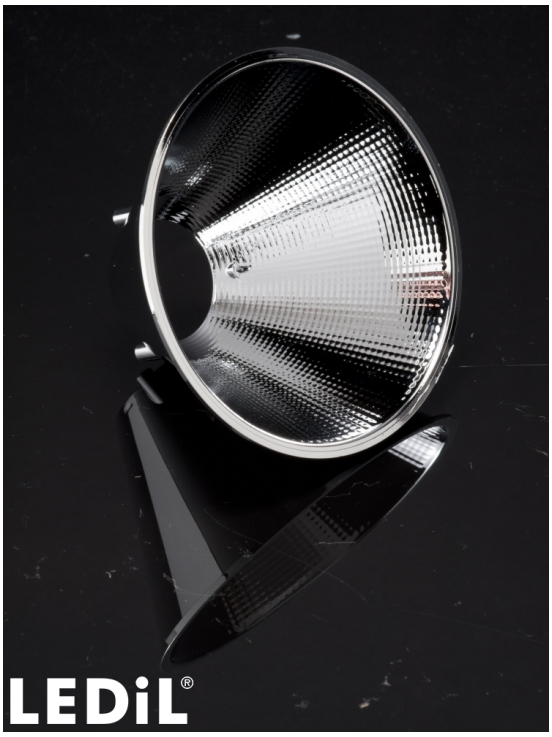
BARBARA-W-PF

~35° wide beam



TECHNICAL SPECIFICATIONS:

Dimensions	Ø 70.0 mm
Height	41.7 mm
Fastening	socket
ROHS compliant	yes

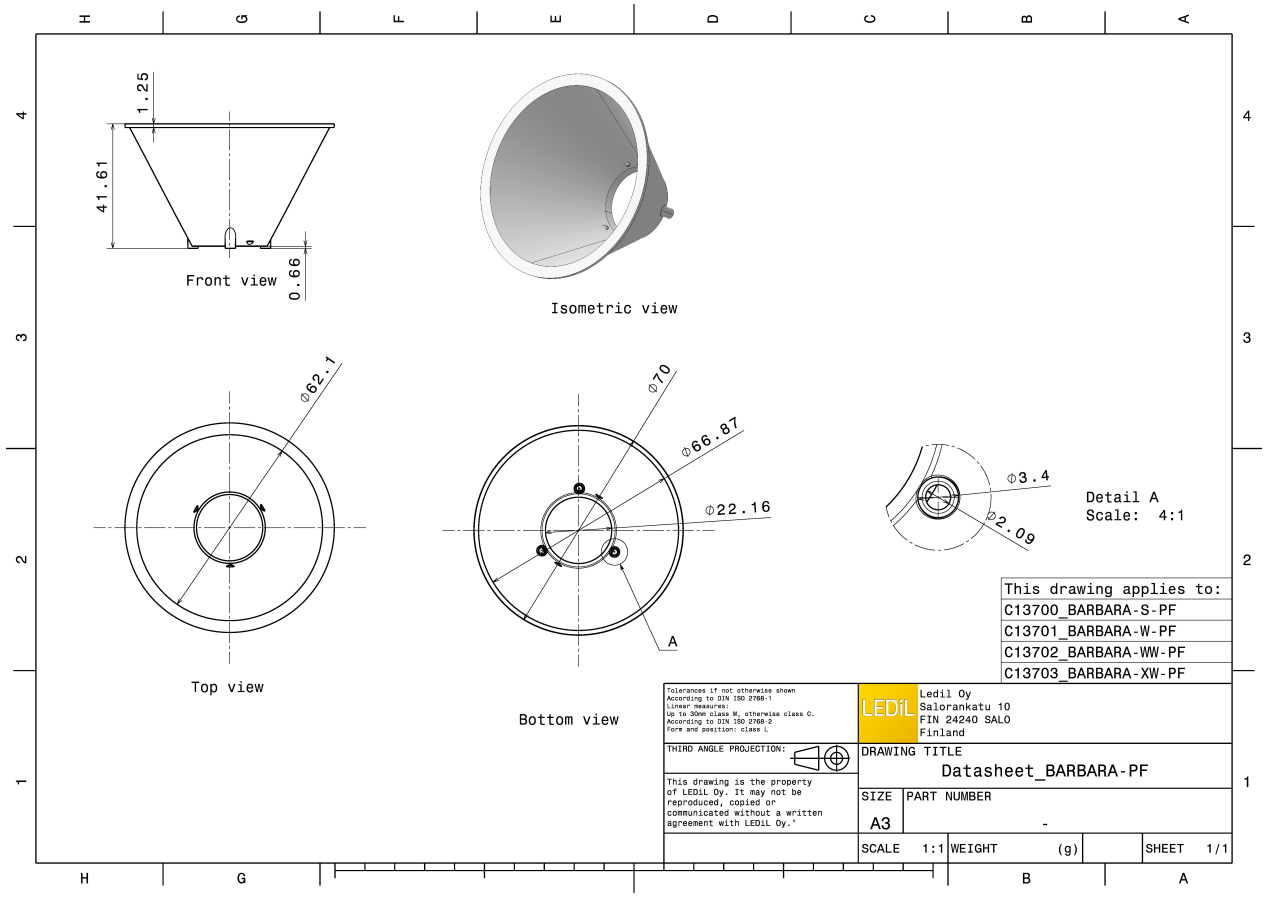
MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish	Coating
BARBARA-W-PF	Reflector	PC	metal		HMDS

