ANGELETTE-M-PLAIN

~50° medium beam. Clean appearance with no additional attachment interface.

SPECIFICATION:

Dimensions	Ø 110.0
Height	57.3 mm
Fastening	socket
ROHS compliant	yes

MATERIALS:

Component	Type	Material	Colour	Finish	Coating
ANGELETTE-M-PLAIN	Reflector	PC	metal	gloss	HMDS

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
F14620_ANGELETTE-M-PLAIN » Box size: 398 x 298 x 265 mm	160	80	40	7.1

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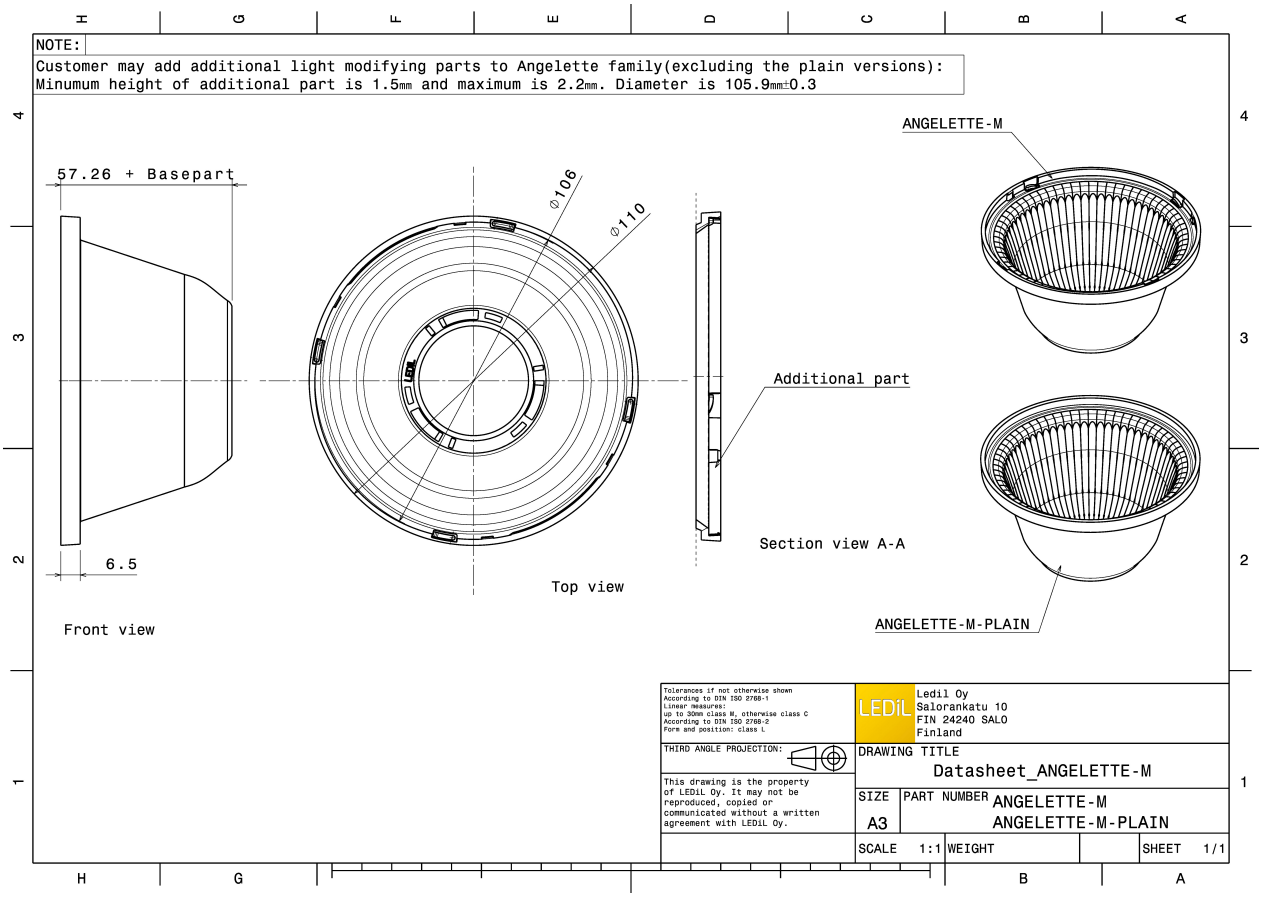

See also our general installation guide: www.ledil.com/installation_guide

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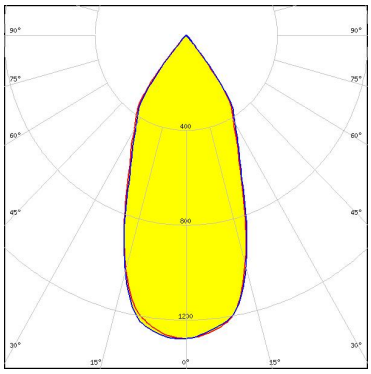
OPTICAL RESULTS (MEASURED):

bridgelux

LED	V13 Gen7
FWHM / FWTM	45.0° / 80.0°
Efficiency	89 %
Peak intensity	1.3 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

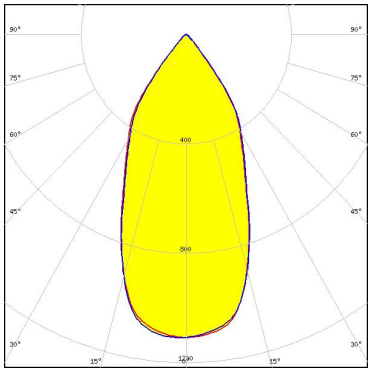
bridgelux

LED	V13 Gen7
FWHM / FWTM	49.0° / 82.0°
Efficiency	85 %
Peak intensity	1.1 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



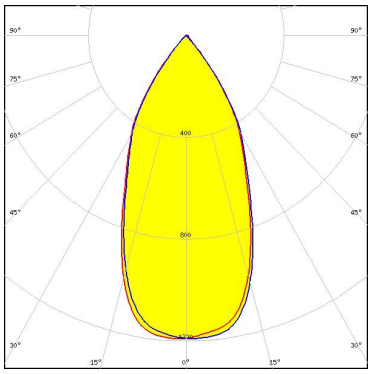
Light distribution files

bridgelux

LED	V22 Gen6
FWHM / FWTM	49.0° / 80.0°
Efficiency	88 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

