

ANGELA-W

~45° wide beam

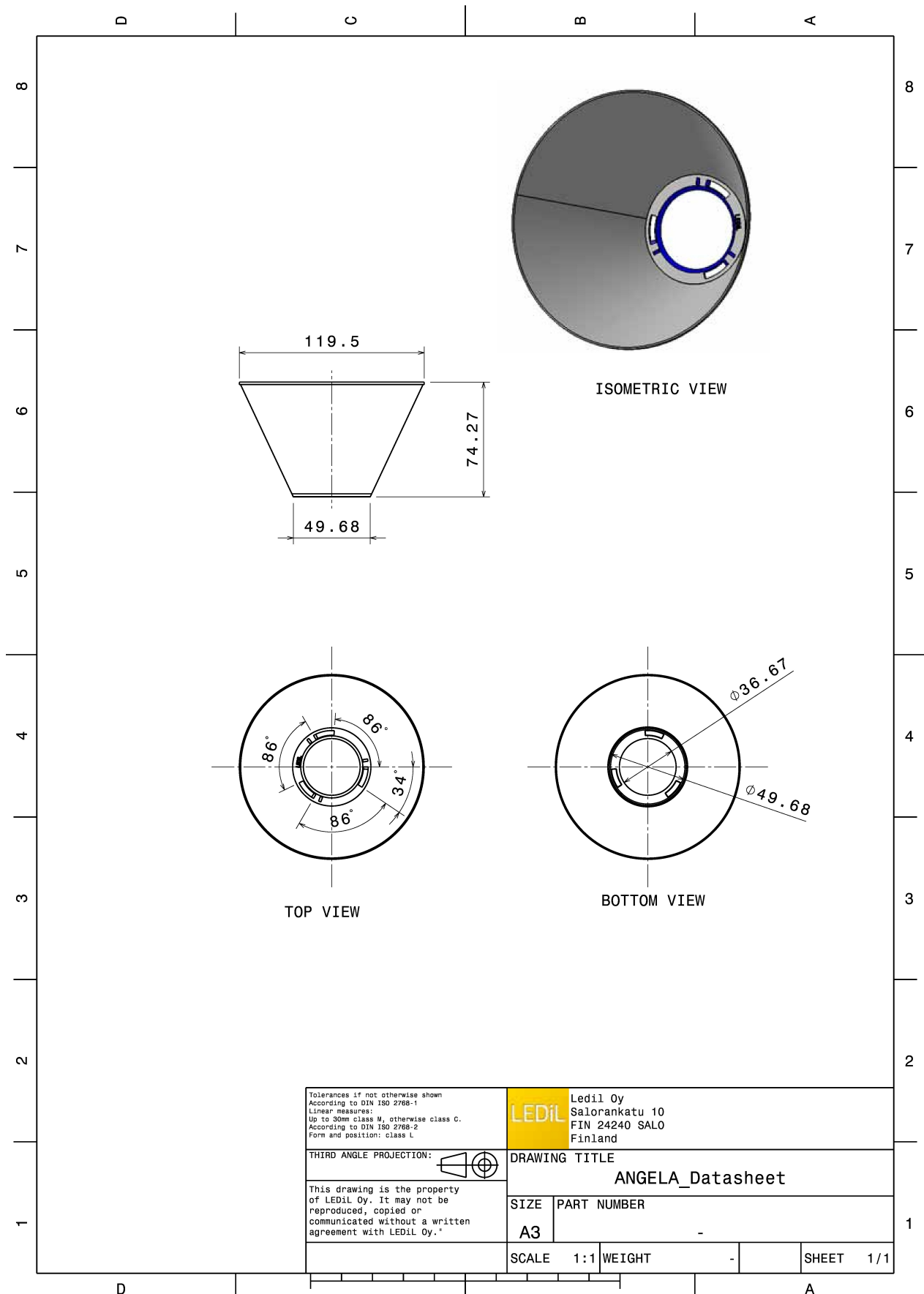
TECHNICAL SPECIFICATIONS:

Dimensions	Ø 119.5 mm
Height	74.3 mm
Fastening	socket
Colour	metal
Box size	398 x 298 x 265 mm
Box weight	9.1 kg
Quantity in Box	180 pcs
ROHS compliant	yes ⓘ



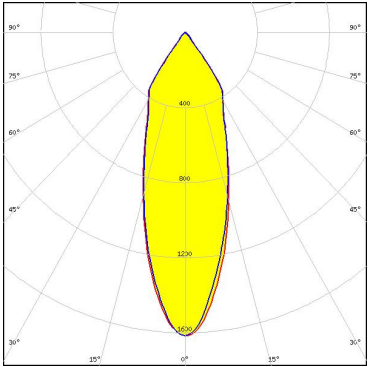

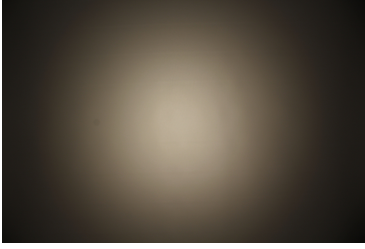
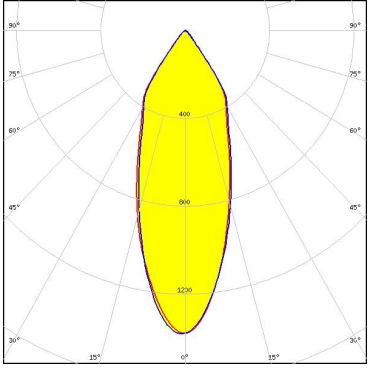

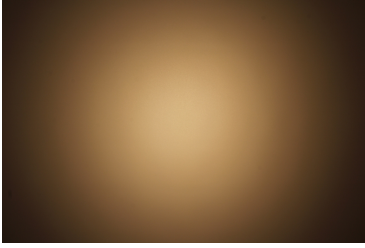


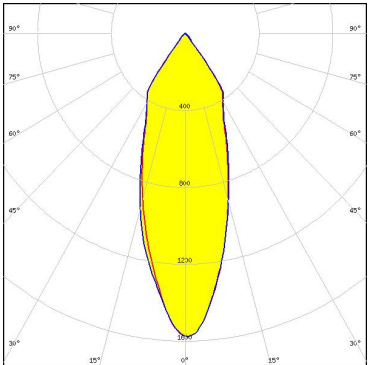


MATERIAL SPECIFICATIONS:


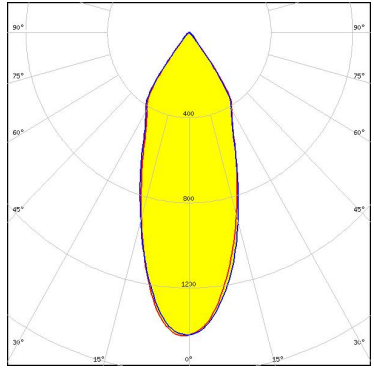
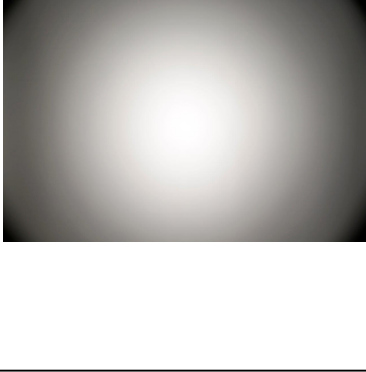
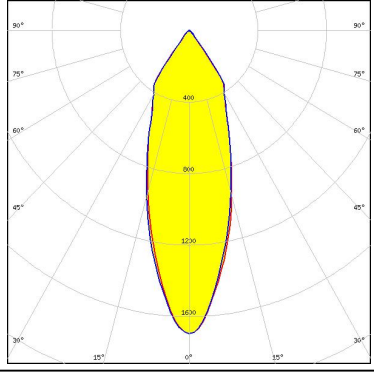
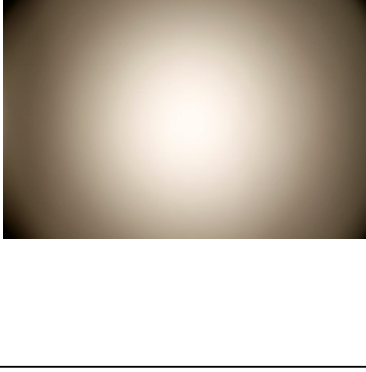
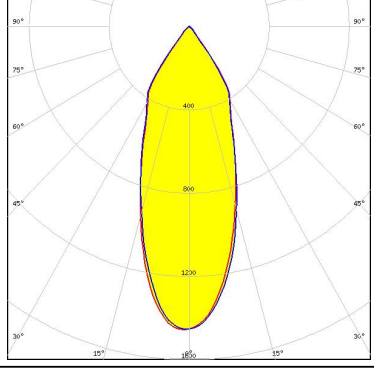
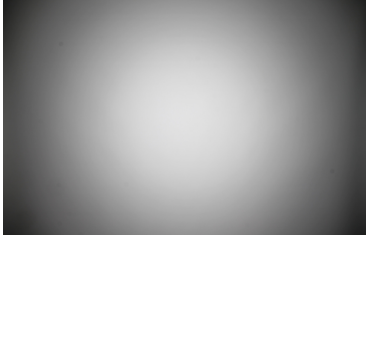
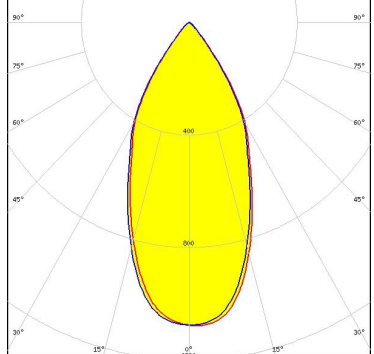
Component	Type	Material	Colour	Coating
ANGELA-W	Reflector	PC	metal	HMDS



PHOTOMETRIC DATA (MEASURED):

 LED V13 Gen7 FWHM 34.0° Efficiency 83 % Peak intensity 1.600 cd/lm Required components: TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1		
 LED V13 Gen7 FWHM 37.0° Efficiency 78 % Peak intensity 1.400 cd/lm Required components: F13671_ANGE-RZ-LENS TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1		
 LED V15 Gen6 FWHM 35.0° Efficiency 84 % Peak intensity 1.700 cd/lm Required components: C13658_CLAMP-VERO13-18 Bender Wirth: 456 Typ L2		
 LED Vero SE 13 FWHM 34.0° Efficiency 83 % Peak intensity 1.600 cd/lm Required components: C16402_CLAMP-VEROSE-13-18		

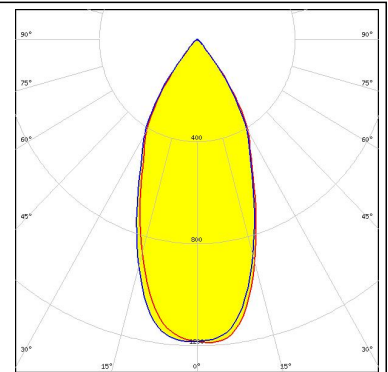
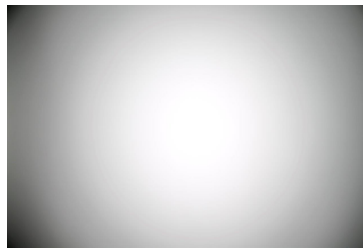
PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED Vero SE 18</p> <p>FWHM 39.0°</p> <p>Efficiency 82 %</p> <p>Peak intensity 1.400 cd/lm</p> <p>Required components:</p> <p> C16402_CLAMP-VEROSE-13-18</p>		
<p>bridgelux.</p> <p>LED VERO13</p> <p>FWHM 33.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 1.700 cd/lm</p> <p>Required components:</p> <p> C13658_CLAMP-VERO13-18</p>		
<p>bridgelux.</p> <p>LED VERO18</p> <p>FWHM 38.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 1.500 cd/lm</p> <p>Required components:</p> <p> C13658_CLAMP-VERO13-18</p>		
<p>bridgelux.</p> <p>LED VERO29</p> <p>FWHM 48.0°</p> <p>Efficiency 78 %</p> <p>Peak intensity 1.080 cd/lm</p> <p>Required components:</p> <p> C13584_CLAMP-VERO29</p> <p> F13671_ANGE-RZ-LENS</p>		

