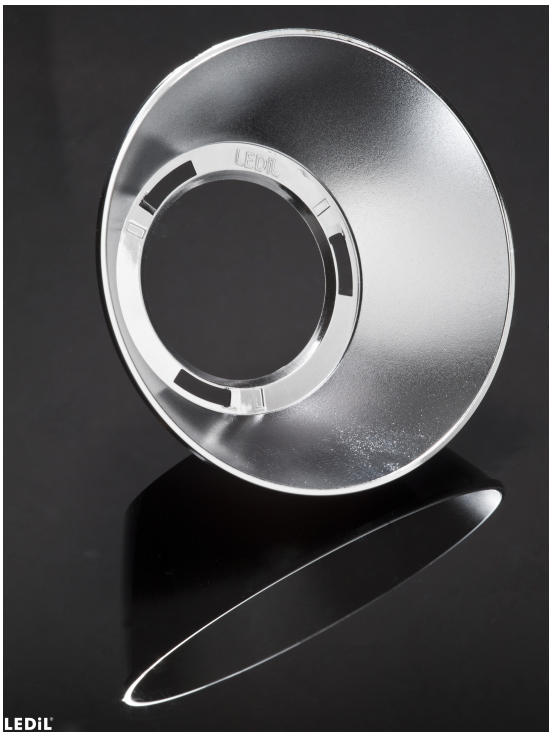
ANGELINA-S

~20° spot beam



SPECIFICATION:

Dimensions	Ø 82.0
Height	31 mm
Fastening	socket
ROHS compliant	yes

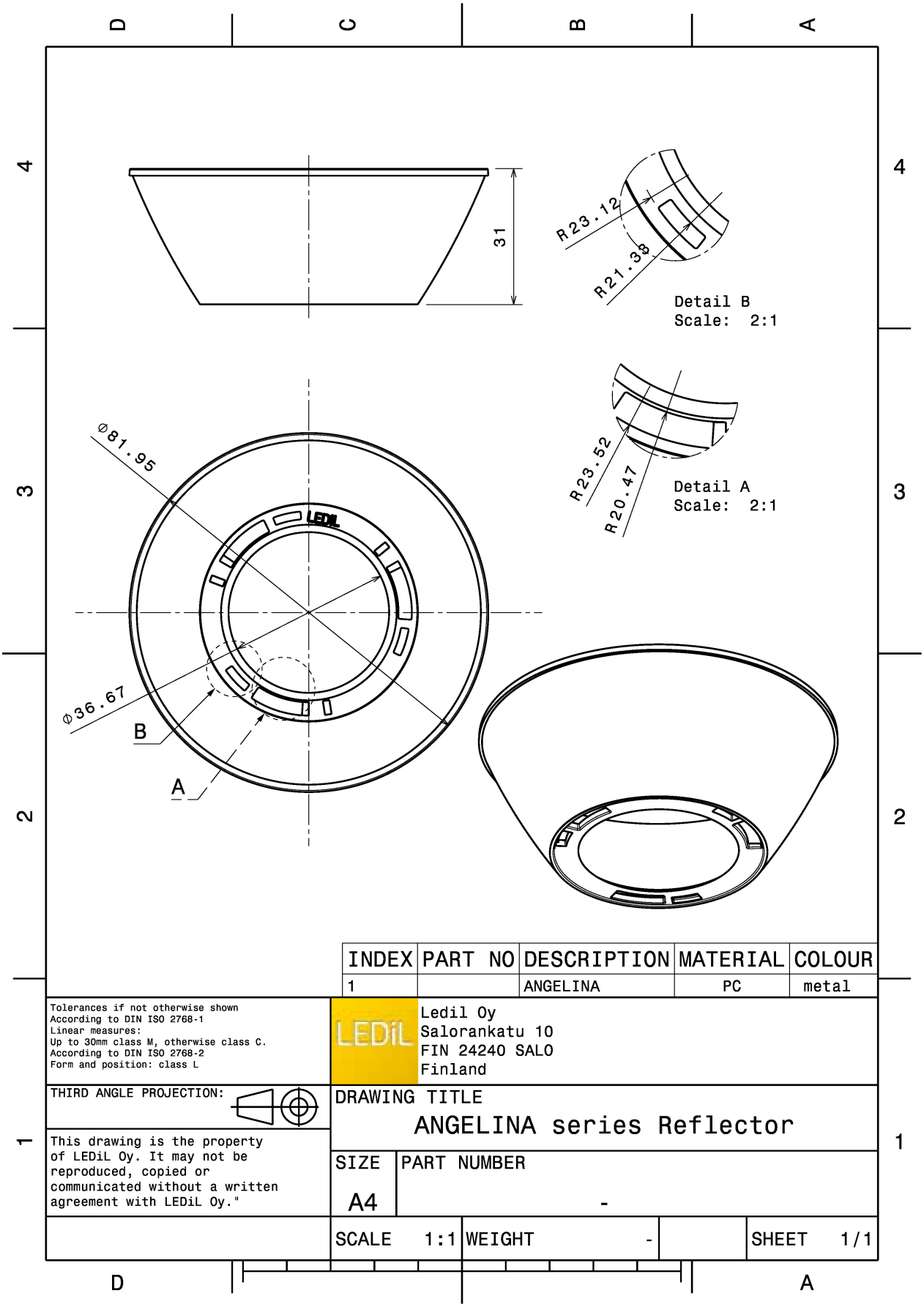
MATERIALS:

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

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
F13325_ANGELINA-S » Box size: 480 x 280 x 300 mm	900	120	60	12.7

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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

THIRD ANGLE PROJECTION:

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Ledil Oy
Salorankatu 10
FIN 24240 SALO
Finland

DRAWING TITLE
ANGELINA series Reflector

SIZE A4

PART NUMBER -

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

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

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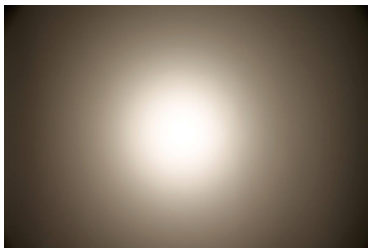
OPTICAL RESULTS (MEASURED):

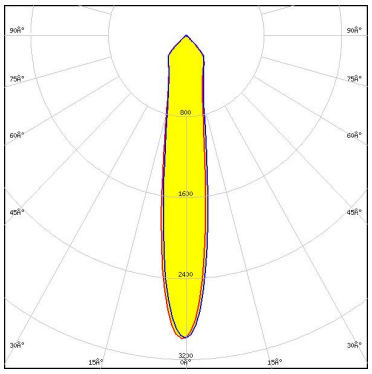
bridgelux

LED	BXRA ES Rectangle
FWHM / FWTM	17.0° / 75.0°
Efficiency	94 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

IDEAL: 50-2100BL + 50-2100AN





Light distribution files

bridgelux

LED	V10 Gen7
FWHM / FWTM	22.0° / 92.0°
Efficiency	88 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White

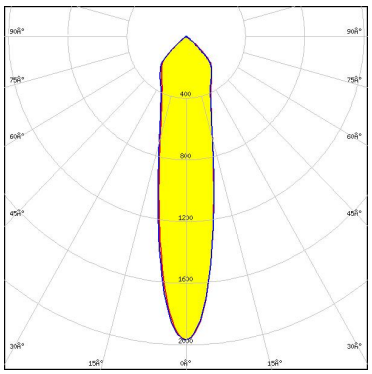
Required components:

C13658_CLAMP-VERO13-18

F13671_ANGE-RZ-LENS

Bender Wirth: 434 Typ L1





Light distribution files

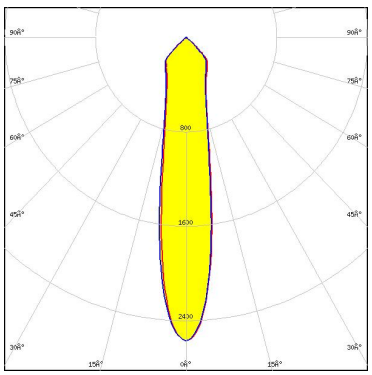
bridgelux

LED	V13 Gen7
FWHM / FWTM	20.0° / 87.0°
Efficiency	94 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

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





Light distribution files

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OPTICAL RESULTS (MEASURED):

bridgelux

LED	V15 Gen6
FWHM / FWTM	23.0° / 94.0°
Efficiency	88 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13658_CLAMP-VERO13-18

Bender Wirth: 456 Typ L2



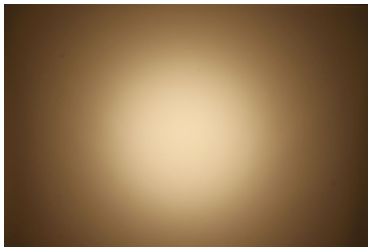
Light distribution files

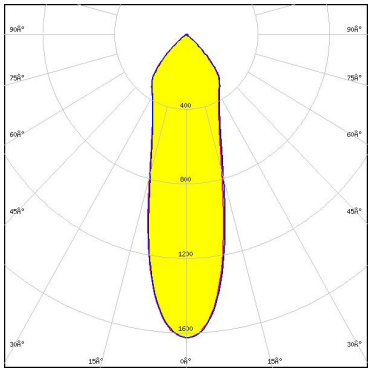
bridgelux

LED	V22 Gen6
FWHM / FWTM	29.0° / 91.0°
Efficiency	92 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

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





Light distribution files

bridgelux

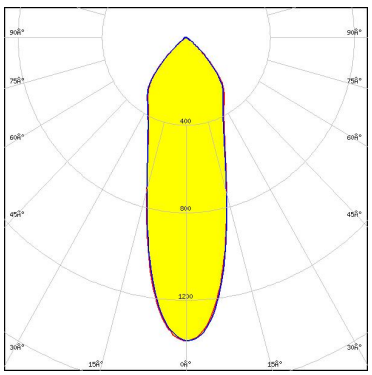
LED	V22 Gen6
FWHM / FWTM	32.0° / 93.0°
Efficiency	88 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

F13671_ANGE-RZ-LENS

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





Light distribution files

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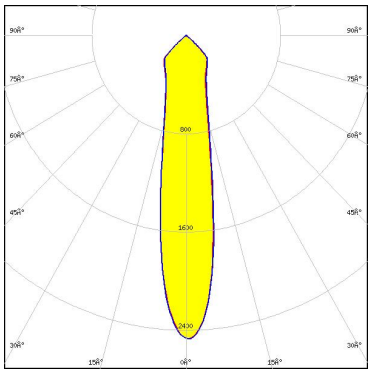
OPTICAL RESULTS (MEASURED):

bridgelux

LED	Vero SE 13
FWHM / FWTM	20.0° / 89.0°
Efficiency	94 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C16402_CLAMP-VEROSE-13-18





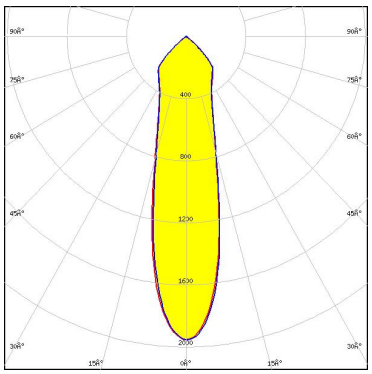
Light distribution files

bridgelux

LED	Vero SE 18
FWHM / FWTM	26.0° / 91.0°
Efficiency	94 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C16402_CLAMP-VEROSE-13-18





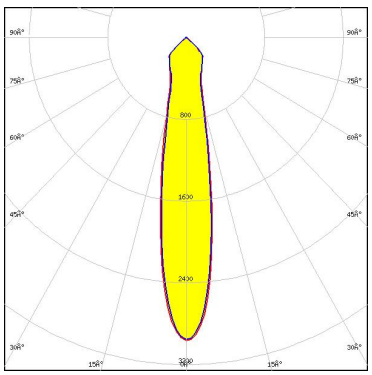
Light distribution files

bridgelux

LED	VERO13
FWHM / FWTM	20.0° / 68.0°
Efficiency	93 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C13658_CLAMP-VERO13-18





Light distribution files

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OPTICAL RESULTS (MEASURED):

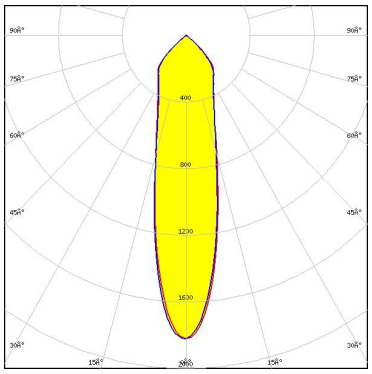
bridgelux

LED	VERO13
FWHM / FWTM	25.0° / 92.0°
Efficiency	88 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13658_CLAMP-VERO13-18
F13671_ANGE-RZ-LENS





Light distribution files

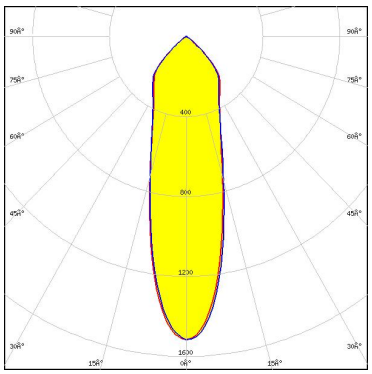
bridgelux

LED	VERO18
FWHM / FWTM	29.0° / 94.0°
Efficiency	89 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13658_CLAMP-VERO13-18
F13671_ANGE-RZ-LENS





Light distribution files

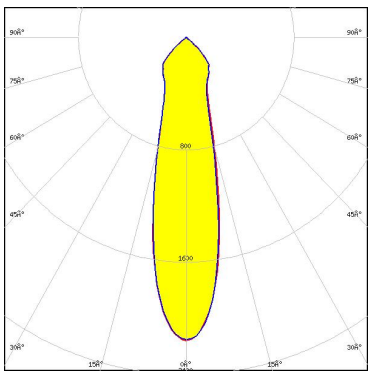
bridgelux

LED	VERO18
FWHM / FWTM	25.0° / 88.0°
Efficiency	92 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13658_CLAMP-VERO13-18





Light distribution files

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OPTICAL RESULTS (MEASURED):

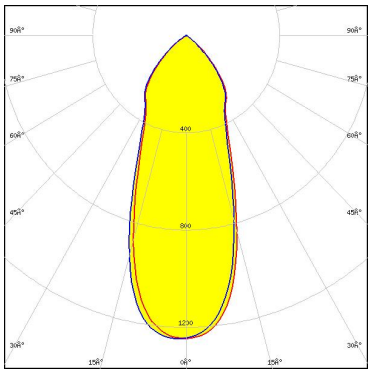
bridgelux

LED	VERO29
FWHM / FWTM	39.0° / 96.0°
Efficiency	90 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13584_CLAMP-VERO29





Light distribution files

bridgelux

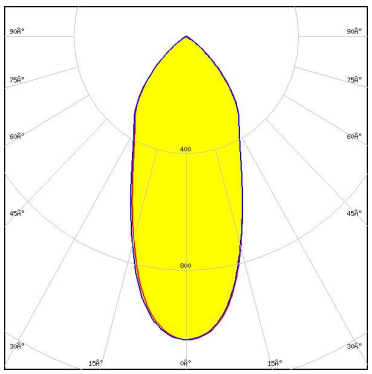
LED	VERO29
FWHM / FWTM	44.0° / 99.0°
Efficiency	89 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13584_CLAMP-VERO29

F13671_ANGE-RZ-LENS





Light distribution files

bridgelux

LED	Vesta TW 15mm DP
FWHM / FWTM	28.0° / 94.0°
Efficiency	89 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	Tunable White

