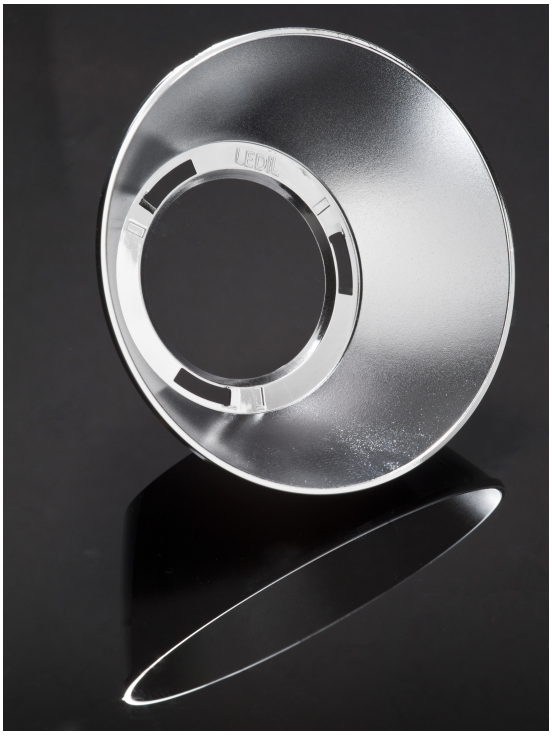
ANGELINA-S

~20° spot beam



TECHNICAL SPECIFICATIONS:

Dimensions	Ø 82.0 mm
Height	31 mm
Fastening	socket
Colour	metal
Box size	480 x 280 x 300 mm
Box weight	12.7 kg
Quantity in Box	900 pcs
ROHS compliant	yes

MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Coating
ANGELINA-S	Reflector	PC	metal	HMDS

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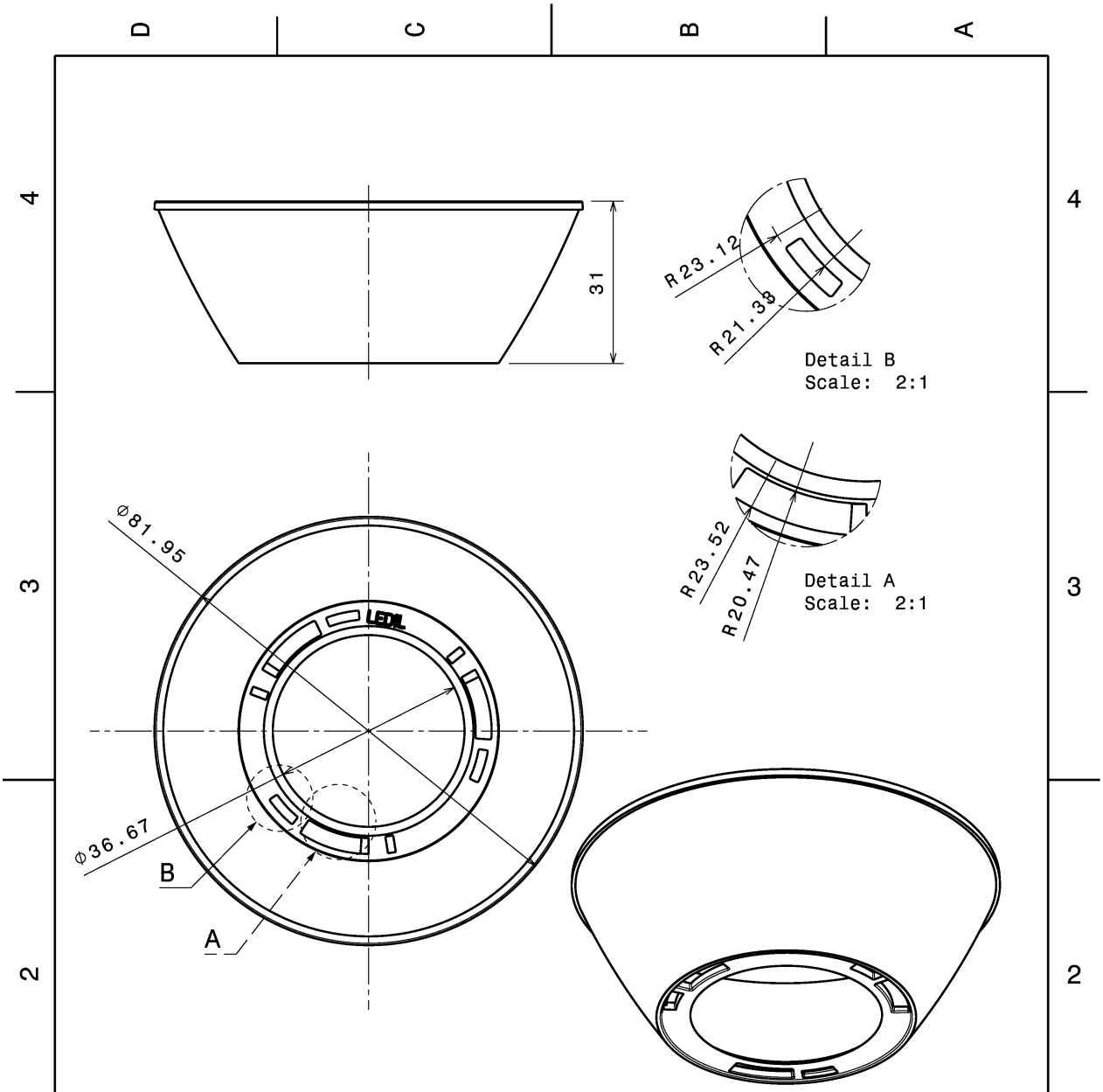

INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1		ANGELINA	PC	metal

Tolerances if not otherwise shown
According to DIN ISO 2768-1
Linear measures:
Up to 30mm class M, otherwise class C.
According to DIN ISO 2768-2
Form and position: class L

Ledil Oy
Salorankatu 10
FIN 24240 SALO
Finland

THIRD ANGLE PROJECTION:

DRAWING TITLE
ANGELINA series Reflector

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SIZE A4

PART NUMBER -

SCALE 1:1 | WEIGHT - | SHEET 1/1

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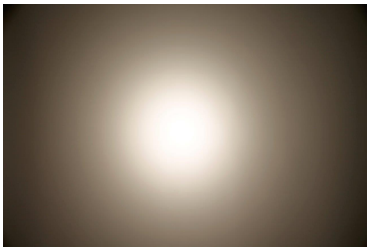
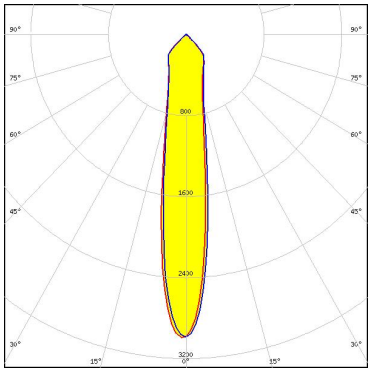
PHOTOMETRIC DATA (MEASURED):

bridgelux

LED	BXRA ES Rectangle
FWHM	17.0°
Efficiency	94 %
Peak intensity	3.000 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
IDEAL: 50-2100BL + 50-2100AN

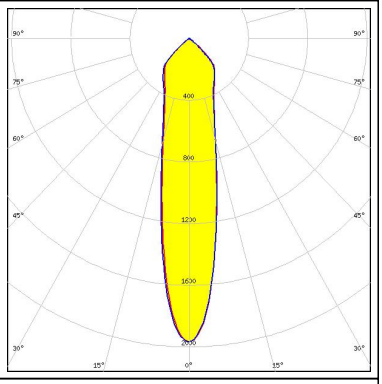




bridgelux

LED	V10 Gen7
FWHM	22.0°
Efficiency	88 %
Peak intensity	2.000 cd/lm
LEDs/each optic	1
Light colour	White

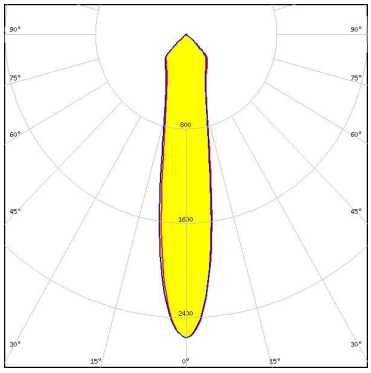
Required components:
C13658_CLAMP-VERO13-18
F13671_ANGE-RZ-LENS
Bender Wirth: 434 Typ L1



bridgelux

LED	V13 Gen7
FWHM	20.0°
Efficiency	94 %
Peak intensity	2.600 cd/lm
LEDs/each optic	1
Light colour	White

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



bridgelux

LED	V15 Gen6
FWHM	23.0°
Efficiency	88 %
Peak intensity	2.400 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 456 Typ L2

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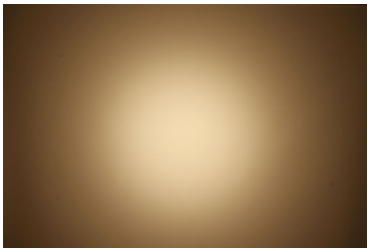
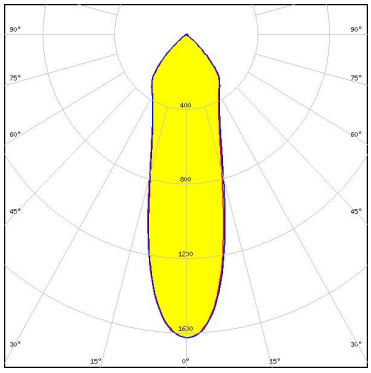
PHOTOMETRIC DATA (MEASURED):

bridgelux

LED	V22 Gen6
FWHM	29.0°
Efficiency	92 %
Peak intensity	1.600 cd/lm
LEDs/each optic	1
Light colour	White

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

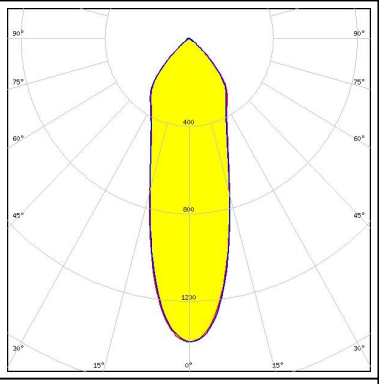




bridgelux

LED	V22 Gen6
FWHM	32.0°
Efficiency	88 %
Peak intensity	1.400 cd/lm
LEDs/each optic	1
Light colour	White

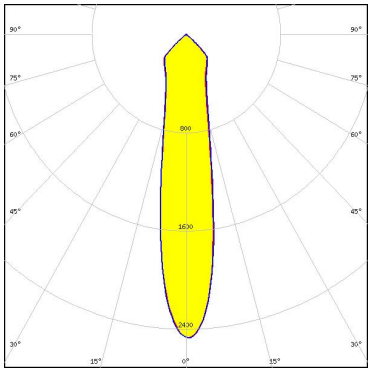
Required components:
F13671_ANGE-RZ-LENS
IDEAL: 50-2204-CT + 50-2100AN



bridgelux

LED	Vero SE 13
FWHM	20.0°
Efficiency	94 %
Peak intensity	2.500 cd/lm
LEDs/each optic	1
Light colour	White

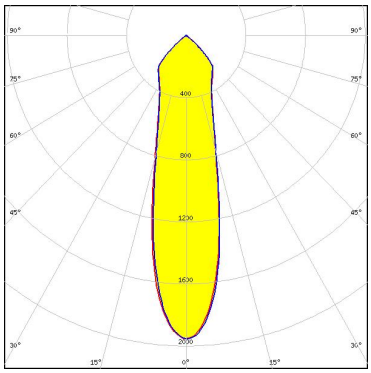
Required components:
C16402_CLAMP-VEROSE-13-18



bridgelux

LED	Vero SE 18
FWHM	26.0°
Efficiency	94 %
Peak intensity	2.000 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C16402_CLAMP-VEROSE-13-18



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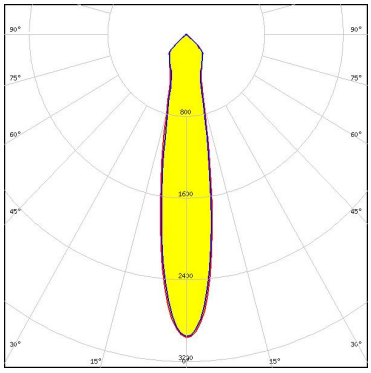
PHOTOMETRIC DATA (MEASURED):

bridgelux

LED	VERO13
FWHM	20.0°
Efficiency	93 %
Peak intensity	3.000 cd/lm
LEDs/each optic	1
Light colour	White

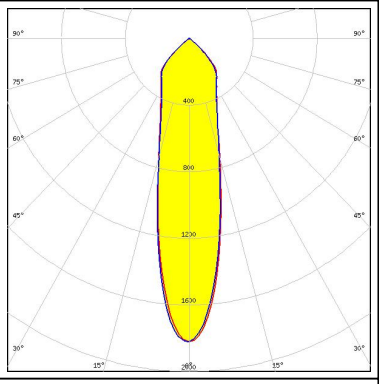
Required components:
C13658_CLAMP-VERO13-18



bridgelux

LED	VERO13
FWHM	25.0°
Efficiency	88 %
Peak intensity	1.820 cd/lm
LEDs/each optic	1
Light colour	White

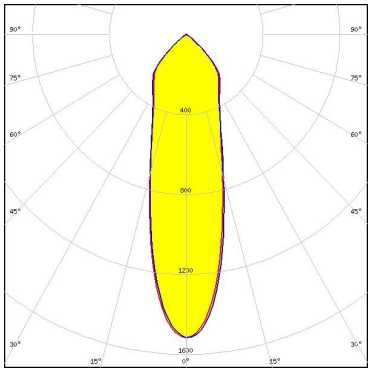
Required components:
C13658_CLAMP-VERO13-18
F13671_ANGE-RZ-LENS



bridgelux

LED	VERO18
FWHM	29.0°
Efficiency	89 %
Peak intensity	1.520 cd/lm
LEDs/each optic	1
Light colour	White

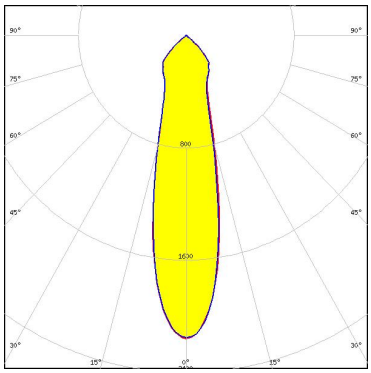
Required components:
C13658_CLAMP-VERO13-18
F13671_ANGE-RZ-LENS



bridgelux

LED	VERO18
FWHM	25.0°
Efficiency	92 %
Peak intensity	2.200 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13658_CLAMP-VERO13-18