PHOTOMETRIC DATA (MEASURED):

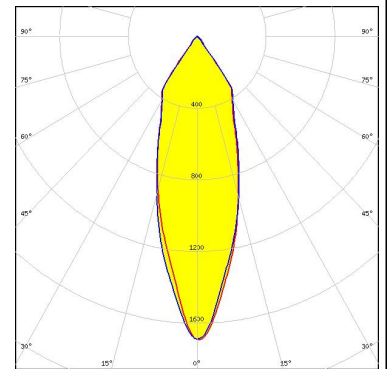
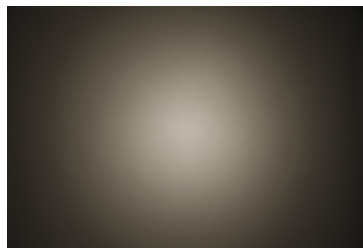


LED VERO29
FWHM 46.0°
Efficiency 82 %
Peak intensity 1.190 cd/lm
Required components:
C13584_CLAMP-VERO29



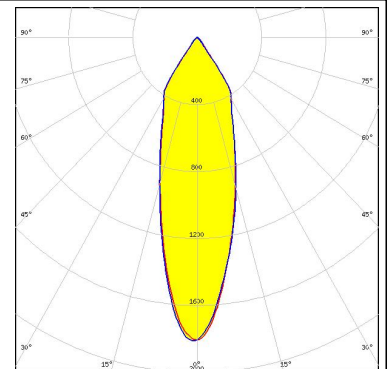
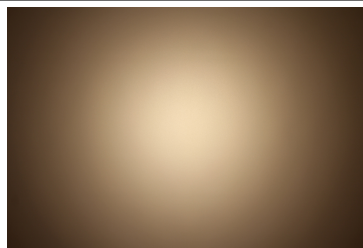
CITIZEN

LED CLL02x/CLU02x (LES10)
FWHM 33.0°
Efficiency 83 %
Peak intensity 1.700 cd/lm
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 434 Typ L1



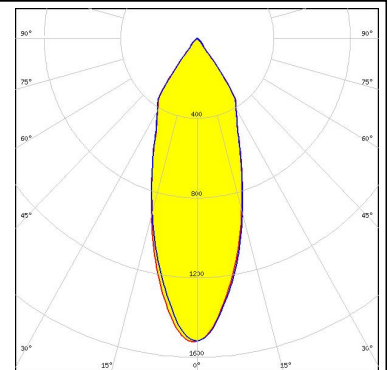
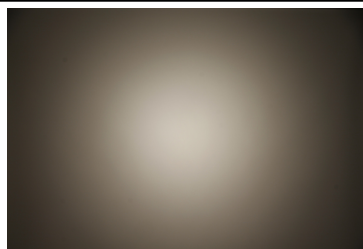
CITIZEN

LED CLL03x/CLU03x
FWHM 30.0°
Efficiency 83 %
Peak intensity 1.800 cd/lm
Required components:
IDEAL: 50-2103CT + 50-2100AN



CITIZEN

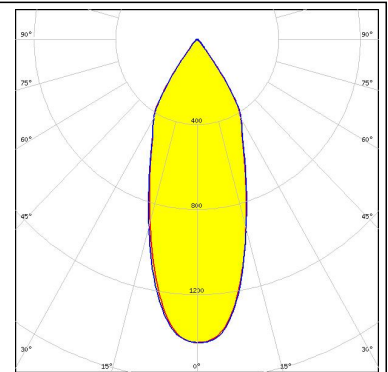
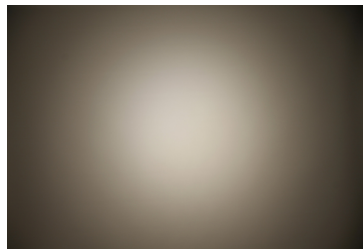
LED CLL03x/CLU03x
FWHM 36.0°
Efficiency 82 %
Peak intensity 1.500 cd/lm
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 433 Typ L1



PHOTOMETRIC DATA (MEASURED):

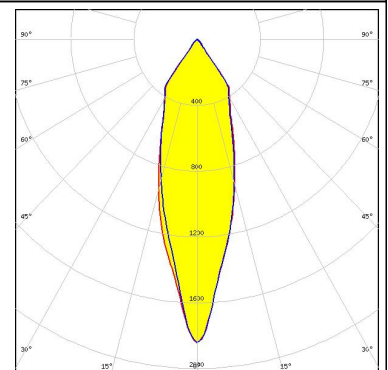
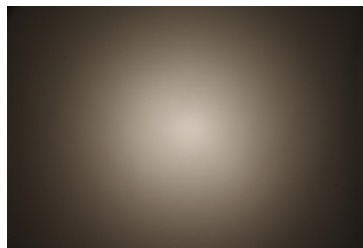
CITIZEN

LED CLL04x/CLU04x
FWHM 39.0°
Efficiency 83 %
Peak intensity 1.400 cd/lm
Required components:
C13584_CLAMP-VERO29
Bender Wirth: 431 Typ L3



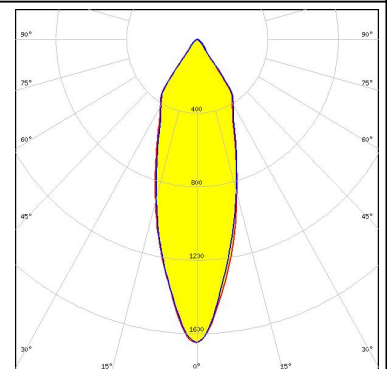
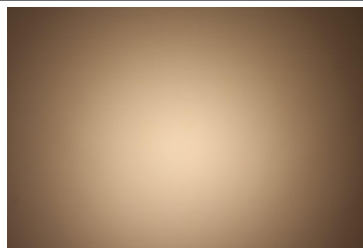
CITIZEN

LED CLU700/701
FWHM 30.0°
Efficiency 82 %
Peak intensity 1.800 cd/lm
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 434 Typ L1



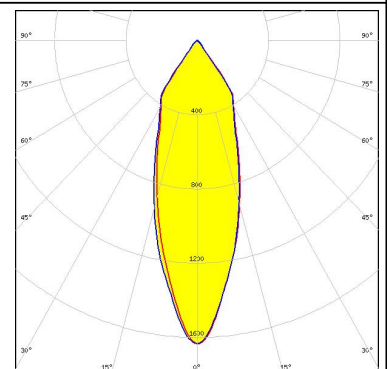
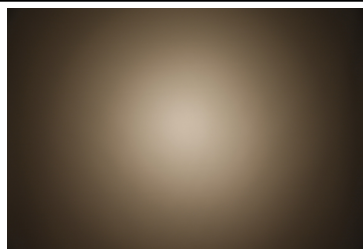
CITIZEN

LED CLU720/721
FWHM 32.0°
Efficiency 85 %
Peak intensity 1.700 cd/lm
Required components:
TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



CITIZEN

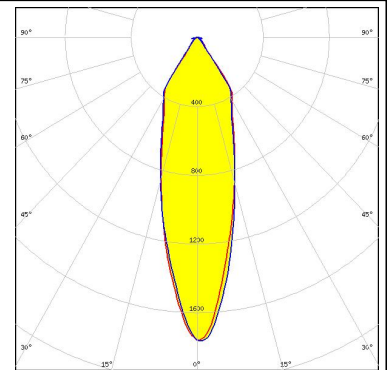
LED CLU720/721
FWHM 34.0°
Efficiency 82 %
Peak intensity 1.600 cd/lm
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 433 Typ L1



PHOTOMETRIC DATA (MEASURED):

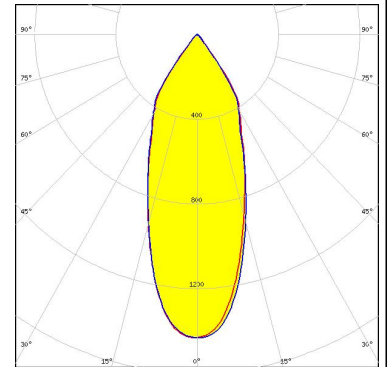
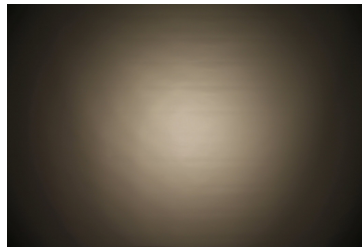
CITIZEN

LED CLU720/721
FWHM 29.0°
Efficiency 85 %
Peak intensity 1.800 cd/lm
Required components:
IDEAL: 50-2103CT + 50-2100AN



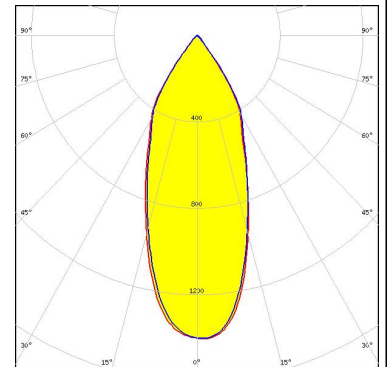
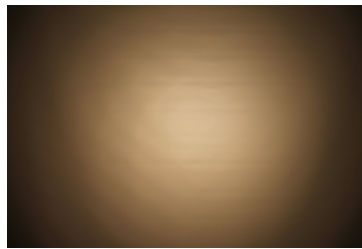
CREE

LED CMA2550
FWHM 39.0°
Efficiency 84 %
Peak intensity 1.400 cd/lm
Required components:
C14036_CLAMP_CXA25-30



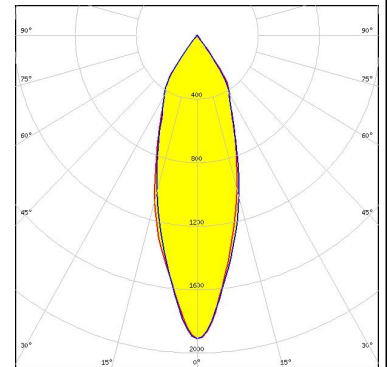
CREE

LED CMA3090
FWHM 40.0°
Efficiency 84 %
Peak intensity 1.400 cd/lm
Required components:
C14036_CLAMP_CXA25-30



CREE

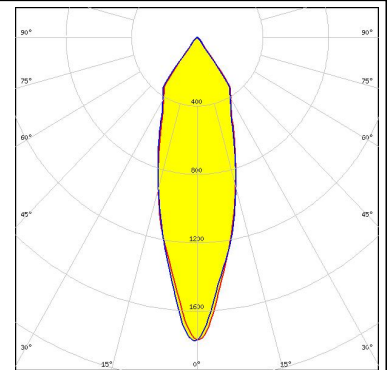
LED CXA/B 15xx
FWHM 33.0°
Efficiency 84 %
Peak intensity 1.900 cd/lm
Required components:
C14123_CLAMP-CXA15-18