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
F13701_BARBARA-W-PF » Box size: 480 x 280 x 300 mm	288	90	18	7.7

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

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

PHOTOMETRIC DATA (MEASURED):

bridgelux

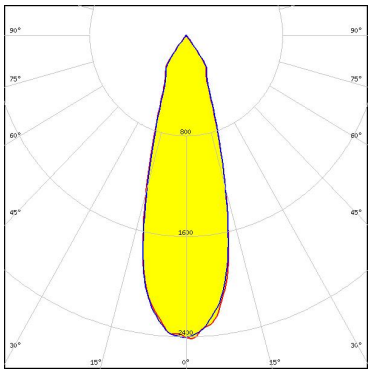
LED	V10 Gen7
FWHM / FWTM	31.0° / 70.0°
Efficiency	90 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 434 Typ L1





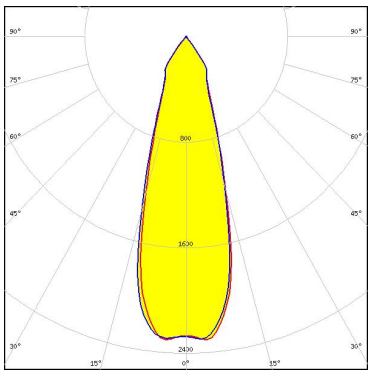
bridgelux

LED	VERO10
FWHM / FWTM	31.0° / 71.0°
Efficiency	91 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C13708_PF-SOCKET-VERO10



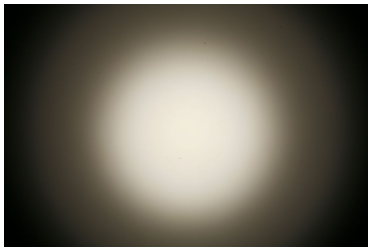


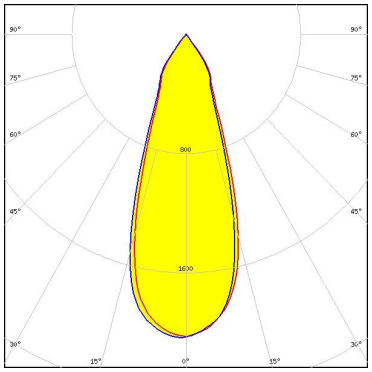
bridgelux

LED	VERO13
FWHM / FWTM	36.0° / 72.0°
Efficiency	93 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C13709_PF-SOCKET-VERO13-18



