ANGELINA-M

~30° medium beam



TECHNICAL SPECIFICATIONS:

Dimensions	Ø 82.0 mm
Height	31 mm
Fastening	socket
ROHS compliant	yes

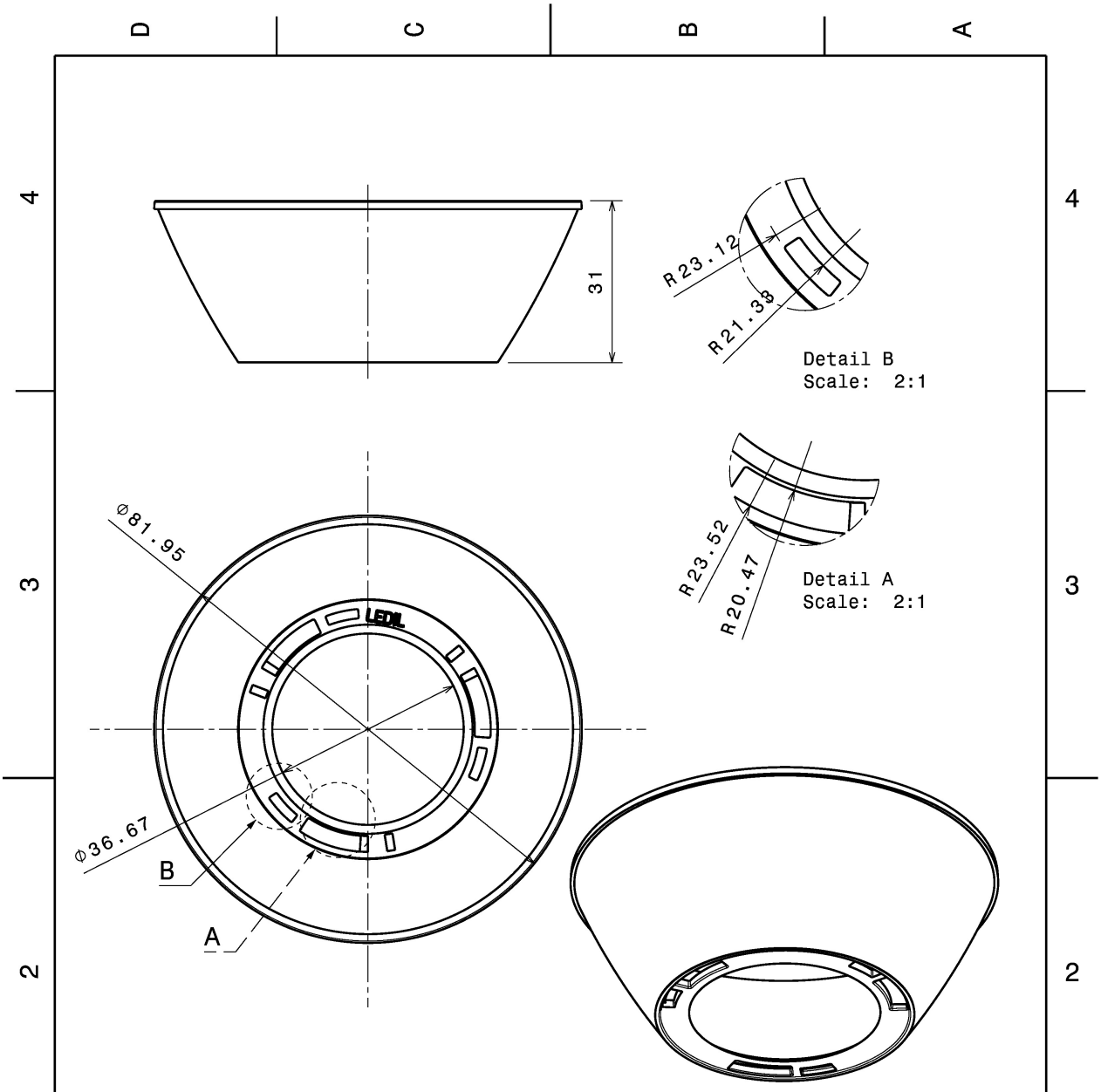
MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish	Coating
ANGELINA-M	Reflector	PC	metal		HMDS

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
F13401_ANGELINA-M » Box size: 480 x 280 x 300 mm	900	120	60	11.0

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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 -

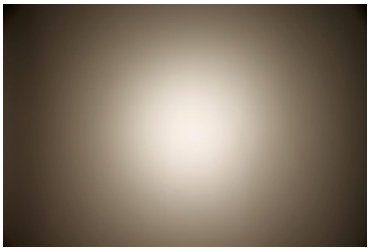
SCALE 1:1 | WEIGHT - | SHEET 1/1

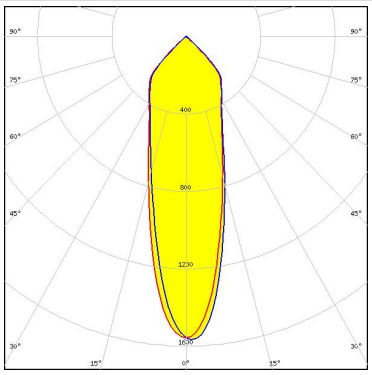
PHOTOMETRIC DATA (MEASURED):

bridgelux

LED	BXRA ES Rectangle
FWHM	30.0°
Efficiency	93 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White

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



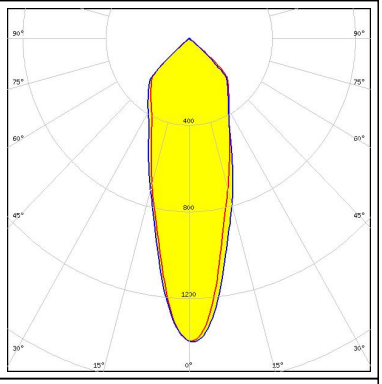


bridgelux

LED	V10 Gen7
FWHM	30.0°
Efficiency	92 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White

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



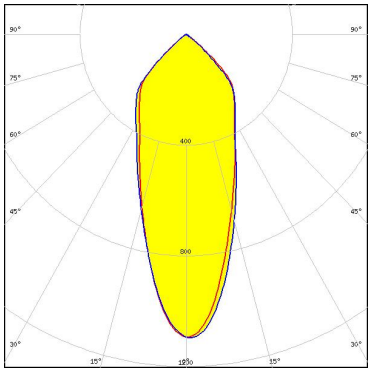


bridgelux

LED	V10 Gen7
FWHM	38.0°
Efficiency	87 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White

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



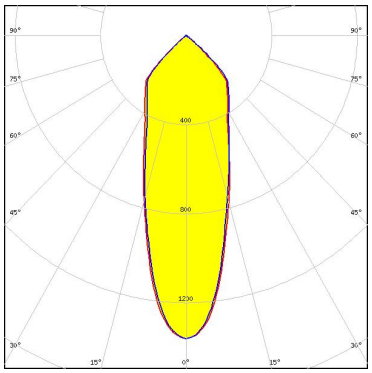


bridgelux

LED	V13 Gen7
FWHM	34.0°
Efficiency	92 %
Peak intensity	1.4 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):

bridgelux

LED	V15 Gen6
FWHM	37.0°
Efficiency	92 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White

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

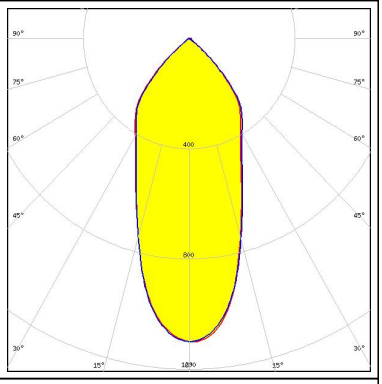


bridgelux

LED	V22 Gen6
FWHM	43.0°
Efficiency	91 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White

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



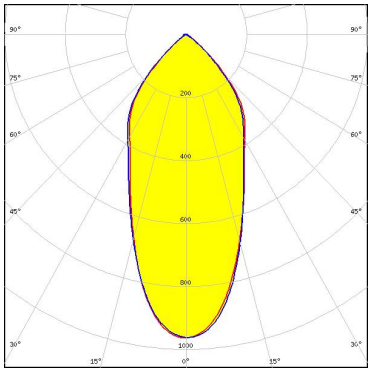


bridgelux

LED	V22 Gen6
FWHM	47.0°
Efficiency	87 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour	White

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



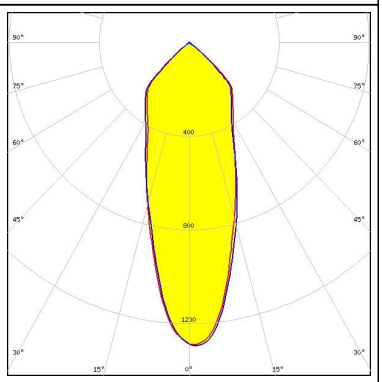


bridgelux

LED	Vero SE 13
FWHM	36.0°
Efficiency	93 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C16402_CLAMP-VEROSE-13-18





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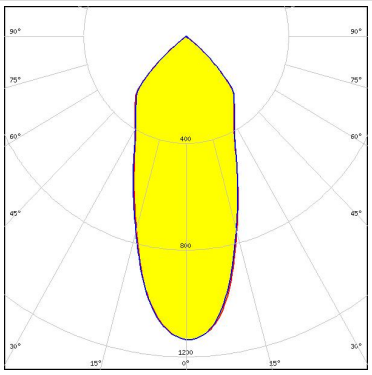
PHOTOMETRIC DATA (MEASURED):

bridgelux

LED	Vero SE 18
FWHM	42.0°
Efficiency	93 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C16402_CLAMP-VEROSE-13-18



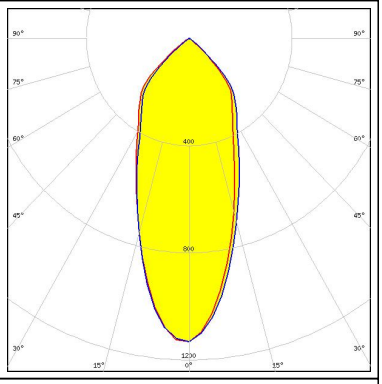


bridgelux

LED	VERO13
FWHM	42.0°
Efficiency	87 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White

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

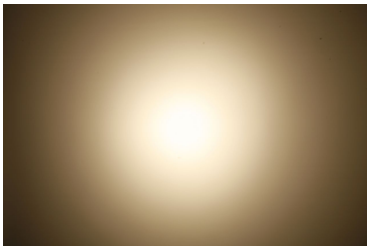


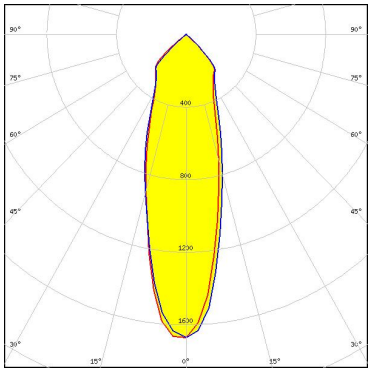


bridgelux

LED	VERO13
FWHM	31.0°
Efficiency	92 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13658_CLAMP-VERO13-18

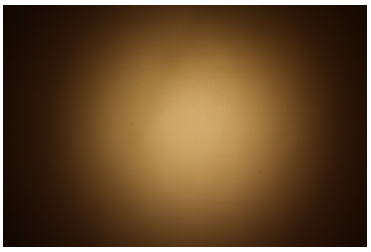


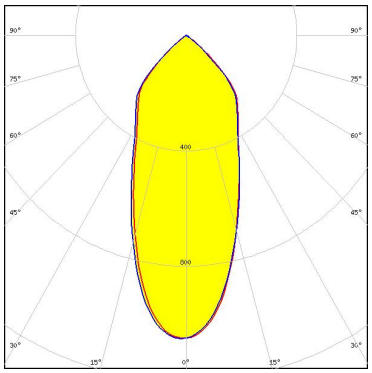


bridgelux

LED	VERO18
FWHM	43.0°
Efficiency	89 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White

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





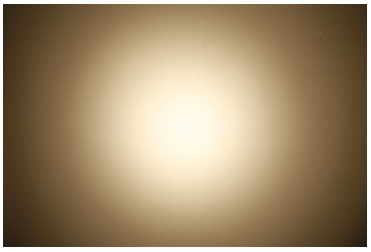
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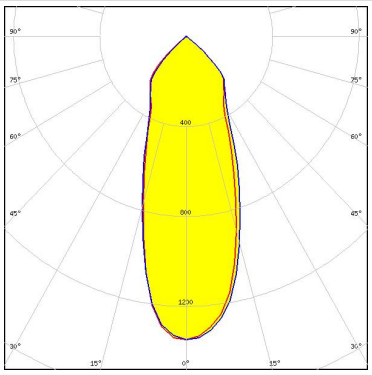
PHOTOMETRIC DATA (MEASURED):

bridgelux

LED	VERO18
FWHM	38.0°
Efficiency	92 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13658_CLAMP-VERO13-18



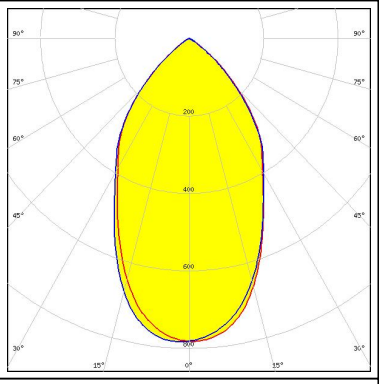


bridgelux

LED	VERO29
FWHM	60.0°
Efficiency	87 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13584_CLAMP-VERO29
F13671_ANGE-RZ-LENS



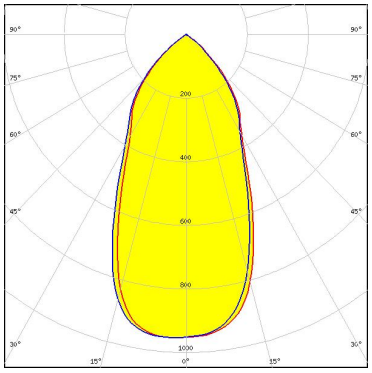


bridgelux

LED	VERO29
FWHM	51.0°
Efficiency	90 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13584_CLAMP-VERO29



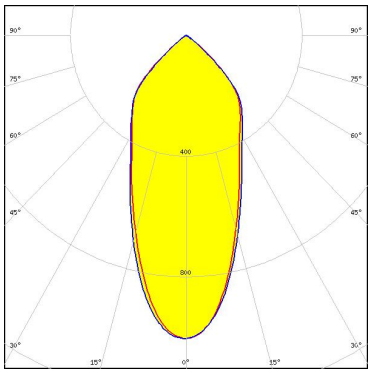


bridgelux

LED	Vesta TW 15mm DP
FWHM	45.0°
Efficiency	89 %
Peak intensity	1 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