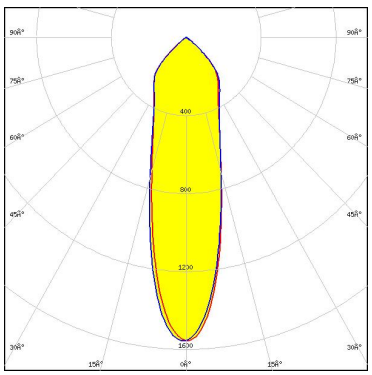
Required components:

C13658_CLAMP-VERO13-18

F13671_ANGE-RZ-LENS

Bender Wirth: 482 Typ L2





Light distribution files

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OPTICAL RESULTS (MEASURED):

bridgelux

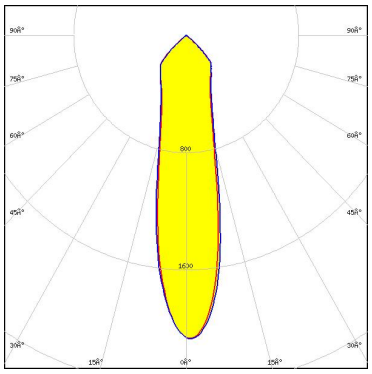
LED	Vesta TW 15mm DP
FWHM / FWTM	24.0° / 90.0°
Efficiency	92 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour/type	Tunable White

Required components:

C13658_CLAMP-VERO13-18

Bender Wirth: 482 Typ L2





Light distribution files

bridgelux

LED	Vesta TW 18mm (31W) DP
FWHM / FWTM	30.0° / 94.0°
Efficiency	89 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour/type	Tunable White

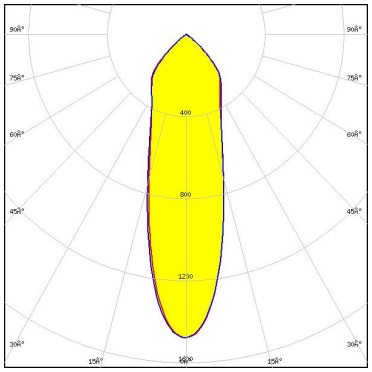
Required components:

C13584_CLAMP-VERO29

F13671_ANGE-RZ-LENS

Bender Wirth: 483 Typ L3





Light distribution files

bridgelux

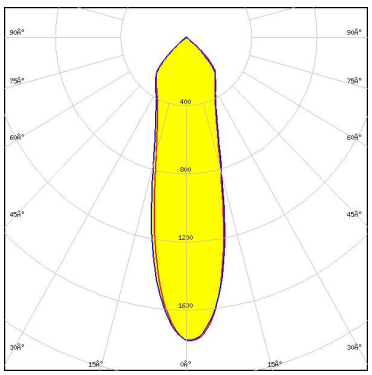
LED	Vesta TW 18mm (31W) DP
FWHM / FWTM	27.0° / 92.0°
Efficiency	94 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	Tunable White

Required components:

C13584_CLAMP-VERO29

Bender Wirth: 483 Typ L3





Light distribution files

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OPTICAL RESULTS (MEASURED):

bridgelux

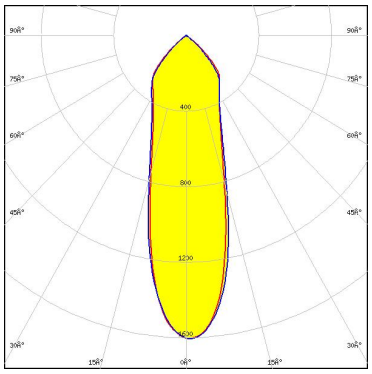
LED	Vesta TW 22mm DP
FWHM / FWTM	30.0° / 93.0°
Efficiency	94 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	Tunable White

Required components:

C13584_CLAMP-VERO29

Bender Wirth: 494 Typ L3





Light distribution files

bridgelux

LED	Vesta TW 22mm DP
FWHM / FWTM	33.0° / 95.0°
Efficiency	89 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour/type	Tunable White

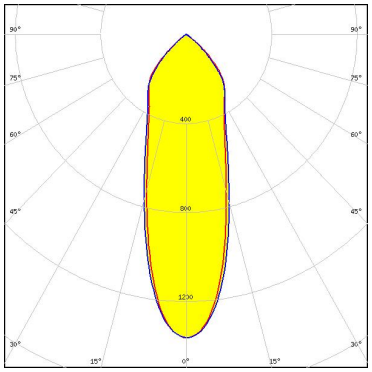
Required components:

C13584_CLAMP-VERO29

F13671_ANGE-RZ-LENS

Bender Wirth: 494 Typ L3





Light distribution files

CITIZEN

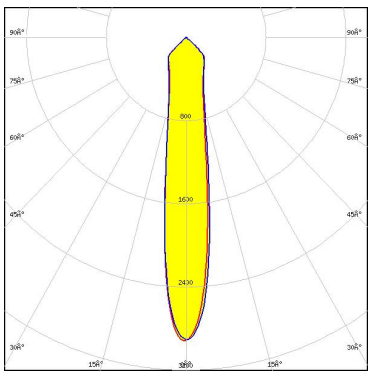
LED	CLU02x (LES10)
FWHM / FWTM	17.0° / 75.0°
Efficiency	93 %
Peak intensity	2.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13658_CLAMP-VERO13-18

Bender Wirth: 434 Typ L1





Light distribution files

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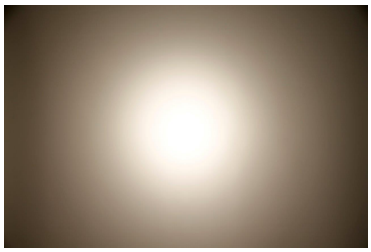
OPTICAL RESULTS (MEASURED):

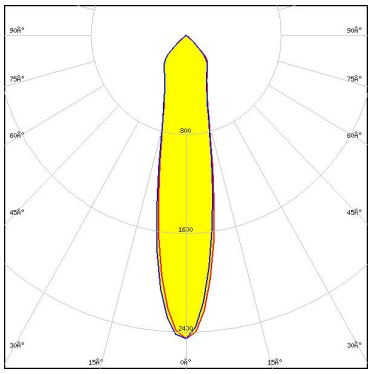
CITIZEN

LED	CLU03x
FWHM / FWTM	19.0° / 83.0°
Efficiency	94 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

IDEAL: 50-2103CT + 50-2100AN





Light distribution files

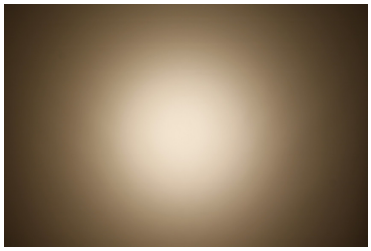
CITIZEN

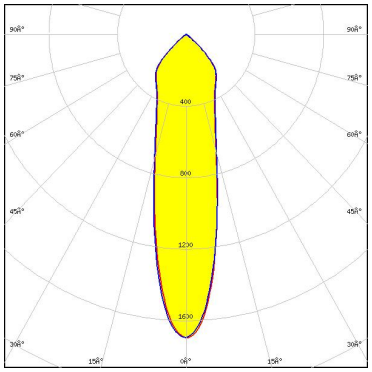
LED	CLU03x
FWHM / FWTM	25.0° / 92.0°
Efficiency	87 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

F13671_ANGE-RZ-LENS

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





Light distribution files

CITIZEN

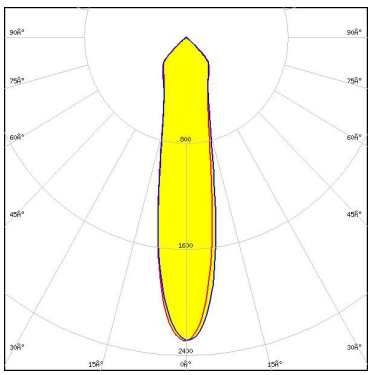
LED	CLU03x
FWHM / FWTM	21.0° / 89.0°
Efficiency	92 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13658_CLAMP-VERO13-18

Bender Wirth: 433 Typ L1





Light distribution files

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OPTICAL RESULTS (MEASURED):

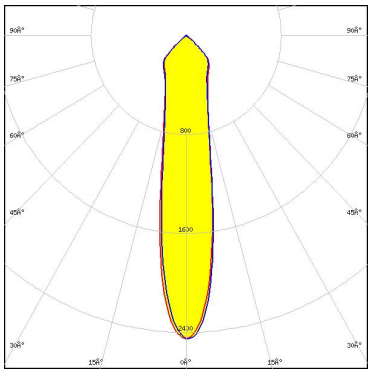
CITIZEN

LED	CLU03x
FWHM / FWTM	20.0° / 88.0°
Efficiency	94 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C16791_CLAMP-Z45-A
TE Connectivity: 2325807-3





Light distribution files

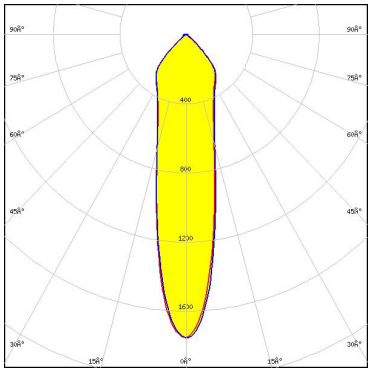
CITIZEN

LED	CLU03x
FWHM / FWTM	23.0° / 90.0°
Efficiency	87 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

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





Light distribution files

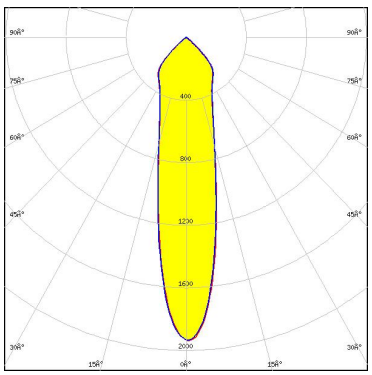
CITIZEN

LED	CLU03x
FWHM / FWTM	23.0° / 91.0°
Efficiency	91 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C16791_CLAMP-Z45-A
F13671_ANGE-RZ-LENS
TE Connectivity: 2325807-3





Light distribution files

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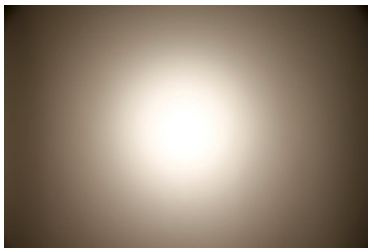
OPTICAL RESULTS (MEASURED):

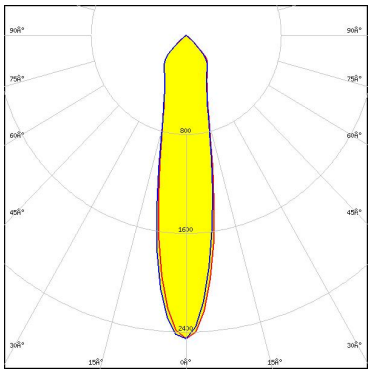
CITIZEN

LED	CLU03x
FWHM / FWTM	22.0° / 87.0°
Efficiency	94 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

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





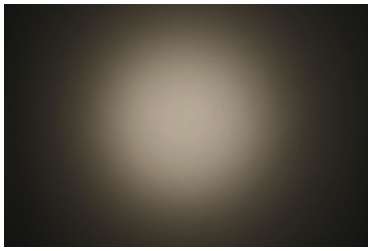
Light distribution files

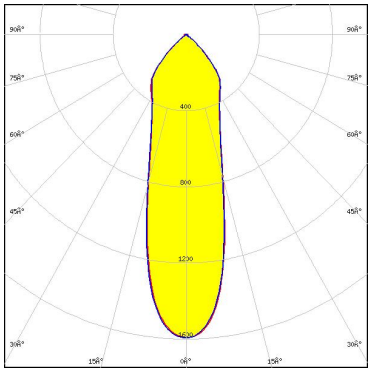
CITIZEN

LED	CLU04x
FWHM / FWTM	30.0° / 91.0°
Efficiency	92 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

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





Light distribution files

CITIZEN

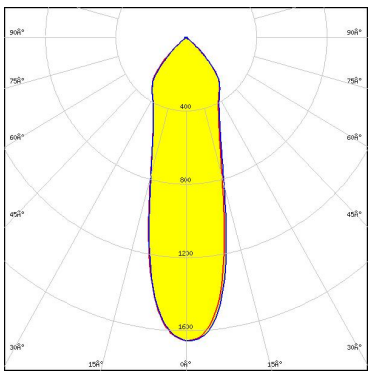
LED	CLU04x
FWHM / FWTM	29.0° / 91.0°
Efficiency	93 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13584_CLAMP-VERO29

Bender Wirth: 431 Typ L3





Light distribution files

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

OPTICAL RESULTS (MEASURED):

CITIZEN

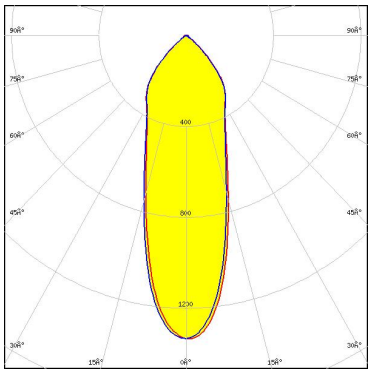
LED	CLU04x
FWHM / FWTM	33.0° / 93.0°
Efficiency	88 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

F13671_ANGE-RZ-LENS

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





Light distribution files

CITIZEN

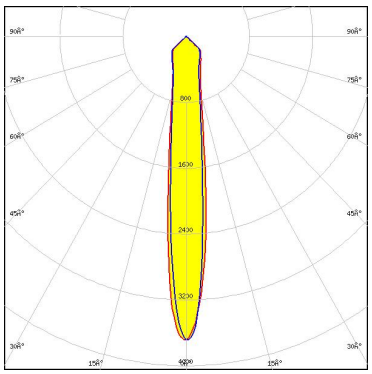
LED	CLU700/701/702/703
FWHM / FWTM	14.0° / 56.0°
Efficiency	93 %
Peak intensity	3.7 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13658_CLAMP-VERO13-18

Bender Wirth: 434 Typ L1





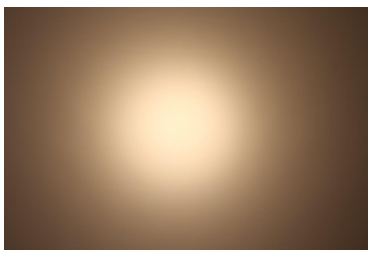
Light distribution files

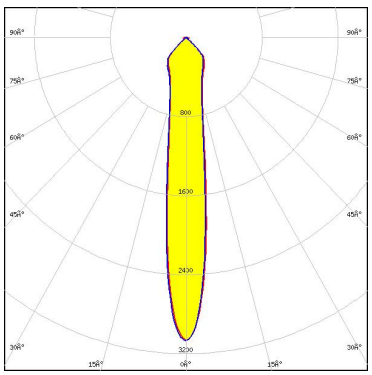
CITIZEN

LED	CLU720/721/723
FWHM / FWTM	17.0° / 84.0°
Efficiency	94 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

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





Light distribution files

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

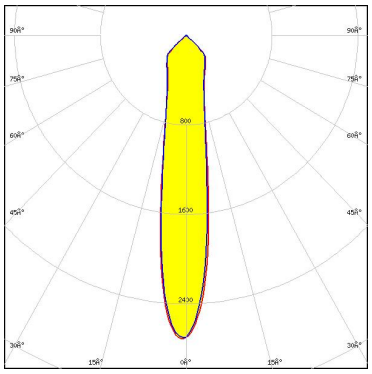
OPTICAL RESULTS (MEASURED):

