENA-LENS
Bender Wirth: 494 Typ L3



LED CXM-14
FWHM 14.0°
Efficiency 80 %
Peak intensity 7.100 cd/lm
Required components:
C12691_LENA-STD-BASE-CLL030
C11996_LENA-LENS



LED CXM-22
FWHM 21.0°
Efficiency 80 %
Peak intensity 3.800 cd/lm
Required components:
C12692_LENA-STD-BASE-CLL040
C11996_LENA-LENS



PHOTOMETRIC DATA (MEASURED):



LED COB J-Type

FWHM 12.0°

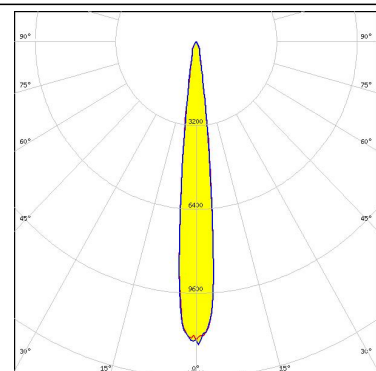
Efficiency 87 %

Peak intensity 11.600 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

Bender Wirth: 463 Typ L2



LED COB J-Type

FWHM 14.0°

Efficiency 82 %

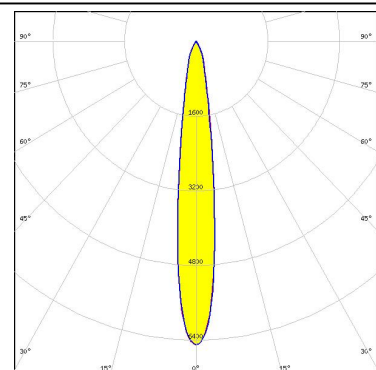
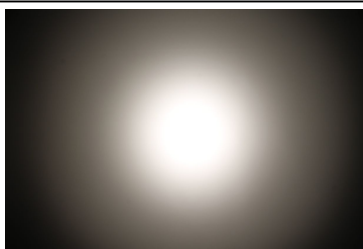
Peak intensity 6.500 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

C11996_LENA-LENS

Bender Wirth: 463 Typ L2



LED COB L-Type (LES 11)

FWHM 11.0°

Efficiency 82 %

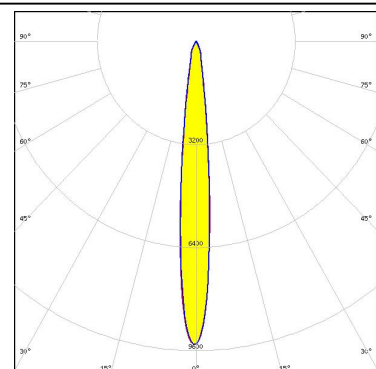
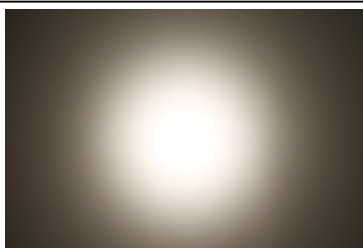
Peak intensity 9.400 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

C11996_LENA-LENS

Bender Wirth: 438 Typ L1



LED COB L-Type (LES 11)

FWHM 9.0°

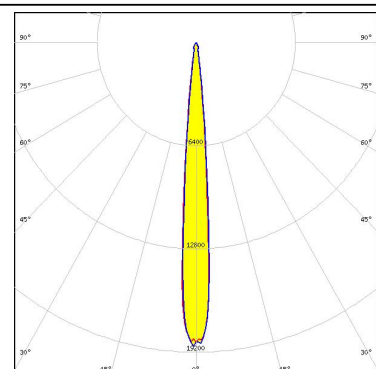
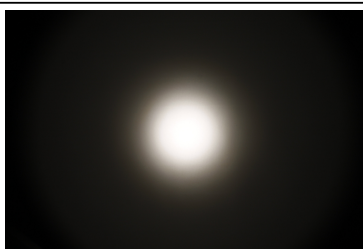
Efficiency 87 %