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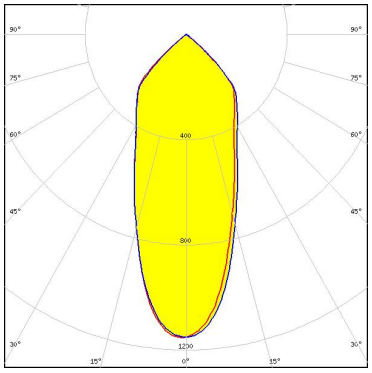
PHOTOMETRIC DATA (MEASURED):

bridgelux

LED	Vesta TW 15mm DP
FWHM	41.0°
Efficiency	93 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	Tunable White

Required components:
- C13658_CLAMP-VERO13-18
- Bender Wirth: 482 Typ L2



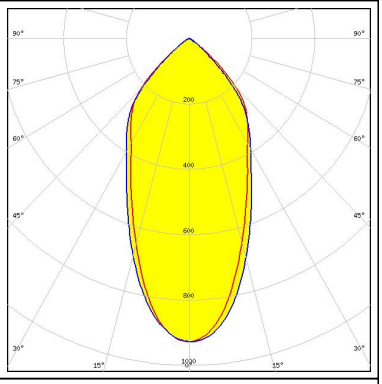


bridgelux

LED	Vesta TW 18mm (31W) DP
FWHM	49.0°
Efficiency	89 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour	Tunable White

Required components:
- C13584_CLAMP-VERO29
- F13671_ANGE-RZ-LENS
- Bender Wirth: 483 Typ L3



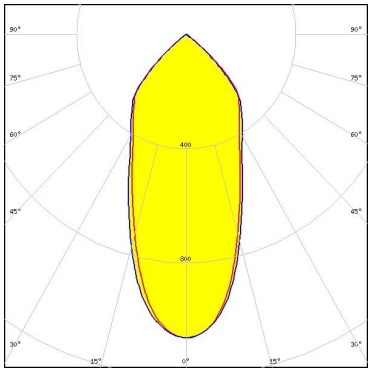


bridgelux

LED	Vesta TW 18mm (31W) DP
FWHM	45.0°
Efficiency	93 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	Tunable White

Required components:
- C13584_CLAMP-VERO29
- Bender Wirth: 483 Typ L3



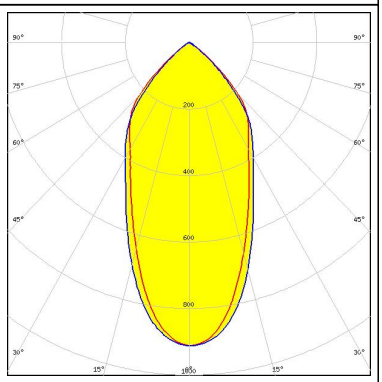


bridgelux

LED	Vesta TW 22mm DP
FWHM	50.0°
Efficiency	88 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour	Tunable White

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





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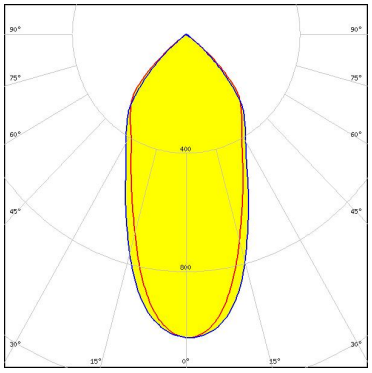
PHOTOMETRIC DATA (MEASURED):

bridgelux

LED	Vesta TW 22mm DP
FWHM	47.0°
Efficiency	93 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour	Tunable White

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



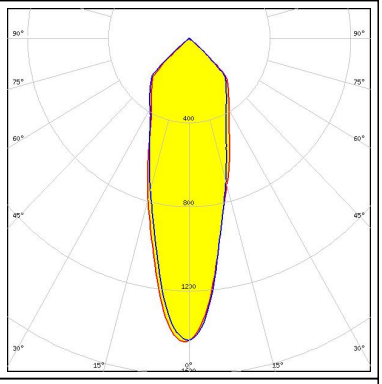


CITIZEN

LED	CLL02x/CLU02x (LES10)
FWHM	31.0°
Efficiency	92 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White

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

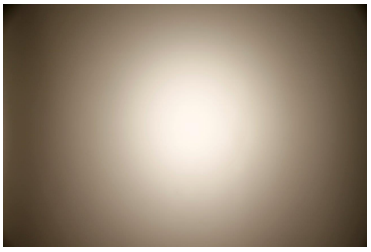


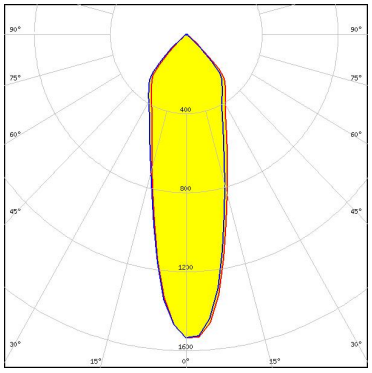


CITIZEN

LED	CLL03x/CLU03x
FWHM	30.0°
Efficiency	92 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White

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

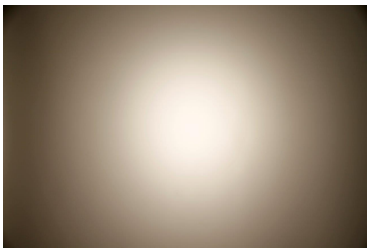


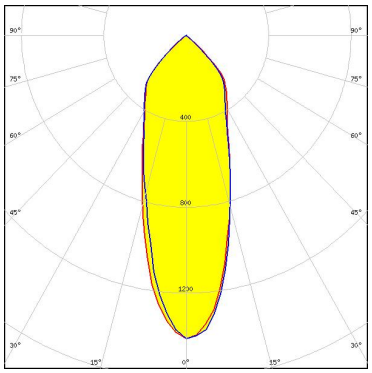


CITIZEN

LED	CLL03x/CLU03x
FWHM	35.0°
Efficiency	94 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White

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





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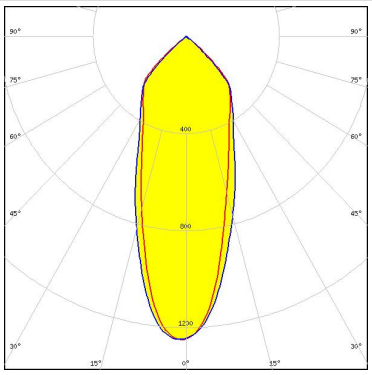
PHOTOMETRIC DATA (MEASURED):

CITIZEN

LED	CLL03x/CLU03x
FWHM	37.0°
Efficiency	91 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour	White

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



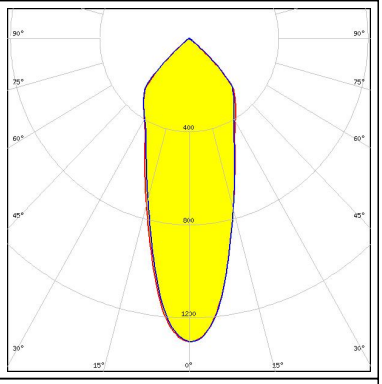


CITIZEN

LED	CLL03x/CLU03x
FWHM	36.0°
Efficiency	94 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour	White

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



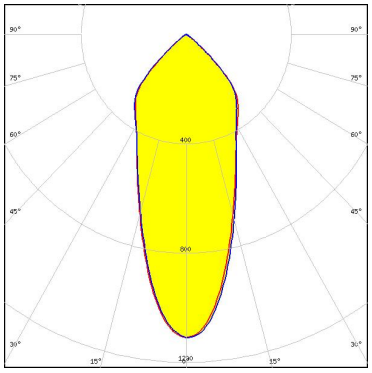


CITIZEN

LED	CLL03x/CLU03x
FWHM	39.0°
Efficiency	90 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White

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

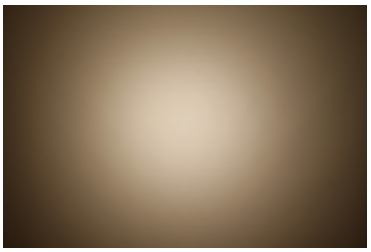


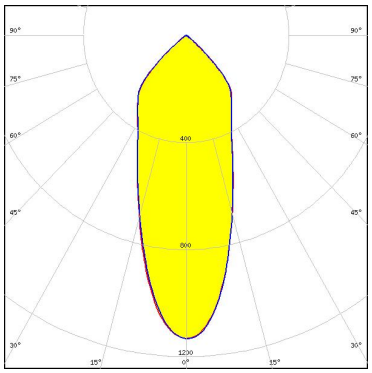


CITIZEN

LED	CLL03x/CLU03x
FWHM	38.0°
Efficiency	87 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White

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





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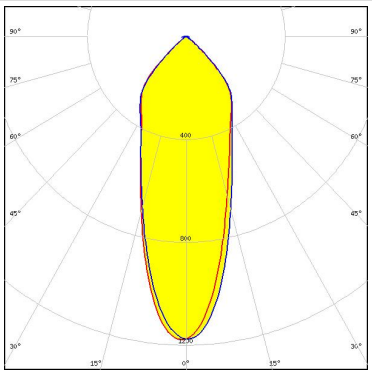
PHOTOMETRIC DATA (MEASURED):

CITIZEN

LED	CLL03x/CLU03x
FWHM	36.0°
Efficiency	87 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White

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

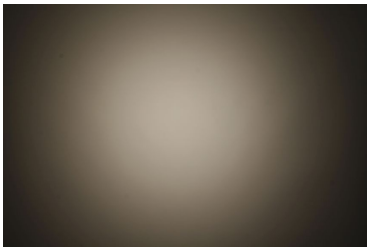


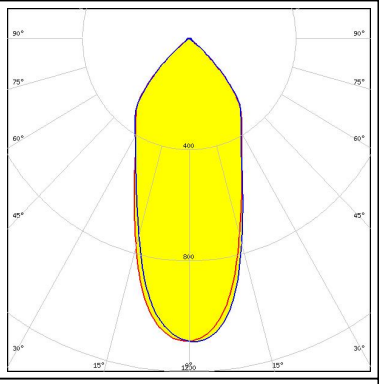


CITIZEN

LED	CLL04x/CLU04x
FWHM	43.0°
Efficiency	91 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White

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



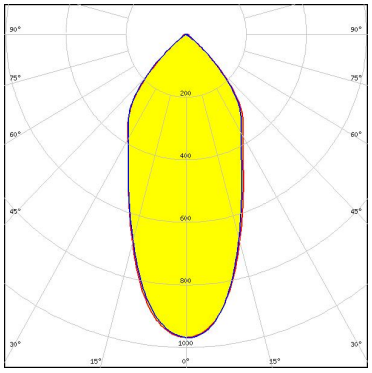


CITIZEN

LED	CLL04x/CLU04x
FWHM	46.0°
Efficiency	87 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour	White

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



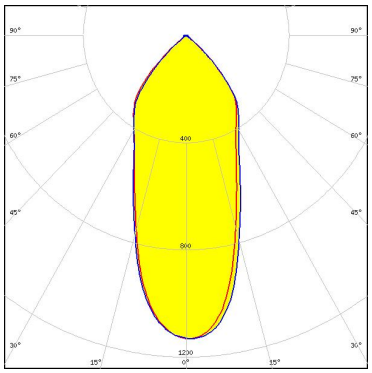


CITIZEN

LED	CLL04x/CLU04x
FWHM	42.0°
Efficiency	92 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White

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





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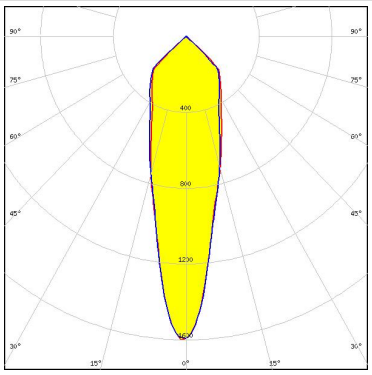
PHOTOMETRIC DATA (MEASURED):

CITIZEN

LED	CLU700/701/702
FWHM	26.0°
Efficiency	92 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White

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

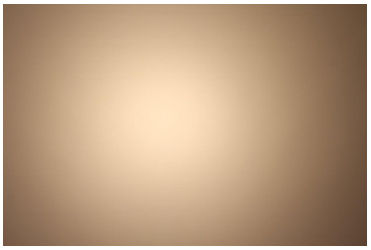


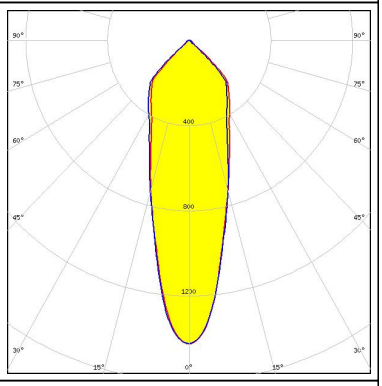


CITIZEN

LED	CLU720/721
FWHM	31.0°
Efficiency	94 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White

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



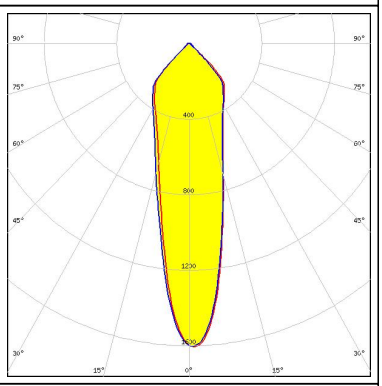


CITIZEN

LED	CLU720/721
FWHM	26.0°
Efficiency	93 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White

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



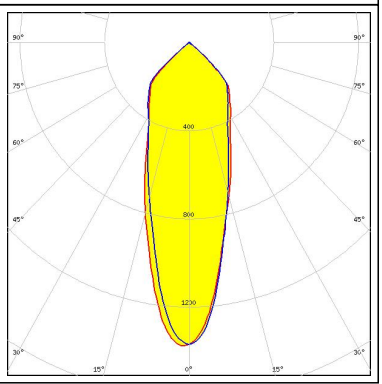


CITIZEN

LED	CLU720/721
FWHM	33.0°
Efficiency	91 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13658_CLAMP-VERO13-18





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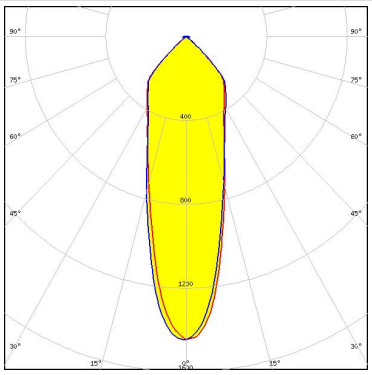
PHOTOMETRIC DATA (MEASURED):