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



Light distribution files

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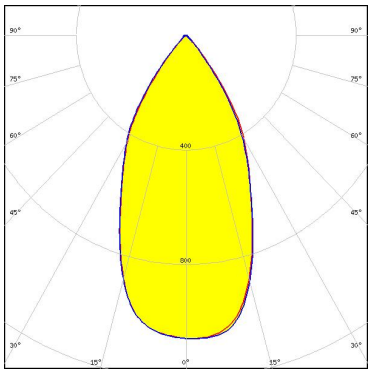
OPTICAL RESULTS (MEASURED):

bridgelux

LED	V22 Gen6
FWHM / FWTM	51.0° / 82.0°
Efficiency	84 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White

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

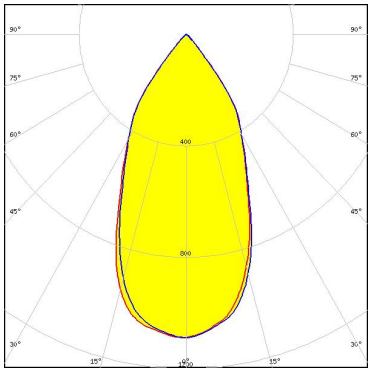


Light distribution files

bridgelux

LED	VERO13
FWHM / FWTM	50.0° / 82.0°
Efficiency	84 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White

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

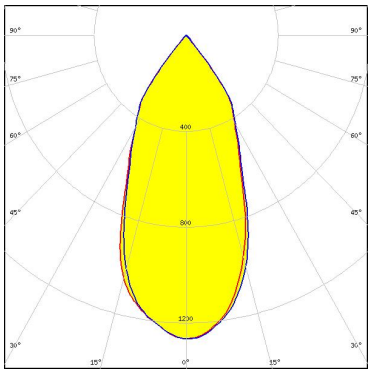


Light distribution files

bridgelux

LED	VERO13
FWHM / FWTM	46.0° / 80.0°
Efficiency	88 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13658_CLAMP-VERO13-18



Light distribution files

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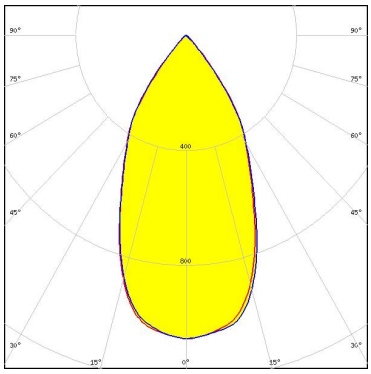
OPTICAL RESULTS (MEASURED):

bridgelux

LED	VERO18
FWHM / FWTM	52.0° / 83.0°
Efficiency	84 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White

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

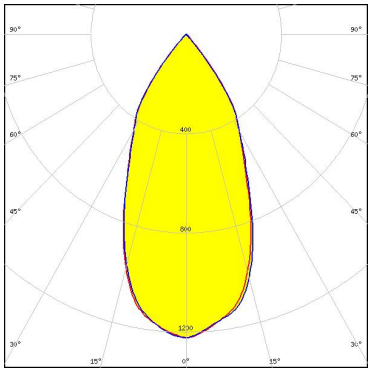


Light distribution files

bridgelux

LED	VERO18
FWHM / FWTM	48.0° / 81.0°
Efficiency	88 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13658_CLAMP-VERO13-18

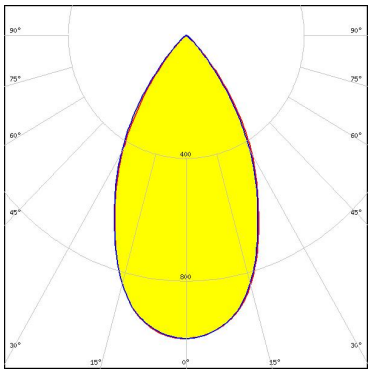


Light distribution files

bridgelux

LED	VERO29
FWHM / FWTM	56.0° / 86.0°
Efficiency	85 %
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

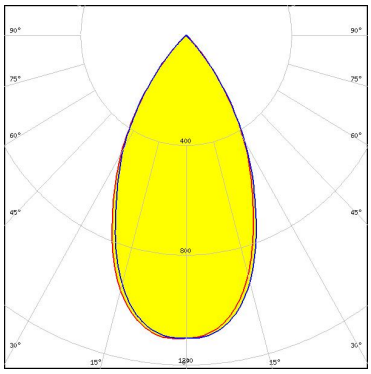
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

bridgelux

LED	VERO29
FWHM / FWTM	54.0° / 84.0°
Efficiency	89 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C13584_CLAMP-VERO29

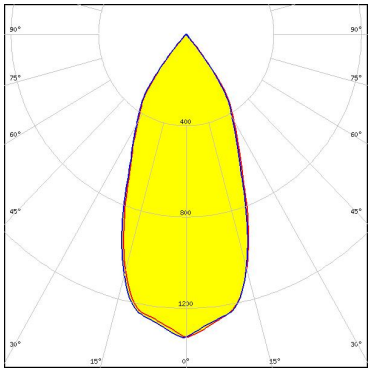


Light distribution files

bridgelux

LED	Vesta TW 15mm DP
FWHM / FWTM	46.0° / 80.0°
Efficiency	90 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour/type	Tunable White

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

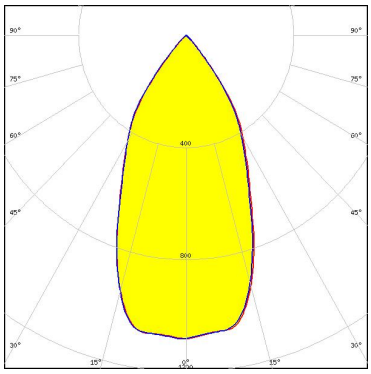


Light distribution files

bridgelux

LED	Vesta TW 15mm DP
FWHM / FWTM	51.0° / 82.0°
Efficiency	85 %
Peak intensity	1.1 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