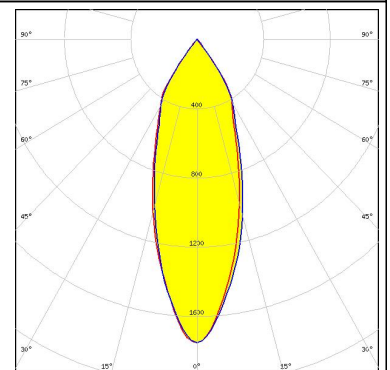
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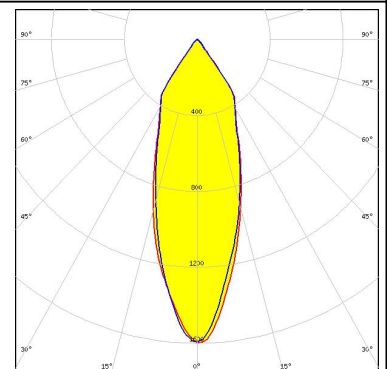
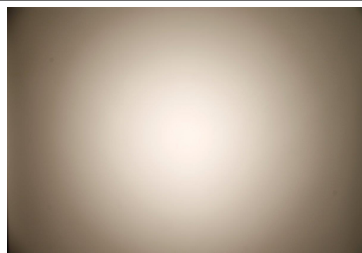
LED CXA/B 15xx
FWHM 31.0°
Efficiency 83 %
Peak intensity 1.800 cd/lm
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 441 Typ L1



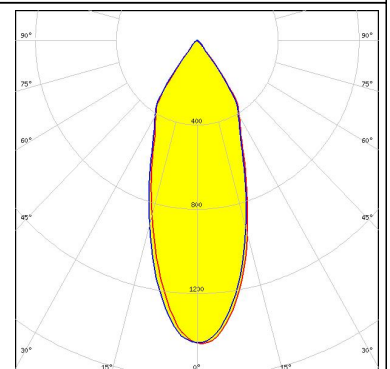
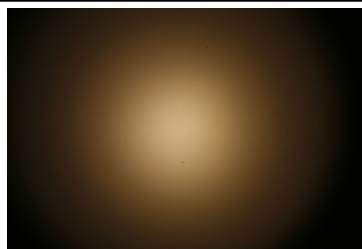
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM 36.0°
Efficiency 84 %
Peak intensity 1.800 cd/lm
Required components:
C14123_CLAMP-CXA15-18



LED CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM 34.0°
Efficiency 82 %
Peak intensity 1.600 cd/lm
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 437 Typ L1



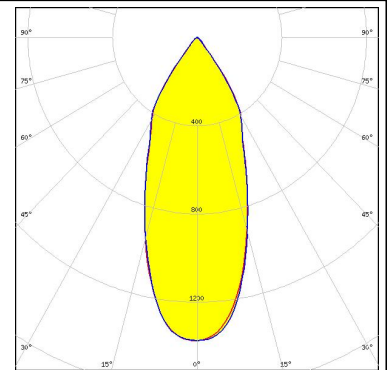
LED CXA/B 25xx
FWHM 38.0°
Efficiency 84 %
Peak intensity 1.400 cd/lm
Required components:
C14036_CLAMP_CXA25-30



PHOTOMETRIC DATA (MEASURED):

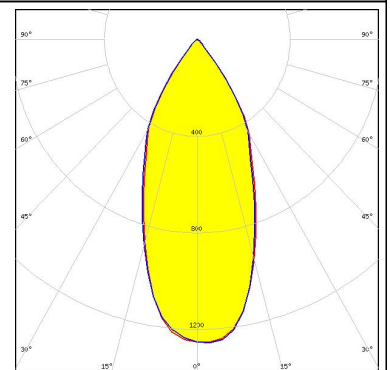
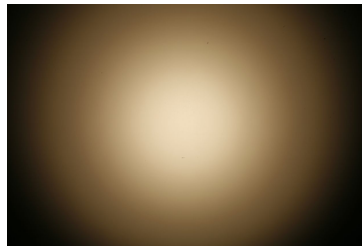
CREE ⇄

LED CXA/B 30xx
 FWHM 41.0°
 Efficiency 84 %
 Peak intensity 1.400 cd/lm
 Required components:
 C14036_CLAMP_CXA25-30



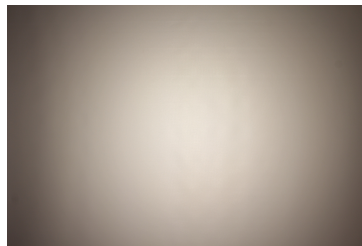
CREE ⇄

LED CXA/B 3590
 FWHM 44.0°
 Efficiency 84 %
 Peak intensity 1.260 cd/lm
 Required components:
 IDEAL: 50-2303CR + 50-2300AN



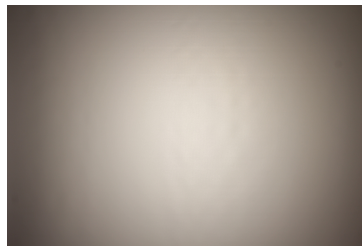
EVERLIGHT

LED CHI3030 19W
 FWHM 40.0°
 Efficiency 80 %
 Peak intensity 1.400 cd/lm
 Required components:
 C13584_CLAMP-VERO29
 F13671_ANGE-RZ-LENS
 Bender Wirth: 468 Typ L3



EVERLIGHT

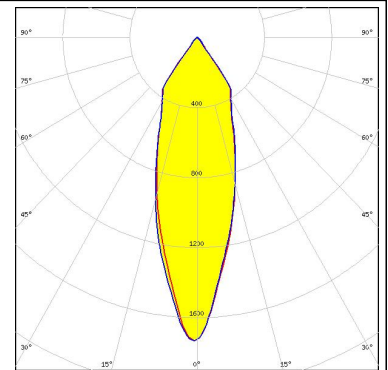
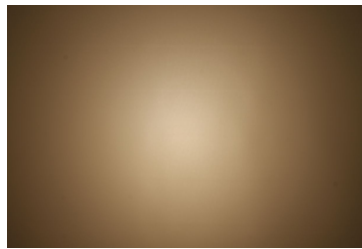
LED CHI3030 29W
 FWHM 43.0°
 Efficiency 80 %
 Peak intensity 1.300 cd/lm
 Required components:
 C13584_CLAMP-VERO29
 F13671_ANGE-RZ-LENS
 Bender Wirth: 468 Typ L3



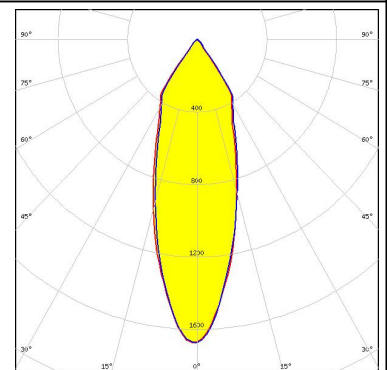
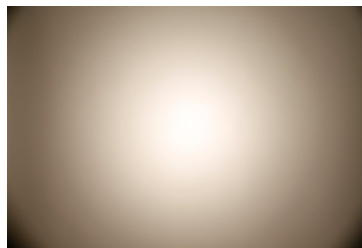
PHOTOMETRIC DATA (MEASURED):



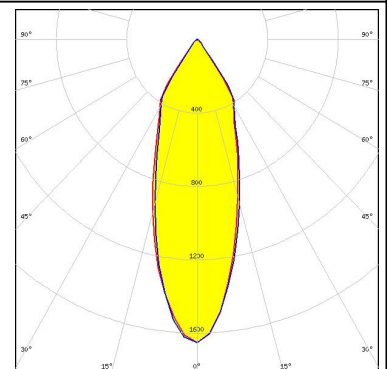
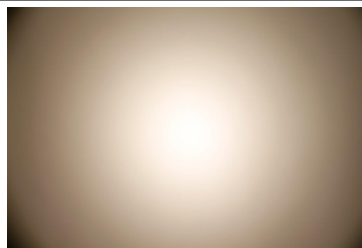
LED LUXEON CoB 1202/1203
FWHM 31.0°
Efficiency 83 %
Peak intensity 1.700 cd/lm
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 438 Typ L1



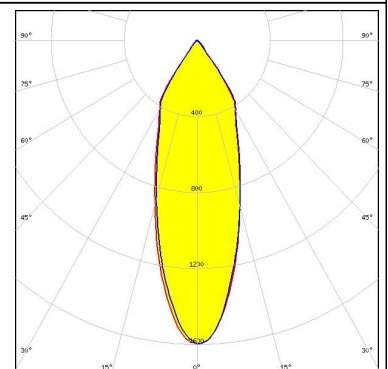
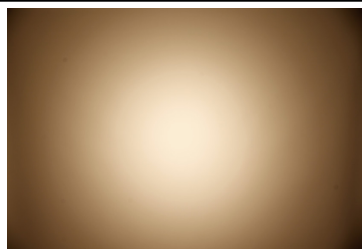
LED LUXEON CoB 1204/1205
FWHM 33.0°
Efficiency 84 %
Peak intensity 1.680 cd/lm
Required components:
TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



LED LUXEON CoB 1208
FWHM 34.0°
Efficiency 84 %
Peak intensity 1.660 cd/lm
Required components:
TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



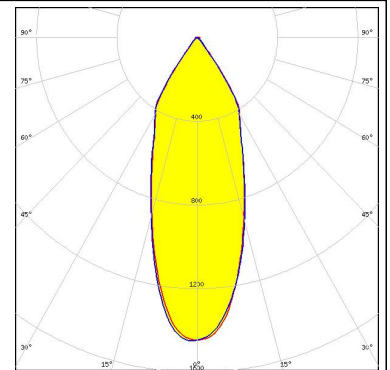
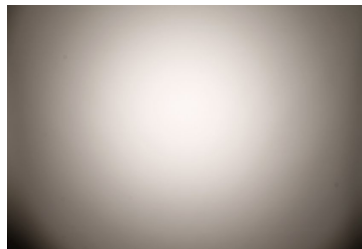
LED LUXEON CoB 1208
FWHM 34.0°
Efficiency 82 %
Peak intensity 1.600 cd/lm
Required components:
IDEAL: 50-2100SH + 50-2100AN



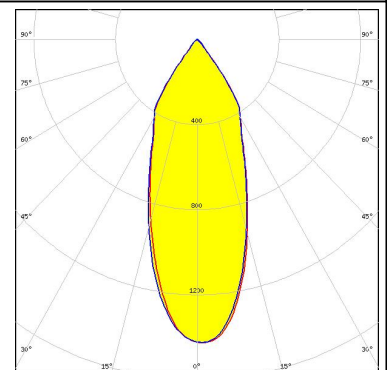
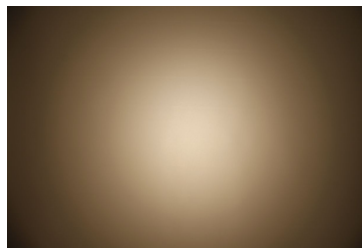
PHOTOMETRIC DATA (MEASURED):