CITIZEN

LED	CLU730/731
FWHM	31.0°
Efficiency	91 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White

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

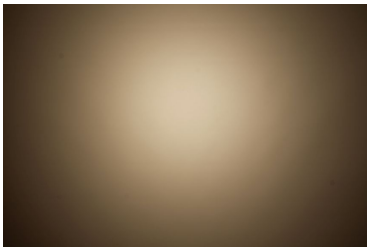


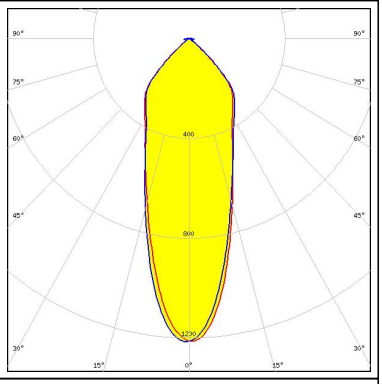


CITIZEN

LED	CLU730/731
FWHM	35.0°
Efficiency	87 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White

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



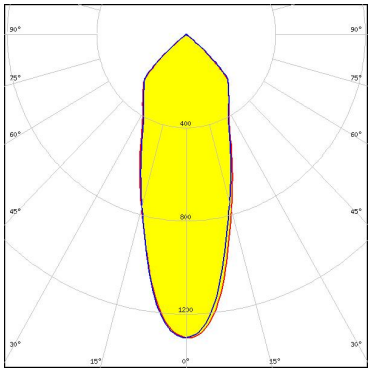


CREE

LED	CMA1840
FWHM	37.0°
Efficiency	94 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C14123_CLAMP-CXA15-18



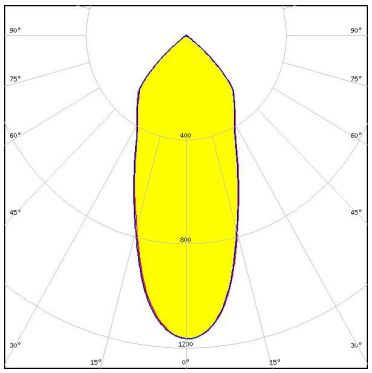


CREE

LED	CMA2550
FWHM	42.0°
Efficiency	94 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C14036_CLAMP_CXA25-30





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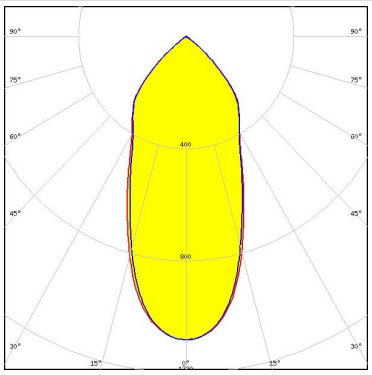
PHOTOMETRIC DATA (MEASURED):

CREE

LED	CMA3090
FWHM	46.0°
Efficiency	94 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C14036_CLAMP_CXA25-30



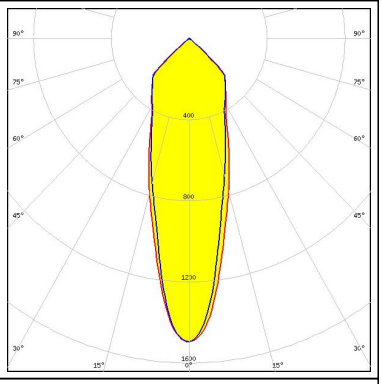


CREE

LED	CMT14xx
FWHM	30.0°
Efficiency	93 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour	White

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



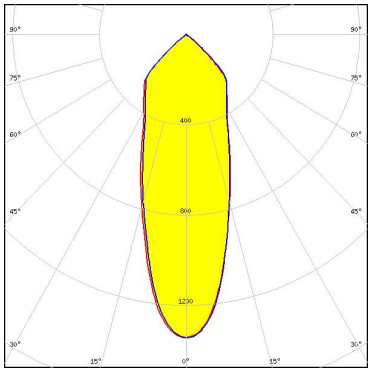


CREE

LED	CMT19xx
FWHM	36.0°
Efficiency	94 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 477 Typ L1



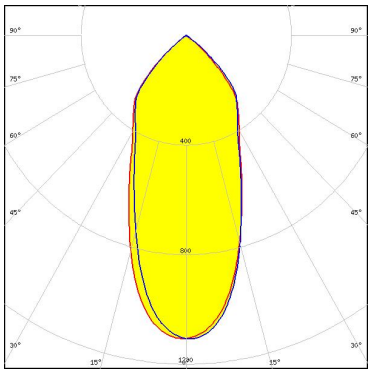


CREE

LED	CMT28xx
FWHM	44.0°
Efficiency	94 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13584_CLAMP-VERO29
Bender Wirth: 471 Typ L3





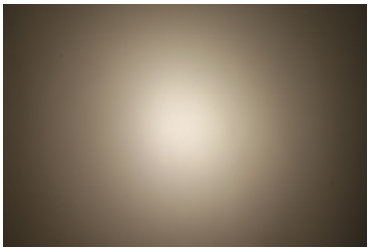
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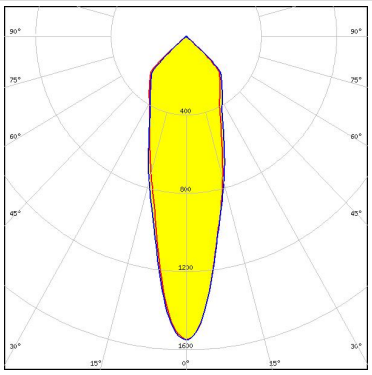
PHOTOMETRIC DATA (MEASURED):

CREE

LED	CXA/B 15xx
FWHM	28.0°
Efficiency	92 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour	White

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



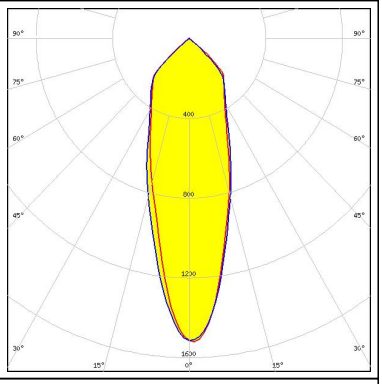


CREE

LED	CXA/B 15xx
FWHM	33.0°
Efficiency	94 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C14123_CLAMP-CXA15-18



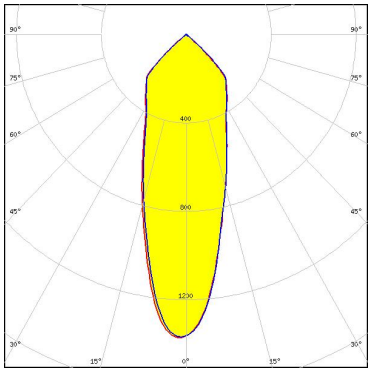


CREE

LED	CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM	33.0°
Efficiency	92 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White

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



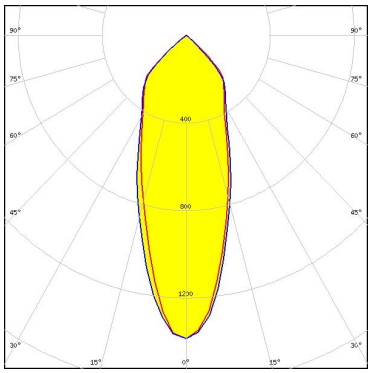


CREE

LED	CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM	37.0°
Efficiency	94 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C14123_CLAMP-CXA15-18





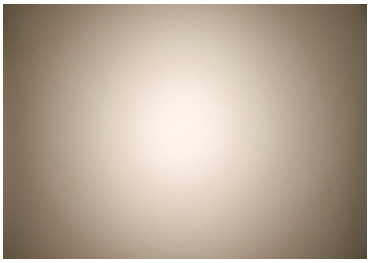
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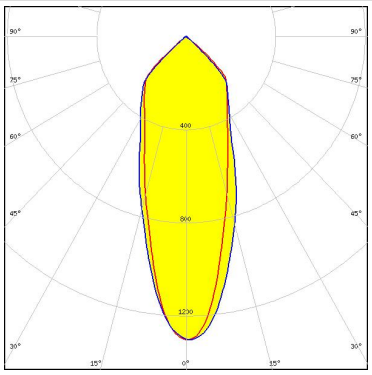
PHOTOMETRIC DATA (MEASURED):

CREE

LED	CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM	36.0°
Efficiency	91 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour	White

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



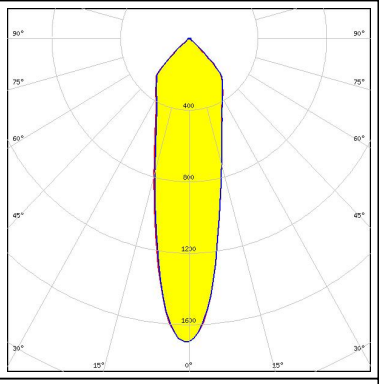


CREE

LED	CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM	26.0°
Efficiency	93 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	White

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

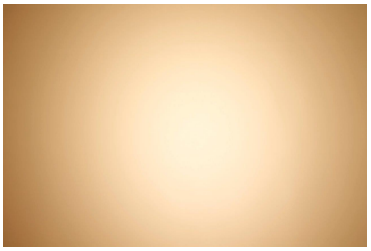


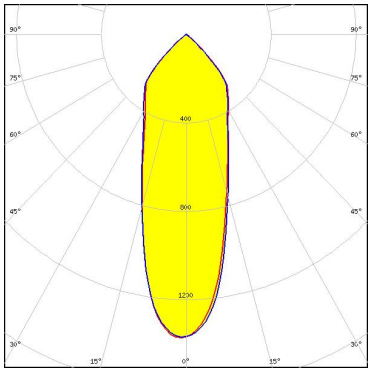


CREE

LED	CXA/B 25xx
FWHM	34.0°
Efficiency	93 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White

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

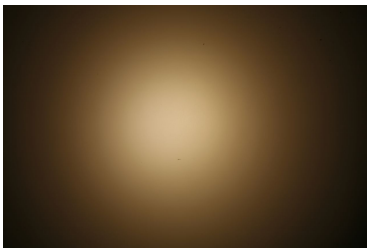


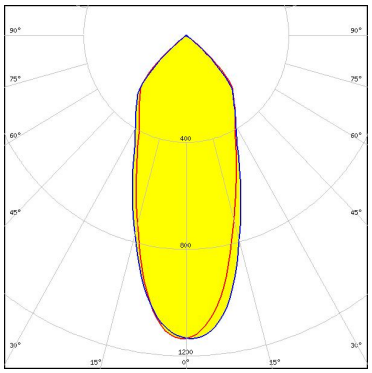


CREE

LED	CXA/B 25xx
FWHM	42.0°
Efficiency	92 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C14036_CLAMP_CXA25-30





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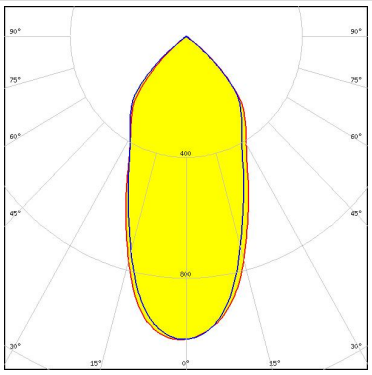
PHOTOMETRIC DATA (MEASURED):

CREE

LED	CXA/B 30xx
FWHM	48.0°
Efficiency	91 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C14036_CLAMP_CXA25-30

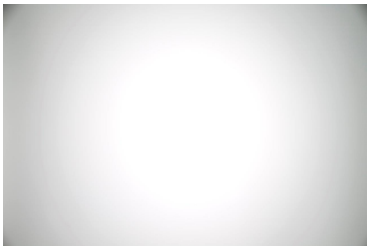


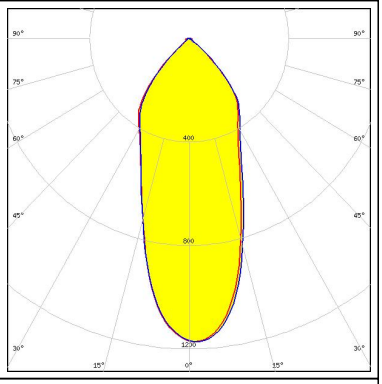


CREE

LED	CXA/B 30xx
FWHM	40.0°
Efficiency	93 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White

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

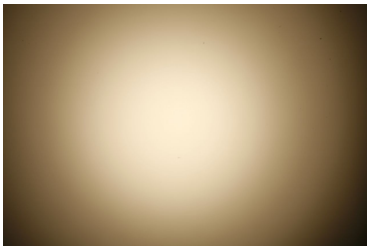


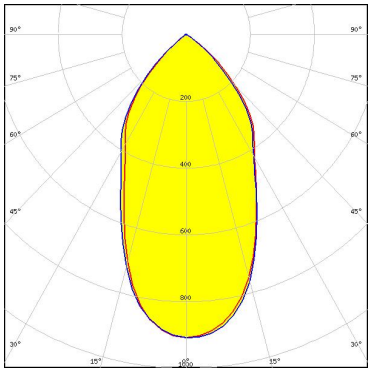


CREE

LED	CXA/B 3590
FWHM	54.0°
Efficiency	92 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour	White

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

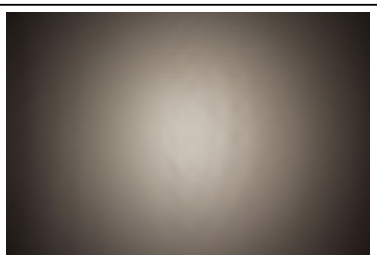




EVERLIGHT

LED	CHI3030 19W
FWHM	43.0°
Efficiency	87 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour	White

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



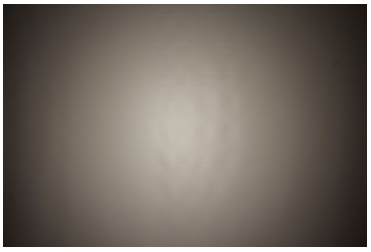
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PHOTOMETRIC DATA (MEASURED):

EVERLIGHT

LED	CHI3030 29W
FWHM	52.0°
Efficiency	87 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour	White