Peak intensity 18.800 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

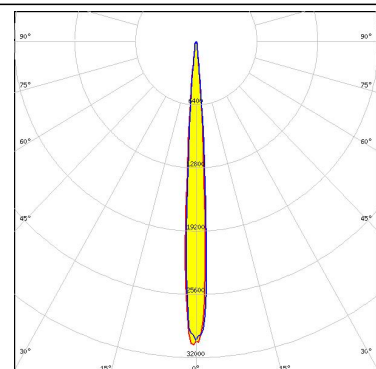
Bender Wirth: 438 Typ L1



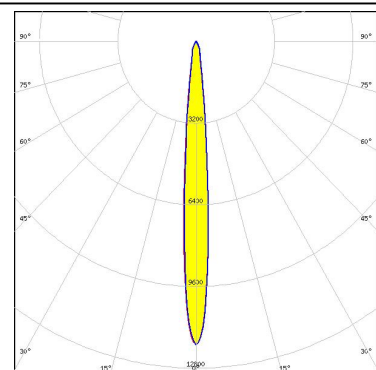
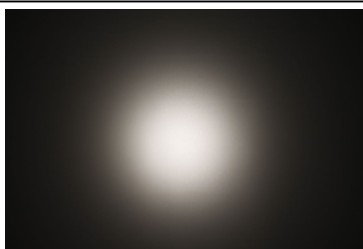
PHOTOMETRIC DATA (MEASURED):



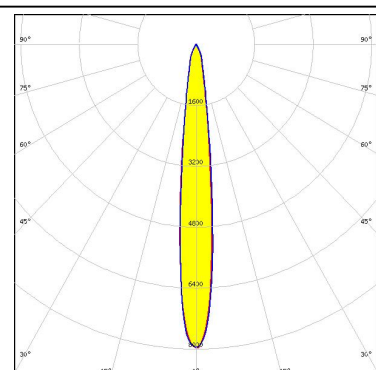
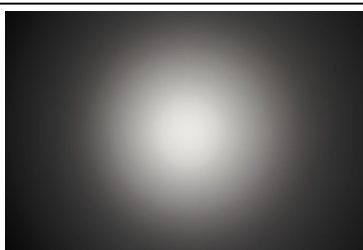
LED COB L-Type (LES 9)
 FWHM 7.0°
 Efficiency 89 %
 Peak intensity 30.700 cd/lm
 Required components:
 C13868_LENA-STD-BASE-VERO13-18
 Bender Wirth: 438 Typ L1



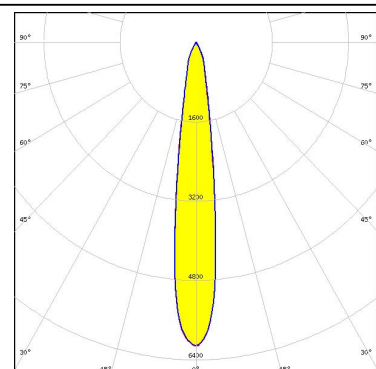
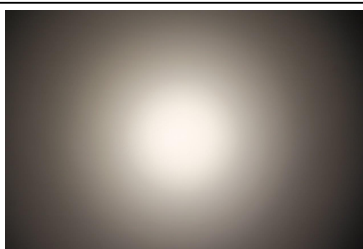
LED COB L-Type (LES 9)
 FWHM 9.0°
 Efficiency 83 %
 Peak intensity 11.900 cd/lm
 Required components:
 C13868_LENA-STD-BASE-VERO13-18
 C11996_LENA-LENS
 Bender Wirth: 438 Typ L1



LED Soleriq S13
 FWHM 12.0°
 Efficiency 80 %
 Peak intensity 8.000 cd/lm
 Required components:
 C13868_LENA-STD-BASE-VERO13-18
 C11996_LENA-LENS
 Bender Wirth: 437 Typ L1



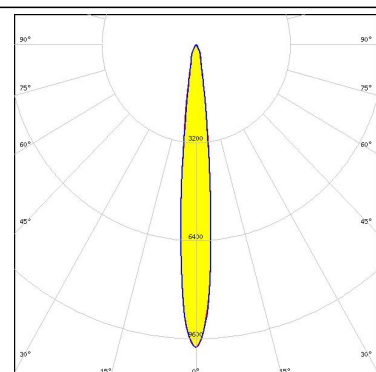
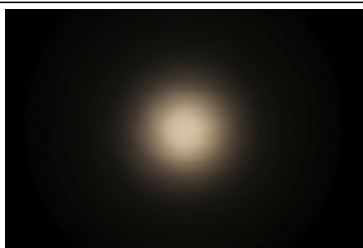
LED Soleriq S19
 FWHM 15.0°
 Efficiency 80 %
 Peak intensity 6.100 cd/lm
 Required components:
 C13867_LENA-STD-BASE-VERO29
 Bender Wirth: 462 Typ L3