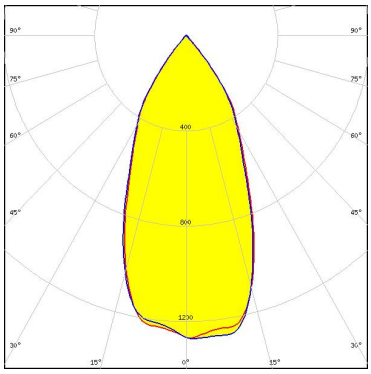
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

bridgelux

LED	Vesta TW 18mm (31W) DP
FWHM / FWTM	47.0° / 80.0°
Efficiency	90 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour/type	Tunable White

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

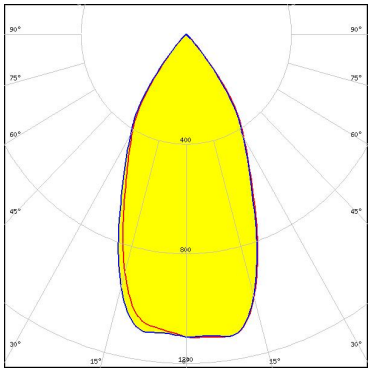


Light distribution files

bridgelux

LED	Vesta TW 18mm (31W) DP
FWHM / FWTM	50.0° / 82.0°
Efficiency	85 %
Peak intensity	1.1 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

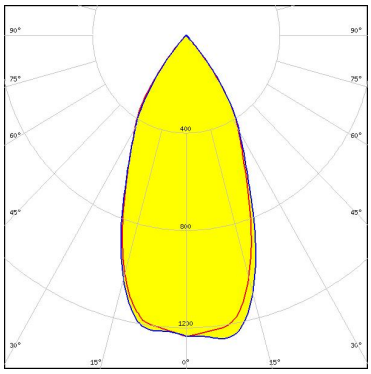


Light distribution files

bridgelux

LED	Vesta TW 22mm DP
FWHM / FWTM	48.0° / 80.0°
Efficiency	90 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour/type	Tunable White

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



Light distribution files

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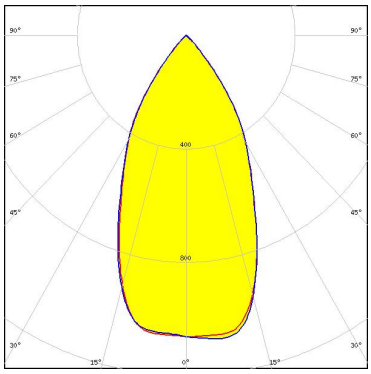
OPTICAL RESULTS (MEASURED):

bridgelux

LED	Vesta TW 22mm DP
FWHM / FWTM	52.0° / 83.0°
Efficiency	85 %
Peak intensity	1.1 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

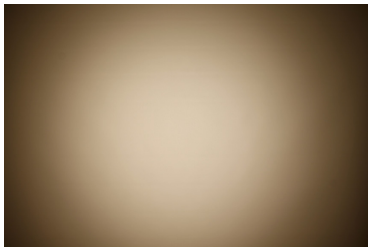


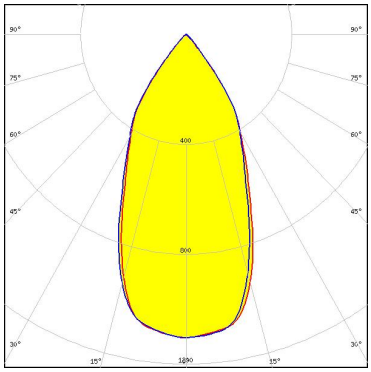
Light distribution files

CITIZEN

LED	CLU03x
FWHM / FWTM	49.0° / 81.0°
Efficiency	83 %
Peak intensity	1.1 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



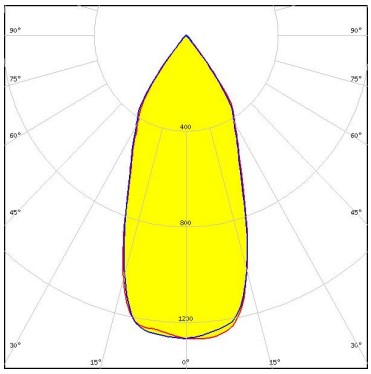


Light distribution files

CITIZEN

LED	CLU03x
FWHM / FWTM	45.0° / 78.0°
Efficiency	87 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour/type	White

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



Light distribution files

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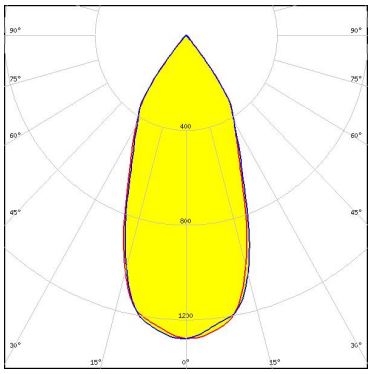
OPTICAL RESULTS (MEASURED):

CITIZEN

LED	CLU03x
FWHM / FWTM	45.0° / 79.0°
Efficiency	88 %
Peak intensity	1.3 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

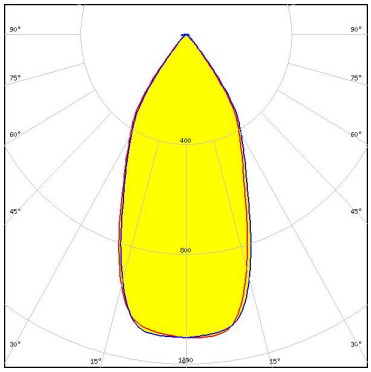
CITIZEN

LED	CLU03x
FWHM / FWTM	49.0° / 80.0°
Efficiency	83 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