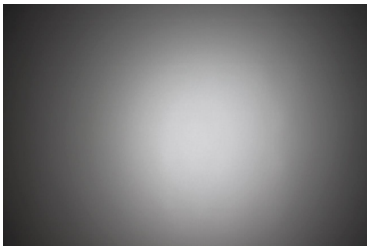
Required components:
- C13584_CLAMP-VERO29
- F13671_ANGE-RZ-LENS
- Bender Wirth: 468 Typ L3

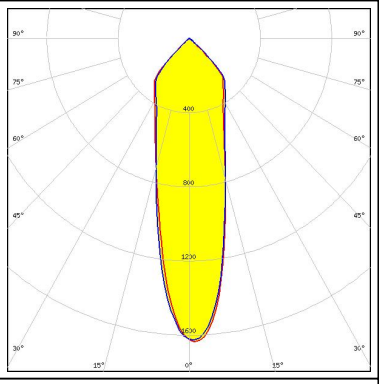


LG Innotek

LED	COB 10W/13W/17W/24W
FWHM	28.0°
Efficiency	92 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White

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

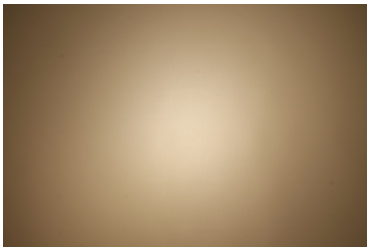


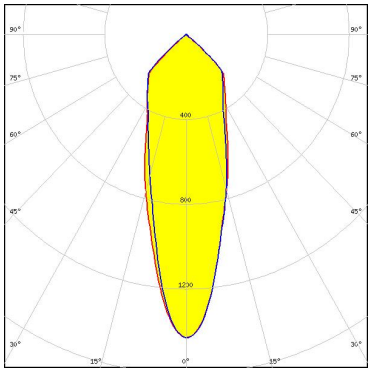


LUMILEDS

LED	LUXEON CoB 1202/1203
FWHM	32.0°
Efficiency	92 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White

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

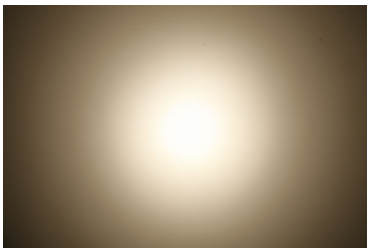


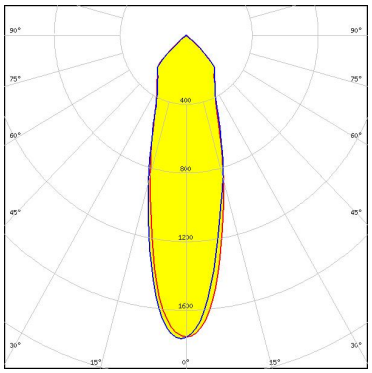


LUMILEDS

LED	LUXEON CoB 1204/1205
FWHM	30.0°
Efficiency	94 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour	White

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





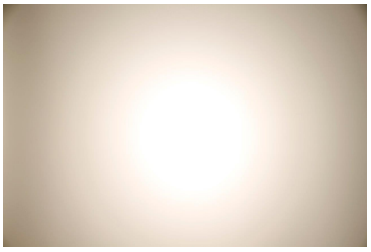
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

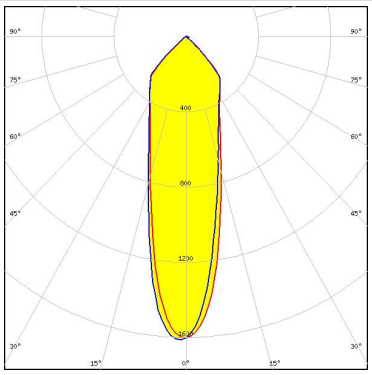
PHOTOMETRIC DATA (MEASURED):

LUMILEDS

LED	LUXEON CoB 1204/1205
FWHM	28.0°
Efficiency	92 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White

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



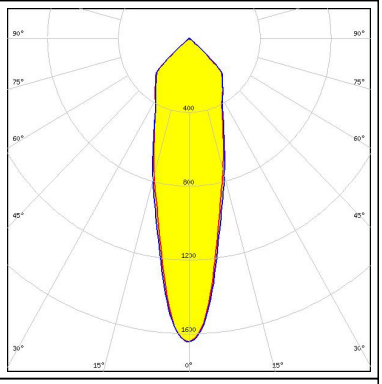


LUMILEDS

LED	LUXEON CoB 1204HD
FWHM	27.0°
Efficiency	93 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	White

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



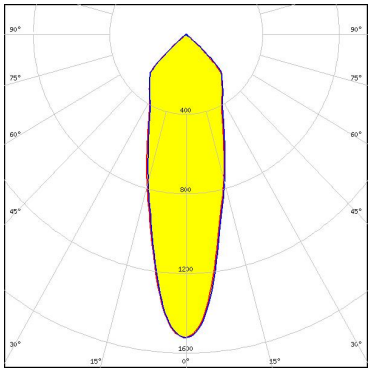


LUMILEDS

LED	LUXEON CoB 1205HD
FWHM	30.0°
Efficiency	93 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour	White

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



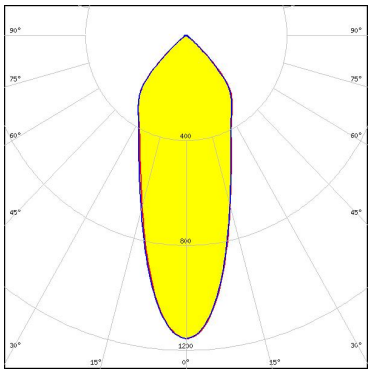


LUMILEDS

LED	LUXEON CoB 1208
FWHM	36.0°
Efficiency	86 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White

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





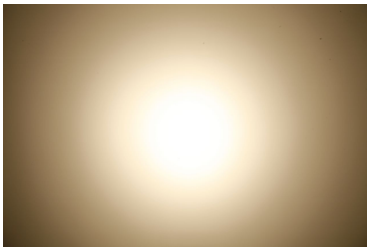
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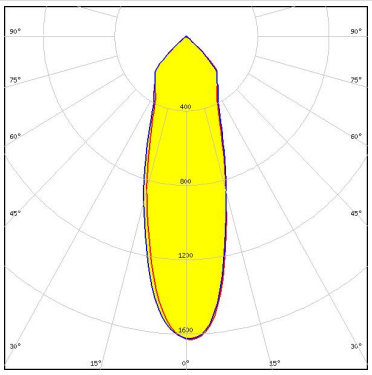
PHOTOMETRIC DATA (MEASURED):

LUMILEDS

LED	LUXEON CoB 1208
FWHM	32.0°
Efficiency	93 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White

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

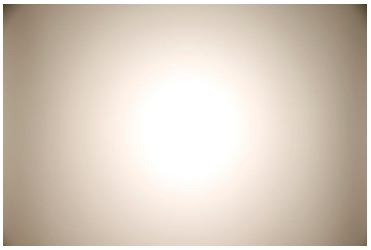


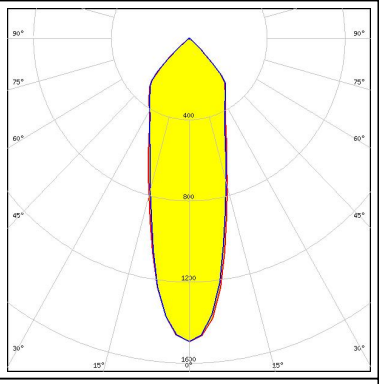


LUMILEDS

LED	LUXEON CoB 1208
FWHM	31.0°
Efficiency	93 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour	White

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

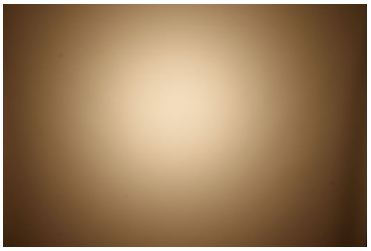


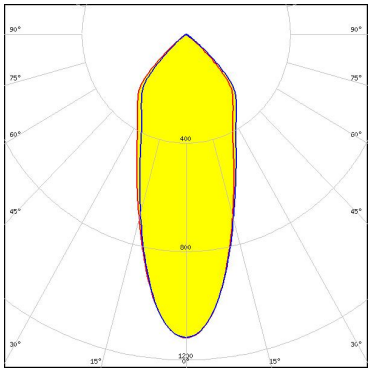


LUMILEDS

LED	LUXEON CoB 1208
FWHM	39.0°
Efficiency	87 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White

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



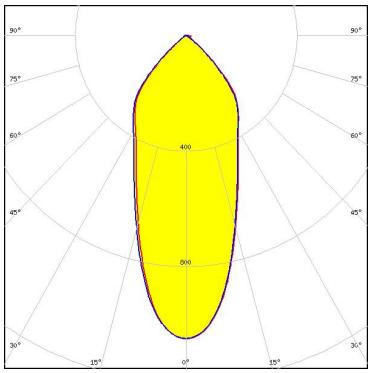


LUMILEDS

LED	LUXEON CoB 1211
FWHM	41.0°
Efficiency	87 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White

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





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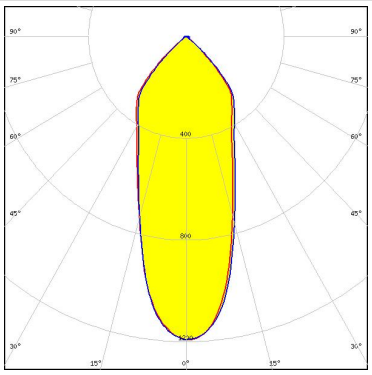
PHOTOMETRIC DATA (MEASURED):

LUMILEDS

LED	LUXEON CoB 1211
FWHM	39.0°
Efficiency	91 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White

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

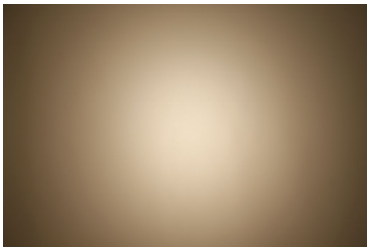


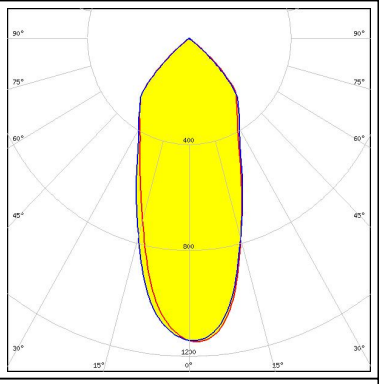


LUMILEDS

LED	LUXEON CoB 1211
FWHM	42.0°
Efficiency	92 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White

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



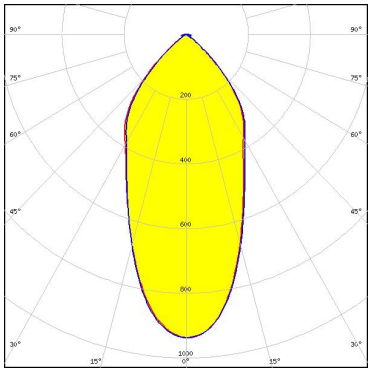


LUMILEDS

LED	LUXEON CoB 1216/1812
FWHM	48.0°
Efficiency	87 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour	White

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

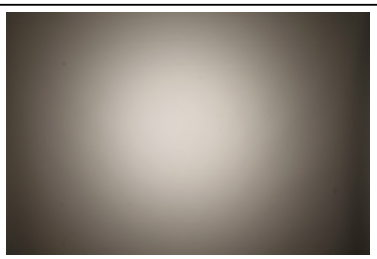


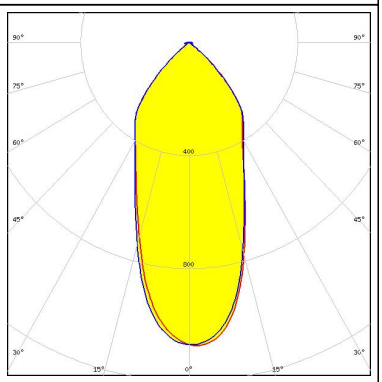


LUMILEDS

LED	LUXEON CoB 1216/1812
FWHM	44.0°
Efficiency	91 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White

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





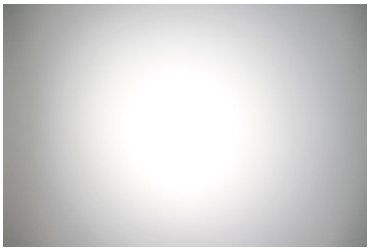
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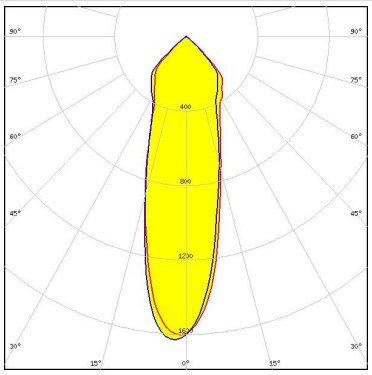
PHOTOMETRIC DATA (MEASURED):

LUMILEDS

LED	LUXEON K12
FWHM	29.0°
Efficiency	94 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White

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



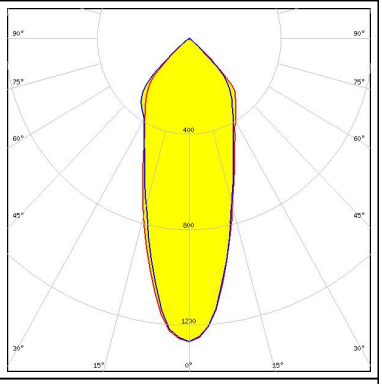


LUMILEDS

LED	LUXEON K12
FWHM	37.0°
Efficiency	89 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour	White

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



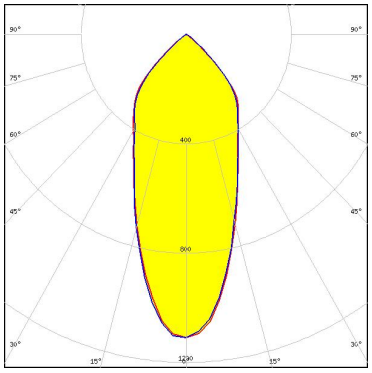


LUMILEDS

LED	LUXEON K16
FWHM	43.0°
Efficiency	89 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White

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

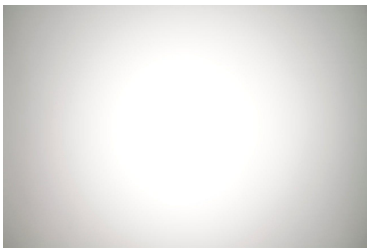


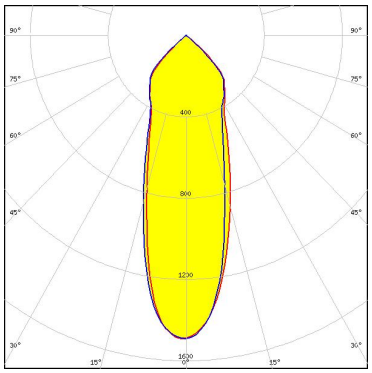


LUMILEDS

LED	LUXEON K16
FWHM	32.0°
Efficiency	94 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour	White

