

ANGELA-XW

White version with ~70° wide beam

TECHNICAL SPECIFICATIONS:

Dimensions	Ø 119.5 mm
Height	74.3 mm
Fastening	socket
ROHS compliant	yes 

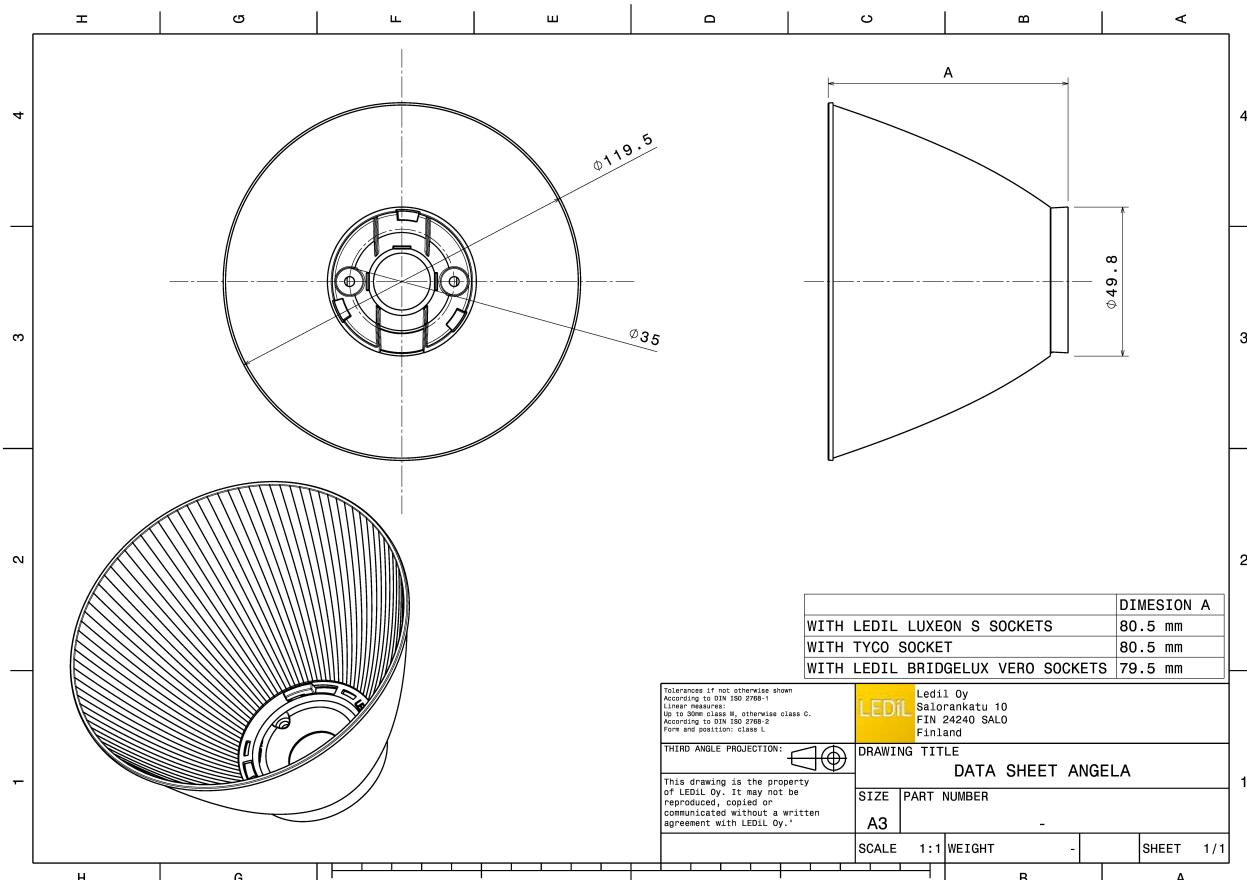


MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish	Coating
ANGELA-XW	Reflector	HRPC	white		

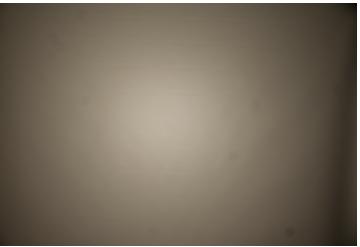
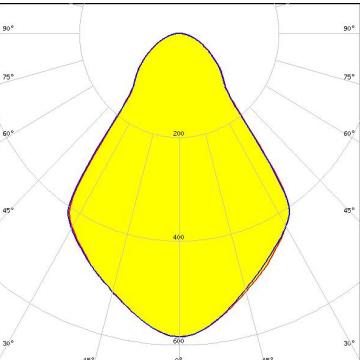
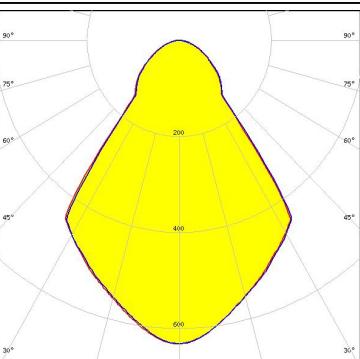
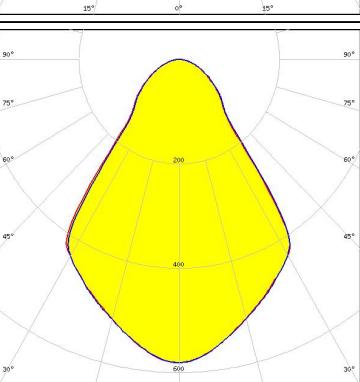
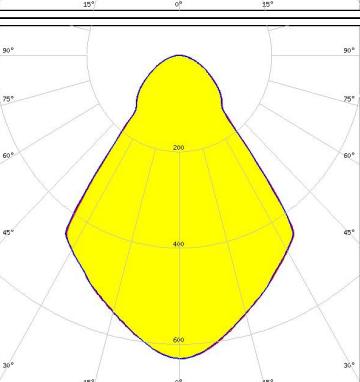
ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
F13840_ANGELA-XW	180	80	40	8.1
» Box size: 480 x 280 x 300 mm				

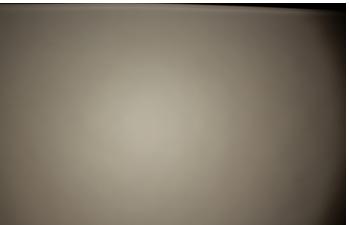
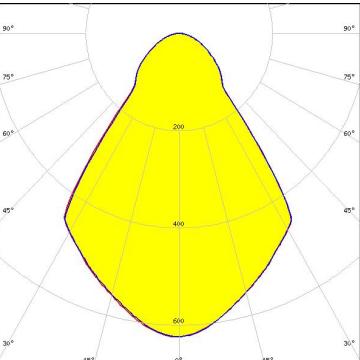
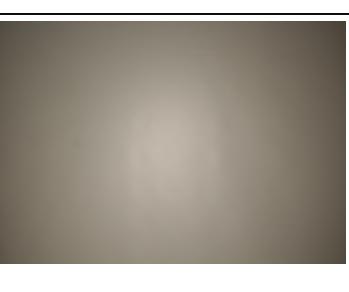
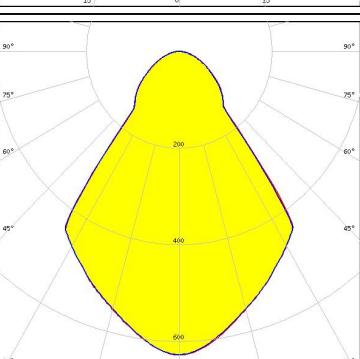
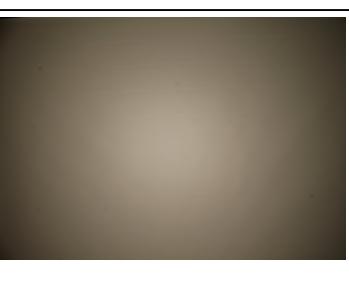
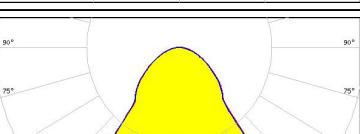
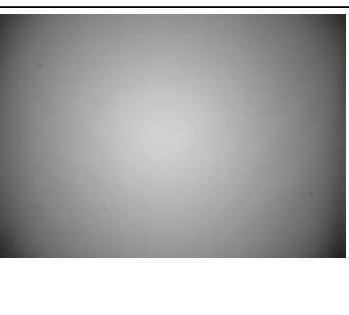
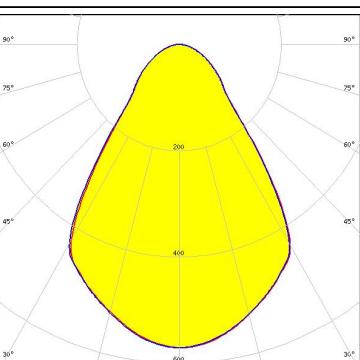


See also our general installation guide: www.ledil.com/installation_guide

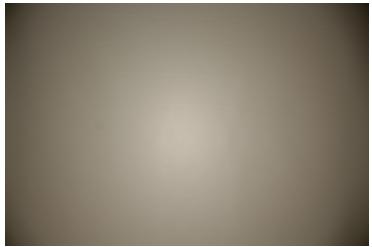
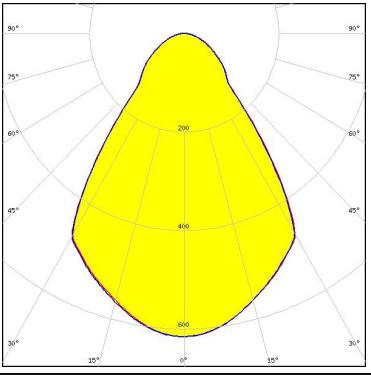
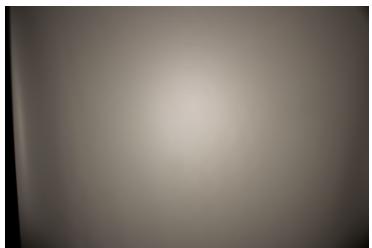
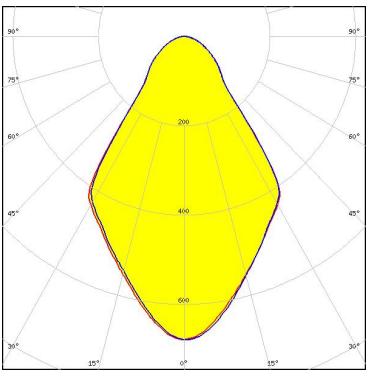
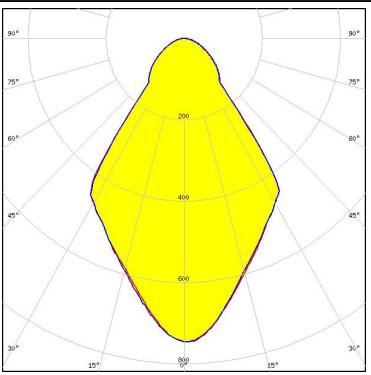
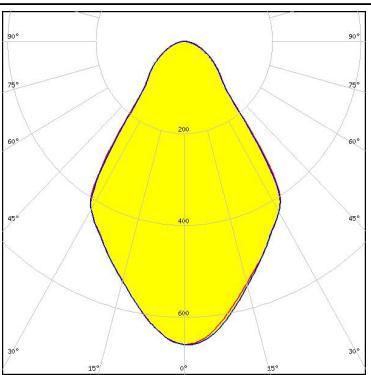
PHOTOMETRIC DATA (MEASURED):