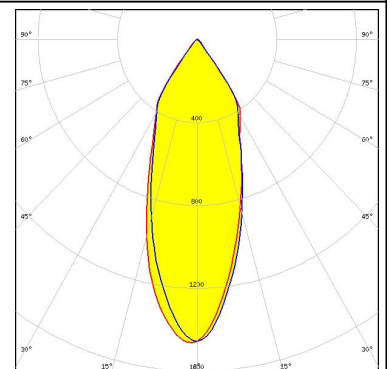
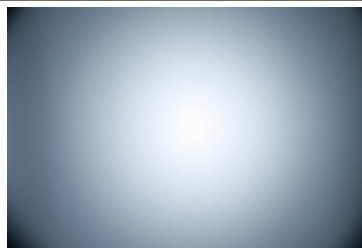
LED LUXEON CoB 1211
 FWHM 37.0°
 Efficiency 82 %
 Peak intensity 1.500 cd/lm
 Required components:
 IDEAL: 50-2204-CT + 50-2100AN



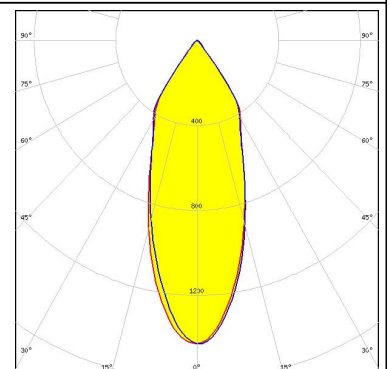
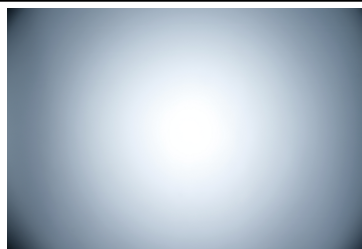
LED LUXEON CoB 1211
 FWHM 39.0°
 Efficiency 83 %
 Peak intensity 1.400 cd/lm
 Required components:
 C13584_CLAMP-VERO29
 Bender Wirth: 431 Typ L3



LED LUXEON K12
 FWHM 37.0°
 Efficiency 82 %
 Peak intensity 1.500 cd/lm
 Required components:
 F13671_ANGE-RZ-LENS
 TE: 2213134-2 + OPTIC CLIP Z50 TYPE1 2213194-1



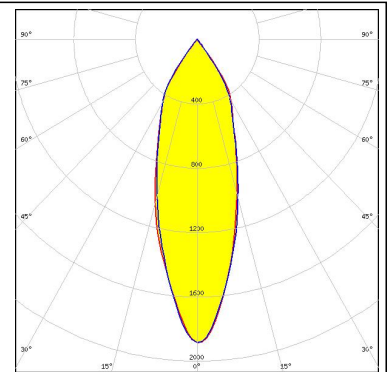
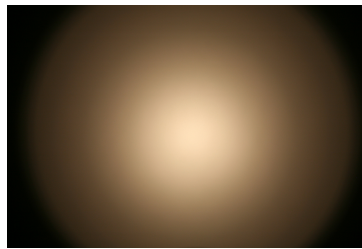
LED LUXEON K16
 FWHM 38.0°
 Efficiency 83 %
 Peak intensity 1.400 cd/lm
 Required components:
 F13671_ANGE-RZ-LENS
 TE: 2213134-2 + OPTIC CLIP Z50 TYPE1 2213194-1



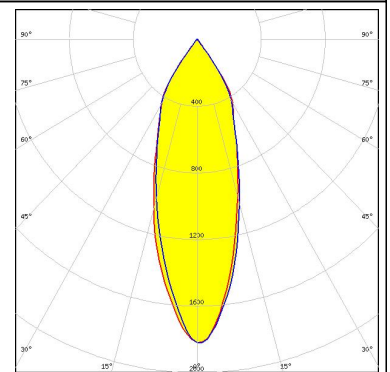
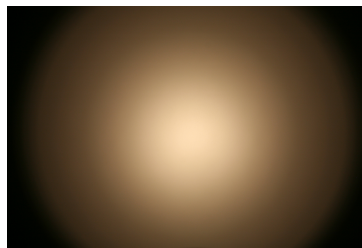
PHOTOMETRIC DATA (MEASURED):



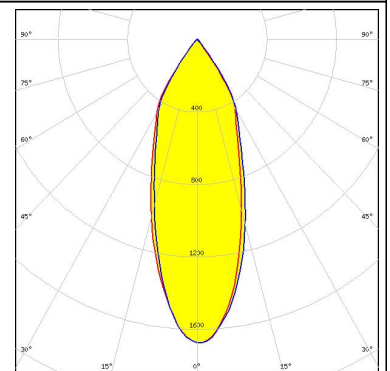
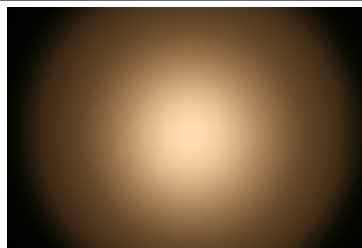
LED LUXEON S2000
 FWHM 34.0°
 Efficiency 84 %
 Peak intensity 1.900 cd/lm
 Required components:
 C13395_CLAMP-S2000



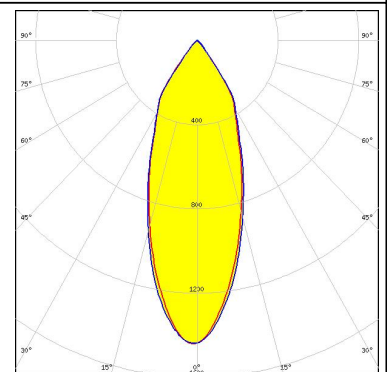
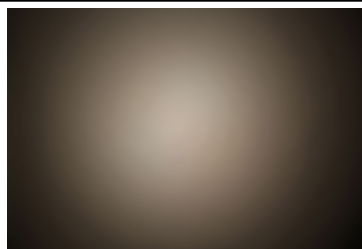
LED LUXEON S3000
 FWHM 34.0°
 Efficiency 84 %
 Peak intensity 1.800 cd/lm
 Required components:
 C13397_CLAMP-S3000



LED LUXEON S5000
 FWHM 37.0°
 Efficiency 85 %
 Peak intensity 1.700 cd/lm
 Required components:
 C13399_CLAMP-S5000



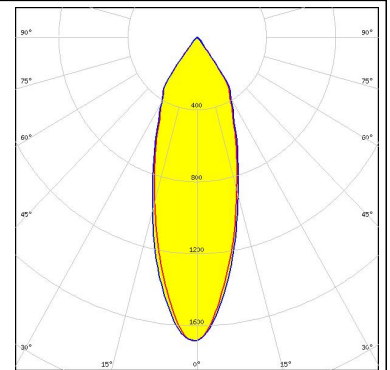
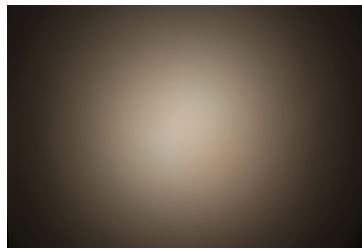
LED CDM-14 (Dim-To-Warm)
 FWHM 38.0°
 Efficiency 80 %
 Peak intensity 1.400 cd/lm
 Required components:
 C13658_CLAMP-VERO13-18
 F13671_ANGE-RZ-LENS
 Bender Wirth: 491 Typ L2



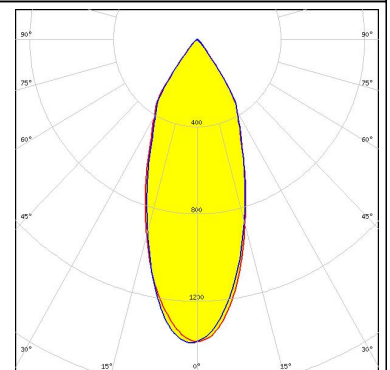
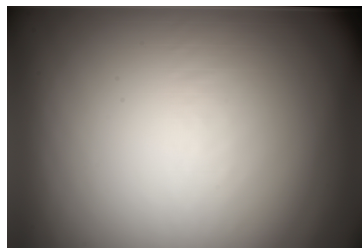
PHOTOMETRIC DATA (MEASURED):



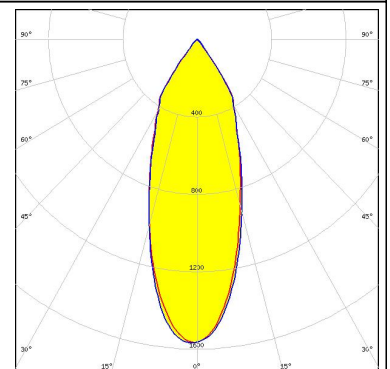
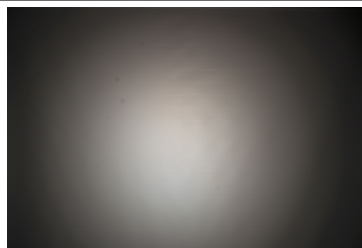
LED CDM-14 (Dim-To-Warm)
 FWHM 34.0°
 Efficiency 84 %
 Peak intensity 1.700 cd/lm
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 491 Typ L2



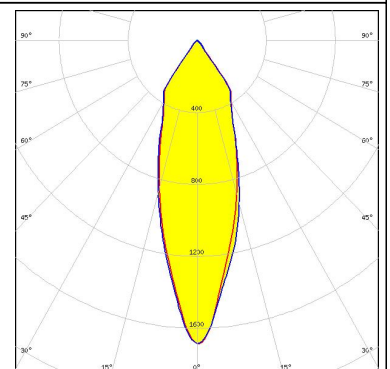
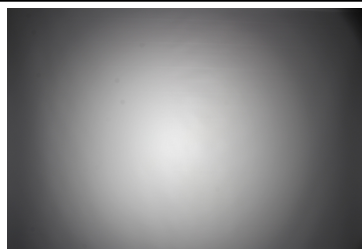
LED CDM-18 (Dim-To-Warm)
 FWHM 40.0°
 Efficiency 81 %
 Peak intensity 1.400 cd/lm
 Required components:
 C13658_CLAMP-VERO13-18
 F13671_ANGE-RZ-LENS
 Bender Wirth: 491 Typ L2



LED CDM-18 (Dim-To-Warm)
 FWHM 37.0°
 Efficiency 85 %
 Peak intensity 1.600 cd/lm
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 491 Typ L2



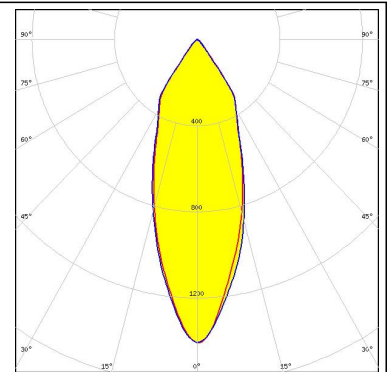
LED CDM-9 (Dim-To-Warm)
 FWHM 32.0°
 Efficiency 80 %
 Peak intensity 1.700 cd/lm
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 490 Typ L1



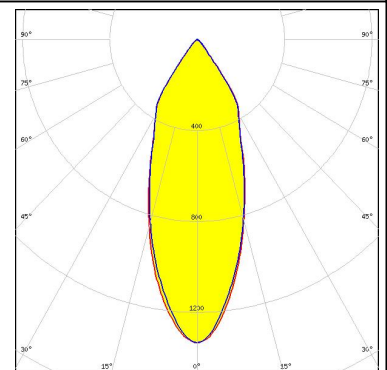
PHOTOMETRIC DATA (MEASURED):