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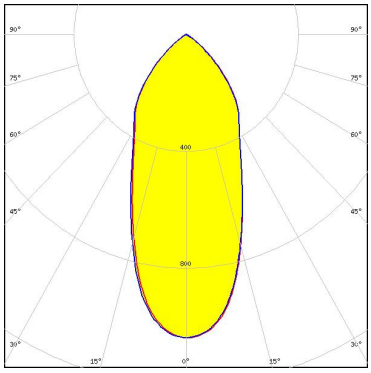
PHOTOMETRIC DATA (MEASURED):

bridgelux

LED	VERO29
FWHM	44.0°
Efficiency	89 %
Peak intensity	1.040 cd/lm
LEDs/each optic	1
Light colour	White

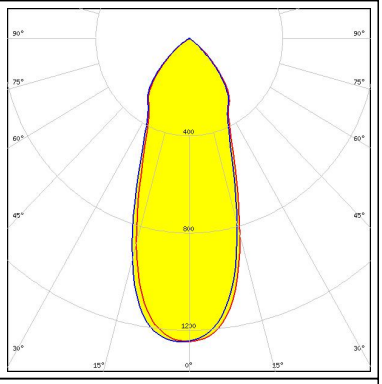
Required components:
- C13584_CLAMP-VERO29
- F13671_ANGE-RZ-LENS



bridgelux

LED	VERO29
FWHM	39.0°
Efficiency	90 %
Peak intensity	1.200 cd/lm
LEDs/each optic	1
Light colour	White

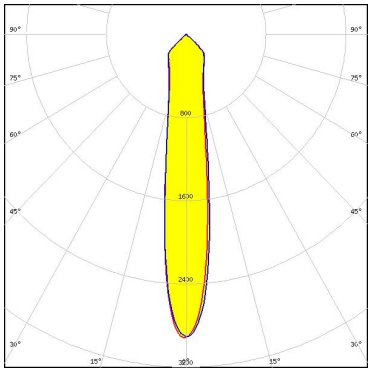
Required components:
- C13584_CLAMP-VERO29



CITIZEN

LED	CLL02x/CLU02x (LES10)
FWHM	17.0°
Efficiency	93 %
Peak intensity	2.900 cd/lm
LEDs/each optic	1
Light colour	White

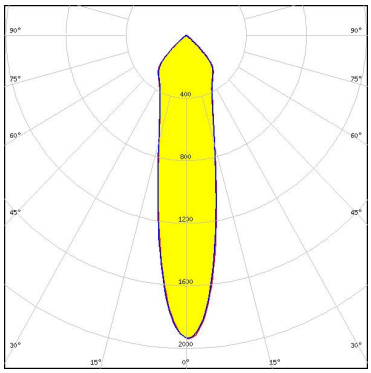
Required components:
- C13658_CLAMP-VERO13-18
- Bender Wirth: 434 Typ L1



CITIZEN

LED	CLL03x/CLU03x
FWHM	23.0°
Efficiency	91 %
Peak intensity	1.900 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C16791_CLAMP-Z45-A
- F13671_ANGE-RZ-LENS
- TE: 2325807-3



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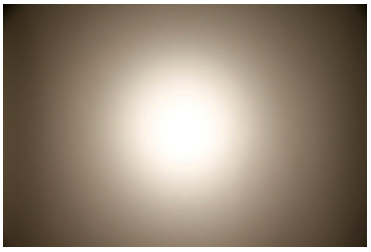
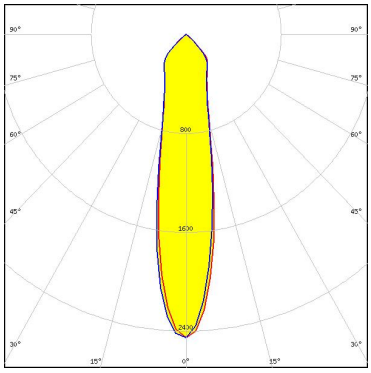
PHOTOMETRIC DATA (MEASURED):

CITIZEN

LED	CLL03x/CLU03x
FWHM	22.0°
Efficiency	94 %
Peak intensity	2.450 cd/lm
LEDs/each optic	1
Light colour	White

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

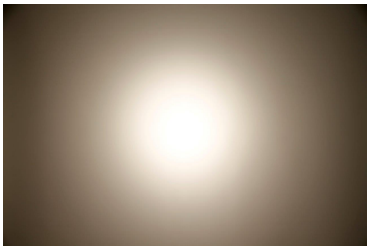


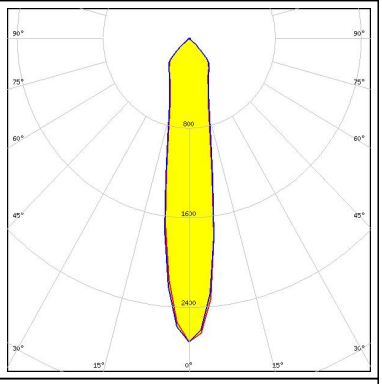


CITIZEN

LED	CLL03x/CLU03x
FWHM	19.0°
Efficiency	94 %
Peak intensity	2.710 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
IDEAL: 50-2103CT + 50-2100AN

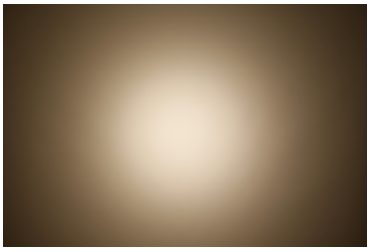


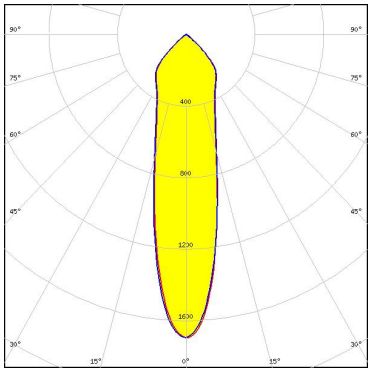


CITIZEN

LED	CLL03x/CLU03x
FWHM	25.0°
Efficiency	87 %
Peak intensity	1.700 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
F13671_ANGE-RZ-LENS
TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1

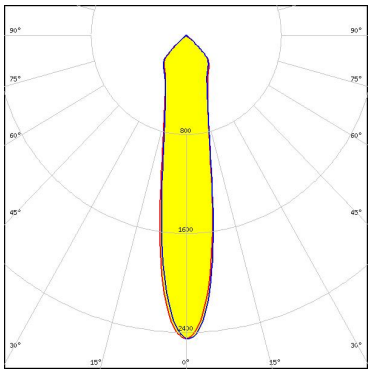




CITIZEN

LED	CLL03x/CLU03x
FWHM	20.0°
Efficiency	94 %
Peak intensity	2.500 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C16791_CLAMP-Z45-A
TE: 2325807-3



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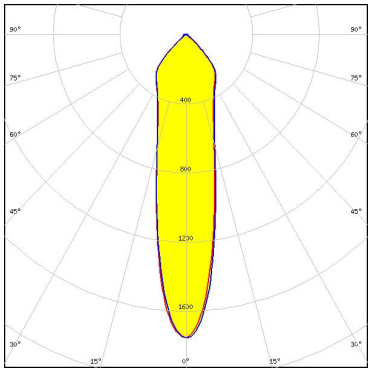
PHOTOMETRIC DATA (MEASURED):

CITIZEN

LED	CLL03x/CLU03x
FWHM	23.0°
Efficiency	87 %
Peak intensity	1.800 cd/lm
LEDs/each optic	1
Light colour	White

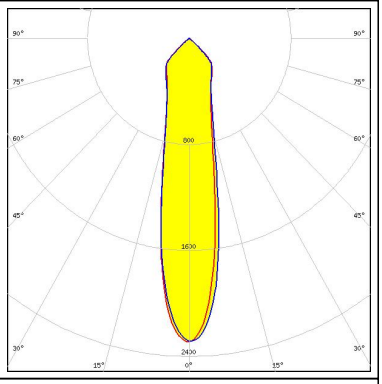
Required components:
F13671_ANGE-RZ-LENS
IDEAL: 50-2103CT + 50-2100AN



CITIZEN

LED	CLL03x/CLU03x
FWHM	21.0°
Efficiency	92 %
Peak intensity	2.300 cd/lm
LEDs/each optic	1
Light colour	White

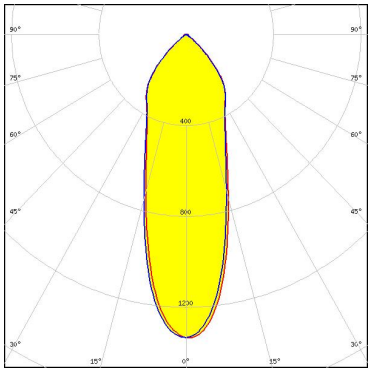
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 433 Typ L1



CITIZEN

LED	CLL04x/CLU04x
FWHM	33.0°
Efficiency	88 %
Peak intensity	1.300 cd/lm
LEDs/each optic	1
Light colour	White

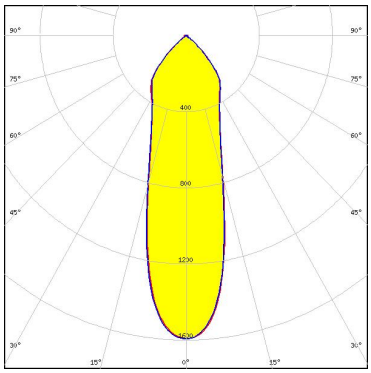
Required components:
F13671_ANGE-RZ-LENS
IDEAL: 50-2204-CT + 50-2100AN



CITIZEN

LED	CLL04x/CLU04x
FWHM	30.0°
Efficiency	92 %
Peak intensity	1.600 cd/lm
LEDs/each optic	1
Light colour	White

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



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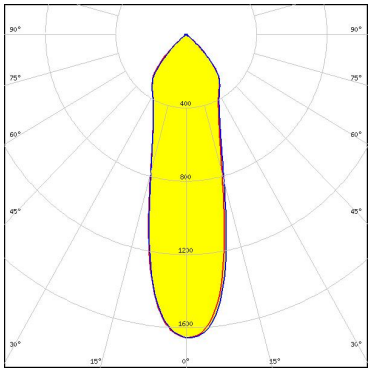
PHOTOMETRIC DATA (MEASURED):

CITIZEN

LED	CLL04x/CLU04x
FWHM	29.0°
Efficiency	93 %
Peak intensity	1.700 cd/lm
LEDs/each optic	1
Light colour	White

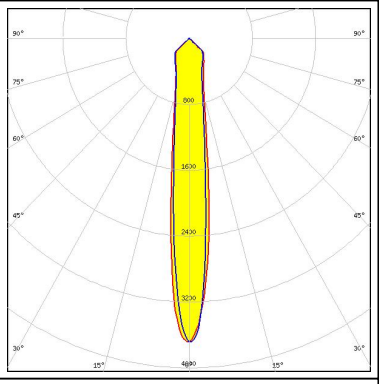
Required components:
C13584_CLAMP-VERO29
Bender Wirth: 431 Typ L3



CITIZEN

LED	CLU700/701
FWHM	14.0°
Efficiency	93 %
Peak intensity	3.700 cd/lm
LEDs/each optic	1
Light colour	White

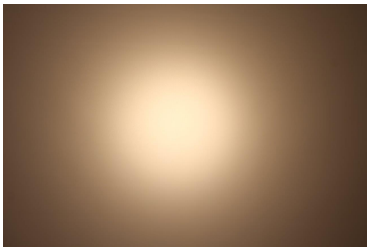
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 434 Typ L1

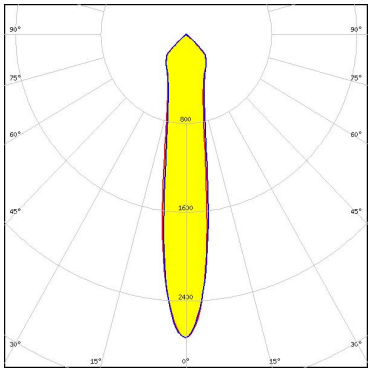


CITIZEN

LED	CLU720/721
FWHM	17.0°
Efficiency	94 %
Peak intensity	2.700 cd/lm
LEDs/each optic	1
Light colour	White

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

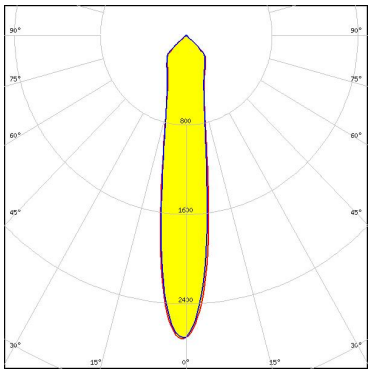




CITIZEN

LED	CLU720/721
FWHM	18.0°
Efficiency	92 %
Peak intensity	2.700 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13658_CLAMP-VERO13-18



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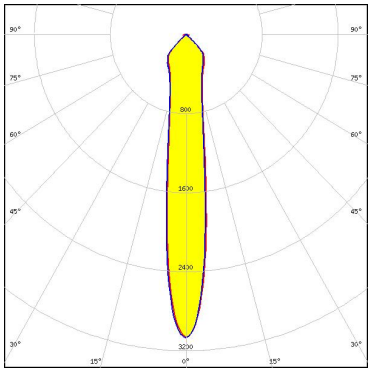
PHOTOMETRIC DATA (MEASURED):

CITIZEN

LED	CLU720/721
FWHM	15.0°
Efficiency	94 %
Peak intensity	3.100 cd/lm
LEDs/each optic	1
Light colour	White

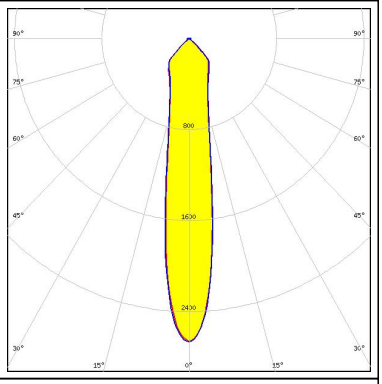
Required components:
IDEAL: 50-2103CT + 50-2100AN



CITIZEN

LED	CLU730/731
FWHM	18.0°
Efficiency	92 %
Peak intensity	2.700 cd/lm
LEDs/each optic	1
Light colour	White

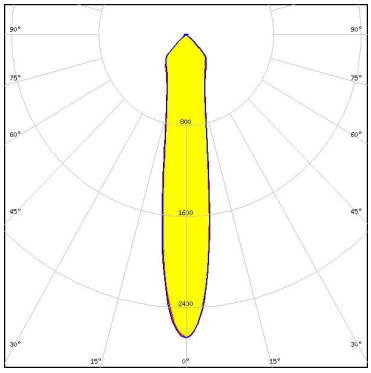
Required components:
IDEAL: 50-2204-CT + 50-2100AN



CITIZEN

LED	CLU730/731
FWHM	18.0°
Efficiency	92 %
Peak intensity	2.700 cd/lm
LEDs/each optic	1
Light colour	White

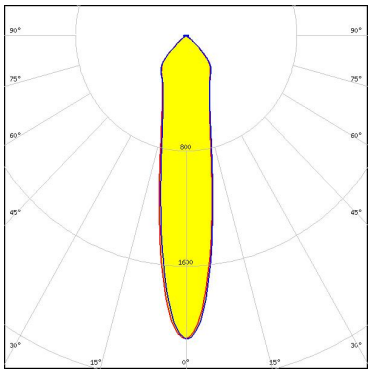
Required components:
IDEAL: 50-2204-CT + 50-2100AN