PHOTOMETRIC DATA (MEASURED):

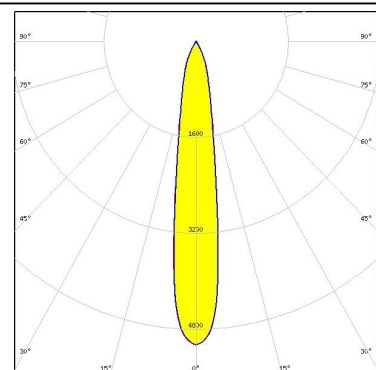
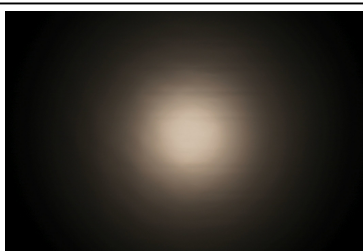
PHILIPS

LED Fortimo SLM L13 CoB
FWHM 11.0°
Efficiency 81 %
Peak intensity 9.900 cd/lm
Required components:
C12292_LENA-STD-BASE-MEZ
C11996_LENA-LENS



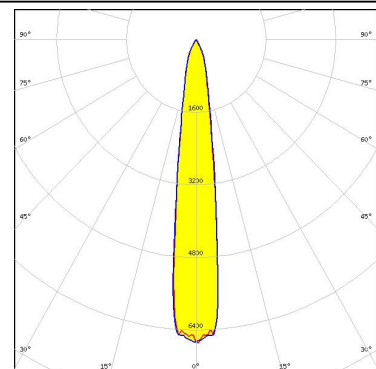
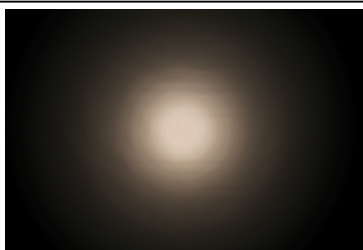
PHILIPS

LED Fortimo SLM L19 CoB
FWHM 16.0°
Efficiency 81 %
Peak intensity 5.100 cd/lm
Required components:
C12692_LENA-STD-BASE-CLL040
C11996_LENA-LENS



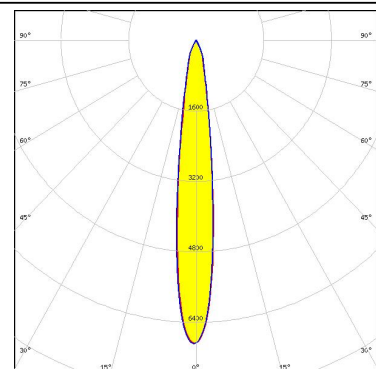
PHILIPS

LED Fortimo SLM L19 CoB
FWHM 15.0°
Efficiency 87 %
Peak intensity 6.800 cd/lm
Required components:
C12692_LENA-STD-BASE-CLL040



SAMSUNG

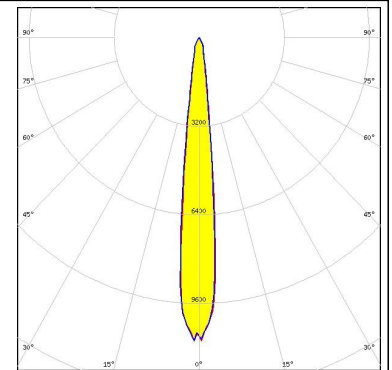
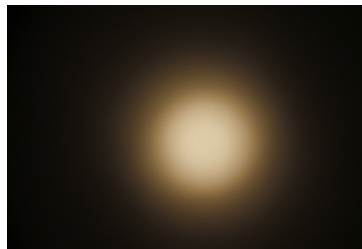
LED COB D Series LES 14.5 mm
FWHM 14.0°
Efficiency 80 %
Peak intensity 6.900 cd/lm
Required components:
C12691_LENA-STD-BASE-CLL030
C11996_LENA-LENS



PHOTOMETRIC DATA (MEASURED):

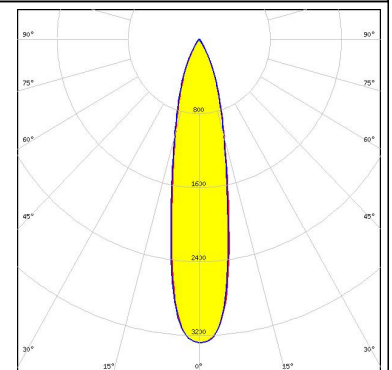
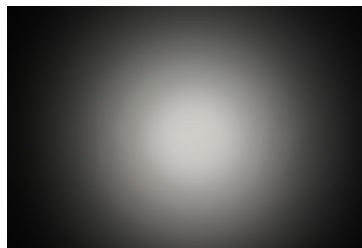
SAMSUNG