CITIZEN

LED	CLU720/721/723
FWHM / FWTM	18.0° / 81.0°
Efficiency	92 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C13658_CLAMP-VERO13-18





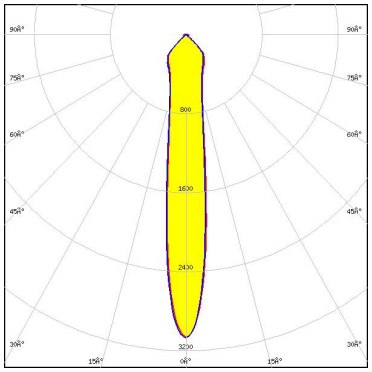
Light distribution files

CITIZEN

LED	CLU720/721/723
FWHM / FWTM	15.0° / 75.0°
Efficiency	94 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour/type	White

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





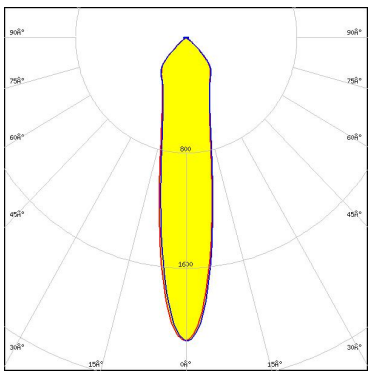
Light distribution files

CITIZEN

LED	CLU730/731/733
FWHM / FWTM	21.0° / 88.0°
Efficiency	87 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour/type	White

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





Light distribution files

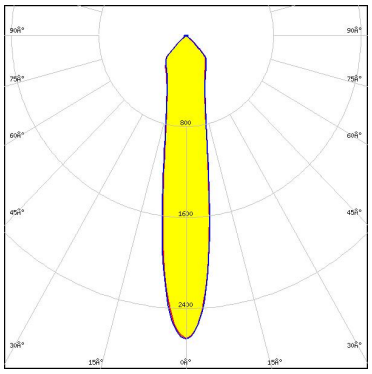
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

CITIZEN

LED	CLU730/731/733
FWHM / FWTM	18.0° / 84.0°
Efficiency	92 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
IDEAL: 50-2204-CT + 50-2100AN	



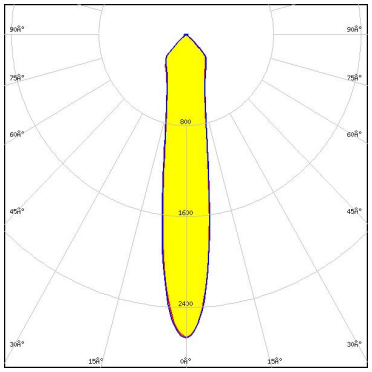


Light distribution files

CITIZEN

LED	CLU730/731/733
FWHM / FWTM	18.0° / 84.0°
Efficiency	92 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
IDEAL: 50-2204-CT + 50-2100AN	



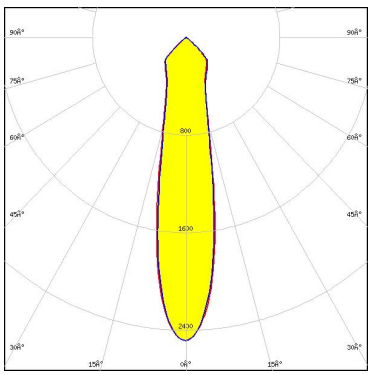


Light distribution files

CREE LEDs

LED	CMA1840
FWHM / FWTM	22.0° / 88.0°
Efficiency	95 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C14123_CLAMP-CXA15-18	





Light distribution files

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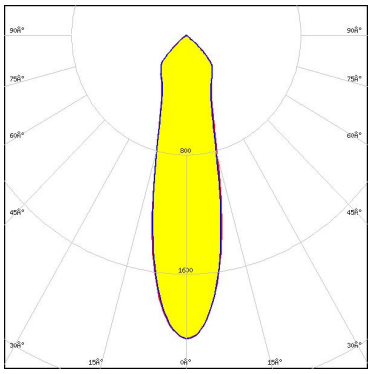
OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	CMA2550
FWHM / FWTM	26.0° / 90.0°
Efficiency	94 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C14036_CLAMP_CXA25-30





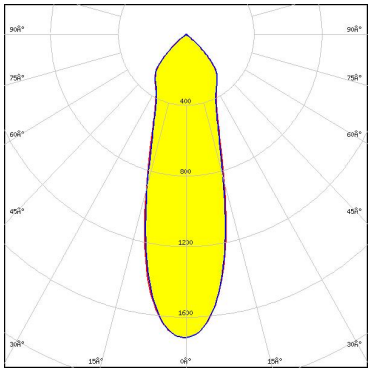
Light distribution files

CREE LEDs

LED	CMA3090
FWHM / FWTM	30.0° / 92.0°
Efficiency	94 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C14036_CLAMP_CXA25-30





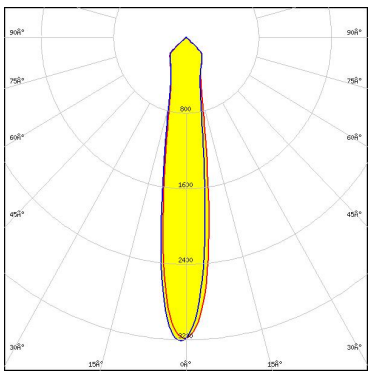
Light distribution files

CREE LEDs

LED	CMT14xx
FWHM / FWTM	17.0° / 65.0°
Efficiency	94 %
Peak intensity	3.2 cd/lm
LEDs/each optic	1
Light colour/type	White

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





Light distribution files

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OPTICAL RESULTS (MEASURED):

CREE LEDs

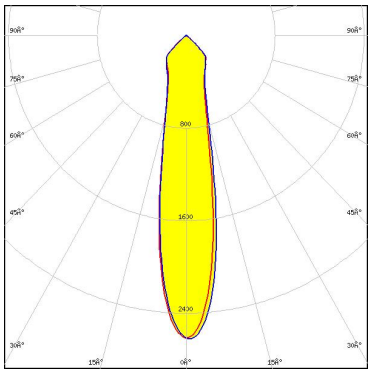
LED	CMT19xx
FWHM / FWTM	21.0° / 85.0°
Efficiency	94 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13658_CLAMP-VERO13-18

Bender Wirth: 477 Typ L1





Light distribution files

CREE LEDs

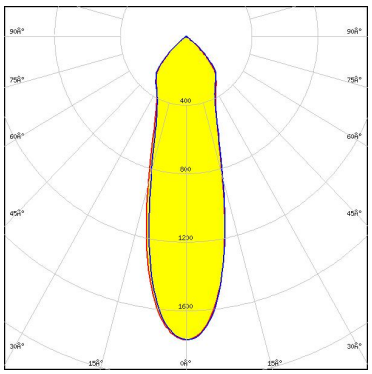
LED	CMT28xx
FWHM / FWTM	29.0° / 91.0°
Efficiency	94 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13584_CLAMP-VERO29

Bender Wirth: 471 Typ L3





Light distribution files

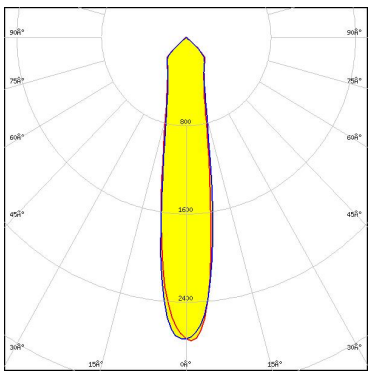
CREE LEDs

LED	CXA/B 15xx
FWHM / FWTM	20.0° / 81.0°
Efficiency	94 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C14123_CLAMP-CXA15-18





Light distribution files

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OPTICAL RESULTS (MEASURED):

CREE LEDs

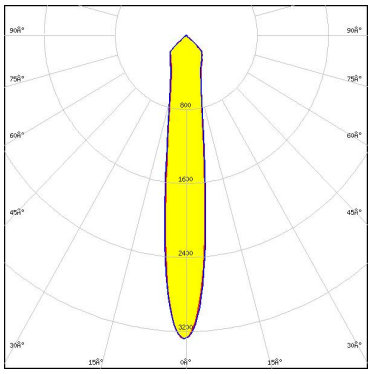
LED	CXA/B 15xx
FWHM / FWTM	15.0° / 65.0°
Efficiency	93 %
Peak intensity	3.3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13658_CLAMP-VERO13-18

Bender Wirth: 441 Typ L1





Light distribution files

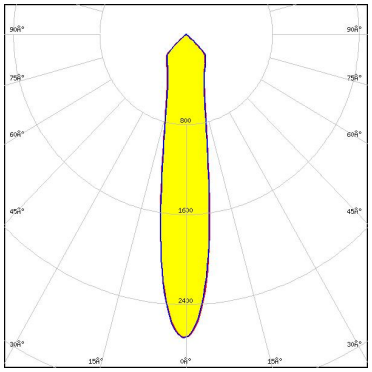
CREE LEDs

LED	CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM / FWTM	19.0° / 83.0°
Efficiency	93 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

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





Light distribution files

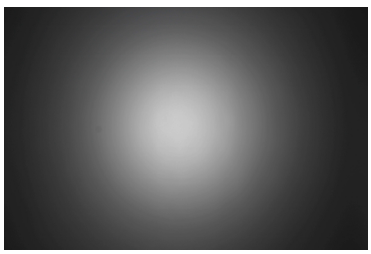
CREE LEDs

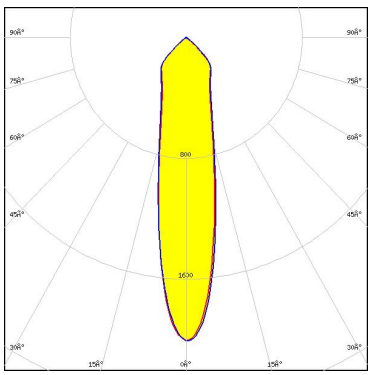
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM / FWTM	22.0° / 90.0°
Efficiency	89 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

F13671_ANGE-RZ-LENS

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





Light distribution files

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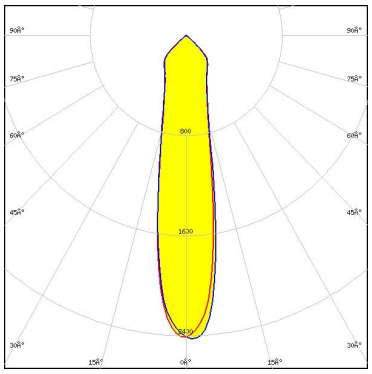
OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM / FWTM	22.0° / 89.0°
Efficiency	94 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C14123_CLAMP-CXA15-18





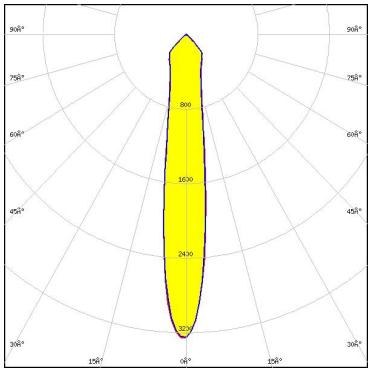
Light distribution files

CREE LEDs

LED	CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM / FWTM	16.0° / 68.0°
Efficiency	94 %
Peak intensity	3.3 cd/lm
LEDs/each optic	1
Light colour/type	White

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



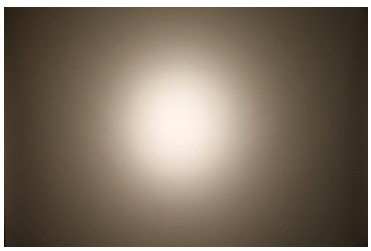


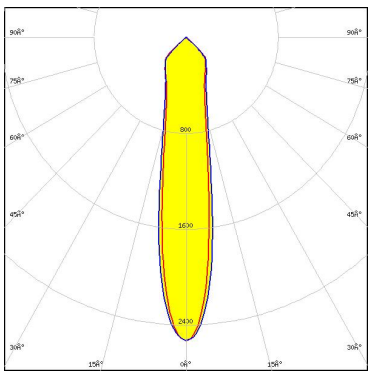
Light distribution files

CREE LEDs

LED	CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM / FWTM	19.0° / 87.0°
Efficiency	93 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour/type	White

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





Light distribution files

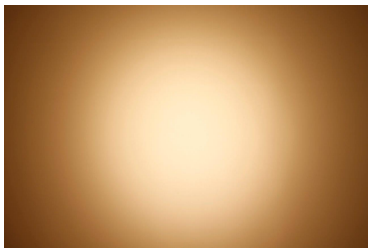
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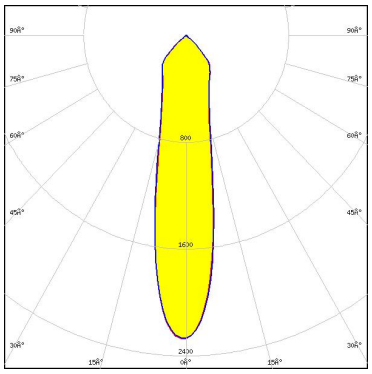
OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	CXA/B 25xx
FWHM / FWTM	22.0° / 87.0°
Efficiency	94 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour/type	White

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





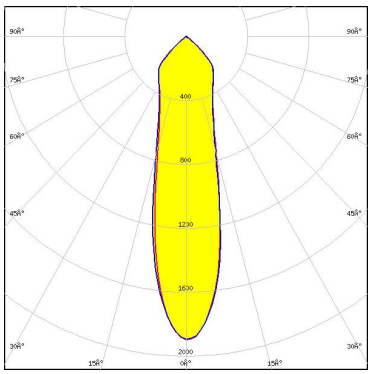
Light distribution files

CREE LEDs

LED	CXA/B 25xx
FWHM / FWTM	25.0° / 92.0°
Efficiency	93 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C14036_CLAMP_CXA25-30



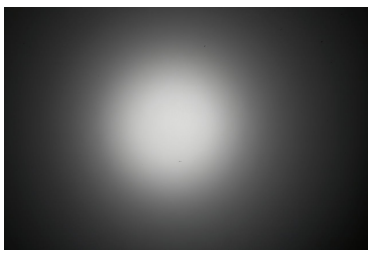


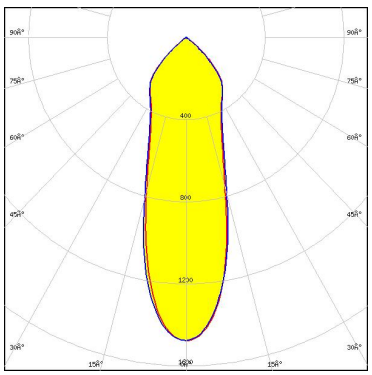
Light distribution files

CREE LEDs

LED	CXA/B 30xx
FWHM / FWTM	32.0° / 95.0°
Efficiency	92 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C14036_CLAMP_CXA25-30





Light distribution files

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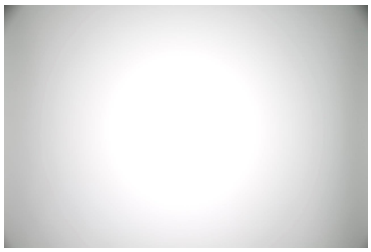
OPTICAL RESULTS (MEASURED):