F13671_ANGE-RZ-LENS

IDEAL: 50-2103CT + 50-2100AN



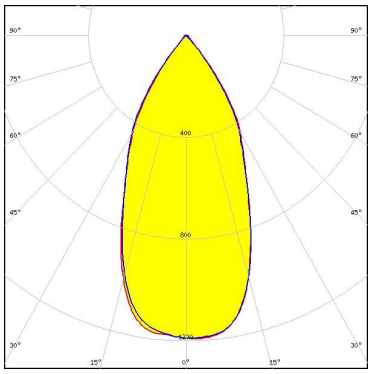
Light distribution files

CITIZEN

LED	CLU04x
FWHM / FWTM	49.0° / 80.0°
Efficiency	88 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

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



Light distribution files

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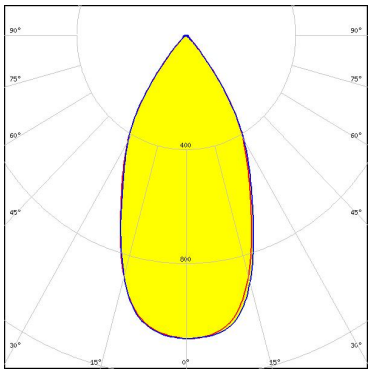
OPTICAL RESULTS (MEASURED):

CITIZEN

LED	CLU04x
FWHM / FWTM	51.0° / 82.0°
Efficiency	84 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White

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

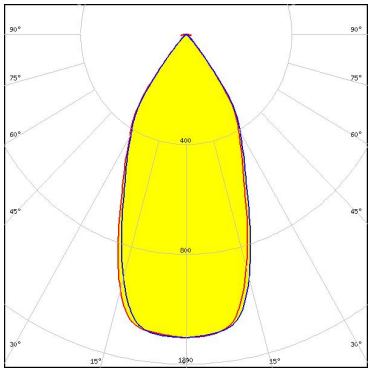


Light distribution files

CITIZEN

LED	CLU730/731/733
FWHM / FWTM	48.0° / 80.0°
Efficiency	83 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White

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

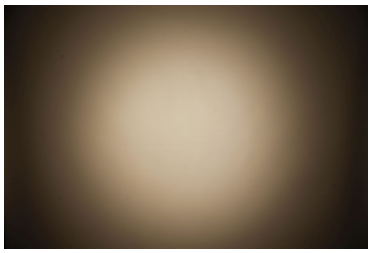


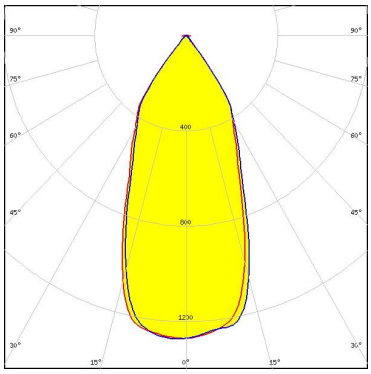
Light distribution files

CITIZEN

LED	CLU730/731/733
FWHM / FWTM	45.0° / 78.0°
Efficiency	87 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour/type	White

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





Light distribution files

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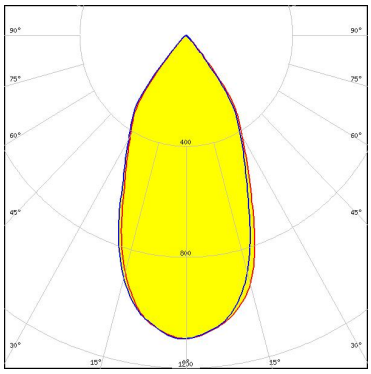
OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	CXA/B 15xx
FWHM / FWTM	50.0° / 82.0°
Efficiency	85 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C14123_CLAMP-CXA15-18
- F13671_ANGE-RZ-LENS

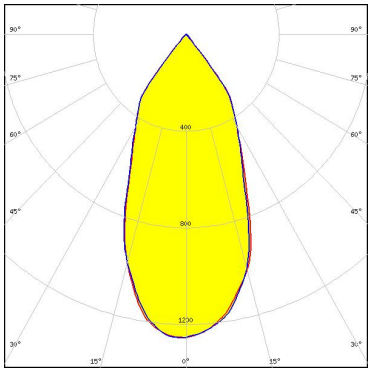


Light distribution files

CREE LEDs

LED	CXA/B 15xx
FWHM / FWTM	46.0° / 80.0°
Efficiency	89 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C14123_CLAMP-CXA15-18

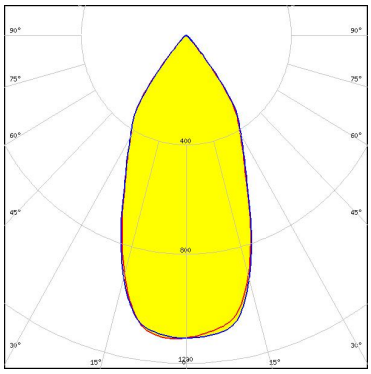


Light distribution files

CREE LEDs

LED	CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM / FWTM	49.0° / 82.0°
Efficiency	85 %
Peak intensity	1.1 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



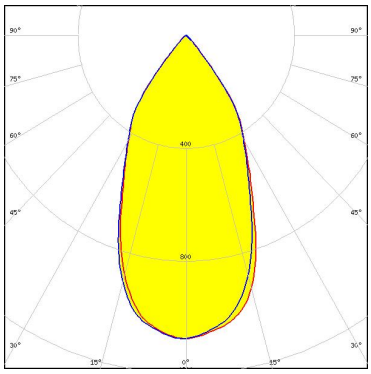
Light distribution files

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

OPTICAL RESULTS (MEASURED):

LED	CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM / FWTM	51.0° / 83.0°
Efficiency	85 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White

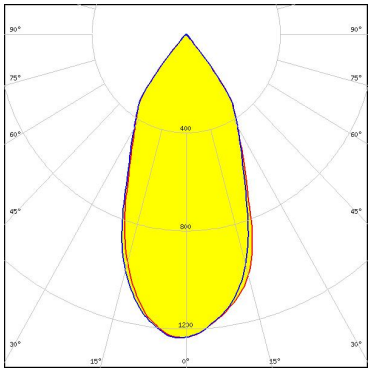
Required components:
C14123_CLAMP-CXA15-18
F13671_ANGE-RZ-LENS