	<p>LED V10 Gen7 FWHM 72.0° Efficiency 87 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White Required components: C13658_CLAMP-VERO13-18 F13671_ANGE-RZ-LENS Bender Wirth: 434 Typ L1</p>		
	<p>LED V13 Gen7 FWHM 72.0° Efficiency 92 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White Required components: TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		
	<p>LED V13 Gen7 FWHM 72.0° Efficiency 87 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White Required components: F13671_ANGE-RZ-LENS TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		
	<p>LED Vero SE 13 FWHM 73.0° Efficiency 93 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White Required components: C16402_CLAMP-VEROSE-13-18</p>		

PHOTOMETRIC DATA (MEASURED):

	<p>LED Vero SE 18 FWHM 73.0° Efficiency 93 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White Required components: C16402_CLAMP-VEROSE-13-18</p>		
	<p>LED VERO13 FWHM 73.0° Efficiency 93 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White Required components: C13658_CLAMP-VERO13-18</p>		
	<p>LED VERO18 FWHM 72.0° Efficiency 93 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White Required components: C13658_CLAMP-VERO13-18</p>		
	<p>LED VERO29 FWHM 72.0° Efficiency 88 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White Required components: C13584_CLAMP-VERO29 F13671_ANGE-RZ-LENS</p>		

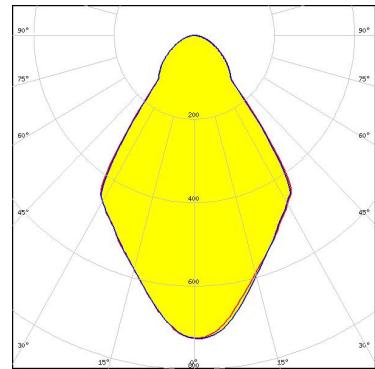
PHOTOMETRIC DATA (MEASURED):

	<p>LED VERO29 FWHM 72.0° Efficiency 94 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White Required components: C13584_CLAMP-VERO29</p>		
	<p>LED Vesta TW 15mm DP FWHM 70.0° Efficiency 88 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour Tunable White Required components: C13658_CLAMP-VERO13-18 F13671_ANGE-RZ-LENS Bender Wirth: 482 Typ L2</p>		
	<p>LED Vesta TW 15mm DP FWHM 70.0° Efficiency 94 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour Tunable White Required components: C13658_CLAMP-VERO13-18 Bender Wirth: 482 Typ L2</p>		
	<p>LED Vesta TW 18mm (31W) DP FWHM 70.0° Efficiency 87 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour Tunable White Required components: C13584_CLAMP-VERO29 F13671_ANGE-RZ-LENS Bender Wirth: 483 Typ L3</p>		

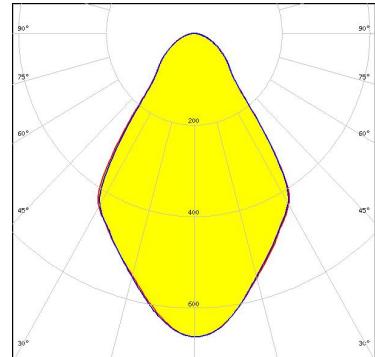
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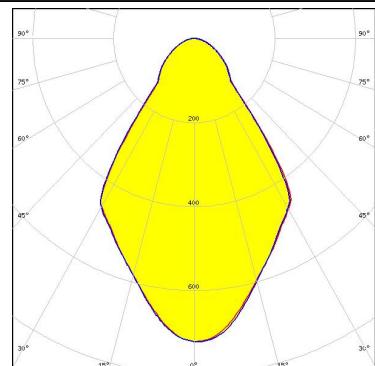
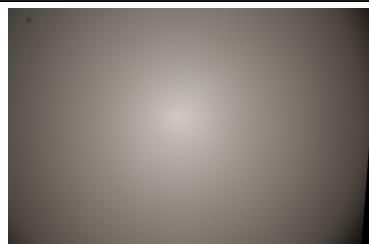
LED Vesta TW 18mm (31W) DP
FWHM 70.0°
Efficiency 93 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour Tunable White
Required components:
 C13584_CLAMP-VERO29
 Bender Wirth: 483 Typ L3



LED Vesta TW 22mm DP
FWHM 69.0°
Efficiency 88 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour Tunable White
Required components:
 C13584_CLAMP-VERO29
 F13671_ANGE-RZ-LENS
 Bender Wirth: 494 Typ L3

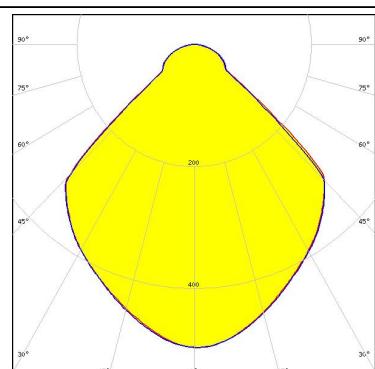
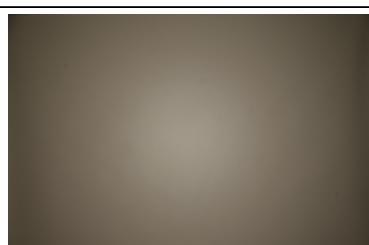


LED Vesta TW 22mm DP
FWHM 69.0°
Efficiency 93 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour Tunable White
Required components:
 C13584_CLAMP-VERO29
 Bender Wirth: 494 Typ L3



CITIZEN

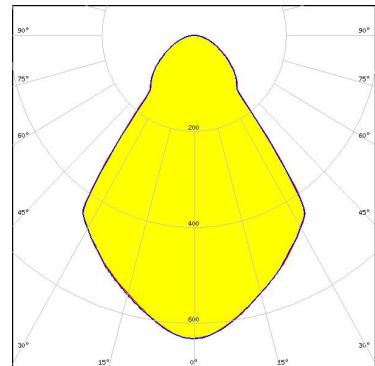
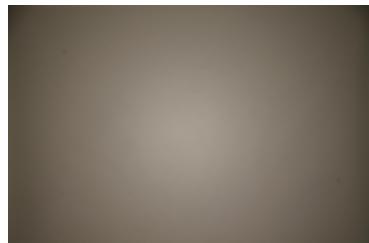
LED CLL02x/CLU02x (LES10)
FWHM 72.0°
Efficiency 93 %
Peak intensity 0.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 434 Typ L1



PHOTOMETRIC DATA (MEASURED):

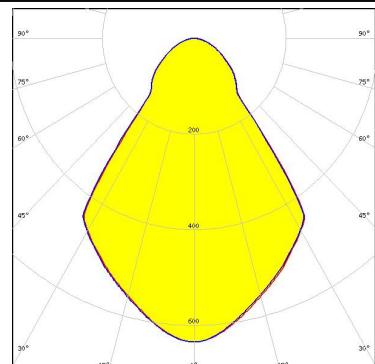
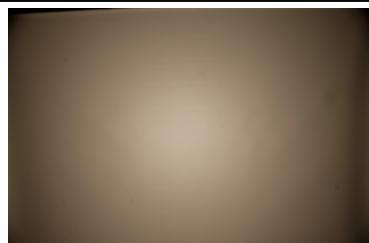
CITIZEN

LED CLL03x/CLU03x
FWHM 72.0°
Efficiency 93 %
Peak intensity 0.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 433 Typ L1



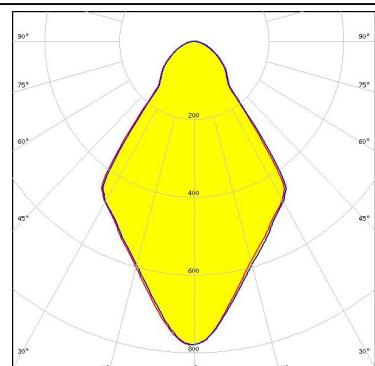
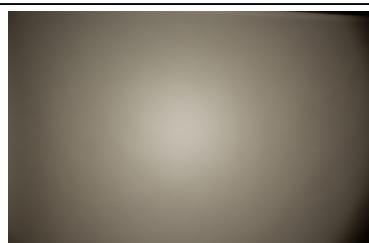
CITIZEN

LED CLL03x/CLU03x
FWHM 71.0°
Efficiency 92 %
Peak intensity 0.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



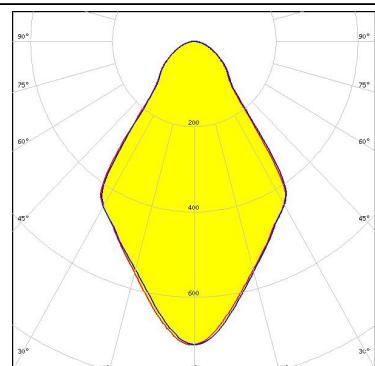
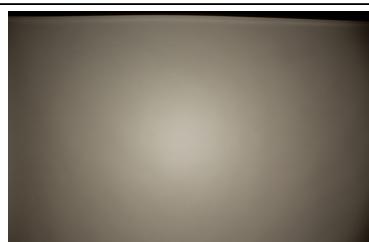
CITIZEN

LED CLL03x/CLU03x
FWHM 69.0°
Efficiency 94 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C16791_CLAMP-Z45-A
TE: 2325807-3



CITIZEN

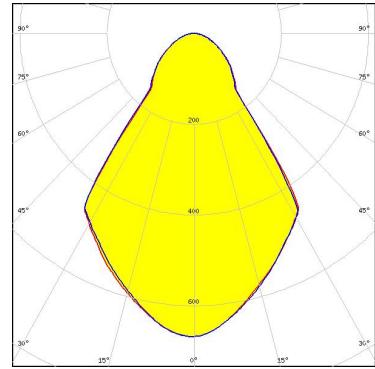
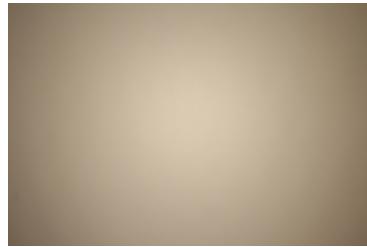
LED CLL03x/CLU03x
FWHM 69.0°
Efficiency 90 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C16791_CLAMP-Z45-A
F13671_ANGE-RZ-LENS
TE: 2325807-3



PHOTOMETRIC DATA (MEASURED):

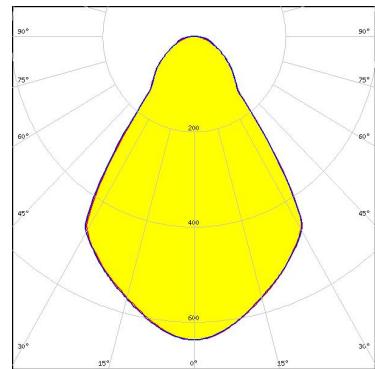
CITIZEN

LED CLL03x/CLU03x
FWHM 70.0°
Efficiency 93 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2103CT + 50-2100AN