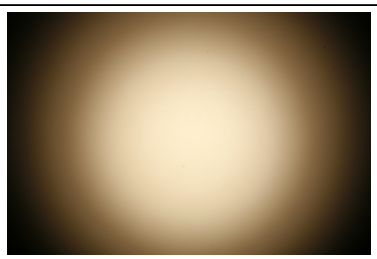


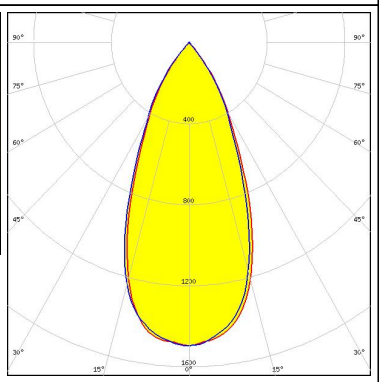
bridgelux

LED	VERO18
FWHM / FWTM	45.0° / 76.0°
Efficiency	92 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C13709_PF-SOCKET-VERO13-18





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PHOTOMETRIC DATA (MEASURED):

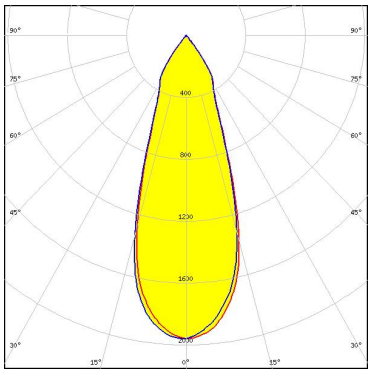
bridgelux

LED	Xenio Point 13mm
FWHM / FWTM	36.0° / 73.0°
Efficiency	91 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C13709_PF-SOCKET-VERO13-18





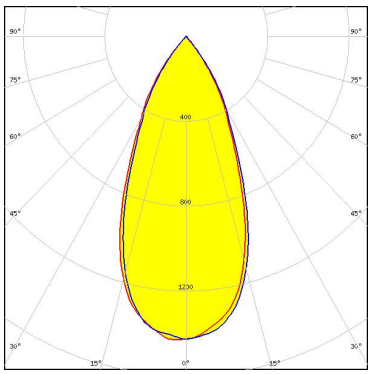
bridgelux

LED	Xenio Point 18mm
FWHM / FWTM	46.0° / 77.0°
Efficiency	89 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C13709_PF-SOCKET-VERO13-18





CITIZEN

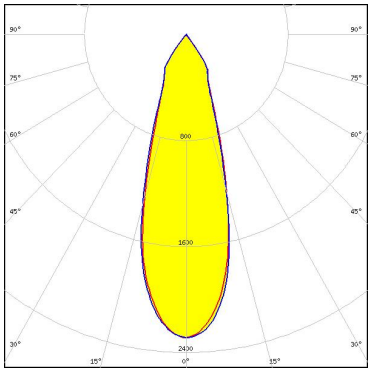
LED	CLL02x/CLU02x (LES10)
FWHM / FWTM	32.0° / 71.0°
Efficiency	88 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 434 Typ L1





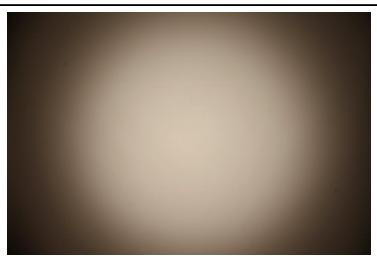
CITIZEN

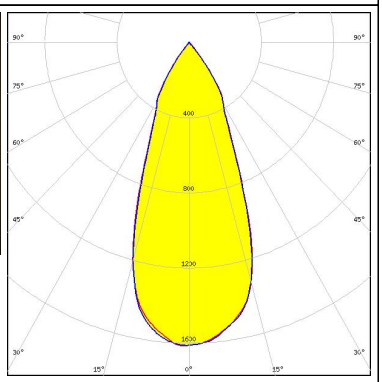
LED	CLL03x/CLU03x
FWHM / FWTM	41.0° / 73.0°
Efficiency	87 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 433 Typ L1