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





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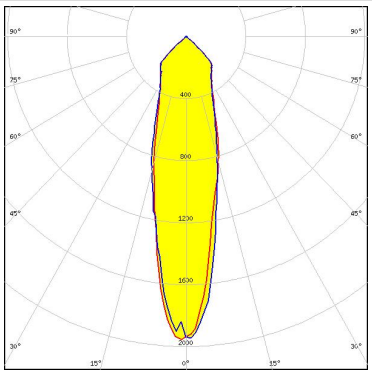
PHOTOMETRIC DATA (MEASURED):

LUMILEDS

LED	LUXEON S2000
FWHM	25.0°
Efficiency	92 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13395_CLAMP-S2000



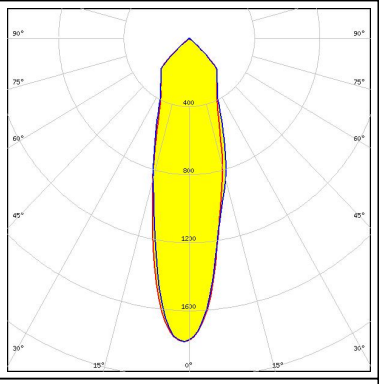


LUMILEDS

LED	LUXEON S3000
FWHM	28.0°
Efficiency	92 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13397_CLAMP-S3000



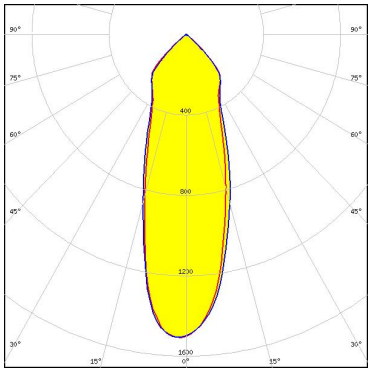


LUMILEDS

LED	LUXEON S5000
FWHM	33.0°
Efficiency	92 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13399_CLAMP-S5000



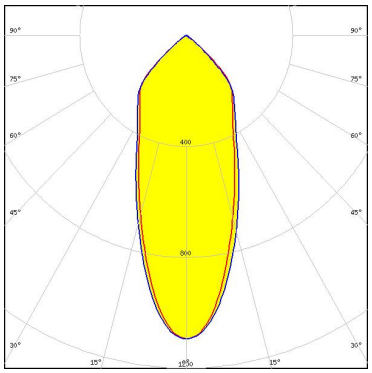


LUMINUS

LED	CDM-14 (Dim-To-Warm)
FWHM	40.0°
Efficiency	88 %
Peak intensity	1.1 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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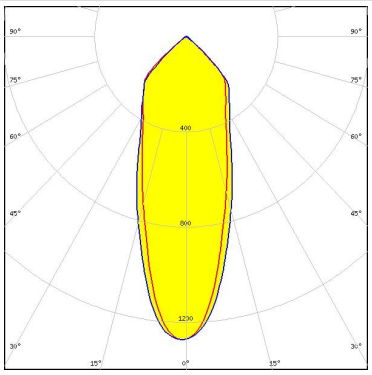
PHOTOMETRIC DATA (MEASURED):

LUMINUS

LED	CDM-14 (Dim-To-Warm)
FWHM	36.0°
Efficiency	92 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour	White

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



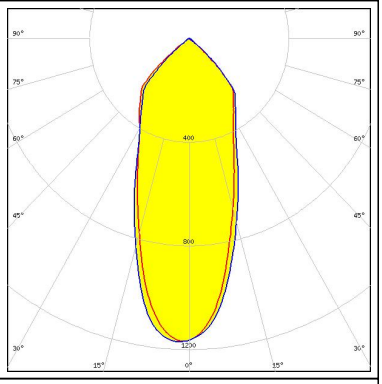


LUMINUS

LED	CDM-18 (Dim-To-Warm)
FWHM	40.0°
Efficiency	93 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White

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



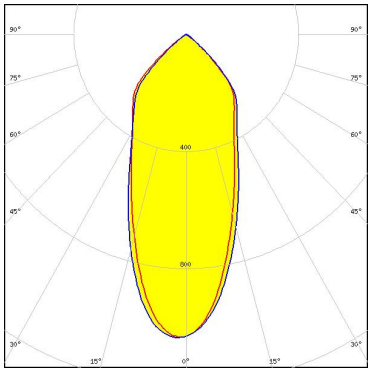


LUMINUS

LED	CDM-18 (Dim-To-Warm)
FWHM	43.0°
Efficiency	89 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour	White

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

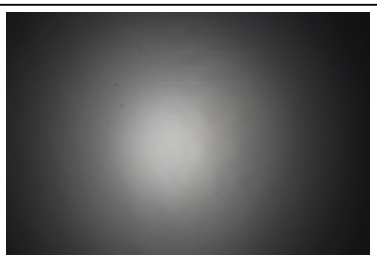


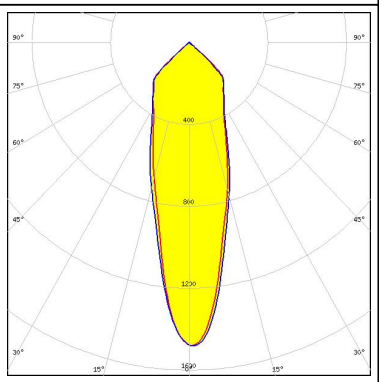


LUMINUS

LED	CDM-9 (Dim-To-Warm)
FWHM	30.0°
Efficiency	91 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour	White

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





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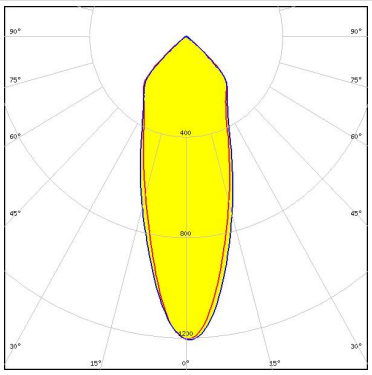
PHOTOMETRIC DATA (MEASURED):

LUMINUS

LED	CDM-9 (Dim-To-Warm)
FWHM	36.0°
Efficiency	87 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White

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



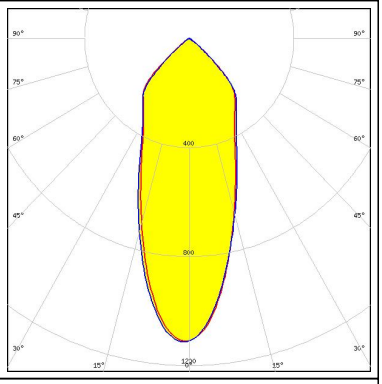


LUMINUS

LED	CTM-14 (Tunable White)
FWHM	39.0°
Efficiency	86 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White

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



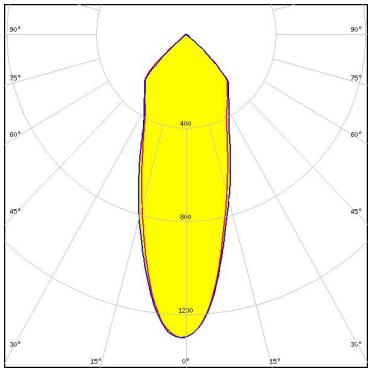


LUMINUS

LED	CTM-14 (Tunable White)
FWHM	35.0°
Efficiency	91 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour	White

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

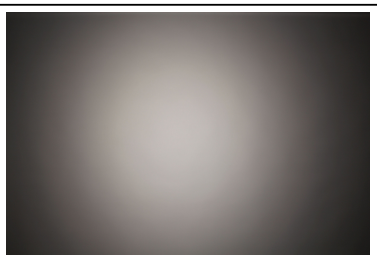


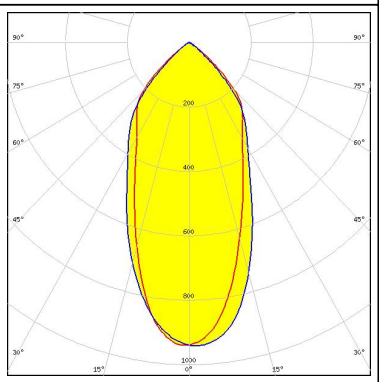


LUMINUS

LED	CTM-22 (Tunable White)
FWHM	47.0°
Efficiency	86 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour	White

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





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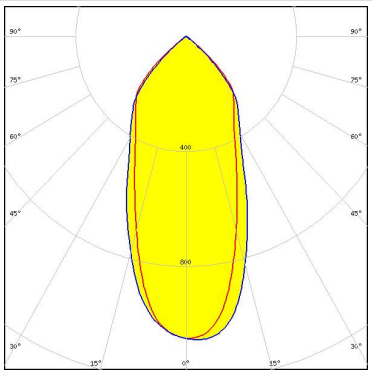
PHOTOMETRIC DATA (MEASURED):

LUMINUS

LED	CTM-22 (Tunable White)
FWHM	44.0°
Efficiency	90 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White

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

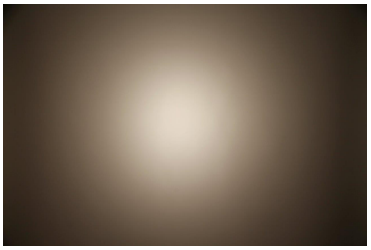


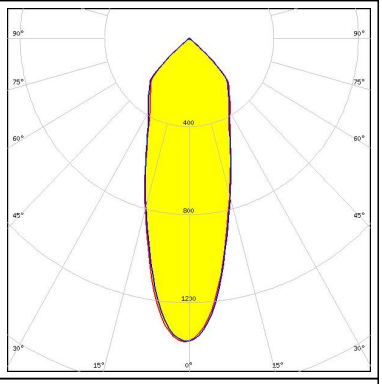


LUMINUS

LED	CxM-14 (19x19)
FWHM	34.0°
Efficiency	93 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White

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



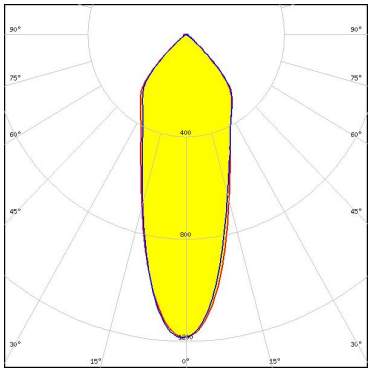


NICHIA

LED	COB J-Type
FWHM	36.0°
Efficiency	87 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White

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

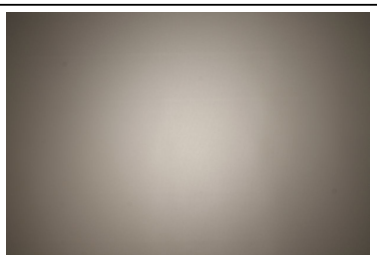


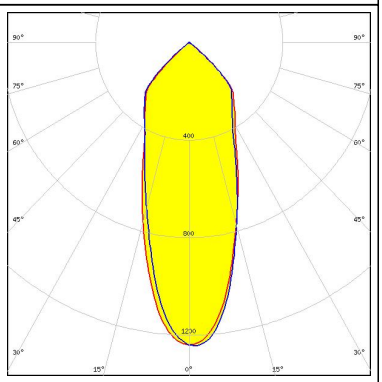


NICHIA

LED	COB J-Type
FWHM	38.0°
Efficiency	92 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White

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





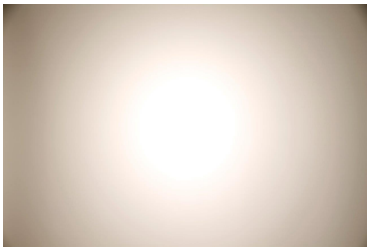
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

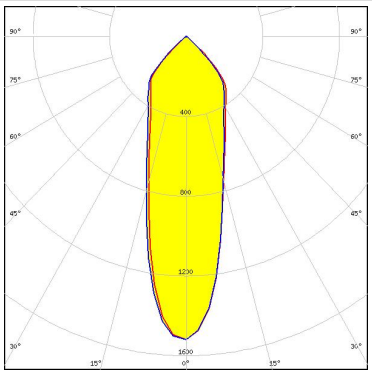
PHOTOMETRIC DATA (MEASURED):

NICHIA

LED	COB J-Type
FWHM	31.0°
Efficiency	94 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour	White

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



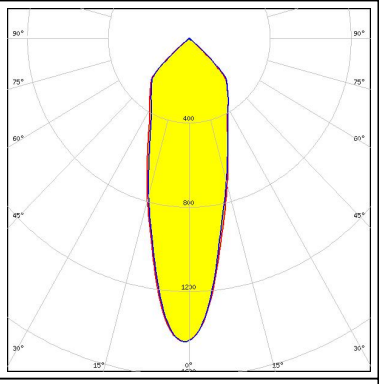


NICHIA

LED	COB L-Type (LES 11)
FWHM	32.0°
Efficiency	91 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White

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

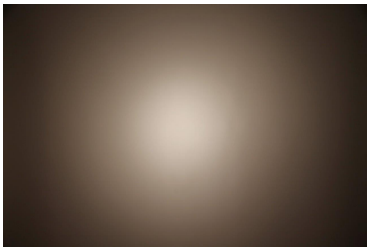


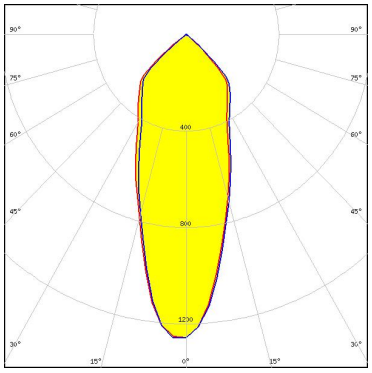


NICHIA

LED	COB L-Type (LES 11)
FWHM	37.0°
Efficiency	94 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
Molex: 180580-0005