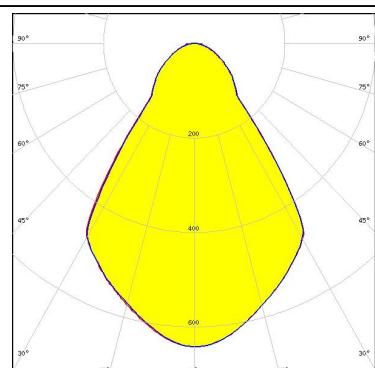
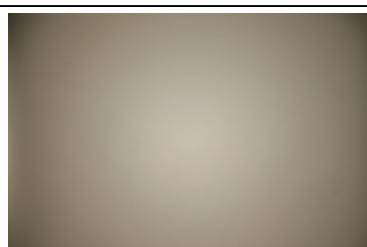
CITIZEN

LED CLL04x/CLU04x
FWHM 70.0°
Efficiency 93 %
Peak intensity 0.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2204-CT + 50-2100AN



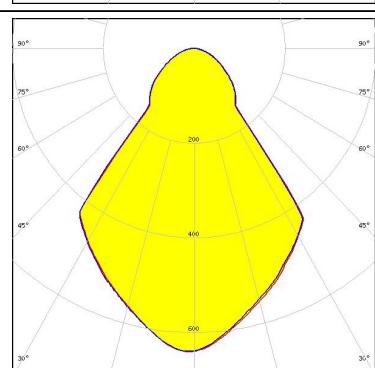
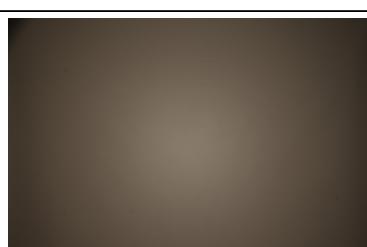
CITIZEN

LED CLL04x/CLU04x
FWHM 70.0°
Efficiency 93 %
Peak intensity 0.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13584_CLAMP-VERO29
Bender Wirth: 431 Typ L3



CITIZEN

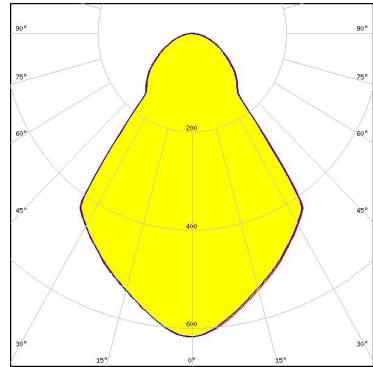
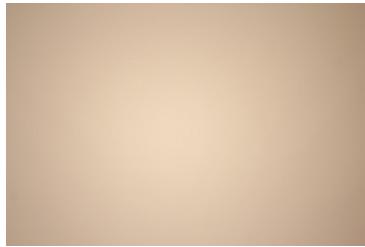
LED CLU700/701/702
FWHM 73.0°
Efficiency 93 %
Peak intensity 0.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 434 Typ L1



PHOTOMETRIC DATA (MEASURED):

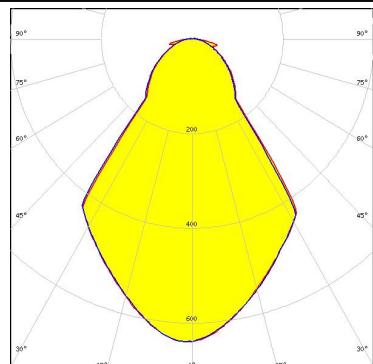
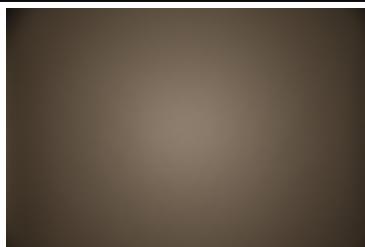
CITIZEN

LED CLU720/721
 FWHM 72.0°
 Efficiency 93 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



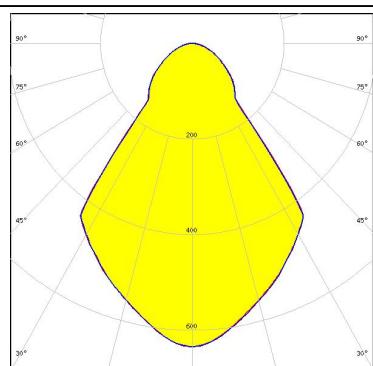
CITIZEN

LED CLU720/721
 FWHM 70.0°
 Efficiency 94 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 IDEAL: 50-2103CT + 50-2100AN



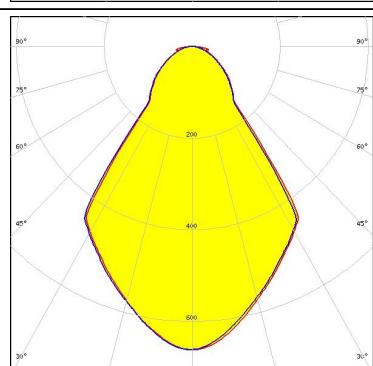
CITIZEN

LED CLU720/721
 FWHM 72.0°
 Efficiency 93 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 433 Typ L1



CITIZEN

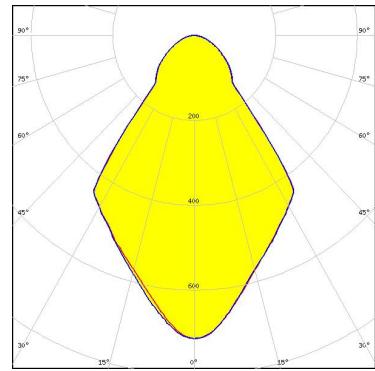
LED CLU730/731
 FWHM 71.0°
 Efficiency 93 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 IDEAL: 50-2204-CT + 50-2100AN



PHOTOMETRIC DATA (MEASURED):

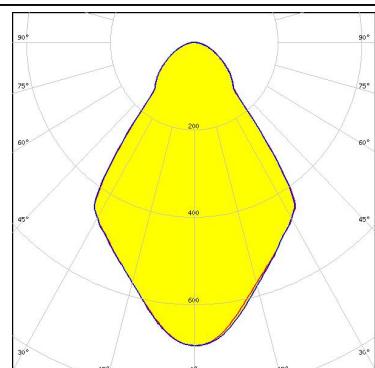
CREE 

LED CMA1840
FWHM 72.0°
Efficiency 95 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14123_CLAMP-CXA15-18



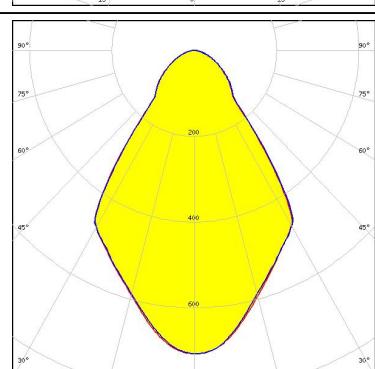
CREE 

LED CMA2550
FWHM 71.0°
Efficiency 94 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14036_CLAMP_CXA25-30



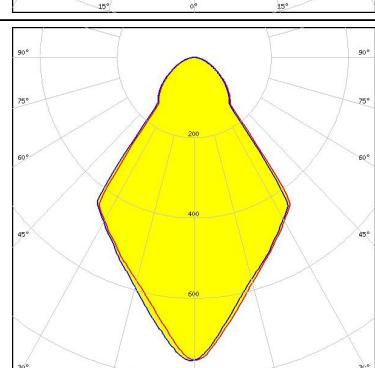
CREE 

LED CMA3090
FWHM 70.0°
Efficiency 94 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14036_CLAMP_CXA25-30



CREE 

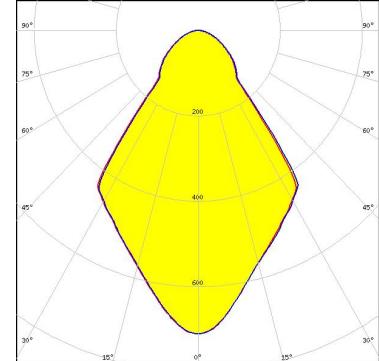
LED CMT14xx
FWHM 71.0°
Efficiency 93 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 434 Typ L1



PHOTOMETRIC DATA (MEASURED):

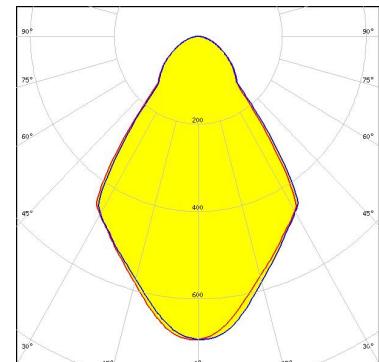
CREE 

LED CMT19xx
FWHM 72.0°
Efficiency 94 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 477 Typ L1



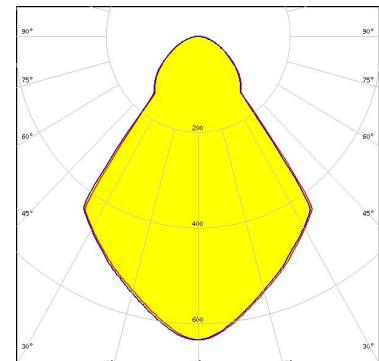
CREE 

LED CMT28xx
FWHM 70.0°
Efficiency 94 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13584_CLAMP-VERO29
Bender Wirth: 471 Typ L3



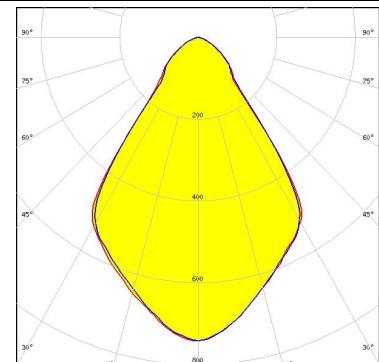
CREE 

LED CXA/B 15xx
FWHM 73.0°
Efficiency 93 %
Peak intensity 0.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 441 Typ L1



CREE 

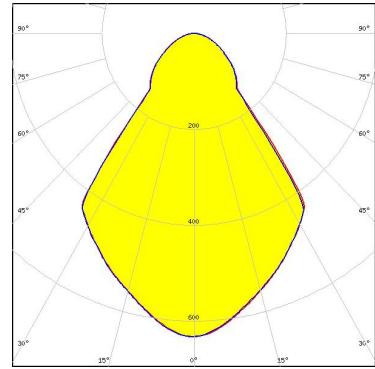
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM 72.0°
Efficiency 94 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14123_CLAMP-CXA15-18



PHOTOMETRIC DATA (MEASURED):

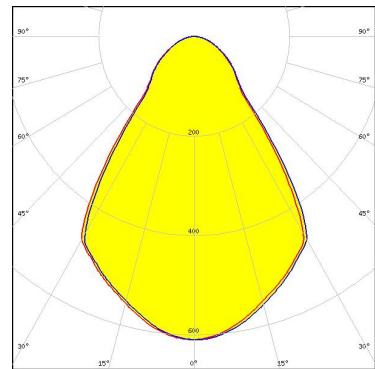
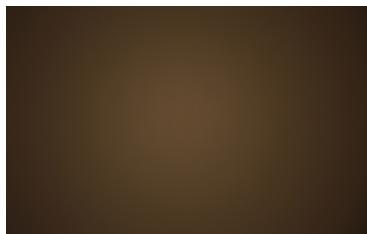
CREE 

LED CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM 72.0°
Efficiency 92 %
Peak intensity 0.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 437 Typ L1



CREE 

LED CXA/B 3590
FWHM 72.0°
Efficiency 94 %
Peak intensity 0.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2303CR + 50-2300AN



EVERLIGHT

LED CHI3030 19W
FWHM 71.0°
Efficiency 91 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13584_CLAMP-VERO29
F13671_ANGE-RZ-LENS
Bender Wirth: 468 Typ L3