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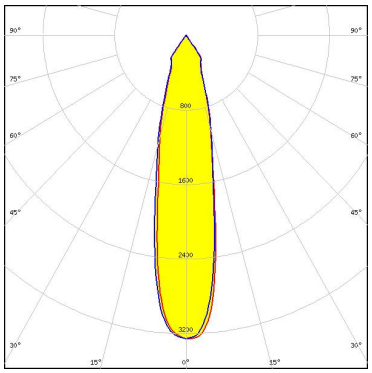
PHOTOMETRIC DATA (MEASURED):

CITIZEN

LED	CLU700/701/702
FWHM / FWTM	22.0° / 61.0°
Efficiency	89 %
Peak intensity	3.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13709_PF-SOCKET-VERO13-18
- Bender Wirth: 434 Typ L1

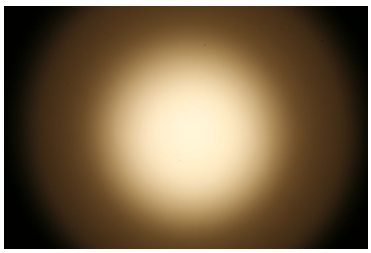


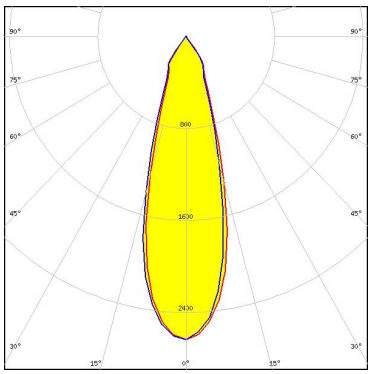


CREE LED

LED	CXA/B 15xx
FWHM / FWTM	30.0° / 69.0°
Efficiency	91 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C14115_PF-SOCKET-CXA15-18



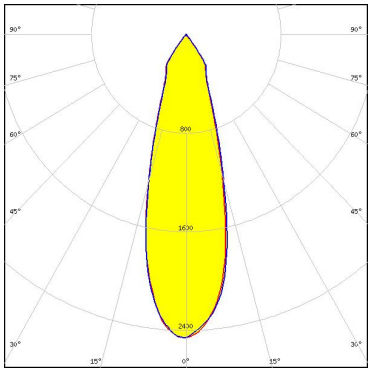


CREE LED

LED	CXA/B 15xx
FWHM / FWTM	30.0° / 70.0°
Efficiency	88 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13709_PF-SOCKET-VERO13-18
- Bender Wirth: 441 Typ L1

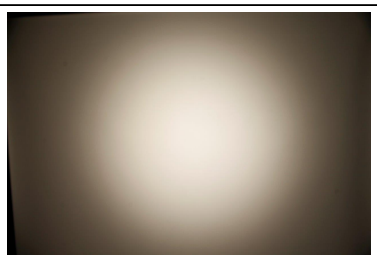


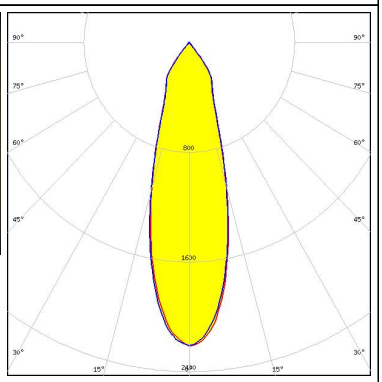


CREE LED

LED	CXA/B 15xx
FWHM / FWTM	30.0° / 73.0°
Efficiency	85 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13083_PF-SOCKET
- C14658_BARBARA-RZ-LENS





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PHOTOMETRIC DATA (MEASURED):

