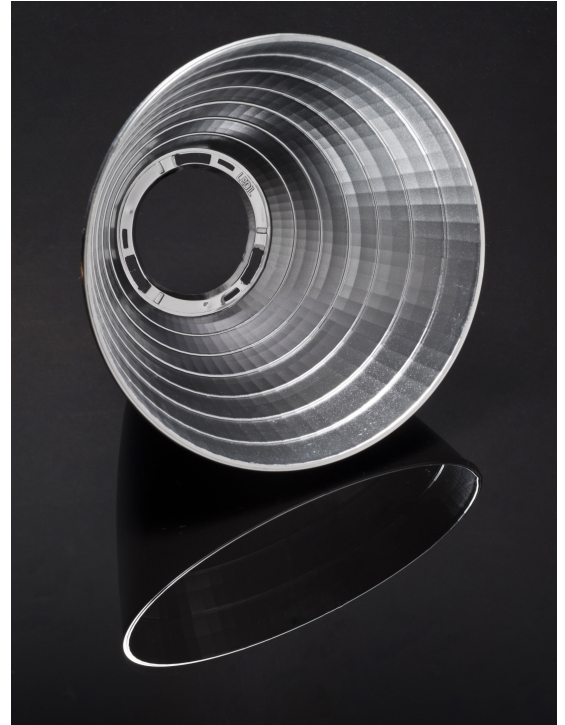


ANGELA-M

~30° medium beam

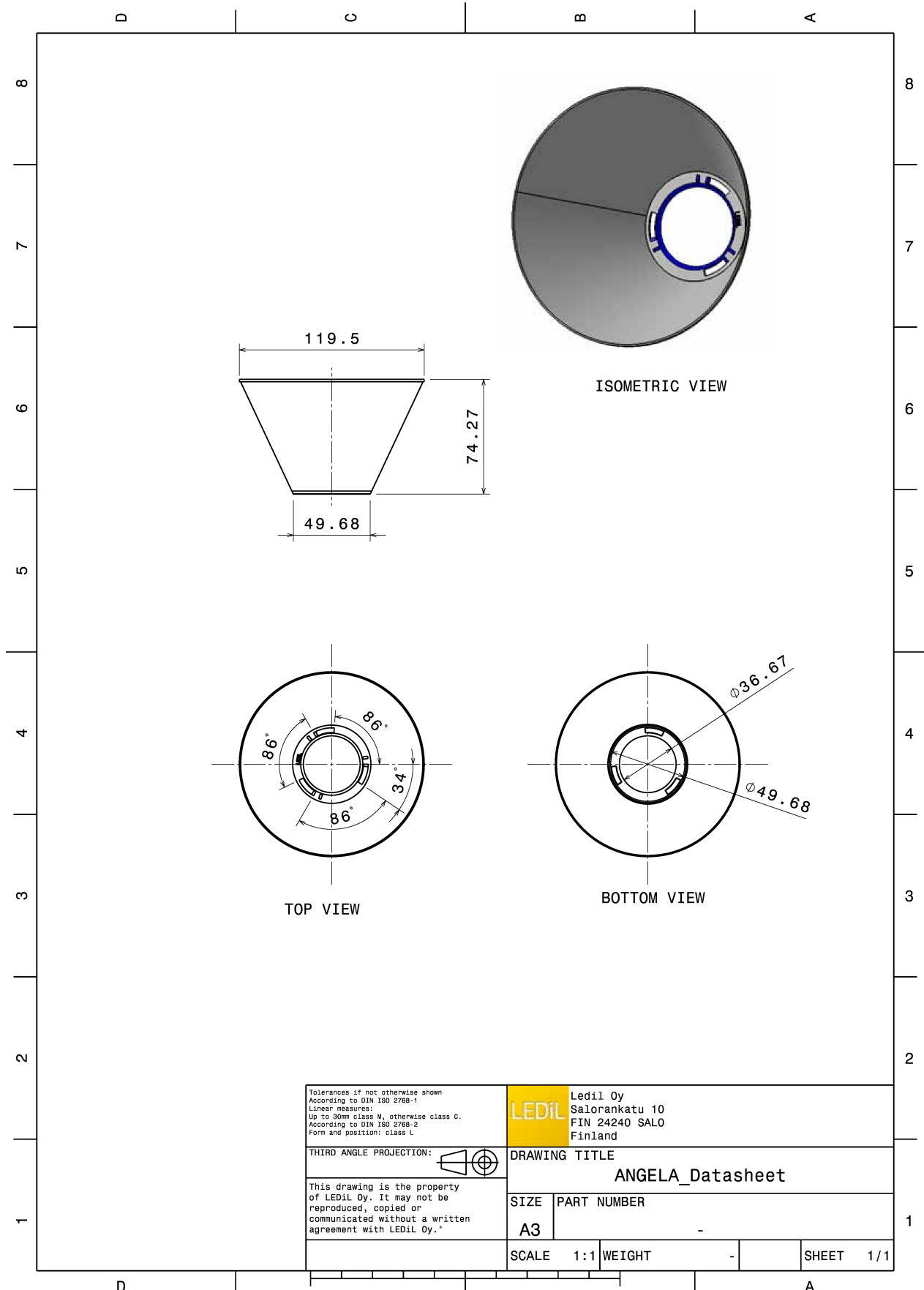
TECHNICAL SPECIFICATIONS:

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	180 pcs
ROHS compliant	yes ⓘ


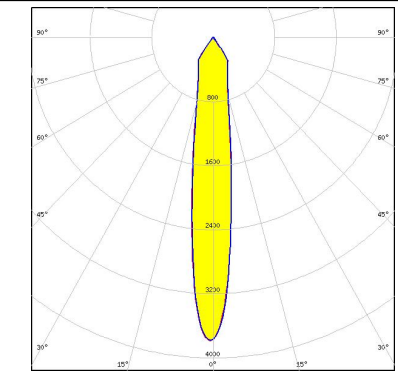

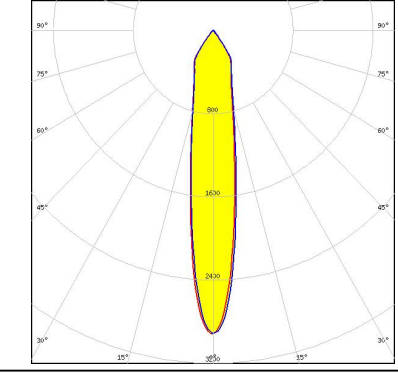
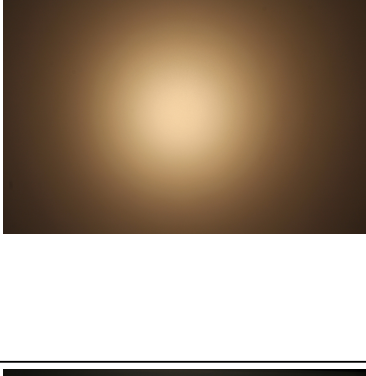


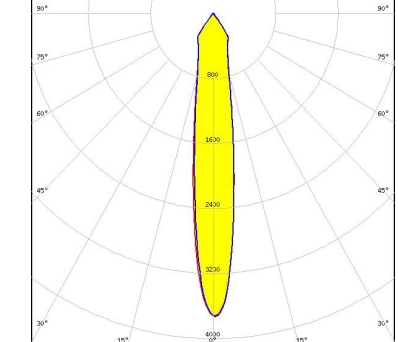


MATERIAL SPECIFICATIONS:


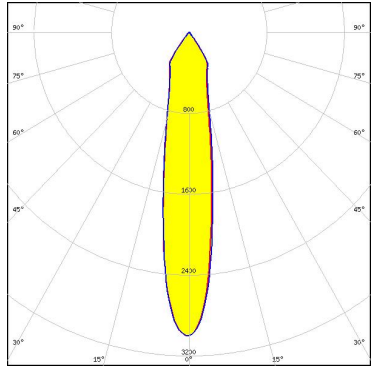
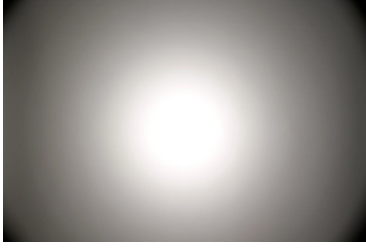
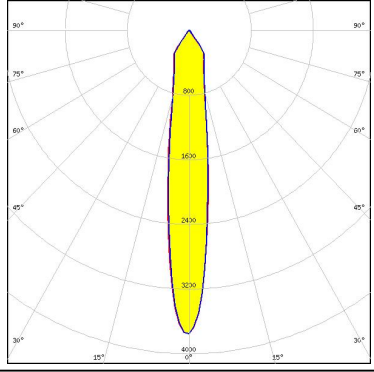
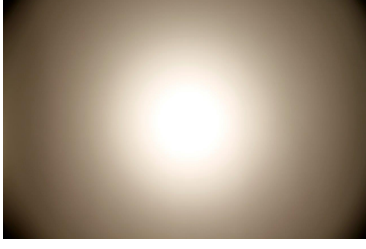
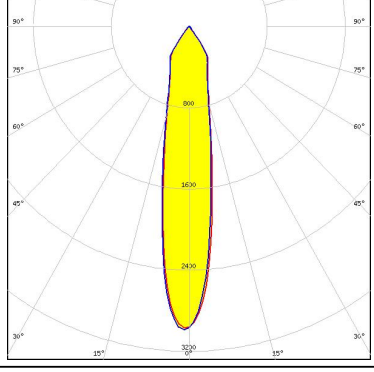
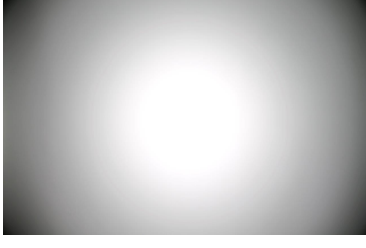
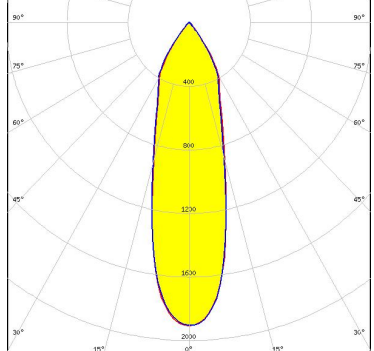
Component	Type	Material	Colour	Coating
ANGELA-M	Reflector	PC	metal	HMDS