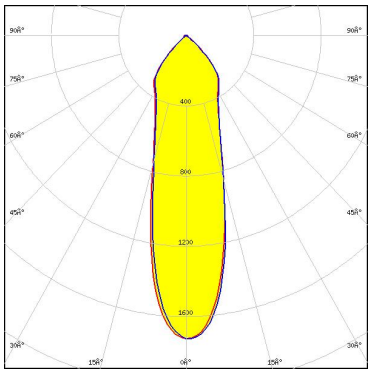
CREE LEDs

LED	CXA/B 30xx
FWHM / FWTM	28.0° / 89.0°
Efficiency	94 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

IDEAL: 50-2234C + 50-2100AN





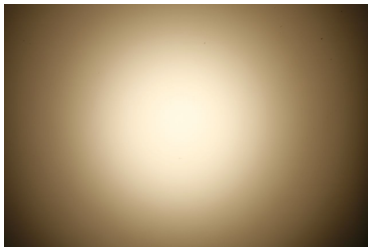
Light distribution files

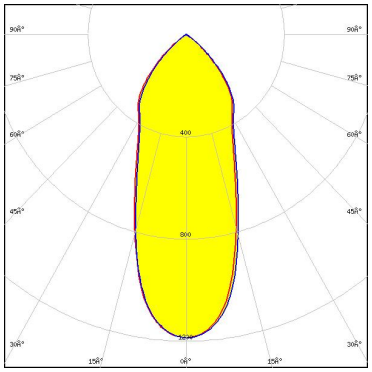
CREE LEDs

LED	CXA/B 3590
FWHM / FWTM	40.0° / 97.0°
Efficiency	93 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

IDEAL: 50-2303CR + 50-2300AN





Light distribution files

EVERLIGHT

LED	CHI3030 19W
FWHM / FWTM	29.0° / 90.0°
Efficiency	88 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13584_CLAMP-VERO29

F13671_ANGE-RZ-LENS

Bender Wirth: 468 Typ L3



Light distribution files

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

OPTICAL RESULTS (MEASURED):

EVERLIGHT

LED	CHI3030 29W
FWHM / FWTM	39.0° / 90.0°
Efficiency	88 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

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



Light distribution files

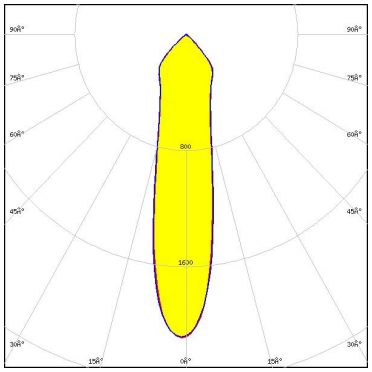
inventronics

LED	PrevaLED Core AC (LEP-2000)
FWHM / FWTM	23.0° / 88.0°
Efficiency	93 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1





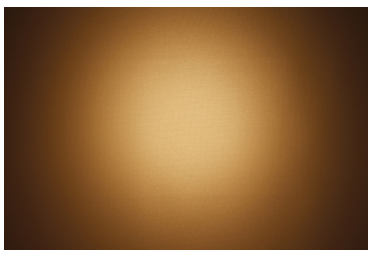
Light distribution files

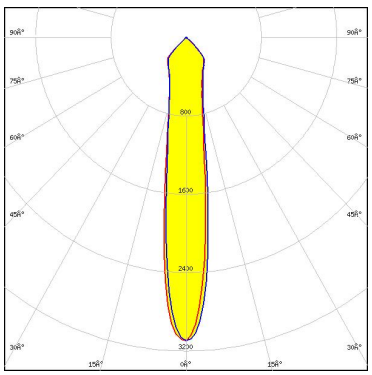
inventronics

LED	PrevaLED Core AC (LEP-800)
FWHM / FWTM	16.0° / 76.0°
Efficiency	94 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1





Light distribution files

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

OPTICAL RESULTS (MEASURED):

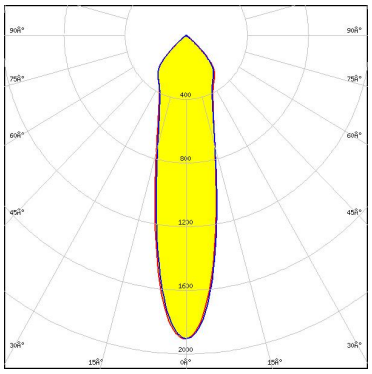
inventronics

LED	PrevaLED Core G7 L15 H1
FWHM / FWTM	24.0° / 90.0°
Efficiency	91 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C16685_CLAMP-PRV-A
F13671_ANGE-RZ-LENS





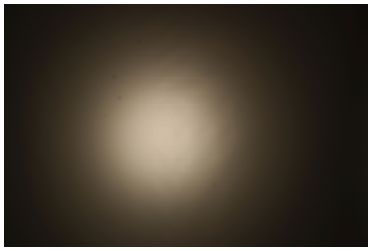
Light distribution files

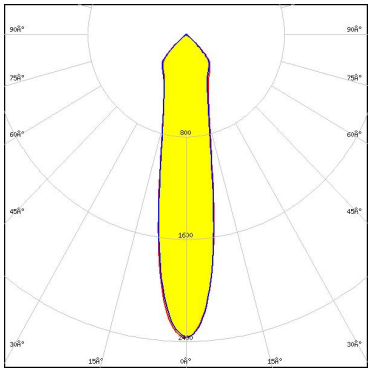
inventronics

LED	PrevaLED Core G7 L15 H1
FWHM / FWTM	21.0° / 88.0°
Efficiency	94 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C16685_CLAMP-PRV-A





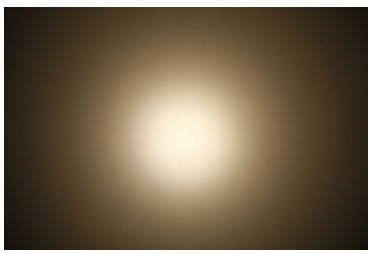
Light distribution files

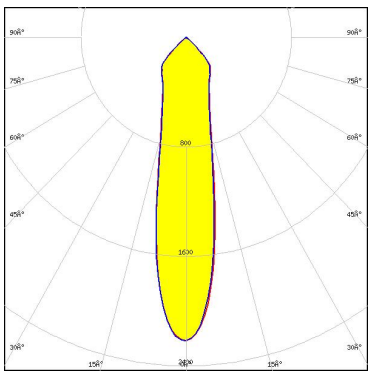
inventronics

LED	PrevaLED Core Z3 LES19
FWHM / FWTM	23.0° / 89.0°
Efficiency	94 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1





Light distribution files

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OPTICAL RESULTS (MEASURED):

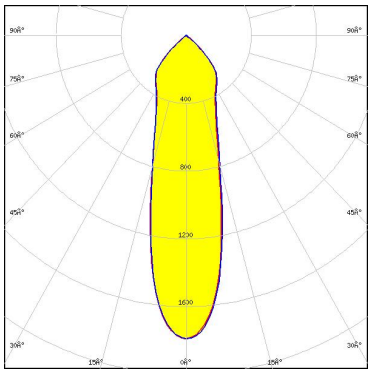
inventronics

LED	PrevaLED Core Z3 LES23
FWHM / FWTM	27.0° / 91.0°
Efficiency	94 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1





Light distribution files

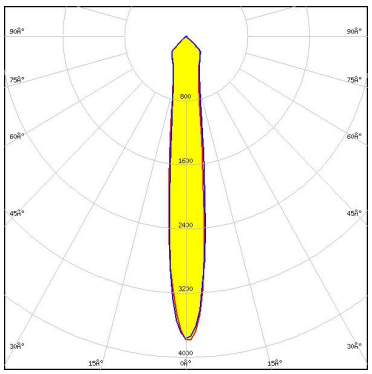
inventronics

LED	PrevaLED Core Z3 LES9
FWHM / FWTM	14.0° / 54.0°
Efficiency	94 %
Peak intensity	3.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1





Light distribution files

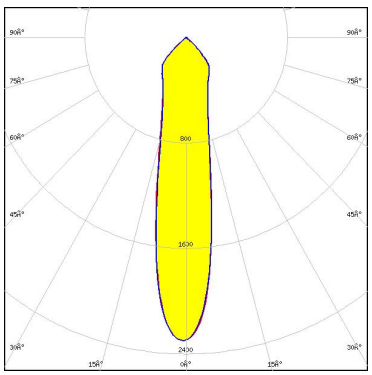
inventronics

LED	PrevaLED Core Z4 LES19
FWHM / FWTM	21.0° / 87.0°
Efficiency	94 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1





Light distribution files

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OPTICAL RESULTS (MEASURED):

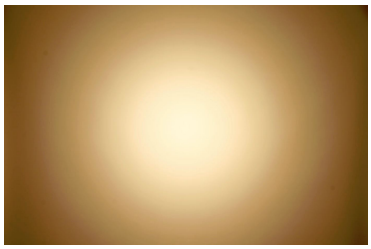
inventronics

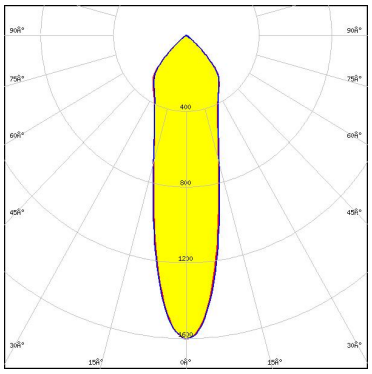
LED	PrevaLED Core Z4 LES19
FWHM / FWTM	26.0° / 92.0°
Efficiency	88 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

F13671_ANGE-RZ-LENS

TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1





Light distribution files

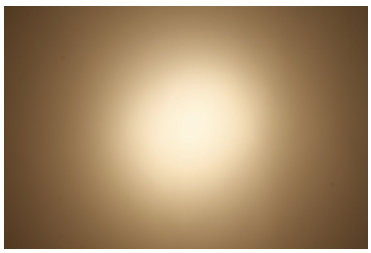
LUMILEDS

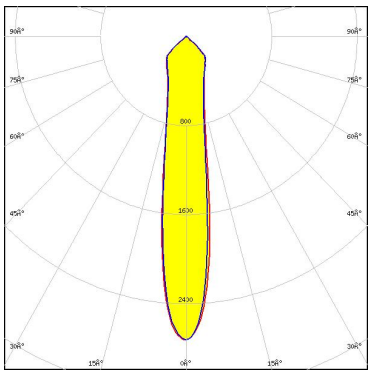
LED	LUXEON CoB 1202/1203
FWHM / FWTM	18.0° / 83.0°
Efficiency	93 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13658_CLAMP-VERO13-18

Bender Wirth: 438 Typ L1





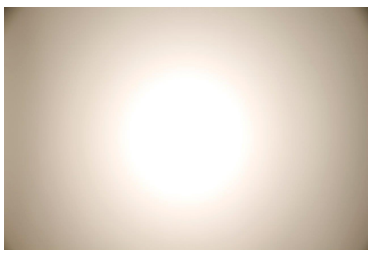
Light distribution files

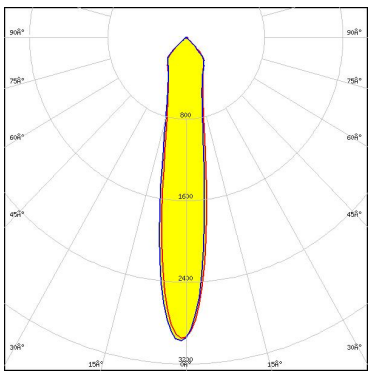
LUMILEDS

LED	LUXEON CoB 1204/1205
FWHM / FWTM	17.0° / 76.0°
Efficiency	94 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

IDEAL: 50-2100SH + 50-2100AN





Light distribution files

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OPTICAL RESULTS (MEASURED):

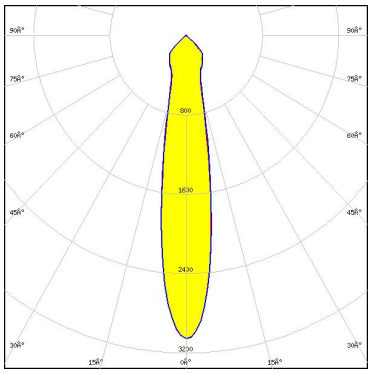
LUMILEDS

LED	LUXEON CoB 1204/1205
FWHM / FWTM	19.0° / 68.0°
Efficiency	94 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

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





Light distribution files

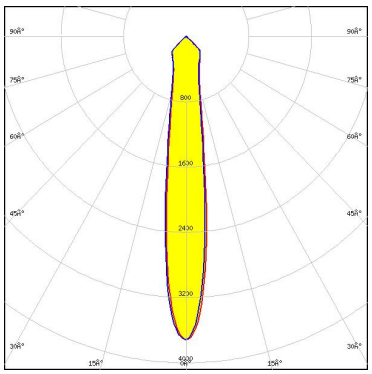
LUMILEDS

LED	LUXEON CoB 1204HD
FWHM / FWTM	15.0° / 53.0°
Efficiency	95 %
Peak intensity	3.7 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

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





Light distribution files

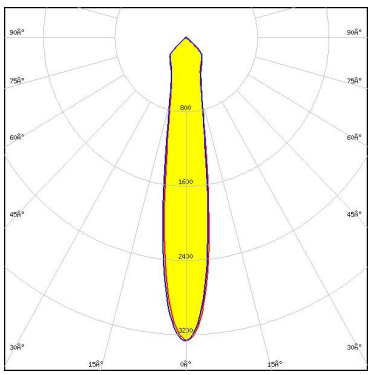
LUMILEDS

LED	LUXEON CoB 1205HD
FWHM / FWTM	17.0° / 65.0°
Efficiency	95 %
Peak intensity	3.3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

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





Light distribution files

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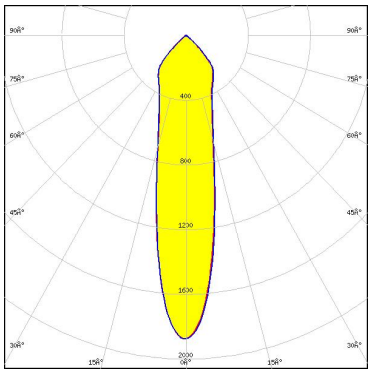
OPTICAL RESULTS (MEASURED):

LUMILEDS

LED	LUXEON CoB 1208
FWHM / FWTM	23.0° / 89.0°
Efficiency	88 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White

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





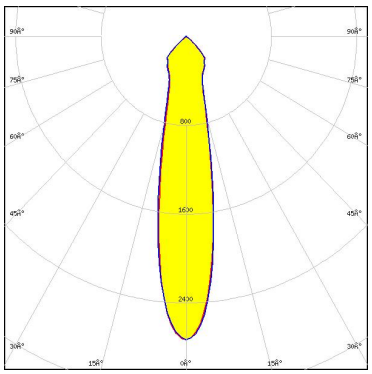
Light distribution files

LUMILEDS

LED	LUXEON CoB 1208
FWHM / FWTM	21.0° / 79.0°
Efficiency	93 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour/type	White

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





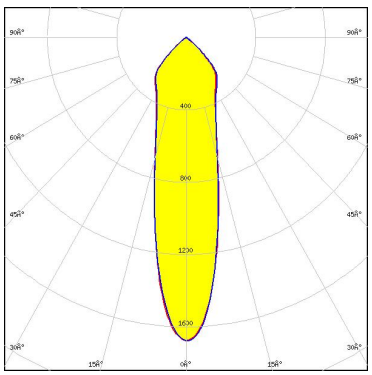
Light distribution files

LUMILEDS

LED	LUXEON CoB 1208
FWHM / FWTM	25.0° / 92.0°
Efficiency	87 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White