EVERLIGHT

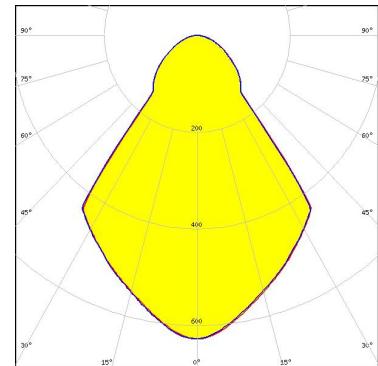
LED CHI3030 29W
FWHM 71.0°
Efficiency 90 %
Peak intensity 0.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13584_CLAMP-VERO29
F13671_ANGE-RZ-LENS
Bender Wirth: 468 Typ L3



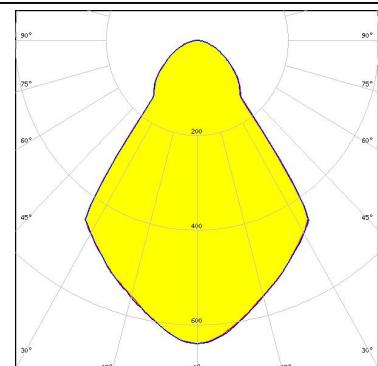
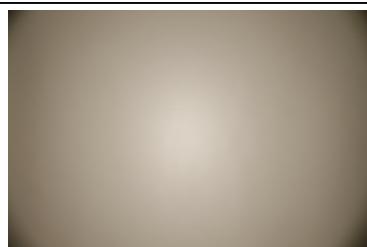
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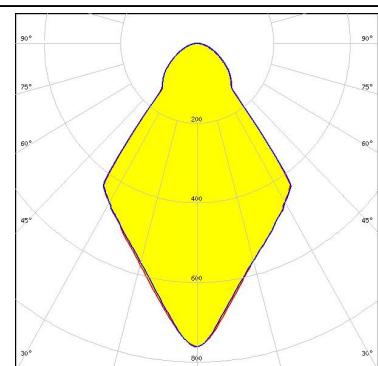
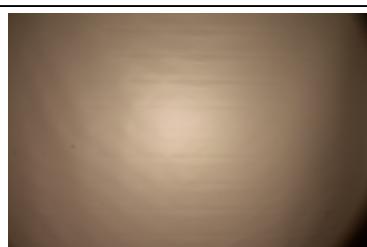
LED LUXEON CoB 1202/1203
 FWHM 73.0°
 Efficiency 93 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 438 Typ L1



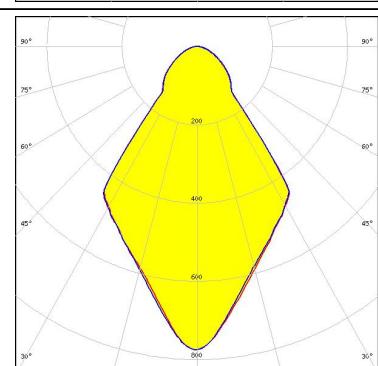
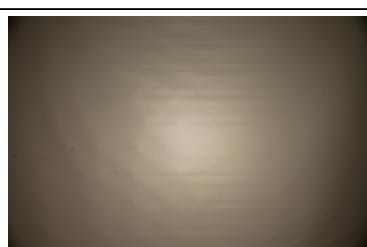
LED LUXEON CoB 1204/1205
 FWHM 72.0°
 Efficiency 93 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



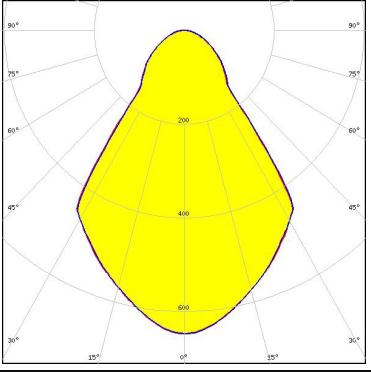
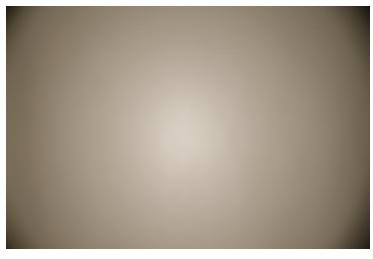
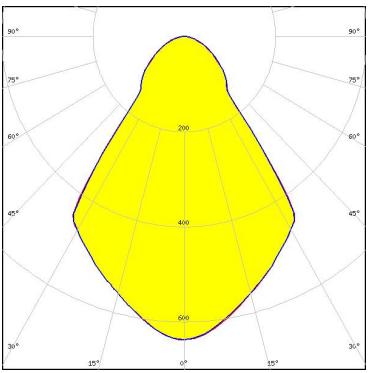
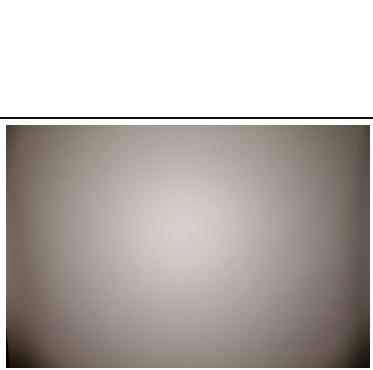
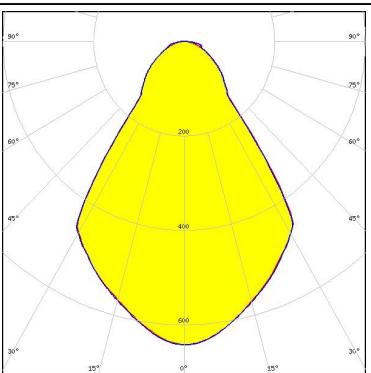
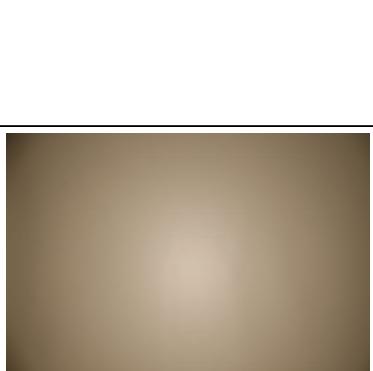
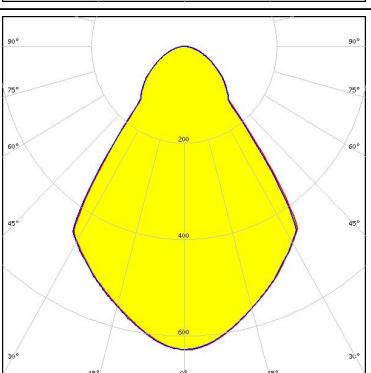
LED LUXEON CoB 1204HD
 FWHM 71.0°
 Efficiency 93 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



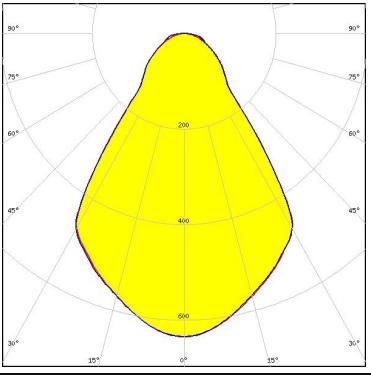
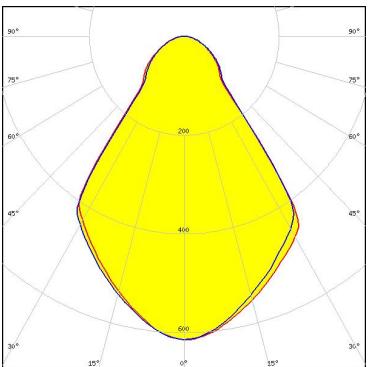
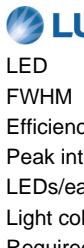
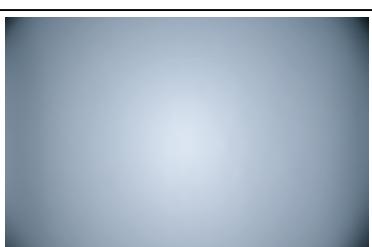
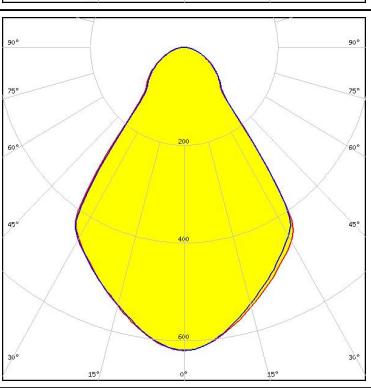
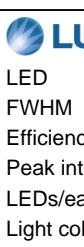
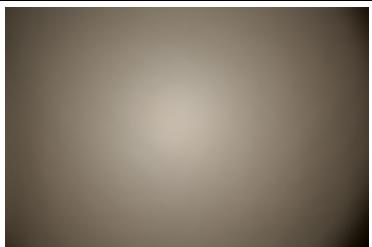
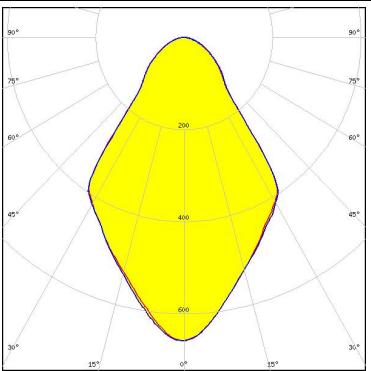
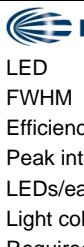
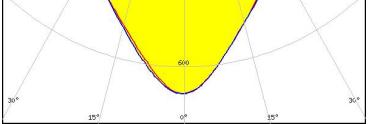
LED LUXEON CoB 1205HD
 FWHM 70.0°
 Efficiency 93 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