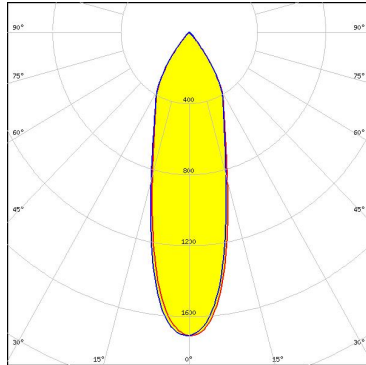

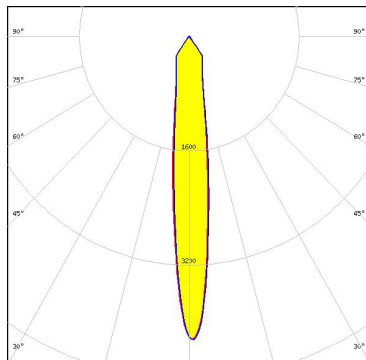

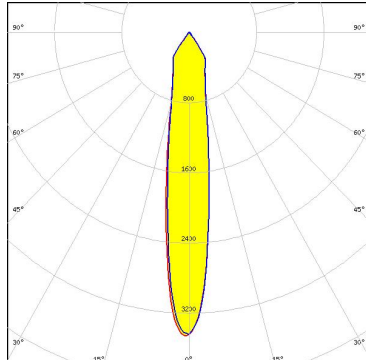
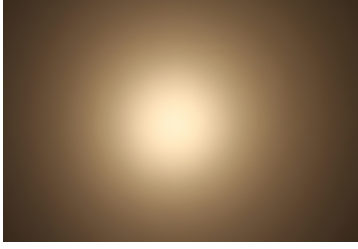
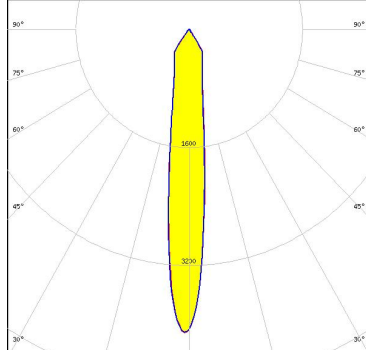
PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED V13 Gen7 FWHM 16.0° Efficiency 84 % Peak intensity 3.800 cd/lm Required components: TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p>bridgelux.</p> <p>LED V13 Gen7 FWHM 18.0° Efficiency 80 % Peak intensity 2.900 cd/lm Required components: F13671_ANGE-RZ-LENS TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p>bridgelux.</p> <p>LED V15 Gen6 FWHM 17.0° Efficiency 92 % Peak intensity 3.900 cd/lm Required components: C13658_CLAMP-VERO13-18 Bender Wirth: 456 Typ L2</p>		
<p>bridgelux.</p> <p>LED Vero SE 13 FWHM 16.0° Efficiency 84 % Peak intensity 3.700 cd/lm Required components: C16402_CLAMP-VEROSE-13-18</p>		

PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED Vero SE 18</p> <p>FWHM 19.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 3.000 cd/lm</p> <p>Required components:</p> <p> C16402_CLAMP-VEROSE-13-18</p>		
<p>bridgelux.</p> <p>LED VERO13</p> <p>FWHM 16.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 3.600 cd/lm</p> <p>Required components:</p> <p> C13658_CLAMP-VERO13-18</p>		
<p>bridgelux.</p> <p>LED VERO18</p> <p>FWHM 19.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 3.000 cd/lm</p> <p>Required components:</p> <p> C13658_CLAMP-VERO13-18</p>		
<p>bridgelux.</p> <p>LED VERO29</p> <p>FWHM 29.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 1.900 cd/lm</p> <p>Required components:</p> <p> C13584_CLAMP-VERO29</p>		

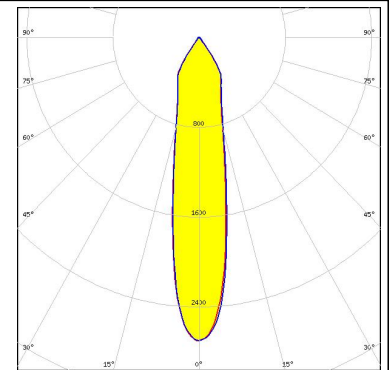
PHOTOMETRIC DATA (MEASURED):

<p>bridgelux</p> <p>LED VERO29</p> <p>FWHM 30.0°</p> <p>Efficiency 79 %</p> <p>Peak intensity 1.710 cd/lm</p> <p>Required components:</p> <p>C13584_CLAMP-VERO29</p> <p>F13671_ANGE-RZ-LENS</p>		
<h3>CITIZEN</h3> <p>LED CLL02x/CLU02x (LES10)</p> <p>FWHM 14.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 4.300 cd/lm</p> <p>Required components:</p> <p>C13658_CLAMP-VERO13-18</p> <p>Bender Wirth: 434 Typ L1</p>		
<h3>CITIZEN</h3> <p>LED CLL03x/CLU03x</p> <p>FWHM 17.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 3.400 cd/lm</p> <p>Required components:</p> <p>C13658_CLAMP-VERO13-18</p> <p>Bender Wirth: 433 Typ L1</p>		
<h3>CITIZEN</h3> <p>LED CLL03x/CLU03x</p> <p>FWHM 14.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 4.100 cd/lm</p> <p>Required components:</p> <p>IDEAL: 50-2103CT + 50-2100AN</p>		

PHOTOMETRIC DATA (MEASURED):

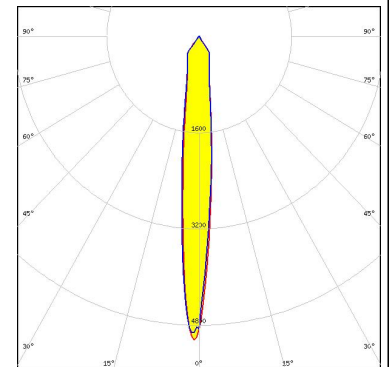
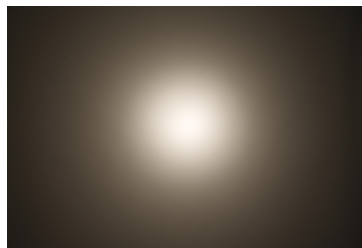
CITIZEN

LED CLL04x/CLU04x
 FWHM 21.0°
 Efficiency 84 %
 Peak intensity 2.700 cd/lm
 Required components:
 C13584_CLAMP-VERO29
 Bender Wirth: 431 Typ L3



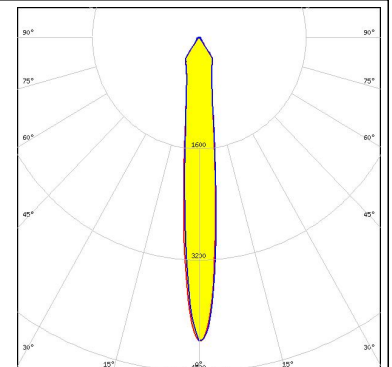
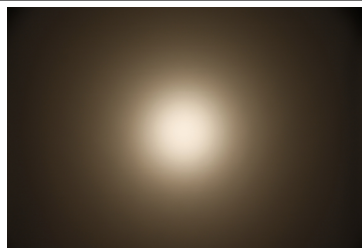
CITIZEN

LED CLU700/701
 FWHM 12.0°
 Efficiency 83 %
 Peak intensity 5.200 cd/lm
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 434 Typ L1



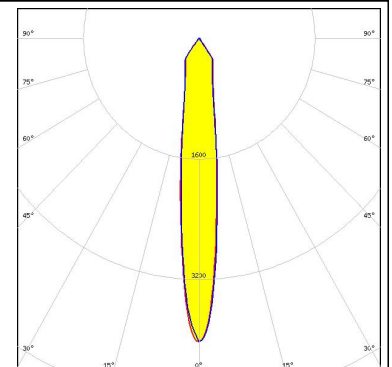
CITIZEN

LED CLU720/721
 FWHM 12.0°
 Efficiency 87 %
 Peak intensity 4.400 cd/lm
 Required components:
 IDEAL: 50-2103CT + 50-2100AN



CITIZEN

LED CLU720/721
 FWHM 14.0°
 Efficiency 83 %
 Peak intensity 4.000 cd/lm
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 433 Typ L1



PHOTOMETRIC DATA (MEASURED):

CITIZEN

LED CLU720/721

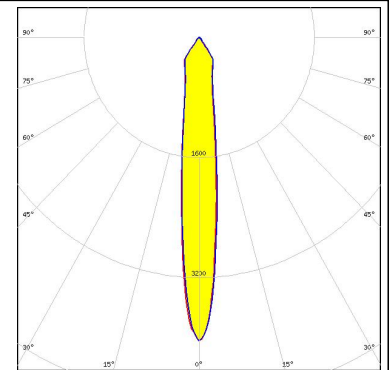
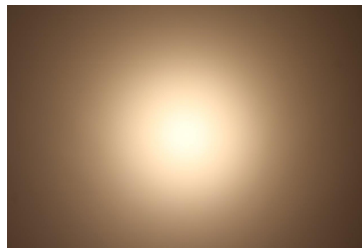
FWHM 14.0°

Efficiency 87 %

Peak intensity 4.000 cd/lm

Required components:

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



CITIZEN

LED CLU730/731

FWHM 15.0°

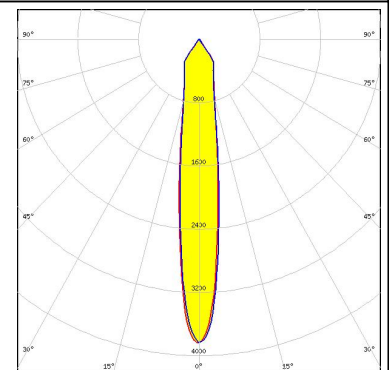
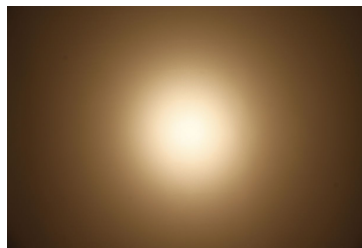
Efficiency 84 %

Peak intensity 3.800 cd/lm

Required components:

C13584_CLAMP-VERO29

Bender Wirth: 471 Typ L3



CREE

LED CMA2550

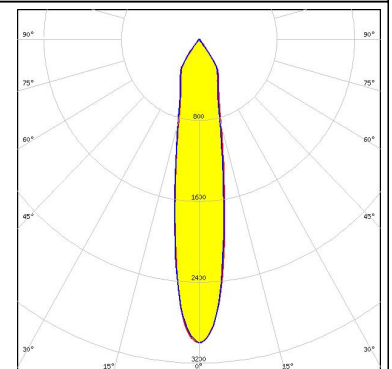
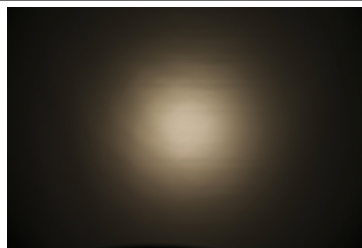
FWHM 19.0°

Efficiency 82 %

Peak intensity 3.000 cd/lm

Required components:

C14036_CLAMP_CXA25-30



CREE

LED CMA3090

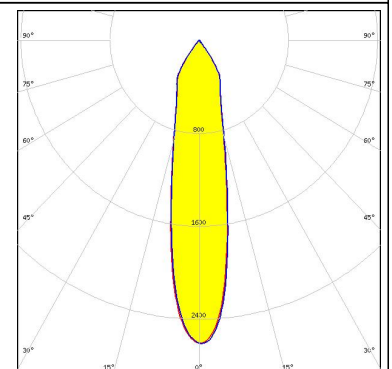
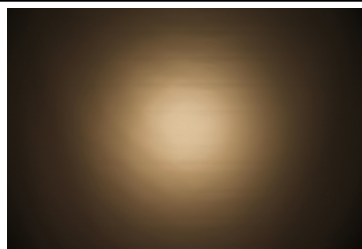
FWHM 22.0°