Light distribution files

LED	CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM / FWTM	47.0° / 80.0°
Efficiency	89 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	White

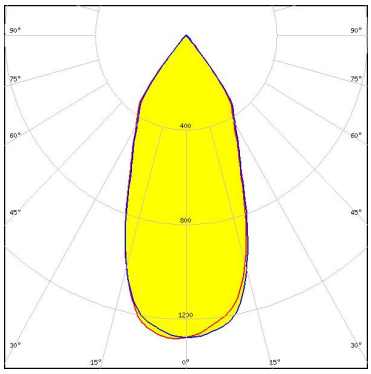
Required components:
C14123_CLAMP-CXA15-18



Light distribution files

LED	CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM / FWTM	45.0° / 80.0°
Efficiency	89 %
Peak intensity	1.3 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

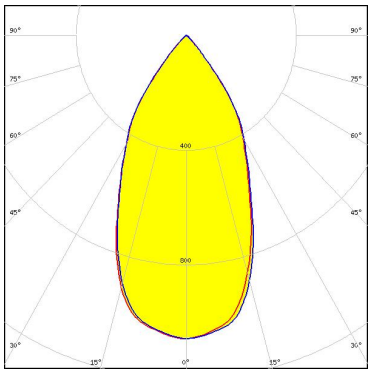
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	CXA/B 25xx
FWHM / FWTM	52.0° / 83.0°
Efficiency	84 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C14036_CLAMP_CXA25-30
F13671_ANGE-RZ-LENS

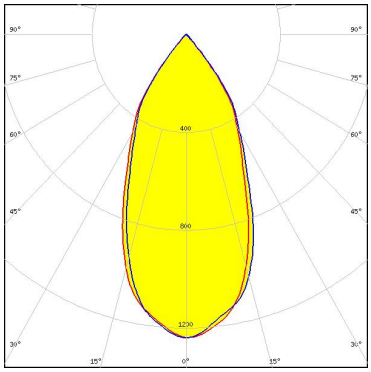


Light distribution files

CREE LEDs

LED	CXA/B 25xx
FWHM / FWTM	47.0° / 81.0°
Efficiency	88 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C14036_CLAMP_CXA25-30

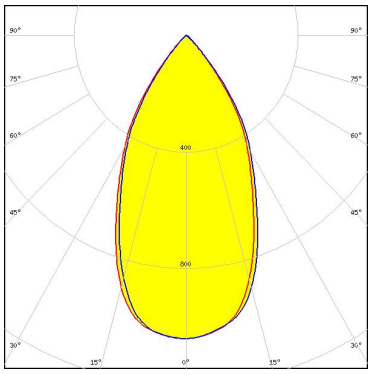


Light distribution files

CREE LEDs

LED	CXA/B 30xx
FWHM / FWTM	53.0° / 84.0°
Efficiency	85 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C14036_CLAMP_CXA25-30
F13671_ANGE-RZ-LENS



Light distribution files

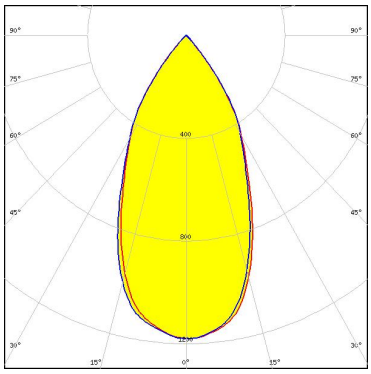
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	CXA/B 30xx
FWHM / FWTM	50.0° / 82.0°
Efficiency	89 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C14036_CLAMP_CXA25-30

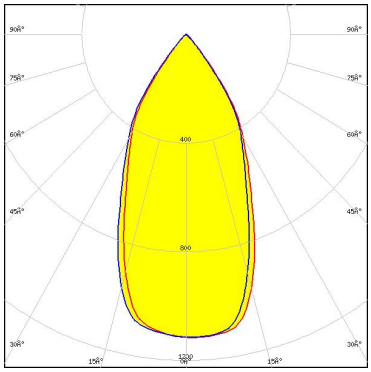


Light distribution files

inventronics

LED	PrevaLED Core Z4 LES19
FWHM / FWTM	49.0° / 81.0°
Efficiency	84 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
F13671_ANGE-RZ-LENS
TE Connectivity: 2213130-2

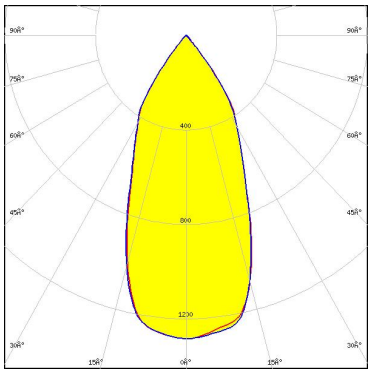


Light distribution files

inventronics

LED	PrevaLED Core Z4 LES19
FWHM / FWTM	46.0° / 79.0°
Efficiency	88 %
Peak intensity	1.3 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.

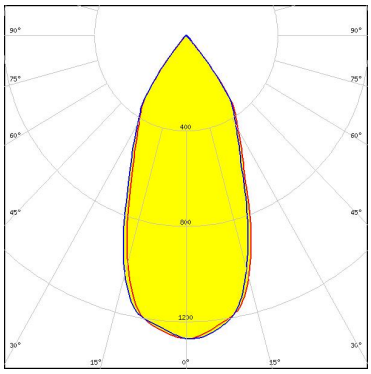
OPTICAL RESULTS (MEASURED):

LUMILEDS

LED	LUXEON CoB 1208
FWHM / FWTM	45.0° / 78.0°
Efficiency	88 %
Peak intensity	1.3 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