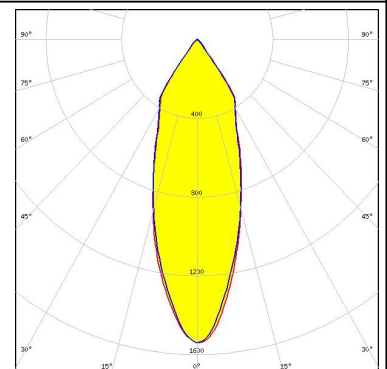
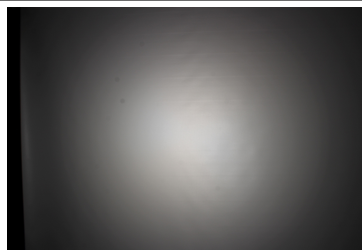
LED CDM-9 (Dim-To-Warm)
 FWHM 36.0°
 Efficiency 76 %
 Peak intensity 1.400 cd/lm
 Required components:
 C13658_CLAMP-VERO13-18
 F13671_ANGE-RZ-LENS
 Bender Wirth: 490 Typ L1



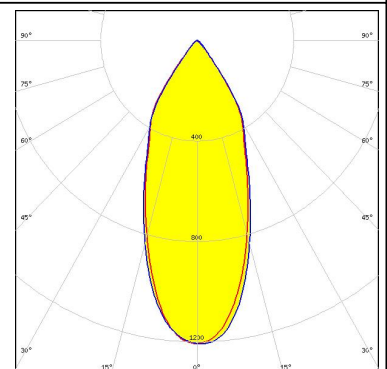
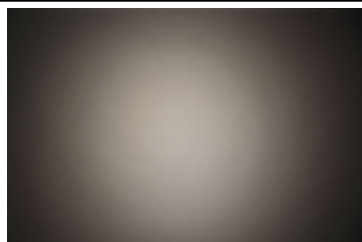
LED CTM-14 (Tunable White)
 FWHM 38.0°
 Efficiency 76 %
 Peak intensity 1.300 cd/lm
 Required components:
 C13584_CLAMP-VERO29
 F13671_ANGE-RZ-LENS
 Bender Wirth: 442 Typ L3



LED CTM-14 (Tunable White)
 FWHM 35.0°
 Efficiency 80 %
 Peak intensity 1.500 cd/lm
 Required components:
 C13584_CLAMP-VERO29
 Bender Wirth: 442 Typ L3



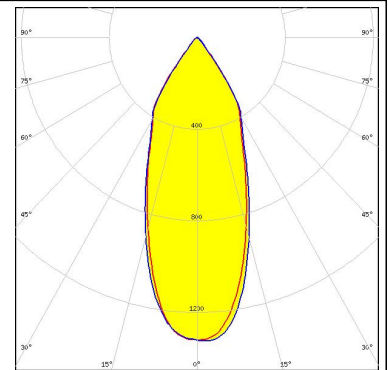
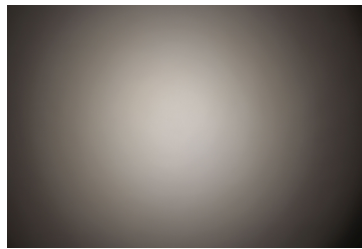
LED CTM-22 (Tunable White)
 FWHM 42.0°
 Efficiency 76 %
 Peak intensity 1.200 cd/lm
 Required components:
 C13584_CLAMP-VERO29
 F13671_ANGE-RZ-LENS
 Bender Wirth: 494 Typ L3



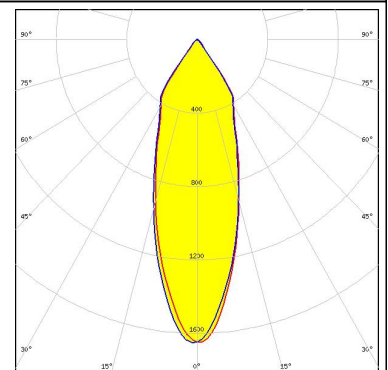
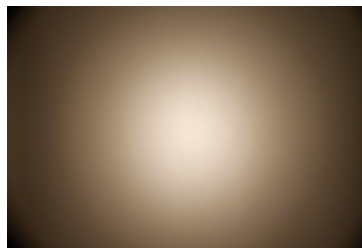
PHOTOMETRIC DATA (MEASURED):



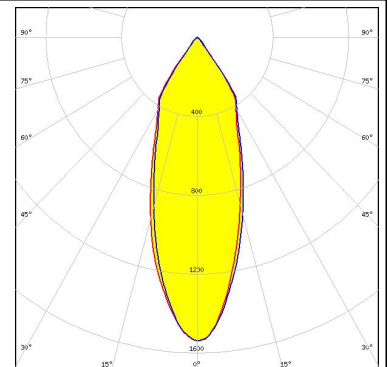
LED CTM-22 (Tunable White)
 FWHM 40.0°
 Efficiency 80 %
 Peak intensity 1.300 cd/lm
 Required components:
 C13584_CLAMP-VERO29
 Bender Wirth: 494 Typ L3



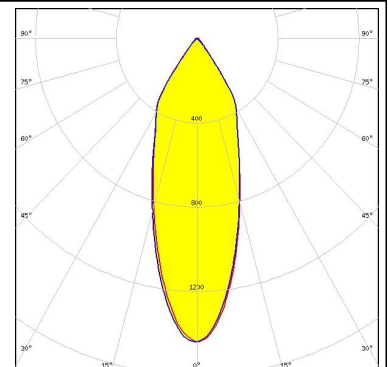
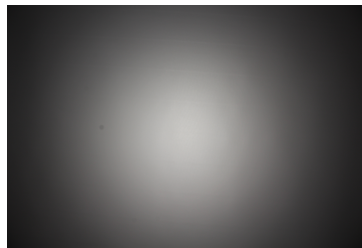
LED CXM-14
 FWHM 34.0°
 Efficiency 84 %
 Peak intensity 1.660 cd/lm
 Required components:
 TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1




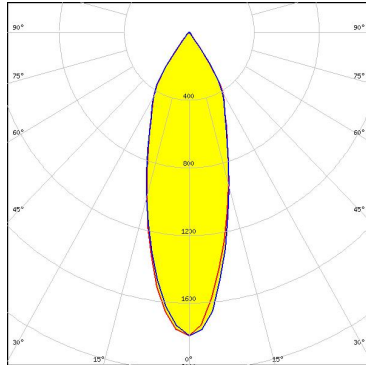
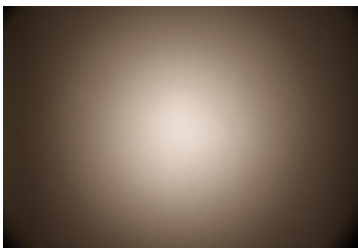
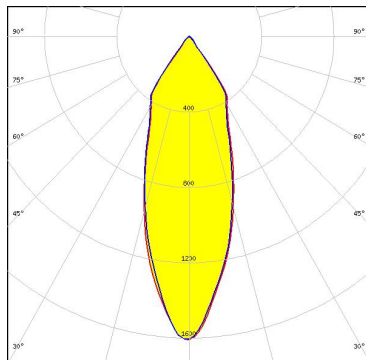

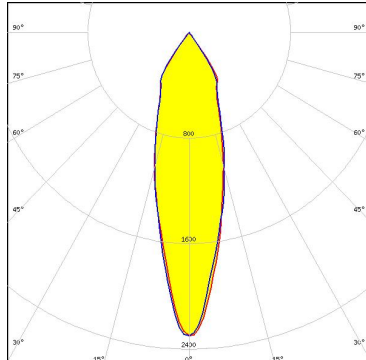
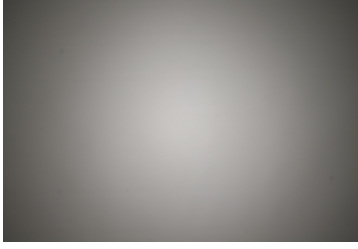
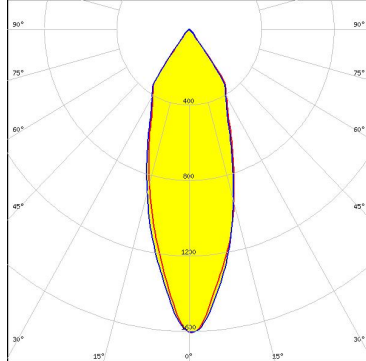
LED COB J-Type
 FWHM 36.0°
 Efficiency 82 %
 Peak intensity 1.500 cd/lm
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 463 Typ L2



LED COB J-Type
 FWHM 35.0°
 Efficiency 79 %
 Peak intensity 1.400 cd/lm
 Required components:
 F13671_ANGE-RZ-LENS
 IDEAL: 50-2103NC + 50-2100AN



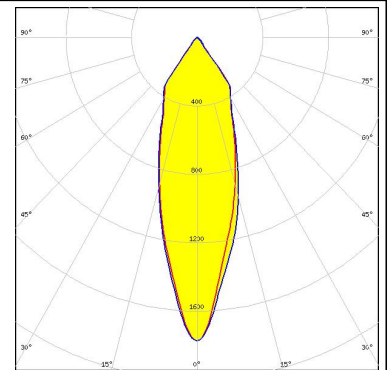
PHOTOMETRIC DATA (MEASURED):

<p>NICHIA</p> <p>LED COB J-Type FWHM 33.0° Efficiency 82 % Peak intensity 1.790 cd/lm Required components: IDEAL: 50-2103NC + 50-2100AN</p>		
<p>NICHIA</p> <p>LED COB L-Type (LES 11) FWHM 35.0° Efficiency 85 % Peak intensity 1.610 cd/lm Required components: Molex: 180580-0005</p>		
<p>NICHIA</p> <p>LED COB L-Type (LES 11) FWHM 28.0° Efficiency 87 % Peak intensity 2.300 cd/lm Required components: TE: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p>NICHIA</p> <p>LED COB L-Type (LES 11) FWHM 34.0° Efficiency 82 % Peak intensity 1.600 cd/lm Required components: C13658_CLAMP-VERO13-18 Bender Wirth: 438 Typ L1</p>		

PHOTOMETRIC DATA (MEASURED):

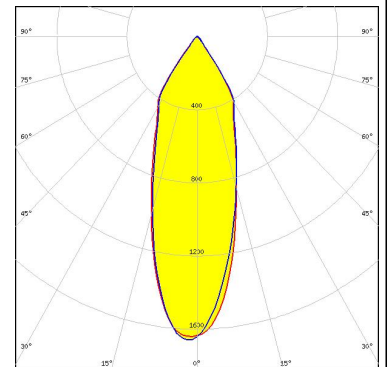


LED COB L-Type (LES 9)
FWHM 31.0°
Efficiency 84 %
Peak intensity 1.800 cd/lm
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 438 Typ L1



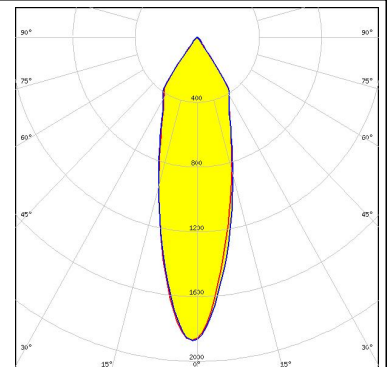
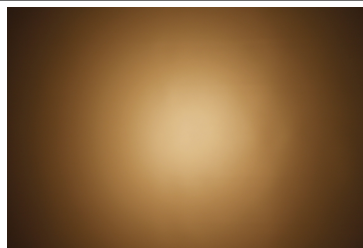
OSRAM