Efficiency 82 %

Peak intensity 2.600 cd/lm

Required components:

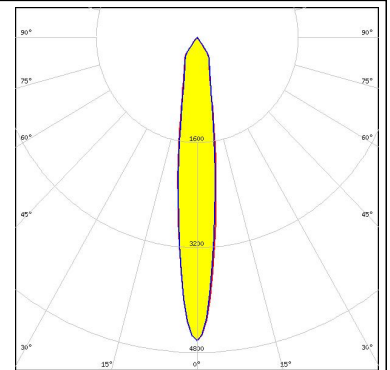
C14036_CLAMP_CXA25-30



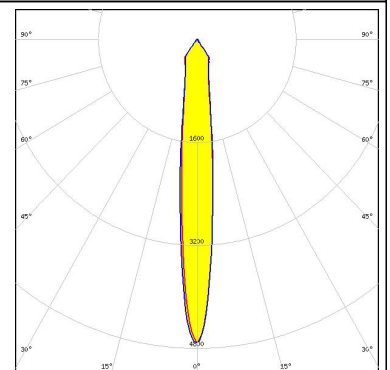
PHOTOMETRIC DATA (MEASURED):



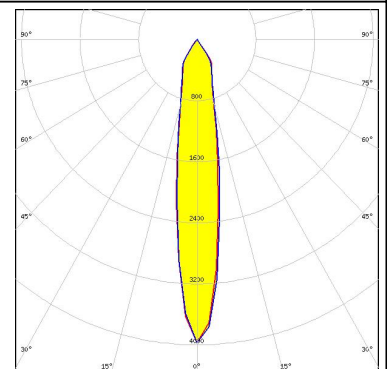
LED CXA/B 15xx
 FWHM 15.0°
 Efficiency 85 %
 Peak intensity 4.600 cd/lm
 Required components:
 C14123_CLAMP-CXA15-18



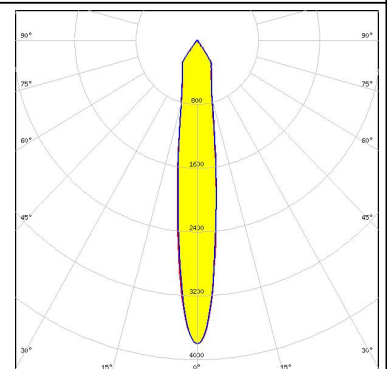
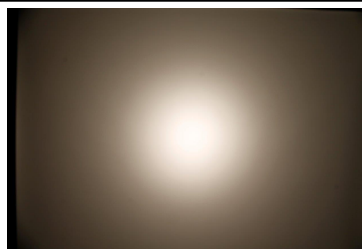
LED CXA/B 15xx
 FWHM 13.0°
 Efficiency 84 %
 Peak intensity 4.700 cd/lm
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 441 Typ L1



LED CXA/B 1816 & CXA/B 1820 & CXA 1850
 FWHM 17.0°
 Efficiency 85 %
 Peak intensity 4.000 cd/lm
 Required components:
 C14123_CLAMP-CXA15-18



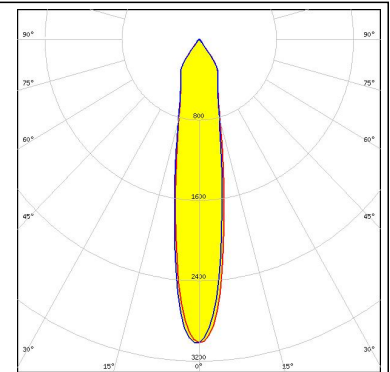
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
 FWHM 15.0°
 Efficiency 83 %
 Peak intensity 3.800 cd/lm
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 437 Typ L1



PHOTOMETRIC DATA (MEASURED):

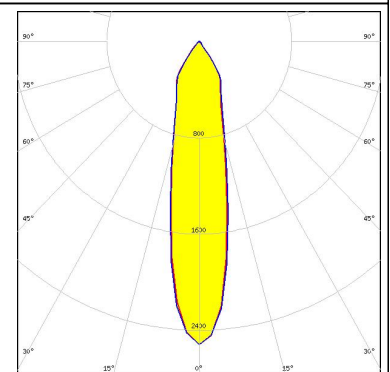
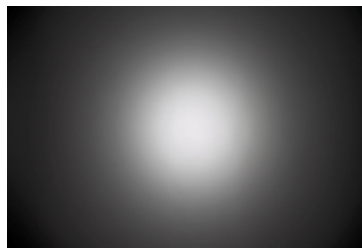
CREE 

LED CXA/B 25xx
 FWHM 19.0°
 Efficiency 85 %
 Peak intensity 3.000 cd/lm
 Required components:
 C14036_CLAMP_CXA25-30



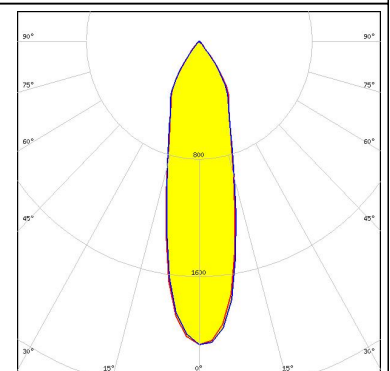
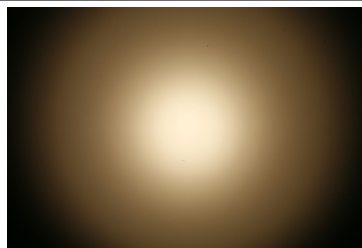
CREE 

LED CXA/B 30xx
 FWHM 22.0°
 Efficiency 84 %
 Peak intensity 2.520 cd/lm
 Required components:
 C14036_CLAMP_CXA25-30



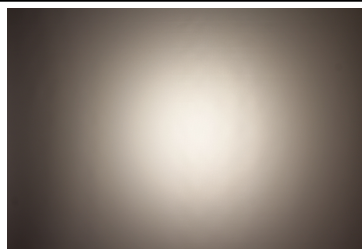
CREE 

LED CXA/B 3590
 FWHM 27.0°
 Efficiency 85 %
 Peak intensity 2.070 cd/lm
 Required components:
 IDEAL: 50-2303CR + 50-2300AN



EVERLIGHT

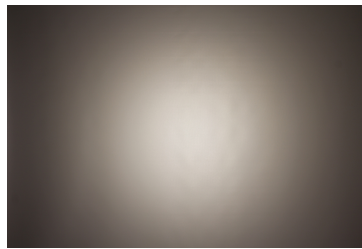
LED CHI3030 19W
 FWHM 21.0°
 Efficiency 83 %
 Peak intensity 2.400 cd/lm
 Required components:
 C13584_CLAMP-VERO29
 F13671_ANGE-RZ-LENS
 Bender Wirth: 468 Typ L3



PHOTOMETRIC DATA (MEASURED):

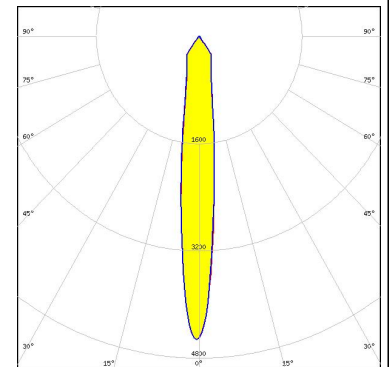
EVERLIGHT

LED CHI3030 29W
 FWHM 26.0°
 Efficiency 83 %
 Peak intensity 2.300 cd/lm
 Required components:
 C13584_CLAMP-VERO29
 F13671_ANGE-RZ-LENS
 Bender Wirth: 468 Typ L3



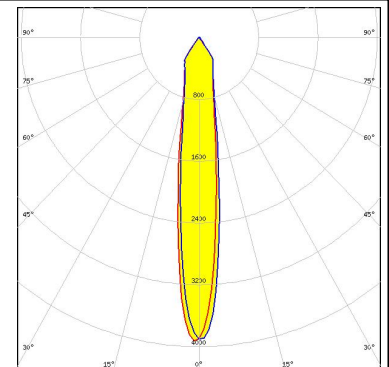
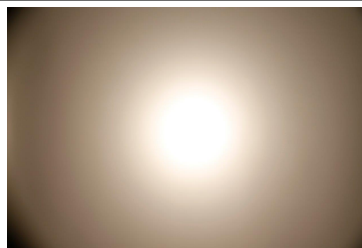
LUMILEDS

LED LUXEON CoB 1202/1203
 FWHM 13.0°
 Efficiency 84 %
 Peak intensity 4.500 cd/lm
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 438 Typ L1



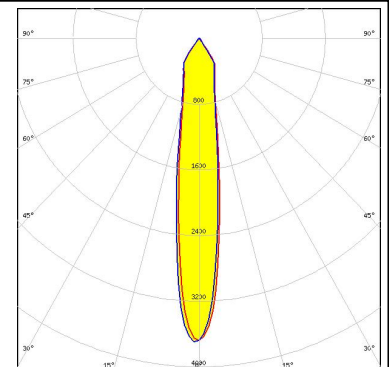
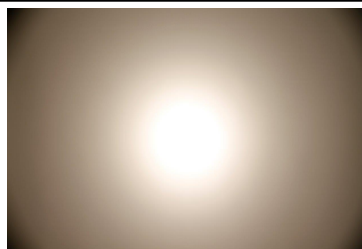
LUMILEDS

LED LUXEON CoB 1204/1205
 FWHM 15.0°
 Efficiency 85 %
 Peak intensity 3.930 cd/lm
 Required components:
 TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



LUMILEDS

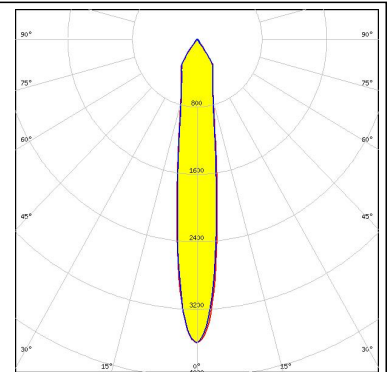
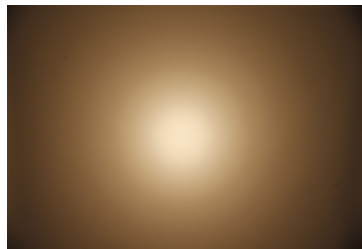
LED LUXEON CoB 1208
 FWHM 16.0°
 Efficiency 85 %
 Peak intensity 3.700 cd/lm
 Required components:
 TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



PHOTOMETRIC DATA (MEASURED):

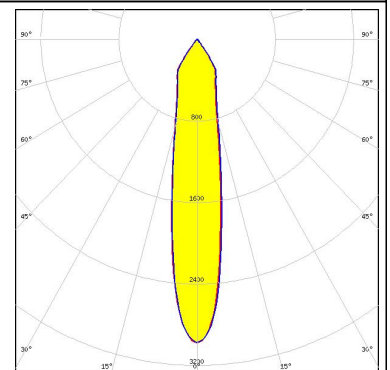
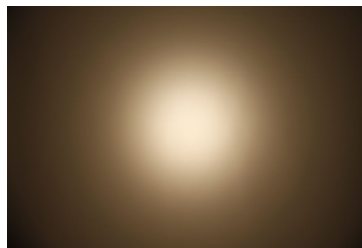
LUMILEDS