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





Light distribution files

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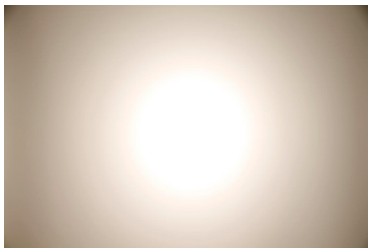
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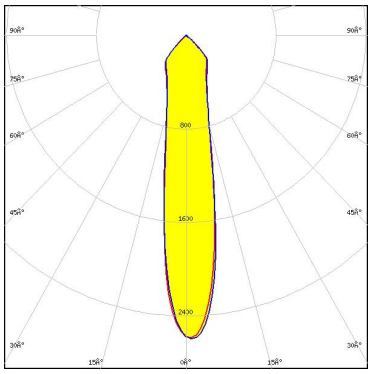
LUMILEDS

LED	LUXEON CoB 1208
FWHM / FWTM	20.0° / 84.0°
Efficiency	94 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

IDEAL: 50-2100SH + 50-2100AN





Light distribution files

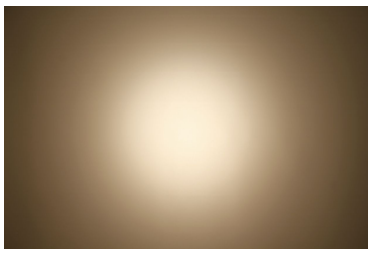
LUMILEDS

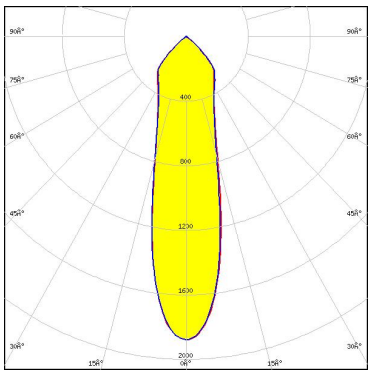
LED	LUXEON CoB 1211
FWHM / FWTM	26.0° / 91.0°
Efficiency	94 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13584_CLAMP-VERO29

Bender Wirth: 431 Typ L3





Light distribution files

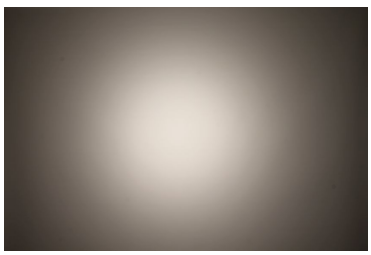
LUMILEDS

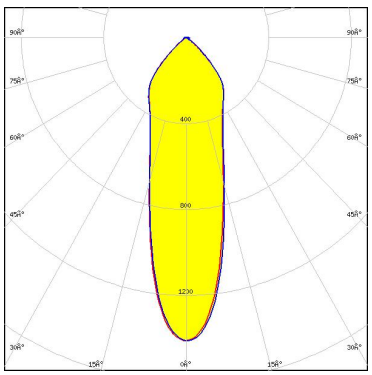
LED	LUXEON CoB 1211
FWHM / FWTM	30.0° / 93.0°
Efficiency	87 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

F13671_ANGE-RZ-LENS

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





Light distribution files

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OPTICAL RESULTS (MEASURED):

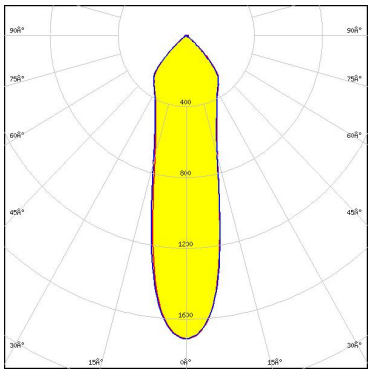
LUMILEDS

LED	LUXEON CoB 1211
FWHM / FWTM	26.0° / 91.0°
Efficiency	91 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

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





Light distribution files

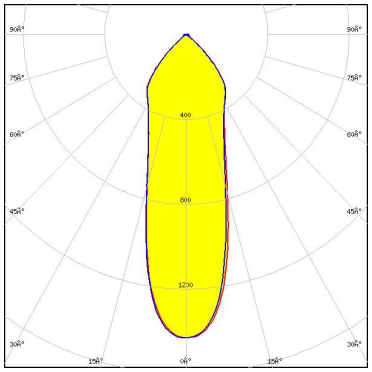
LUMILEDS

LED	LUXEON CoB 1213/1216/1812
FWHM / FWTM	31.0° / 93.0°
Efficiency	91 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

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





Light distribution files

LUMILEDS

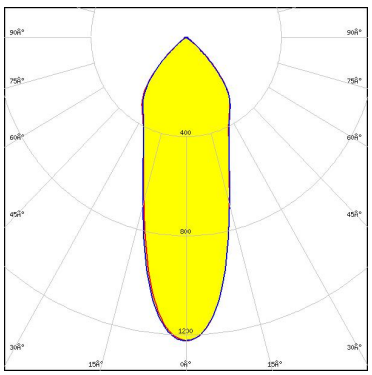
LED	LUXEON CoB 1213/1216/1812
FWHM / FWTM	34.0° / 95.0°
Efficiency	87 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

F13671_ANGE-RZ-LENS

IDEAL: 50-2204CT + 50-2100LN





Light distribution files

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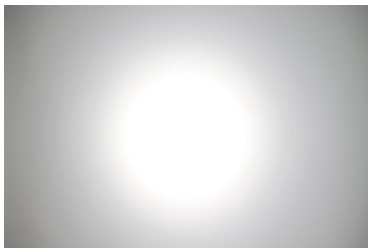
OPTICAL RESULTS (MEASURED):

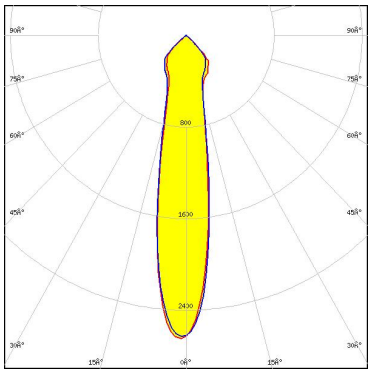
LUMILEDS

LED	LUXEON K12
FWHM / FWTM	20.0° / 86.0°
Efficiency	94 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

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





Light distribution files

LUMILEDS

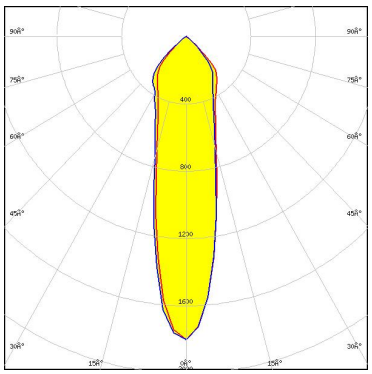
LED	LUXEON K12
FWHM / FWTM	25.0° / 93.0°
Efficiency	89 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

F13671_ANGE-RZ-LENS

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





Light distribution files

LUMILEDS

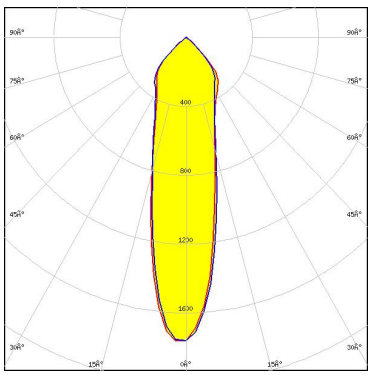
LED	LUXEON K16
FWHM / FWTM	26.0° / 92.0°
Efficiency	89 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

F13671_ANGE-RZ-LENS

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





Light distribution files

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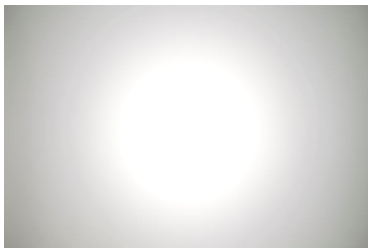
OPTICAL RESULTS (MEASURED):

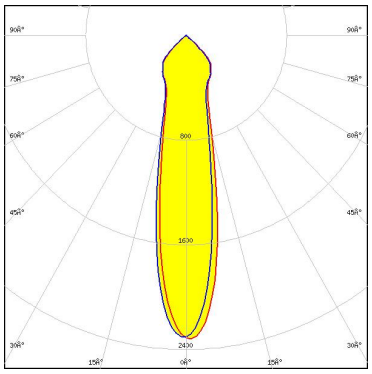
LUMILEDS

LED	LUXEON K16
FWHM / FWTM	22.0° / 90.0°
Efficiency	94 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

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





Light distribution files

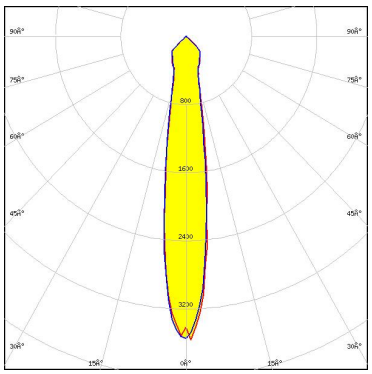
LUMILEDS

LED	LUXEON S2000
FWHM / FWTM	17.0° / 55.0°
Efficiency	93 %
Peak intensity	3.6 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13395_CLAMP-S2000





Light distribution files

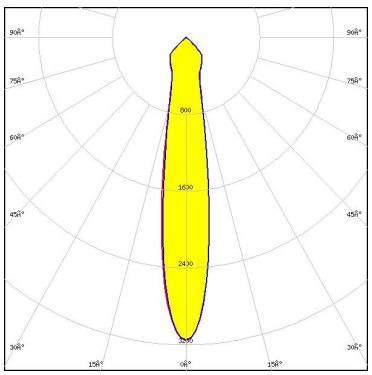
LUMILEDS

LED	LUXEON S3000
FWHM / FWTM	18.0° / 65.0°
Efficiency	92 %
Peak intensity	3.2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13397_CLAMP-S3000





Light distribution files

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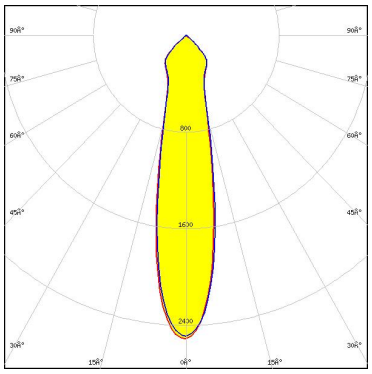
OPTICAL RESULTS (MEASURED):

LUMILEDS

LED	LUXEON S5000
FWHM / FWTM	22.0° / 86.0°
Efficiency	93 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C13399_CLAMP-S5000





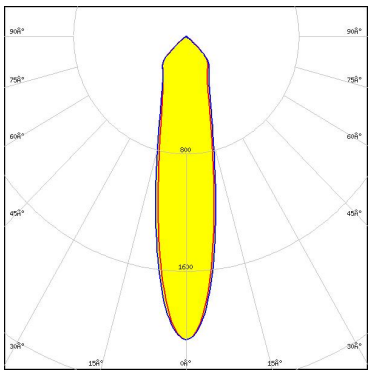
Light distribution files

LUMINUS

LED	CDM-14 (Dim-To-Warm)
FWHM / FWTM	23.0° / 89.0°
Efficiency	89 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour/type	White

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





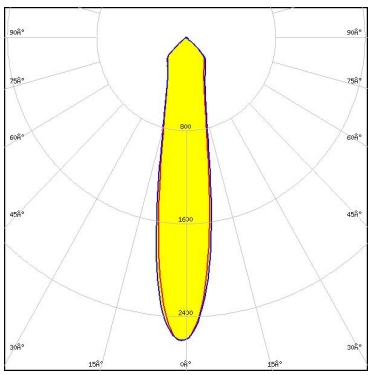
Light distribution files

LUMINUS

LED	CDM-14 (Dim-To-Warm)
FWHM / FWTM	20.0° / 80.0°
Efficiency	93 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour/type	White

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





Light distribution files

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OPTICAL RESULTS (MEASURED):

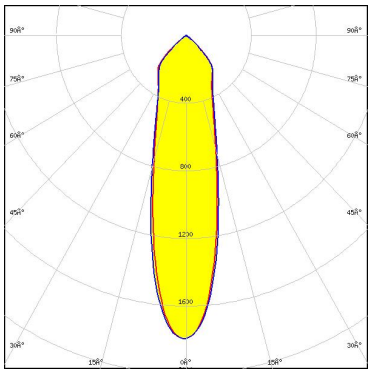
LUMINUS

LED	CDM-18 (Dim-To-Warm)
FWHM / FWTM	26.0° / 91.0°
Efficiency	89 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

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





Light distribution files

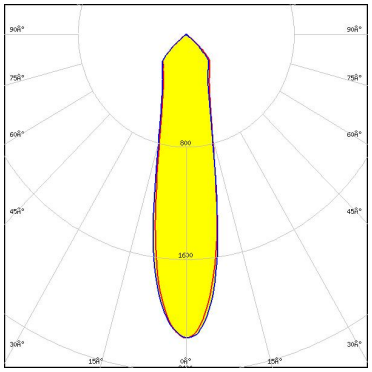
LUMINUS

LED	CDM-18 (Dim-To-Warm)
FWHM / FWTM	24.0° / 89.0°
Efficiency	93 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13658_CLAMP-VERO13-18
Bender Wirth: 491 Typ L2





Light distribution files

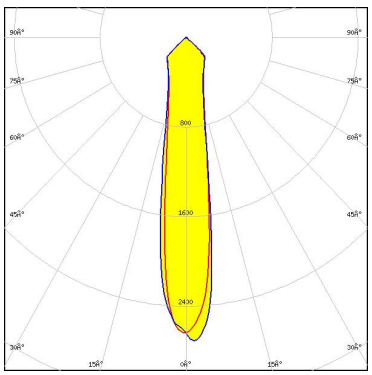
LUMINUS

LED	CDM-9 (Dim-To-Warm)
FWHM / FWTM	18.0° / 81.0°
Efficiency	92 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13658_CLAMP-VERO13-18
Bender Wirth: 490 Typ L1





Light distribution files

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

OPTICAL RESULTS (MEASURED):

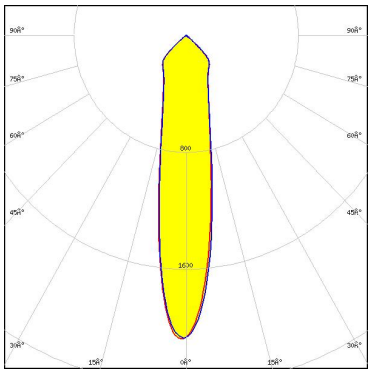
LUMINUS

LED	CDM-9 (Dim-To-Warm)
FWHM / FWTM	21.0° / 91.0°
Efficiency	87 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

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





Light distribution files

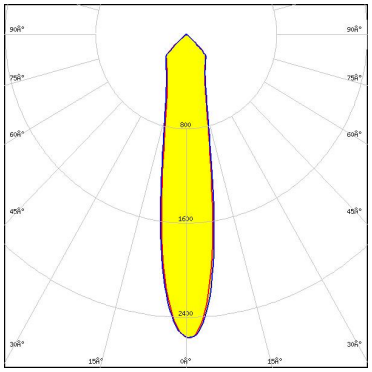
LUMINUS

LED	CTM-14 (Tunable White)
FWHM / FWTM	20.0° / 86.0°
Efficiency	93 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13584_CLAMP-VERO29
Bender Wirth: 442 Typ L3