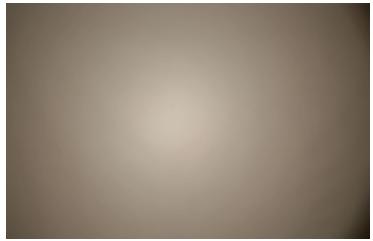
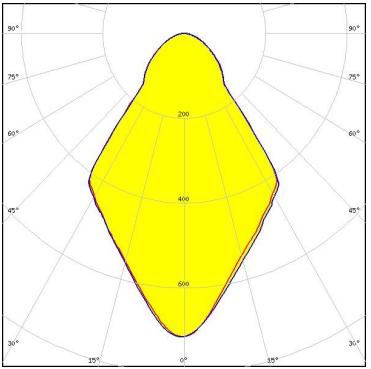
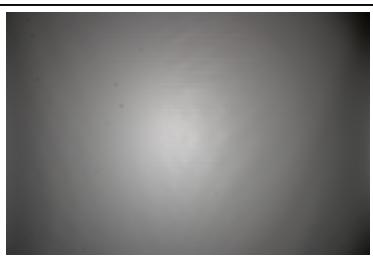
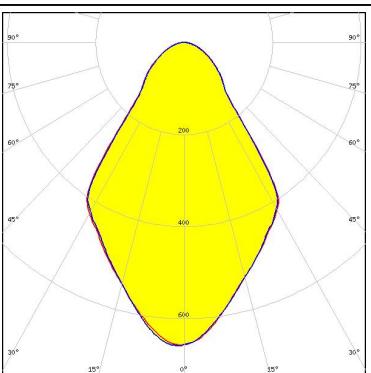
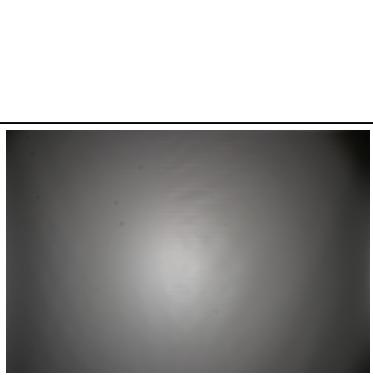
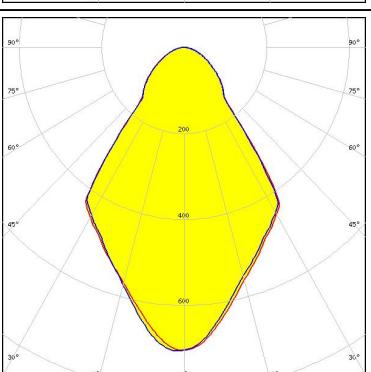
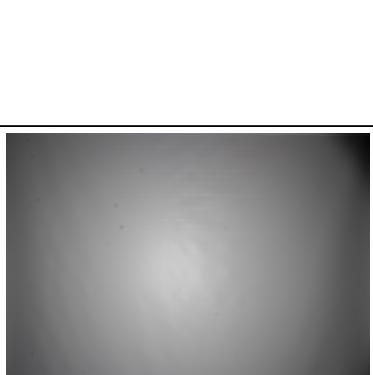
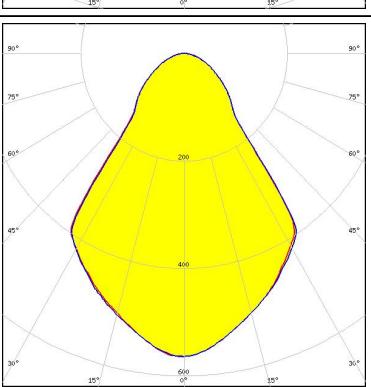
PHOTOMETRIC DATA (MEASURED):

	LUMILEDS		
LED	LUXEON CoB 1208		
FWHM	71.0°		
Efficiency	93 %		
Peak intensity	0.7 cd/lm		
LEDs/each optic	1		
Light colour	White		
Required components:			
IDEAL:	50-2100SH + 50-2100AN		
LED	LUXEON CoB 1208		
FWHM	71.0°		
Efficiency	93 %		
Peak intensity	0.6 cd/lm		
LEDs/each optic	1		
Light colour	White		
Required components:			
TE:	2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1		
LED	LUXEON CoB 1211		
FWHM	71.0°		
Efficiency	93 %		
Peak intensity	0.6 cd/lm		
LEDs/each optic	1		
Light colour	White		
Required components:			
IDEAL:	50-2204-CT + 50-2100AN		
LED	LUXEON CoB 1211		
FWHM	72.0°		
Efficiency	93 %		
Peak intensity	0.6 cd/lm		
LEDs/each optic	1		
Light colour	White		
Required components:			
C13584_CLAMP-VERO29			
Bender Wirth: 431 Typ L3			

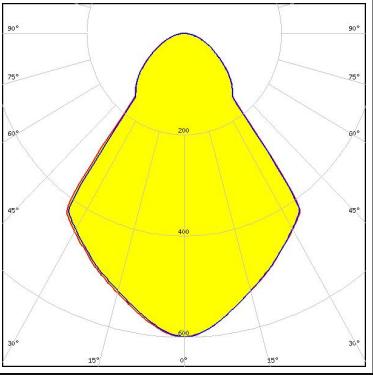
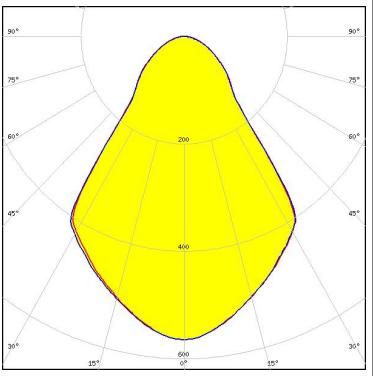
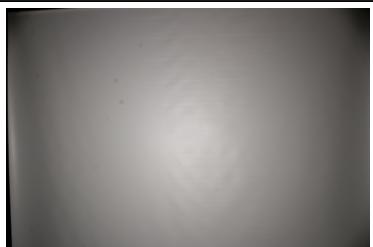
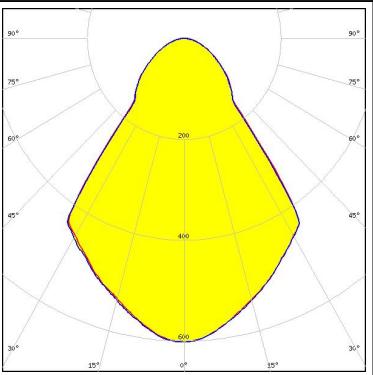
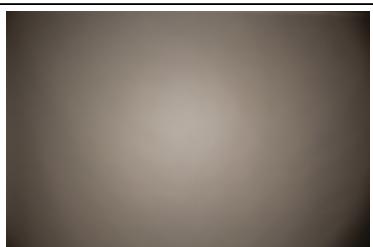
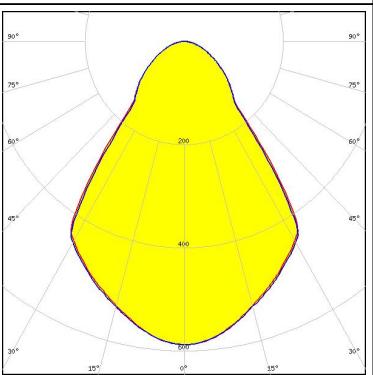
PHOTOMETRIC DATA (MEASURED):

	LUMILEDS		
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required components: IDEAL: 50-2204-CT + 50-2100AN	LUXEON CoB 1216/1812 70.0° 93 % 0.6 cd/Im 1 White IDEAL: 50-2204-CT + 50-2100AN		
	LUMILEDS LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required components: F13671_ANGE-RZ-LENS TE: 2213134-2 + OPTIC CLIP Z50 TYPE1 2213194-1		
	LUMILEDS LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required components: F13671_ANGE-RZ-LENS TE: 2213134-2 + OPTIC CLIP Z50 TYPE1 2213194-1		
	LUMINUS LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required components: C13658_CLAMP-VERO13-18 F13671_ANGE-RZ-LENS Bender Wirth: 491 Typ L2		

PHOTOMETRIC DATA (MEASURED):

	LUMINUS		
LED	CDM-14 (Dim-To-Warm)		
FWHM	71.0°		
Efficiency	92 %		
Peak intensity	0.7 cd/lm		
LEDs/each optic	1		
Light colour	White		
Required components:	C13658_CLAMP-VERO13-18 Bender Wirth: 491 Typ L2		

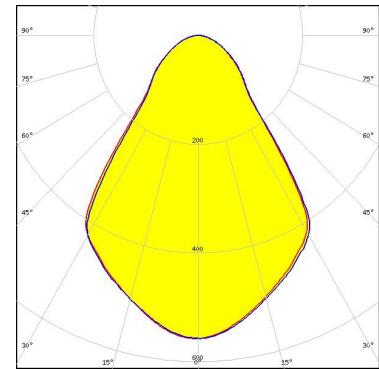
PHOTOMETRIC DATA (MEASURED):

	LUMINUS		
	LUMINUS		
	LUMINUS		
	LUMINUS		

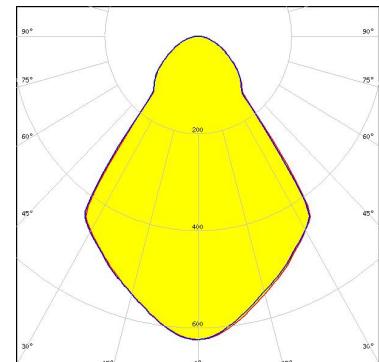
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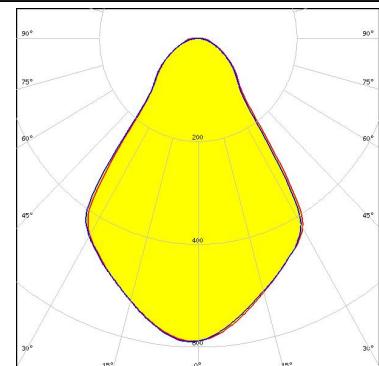
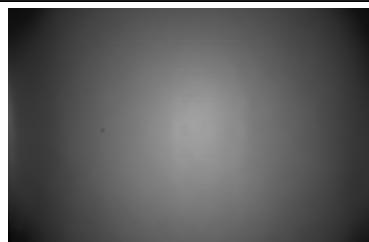
LED CTM-22 (Tunable White)
 FWHM 72.0°
 Efficiency 86 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13584_CLAMP-VERO29
 F13671_ANGE-RZ-LENS
 Bender Wirth: 494 Typ L3



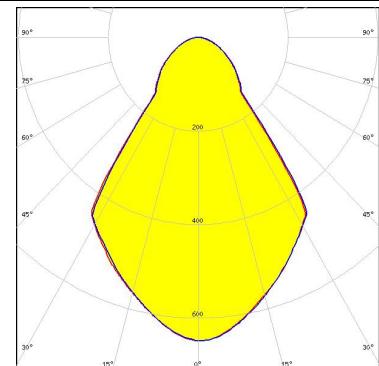
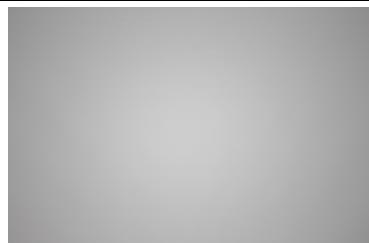
LED CxM-14 (19x19)
 FWHM 72.0°
 Efficiency 93 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



LED COB J-Type
 FWHM 71.0°
 Efficiency 87 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGE-RZ-LENS
 IDEAL: 50-2103NC + 50-2100AN



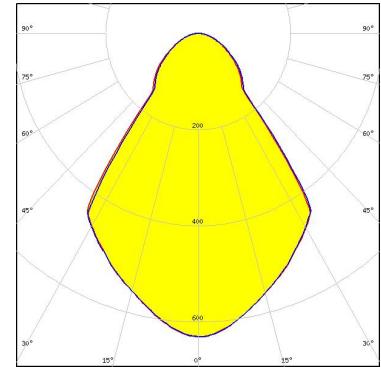
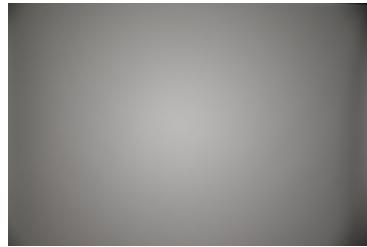
LED COB J-Type
 FWHM 71.0°
 Efficiency 91 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 IDEAL: 50-2103NC + 50-2100AN