LED LUXEON CoB 1208
 FWHM 16.0°
 Efficiency 83 %
 Peak intensity 3.600 cd/lm
 Required components:
 IDEAL: 50-2100SH + 50-2100AN



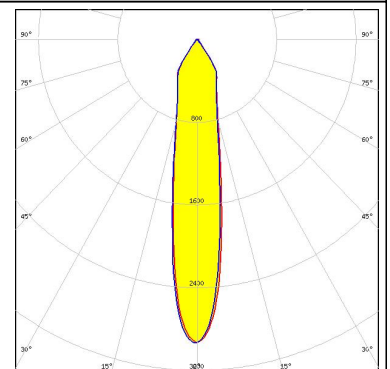
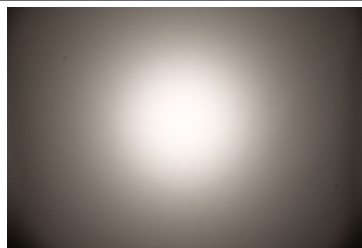
LUMILEDS

LED LUXEON CoB 1211
 FWHM 19.0°
 Efficiency 85 %
 Peak intensity 3.000 cd/lm
 Required components:
 C13584_CLAMP-VERO29
 Bender Wirth: 431 Typ L3



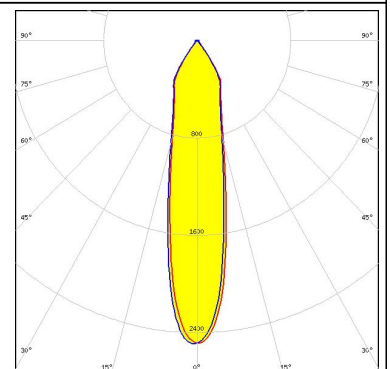
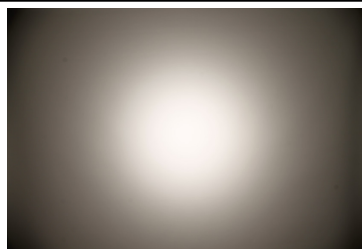
LUMILEDS

LED LUXEON CoB 1211
 FWHM 19.0°
 Efficiency 83 %
 Peak intensity 2.900 cd/lm
 Required components:
 IDEAL: 50-2204-CT + 50-2100AN



LUMILEDS

LED LUXEON CoB 1216/1812
 FWHM 22.0°
 Efficiency 83 %
 Peak intensity 2.500 cd/lm
 Required components:
 IDEAL: 50-2204-CT + 50-2100AN



PHOTOMETRIC DATA (MEASURED):

LUMILEDS

LED LUXEON K12

FWHM 17.0°

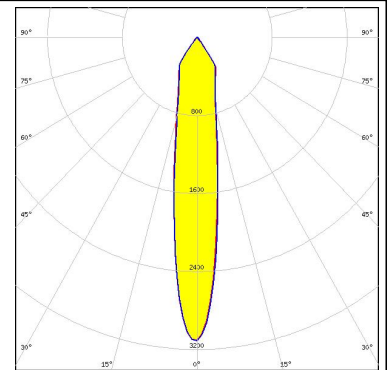
Efficiency 83 %

Peak intensity 3.000 cd/lm

Required components:

F13671_ANGE-RZ-LENS

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



LUMILEDS

LED LUXEON K16

FWHM 18.0°

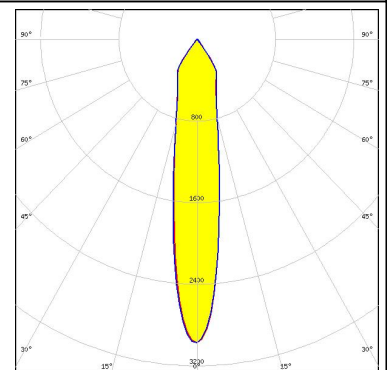
Efficiency 84 %

Peak intensity 3.000 cd/lm

Required components:

F13671_ANGE-RZ-LENS

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



LUMILEDS

LED LUXEON S2000

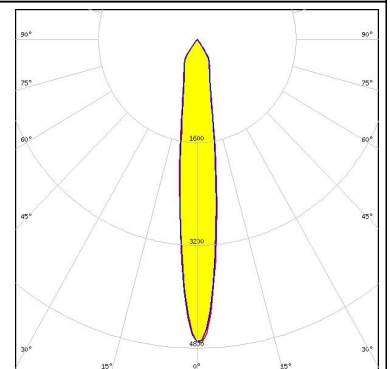
FWHM 15.0°

Efficiency 85 %

Peak intensity 4.700 cd/lm

Required components:

C13395_CLAMP-S2000



LUMILEDS

LED LUXEON S3000

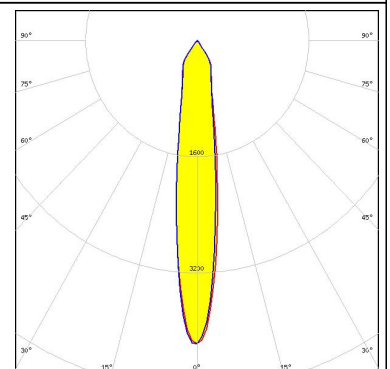
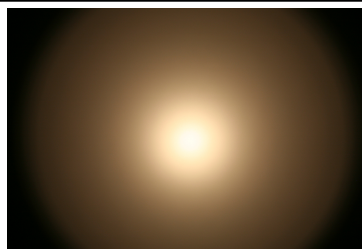
FWHM 16.0°

Efficiency 85 %

Peak intensity 4.200 cd/lm

Required components:

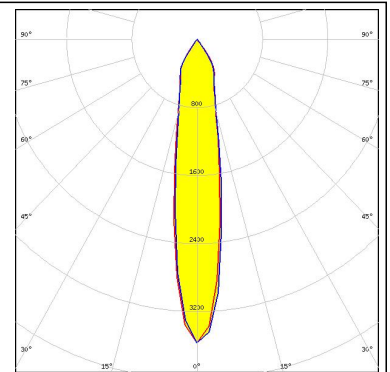
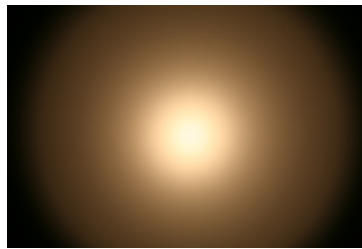
C13397_CLAMP-S3000



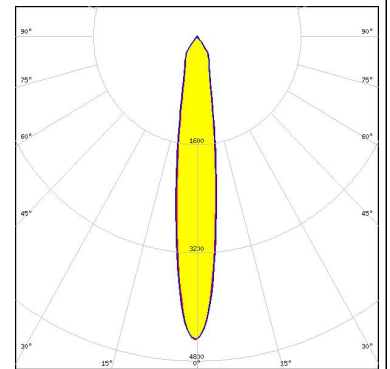
PHOTOMETRIC DATA (MEASURED):



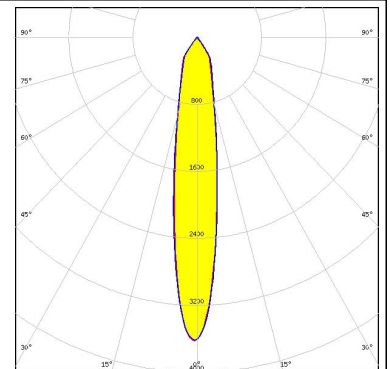
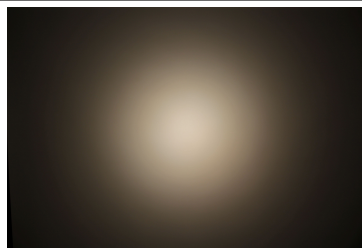
LED LUXEON S5000
 FWHM 19.0°
 Efficiency 86 %
 Peak intensity 3.600 cd/lm
 Required components:
 C13399_CLAMP-S5000



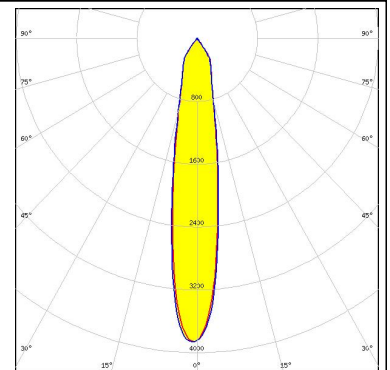
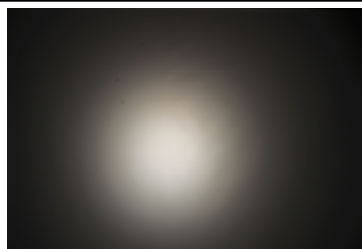
LED CDM-14 (Dim-To-Warm)
 FWHM 16.0°
 Efficiency 87 %
 Peak intensity 4.500 cd/lm
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 491 Typ L2




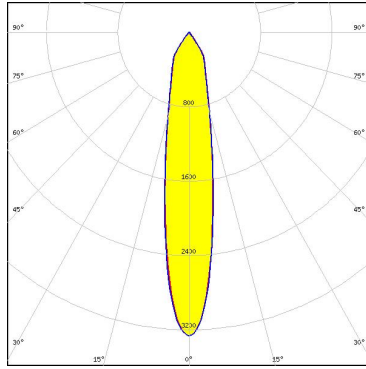
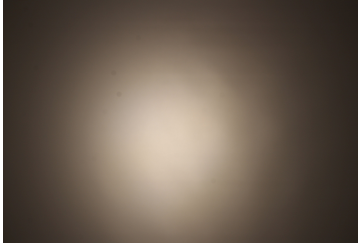
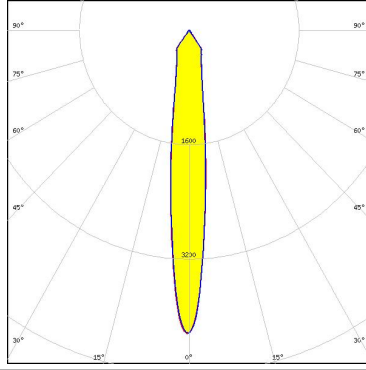

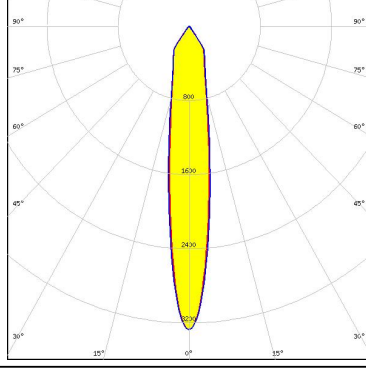

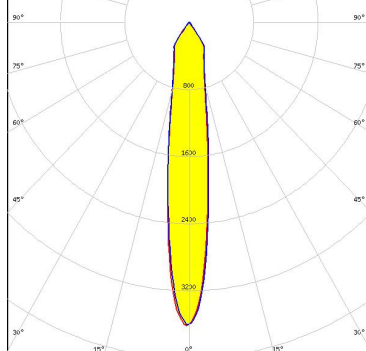
LED CDM-14 (Dim-To-Warm)
 FWHM 17.0°
 Efficiency 83 %
 Peak intensity 3.600 cd/lm
 Required components:
 C13658_CLAMP-VERO13-18
 F13671_ANGE-RZ-LENS
 Bender Wirth: 486 Typ L5