Light distribution files

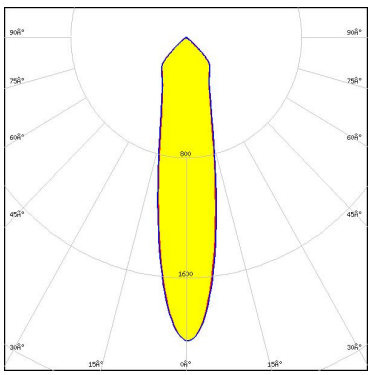
LUMINUS

LED	CTM-14 (Tunable White)
FWHM / FWTM	23.0° / 90.0°
Efficiency	88 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

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





Light distribution files

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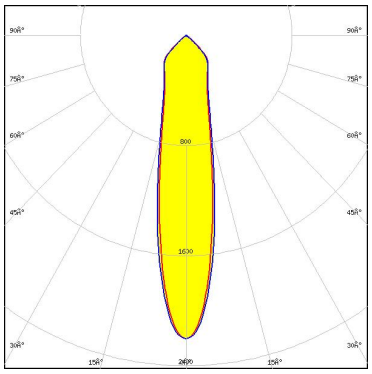
OPTICAL RESULTS (MEASURED):

LUMINUS

LED	CTM-14 RGBW
FWHM / FWTM	22.0° / 87.0°
Efficiency	90 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour/type	RGBW

Required components:
- C13584_CLAMP-VERO29
- F13671_ANGE-RZ-LENS
- Bender Wirth: 500 Typ L3-1



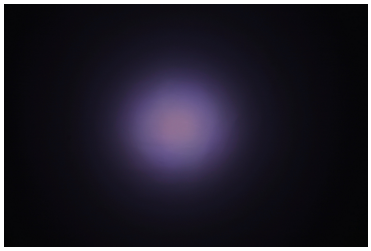


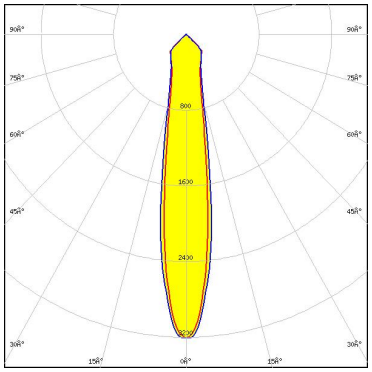
Light distribution files

LUMINUS

LED	CTM-14 RGBW
FWHM / FWTM	18.0° / 62.0°
Efficiency	94 %
Peak intensity	3.2 cd/lm
LEDs/each optic	1
Light colour/type	RGBW

Required components:
- C13584_CLAMP-VERO29
- Bender Wirth: 500 Typ L3-1





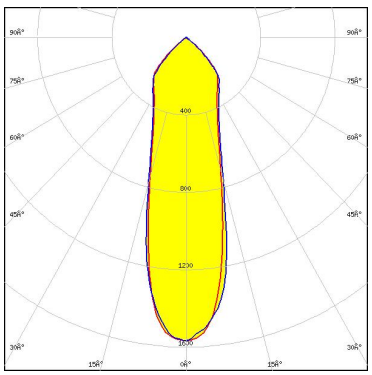
Light distribution files

LUMINUS

LED	CTM-22 (Tunable White)
FWHM / FWTM	29.0°
Efficiency	91 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	White

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





Light distribution files

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OPTICAL RESULTS (MEASURED):

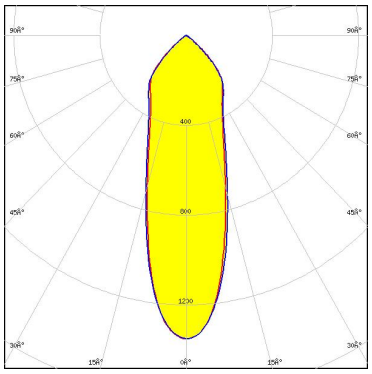
LUMINUS

LED	CTM-22 (Tunable White)
FWHM / FWTM	32.0° / 95.0°
Efficiency	87 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

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





Light distribution files

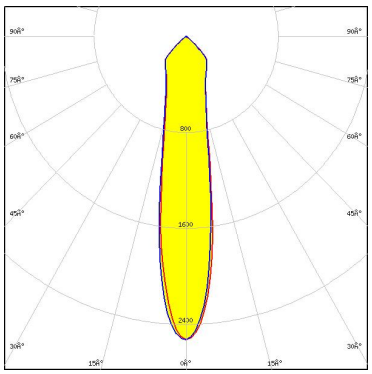
LUMINUS

LED	CxM-14 (19x19)
FWHM / FWTM	20.0° / 86.0°
Efficiency	94 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

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





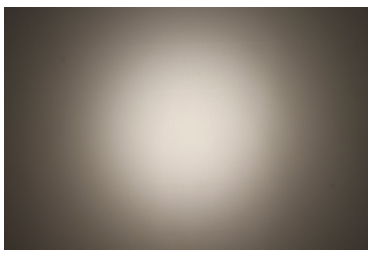
Light distribution files

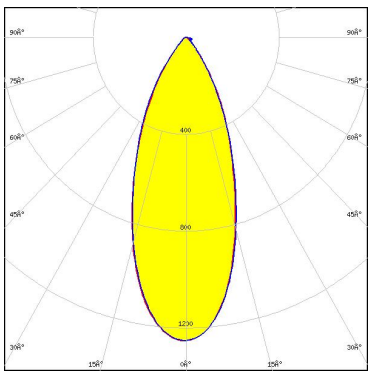
NICHIA

LED	COB J-Type
FWHM / FWTM	22.0° / 89.0°
Efficiency	93 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13658_CLAMP-VERO13-18
Bender Wirth: 463 Typ L2





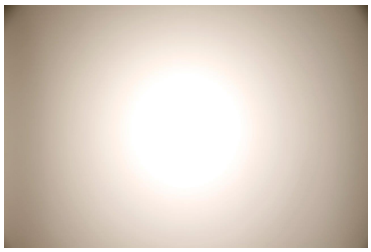
Light distribution files

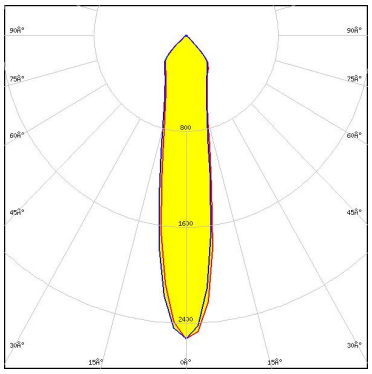
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OPTICAL RESULTS (MEASURED):

NICHIA

LED	COB J-Type
FWHM / FWTM	20.0° / 85.0°
Efficiency	94 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
IDEAL: 50-2103NC + 50-2100AN	



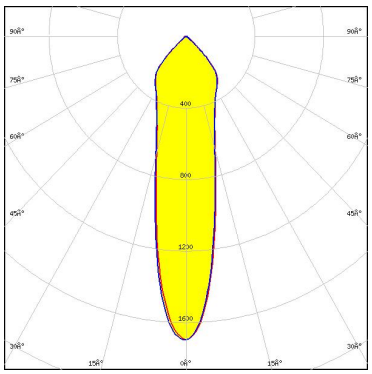


Light distribution files

NICHIA

LED	COB J-Type
FWHM / FWTM	24.0° / 90.0°
Efficiency	87 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F13671_ANGE-RZ-LENS	
IDEAL: 50-2103NC + 50-2100AN	



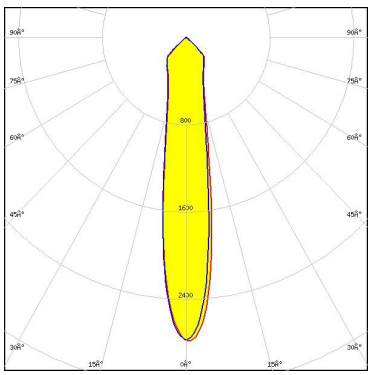


Light distribution files

NICHIA

LED	COB L-Type (LES 11)
FWHM / FWTM	18.0° / 78.0°
Efficiency	93 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C13658_CLAMP-VERO13-18	
Bender Wirth: 438 Typ L1	





Light distribution files

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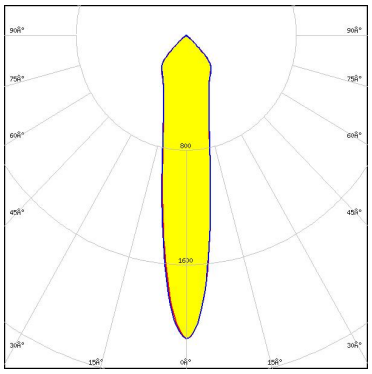
OPTICAL RESULTS (MEASURED):

NICHIA

LED	COB L-Type (LES 11)
FWHM / FWTM	19.0° / 88.0°
Efficiency	87 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour/type	White

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





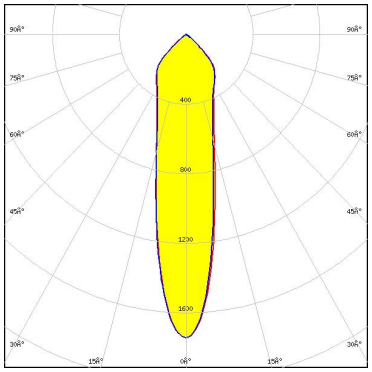
Light distribution files

NICHIA

LED	COB L-Type (LES 11)
FWHM / FWTM	17.0° / 86.0°
Efficiency	92 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour/type	White

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





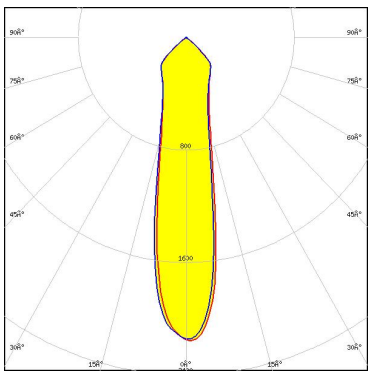
Light distribution files

NICHIA

LED	COB L-Type (LES 11)
FWHM / FWTM	22.0° / 93.0°
Efficiency	94 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
Molex: 180580-0005





Light distribution files

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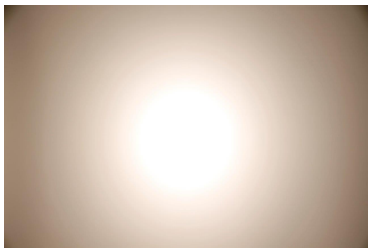
OPTICAL RESULTS (MEASURED):

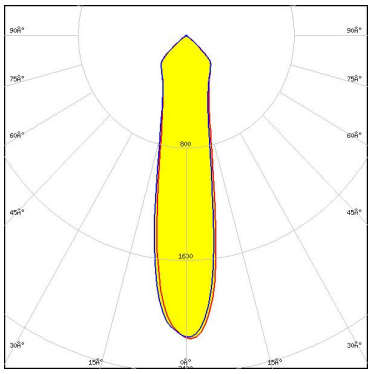
NICHIA

LED	COB L-Type (LES 11)
FWHM / FWTM	16.0° / 71.0°
Efficiency	91 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

IDEAL: 50-2100NC + 50-2100AN





Light distribution files

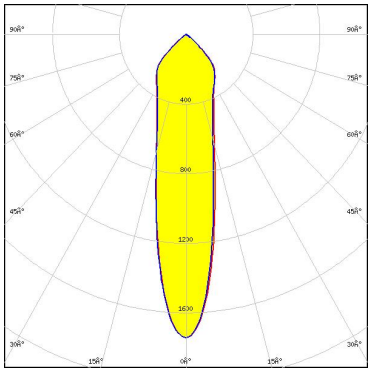
NICHIA

LED	COB L-Type (LES 11)
FWHM / FWTM	17.0° / 86.0°
Efficiency	92 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

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





Light distribution files

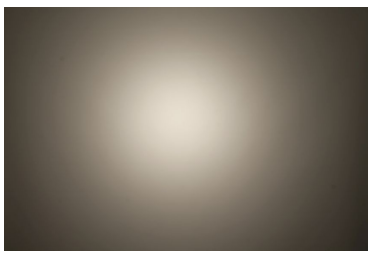
NICHIA

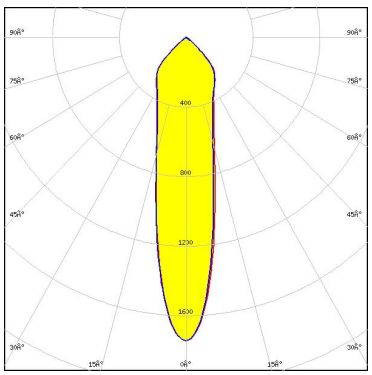
LED	COB L-Type (LES 11)
FWHM / FWTM	23.0° / 92.0°
Efficiency	86 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

F13671_ANGE-RZ-LENS

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





Light distribution files

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OPTICAL RESULTS (MEASURED):

NICHIA

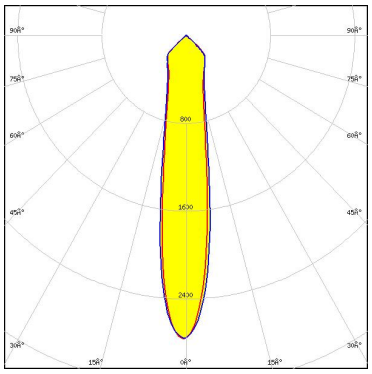
LED	NVCWJ024Z-V1MT: COB J-Type Tunable White
FWHM / FWTM	18.0° / 80.0°
Efficiency	93 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13658_CLAMP-VERO13-18

Bender Wirth: 498 Typ L2





Light distribution files

NICHIA

LED	NVCWJ024Z-V1MT: COB J-Type Tunable White
FWHM / FWTM	22.0° / 91.0°
Efficiency	88 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White

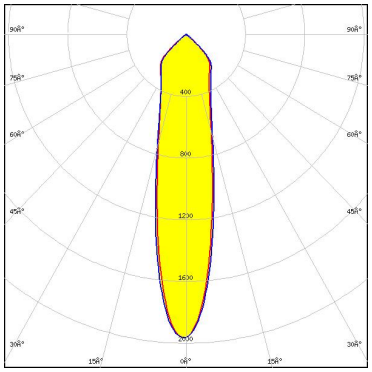
Required components:

C13658_CLAMP-VERO13-18

F13671_ANGE-RZ-LENS

Bender Wirth: 498 Typ L2





Light distribution files

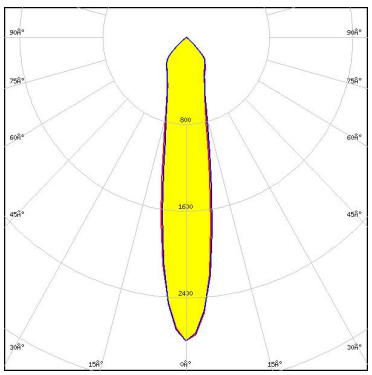
OSRAM
Opto Semiconductors

LED	Soleriq S13
FWHM / FWTM	20.0° / 82.0°
Efficiency	94 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

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





Light distribution files

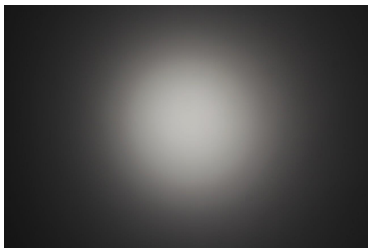
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