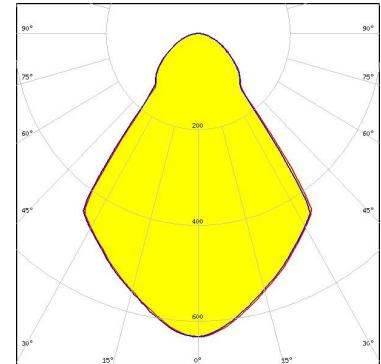
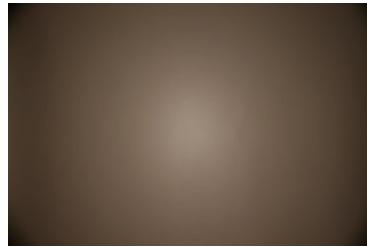
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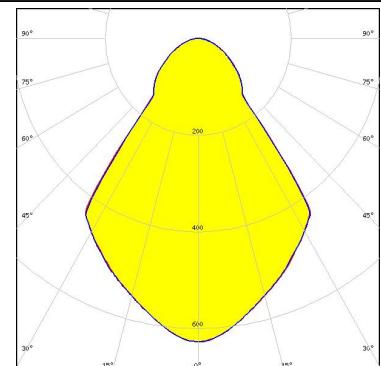
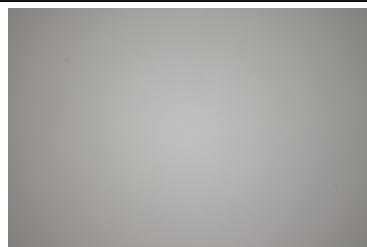
LED COB J-Type
 FWHM 72.0°
 Efficiency 93 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 463 Typ L2



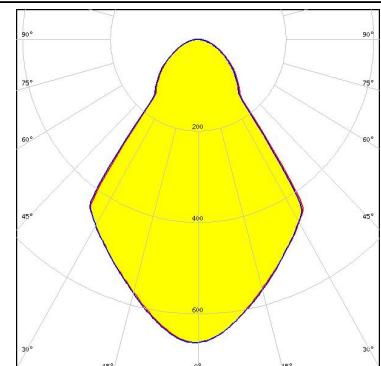
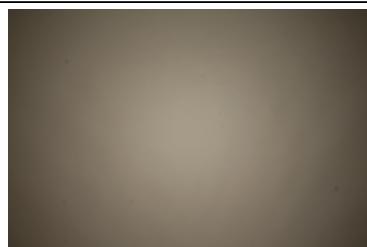
LED COB L-Type (LES 11)
 FWHM 73.0°
 Efficiency 94 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 Molex: 180580-0005



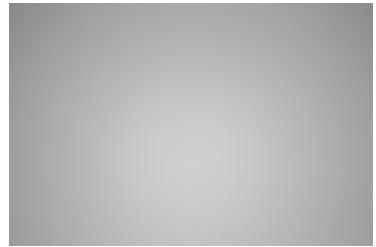
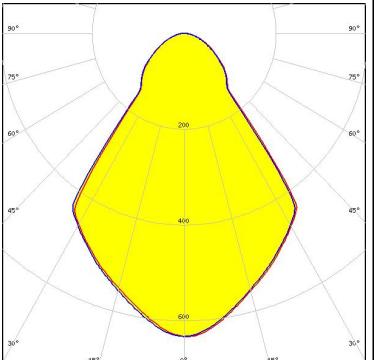
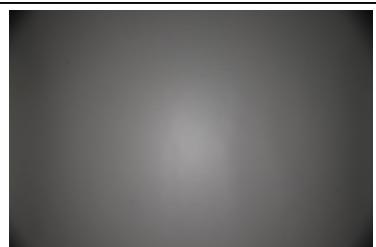
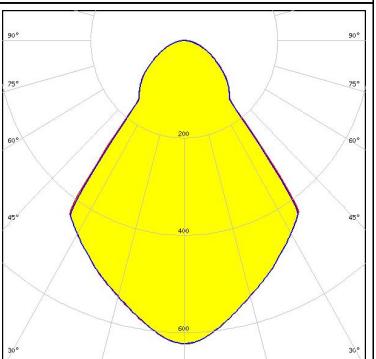
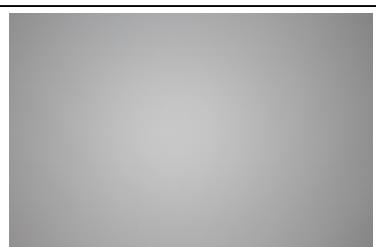
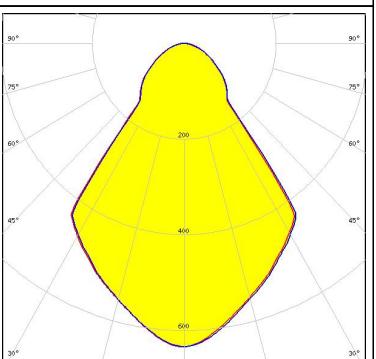
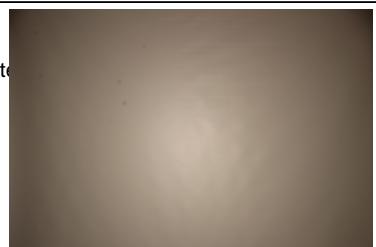
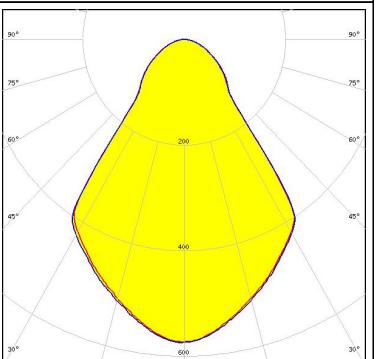
LED COB L-Type (LES 11)
 FWHM 73.0°
 Efficiency 93 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 438 Typ L1



LED COB L-Type (LES 11)
 FWHM 71.0°
 Efficiency 92 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 IDEAL: 50-2100NC + 50-2100AN



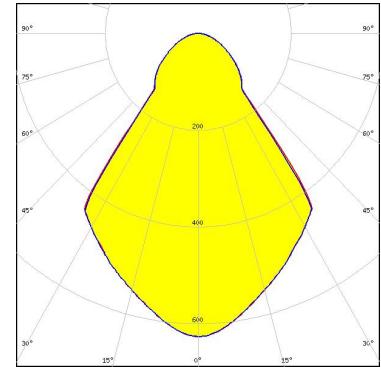
PHOTOMETRIC DATA (MEASURED):

	<p>LED COB L-Type (LES 11) FWHM 72.0° Efficiency 92 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White Required components: TE: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		
	<p>LED COB L-Type (LES 9) FWHM 73.0° Efficiency 94 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White Required components: C13658_CLAMP-VERO13-18 Bender Wirth: 438 Typ L1</p>		
	<p>LED COB L-Type (LES 9) FWHM 72.0° Efficiency 92 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White Required components: TE: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1</p>		
	<p>LED NVCWJ024Z-V1MT: COB J-Type Tunable White FWHM 72.0° Efficiency 85 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White Required components: C13658_CLAMP-VERO13-18 F13671_ANGE-RZ-LENS Bender Wirth: 498 Typ L2</p>		

PHOTOMETRIC DATA (MEASURED):

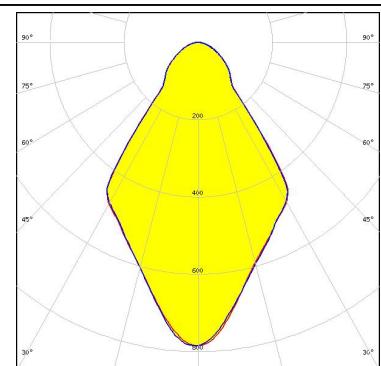
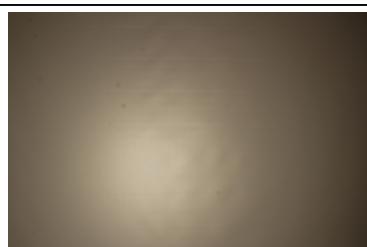


LED	NVCWJ024Z-V1MT: COB J-Type Tunable White
FWHM	73.0°
Efficiency	93 %
Peak intensity	0.6 cd/Im
LEDs/each optic	1
Light colour	White
Required components:	
	C13658_CLAMP-VERO13-18
	Bender Wirth: 498 Typ L2



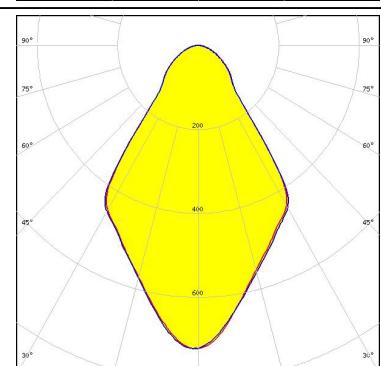
OSRAM

LED	PrevalLED Core G7 L15 H1
FWHM	69.0°
Efficiency	94 %
Peak intensity	0.8 cd/Im
LEDs/each optic	1
Light colour	White
Required components:	
	C16685_CLAMP-PRV-A



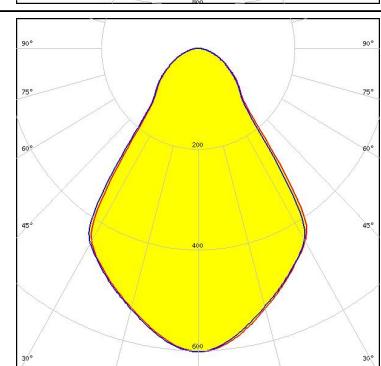
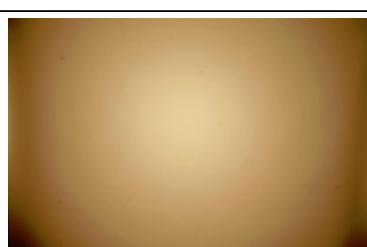
OSRAM

LED	PrevalLED Core G7 L15 H1
FWHM	69.0°
Efficiency	90 %
Peak intensity	0.7 cd/Im
LEDs/each optic	1
Light colour	White
Required components:	
	C16685_CLAMP-PRV-A
	F13671_ANGE-RZ-LENS



OSRAM

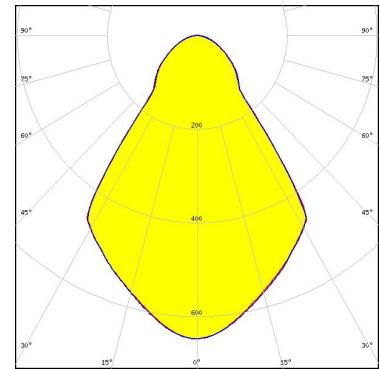
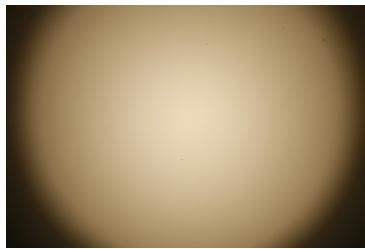
LED	PrevalLED Core Z4 LES19
FWHM	71.0°
Efficiency	88 %
Peak intensity	0.6 cd/Im
LEDs/each optic	1
Light colour	White
Required components:	
	F13671_ANGE-RZ-LENS
	TE: OPTIC CLIP Z50 TYPE1 2213194-1



PHOTOMETRIC DATA (MEASURED):

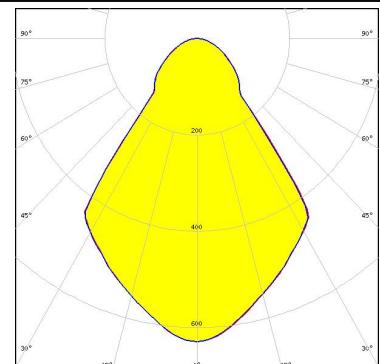
OSRAM

LED PrevalLED Core Z4 LES19
FWHM 71.0°
Efficiency 93 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1