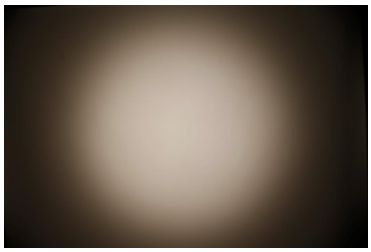
CREE LED

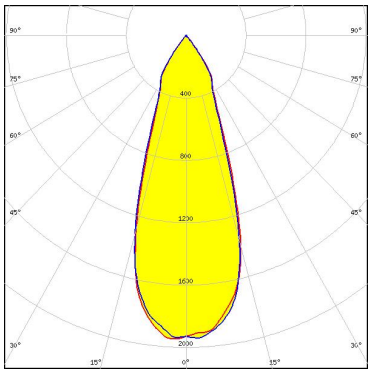
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM / FWTM	36.0° / 72.0°
Efficiency	88 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 437 Typ L1





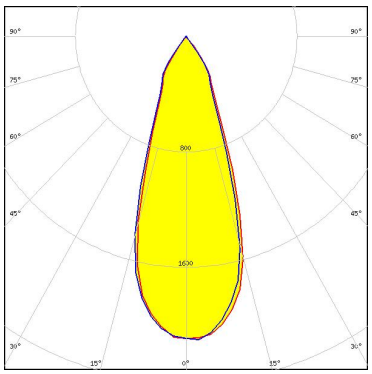
CREE LED

LED	CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM / FWTM	36.0° / 71.0°
Efficiency	94 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C14115_PF-SOCKET-CXA15-18





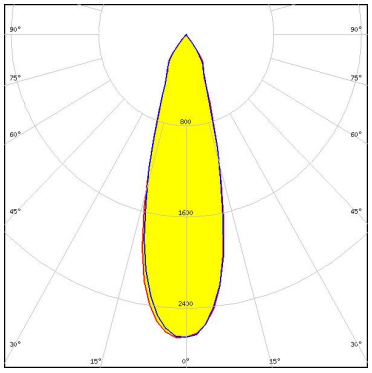
LUMILEDS

LED	LUXEON CoB 1202/1203
FWHM / FWTM	30.0° / 68.0°
Efficiency	91 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C14037_PF-NSX-SOCKET





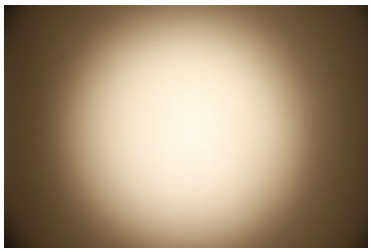
LUMILEDS

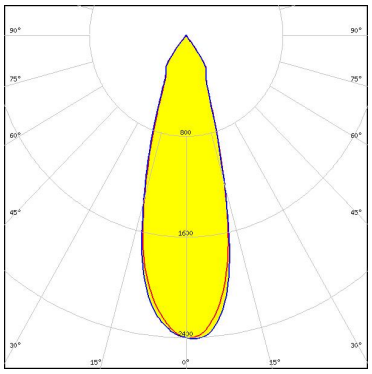
LED	LUXEON CoB 1202/1203
FWHM / FWTM	31.0° / 70.0°
Efficiency	90 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 438 Typ L1





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PHOTOMETRIC DATA (MEASURED):

LUMILEDS

LED	LUXEON CoB 1202s
FWHM / FWTM	20.0° / 52.0°
Efficiency	92 %
Peak intensity	4.1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C13761_PF-SOCKET-CXA15



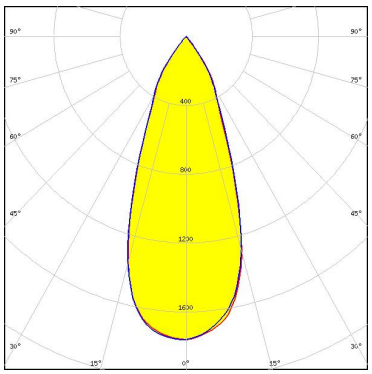
NICHIA

LED	COB J-Type
FWHM / FWTM	41.0° / 74.0°
Efficiency	92 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C14037_PF-NSX-SOCKET