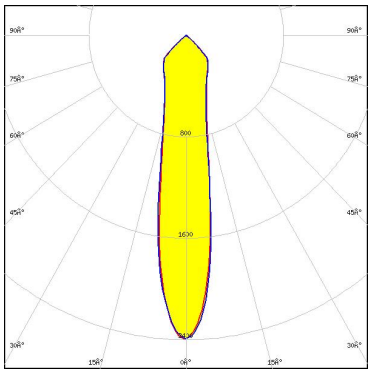
OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

LED	Soleriq S13
FWHM / FWTM	20.0° / 89.0°
Efficiency	92 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour/type	White

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





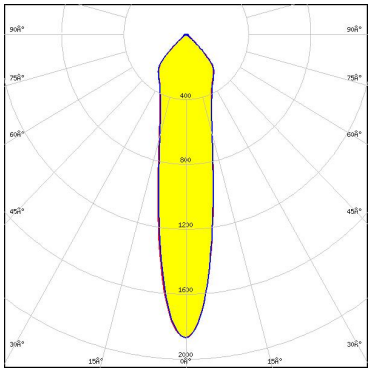
Light distribution files

OSRAM
Opto Semiconductors

LED	Soleriq S13 19x19
FWHM / FWTM	22.0° / 90.0°
Efficiency	87 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White

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



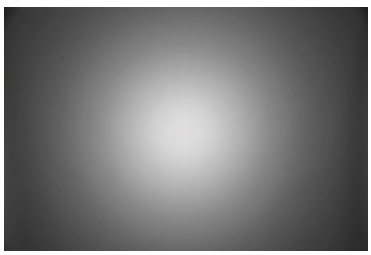


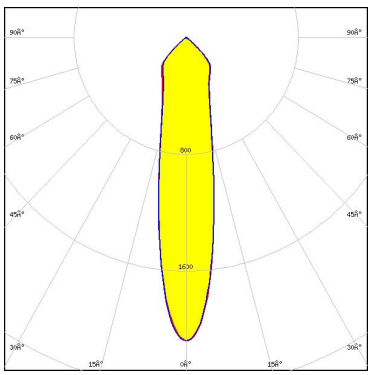
Light distribution files

OSRAM
Opto Semiconductors

LED	Soleriq S13 19x19
FWHM / FWTM	22.0° / 90.0°
Efficiency	88 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour/type	White

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





Light distribution files

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

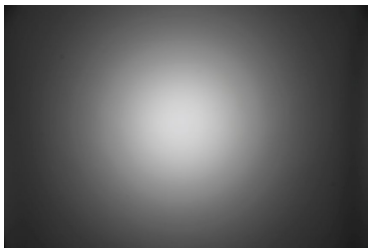
OPTICAL RESULTS (MEASURED):

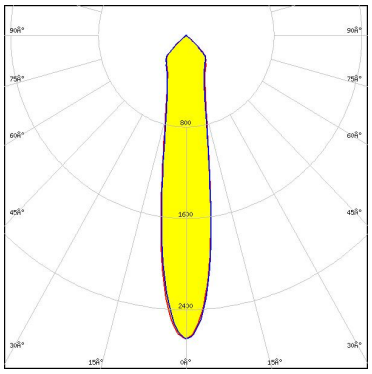
OSRAM
Opto Semiconductors

LED	Soleriq S13 19x19
FWHM / FWTM	19.0° / 84.0°
Efficiency	93 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

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





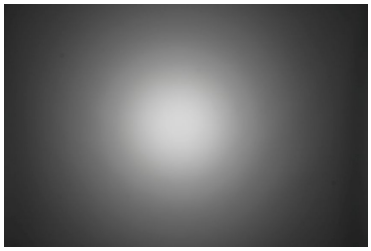
Light distribution files

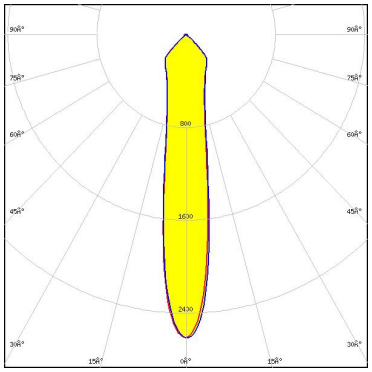
OSRAM
Opto Semiconductors

LED	Soleriq S13 19x19
FWHM / FWTM	17.0° / 86.0°
Efficiency	91 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

IDEAL: 50-2103CT + 50-2100AN





Light distribution files

OSRAM
Opto Semiconductors

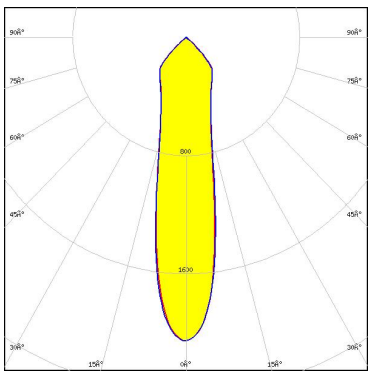
LED	Soleriq S19
FWHM / FWTM	23.0° / 89.0°
Efficiency	92 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13584_CLAMP-VERO29

Bender Wirth: 462 Typ L3





Light distribution files

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

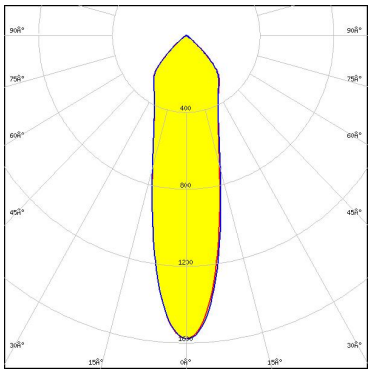
OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

LED	Soleriq S19
FWHM / FWTM	27.0° / 93.0°
Efficiency	88 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	White

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





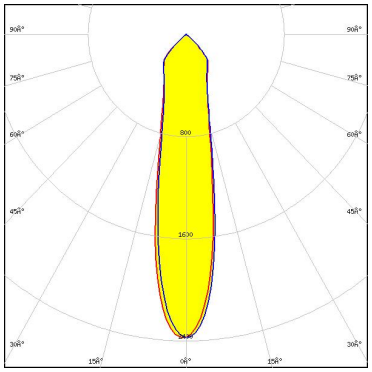
Light distribution files

OSRAM
Opto Semiconductors

LED	Soleriq S19
FWHM / FWTM	22.0° / 87.0°
Efficiency	94 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour/type	White

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





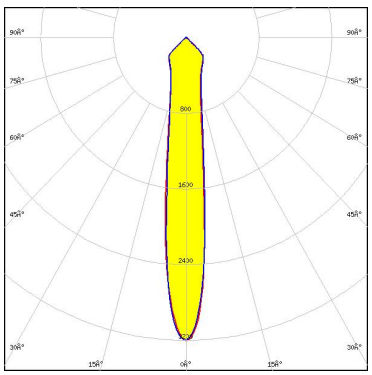
Light distribution files

PHILIPS

LED	Fortimo SLM L09 + SLM holder
FWHM / FWTM	15.0° / 70.0°
Efficiency	92 %
Peak intensity	3.2 cd/lm
LEDs/each optic	1
Light colour/type	White

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





Light distribution files

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

OPTICAL RESULTS (MEASURED):

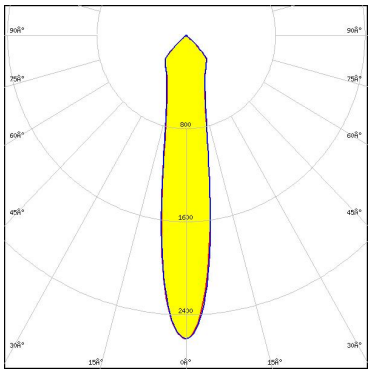
PHILIPS

LED	Fortimo SLM L13 + SLM holder
FWHM / FWTM	19.0° / 86.0°
Efficiency	92 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1





Light distribution files

PHILIPS

LED	Fortimo SLM L13 CoB
FWHM / FWTM	20.0° / 78.0°
Efficiency	94 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

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



Light distribution files

PHILIPS

LED	Fortimo SLM L13 CoB
FWHM / FWTM	23.0° / 89.0°
Efficiency	88 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

F13671_ANGE-RZ-LENS

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



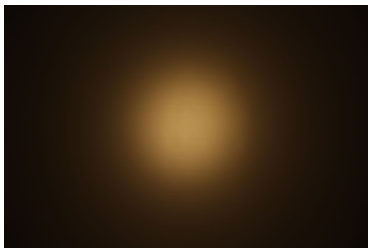
Light distribution files

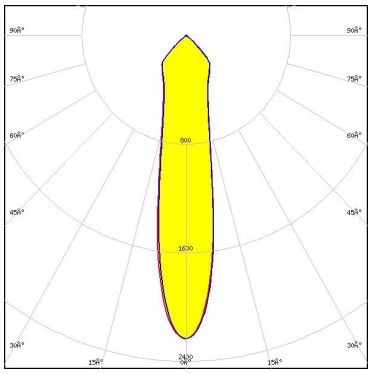
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

PHILIPS

LED	Fortimo SLM L15 + SLM holder
FWHM / FWTM	21.0° / 88.0°
Efficiency	91 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1	



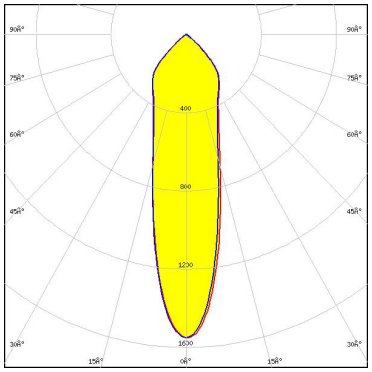


Light distribution files

PHILIPS

LED	Fortimo SLM L15 + SLM holder
FWHM / FWTM	27.0° / 93.0°
Efficiency	87 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F13671_ANGE-RZ-LENS	
TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1	



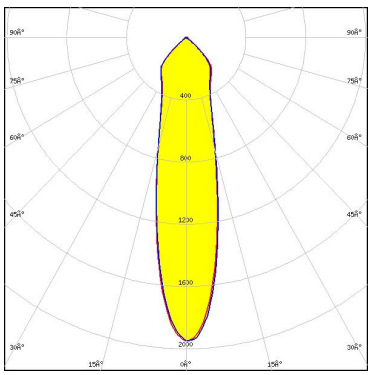


Light distribution files

PHILIPS

LED	Fortimo SLM L15 CoB
FWHM / FWTM	24.0° / 90.0°
Efficiency	88 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F13671_ANGE-RZ-LENS	
TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1	





Light distribution files

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

OPTICAL RESULTS (MEASURED):

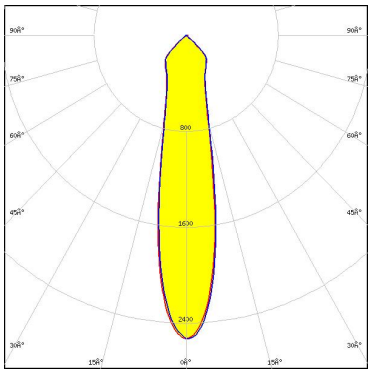
PHILIPS

LED	Fortimo SLM L15 CoB
FWHM / FWTM	22.0° / 86.0°
Efficiency	94 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

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





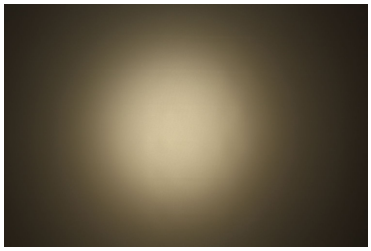
Light distribution files

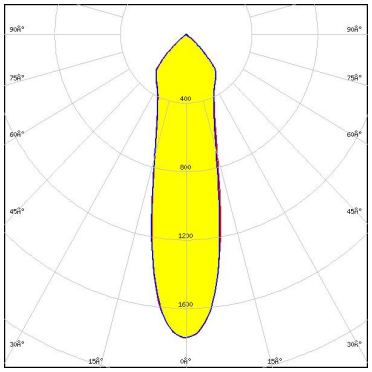
PHILIPS

LED	Fortimo SLM L19 + SLM holder
FWHM / FWTM	26.0° / 91.0°
Efficiency	90 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1





Light distribution files

SAMSUNG

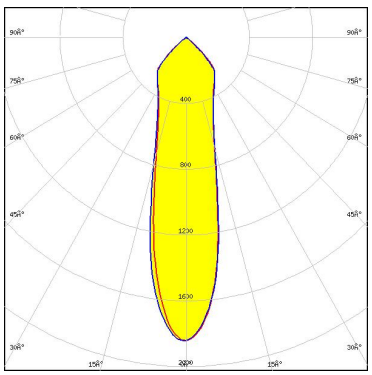
LED	LC026B / 033B / 040B
FWHM / FWTM	25.0° / 92.0°
Efficiency	92 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13658_CLAMP-VERO13-18

Bender Wirth: 450 Typ L2





Light distribution files

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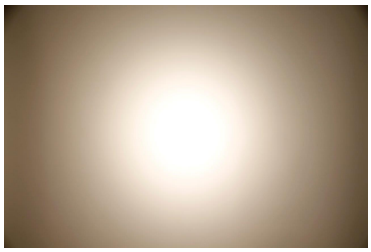
OPTICAL RESULTS (MEASURED):

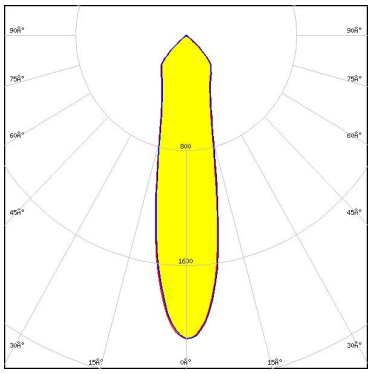
SAMSUNG

LED	LC026B / 033B / 040B
FWHM / FWTM	24.0° / 89.0°
Efficiency	93 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

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





Light distribution files

SAMSUNG

LED	LC035T (Tunable white)
FWHM / FWTM	34.0° / 95.0°
Efficiency	89 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour/type	Tunable White

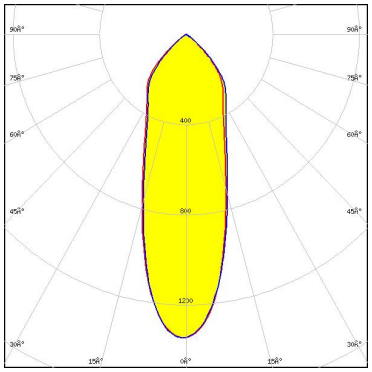
Required components:

C13584_CLAMP-VERO29

F13671_ANGE-RZ-LENS

Bender Wirth: 502 Typ L3





Light distribution files

SAMSUNG

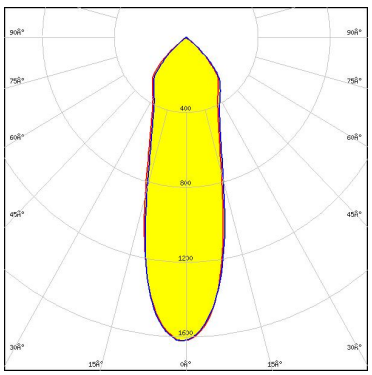
LED	LC035T (Tunable white)
FWHM / FWTM	31.0° / 93.0°
Efficiency	94 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	Tunable White

Required components:

C13584_CLAMP-VERO29

Bender Wirth: 502 Typ L3





Light distribution files

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

OPTICAL RESULTS (MEASURED):