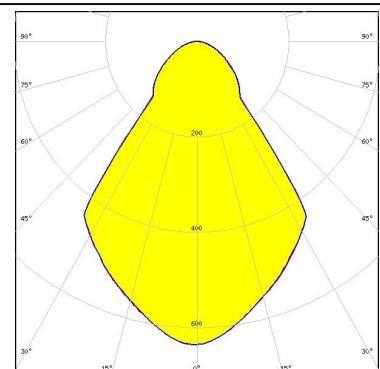
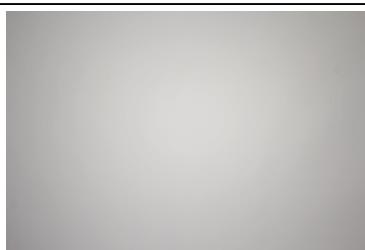
OSRAM

Opto Semiconductors
LED Soleriq S13
FWHM 72.0°
Efficiency 93 %
Peak intensity 0.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1



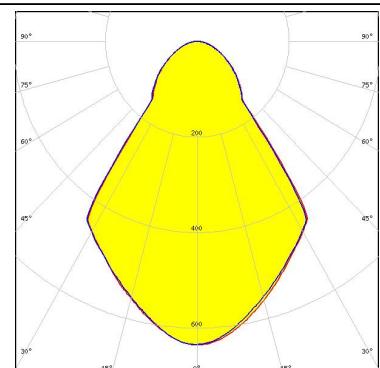
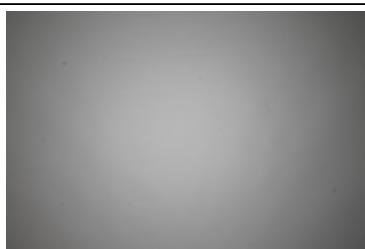
OSRAM

Opto Semiconductors
LED Soleriq S13
FWHM 72.0°
Efficiency 93 %
Peak intensity 0.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 437 Typ L1



OSRAM

Opto Semiconductors
LED Soleriq S13 19x19
FWHM 71.0°
Efficiency 92 %
Peak intensity 0.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2103CT + 50-2100AN



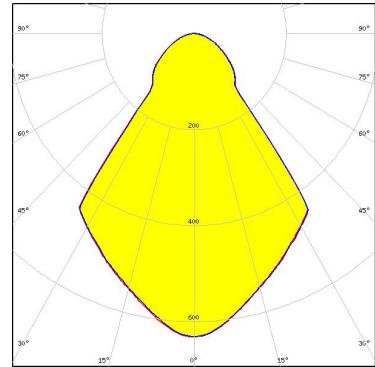
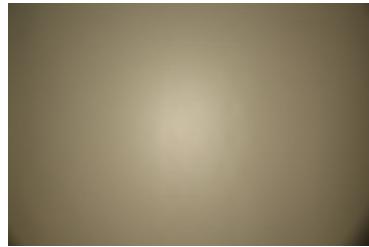
PHOTOMETRIC DATA (MEASURED):

OSRAM <small>Opto Semiconductors</small>	LED Soleriq S13 19x19 FWHM 72.0° Efficiency 92 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White Required components: TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1		
OSRAM <small>Opto Semiconductors</small>	LED Soleriq S19 FWHM 71.0° Efficiency 92 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White Required components: C13584_CLAMP-VERO29 Bender Wirth: 462 Typ L3		
OSRAM <small>Opto Semiconductors</small>	LED Soleriq S19 FWHM 72.0° Efficiency 92 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White Required components: TE: 2213407-2 + OPTIC CLIP Z50 TYPE1 2213194-1		
PHILIPS	LED Fortimo SLM 1208 L15 G6 Standard FWHM 72.0° Efficiency 87 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White Required components: F13671_ANGE-RZ-LENS TE: OPTIC CLIP Z50 TYPE1 2213194-1		

PHOTOMETRIC DATA (MEASURED):

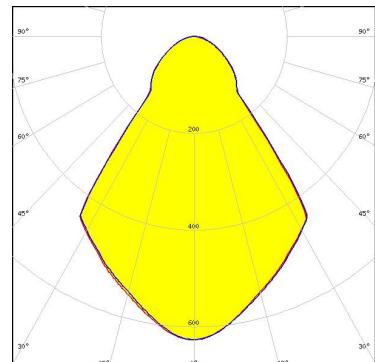
PHILIPS

LED Fortimo SLM L09 + SLM holder
 FWHM 72.0°
 Efficiency 92 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



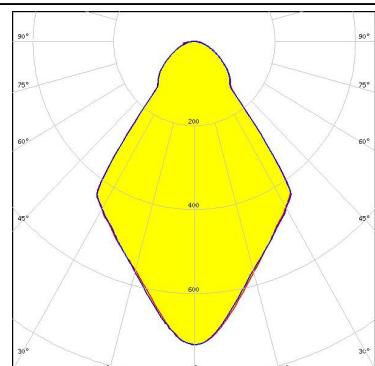
PHILIPS

LED Fortimo SLM L13 + SLM holder
 FWHM 72.0°
 Efficiency 92 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



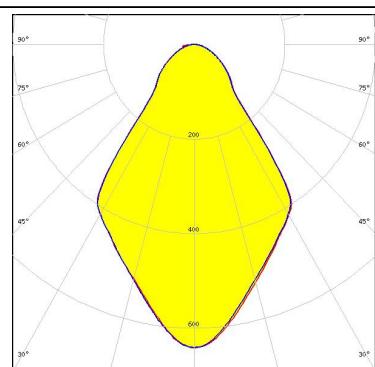
PHILIPS

LED Fortimo SLM L13 CoB
 FWHM 71.0°
 Efficiency 93 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



PHILIPS

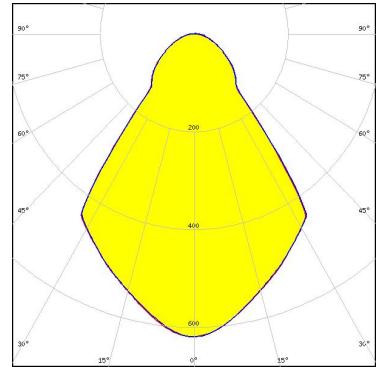
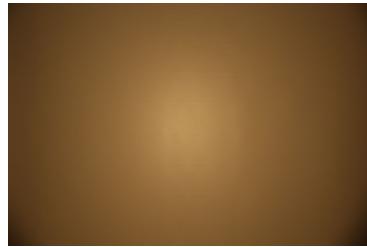
LED Fortimo SLM L13 CoB
 FWHM 71.0°
 Efficiency 85 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGE-RZ-LENS
 TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



PHOTOMETRIC DATA (MEASURED):

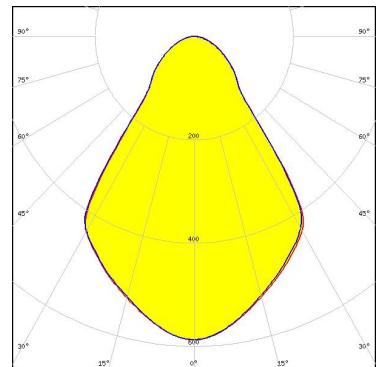
PHILIPS

LED Fortimo SLM L15 + SLM holder
 FWHM 72.0°
 Efficiency 90 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



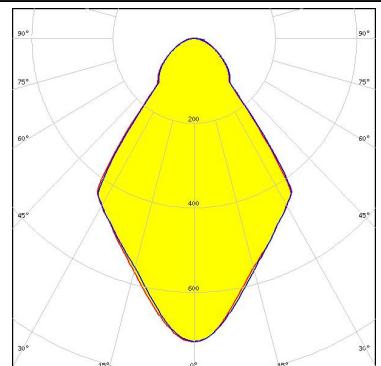
PHILIPS

LED Fortimo SLM L15 + SLM holder
 FWHM 72.0°
 Efficiency 87 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGE-RZ-LENS
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



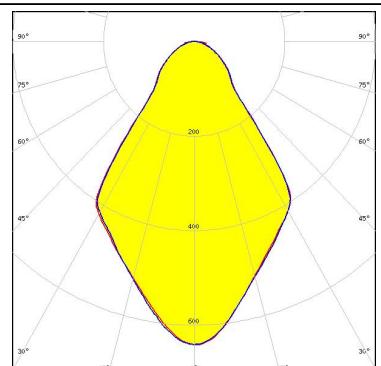
PHILIPS

LED Fortimo SLM L15 CoB
 FWHM 71.0°
 Efficiency 92 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



PHILIPS

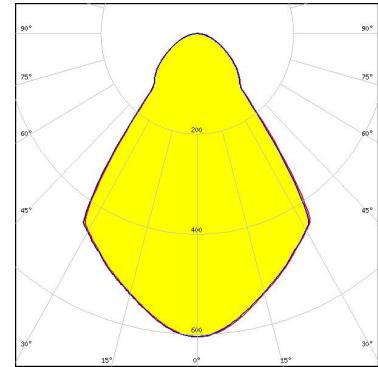
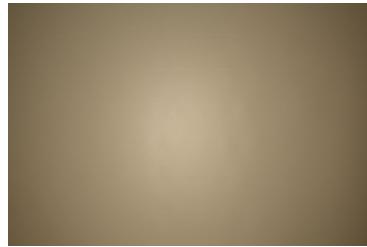
LED Fortimo SLM L15 CoB
 FWHM 70.0°
 Efficiency 85 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGE-RZ-LENS
 TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



PHOTOMETRIC DATA (MEASURED):

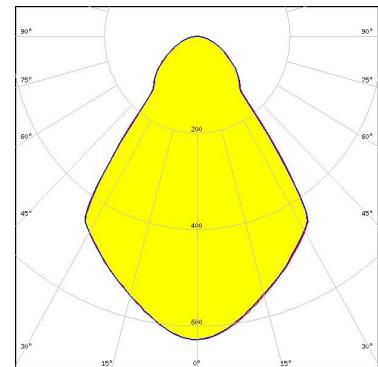
PHILIPS

LED Fortimo SLM L19 + SLM holder
 FWHM 72.0°
 Efficiency 89 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



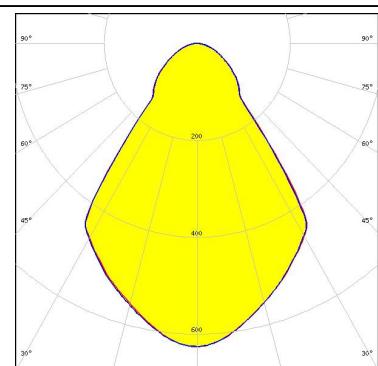
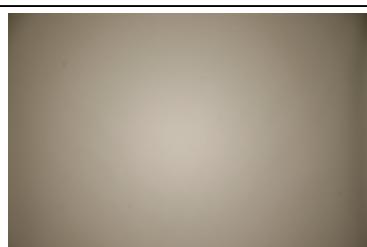
SAMSUNG

LED LC026B / 033B / 040B
 FWHM 72.0°
 Efficiency 93 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