CITIZEN

LED	CLU730/731
FWHM	21.0°
Efficiency	87 %
Peak intensity	2.100 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
F13671_ANGE-RZ-LENS
IDEAL: 50-2204-CT + 50-2100AN



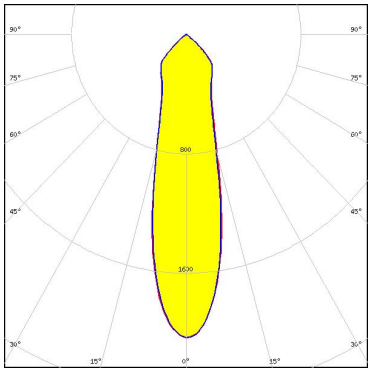
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

PHOTOMETRIC DATA (MEASURED):

CREE

LED	CMA2550
FWHM	26.0°
Efficiency	94 %
Peak intensity	2.000 cd/lm
LEDs/each optic	1
Light colour	White

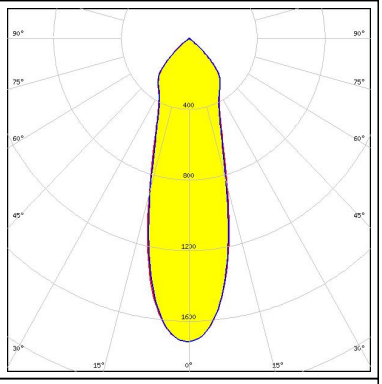
Required components:
C14036_CLAMP_CXA25-30



CREE

LED	CMA3090
FWHM	30.0°
Efficiency	94 %
Peak intensity	1.700 cd/lm
LEDs/each optic	1
Light colour	White

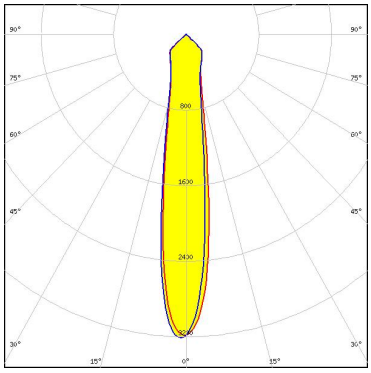
Required components:
C14036_CLAMP_CXA25-30



CREE

LED	CMT14xx
FWHM	17.0°
Efficiency	94 %
Peak intensity	3.200 cd/lm
LEDs/each optic	1
Light colour	White

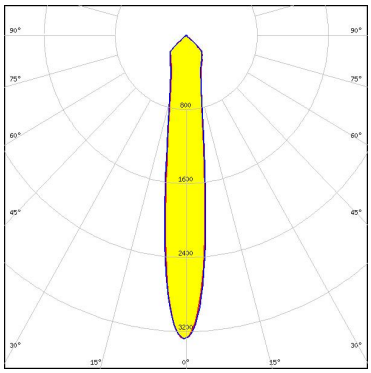
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 434 Typ L1



CREE

LED	CXA/B 15xx
FWHM	15.0°
Efficiency	93 %
Peak intensity	3.300 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 441 Typ L1



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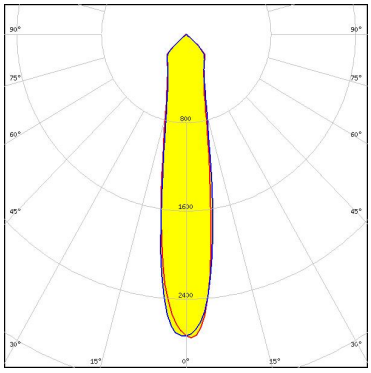
PHOTOMETRIC DATA (MEASURED):

CREE

LED	CXA/B 15xx
FWHM	20.0°
Efficiency	94 %
Peak intensity	2.800 cd/lm
LEDs/each optic	1
Light colour	White

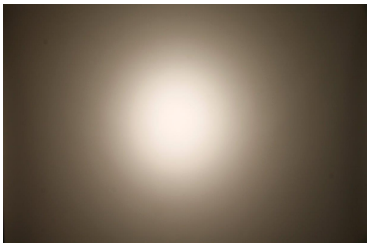
Required components:
C14123_CLAMP-CXA15-18

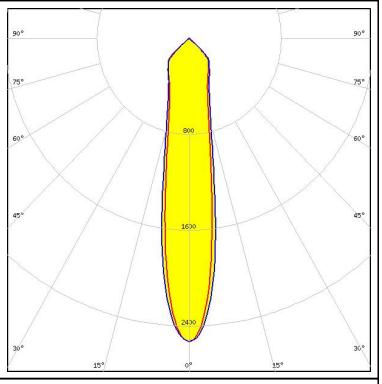


CREE

LED	CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM	19.0°
Efficiency	93 %
Peak intensity	2.500 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 437 Typ L1

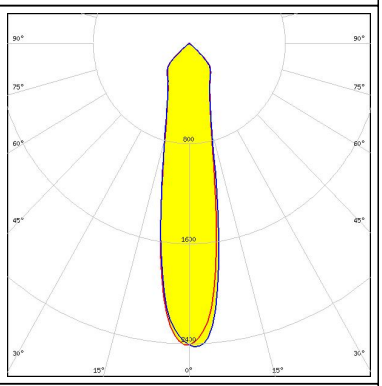




CREE

LED	CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM	22.0°
Efficiency	94 %
Peak intensity	2.400 cd/lm
LEDs/each optic	1
Light colour	White

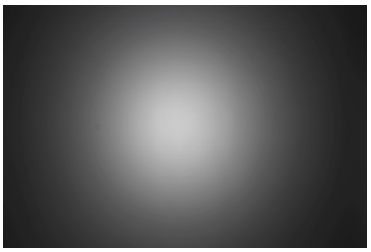
Required components:
C14123_CLAMP-CXA15-18

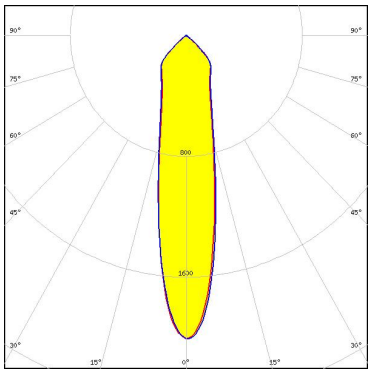


CREE

LED	CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM	22.0°
Efficiency	89 %
Peak intensity	2.000 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
F13671_ANGE-RZ-LENS
TE: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1





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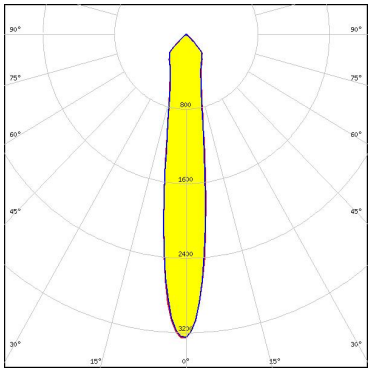
PHOTOMETRIC DATA (MEASURED):

CREE

LED	CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM	16.0°
Efficiency	94 %
Peak intensity	3.290 cd/lm
LEDs/each optic	1
Light colour	White

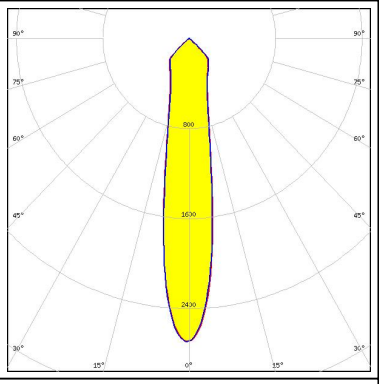
Required components:
IDEAL: 50-2101CR + 50-2100AN



CREE

LED	CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM	19.0°
Efficiency	93 %
Peak intensity	2.700 cd/lm
LEDs/each optic	1
Light colour	White

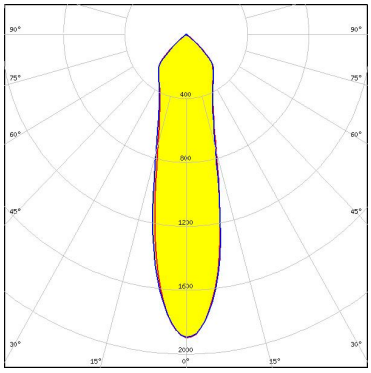
Required components:
TE: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1



CREE

LED	CXA/B 25xx
FWHM	25.0°
Efficiency	93 %
Peak intensity	1.900 cd/lm
LEDs/each optic	1
Light colour	White

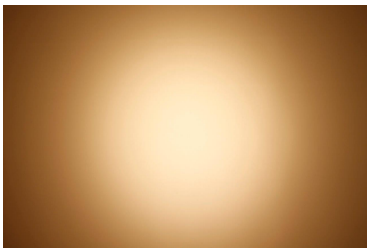
Required components:
C14036_CLAMP_CXA25-30

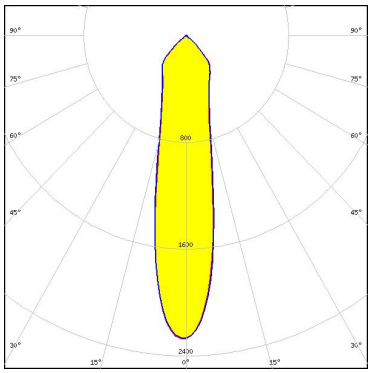


CREE

LED	CXA/B 25xx
FWHM	22.0°
Efficiency	94 %
Peak intensity	2.280 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
IDEAL: 50-2102CR + 50-2100AN





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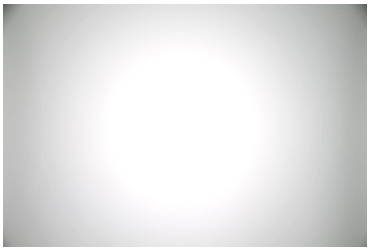
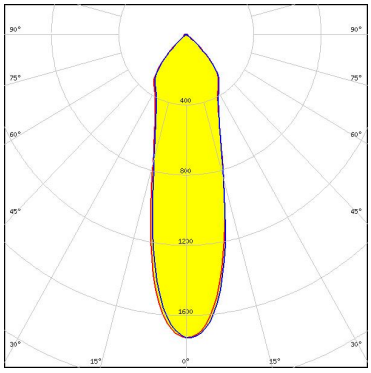
PHOTOMETRIC DATA (MEASURED):

CREE

LED	CXA/B 30xx
FWHM	28.0°
Efficiency	94 %
Peak intensity	1.730 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
IDEAL: 50-2234C + 50-2100AN

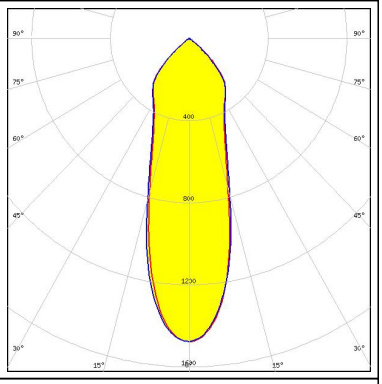




CREE

LED	CXA/B 30xx
FWHM	32.0°
Efficiency	92 %
Peak intensity	1.500 cd/lm
LEDs/each optic	1
Light colour	White

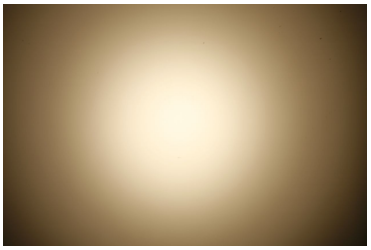
Required components:
C14036_CLAMP_CXA25-30

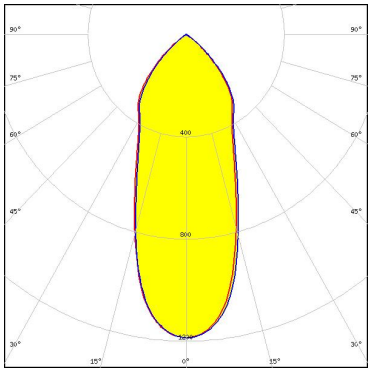


CREE

LED	CXA/B 3590
FWHM	40.0°
Efficiency	93 %
Peak intensity	1.190 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
IDEAL: 50-2303CR + 50-2300AN





EVERLIGHT

LED	CHI3030 19W
FWHM	29.0°
Efficiency	88 %
Peak intensity	1.500 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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PHOTOMETRIC DATA (MEASURED):

EVERLIGHT

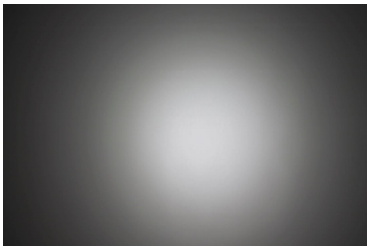
LED	CHI3030 29W
FWHM	39.0°
Efficiency	88 %
Peak intensity	1.300 cd/lm
LEDs/each optic	1
Light colour	White

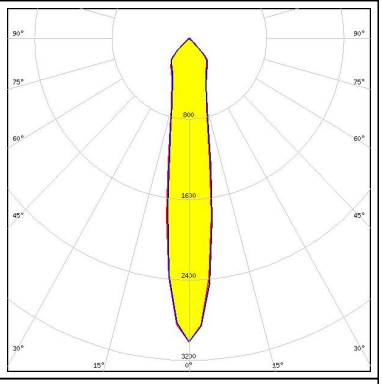
Required components:
- C13584_CLAMP-VERO29
- F13671_ANGE-RZ-LENS
- Bender Wirth: 468 Typ L3

LG Innotek

LED	COB 10W/13W/17W/24W
FWHM	17.0°
Efficiency	94 %
Peak intensity	3.020 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- IDEAL: 50-2100LG + 50-2100AN

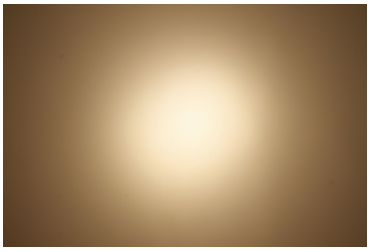


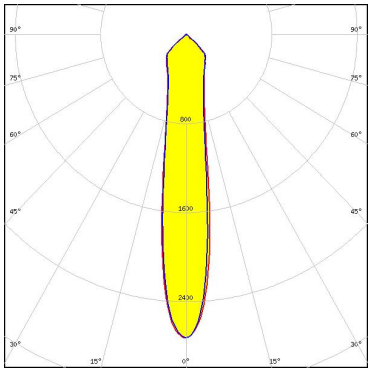


LUMILEDS

LED	LUXEON CoB 1202/1203
FWHM	18.0°
Efficiency	93 %
Peak intensity	2.800 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13658_CLAMP-VERO13-18
- Bender Wirth: 438 Typ L1