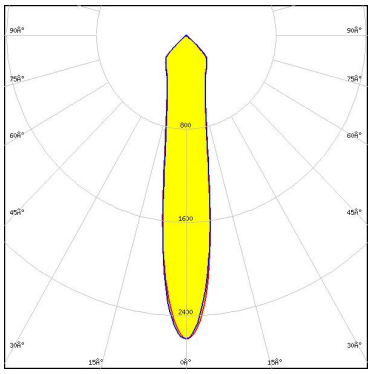
SAMSUNG

LED	LC040C
FWHM / FWTM	18.0° / 87.0°
Efficiency	92 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

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





Light distribution files

SAMSUNG

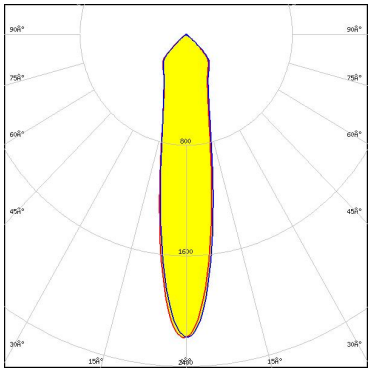
LED	LC040C
FWHM / FWTM	21.0° / 89.0°
Efficiency	89 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

F13671_ANGE-RZ-LENS

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





Light distribution files

SEOUL SEMICONDUCTOR

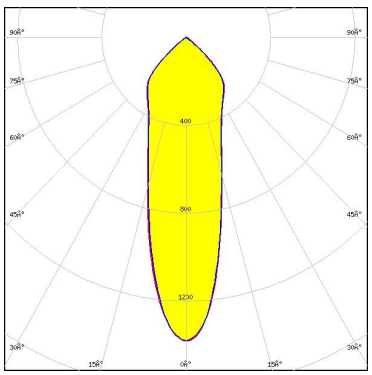
LED	AC Zhaga COB
FWHM / FWTM	30.0° / 96.0°
Efficiency	88 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

F13671_ANGE-RZ-LENS

Optosource: SEHSMJD-A





Light distribution files

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

OPTICAL RESULTS (MEASURED):

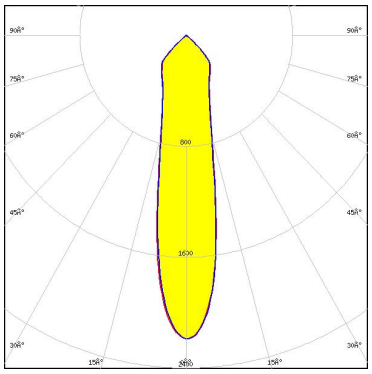
SEOUL SEMICONDUCTOR

LED	MJT COB LES 14.5
FWHM / FWTM	22.0° / 89.0°
Efficiency	93 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

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





Light distribution files

SEOUL SEMICONDUCTOR

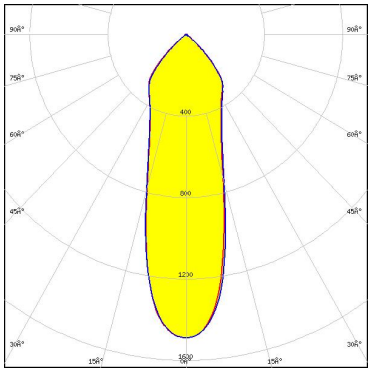
LED	MJT COB LES 22
FWHM / FWTM	30.0° / 93.0°
Efficiency	91 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13584_CLAMP-VERO29

Bender Wirth: 431 Typ L3





Light distribution files

SHARP

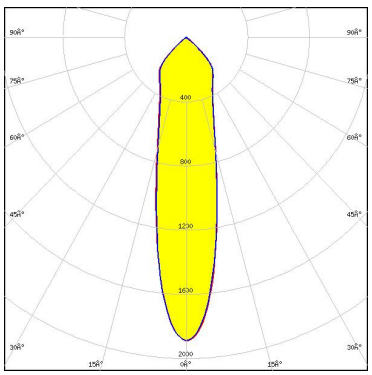
LED	Mega Zenigata (GW6DME)
FWHM / FWTM	24.0° / 91.0°
Efficiency	89 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

F13671_ANGE-RZ-LENS

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





Light distribution files

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

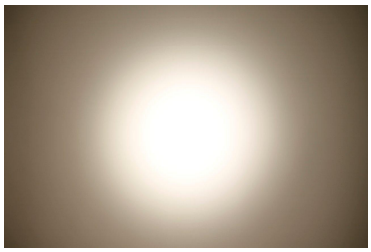
OPTICAL RESULTS (MEASURED):

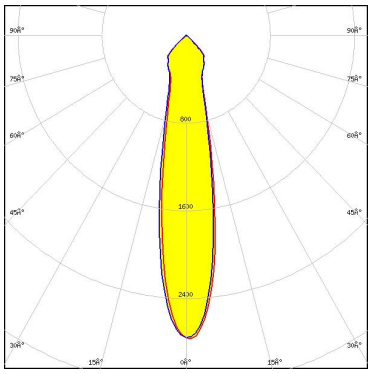
SHARP

LED	Mega Zenigata (GW6DME)
FWHM / FWTM	21.0° / 75.0°
Efficiency	92 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

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





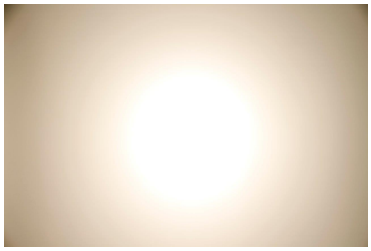
Light distribution files

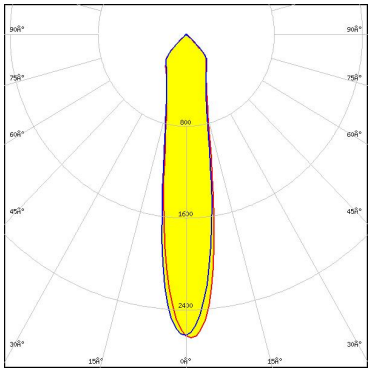
SHARP

LED	Mega Zenigata (GW6DME)
FWHM / FWTM	20.0° / 84.0°
Efficiency	94 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

IDEAL: 50-2100SH + 50-2100AN





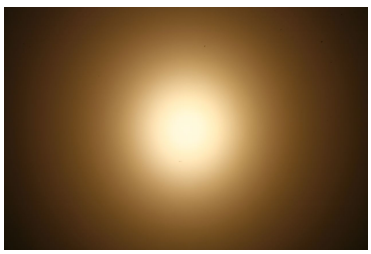
Light distribution files

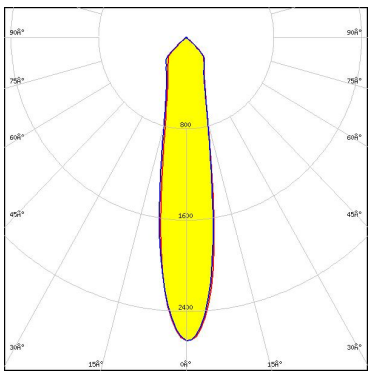
LIGHTING SOLUTIONS

LED	WU-M-461
FWHM / FWTM	20.0° / 78.0°
Efficiency	94 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1





Light distribution files

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

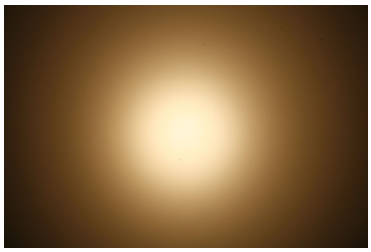
OPTICAL RESULTS (MEASURED):

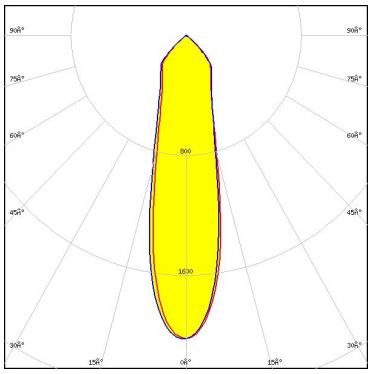
LIGHTING SOLUTIONS

LED	WU-M-462
FWHM / FWTM	26.0° / 89.0°
Efficiency	94 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1





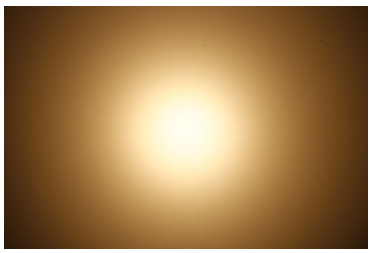
Light distribution files

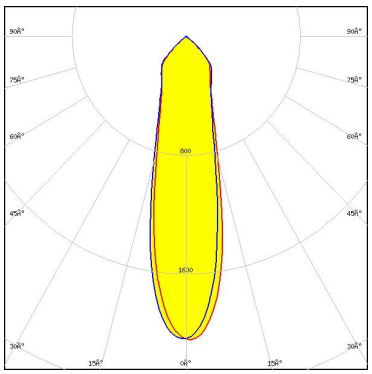
LIGHTING SOLUTIONS

LED	WU-M-464
FWHM / FWTM	26.0° / 89.0°
Efficiency	94 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1





Light distribution files

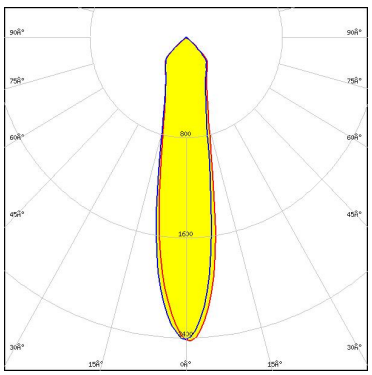
LIGHTING SOLUTIONS

LED	WU-M-484
FWHM / FWTM	21.0° / 88.0°
Efficiency	93 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1





Light distribution files

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OPTICAL RESULTS (MEASURED):

LIGHTING SOLUTIONS

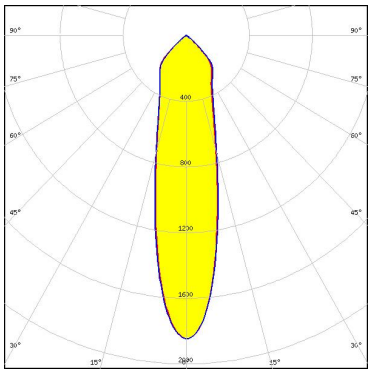
LED	WU-M-484
FWHM / FWTM	25.0° / 91.0°
Efficiency	88 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

F13671_ANGE-RZ-LENS

TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1





Light distribution files

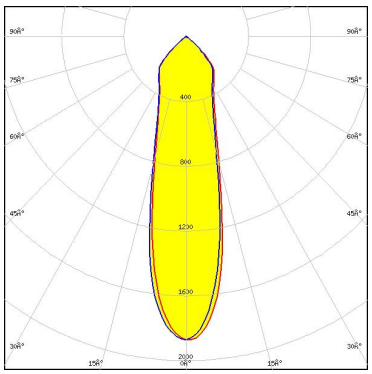
LIGHTING SOLUTIONS

LED	WU-M-485
FWHM / FWTM	27.0° / 81.0°
Efficiency	93 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1





Light distribution files

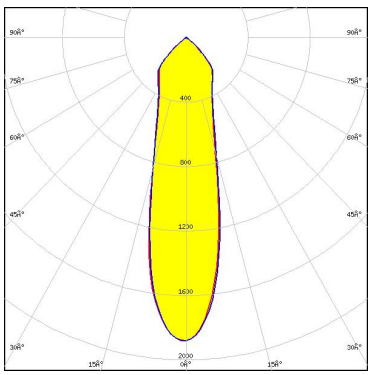
LIGHTING SOLUTIONS

LED	WU-M-486
FWHM / FWTM	26.0° / 91.0°
Efficiency	93 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1





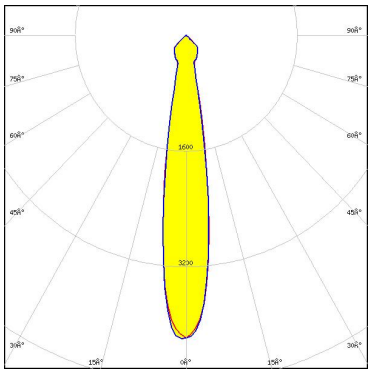
Light distribution files

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OPTICAL RESULTS (SIMULATED):

bridgelux

LED	V10 Gen7
FWHM / FWTM	17.0° / 33.0°
Efficiency	94 %
Peak intensity	4.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C13584_CLAMP-VERO29	

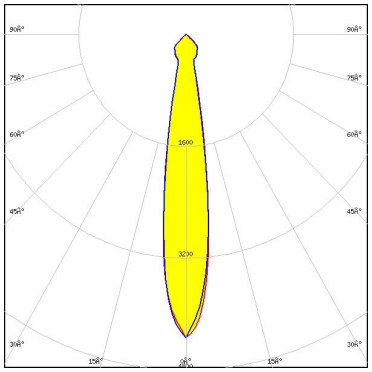


Bender Wirth: 486 Typ L1

Light distribution files

bridgelux

LED	V10 Gen7
FWHM / FWTM	17.0° / 32.0°
Efficiency	94 %
Peak intensity	4.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C13658_CLAMP-VERO13-18	

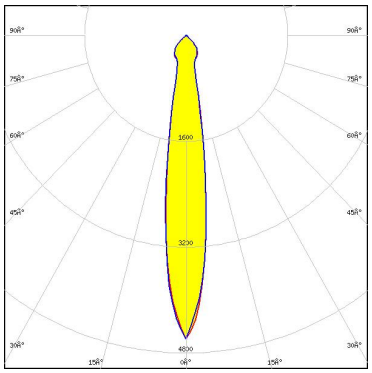


Bender Wirth: 486 Typ L1

Light distribution files

bridgelux

LED	V13 Gen7
FWHM / FWTM	16.0° / 34.0°
Efficiency	93 %
Peak intensity	4.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



IDEAL: 50-2103CT + 50-2100AN

Light distribution files

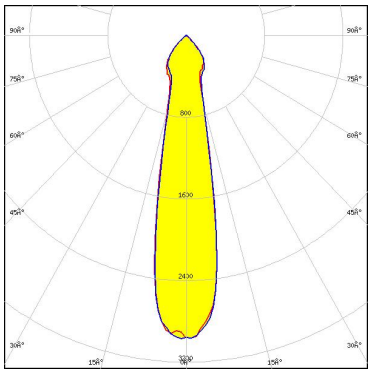
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OPTICAL RESULTS (SIMULATED):

bridgelux

LED	V22 Gen7
FWHM / FWTM	21.0° / 74.0°
Efficiency	94 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

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



Light distribution files

LUMINUS

LED	CxM-14 (19x19)
FWHM / FWTM	21.0° / 89.0°
Efficiency	92 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

C13658_CLAMP-VERO13-18

Bender Wirth: 433 Typ L1

Light distribution files

LUMINUS

LED	CxM-9 (13.5x13.5)
FWHM / FWTM	17.0° / 75.0°
Efficiency	93 %
Peak intensity	2.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

C13658_CLAMP-VERO13-18

Bender Wirth: 434 Typ L1

Light distribution files

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OPTICAL RESULTS (SIMULATED):

SEOUL SEMICONDUCTOR

LED	ZC12/18
FWHM / FWTM	21.0° / 89.0°
Efficiency	92 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C13658_CLAMP-VERO13-18	

Bender Wirth: 433 Typ L1

SEOUL SEMICONDUCTOR

LED	ZC4/6
FWHM / FWTM	17.0° / 75.0°
Efficiency	93 %
Peak intensity	2.9 cd/lm
LEDs/each optic	1
Light colour/type	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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