LED PrevaLED Core AC (LEP-2000)
FWHM 34.0°
Efficiency 84 %
Peak intensity 1.670 cd/lm
Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1



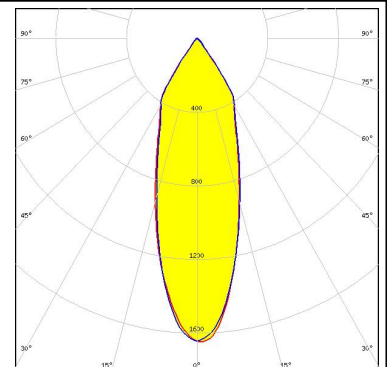
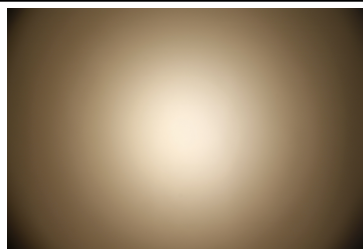
OSRAM

LED PrevaLED Core AC (LEP-800)
FWHM 29.0°
Efficiency 84 %
Peak intensity 1.880 cd/lm
Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1



OSRAM

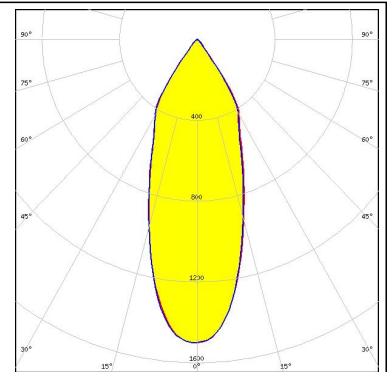
LED PrevaLED Core Z3 LES19
FWHM 33.0°
Efficiency 83 %
Peak intensity 1.650 cd/lm
Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1



PHOTOMETRIC DATA (MEASURED):

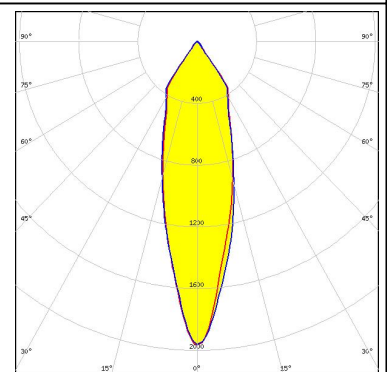
OSRAM

LED PrevaLED Core Z3 LES23
 FWHM 38.0°
 Efficiency 85 %
 Peak intensity 1.500 cd/lm
 Required components:
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



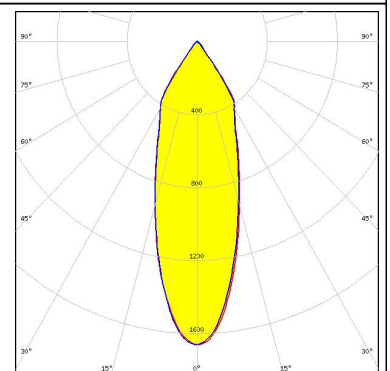
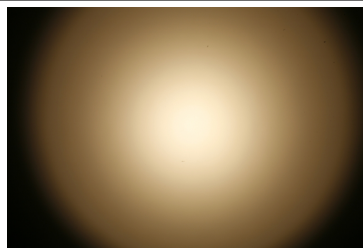
OSRAM

LED PrevaLED Core Z3 LES9
 FWHM 28.0°
 Efficiency 84 %
 Peak intensity 1.960 cd/lm
 Required components:
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



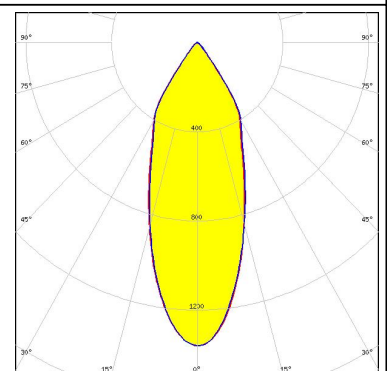
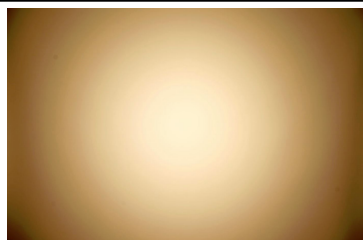
OSRAM

LED PrevaLED Core Z4 LES19
 FWHM 34.0°
 Efficiency 84 %
 Peak intensity 1.700 cd/lm
 Required components:
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



OSRAM

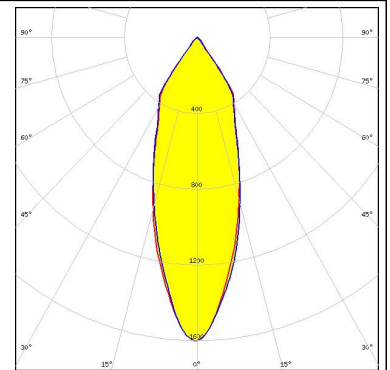
LED PrevaLED Core Z4 LES19
 FWHM 38.0°
 Efficiency 78 %
 Peak intensity 1.400 cd/lm
 Required components:
 F13671_ANGE-RZ-LENS
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



PHOTOMETRIC DATA (MEASURED):

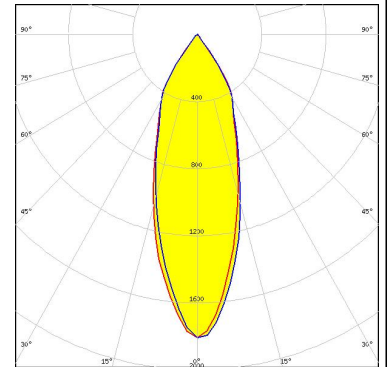
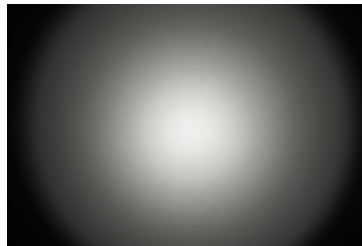
OSRAM
Opto Semiconductors

LED Soleriq S13
 FWHM 35.0°
 Efficiency 82 %
 Peak intensity 1.600 cd/lm
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 437 Typ L1



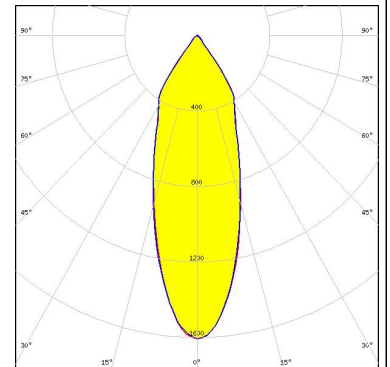
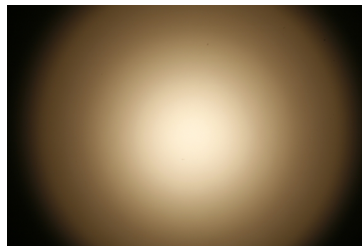
OSRAM
Opto Semiconductors

LED Soleriq S13
 FWHM 33.0°
 Efficiency 85 %
 Peak intensity 1.800 cd/lm
 Required components:
 TE: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1



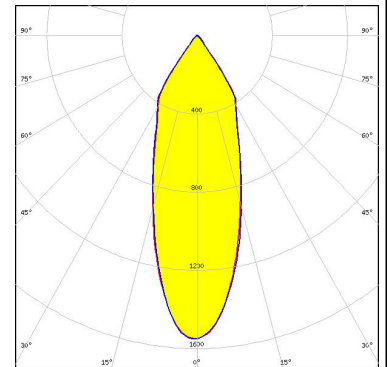
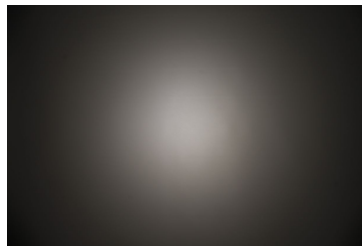
OSRAM
Opto Semiconductors

LED Soleriq S19
 FWHM 35.0°
 Efficiency 84 %
 Peak intensity 1.610 cd/lm
 Required components:
 TE: 2213407-2 + OPTIC CLIP Z50 TYPE1 2213194-1



OSRAM
Opto Semiconductors

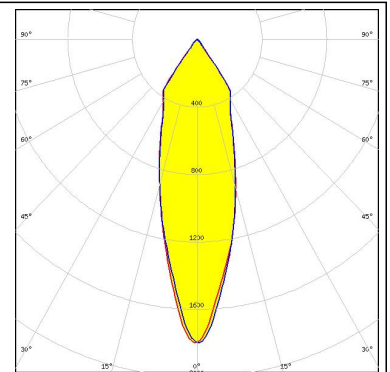
LED Soleriq S19
 FWHM 35.0°
 Efficiency 82 %
 Peak intensity 1.600 cd/lm
 Required components:
 C13584_CLAMP-VERO29
 Bender Wirth: 462 Typ L3



PHOTOMETRIC DATA (MEASURED):

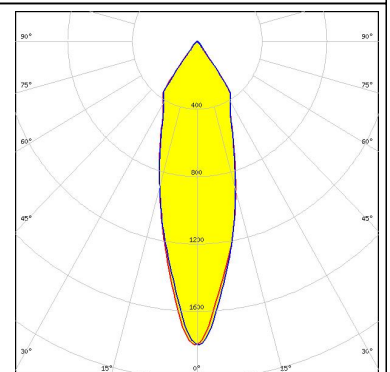
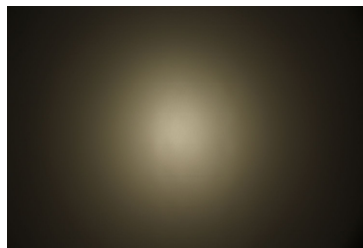
PHILIPS

LED Fortimo SLM L09 Standard
FWHM 30.0°
Efficiency 83 %
Peak intensity 1.800 cd/lm
Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1



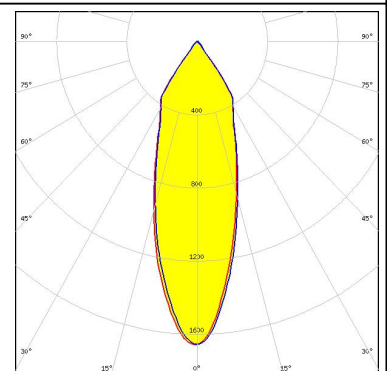
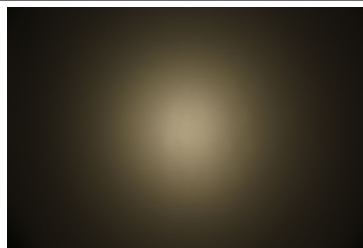
PHILIPS

LED Fortimo SLM L09 Standard
FWHM 30.0°
Efficiency 83 %
Peak intensity 1.800 cd/lm
Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1



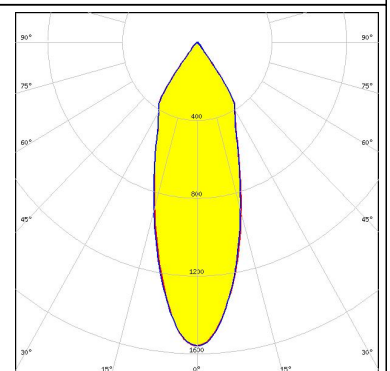
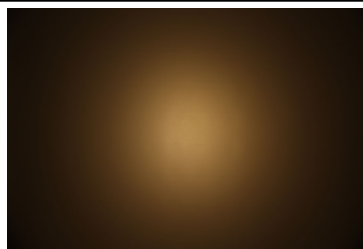
PHILIPS