LED COB D Series LES 14.5 mm
 FWHM 12.0°
 Efficiency 85 %
 Peak intensity 11.000 cd/lm
 Required components:
 C12691_LENA-STD-BASE-CLL030

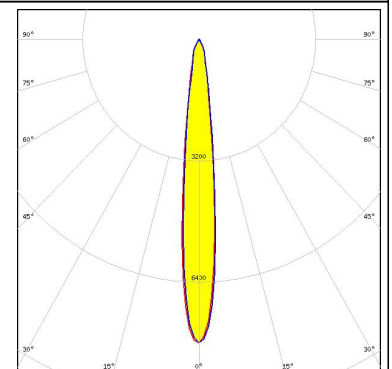
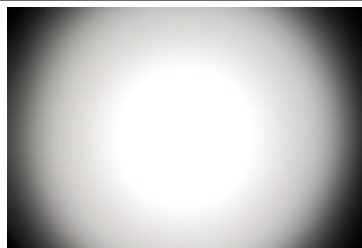


SAMSUNG

LED COB D Series LES 22 mm
 FWHM 22.0°
 Efficiency 80 %
 Peak intensity 3.300 cd/lm
 Required components:
 C12692_LENA-STD-BASE-CLL040
 C11996_LENA-LENS



LED ZC12/18
 FWHM 12.0°
 Efficiency 80 %
 Peak intensity 8.000 cd/lm
 Required components:
 C12691_LENA-STD-BASE-CLL030
 C11996_LENA-LENS



SHARP

LED Mega Zenigata (GW5DGC)
 FWHM 14.0°
 Efficiency 80 %
 Peak intensity cd/lm
 Required components:
 C12292_LENA-STD-BASE-MEZ
 C11996_LENA-LENS

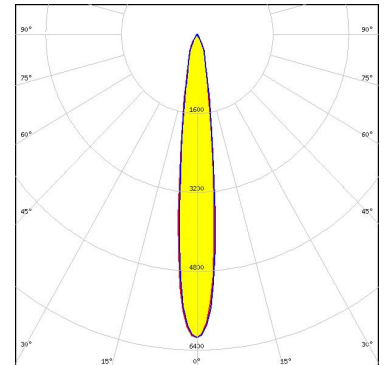
PHOTOMETRIC DATA (MEASURED):

SHARP

LED Mega Zenigata (GW5DGC)
FWHM 13.5°
Efficiency 85 %
Peak intensity cd/lm
Required components:
C12292_LENA-STD-BASE-MEZ

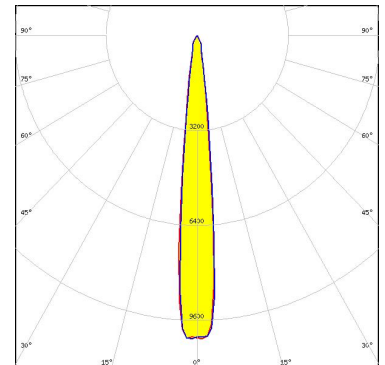
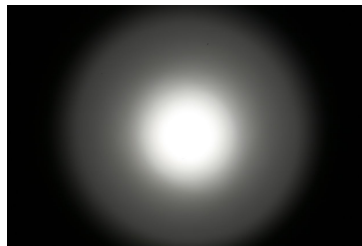
SHARP

LED Mega Zenigata (GW6DME)
FWHM 14.0°
Efficiency 77 %
Peak intensity 6.150 cd/lm
Required components:
C12292_LENA-STD-BASE-MEZ
C11996_LENA-LENS



SHARP

LED Mega Zenigata (GW6DME)
FWHM 12.0°
Efficiency 83 %
Peak intensity 10.230 cd/lm
Required components:
C12292_LENA-STD-BASE-MEZ



PHOTOMETRIC DATA (SIMULATED):