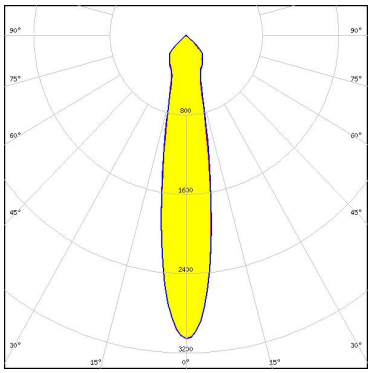




LUMILEDS

LED	LUXEON CoB 1204/1205
FWHM	19.0°
Efficiency	94 %
Peak intensity	3.100 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



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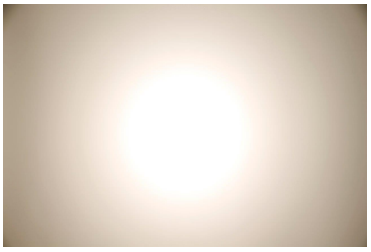
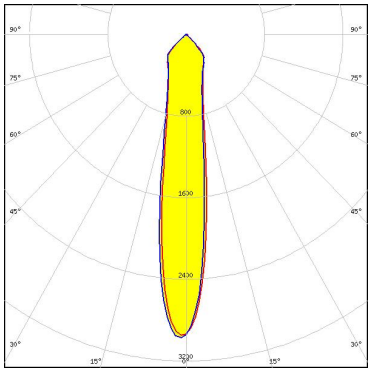
PHOTOMETRIC DATA (MEASURED):

LUMILEDS

LED	LUXEON CoB 1204/1205
FWHM	17.0°
Efficiency	94 %
Peak intensity	2.980 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
IDEAL: 50-2100SH + 50-2100AN

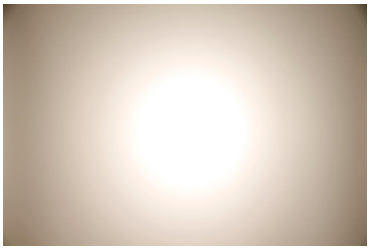


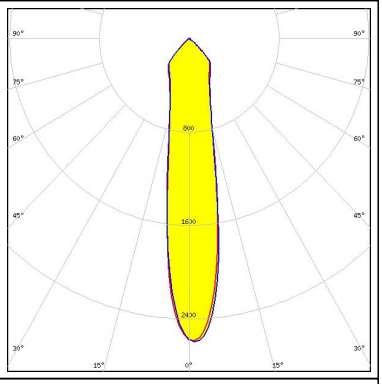


LUMILEDS

LED	LUXEON CoB 1208
FWHM	20.0°
Efficiency	94 %
Peak intensity	2.610 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
IDEAL: 50-2100SH + 50-2100AN

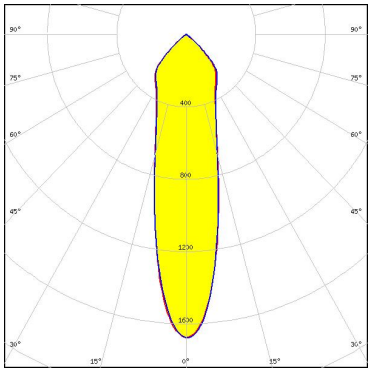




LUMILEDS

LED	LUXEON CoB 1208
FWHM	25.0°
Efficiency	87 %
Peak intensity	1.700 cd/lm
LEDs/each optic	1
Light colour	White

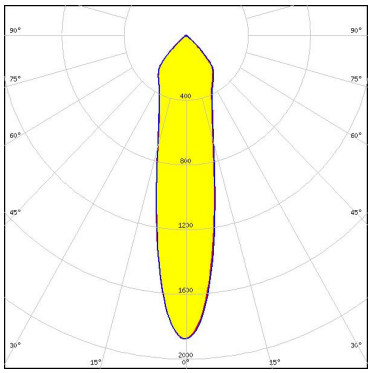
Required components:
F13671_ANGE-RZ-LENS
TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



LUMILEDS

LED	LUXEON CoB 1208
FWHM	23.0°
Efficiency	88 %
Peak intensity	1.900 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
F13671_ANGE-RZ-LENS
IDEAL: 50-2100SH + 50-2100AN



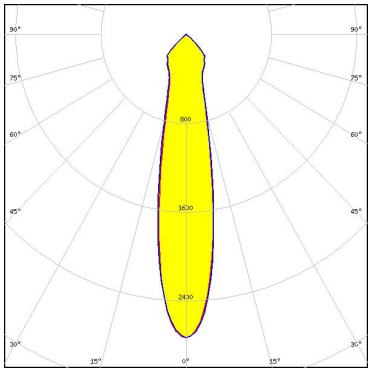
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

PHOTOMETRIC DATA (MEASURED):

LUMILEDS

LED	LUXEON CoB 1208
FWHM	21.0°
Efficiency	93 %
Peak intensity	2.700 cd/lm
LEDs/each optic	1
Light colour	White

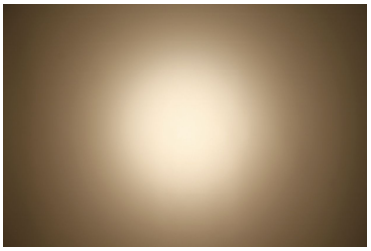
Required components:
TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1

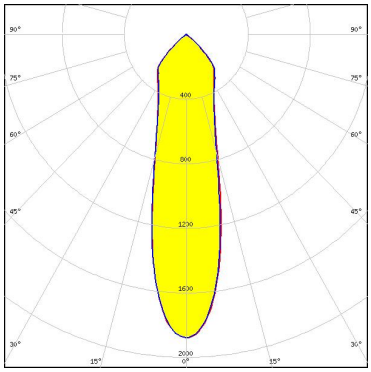


LUMILEDS

LED	LUXEON CoB 1211
FWHM	26.0°
Efficiency	94 %
Peak intensity	1.900 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13584_CLAMP-VERO29
Bender Wirth: 431 Typ L3

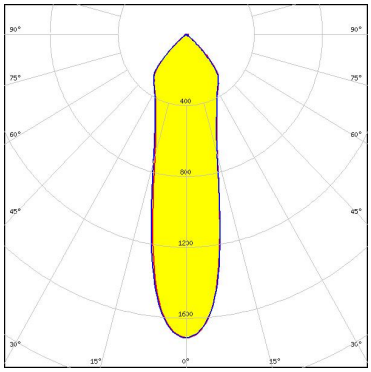




LUMILEDS

LED	LUXEON CoB 1211
FWHM	26.0°
Efficiency	91 %
Peak intensity	1.700 cd/lm
LEDs/each optic	1
Light colour	White

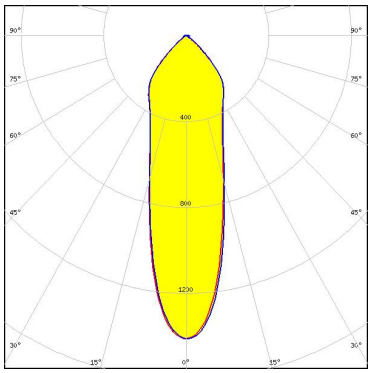
Required components:
IDEAL: 50-2204-CT + 50-2100AN



LUMILEDS

LED	LUXEON CoB 1211
FWHM	30.0°
Efficiency	87 %
Peak intensity	1.400 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
F13671_ANGE-RZ-LENS
IDEAL: 50-2204-CT + 50-2100AN



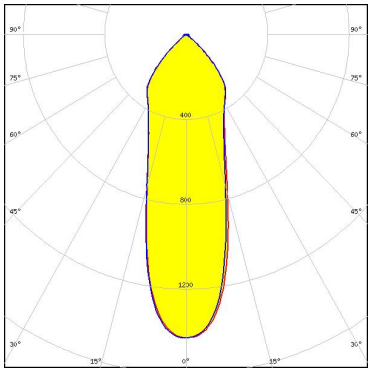
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

PHOTOMETRIC DATA (MEASURED):

LUMILEDS

LED	LUXEON CoB 1216/1812
FWHM	31.0°
Efficiency	91 %
Peak intensity	1.400 cd/lm
LEDs/each optic	1
Light colour	White

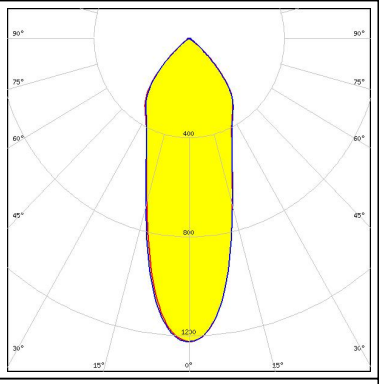
Required components:
IDEAL: 50-2204-CT + 50-2100AN



LUMILEDS

LED	LUXEON CoB 1216/1812
FWHM	34.0°
Efficiency	87 %
Peak intensity	1.200 cd/lm
LEDs/each optic	1
Light colour	White

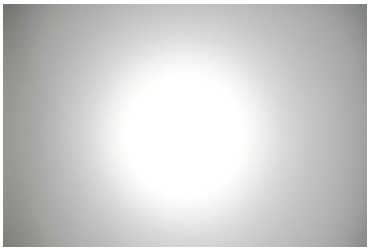
Required components:
F13671_ANGE-RZ-LENS
IDEAL: 50-2204CT + 50-2100LN

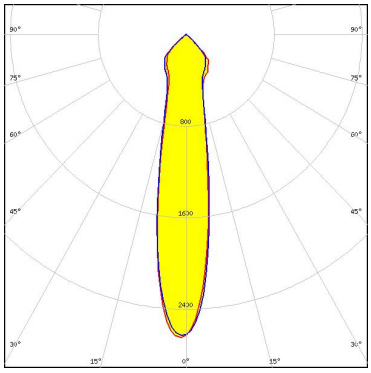


LUMILEDS

LED	LUXEON K12
FWHM	20.0°
Efficiency	94 %
Peak intensity	2.660 cd/lm
LEDs/each optic	1
Light colour	White

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

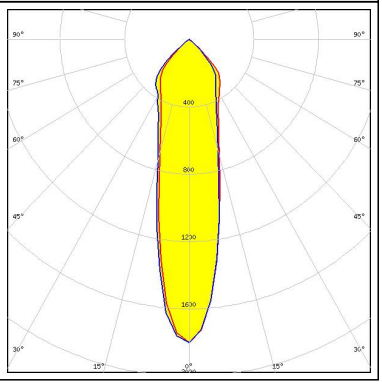




LUMILEDS

LED	LUXEON K12
FWHM	25.0°
Efficiency	89 %
Peak intensity	1.800 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
F13671_ANGE-RZ-LENS
TE: 2213134-2 + OPTIC CLIP Z50 TYPE1 2213194-1



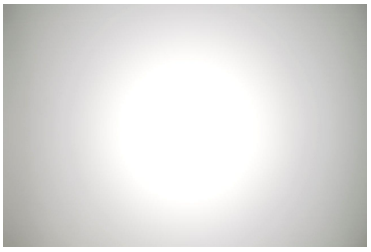
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

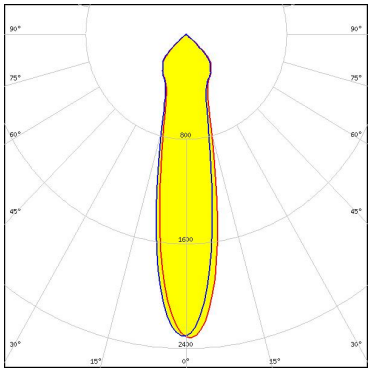
PHOTOMETRIC DATA (MEASURED):

LUMILEDS

LED	LUXEON K16
FWHM	22.0°
Efficiency	94 %
Peak intensity	2.320 cd/lm
LEDs/each optic	1
Light colour	White

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

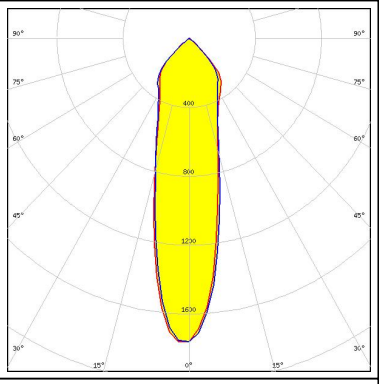




LUMILEDS

LED	LUXEON K16
FWHM	26.0°
Efficiency	89 %
Peak intensity	1.800 cd/lm
LEDs/each optic	1
Light colour	White

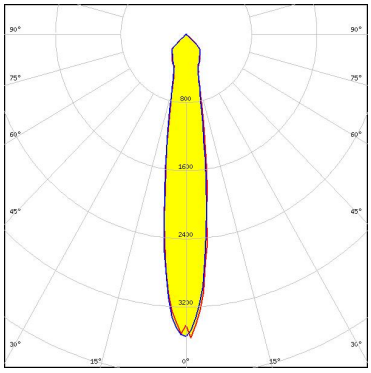
Required components:
F13671_ANGE-RZ-LENS
TE: 2213134-2 + OPTIC CLIP Z50 TYPE1 2213194-1



LUMILEDS

LED	LUXEON S2000
FWHM	17.0°
Efficiency	93 %
Peak intensity	3.600 cd/lm
LEDs/each optic	1
Light colour	White

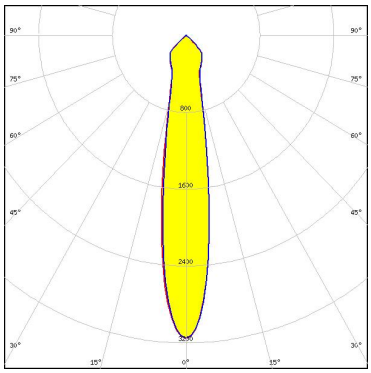
Required components:
C13395_CLAMP-S2000



LUMILEDS

LED	LUXEON S3000
FWHM	18.0°
Efficiency	92 %
Peak intensity	3.200 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13397_CLAMP-S3000



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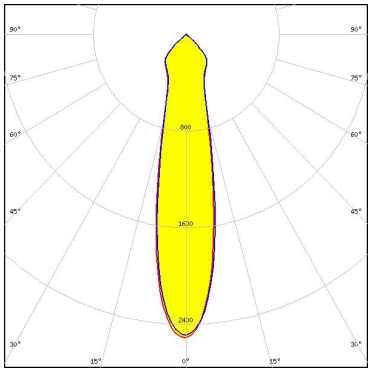
PHOTOMETRIC DATA (MEASURED):

LUMILEDS

LED	LUXEON S5000
FWHM	22.0°
Efficiency	93 %
Peak intensity	2.500 cd/lm
LEDs/each optic	1
Light colour	White

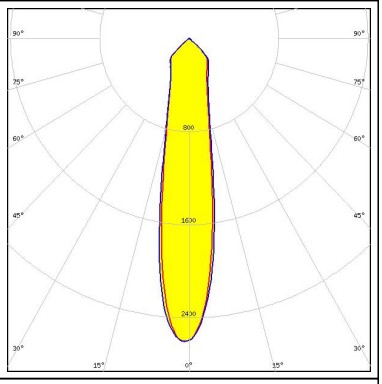
Required components:
C13399_CLAMP-S5000



LUMINUS

LED	CDM-14 (Dim-To-Warm)
FWHM	20.0°
Efficiency	93 %
Peak intensity	2.600 cd/lm
LEDs/each optic	1
Light colour	White