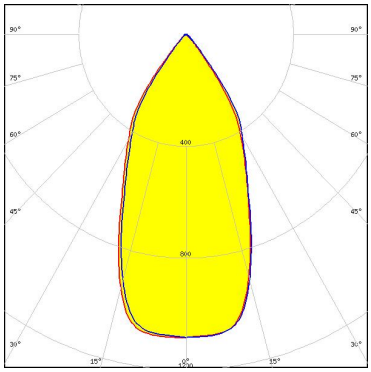
LUMILEDS

LED	LUXEON CoB 1208
FWHM / FWTM	49.0° / 80.0°
Efficiency	83 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

F13671_ANGE-RZ-LENS

IDEAL: 50-2100SH + 50-2100AN



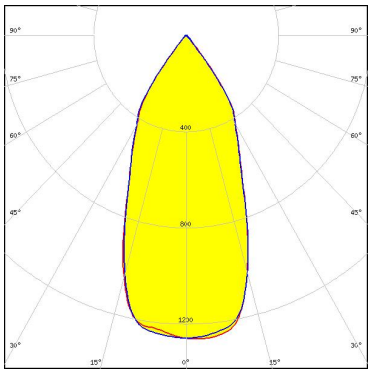
Light distribution files

LUMILEDS

LED	LUXEON CoB 1208
FWHM / FWTM	45.0° / 78.0°
Efficiency	88 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

IDEAL: 50-2100SH + 50-2100AN



Light distribution files

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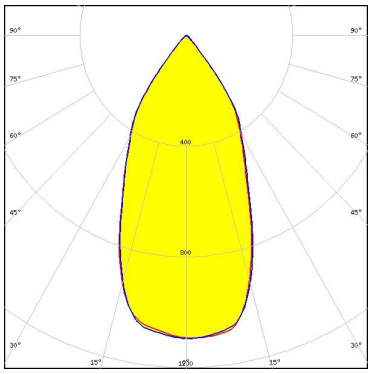
OPTICAL RESULTS (MEASURED):

LUMILEDS

LED	LUXEON CoB 1208
FWHM / FWTM	49.0° / 81.0°
Efficiency	83 %
Peak intensity	1.1 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

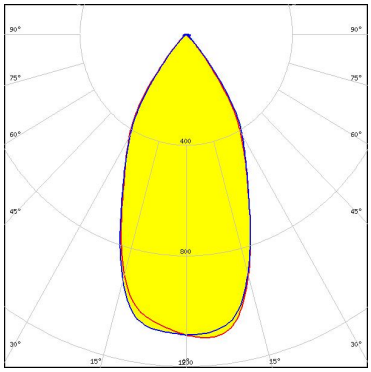


Light distribution files

LUMILEDS

LED	LUXEON CoB 1211
FWHM / FWTM	50.0° / 81.0°
Efficiency	84 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White

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

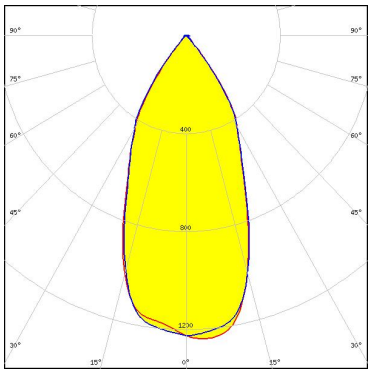


Light distribution files

LUMILEDS

LED	LUXEON CoB 1211
FWHM / FWTM	47.0° / 79.0°
Efficiency	88 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	White

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



Light distribution files

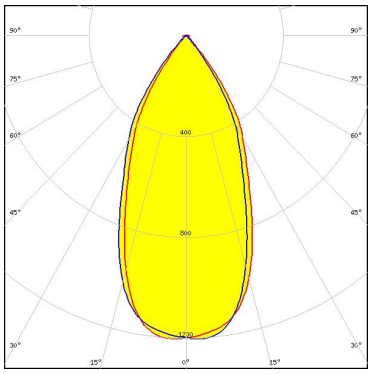
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

LUMILEDS

LED	LUXEON CoB 1213/1216/1812
FWHM / FWTM	48.0° / 80.0°
Efficiency	88 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	White

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

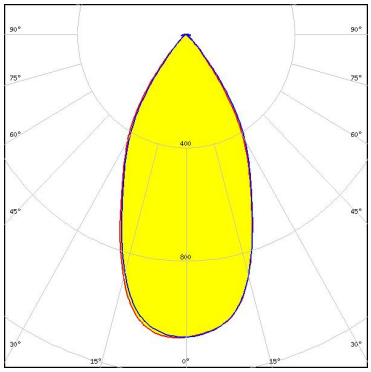


Light distribution files

LUMILEDS

LED	LUXEON CoB 1213/1216/1812
FWHM / FWTM	51.0° / 82.0°
Efficiency	84 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White

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

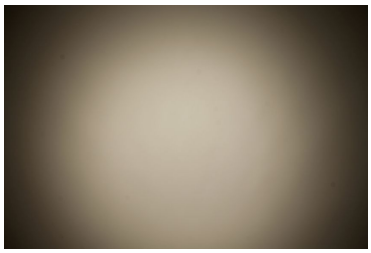


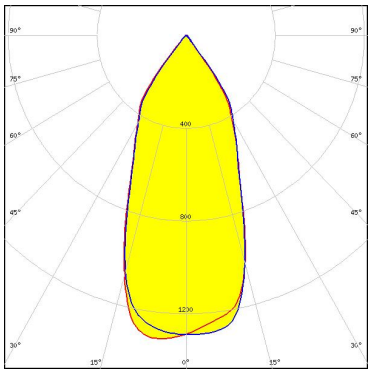
Light distribution files

NICHIA

LED	COB L-Type (LES 11)
FWHM / FWTM	44.0° / 78.0°
Efficiency	87 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour/type	White

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





Light distribution files

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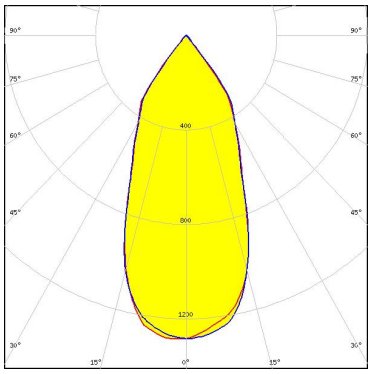
OPTICAL RESULTS (MEASURED):