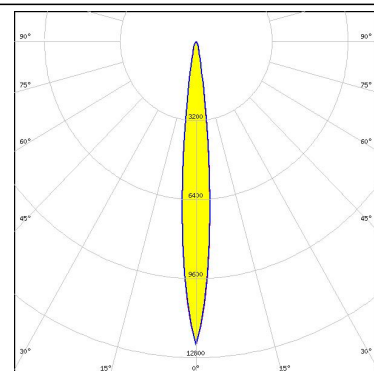
LED V10 Gen7
FWHM 11.0°
Efficiency 79 %
Peak intensity 12.280 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

C11996_LENA-LENS

Bender Wirth: 486 Typ L1

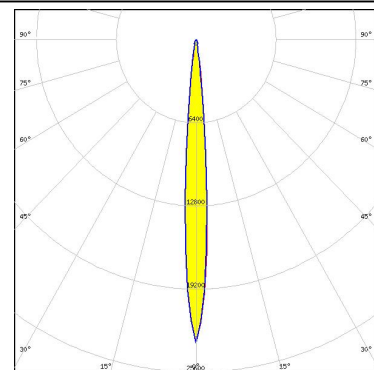


LED V10 Gen7
FWHM 9.0°
Efficiency 90 %
Peak intensity 22.340 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

Bender Wirth: 486 Typ L1

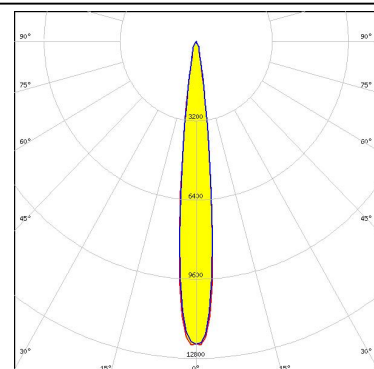


LED V13 Gen7
FWHM 12.0°
Efficiency 89 %
Peak intensity 12.270 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

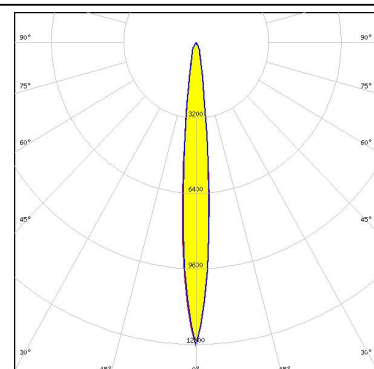
Bender Wirth: 477 Typ L1



LED V13 Gen7
FWHM 10.0°
Efficiency 88 %
Peak intensity 12.900 cd/lm

Required components:

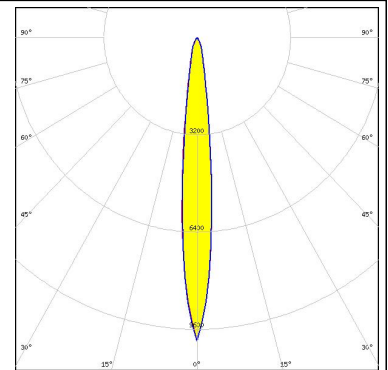
IDEAL: 50-2103CT + 50-2100LN



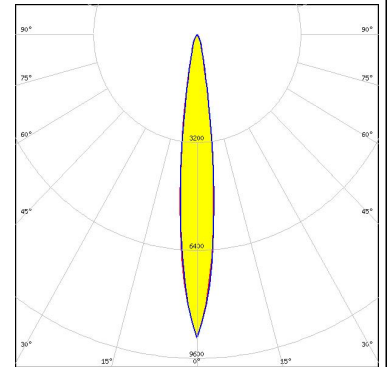
PHOTOMETRIC DATA (SIMULATED):



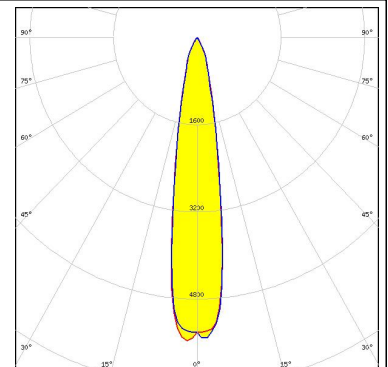
LED V13 Gen7
FWHM 11.0°
Efficiency 85 %
Peak intensity 9.900 cd/lm
Required components:
IDEAL: 50-2103CT + 50-2100LN