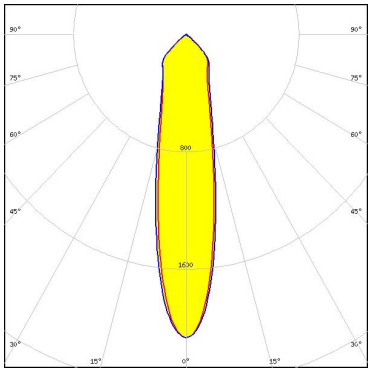
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 491 Typ L2



LUMINUS

LED	CDM-14 (Dim-To-Warm)
FWHM	23.0°
Efficiency	89 %
Peak intensity	2.100 cd/lm
LEDs/each optic	1
Light colour	White

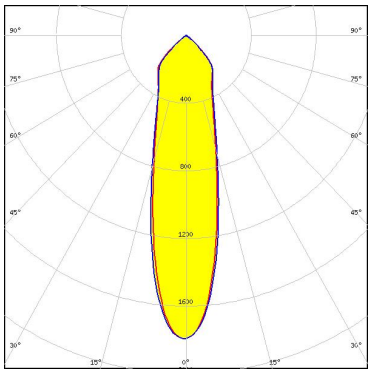
Required components:
C13658_CLAMP-VERO13-18
F13671_ANGE-RZ-LENS
Bender Wirth: 491 Typ L2



LUMINUS

LED	CDM-18 (Dim-To-Warm)
FWHM	26.0°
Efficiency	89 %
Peak intensity	1.800 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13658_CLAMP-VERO13-18
F13671_ANGE-RZ-LENS
Bender Wirth: 491 Typ L2



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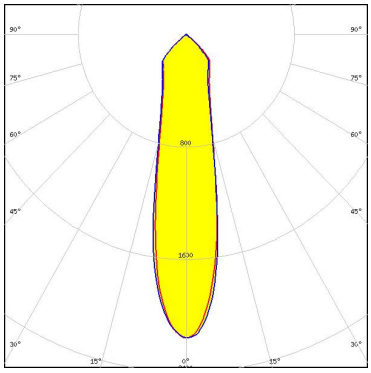
PHOTOMETRIC DATA (MEASURED):

LUMINUS

LED	CDM-18 (Dim-To-Warm)
FWHM	24.0°
Efficiency	93 %
Peak intensity	2.200 cd/lm
LEDs/each optic	1
Light colour	White

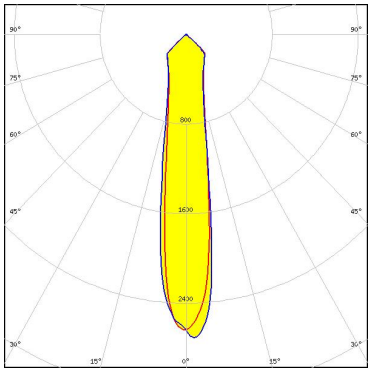
Required components:
- C13658_CLAMP-VERO13-18
- Bender Wirth: 491 Typ L2



LUMINUS

LED	CDM-9 (Dim-To-Warm)
FWHM	18.0°
Efficiency	92 %
Peak intensity	2.700 cd/lm
LEDs/each optic	1
Light colour	White

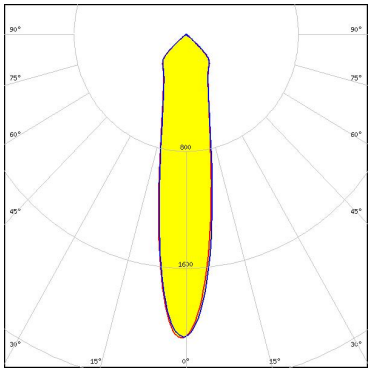
Required components:
- C13658_CLAMP-VERO13-18
- Bender Wirth: 490 Typ L1



LUMINUS

LED	CDM-9 (Dim-To-Warm)
FWHM	21.0°
Efficiency	87 %
Peak intensity	2.100 cd/lm
LEDs/each optic	1
Light colour	White

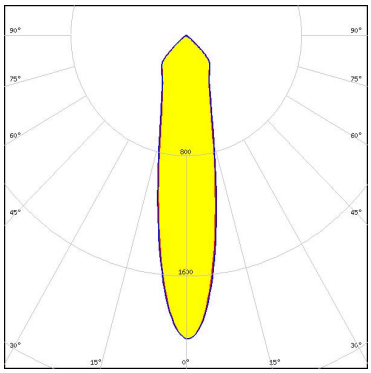
Required components:
- C13658_CLAMP-VERO13-18
- F13671_ANGE-RZ-LENS
- Bender Wirth: 490 Typ L1



LUMINUS

LED	CTM-14 (Tunable White)
FWHM	23.0°
Efficiency	88 %
Peak intensity	2.000 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13584_CLAMP-VERO29
- F13671_ANGE-RZ-LENS
- Bender Wirth: 442 Typ L3



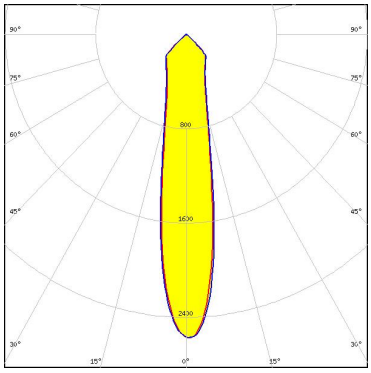
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

PHOTOMETRIC DATA (MEASURED):

LUMINUS

LED	CTM-14 (Tunable White)
FWHM	20.0°
Efficiency	93 %
Peak intensity	2.600 cd/lm
LEDs/each optic	1
Light colour	White

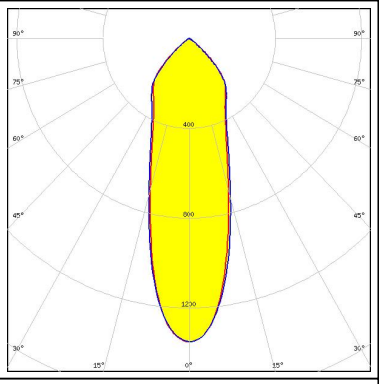
Required components:
C13584_CLAMP-VERO29
Bender Wirth: 442 Typ L3



LUMINUS

LED	CTM-22 (Tunable White)
FWHM	32.0°
Efficiency	87 %
Peak intensity	1.350 cd/lm
LEDs/each optic	1
Light colour	White

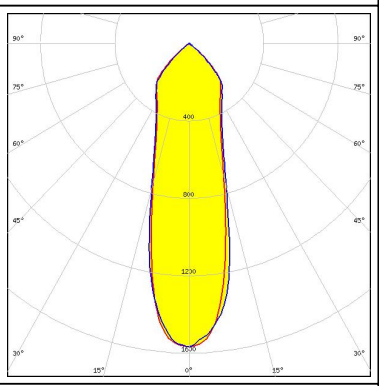
Required components:
C13584_CLAMP-VERO29
F13671_ANGE-RZ-LENS
Bender Wirth: 494 Typ L3



LUMINUS

LED	CTM-22 (Tunable White)
FWHM	29.0°
Efficiency	91 %
Peak intensity	1.570 cd/lm
LEDs/each optic	1
Light colour	White

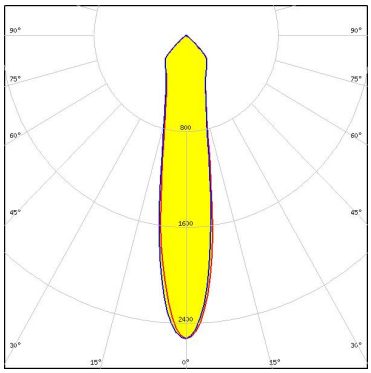
Required components:
C13584_CLAMP-VERO29
Bender Wirth: 494 Typ L3



LUMINUS

LED	CXM-14
FWHM	20.0°
Efficiency	94 %
Peak intensity	2.530 cd/lm
LEDs/each optic	1
Light colour	White

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



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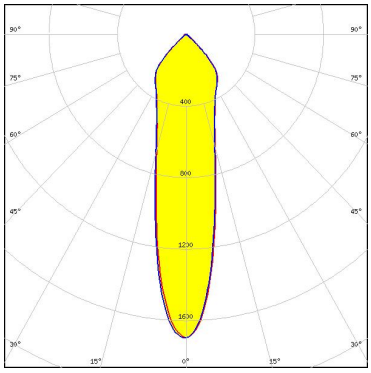
PHOTOMETRIC DATA (MEASURED):

NICHIA

LED	COB J-Type
FWHM	24.0°
Efficiency	87 %
Peak intensity	1.700 cd/lm
LEDs/each optic	1
Light colour	White

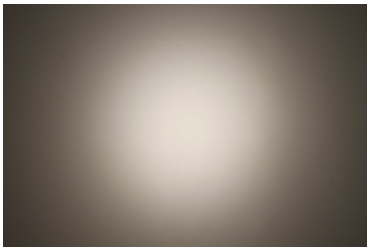
Required components:
F13671_ANGE-RZ-LENS
IDEAL: 50-2103NC + 50-2100AN

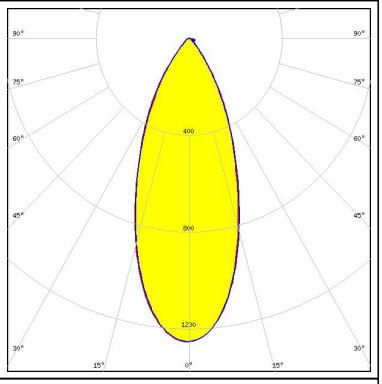


NICHIA

LED	COB J-Type
FWHM	22.0°
Efficiency	93 %
Peak intensity	2.300 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 463 Typ L2

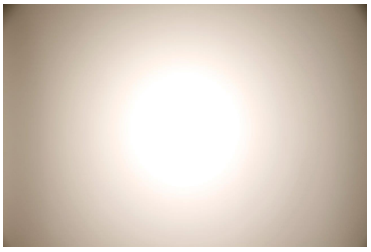


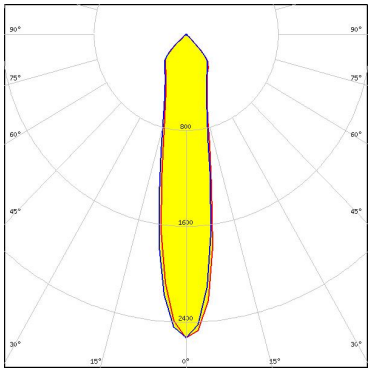


NICHIA

LED	COB J-Type
FWHM	20.0°
Efficiency	94 %
Peak intensity	2.530 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
IDEAL: 50-2103NC + 50-2100AN

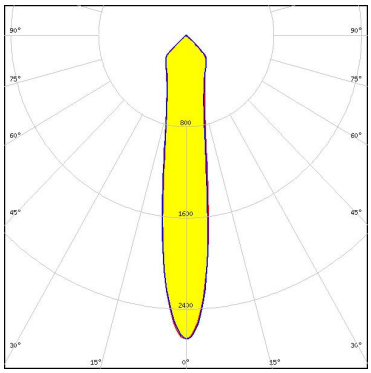




NICHIA

LED	COB L-Type (LES 11)
FWHM	17.0°
Efficiency	92 %
Peak intensity	2.660 cd/lm
LEDs/each optic	1
Light colour	White

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



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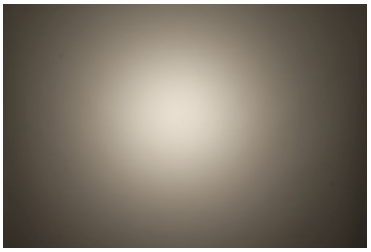
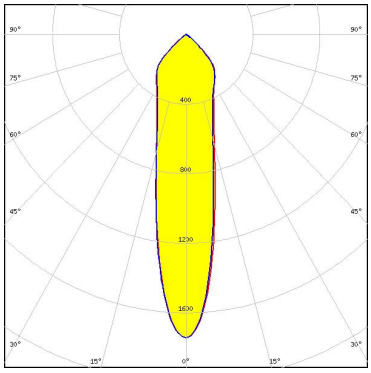
PHOTOMETRIC DATA (MEASURED):

NICHIA

LED	COB L-Type (LES 11)
FWHM	23.0°
Efficiency	86 %
Peak intensity	1.700 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
F13671_ANGE-RZ-LENS
TE: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1

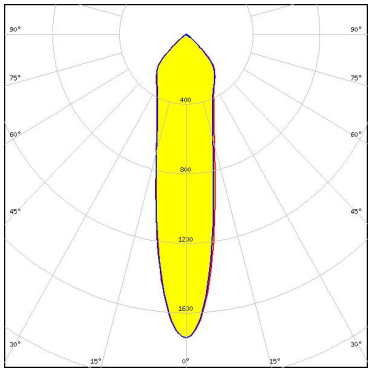




NICHIA

LED	COB L-Type (LES 11)
FWHM	17.0°
Efficiency	92 %
Peak intensity	2.700 cd/lm
LEDs/each optic	1
Light colour	White

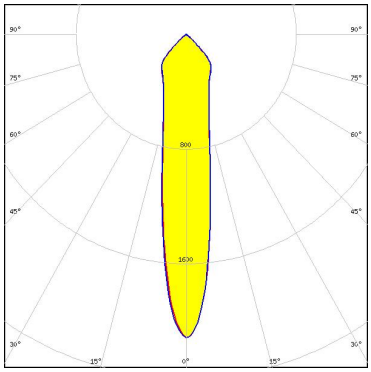
Required components:
TE: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



NICHIA

LED	COB L-Type (LES 11)
FWHM	19.0°
Efficiency	87 %
Peak intensity	2.100 cd/lm
LEDs/each optic	1
Light colour	White

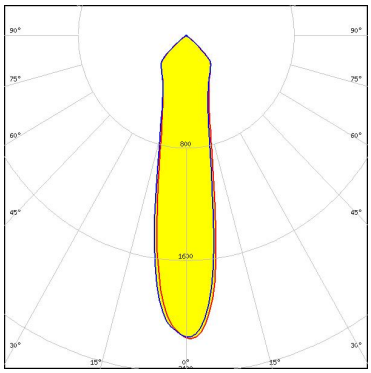
Required components:
F13671_ANGE-RZ-LENS
IDEAL: 50-2100NC + 50-2100AN



NICHIA

LED	COB L-Type (LES 11)
FWHM	22.0°
Efficiency	94 %
Peak intensity	2.160 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
Molex: 180580-0005



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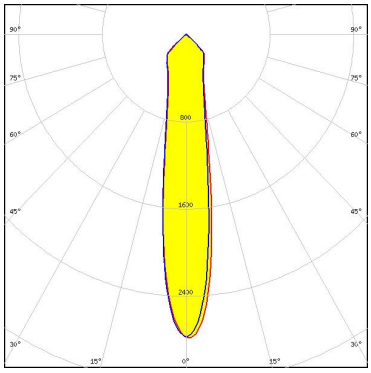
PHOTOMETRIC DATA (MEASURED):