LED CDM-18 (Dim-To-Warm)
 FWHM 18.0°
 Efficiency 87 %
 Peak intensity 3.900 cd/lm
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 491 Typ L2



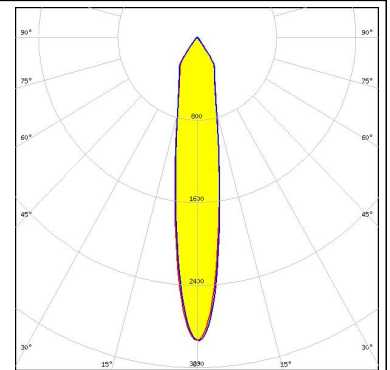
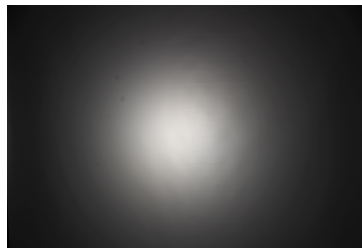
PHOTOMETRIC DATA (MEASURED):

<p>LUMINUS</p> <p>LED CDM-18 (Dim-To-Warm)</p> <p>FWHM 19.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 3.300 cd/lm</p> <p>Required components:</p> <p>C13658_CLAMP-VERO13-18</p> <p>F13671_ANGE-RZ-LENS</p> <p>Bender Wirth: 491 Typ L2</p>		
<p>LUMINUS</p> <p>LED CDM-9 (Dim-To-Warm)</p> <p>FWHM 14.0°</p> <p>Efficiency 82 %</p> <p>Peak intensity 4.200 cd/lm</p> <p>Required components:</p> <p>C13658_CLAMP-VERO13-18</p> <p>Bender Wirth: 490 Typ L1</p>		
<p>LUMINUS</p> <p>LED CDM-9 (Dim-To-Warm)</p> <p>FWHM 16.0°</p> <p>Efficiency 78 %</p> <p>Peak intensity 3.300 cd/lm</p> <p>Required components:</p> <p>C13658_CLAMP-VERO13-18</p> <p>F13671_ANGE-RZ-LENS</p> <p>Bender Wirth: 490 Typ L1</p>		
<p>LUMINUS</p> <p>LED CTM-14 (Tunable White)</p> <p>FWHM 16.0°</p> <p>Efficiency 82 %</p> <p>Peak intensity 3.600 cd/lm</p> <p>Required components:</p> <p>C13584_CLAMP-VERO29</p> <p>Bender Wirth: 442 Typ L3</p>		

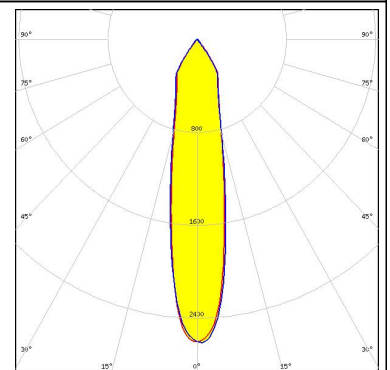
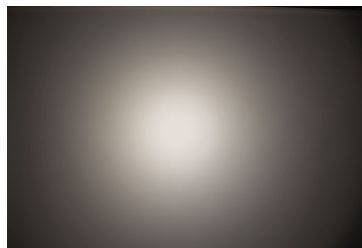
PHOTOMETRIC DATA (MEASURED):



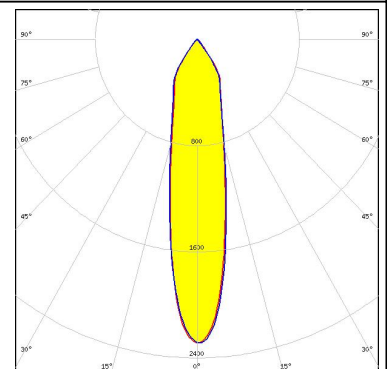
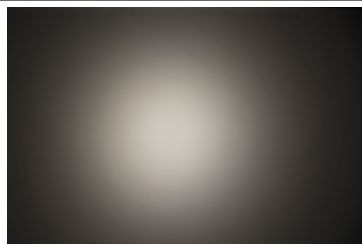
LED CTM-14 (Tunable White)
 FWHM 18.0°
 Efficiency 78 %
 Peak intensity 2.900 cd/lm
 Required components:
 C13584_CLAMP-VERO29
 F13671_ANGE-RZ-LENS
 Bender Wirth: 442 Typ L3



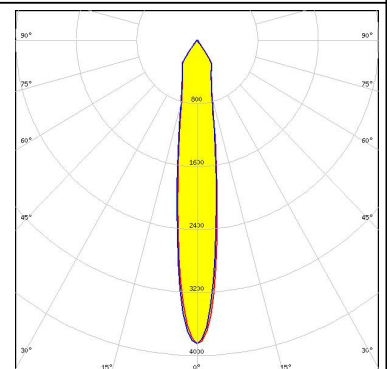
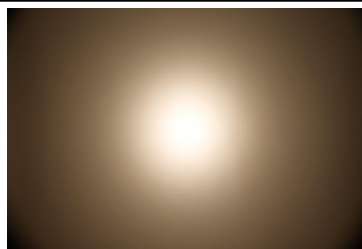
LED CTM-22 (Tunable White)
 FWHM 21.0°
 Efficiency 82 %
 Peak intensity 2.600 cd/lm
 Required components:
 C13584_CLAMP-VERO29
 Bender Wirth: 494 Typ L3



LED CTM-22 (Tunable White)
 FWHM 22.0°
 Efficiency 77 %
 Peak intensity 2.300 cd/lm
 Required components:
 C13584_CLAMP-VERO29
 F13671_ANGE-RZ-LENS
 Bender Wirth: 494 Typ L3



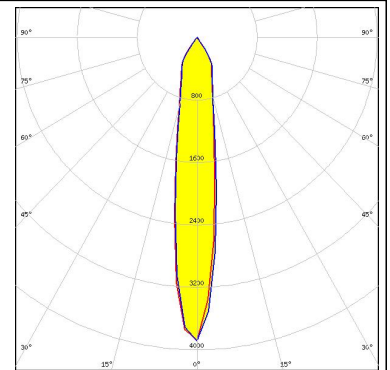
LED CXM-14
 FWHM 16.0°
 Efficiency 85 %
 Peak intensity 3.860 cd/lm
 Required components:
 TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



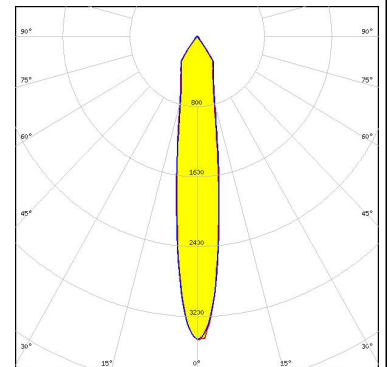
PHOTOMETRIC DATA (MEASURED):



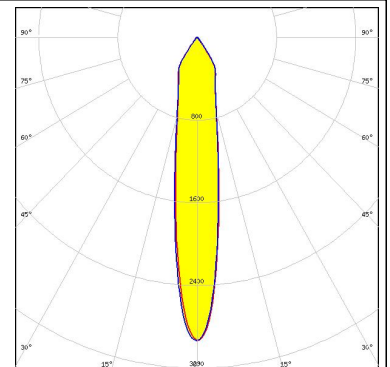
LED COB J-Type
 FWHM 17.0°
 Efficiency 83 %
 Peak intensity 3.890 cd/lm
 Required components:
 IDEAL: 50-2103NC + 50-2100AN



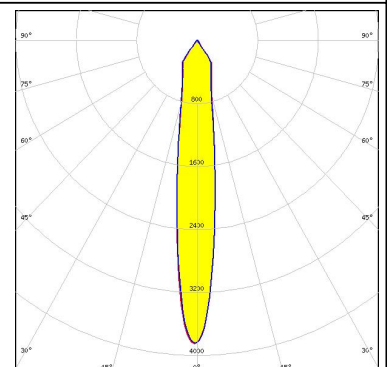
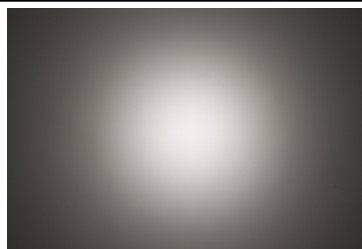
LED COB J-Type
 FWHM 17.0°
 Efficiency 83 %
 Peak intensity 3.500 cd/lm
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 463 Typ L2



LED COB J-Type
 FWHM 17.0°
 Efficiency 80 %
 Peak intensity 2.900 cd/lm
 Required components:
 F13671_ANGE-RZ-LENS
 IDEAL: 50-2103NC + 50-2100AN



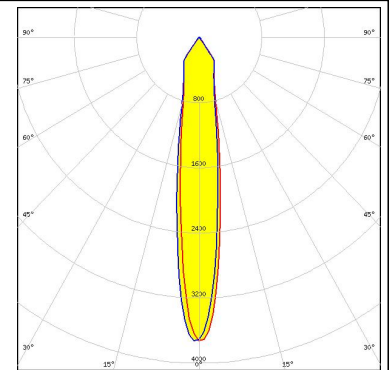
LED COB L-Type (LES 11)
 FWHM 15.0°
 Efficiency 83 %
 Peak intensity 3.900 cd/lm
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 438 Typ L1



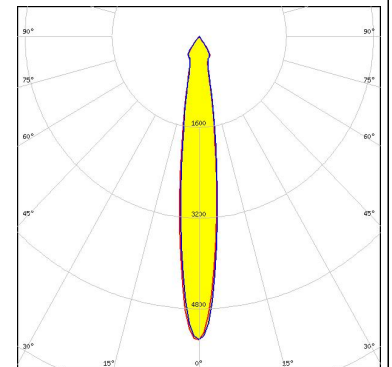
PHOTOMETRIC DATA (MEASURED):



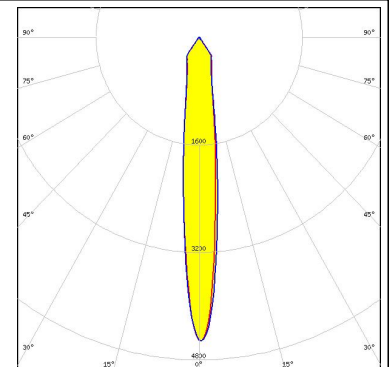
LED COB L-Type (LES 11)
 FWHM 16.0°
 Efficiency 86 %
 Peak intensity 3.740 cd/lm
 Required components:
 Molex: 180580-0005