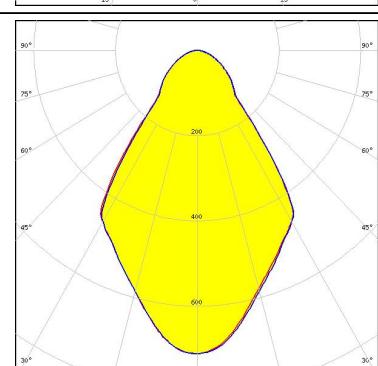
SAMSUNG

LED LC026B / 033B / 040B
 FWHM 72.0°
 Efficiency 92 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 450 Typ L2



SAMSUNG

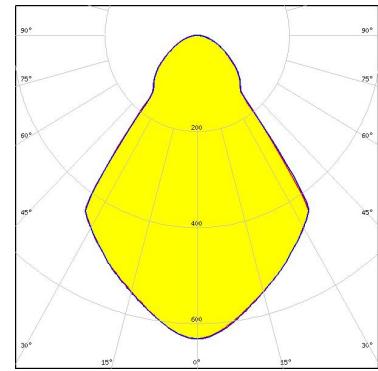
LED LC035T (Tunable white)
 FWHM 70.0°
 Efficiency 93 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour Tunable White
 Required components:
 C13584_CLAMP-VERO29
 Bender Wirth: 502 Typ L3



PHOTOMETRIC DATA (MEASURED):

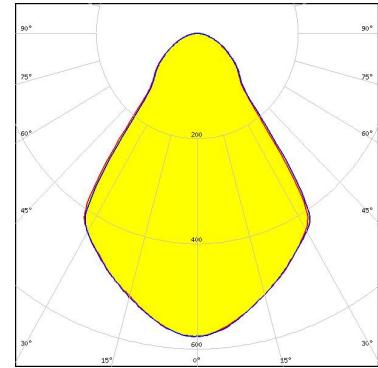
SAMSUNG

LED LC040C
 FWHM 72.0°
 Efficiency 92 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



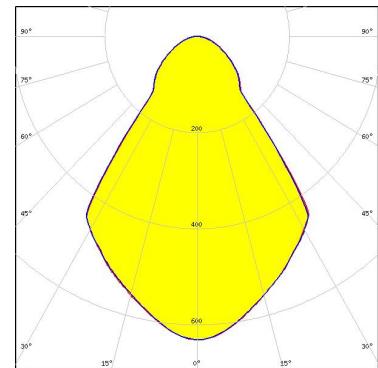
SEOUL SEMICONDUCTOR

LED AC Zhaga COB
 FWHM 72.0°
 Efficiency 87 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F13671_ANGE-RZ-LENS
 Optosource: SEHSMJD-A



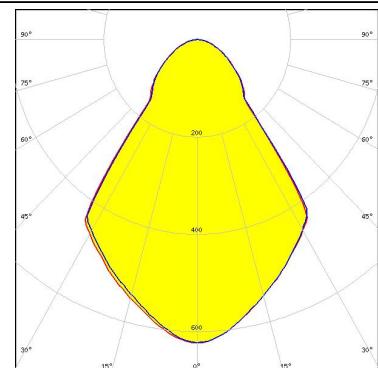
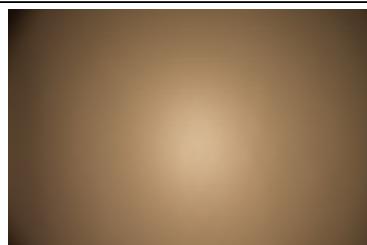
SEOUL SEMICONDUCTOR

LED MJT COB LES 14.5
 FWHM 72.0°
 Efficiency 92 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1

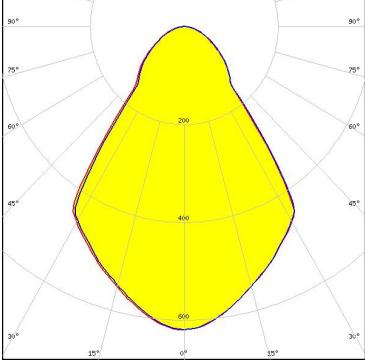
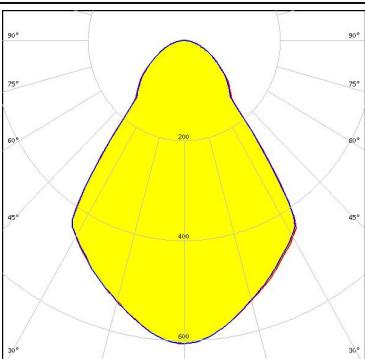
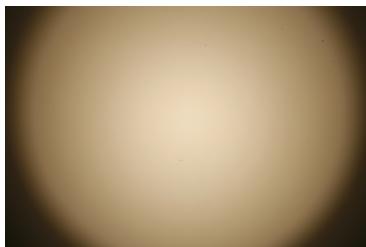
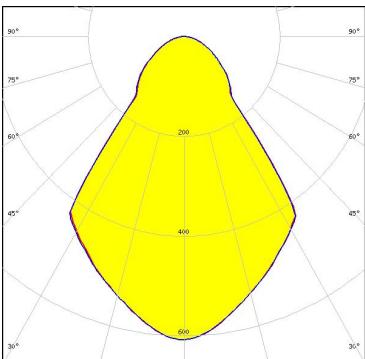
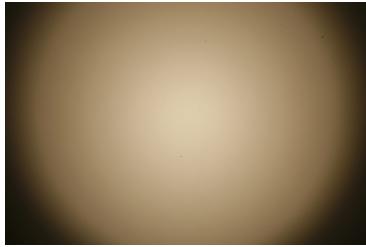
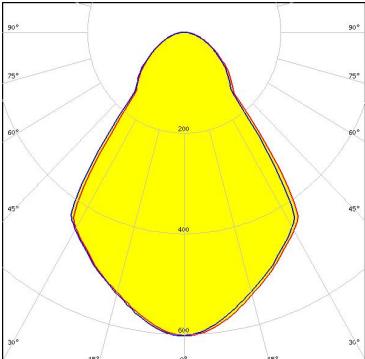


VS LIGHTING SOLUTIONS

LED WU-M-461
 FWHM 72.0°
 Efficiency 92 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 TE: OPTIC CLIP Z50 TYPE1 2213194-1



PHOTOMETRIC DATA (MEASURED):

	LIGHTING SOLUTIONS		
	LIGHTING SOLUTIONS		
	LIGHTING SOLUTIONS		
	LIGHTING SOLUTIONS		

PHOTOMETRIC DATA (MEASURED):



LED WU-M-486

FWHM 73.0°

Efficiency 92 %

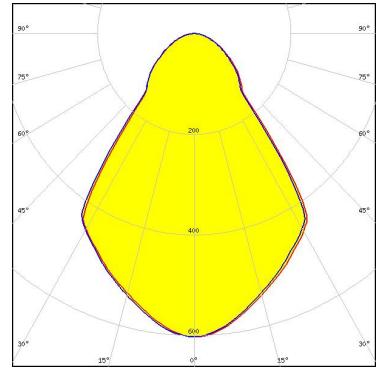
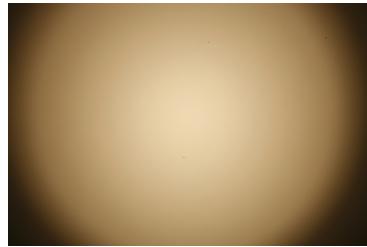
Peak intensity 0.6 cd/lm

LEDs/each optic 1

Light colour White

Required components:

TE: OPTIC CLIP Z50 TYPE1 2213194-1



PHOTOMETRIC DATA (SIMULATED):



LED V10 Gen7

FWHM 72.0°

Efficiency 86 %

Peak intensity 0.6 cd/lm

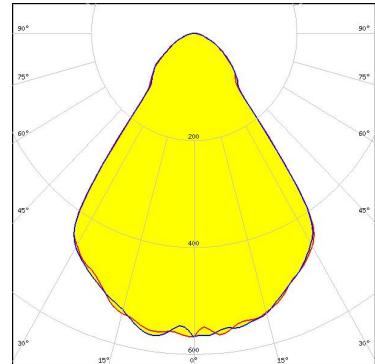
LEDs/each optic 1

Light colour White

Required components:

C13658_CLAMP-VERO13-18

Bender Wirth: 486 Typ L1



LED V13 Gen7

FWHM 69.0°

Efficiency 86 %

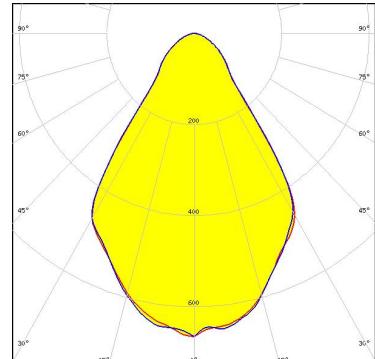
Peak intensity 0.7 cd/lm

LEDs/each optic 1

Light colour White

Required components:

IDEAL: 50-2103CT + 50-2100AN



LED V22 Gen7

FWHM 66.0°

Efficiency 80 %

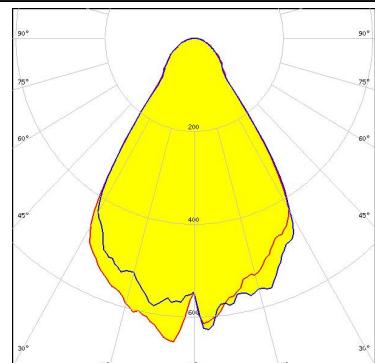
Peak intensity 0.7 cd/lm

LEDs/each optic 1

Light colour White

Required components:

IDEAL: 50-2204-CT + 50-2100AN



LED CXA/B 1830

FWHM 73.0°

Efficiency 88 %

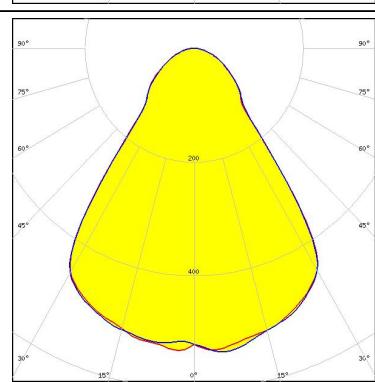
Peak intensity 0.5 cd/lm

LEDs/each optic 1

Light colour White

Required components:

TE: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1



PHOTOMETRIC DATA (SIMULATED):

LUMINUS

LED CxM-14 (19x19)

FWHM 72.0°

Efficiency 93 %

Peak intensity 0.6 cd/lm

LEDs/each optic 1

Light colour White

Required components:

C13658_CLAMP-VERO13-18

Bender Wirth: 433 Typ L1

LUMINUS

LED CxM-9 (13.5x13.5)

FWHM 72.0°

Efficiency 93 %

Peak intensity 0.6 cd/lm

LEDs/each optic 1

Light colour White

Required components:

C13658_CLAMP-VERO13-18

Bender Wirth: 434 Typ L1

SEOUL SEMICONDUCTOR

LED ZC12/18

FWHM 72.0°

Efficiency 93 %

Peak intensity 0.6 cd/lm

LEDs/each optic 1

Light colour White

Required components:

C13658_CLAMP-VERO13-18

Bender Wirth: 433 Typ L1

SEOUL SEMICONDUCTOR

LED ZC4/6

FWHM 72.0°

Efficiency 93 %

Peak intensity 0.6 cd/lm

LEDs/each optic 1

Light colour White

Required components:

C13658_CLAMP-VERO13-18

Bender Wirth: 434 Typ L1

GENERAL INFORMATION:

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

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

MATERIALS:

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

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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