NICHIA

LED	COB L-Type (LES 11)
FWHM	18.0°
Efficiency	93 %
Peak intensity	2.800 cd/lm
LEDs/each optic	1
Light colour	White

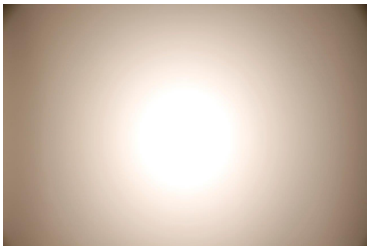
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 438 Typ L1

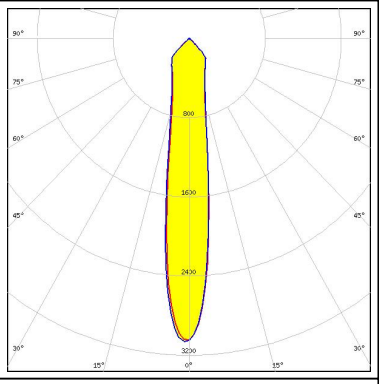


NICHIA

LED	COB L-Type (LES 11)
FWHM	16.0°
Efficiency	91 %
Peak intensity	3.080 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
IDEAL: 50-2100NC + 50-2100AN

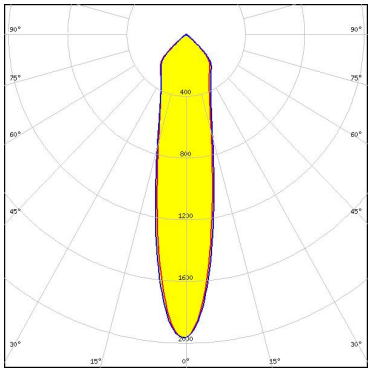




NICHIA

LED	NVCWJ024Z-V1MT: COB J-Type Tunable Whit
FWHM	22.0°
Efficiency	88 %
Peak intensity	2.000 cd/lm
LEDs/each optic	1
Light colour	White

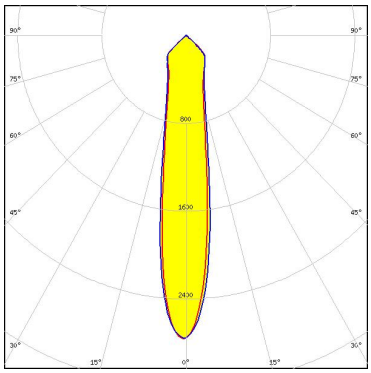
Required components:
C13658_CLAMP-VERO13-18
F13671_ANGE-RZ-LENS
Bender Wirth: 498 Typ L2



NICHIA

LED	NVCWJ024Z-V1MT: COB J-Type Tunable Whit
FWHM	18.0°
Efficiency	93 %
Peak intensity	2.800 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 498 Typ L2



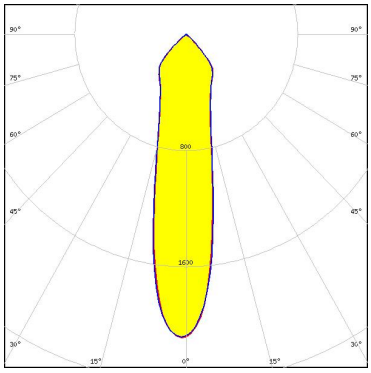
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

PHOTOMETRIC DATA (MEASURED):

OSRAM

LED	PrevaLED Core AC (LEP-2000)
FWHM	23.0°
Efficiency	93 %
Peak intensity	2.100 cd/lm
LEDs/each optic	1
Light colour	White

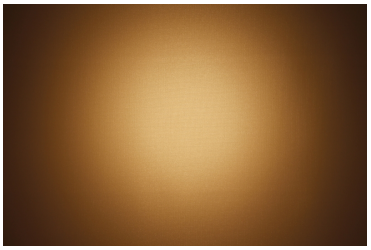
Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1

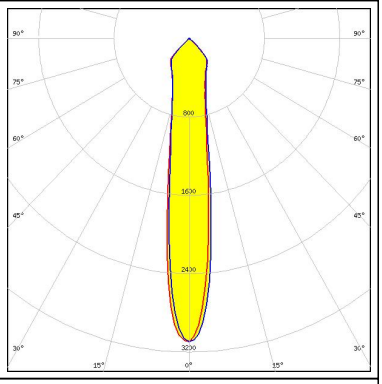


OSRAM

LED	PrevaLED Core AC (LEP-800)
FWHM	16.0°
Efficiency	94 %
Peak intensity	3.100 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1

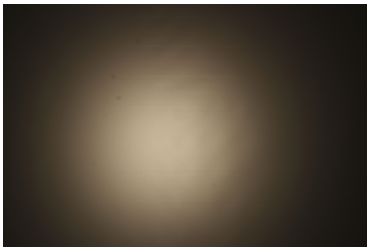


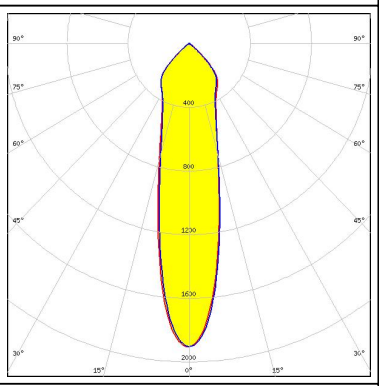


OSRAM

LED	PrevaLED Core G7 L15 H1
FWHM	24.0°
Efficiency	91 %
Peak intensity	1.900 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C16685_CLAMP-PRV-A
F13671_ANGE-RZ-LENS

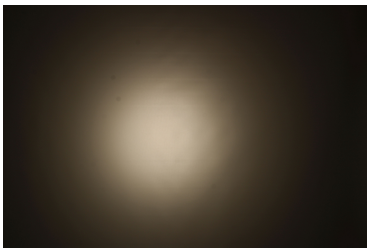


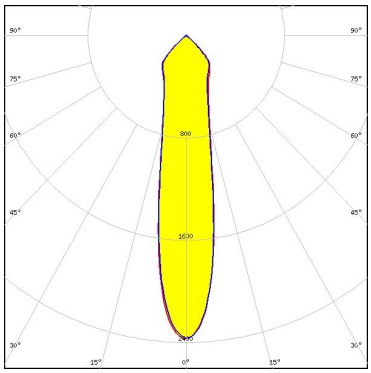


OSRAM

LED	PrevaLED Core G7 L15 H1
FWHM	21.0°
Efficiency	94 %
Peak intensity	2.400 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C16685_CLAMP-PRV-A





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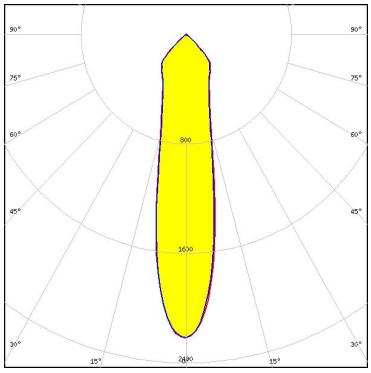
PHOTOMETRIC DATA (MEASURED):

OSRAM

LED	PrevaLED Core Z3 LES19
FWHM	23.0°
Efficiency	94 %
Peak intensity	2.210 cd/lm
LEDs/each optic	1
Light colour	White

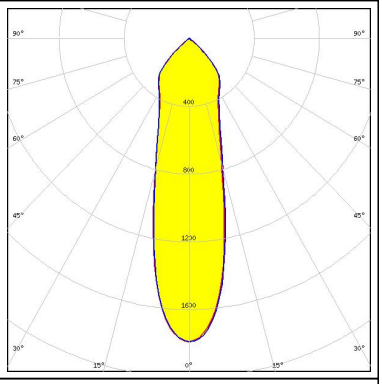
Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1



OSRAM

LED	PrevaLED Core Z3 LES23
FWHM	27.0°
Efficiency	94 %
Peak intensity	1.800 cd/lm
LEDs/each optic	1
Light colour	White

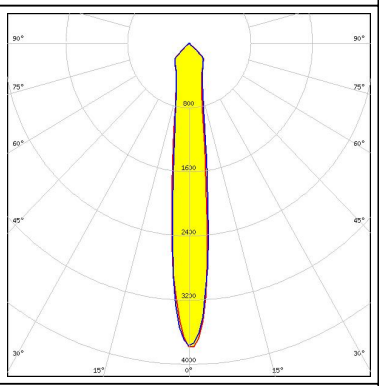
Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1



OSRAM

LED	PrevaLED Core Z3 LES9
FWHM	14.0°
Efficiency	94 %
Peak intensity	3.800 cd/lm
LEDs/each optic	1
Light colour	White

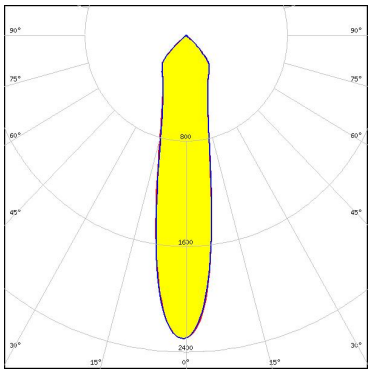
Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1



OSRAM

LED	PrevaLED Core Z4 LES19
FWHM	21.0°
Efficiency	94 %
Peak intensity	2.300 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1



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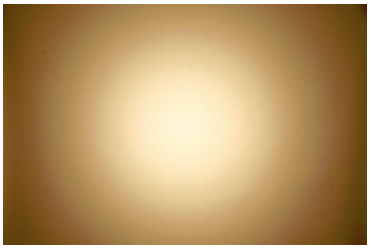
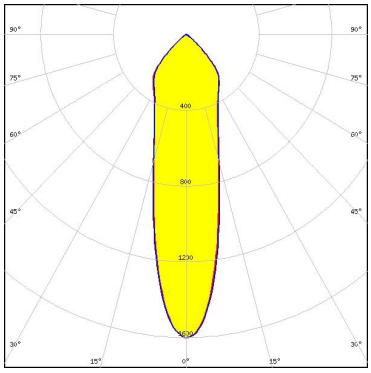
PHOTOMETRIC DATA (MEASURED):

OSRAM

LED	PrevaLED Core Z4 LES19
FWHM	26.0°
Efficiency	88 %
Peak intensity	1.600 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
F13671_ANGE-RZ-LENS
TE: OPTIC CLIP Z50 TYPE1 2213194-1

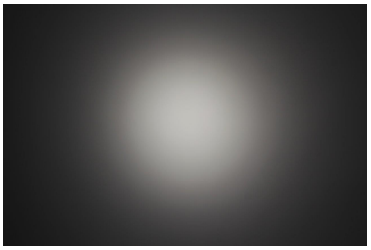


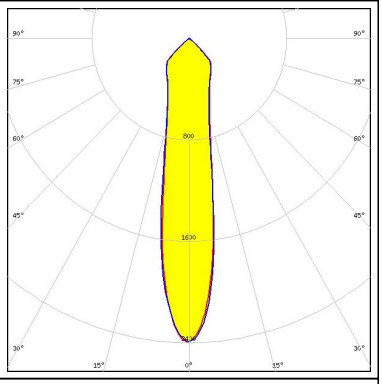


OSRAM Opto Semiconductors

LED	Soleriq S13
FWHM	20.0°
Efficiency	92 %
Peak intensity	2.400 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 437 Typ L1

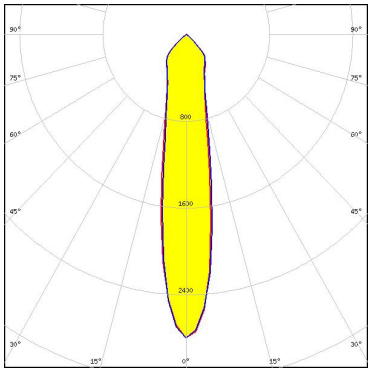




OSRAM Opto Semiconductors

LED	Soleriq S13
FWHM	20.0°
Efficiency	94 %
Peak intensity	2.800 cd/lm
LEDs/each optic	1
Light colour	White

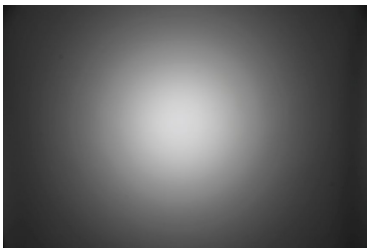
Required components:
TE: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1

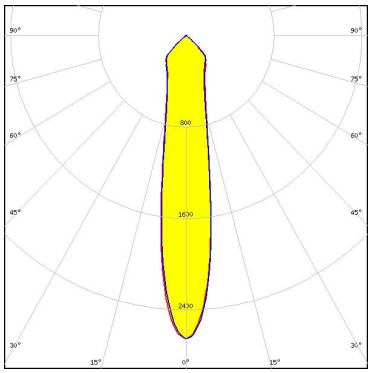


OSRAM Opto Semiconductors

LED	Soleriq S13 Gen2
FWHM	19.0°
Efficiency	93 %
Peak intensity	2.700 cd/lm
LEDs/each optic	1
Light colour	White

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





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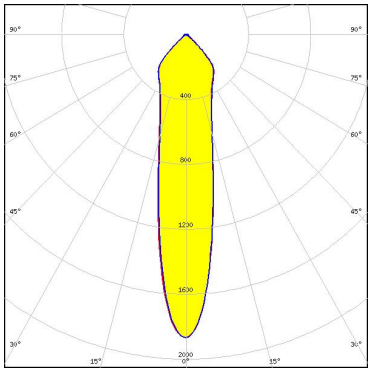
PHOTOMETRIC DATA (MEASURED):

OSRAM
Opto Semiconductors

LED	Soleriq S13 Gen2
FWHM	22.0°
Efficiency	87 %
Peak intensity	1.900 cd/lm
LEDs/each optic	1
Light colour	White

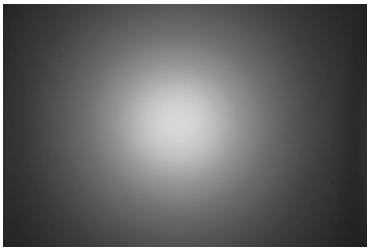
Required components:
F13671_ANGE-RZ-LENS
IDEAL: 50-2103CT + 50-2100AN

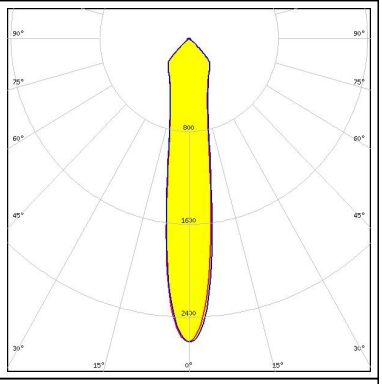


OSRAM
Opto Semiconductors

LED	Soleriq S13 Gen2
FWHM	17.0°
Efficiency	91 %
Peak intensity	2.600 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
IDEAL: 50-2103CT + 50-2100AN