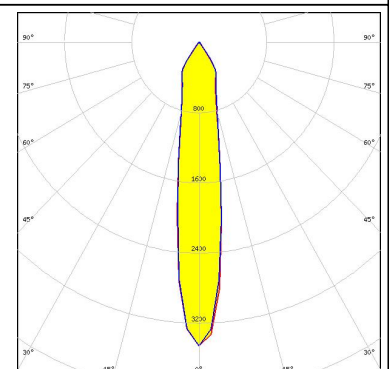
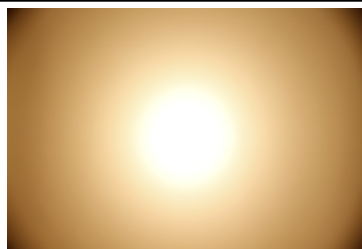
LED COB L-Type (LES 11)
 FWHM 15.0°
 Efficiency 84 %
 Peak intensity 5.350 cd/lm
 Required components:
 TE: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



LED COB L-Type (LES 9)
 FWHM 13.0°
 Efficiency 85 %
 Peak intensity 4.500 cd/lm
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 438 Typ L1



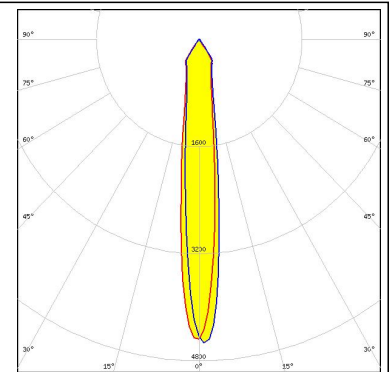
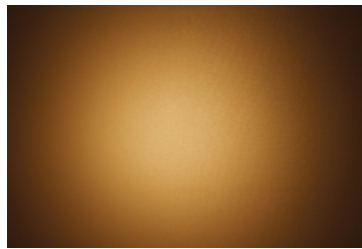
LED PrevaLED Core AC (LEP-2000)
 FWHM 17.0°
 Efficiency 85 %
 Peak intensity 3.470 cd/lm
 Required components:
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



PHOTOMETRIC DATA (MEASURED):

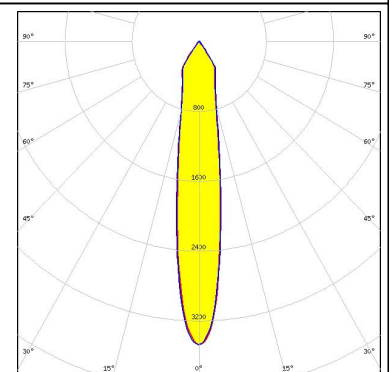
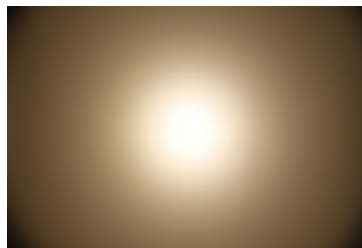
OSRAM

LED PrevaLED Core AC (LEP-800)
FWHM 13.0°
Efficiency 86 %
Peak intensity 4.560 cd/lm
Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1



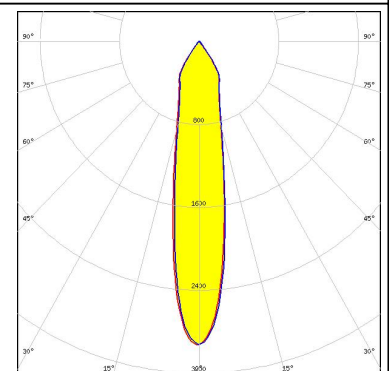
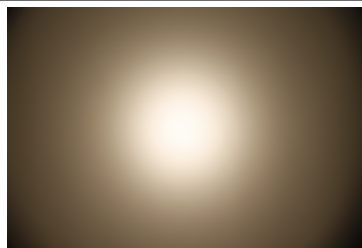
OSRAM

LED PrevaLED Core Z3 LES19
FWHM 17.0°
Efficiency 85 %
Peak intensity 3.470 cd/lm
Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1



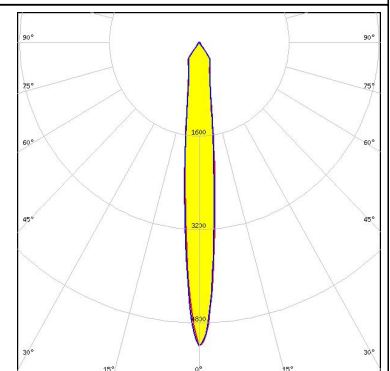
OSRAM

LED PrevaLED Core Z3 LES23
FWHM 20.0°
Efficiency 85 %
Peak intensity 2.930 cd/lm
Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1



OSRAM

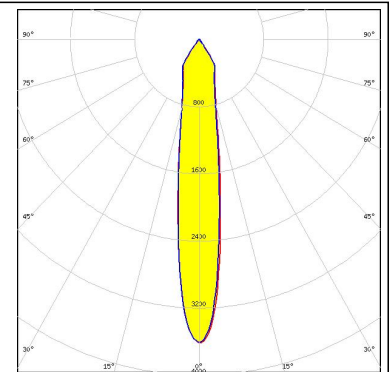
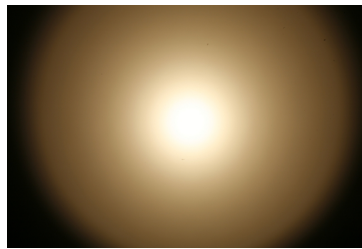
LED PrevaLED Core Z3 LES9
FWHM 12.0°
Efficiency 85 %
Peak intensity 5.190 cd/lm
Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1



PHOTOMETRIC DATA (MEASURED):

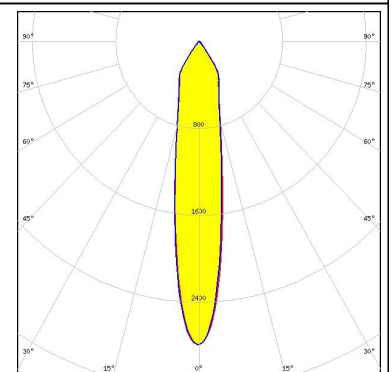
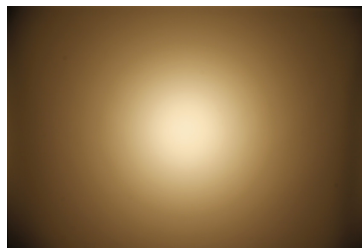
OSRAM

LED PrevaLED Core Z4 LES19
 FWHM 16.0°
 Efficiency 85 %
 Peak intensity 3.600 cd/lm
 Required components:
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



OSRAM

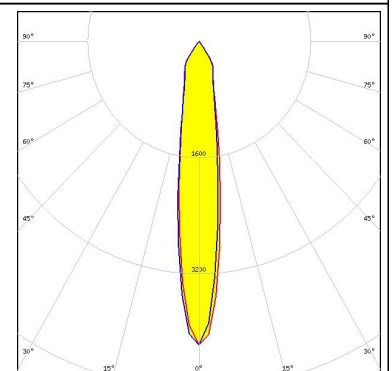
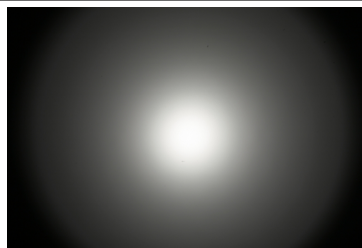
LED PrevaLED Core Z4 LES19
 FWHM 19.0°
 Efficiency 80 %
 Peak intensity 2.800 cd/lm
 Required components:
 F13671_ANGE-RZ-LENS
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



OSRAM

Opto Semiconductors

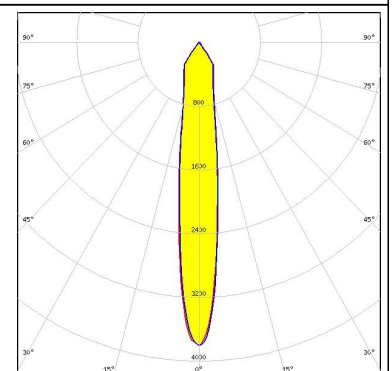
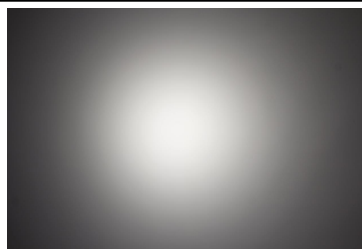
LED Soleriq S13
 FWHM 15.0°
 Efficiency 86 %
 Peak intensity 4.200 cd/lm
 Required components:
 TE: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1



OSRAM

Opto Semiconductors

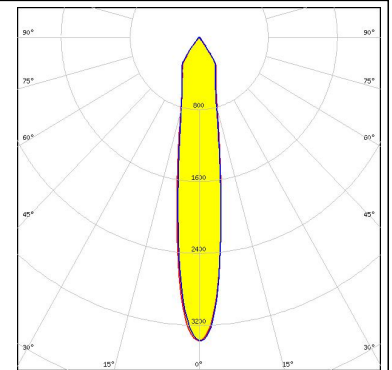
LED Soleriq S13
 FWHM 15.0°
 Efficiency 83 %
 Peak intensity 3.800 cd/lm
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 437 Typ L1



PHOTOMETRIC DATA (MEASURED):

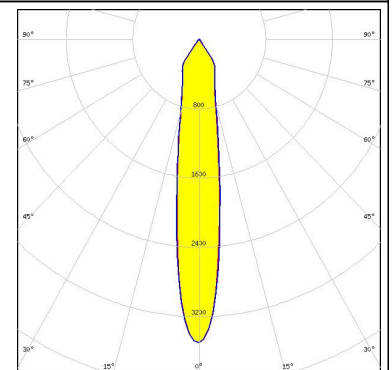
OSRAM
Opto Semiconductors

LED Soleriq S19
FWHM 17.0°
Efficiency 83 %
Peak intensity 3.400 cd/lm
Required components:
C13584_CLAMP-VERO29
Bender Wirth: 462 Typ L3



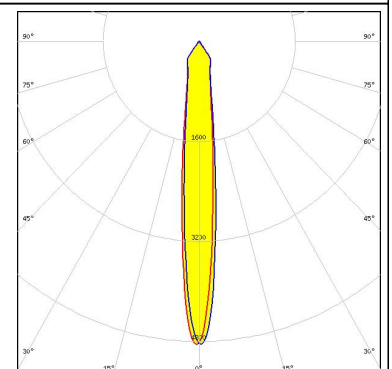
OSRAM
Opto Semiconductors

LED Soleriq S19
FWHM 17.0°
Efficiency 86 %
Peak intensity 3.510 cd/lm
Required components:
TE: 2213407-2 + OPTIC CLIP Z50 TYPE1 2213194-1



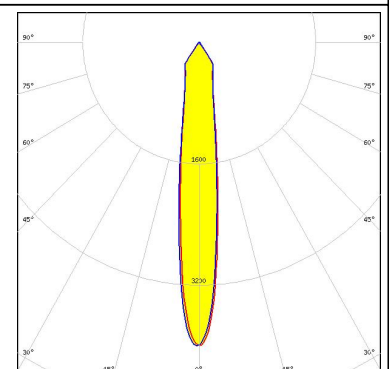
PHILIPS

LED Fortimo SLM L09 Standard
FWHM 13.0°
Efficiency 84 %
Peak intensity 4.870 cd/lm
Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1