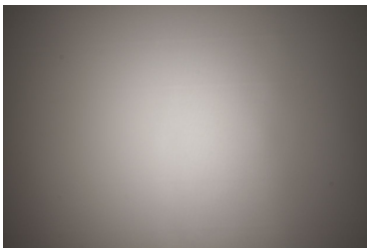


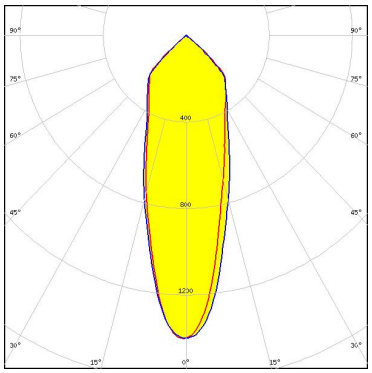


NICHIA

LED	COB L-Type (LES 11)
FWHM	32.0°
Efficiency	92 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White

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





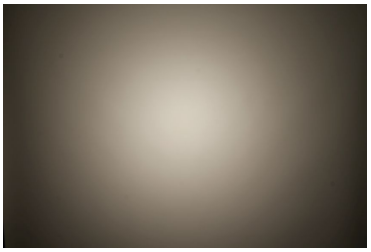
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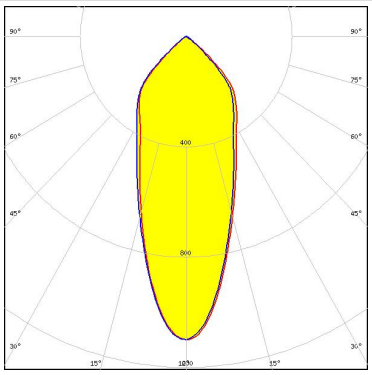
PHOTOMETRIC DATA (MEASURED):

NICHIA

LED	COB L-Type (LES 11)
FWHM	39.0°
Efficiency	86 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White

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



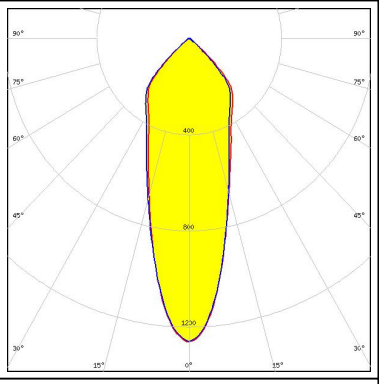


NICHIA

LED	COB L-Type (LES 11)
FWHM	32.0°
Efficiency	86 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour	White

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

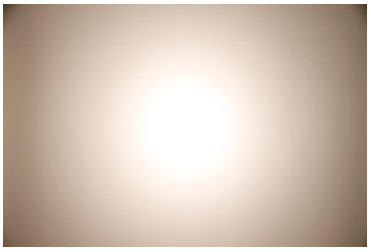


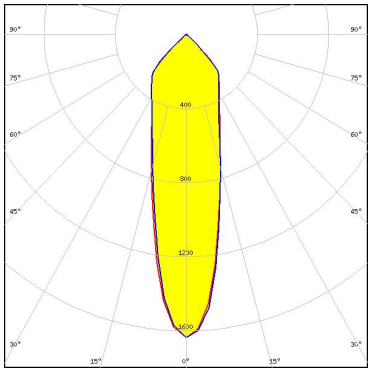


NICHIA

LED	COB L-Type (LES 11)
FWHM	27.0°
Efficiency	91 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White

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



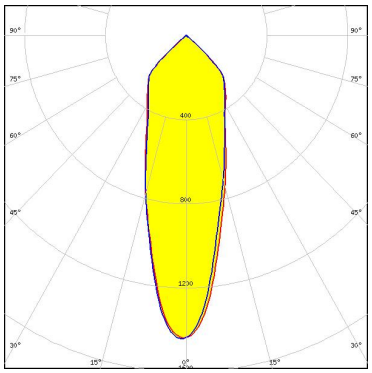


NICHIA

LED	COB L-Type (LES 11)
FWHM	31.0°
Efficiency	91 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White

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





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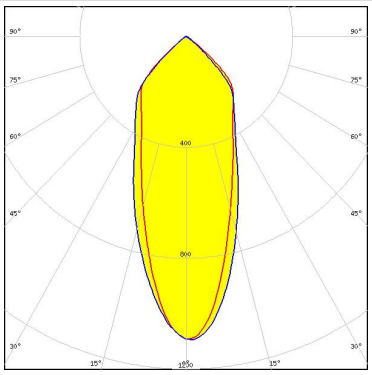
PHOTOMETRIC DATA (MEASURED):

NICHIA

LED	NVCWJ024Z-V1MT: COB J-Type Tunable White
FWHM	42.0°
Efficiency	87 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White

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



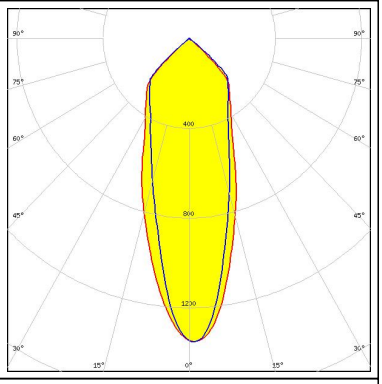


NICHIA

LED	NVCWJ024Z-V1MT: COB J-Type Tunable White
FWHM	38.0°
Efficiency	92 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White

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



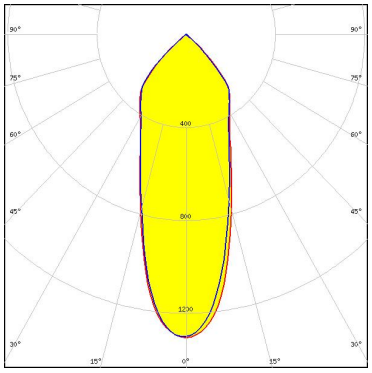


OSRAM

LED	PrevaLED Core AC (LEP-2000)
FWHM	36.0°
Efficiency	93 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour	White

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

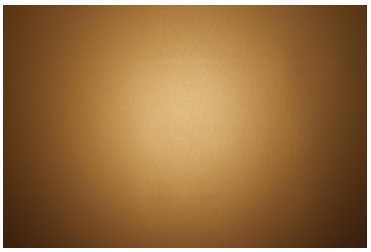


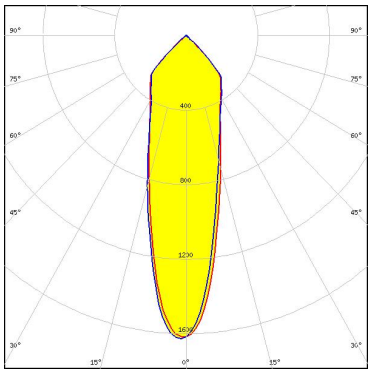


OSRAM

LED	PrevaLED Core AC (LEP-800)
FWHM	28.0°
Efficiency	93 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White

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





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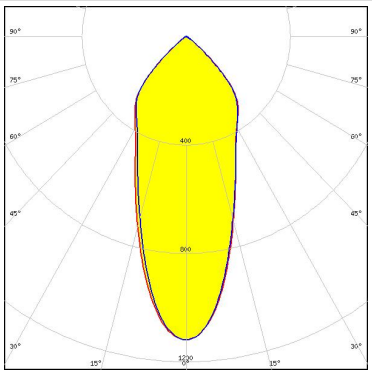
PHOTOMETRIC DATA (MEASURED):

OSRAM

LED	PrevaLED Core G7 L15 H1
FWHM	40.0°
Efficiency	90 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White

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



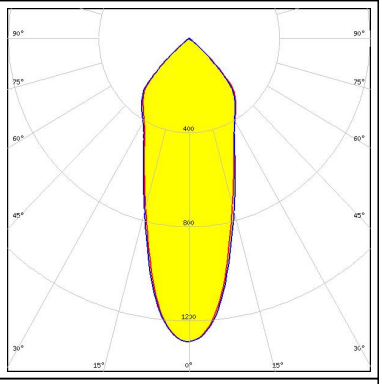


OSRAM

LED	PrevaLED Core G7 L15 H1
FWHM	36.0°
Efficiency	94 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C16685_CLAMP-PRV-A

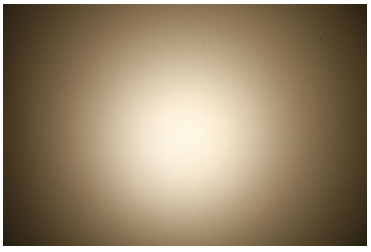


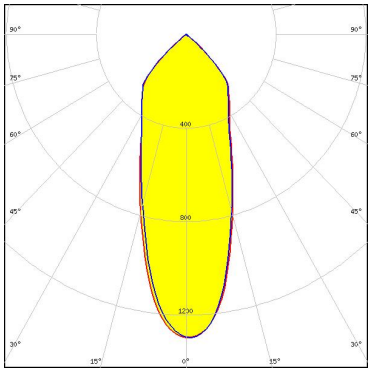


OSRAM

LED	PrevaLED Core Z3 LES19
FWHM	37.0°
Efficiency	93 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour	White

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



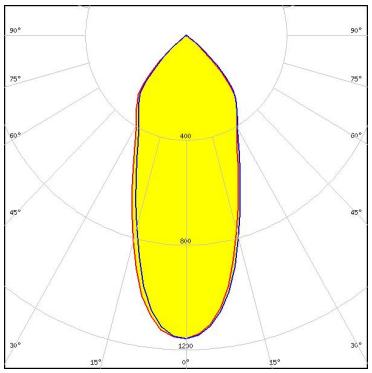


OSRAM

LED	PrevaLED Core Z3 LES23
FWHM	43.0°
Efficiency	94 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White

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





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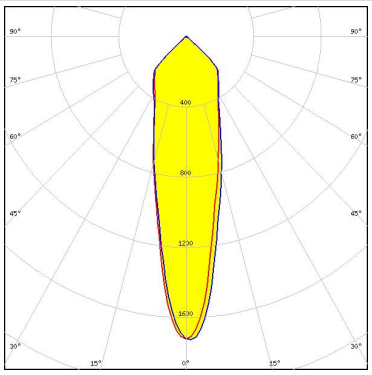
PHOTOMETRIC DATA (MEASURED):

OSRAM

LED	PrevaLED Core Z3 LES9
FWHM	26.0°
Efficiency	93 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	White

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

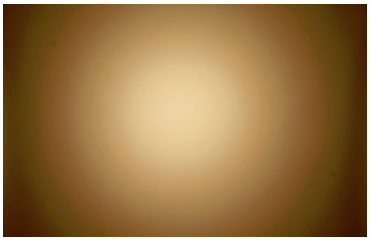


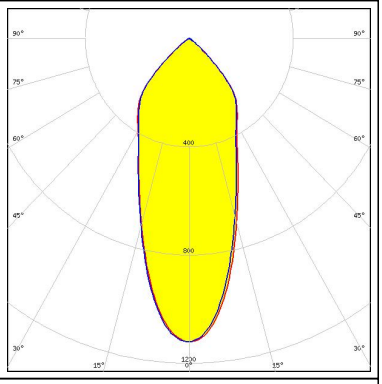


OSRAM

LED	PrevaLED Core Z4 LES19
FWHM	40.0°
Efficiency	88 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White

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



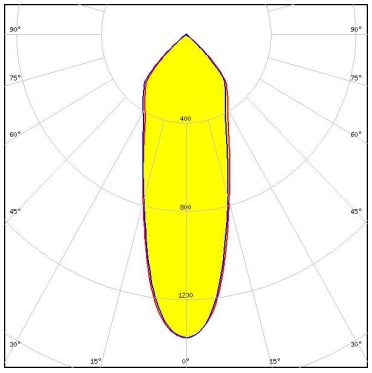


OSRAM

LED	PrevaLED Core Z4 LES19
FWHM	34.0°
Efficiency	93 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White

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

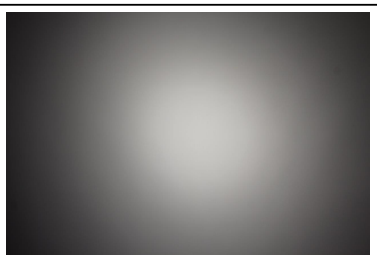


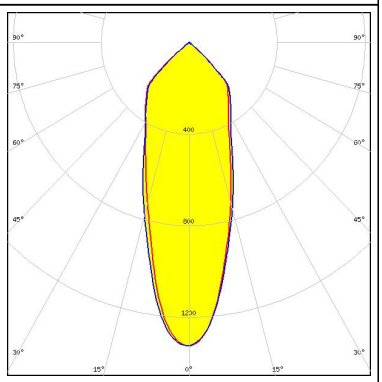


OSRAM
Opto Semiconductors

LED	Soleriq S13
FWHM	34.0°
Efficiency	92 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour	White

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





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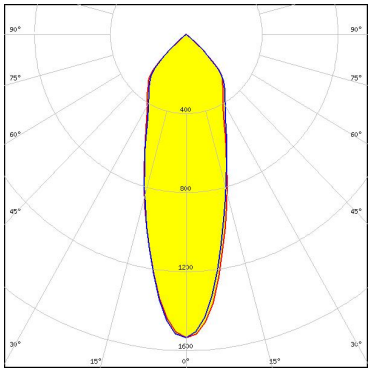
PHOTOMETRIC DATA (MEASURED):

OSRAM
Opto Semiconductors

LED	Soleriq S13
FWHM	34.0°
Efficiency	94 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour	White

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



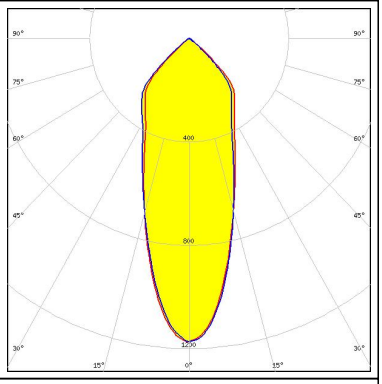


OSRAM
Opto Semiconductors

LED	Soleriq S13 19x19
FWHM	37.0°
Efficiency	87 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White

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



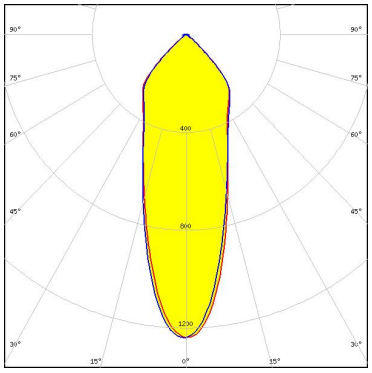


OSRAM
Opto Semiconductors

LED	Soleriq S13 19x19
FWHM	34.0°
Efficiency	87 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White