NICHIA

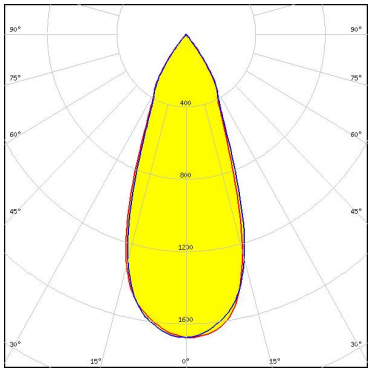
LED	COB J-Type
FWHM / FWTM	40.0° / 73.0°
Efficiency	88 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 463 Typ L2





NICHIA

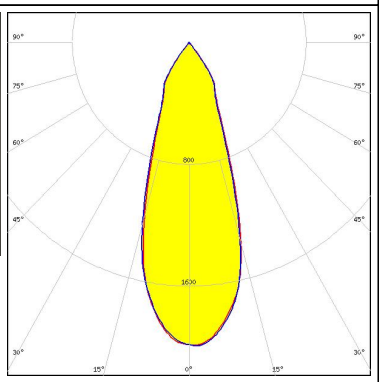
LED	COB L-Type (LES 11)
FWHM / FWTM	35.0° / 72.0°
Efficiency	88 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 438 Typ L1





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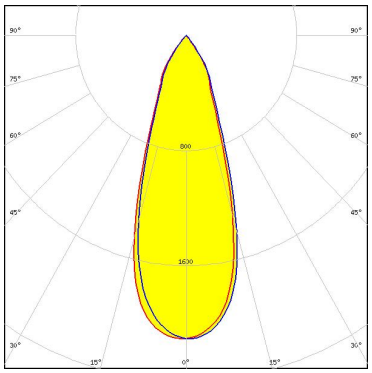
PHOTOMETRIC DATA (MEASURED):

NICHIA

LED	COB L-Type (LES 11)
FWHM / FWTM	35.0° / 71.0°
Efficiency	91 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C14037_PF-NSX-SOCKET



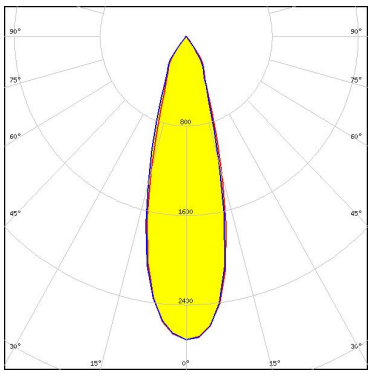


NICHIA

LED	COB L-Type (LES 9)
FWHM / FWTM	30.0° / 68.0°
Efficiency	92 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C14037_PF-NSX-SOCKET



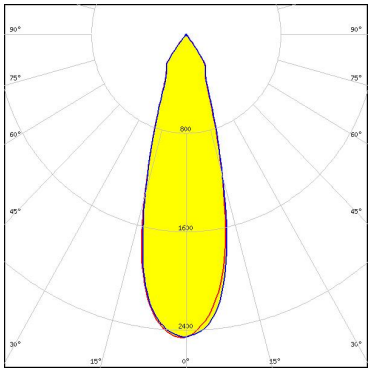


NICHIA

LED	COB L-Type (LES 9)
FWHM / FWTM	30.0° / 70.0°
Efficiency	91 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13709_PF-SOCKET-VERO13-18
Bender Wirth: 438 Typ L1



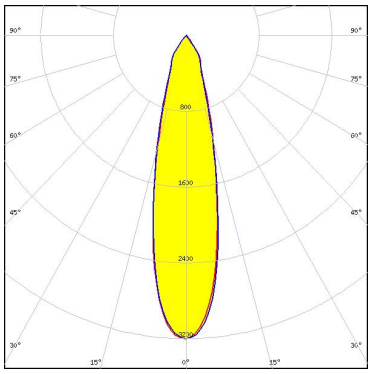


NICHIA

LED	NSCxL036A
FWHM / FWTM	25.0° / 60.0°
Efficiency	90 %
Peak intensity	3.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C14037_PF-NSX-SOCKET