PHILIPS

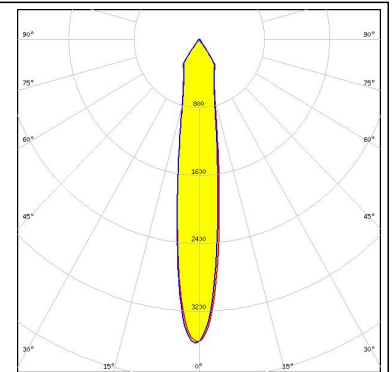
LED Fortimo SLM L13 Standard
FWHM 15.0°
Efficiency 84 %
Peak intensity 4.000 cd/lm
Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1



PHOTOMETRIC DATA (MEASURED):

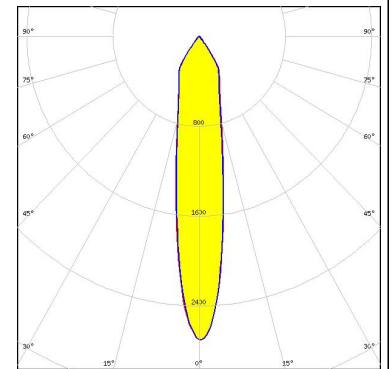
PHILIPS

LED Fortimo SLM L15 Standard
 FWHM 16.0°
 Efficiency 82 %
 Peak intensity 3.580 cd/lm
 Required components:
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



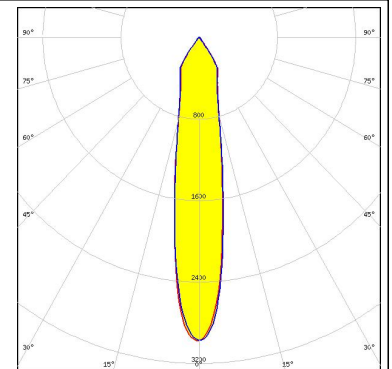
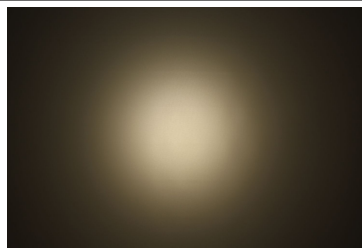
PHILIPS

LED Fortimo SLM L15 Standard
 FWHM 19.0°
 Efficiency 78 %
 Peak intensity 2.700 cd/lm
 Required components:
 F13671_ANGE-RZ-LENS
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



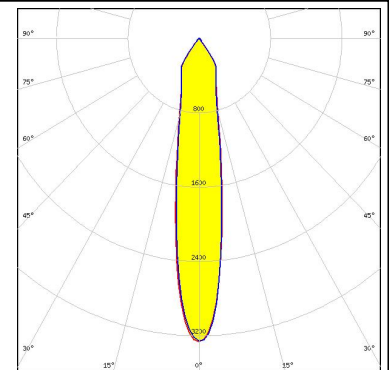
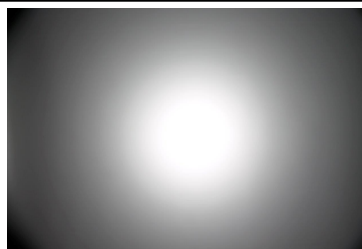
PHILIPS

LED Fortimo SLM L19 Standard
 FWHM 19.0°
 Efficiency 81 %
 Peak intensity 2.980 cd/lm
 Required components:
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



SAMSUNG

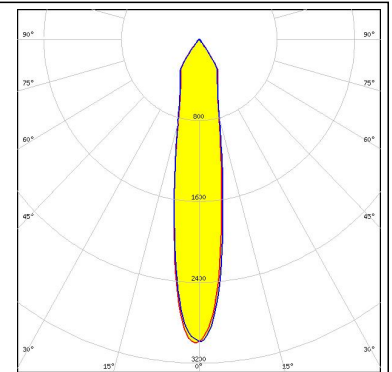
LED LC026B / 033B / 040B
 FWHM 18.0°
 Efficiency 85 %
 Peak intensity 3.300 cd/lm
 Required components:
 TE: 2213258-2 + OPTIC CLIP Z50 TYPE1 2213194-1



PHOTOMETRIC DATA (MEASURED):

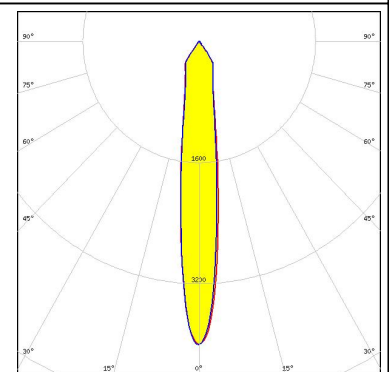
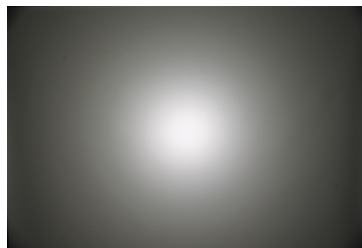
SAMSUNG

LED LC026B / 033B / 040B
 FWHM 19.0°
 Efficiency 83 %
 Peak intensity 3.000 cd/lm
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 450 Typ L2



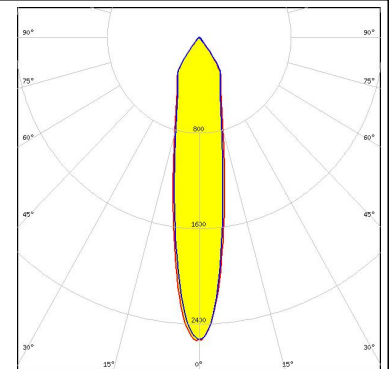
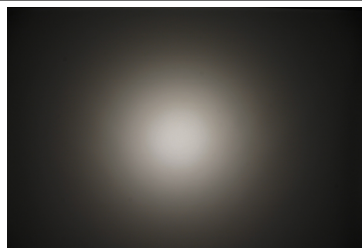
SAMSUNG

LED LC040C
 FWHM 15.0°
 Efficiency 83 %
 Peak intensity 4.000 cd/lm
 Required components:
 TE: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



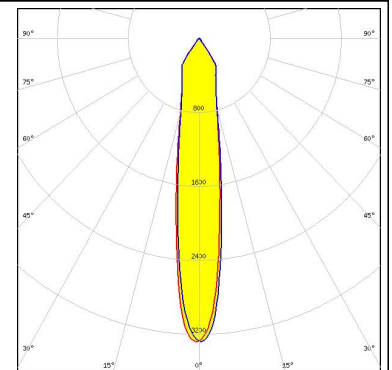
SEOUL SEMICONDUCTOR

LED AC Zhaga COB
 FWHM 19.0°
 Efficiency 79 %
 Peak intensity 2.500 cd/lm
 Required components:
 F13671_ANGE-RZ-LENS
 Optosource: SEHSMJD-A



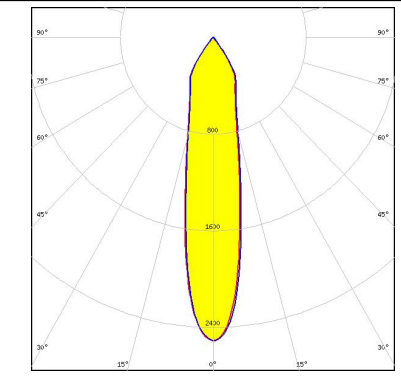

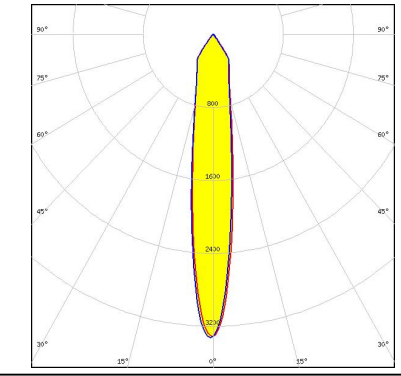

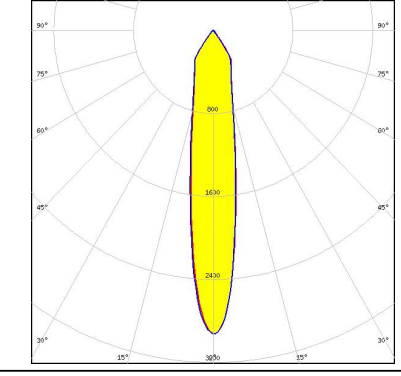

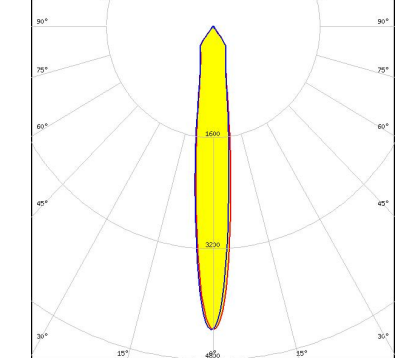


SEOUL SEMICONDUCTOR

LED MJT COB LES 14.5
 FWHM 17.0°
 Efficiency 82 %
 Peak intensity 3.300 cd/lm
 Required components:
 TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



PHOTOMETRIC DATA (MEASURED):

<p> SEUL SEMICONDUCTOR</p> <p>LED MJT COB LES 22</p> <p>FWHM 22.0°</p> <p>Efficiency 82 %</p> <p>Peak intensity 2.500 cd/lm</p> <p>Required components: C13584_CLAMP-VERO29 Bender Wirth: 431 Typ L3</p>		
<p>TRIDONIC</p> <p>LED SLE G1 11mm 1000lm 927 Sunset R EXC</p> <p>FWHM 16.0°</p> <p>Efficiency 80 %</p> <p>Peak intensity 3.300 cd/lm</p> <p>Required components: F13671_ANGE-RZ-LENS TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p>TRIDONIC</p> <p>LED SLE G1 15mm 2000lm 927 Sunset R EXC</p> <p>FWHM 18.0°</p> <p>Efficiency 79 %</p> <p>Peak intensity 2.900 cd/lm</p> <p>Required components: F13671_ANGE-RZ-LENS TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p>TRIDONIC</p> <p>LED SLE G5 LES11</p> <p>FWHM 14.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 4.400 cd/lm</p> <p>Required components: C13658_CLAMP-VERO13-18 Bender Wirth: 434 Typ L1</p>		

PHOTOMETRIC DATA (MEASURED):

TRIDONIC

LED SLE G6 LES19 H

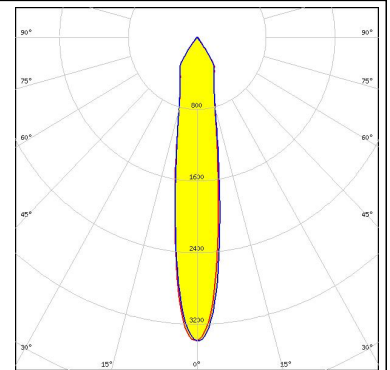
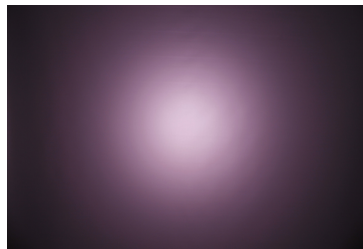
FWHM 17.0°