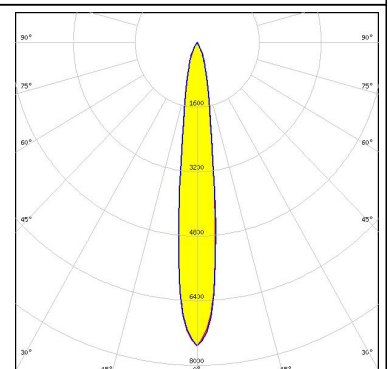
LED V13 Gen7
FWHM 13.0°
Efficiency 81 %
Peak intensity 9.000 cd/lm
Required components:
C13868_LENA-STD-BASE-VERO13-18
C11996_LENA-LENS
Bender Wirth: 477 Typ L1



LED V22 Gen7
FWHM 18.0°
Efficiency 90 %
Peak intensity 5.583 cd/lm
Required components:
C13867_LENA-STD-BASE-VERO29
Bender Wirth: 431 Typ L3



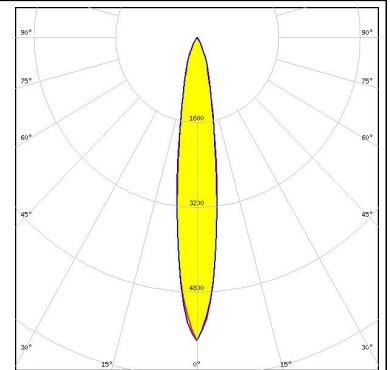
LED CXA/B 30xx
FWHM 14.0°
Efficiency 87 %
Peak intensity 7.500 cd/lm
Required components:
IDEAL: 50-2234C + 50-2100LN



PHOTOMETRIC DATA (SIMULATED):



LED CXA/B 30xx
FWHM 16.0°
Efficiency 80 %
Peak intensity 5.700 cd/lm
Required components:
IDEAL: 50-2234C + 50-2100LN



LED CXM-14
FWHM 12.0°
Efficiency 85 %
Peak intensity 11.200 cd/lm
Required components:
C13868_LENA-STD-BASE-VERO13-18
Bender Wirth: 433 Typ L1



LED CXM-14
FWHM 14.0°
Efficiency 80 %
Peak intensity 6.700 cd/lm
Required components:
C13868_LENA-STD-BASE-VERO13-18
C11996_LENA-LENS
Bender Wirth: 433 Typ L1



LED CXM-9
FWHM 10.0°
Efficiency 80 %
Peak intensity 11.500 cd/lm
Required components:
C13868_LENA-STD-BASE-VERO13-18
C11996_LENA-LENS
Bender Wirth: 434 Typ L1

PHOTOMETRIC DATA (SIMULATED):



LED CXM-9
FWHM 8.0°
Efficiency 85 %
Peak intensity 26.500 cd/lm

Required components:

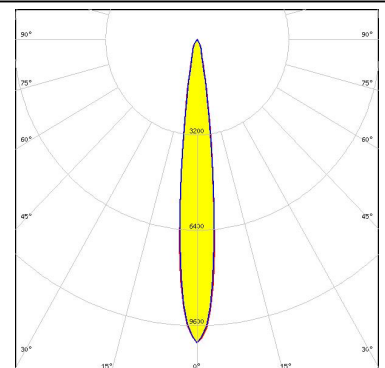
C13868_LENA-STD-BASE-VERO13-18
Bender Wirth: 434 Typ L1



LED Soleriq S15
FWHM 13.0°
Efficiency 88 %
Peak intensity 10.180 cd/lm

Required components:

C12691_LENA-STD-BASE-CLL030



LED ZC12/18
FWHM 14.0°
Efficiency 80 %
Peak intensity 6.700 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18
C11996_LENA-LENS
Bender Wirth: 433 Typ L1



LED ZC12/18
FWHM 12.0°
Efficiency 85 %
Peak intensity 11.200 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18
Bender Wirth: 433 Typ L1

PHOTOMETRIC DATA (SIMULATED):

 SEOUL SEMICONDUCTOR	
LED	ZC4/6
FWHM	10.0°
Efficiency	80 %
Peak intensity	11.500 cd/lm
Required components:	
C13868_LENA-STD-BASE-VERO13-18	
C11996_LENA-LENS	
Bender Wirth: 434 Typ L1	

 SEOUL SEMICONDUCTOR	
LED	ZC4/6
FWHM	8.0°
Efficiency	85 %
Peak intensity	26.500 cd/lm
Required components:	
C13868_LENA-STD-BASE-VERO13-18	
Bender Wirth: 434 Typ L1	

GENERAL INFORMATION:

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

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

MATERIALS:

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

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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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