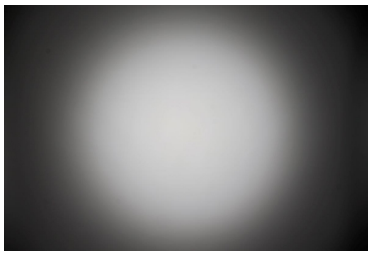
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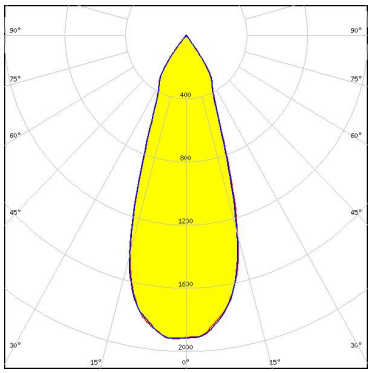
PHOTOMETRIC DATA (MEASURED):

OSRAM
Opto Semiconductors

LED	Soleriq S13
FWHM / FWTM	37.0° / 72.0°
Efficiency	89 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13709_PF-SOCKET-VERO13-18
Bender Wirth: 437 Typ L1



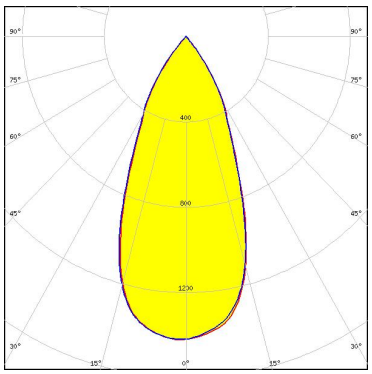


SAMSUNG

LED	LC026B / 033B / 040B
FWHM / FWTM	45.0° / 76.0°
Efficiency	87 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13709_PF-SOCKET-VERO13-18
Bender Wirth: 450 Typ L2



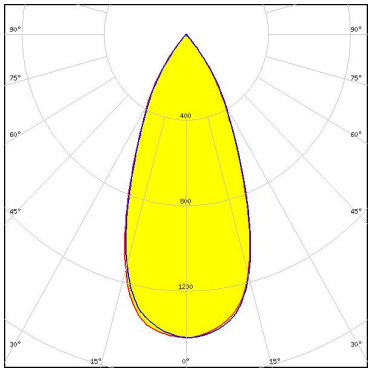


XICATO

LED	XTM - 19mm LES
FWHM / FWTM	45.0° / 75.0°
Efficiency	86 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C14636_XTM-PF-ADAPTER



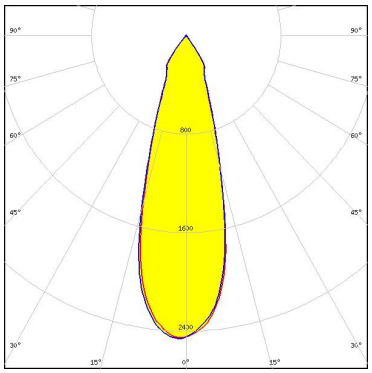


XICATO

LED	XTM - 9mm LES
FWHM / FWTM	30.0° / 70.0°
Efficiency	89 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C14636_XTM-PF-ADAPTER





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PHOTOMETRIC DATA (SIMULATED):

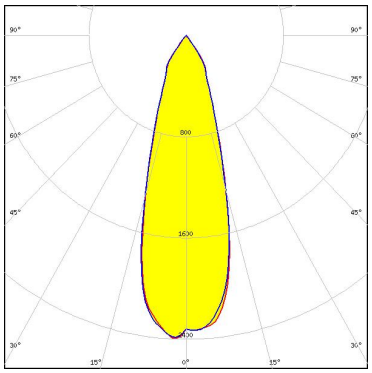
bridgelux

LED	V10 Gen7
FWHM / FWTM	31.0° / 69.0°
Efficiency	90 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 486 Typ L1