Efficiency 84 %

Peak intensity 3.400 cd/lm

Required components:

TE: OPTIC CLIP Z50 TYPE1 2213194-1



VS LIGHTING SOLUTIONS

LED WU-M-461

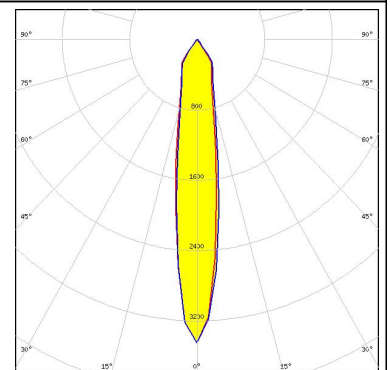
FWHM 17.0°

Efficiency 83 %

Peak intensity 3.450 cd/lm

Required components:

TE: OPTIC CLIP Z50 TYPE1 2213194-1



VS LIGHTING SOLUTIONS

LED WU-M-462

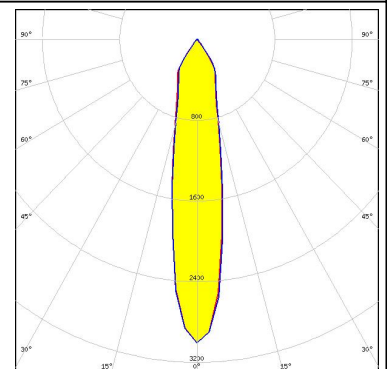
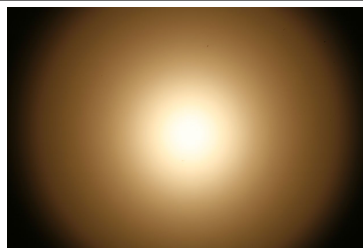
FWHM 20.0°

Efficiency 85 %

Peak intensity 3.000 cd/lm

Required components:

TE: OPTIC CLIP Z50 TYPE1 2213194-1



VS LIGHTING SOLUTIONS

LED WU-M-464

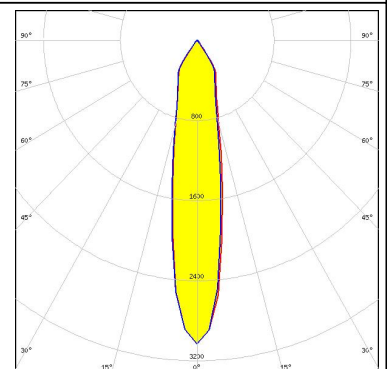
FWHM 20.0°

Efficiency 85 %

Peak intensity 3.000 cd/lm

Required components:

TE: OPTIC CLIP Z50 TYPE1 2213194-1



PHOTOMETRIC DATA (MEASURED):



LED WU-M-484

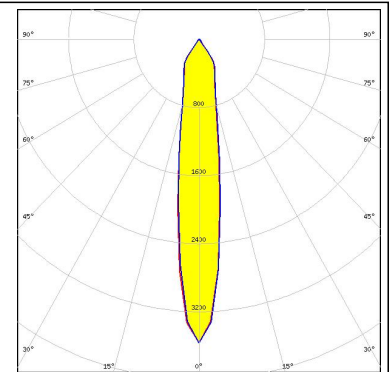
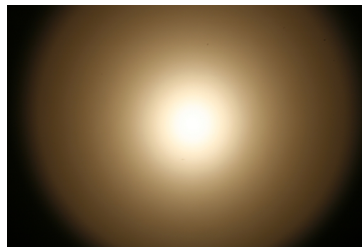
FWHM 17.0°

Efficiency 85 %

Peak intensity 3.600 cd/lm

Required components:

TE: OPTIC CLIP Z50 TYPE1 2213194-1



LED WU-M-485

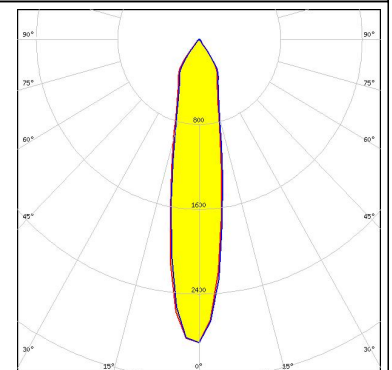
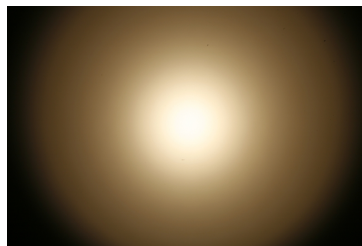
FWHM 20.0°

Efficiency 85 %

Peak intensity 2.890 cd/lm

Required components:

TE: OPTIC CLIP Z50 TYPE1 2213194-1



LED WU-M-486

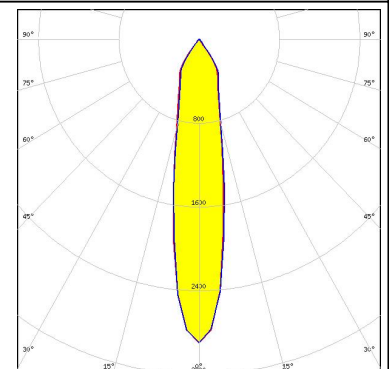
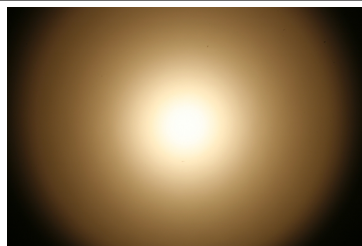
FWHM 20.0°

Efficiency 84 %

Peak intensity 2.900 cd/lm

Required components:

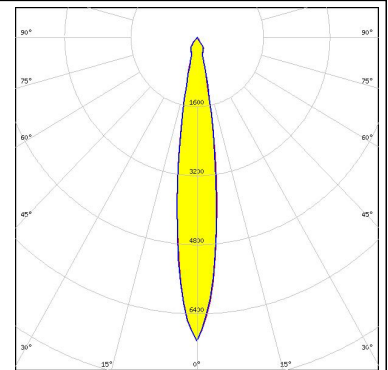
TE: OPTIC CLIP Z50 TYPE1 2213194-1



PHOTOMETRIC DATA (SIMULATED):

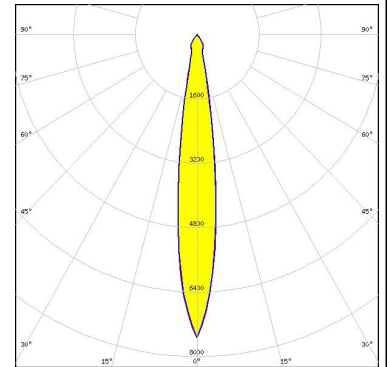
bridgelux.

LED V10 Gen7
 FWHM 15.0°
 Efficiency 90 %
 Peak intensity 7.030 cd/lm
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 434 Typ L1



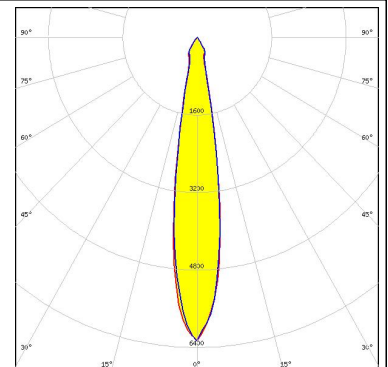
bridgelux.

LED V13 Gen7
 FWHM 14.5°
 Efficiency 91 %
 Peak intensity 7.530 cd/lm
 Required components:
 IDEAL: 50-2103CT + 50-2100AN



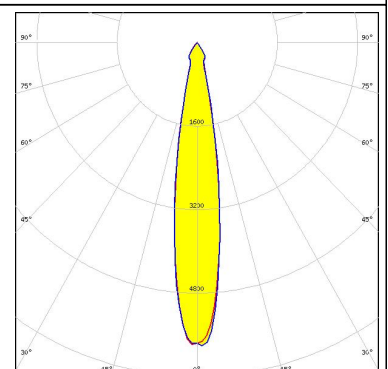
bridgelux.

LED V22 Gen7
 FWHM 17.0°
 Efficiency 93 %
 Peak intensity 6.339 cd/lm
 Required components:
 IDEAL: 50-2204-CT + 50-2100AN



CREE ⇄

LED CXA/B 1830
 FWHM 17.0°
 Efficiency 88 %
 Peak intensity 5.900 cd/lm
 Required components:
 TE: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1



PHOTOMETRIC DATA (SIMULATED):



LED CXM-14
FWHM 17.0°
Efficiency 83 %
Peak intensity 3.400 cd/lm
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 433 Typ L1

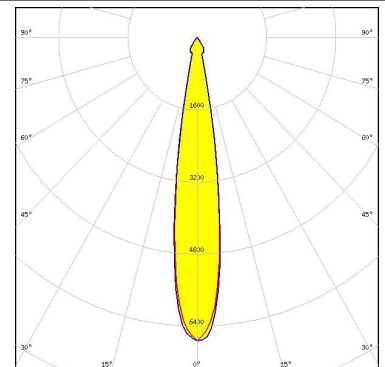


LED CXM-9
FWHM 14.0°
Efficiency 84 %
Peak intensity 4.300 cd/lm
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 434 Typ L1



Opto Semiconductors


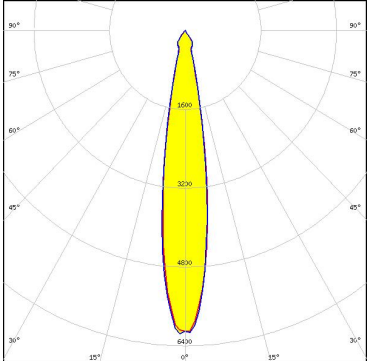
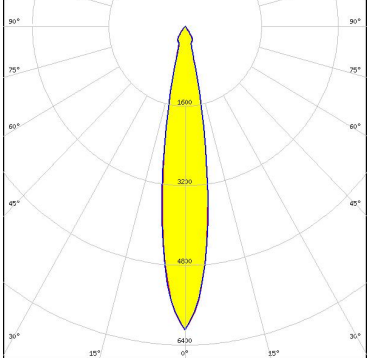
LED Soleriq S15
FWHM 16.0°
Efficiency 90 %
Peak intensity 6.750 cd/lm
Required components:
TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



SEOUL SEMICONDUCTOR

LED ZC12/18
FWHM 17.0°
Efficiency 83 %
Peak intensity 3.400 cd/lm
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 433 Typ L1

PHOTOMETRIC DATA (SIMULATED):

 SEOUL SEMICONDUCTOR	
LED	ZC4/6
FWHM	14.0°
Efficiency	84 %
Peak intensity	4.300 cd/lm
Required components: C13658_CLAMP-VERO13-18 Bender Wirth: 434 Typ L1	
TRIDONIC	
LED	SLE G6 LES15
FWHM	17.0°
Efficiency	89 %
Peak intensity	6.200 cd/lm
Required components: TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1	
	
TRIDONIC	
LED	SLE G6 LES17
FWHM	18.0°
Efficiency	91 %
Peak intensity	6.100 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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