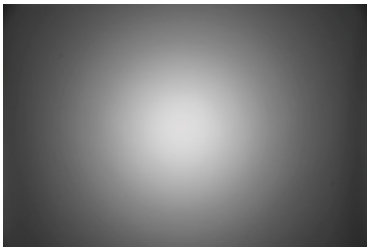


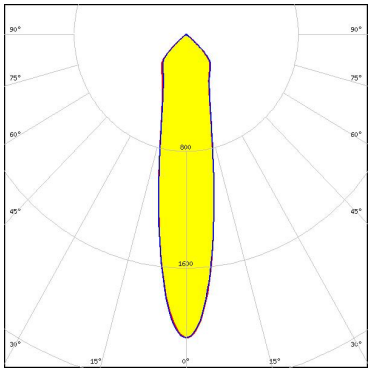


OSRAM
Opto Semiconductors

LED	Soleriq S13 Gen2
FWHM	22.0°
Efficiency	88 %
Peak intensity	2.100 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
F13671_ANGE-RZ-LENS
TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1

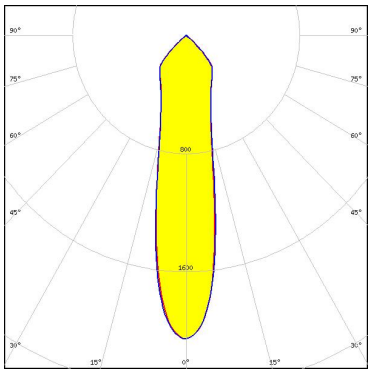




OSRAM
Opto Semiconductors

LED	Soleriq S19
FWHM	23.0°
Efficiency	92 %
Peak intensity	2.100 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13584_CLAMP-VERO29
Bender Wirth: 462 Typ L3



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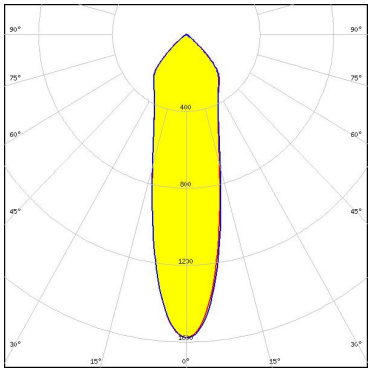
PHOTOMETRIC DATA (MEASURED):

OSRAM Opto Semiconductors

LED	Soleriq S19
FWHM	27.0°
Efficiency	88 %
Peak intensity	1.600 cd/lm
LEDs/each optic	1
Light colour	White

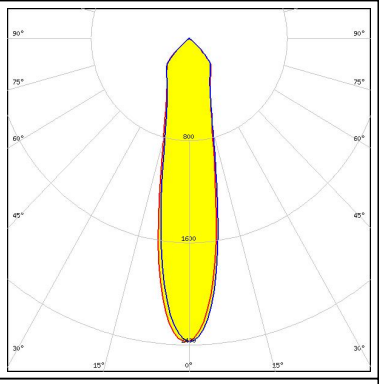
Required components:
F13671_ANGE-RZ-LENS
TE: 2213407-2 + OPTIC CLIP Z50 TYPE1 2213194-1



OSRAM Opto Semiconductors

LED	Soleriq S19
FWHM	22.0°
Efficiency	94 %
Peak intensity	2.380 cd/lm
LEDs/each optic	1
Light colour	White

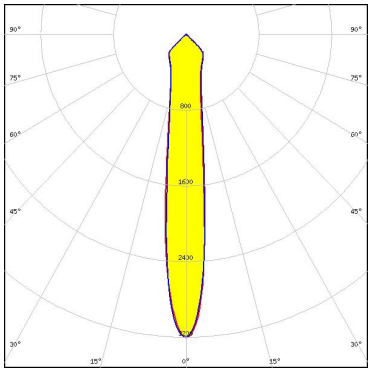
Required components:
TE: 2213407-2 + OPTIC CLIP Z50 TYPE1 2213194-1



PHILIPS

LED	Fortimo SLM L09 + SLM holder
FWHM	15.0°
Efficiency	92 %
Peak intensity	3.200 cd/lm
LEDs/each optic	1
Light colour	White

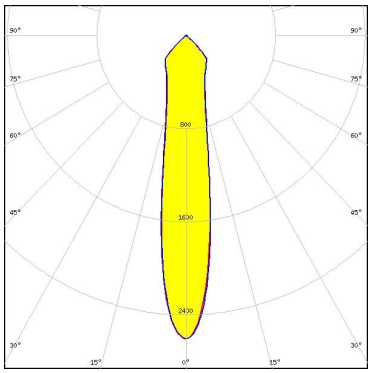
Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1



PHILIPS

LED	Fortimo SLM L13 + SLM holder
FWHM	19.0°
Efficiency	92 %
Peak intensity	2.600 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1



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PHOTOMETRIC DATA (MEASURED):

PHILIPS

LED	Fortimo SLM L13 CoB
FWHM	20.0°
Efficiency	94 %
Peak intensity	2.800 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1

PHILIPS

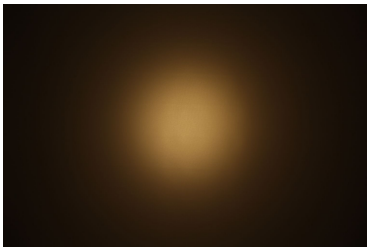
LED	Fortimo SLM L13 CoB
FWHM	23.0°
Efficiency	88 %
Peak intensity	2.000 cd/lm
LEDs/each optic	1
Light colour	White

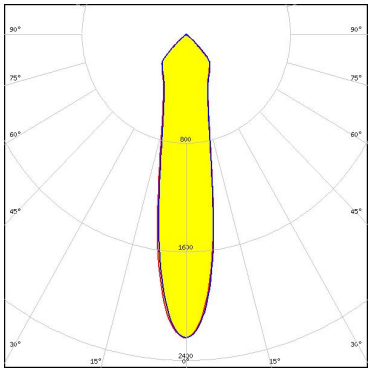
Required components:
F13671_ANGE-RZ-LENS
TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1

PHILIPS

LED	Fortimo SLM L15 + SLM holder
FWHM	21.0°
Efficiency	91 %
Peak intensity	2.240 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1

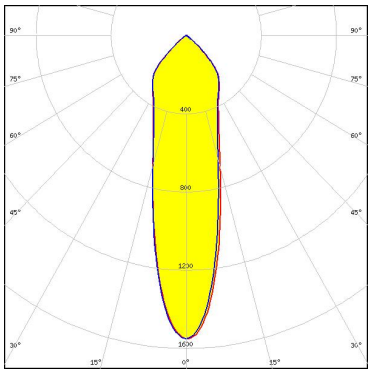




PHILIPS

LED	Fortimo SLM L15 + SLM holder
FWHM	27.0°
Efficiency	87 %
Peak intensity	1.600 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
F13671_ANGE-RZ-LENS
TE: OPTIC CLIP Z50 TYPE1 2213194-1



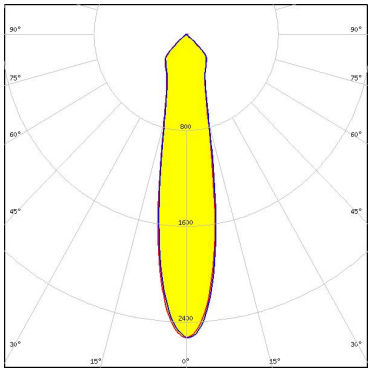
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

PHOTOMETRIC DATA (MEASURED):

PHILIPS

LED	Fortimo SLM L15 CoB
FWHM	22.0°
Efficiency	94 %
Peak intensity	2.500 cd/lm
LEDs/each optic	1
Light colour	White

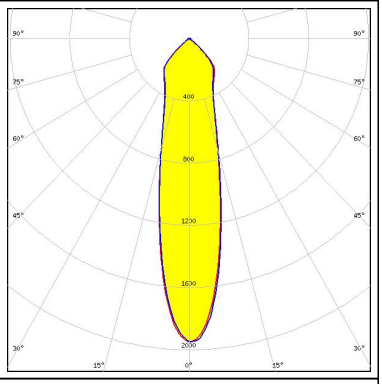
Required components:
TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



PHILIPS

LED	Fortimo SLM L15 CoB
FWHM	24.0°
Efficiency	88 %
Peak intensity	2.000 cd/lm
LEDs/each optic	1
Light colour	White

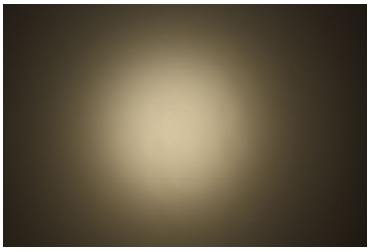
Required components:
F13671_ANGE-RZ-LENS
TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1

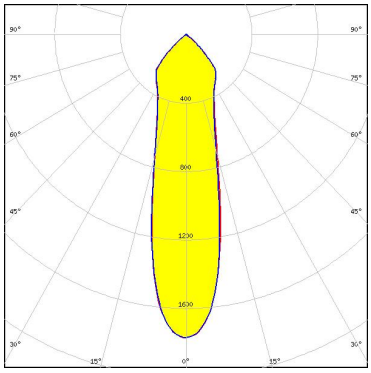


PHILIPS

LED	Fortimo SLM L19 + SLM holder
FWHM	26.0°
Efficiency	90 %
Peak intensity	1.770 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1

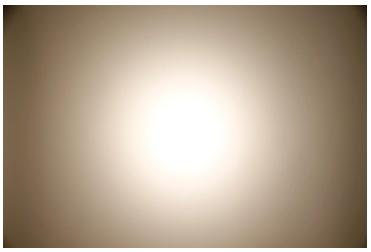


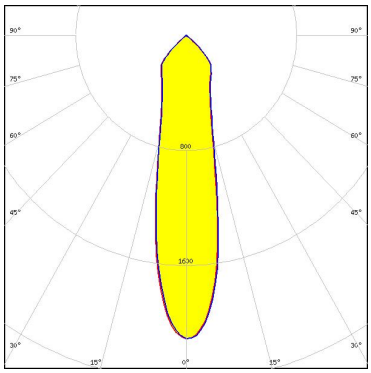


SAMSUNG

LED	LC026B / 033B / 040B
FWHM	24.0°
Efficiency	93 %
Peak intensity	2.100 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
TE: 2213258-2 + OPTIC CLIP Z50 TYPE1 2213194-1





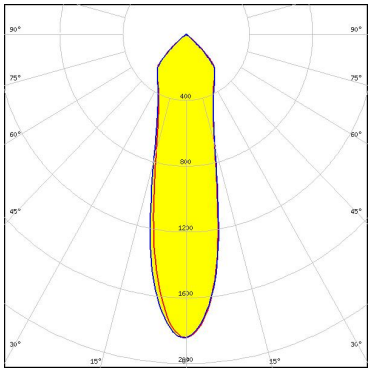
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

PHOTOMETRIC DATA (MEASURED):

SAMSUNG

LED	LC026B / 033B / 040B
FWHM	25.0°
Efficiency	92 %
Peak intensity	1.800 cd/lm
LEDs/each optic	1
Light colour	White

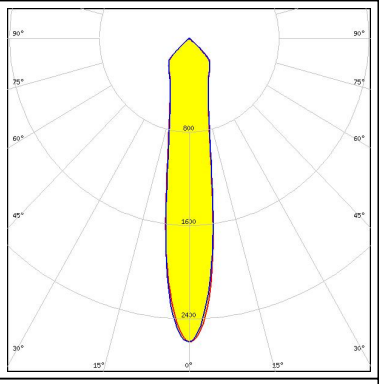
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 450 Typ L2



SAMSUNG

LED	LC040C
FWHM	18.0°
Efficiency	92 %
Peak intensity	2.600 cd/lm
LEDs/each optic	1
Light colour	White

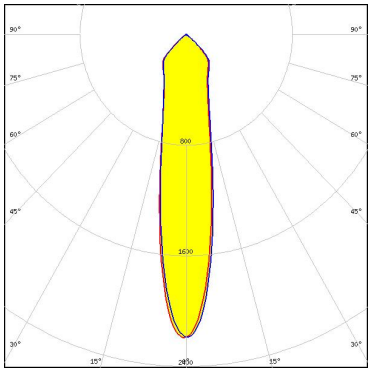
Required components:
TE: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



SAMSUNG

LED	LC040C
FWHM	21.0°
Efficiency	89 %
Peak intensity	2.200 cd/lm
LEDs/each optic	1
Light colour	White

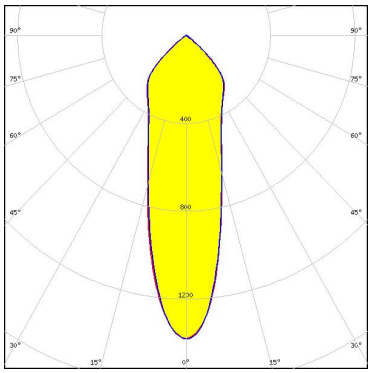
Required components:
F13671_ANGE-RZ-LENS
TE: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



SEOUL SEMICONDUCTOR

LED	AC Zhaga COB
FWHM	30.0°
Efficiency	88 %
Peak intensity	1.400 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
F13671_ANGE-RZ-LENS
Optosource: SEHSMJD-A



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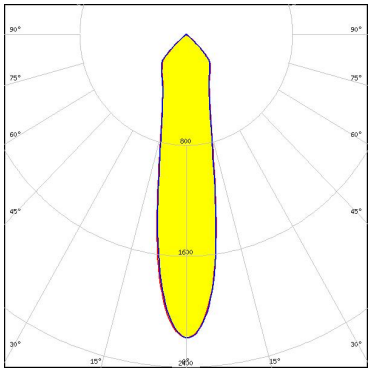
PHOTOMETRIC DATA (MEASURED):

SEOUL SEMICONDUCTOR

LED	MJT COB LES 14.5
FWHM	22.0°
Efficiency	93 %
Peak intensity	2.200 cd/lm
LEDs/each optic	1
Light colour	White

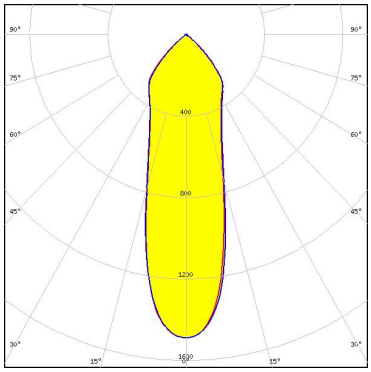
Required components:
TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



SEOUL SEMICONDUCTOR

LED	MJT COB LES 22
FWHM	30.0°
Efficiency	91 %
Peak intensity	1.500 cd/lm
LEDs/each optic	1
Light colour	White

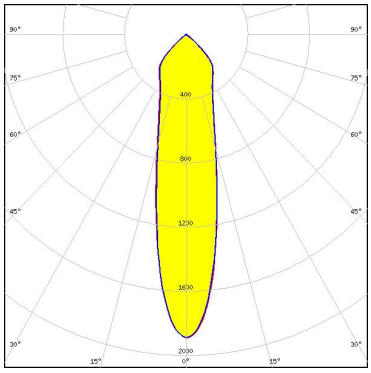
Required components:
C13584_CLAMP-VERO29
Bender Wirth: 431 Typ L3