LUMILEDS

LED	LUXEON CoB Compact
FWHM / FWTM	20.0° / 52.0°
Efficiency	92 %
Peak intensity	4.1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C13761_PF-SOCKET-CXA15

LUMINUS

LED	CxM-14 (19x19)
FWHM / FWTM	41.0° / 73.0°
Efficiency	87 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 433 Typ L1

LUMINUS

LED	CxM-9 (13.5x13.5)
FWHM / FWTM	32.0° / 71.0°
Efficiency	88 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 434 Typ L1

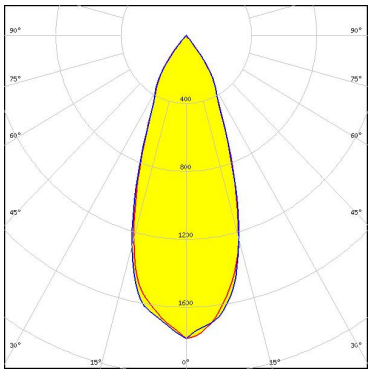
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PHOTOMETRIC DATA (SIMULATED):

OSRAM
Opto Semiconductors

LED	Soleriq S15
FWHM / FWTM	39.0° / 74.0°
Efficiency	90 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour	White

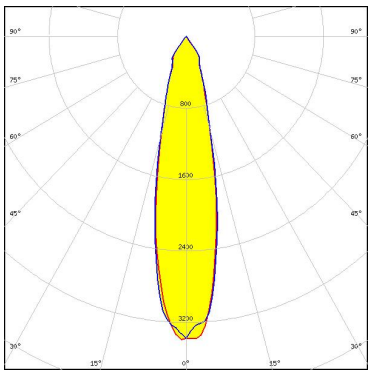
Required components:
C13709_PF-SOCKET-VERO13-18
Bender Wirth: 433 Typ L1



SAMSUNG

LED	LC010C
FWHM / FWTM	23.0° / 54.0°
Efficiency	90 %
Peak intensity	3.5 cd/lm
LEDs/each optic	1
Light colour	White

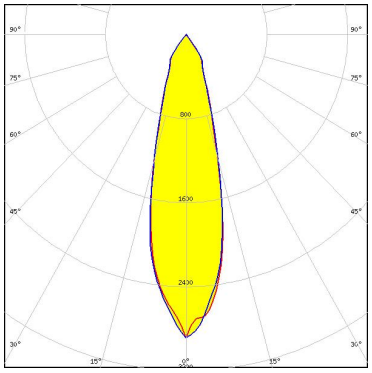
Required components:
C13709_PF-SOCKET-VERO13-18
Bender Wirth: 479 Typ L1



SAMSUNG

LED	LC020C
FWHM / FWTM	27.0° / 65.0°
Efficiency	89 %
Peak intensity	2.9 cd/lm
LEDs/each optic	1
Light colour	White

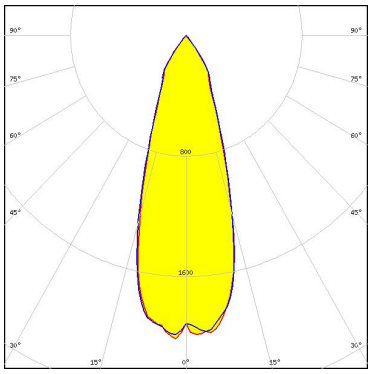
Required components:
C13709_PF-SOCKET-VERO13-18
Bender Wirth: 479 Typ L1



SAMSUNG

LED	LC040C
FWHM / FWTM	33.0° / 70.0°
Efficiency	85 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13709_PF-SOCKET-VERO13-18
Bender Wirth: 480 Typ L1



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PHOTOMETRIC DATA (SIMULATED):

SEOUL SEMICONDUCTOR

LED	ZC12/18
FWHM / FWTM	41.0° / 73.0°
Efficiency	87 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 433 Typ L1

SEOUL SEMICONDUCTOR

LED	ZC4/6
FWHM / FWTM	32.0° / 71.0°
Efficiency	88 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C13709_PF-SOCKET-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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