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

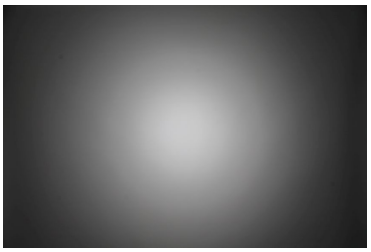


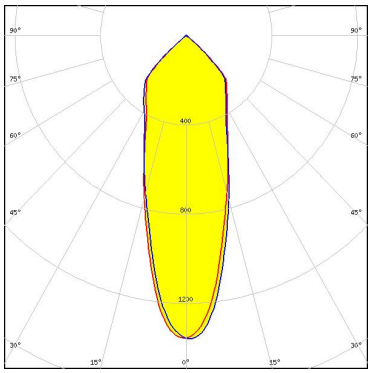


OSRAM
Opto Semiconductors

LED	Soleriq S13 19x19
FWHM	34.0°
Efficiency	93 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White

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





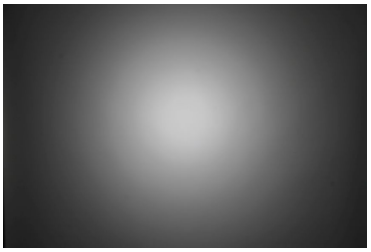
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

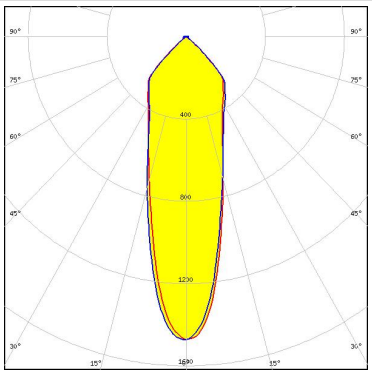
PHOTOMETRIC DATA (MEASURED):

OSRAM
Opto Semiconductors

LED	Soleriq S13 19x19
FWHM	30.0°
Efficiency	91 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour	White

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

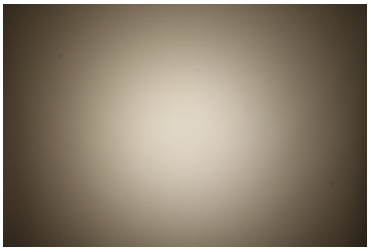


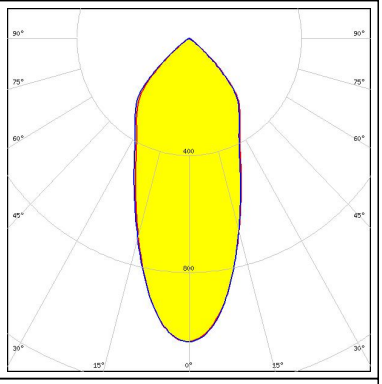


OSRAM
Opto Semiconductors

LED	Soleriq S19
FWHM	43.0°
Efficiency	87 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour	White

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



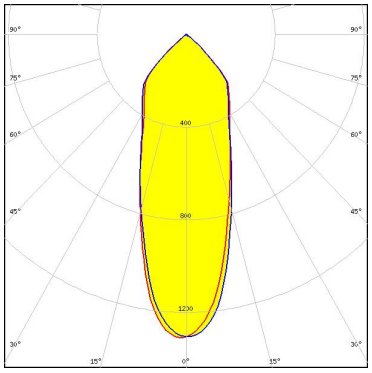


OSRAM
Opto Semiconductors

LED	Soleriq S19
FWHM	37.0°
Efficiency	93 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour	White

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



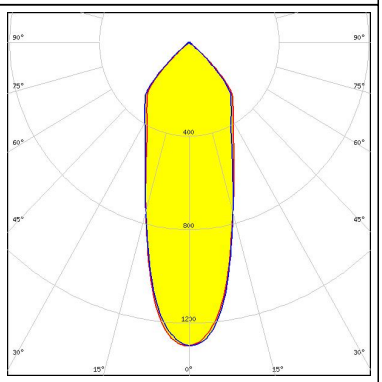


OSRAM
Opto Semiconductors

LED	Soleriq S19
FWHM	35.0°
Efficiency	91 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour	White

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





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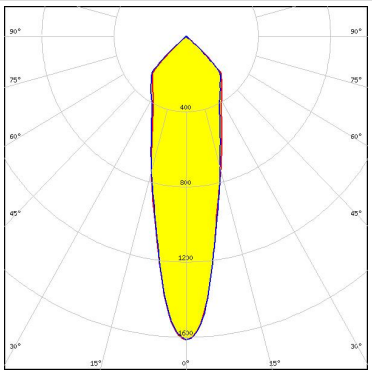
PHOTOMETRIC DATA (MEASURED):

PHILIPS

LED	Fortimo SLM L09 + SLM holder
FWHM	27.0°
Efficiency	92 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White

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

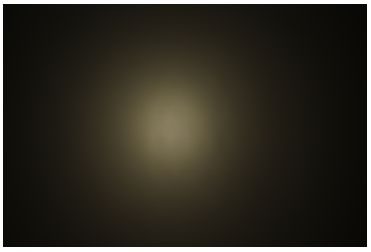


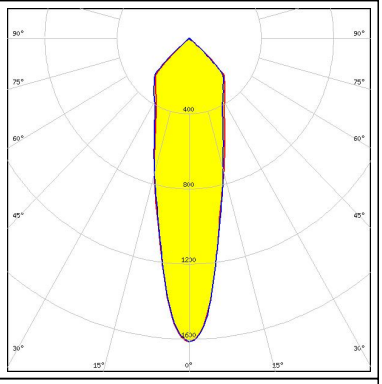


PHILIPS

LED	Fortimo SLM L09 + SLM holder
FWHM	27.0°
Efficiency	92 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White

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



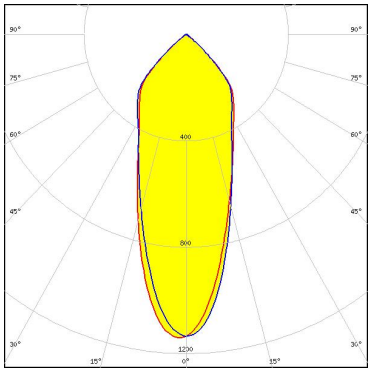


PHILIPS

LED	Fortimo SLM L13 + SLM holder
FWHM	38.0°
Efficiency	87 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White

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



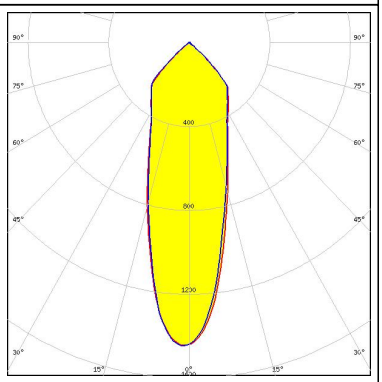


PHILIPS

LED	Fortimo SLM L13 + SLM holder
FWHM	32.0°
Efficiency	91 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour	White

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





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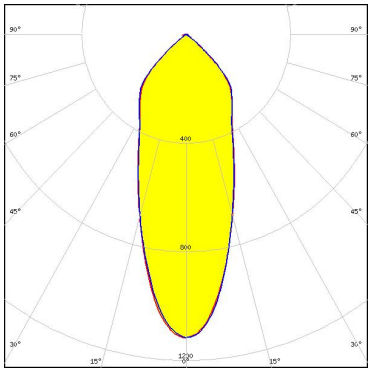
PHOTOMETRIC DATA (MEASURED):

PHILIPS

LED	Fortimo SLM L13 CoB
FWHM	38.0°
Efficiency	87 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White

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



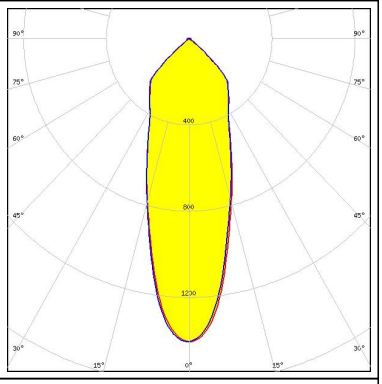


PHILIPS

LED	Fortimo SLM L13 CoB
FWHM	34.0°
Efficiency	94 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White

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



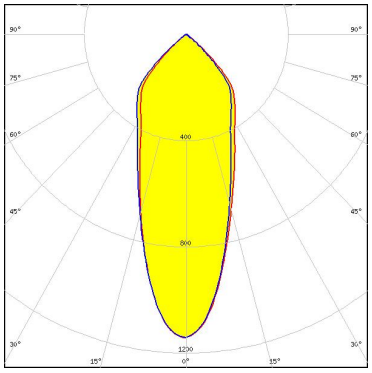


PHILIPS

LED	Fortimo SLM L15 + SLM holder
FWHM	37.0°
Efficiency	87 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White

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



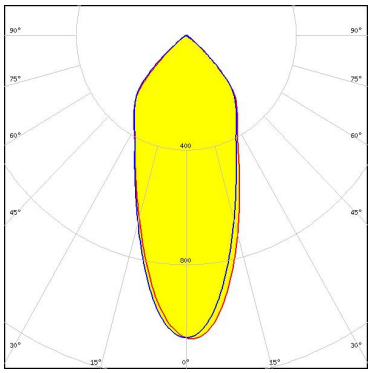


PHILIPS

LED	Fortimo SLM L15 + SLM holder
FWHM	41.0°
Efficiency	86 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour	White

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





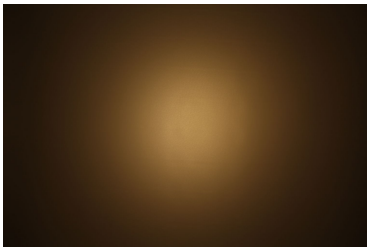
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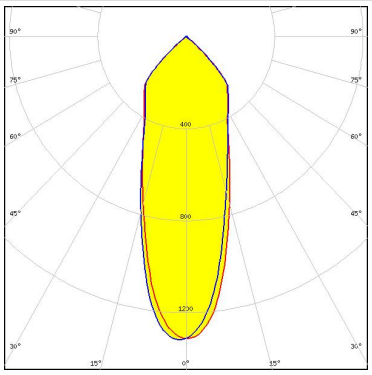
PHOTOMETRIC DATA (MEASURED):

PHILIPS

LED	Fortimo SLM L15 + SLM holder
FWHM	35.0°
Efficiency	90 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour	White

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



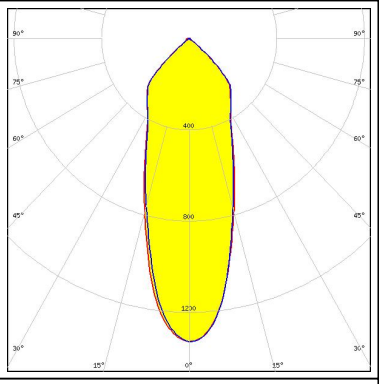


PHILIPS

LED	Fortimo SLM L15 CoB
FWHM	36.0°
Efficiency	93 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour	White

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



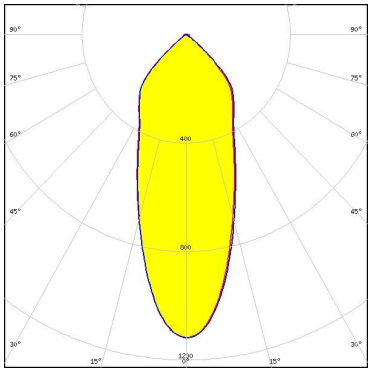


PHILIPS

LED	Fortimo SLM L15 CoB
FWHM	39.0°
Efficiency	88 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White

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

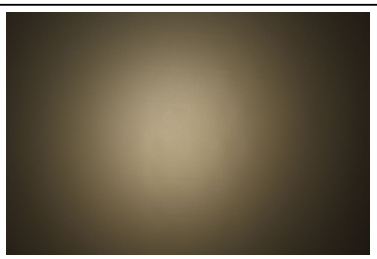


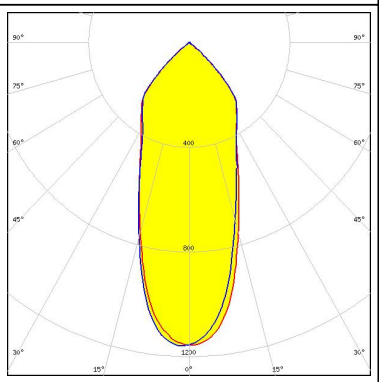


PHILIPS

LED	Fortimo SLM L19 + SLM holder
FWHM	40.0°
Efficiency	89 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White

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





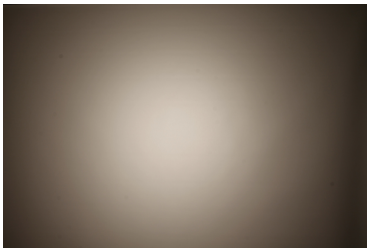
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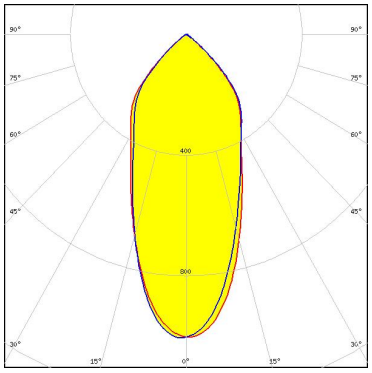
PHOTOMETRIC DATA (MEASURED):

PHILIPS

LED	Fortimo SLM L19 + SLM holder
FWHM	44.0°
Efficiency	87 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour	White

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



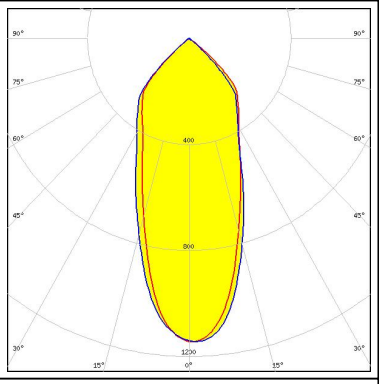


SAMSUNG

LED	LC026B / 033B / 040B
FWHM	41.0°
Efficiency	92 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White

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

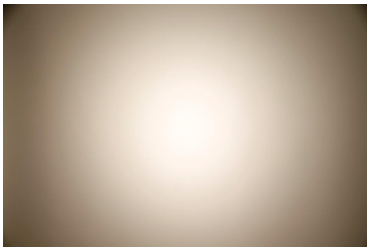


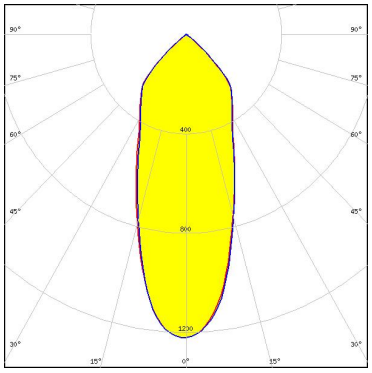


SAMSUNG

LED	LC026B / 033B / 040B
FWHM	39.0°
Efficiency	93 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White