NICHIA

LED	COB L-Type (LES 11)
FWHM / FWTM	45.0° / 79.0°
Efficiency	88 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour/type	White

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

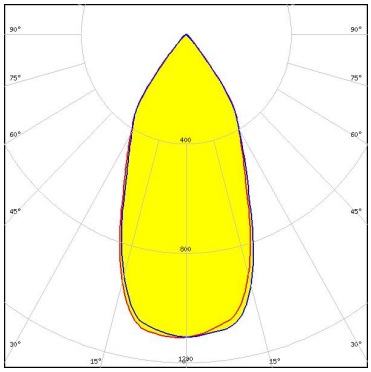


Light distribution files

OSRAM
Opto Semiconductors

LED	Soleriq S13 19x19
FWHM / FWTM	49.0° / 81.0°
Efficiency	84 %
Peak intensity	1.1 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

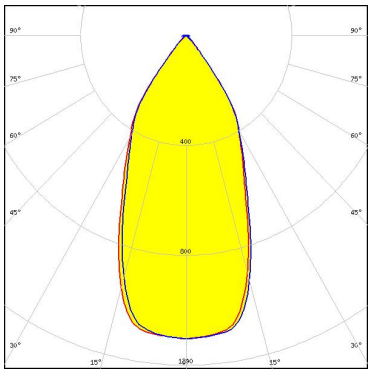


Light distribution files

OSRAM
Opto Semiconductors

LED	Soleriq S13 19x19
FWHM / FWTM	48.0° / 80.0°
Efficiency	83 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White

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



Light distribution files

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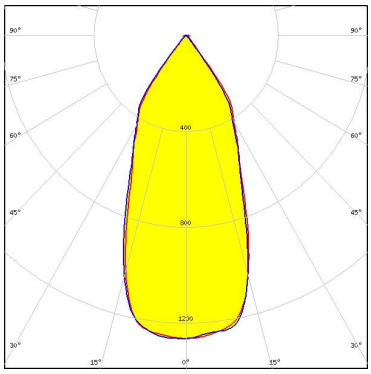
OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

LED	Soleriq S13 19x19
FWHM / FWTM	45.0° / 78.0°
Efficiency	87 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour/type	White

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

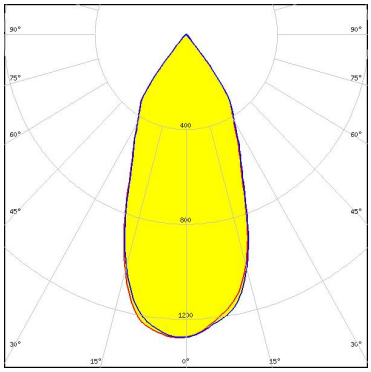


Light distribution files

OSRAM
Opto Semiconductors

LED	Soleriq S13 19x19
FWHM / FWTM	45.0° / 79.0°
Efficiency	87 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour/type	White

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

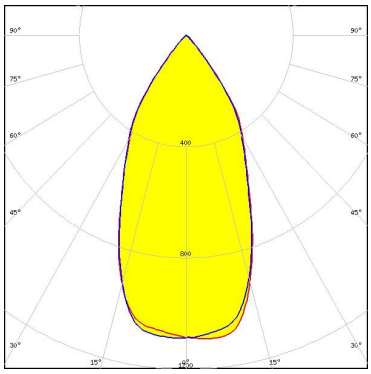


Light distribution files

OSRAM
Opto Semiconductors

LED	Soleriq S19
FWHM / FWTM	50.0° / 82.0°
Efficiency	84 %
Peak intensity	1.1 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

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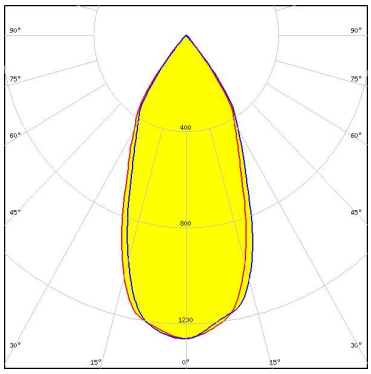
OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

LED	Soleriq S19
FWHM / FWTM	46.0° / 80.0°
Efficiency	88 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

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



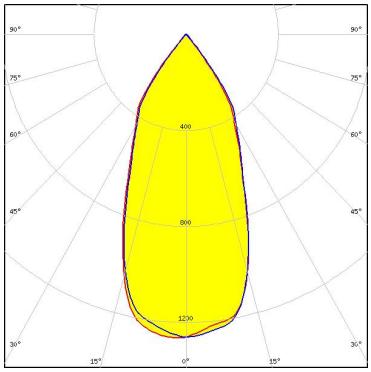
Light distribution files

PHILIPS

LED	Fortimo SLM L15 + SLM holder
FWHM / FWTM	46.0° / 79.0°
Efficiency	88 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



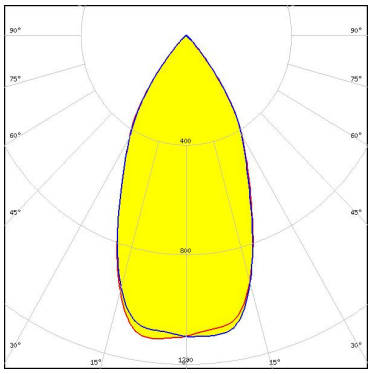
Light distribution files

SAMSUNG

LED	LC035T (Tunable white)
FWHM / FWTM	51.0° / 82.0°
Efficiency	85 %
Peak intensity	1.1 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

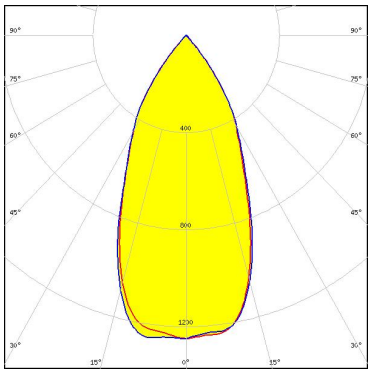
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