LED Fortimo SLM L13 Standard
FWHM 33.0°
Efficiency 82 %
Peak intensity 1.700 cd/lm
Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1



PHILIPS

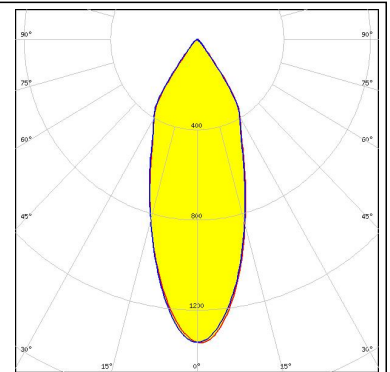
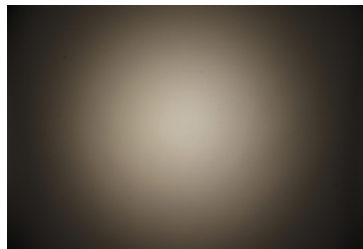
LED Fortimo SLM L15 Standard
FWHM 34.0°
Efficiency 81 %
Peak intensity 1.560 cd/lm
Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1



PHOTOMETRIC DATA (MEASURED):

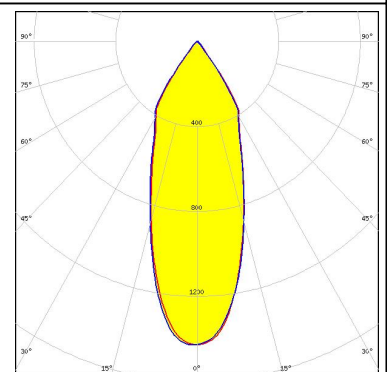
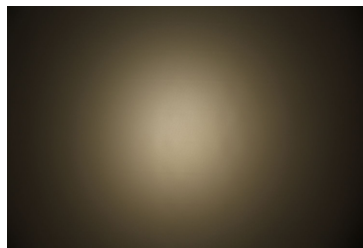
PHILIPS

LED Fortimo SLM L15 Standard
FWHM 38.0°
Efficiency 76 %
Peak intensity 1.300 cd/lm
Required components:
F13671_ANGE-RZ-LENS
TE: OPTIC CLIP Z50 TYPE1 2213194-1



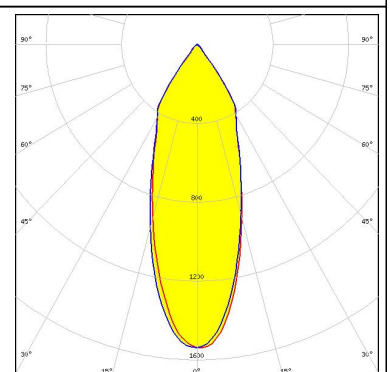
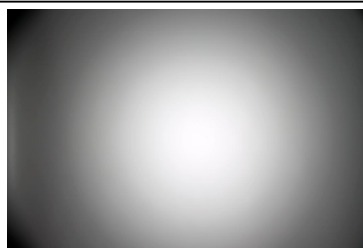
PHILIPS

LED Fortimo SLM L19 Standard
FWHM 37.0°
Efficiency 80 %
Peak intensity 1.430 cd/lm
Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1



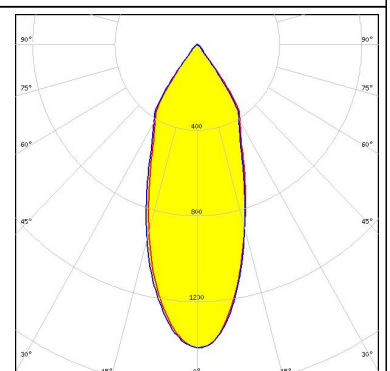
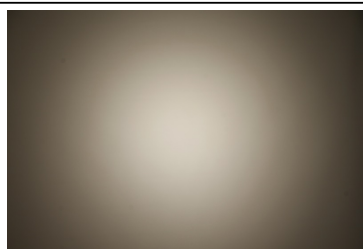
SAMSUNG

LED LC026B / 033B / 040B
FWHM 36.0°
Efficiency 84 %
Peak intensity 1.500 cd/lm
Required components:
TE: 2213258-2 + OPTIC CLIP Z50 TYPE1 2213194-1



SAMSUNG

LED LC026B / 033B / 040B
FWHM 39.0°
Efficiency 82 %
Peak intensity 1.400 cd/lm
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 450 Typ L2

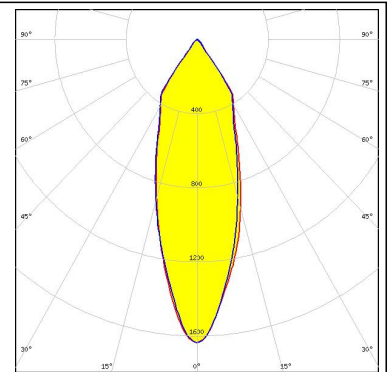


PHOTOMETRIC DATA (MEASURED):

SAMSUNG

LED LC040C
 FWHM 33.0°
 Efficiency 82 %
 Peak intensity 1.600 cd/lm
 Required components:

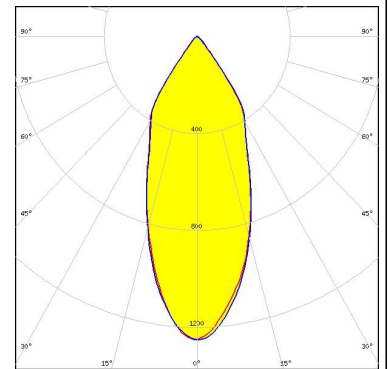
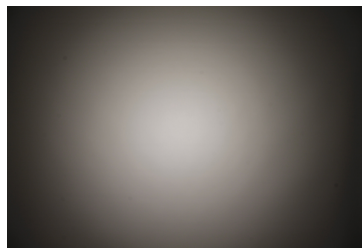
TE: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



SEOUL SEMICONDUCTOR

LED AC Zhaga COB
 FWHM 41.0°
 Efficiency 79 %
 Peak intensity 1.300 cd/lm
 Required components:

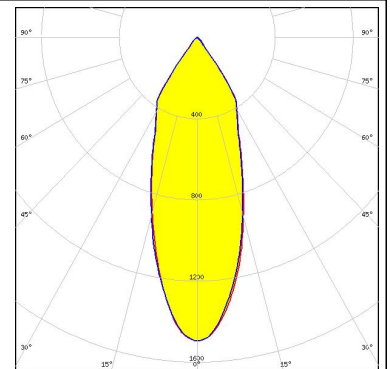
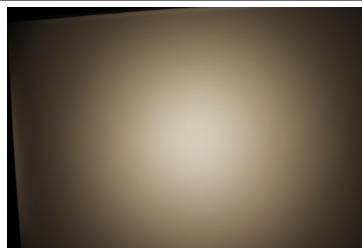
F13671_ANGE-RZ-LENS
 Optosource: SEHSMJD-A



SEOUL SEMICONDUCTOR

LED MJT COB LES 14.5
 FWHM 37.0°
 Efficiency 82 %
 Peak intensity 1.500 cd/lm
 Required components:

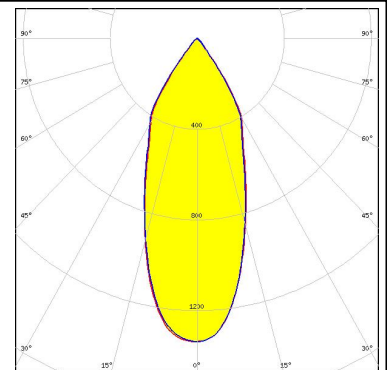
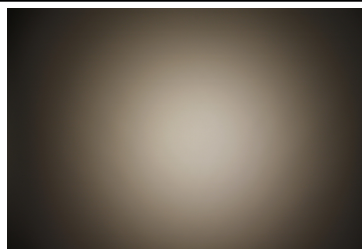
TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



SEOUL SEMICONDUCTOR

LED MJT COB LES 22
 FWHM 40.0°
 Efficiency 81 %
 Peak intensity 1.300 cd/lm
 Required components:

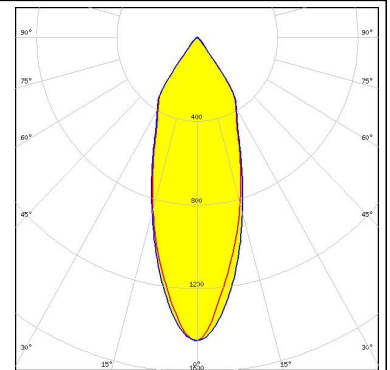
C13584_CLAMP-VERO29
 Bender Wirth: 431 Typ L3



PHOTOMETRIC DATA (MEASURED):

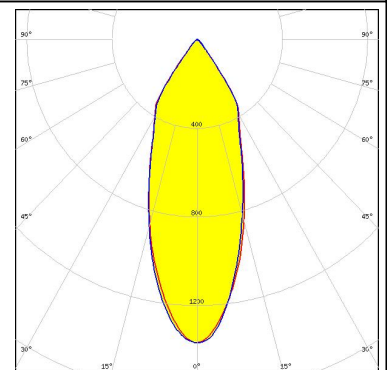
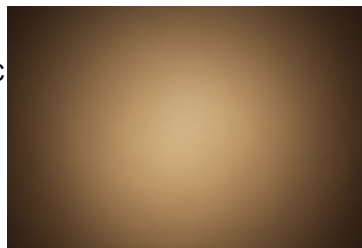
TRIDONIC

LED SLE G1 11mm 1000lm 927 Sunset R EXC
 FWHM 35.0°
 Efficiency 78 %
 Peak intensity 1.500 cd/lm
 Required components:
 F13671_ANGE-RZ-LENS
 TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



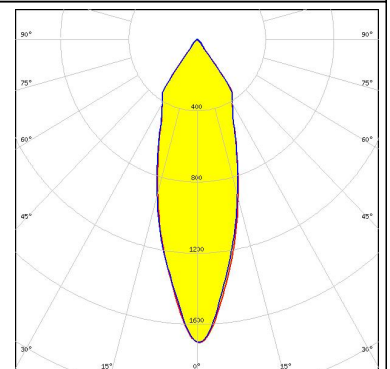
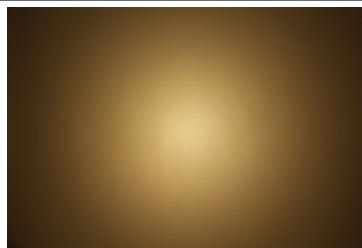
TRIDONIC

LED SLE G1 15mm 2000lm 927 Sunset R EXC
 FWHM 38.0°
 Efficiency 78 %
 Peak intensity 1.400 cd/lm
 Required components:
 F13671_ANGE-RZ-LENS
 TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



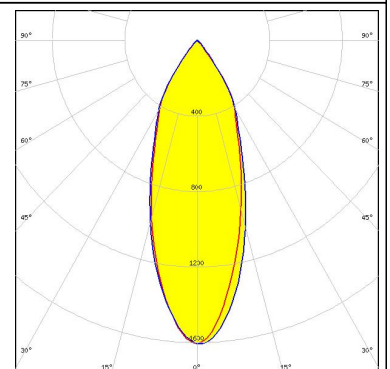
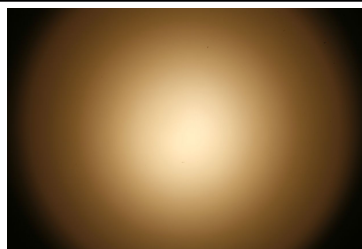
TRIDONIC