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



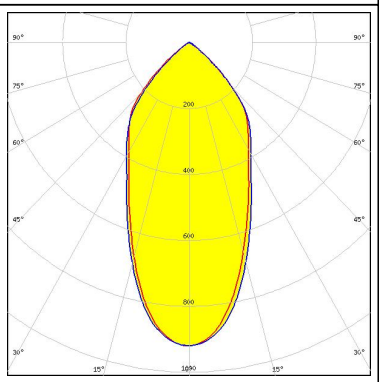


SAMSUNG

LED	LC035T (Tunable white)
FWHM	50.0°
Efficiency	88 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour	Tunable White

Required components:
- C13584_CLAMP-VERO29
- F13671_ANGE-RZ-LENS
- Bender Wirth: 502 Typ L3





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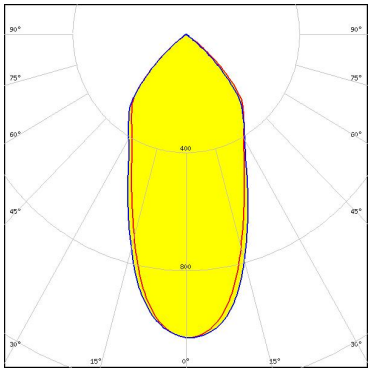
PHOTOMETRIC DATA (MEASURED):

SAMSUNG

LED	LC035T (Tunable white)
FWHM	47.0°
Efficiency	93 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour	Tunable White

Required components:
C13584_CLAMP-VERO29
Bender Wirth: 502 Typ L3



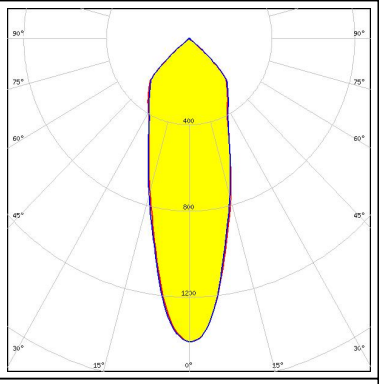


SAMSUNG

LED	LC040C
FWHM	32.0°
Efficiency	91 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White

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



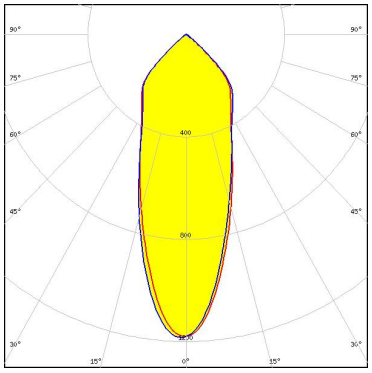


SAMSUNG

LED	LC040C
FWHM	37.0°
Efficiency	88 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White

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



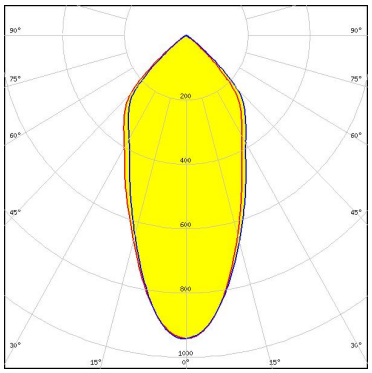


SEOUL SEMICONDUCTOR

LED	AC Zhaga COB
FWHM	47.0°
Efficiency	88 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour	White

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





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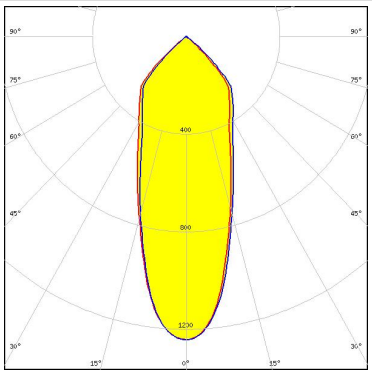
PHOTOMETRIC DATA (MEASURED):

SEOUL SEMICONDUCTOR

LED	MJT COB LES 14.5
FWHM	38.0°
Efficiency	92 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White

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



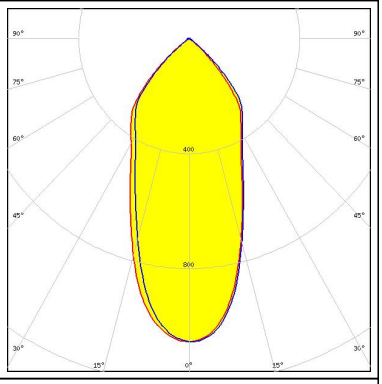


SEOUL SEMICONDUCTOR

LED	MJT COB LES 22
FWHM	44.0°
Efficiency	90 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White

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



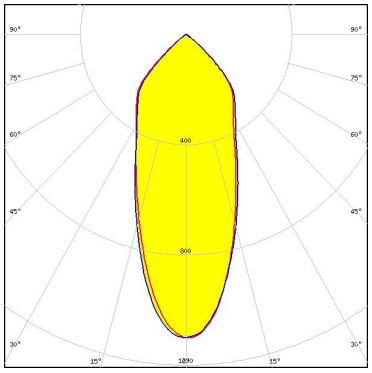


SHARP

LED	Mega Zenigata (GW6DME)
FWHM	40.0°
Efficiency	88 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White

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

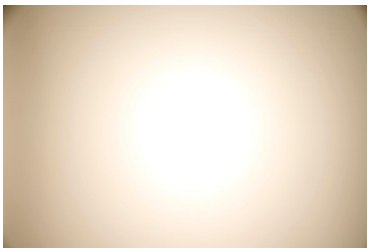


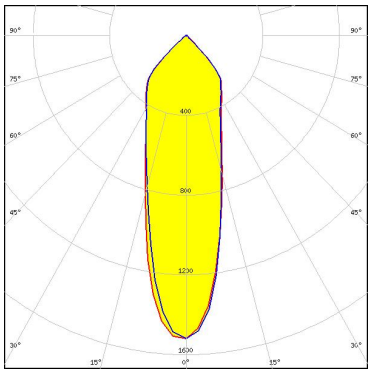


SHARP

LED	Mega Zenigata (GW6DME)
FWHM	30.0°
Efficiency	93 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour	White

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





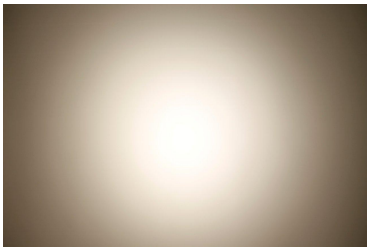
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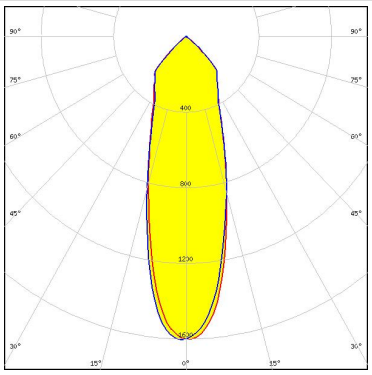
PHOTOMETRIC DATA (MEASURED):

SHARP

LED	Mega Zenigata (GW6DME)
FWHM	32.0°
Efficiency	92 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White

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

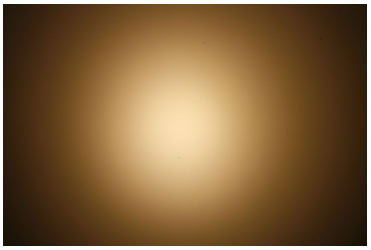


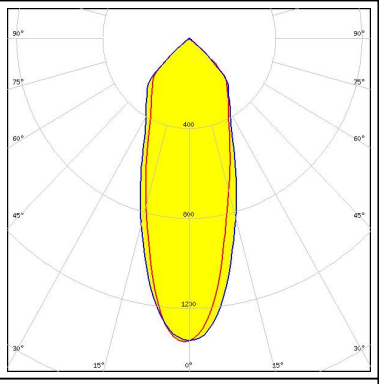


LIGHTING SOLUTIONS

LED	WU-M-461
FWHM	35.0°
Efficiency	93 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White

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

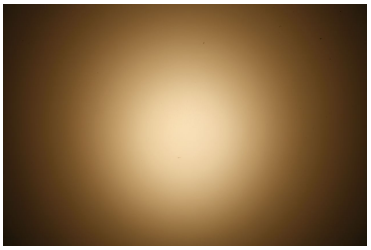


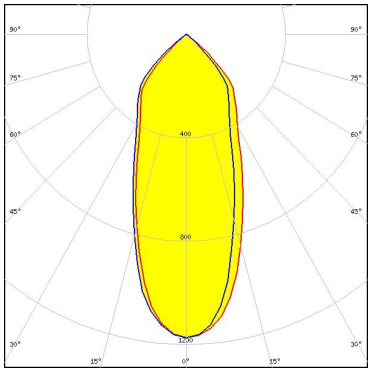


LIGHTING SOLUTIONS

LED	WU-M-462
FWHM	42.0°
Efficiency	93 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White

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

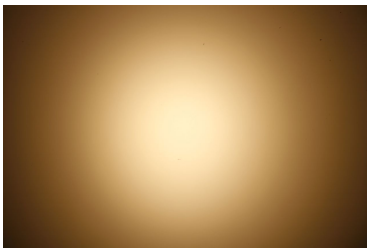


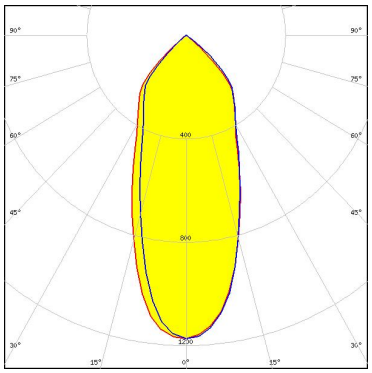


LIGHTING SOLUTIONS

LED	WU-M-464
FWHM	42.0°
Efficiency	93 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White

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





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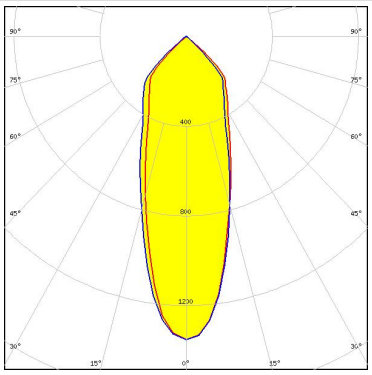
PHOTOMETRIC DATA (MEASURED):

LIGHTING SOLUTIONS

LED	WU-M-484
FWHM	36.0°
Efficiency	93 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White

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



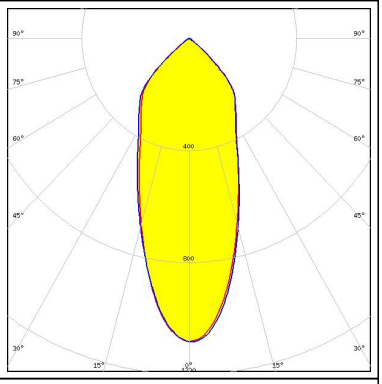


LIGHTING SOLUTIONS

LED	WU-M-484
FWHM	40.0°
Efficiency	86 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White

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



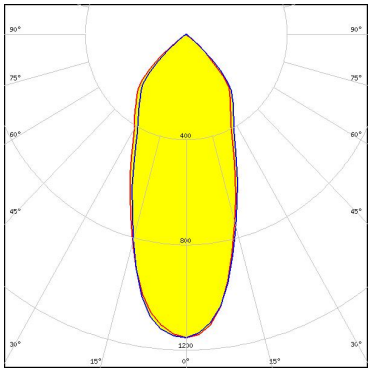


LIGHTING SOLUTIONS

LED	WU-M-485
FWHM	43.0°
Efficiency	93 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White

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



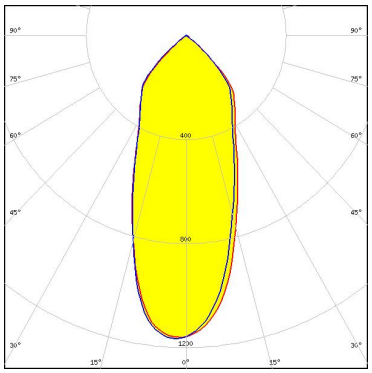


LIGHTING SOLUTIONS

LED	WU-M-486
FWHM	42.0°
Efficiency	92 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White

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





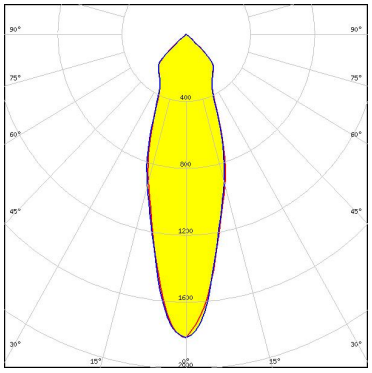
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PHOTOMETRIC DATA (SIMULATED):

bridgelux

LED	V10 Gen7
FWHM	31.0°
Efficiency	93 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour	White

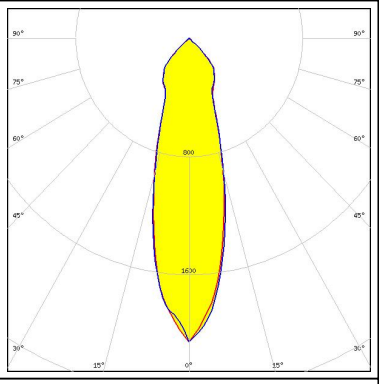
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 486 Typ L1



bridgelux

LED	V13 Gen7
FWHM	28.0°
Efficiency	93 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour	White

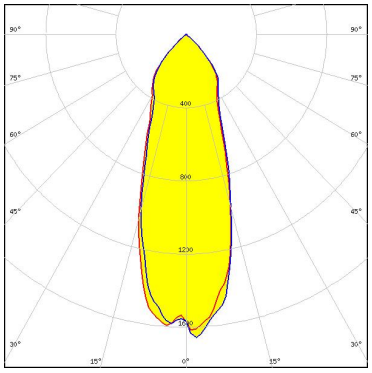
Required components:
IDEAL: 50-2103CT + 50-2100AN



bridgelux

LED	V22 Gen7
FWHM	34.0°
Efficiency	94 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	White

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



LUMINUS

LED	CxM-14 (19x19)
FWHM	37.0°
Efficiency	91 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour	White

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

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PHOTOMETRIC DATA (SIMULATED):

LUMINUS

LED	CxM-9 (13.5x13.5)
FWHM	31.0°
Efficiency	92 %
Peak intensity	1.4 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	37.0°
Efficiency	92 %
Peak intensity	2.3 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	31.0°
Efficiency	92 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White

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

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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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