SHARP

LED	Mega Zenigata (GW6DME)
FWHM	24.0°
Efficiency	89 %
Peak intensity	1.900 cd/lm
LEDs/each optic	1
Light colour	White

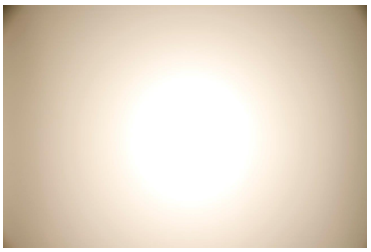
Required components:
F13671_ANGE-RZ-LENS
TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1

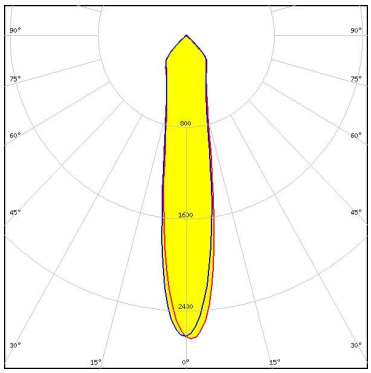


SHARP

LED	Mega Zenigata (GW6DME)
FWHM	20.0°
Efficiency	94 %
Peak intensity	2.650 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
IDEAL: 50-2100SH + 50-2100AN





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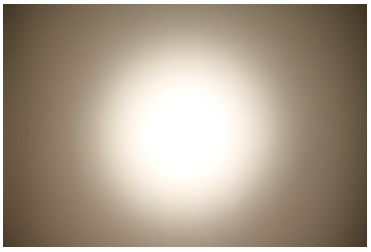
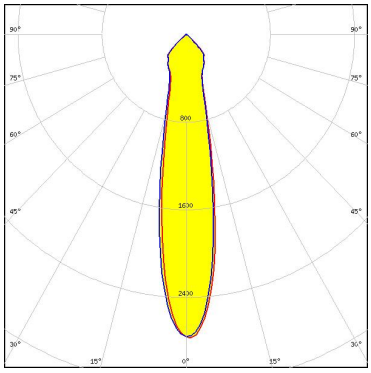
PHOTOMETRIC DATA (MEASURED):

SHARP

LED	Mega Zenigata (GW6DME)
FWHM	21.0°
Efficiency	92 %
Peak intensity	2.770 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1

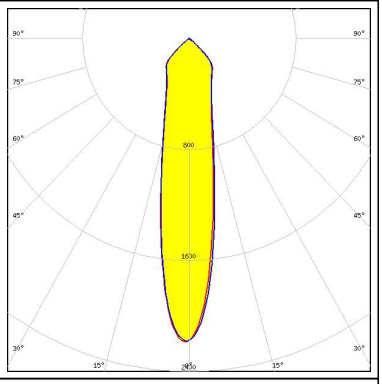




TRIDONIC

LED	SLE G1 11mm 1000lm 927 Sunset R EXC
FWHM	21.0°
Efficiency	90 %
Peak intensity	2.200 cd/lm
LEDs/each optic	1
Light colour	White

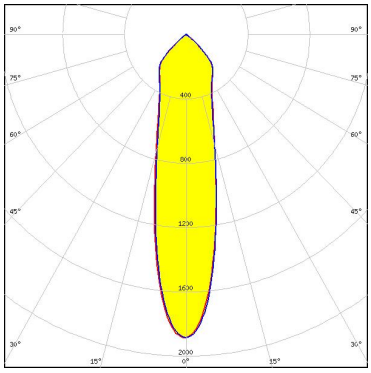
Required components:
F13671_ANGE-RZ-LENS
TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



TRIDONIC

LED	SLE G1 15mm 2000lm 927 Sunset R EXC
FWHM	24.0°
Efficiency	89 %
Peak intensity	1.900 cd/lm
LEDs/each optic	1
Light colour	White

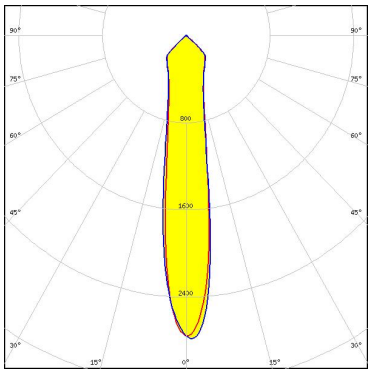
Required components:
F13671_ANGE-RZ-LENS
TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



TRIDONIC

LED	SLE G5 LES11
FWHM	17.0°
Efficiency	92 %
Peak intensity	2.800 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 434 Typ L1



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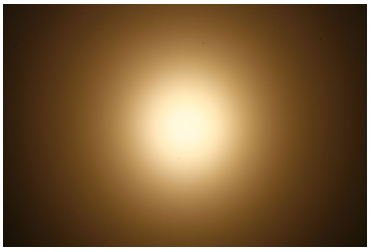
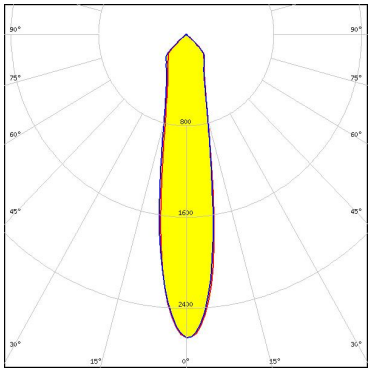
PHOTOMETRIC DATA (MEASURED):

LIGHTING SOLUTIONS

LED	WU-M-461
FWHM	20.0°
Efficiency	94 %
Peak intensity	2.660 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1

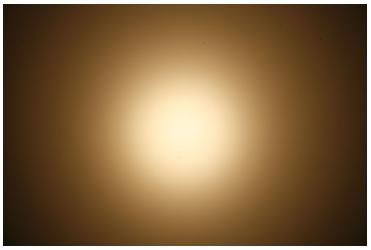


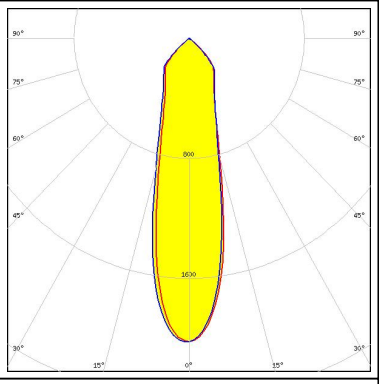


LIGHTING SOLUTIONS

LED	WU-M-462
FWHM	26.0°
Efficiency	94 %
Peak intensity	2.030 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1

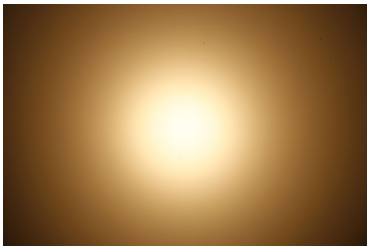


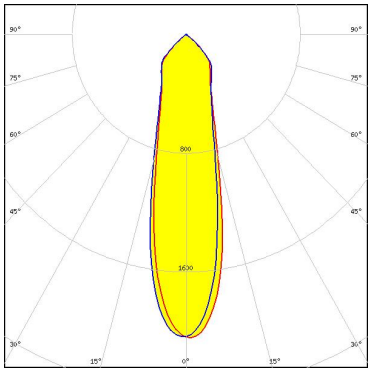


LIGHTING SOLUTIONS

LED	WU-M-464
FWHM	26.0°
Efficiency	94 %
Peak intensity	2.040 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1

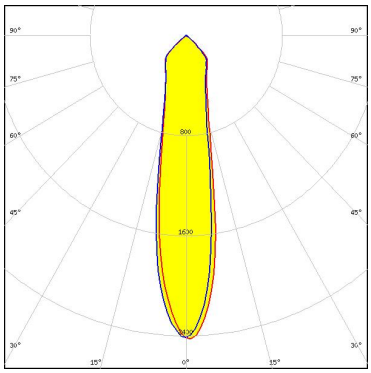




LIGHTING SOLUTIONS

LED	WU-M-484
FWHM	21.0°
Efficiency	93 %
Peak intensity	2.430 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1



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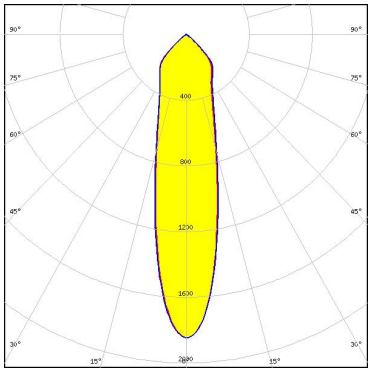
PHOTOMETRIC DATA (MEASURED):

LIGHTING SOLUTIONS

LED	WU-M-484
FWHM	25.0°
Efficiency	88 %
Peak intensity	1.800 cd/lm
LEDs/each optic	1
Light colour	White

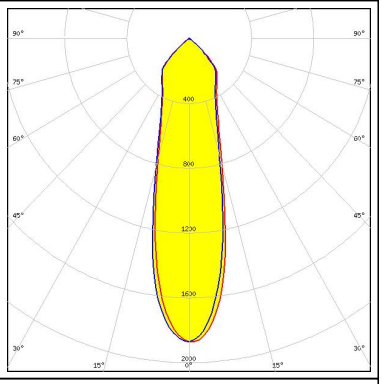
Required components:
C13333_MIRELLA-CL
TE: OPTIC CLIP Z50 TYPE1 2213194-1



LIGHTING SOLUTIONS

LED	WU-M-485
FWHM	27.0°
Efficiency	93 %
Peak intensity	1.870 cd/lm
LEDs/each optic	1
Light colour	White

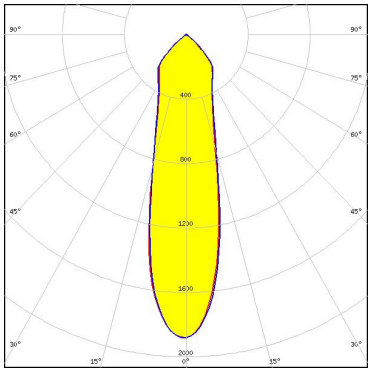
Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1



LIGHTING SOLUTIONS

LED	WU-M-486
FWHM	26.0°
Efficiency	93 %
Peak intensity	1.880 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
TE: OPTIC CLIP Z50 TYPE1 2213194-1



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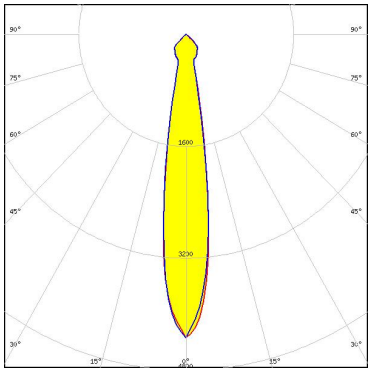
PHOTOMETRIC DATA (SIMULATED):

bridgelux

LED	V10 Gen7
FWHM	17.0°
Efficiency	94 %
Peak intensity	4.340 cd/lm
LEDs/each optic	1
Light colour	White

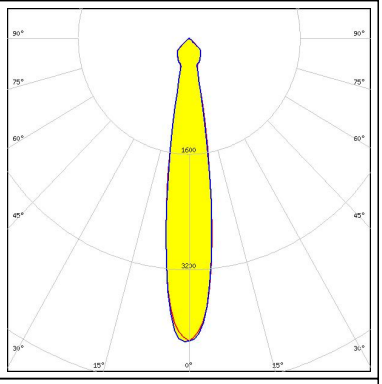
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 486 Typ L1



bridgelux

LED	V10 Gen7
FWHM	17.0°
Efficiency	94 %
Peak intensity	4.230 cd/lm
LEDs/each optic	1
Light colour	White

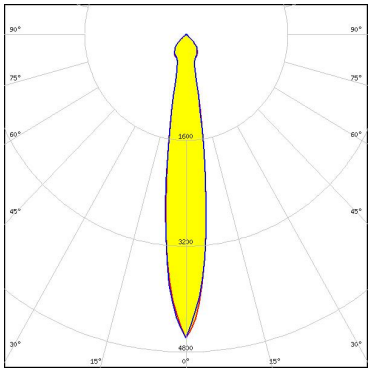
Required components:
C13584_CLAMP-VERO29
Bender Wirth: 486 Typ L1



bridgelux

LED	V13 Gen7
FWHM	16.0°
Efficiency	93 %
Peak intensity	4.580 cd/lm
LEDs/each optic	1
Light colour	White

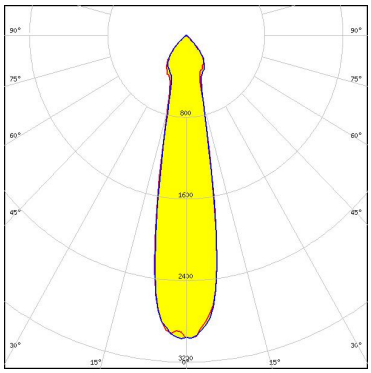
Required components:
IDEAL: 50-2103CT + 50-2100AN



bridgelux

LED	V22 Gen7
FWHM	21.0°
Efficiency	94 %
Peak intensity	3.038 cd/lm
LEDs/each optic	1
Light colour	White

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



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PHOTOMETRIC DATA (SIMULATED):

LUMINUS

LED	CXM-14
FWHM	21.0°
Efficiency	92 %
Peak intensity	2.300 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 433 Typ L1

LUMINUS

LED	CXM-9
FWHM	17.0°
Efficiency	93 %
Peak intensity	2.900 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	21.0°
Efficiency	92 %
Peak intensity	2.300 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	17.0°
Efficiency	93 %
Peak intensity	2.900 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 434 Typ L1

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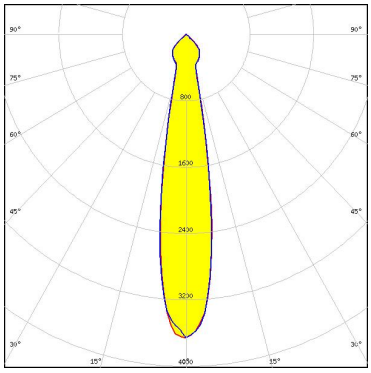
PHOTOMETRIC DATA (SIMULATED):

TRIDONIC

LED	SLE G6 LES15
FWHM	19.0°
Efficiency	92 %
Peak intensity	3.700 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

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

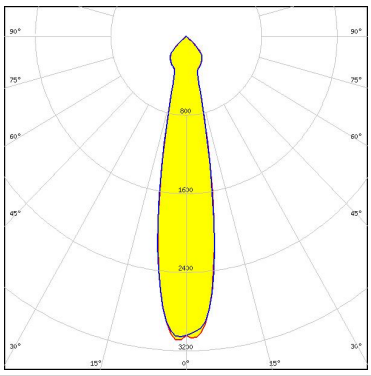


TRIDONIC

LED	SLE G6 LES17
FWHM	21.0°
Efficiency	89 %
Peak intensity	3.100 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

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



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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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USA

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