LED SLE G5 LES11
 FWHM 32.0°
 Efficiency 83 %
 Peak intensity 1.700 cd/lm
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 434 Typ L1

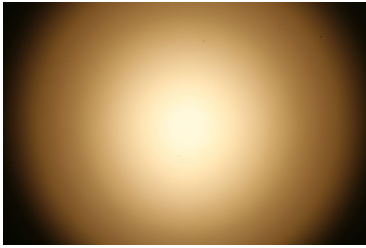
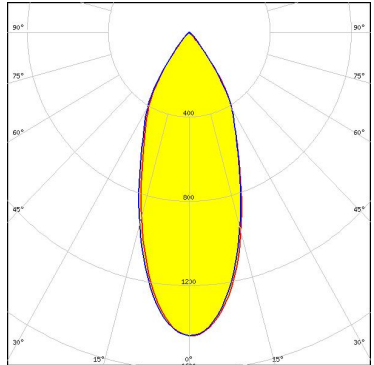
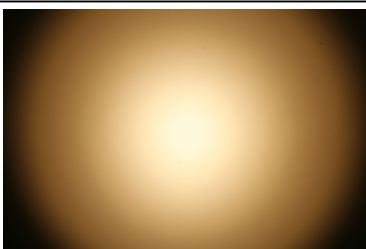
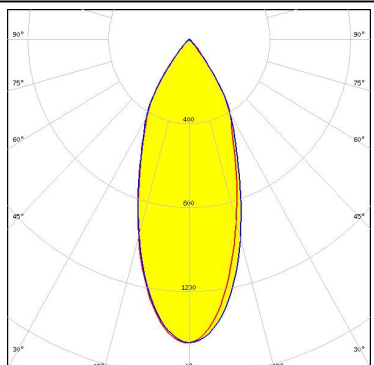
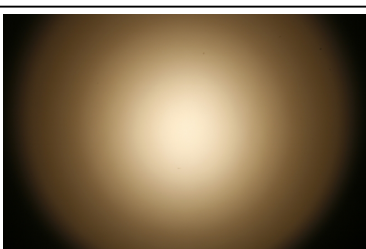
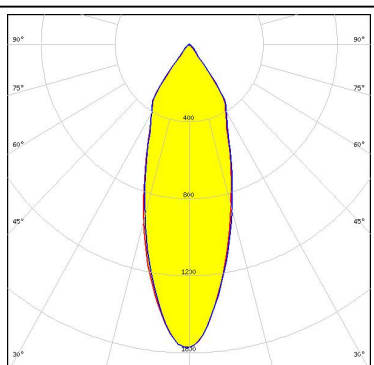
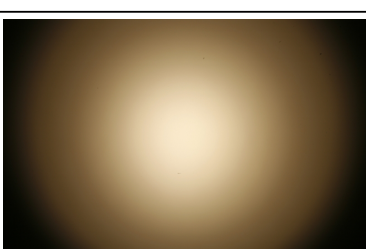
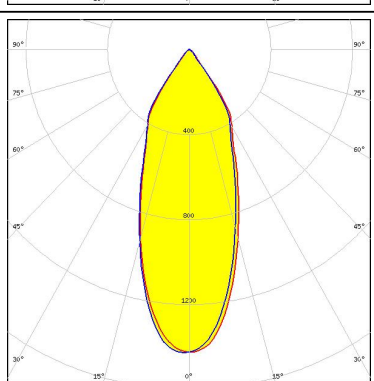


VS LIGHTING SOLUTIONS

LED WU-M-461
 FWHM 37.0°
 Efficiency 84 %
 Peak intensity 1.600 cd/lm
 Required components:
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



PHOTOMETRIC DATA (MEASURED):

<p>VS LIGHTING SOLUTIONS</p> <p>LED WU-M-462</p> <p>FWHM 41.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 1.440 cd/lm</p> <p>Required components:</p> <p>TE: OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p>VS LIGHTING SOLUTIONS</p> <p>LED WU-M-464</p> <p>FWHM 41.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 1.440 cd/lm</p> <p>Required components:</p> <p>TE: OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p>VS LIGHTING SOLUTIONS</p> <p>LED WU-M-484</p> <p>FWHM 35.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 1.570 cd/lm</p> <p>Required components:</p> <p>TE: OPTIC CLIP Z50 TYPE1 2213194-1</p>		
<p>VS LIGHTING SOLUTIONS</p> <p>LED WU-M-485</p> <p>FWHM 39.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 1.430 cd/lm</p> <p>Required components:</p> <p>TE: OPTIC CLIP Z50 TYPE1 2213194-1</p>		

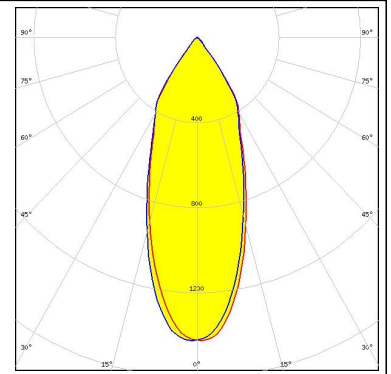
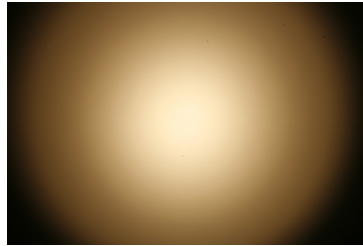
PHOTOMETRIC DATA (MEASURED):




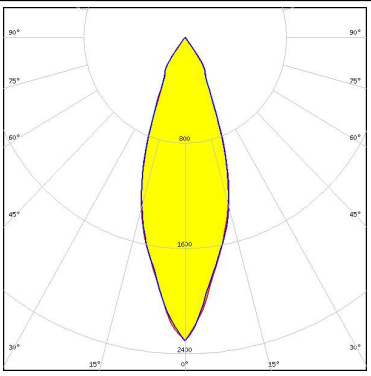

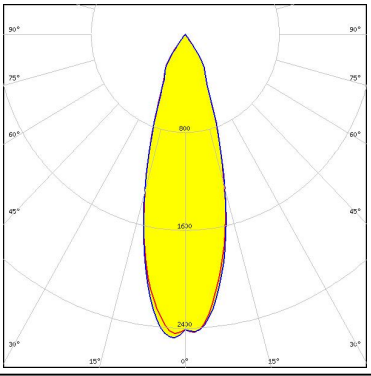

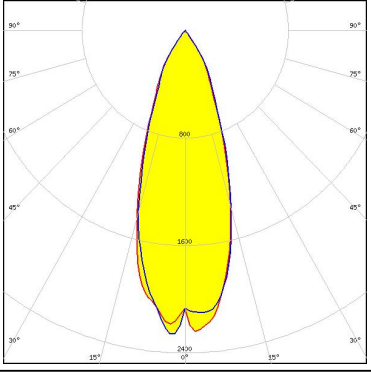

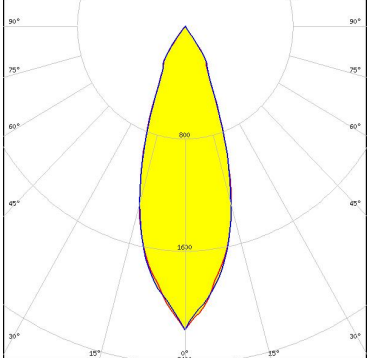
LED WU-M-486
FWHM 39.0°
Efficiency 83 %
Peak intensity 1.430 cd/lm

Required components:

TE: OPTIC CLIP Z50 TYPE1 2213194-1



PHOTOMETRIC DATA (SIMULATED):

<p> bridgelux</p> <p>LED V10 Gen7 FWHM 34.0° Efficiency 89 % Peak intensity 2.300 cd/lm Required components: C13658_CLAMP-VERO13-18 Bender Wirth: 434 Typ L1</p>	
<p> bridgelux</p> <p>LED V13 Gen7 FWHM 32.0° Efficiency 89 % Peak intensity 2.500 cd/lm Required components: IDEAL: 50-2103CT + 50-2100AN</p>	
<p> bridgelux</p> <p>LED V22 Gen7 FWHM 34.0° Efficiency 93 % Peak intensity 2.260 cd/lm Required components: IDEAL: 50-2204-CT + 50-2100AN</p>	
<p> CREE</p> <p>LED CXA/B 1830 FWHM 35.0° Efficiency 87 % Peak intensity 2.200 cd/lm Required components: TE: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>	

PHOTOMETRIC DATA (SIMULATED):



LED CXM-14
FWHM 36.0°
Efficiency 82 %
Peak intensity 1.500 cd/lm
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 433 Typ L1

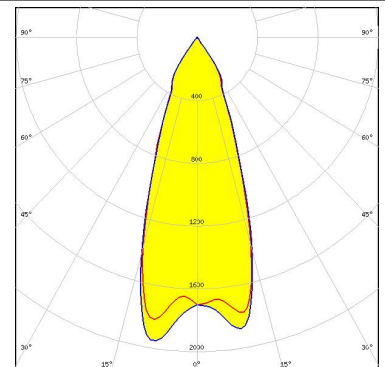


LED CXM-9
FWHM 33.0°
Efficiency 83 %
Peak intensity 1.700 cd/lm
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 434 Typ L1



Opto Semiconductors


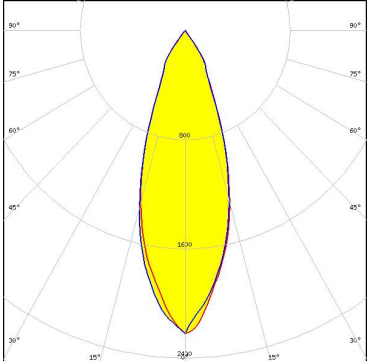
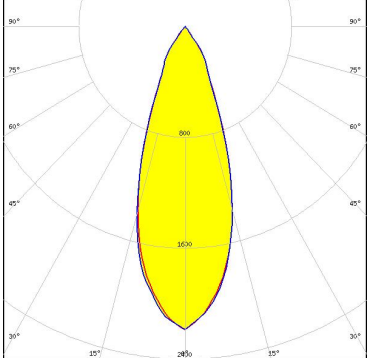
LED Soleriq S15
FWHM 36.0°
Efficiency 89 %
Peak intensity 1.954 cd/lm
Required components:
TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



SEOUL SEMICONDUCTOR

LED ZC12/18
FWHM 36.0°
Efficiency 82 %
Peak intensity 1.500 cd/lm
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 433 Typ L1

PHOTOMETRIC DATA (SIMULATED):

 SEOUL SEMICONDUCTOR	
LED	ZC4/6
FWHM	33.0°
Efficiency	83 %
Peak intensity	1.700 cd/lm
Required components: C13658_CLAMP-VERO13-18 Bender Wirth: 434 Typ L1	
TRIDONIC	
LED	SLE G6 LES15
FWHM	35.0°
Efficiency	88 %
Peak intensity	2.200 cd/lm
Required components: TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1	
	
TRIDONIC	
LED	SLE G6 LES17
FWHM	36.0°
Efficiency	90 %
Peak intensity	2.190 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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LEDiL Oy

Joensuunkatu 13
FI-24240 SALO
Finland

LEDiL Inc.

228 West Page Street
Suite D
Sycamore IL 60178
USA

Local sales and technical support

[www.ledil.com/
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