SAMSUNG

LED	LC035T (Tunable white)
FWHM / FWTM	48.0° / 81.0°
Efficiency	90 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour/type	Tunable White

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

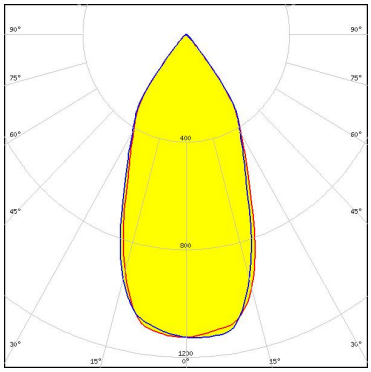


Light distribution files

SAMSUNG

LED	LC040C
FWHM / FWTM	48.0° / 81.0°
Efficiency	84 %
Peak intensity	1.1 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

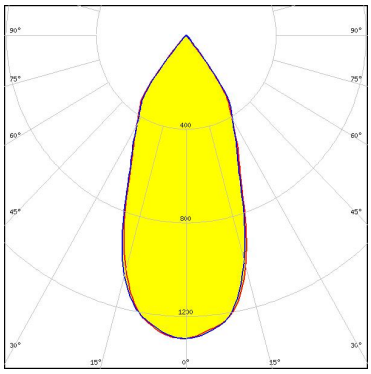


Light distribution files

SAMSUNG

LED	LC040C
FWHM / FWTM	45.0° / 79.0°
Efficiency	88 %
Peak intensity	1.3 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

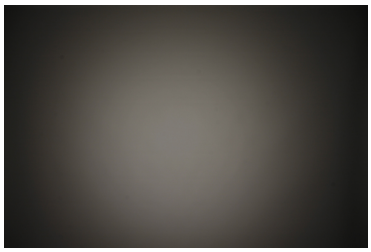
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

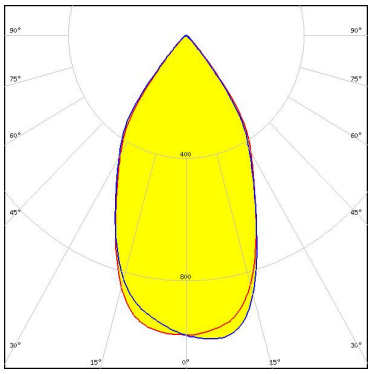
OPTICAL RESULTS (MEASURED):

SEOUL SEMICONDUCTOR

LED	AC Zhaga COB
FWHM / FWTM	55.0° / 84.0°
Efficiency	84 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White

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



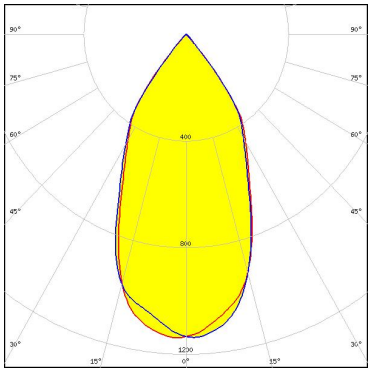


Light distribution files

SEOUL SEMICONDUCTOR

LED	AC Zhaga COB
FWHM / FWTM	51.0° / 81.0°
Efficiency	88 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
Optosource: SEHSMJD-A

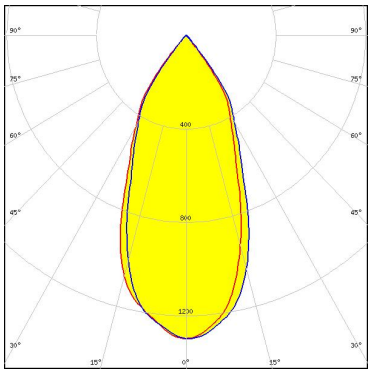


Light distribution files

LIGHTING SOLUTIONS

LED	WU-M-484
FWHM / FWTM	45.0° / 79.0°
Efficiency	87 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour/type	White

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



Light distribution files

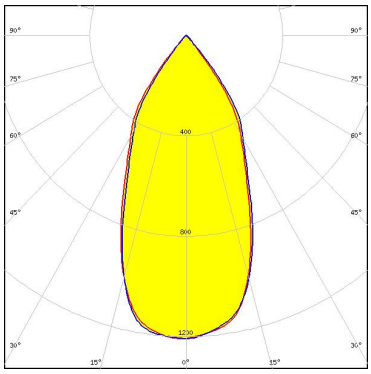
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

XICATO

LED	XIM - 19mm LES
FWHM / FWTM	49.0° / 81.0°
Efficiency	89 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C16491_XTM-ADAPTER-50-A



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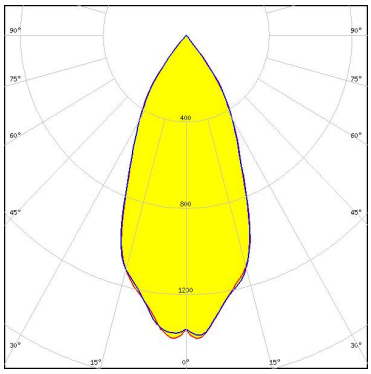
OPTICAL RESULTS (SIMULATED):

bridgelux

LED	V13 Gen7
FWHM / FWTM	46.0° / 78.0°
Efficiency	91 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C13658_CLAMP-VERO13-18	



Bender Wirth: 477 Typ L1

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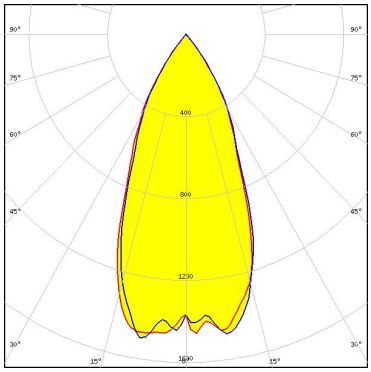
bridgelux

LED	V22 Gen7
FWHM / FWTM	45.0° / 75.0°
Efficiency	94 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



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

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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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