BARBARA-WW-PF

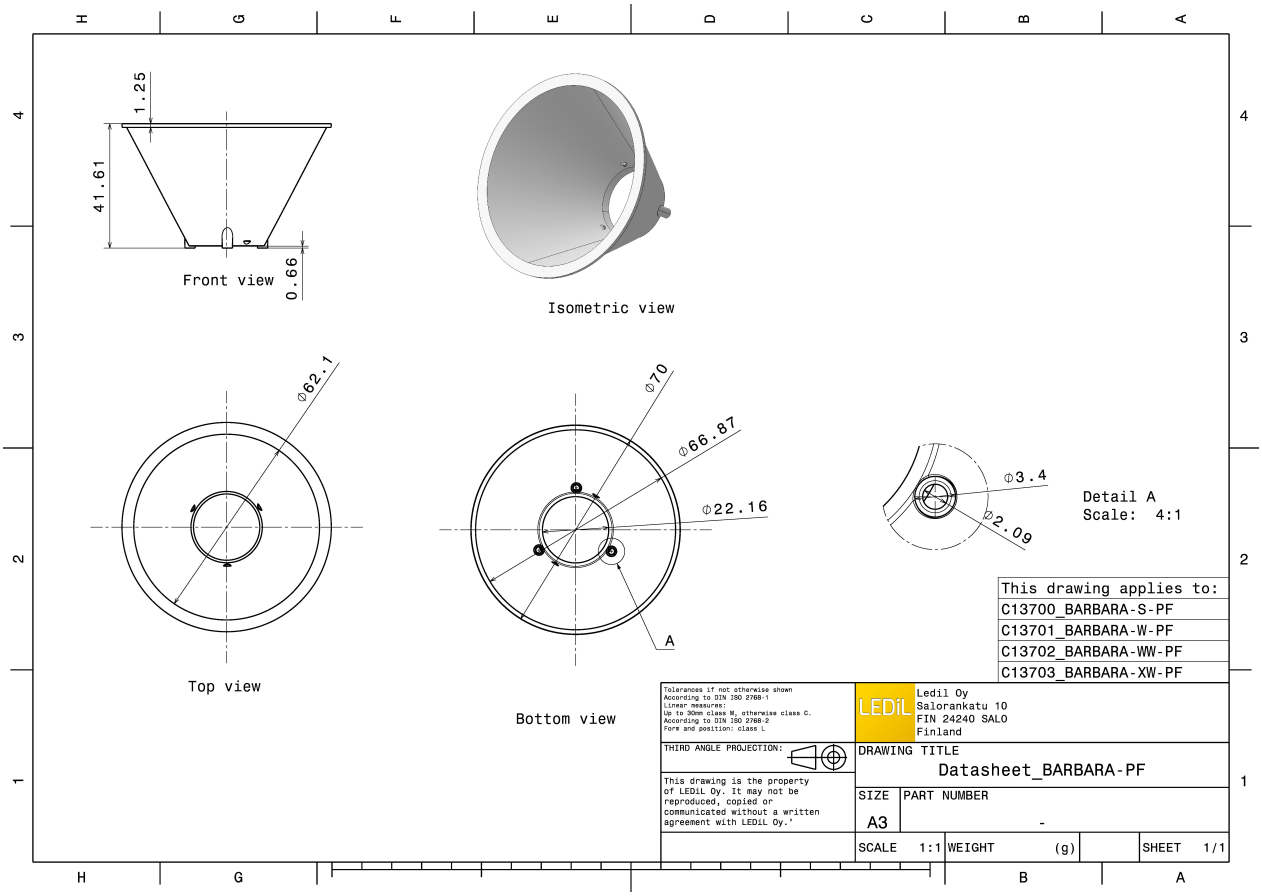
~60° wide beam

TECHNICAL SPECIFICATIONS:

Dimensions	Ø 70 mm
Height	41.7 mm
Fastening	socket
Colour	metal
Box size	480 x 280 x 300 mm
Box weight	6.3 kg
Quantity in Box	288 pcs
ROHS compliant	yes

MATERIAL SPECIFICATIONS:

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



PHOTOMETRIC DATA (MEASURED):

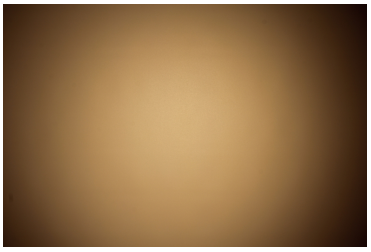
bridgelux

LED	V15 Gen6
FWHM	51.0°
Efficiency	86 %
Peak intensity	1.390 cd/lm

Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 456 Typ L2

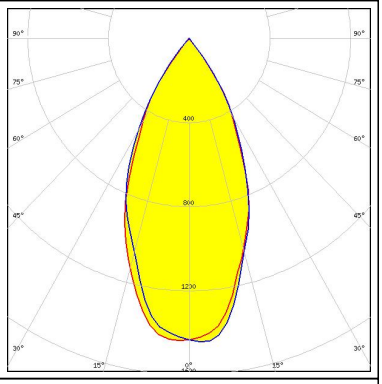


bridgelux

LED	VERO10
FWHM	49.0°
Efficiency	89 %
Peak intensity	1.500 cd/lm

Required components:

C13708_PF-SOCKET-VERO10

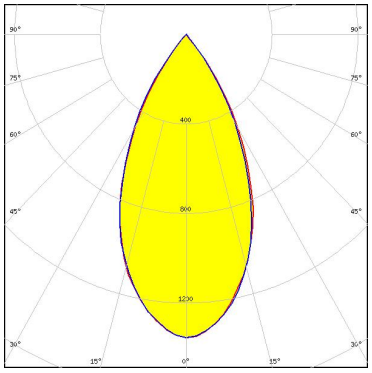


bridgelux

LED	VERO13
FWHM	51.0°
Efficiency	90 %
Peak intensity	1.400 cd/lm

Required components:

C13709_PF-SOCKET-VERO13-18

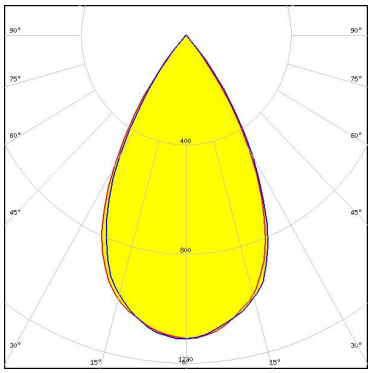


bridgelux

LED	VERO18
FWHM	58.0°
Efficiency	91 %
Peak intensity	1.170 cd/lm

Required components:

C13709_PF-SOCKET-VERO13-18

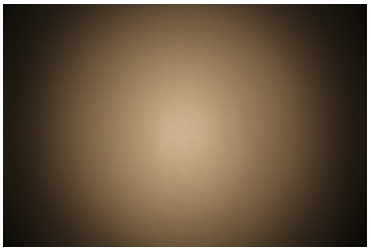


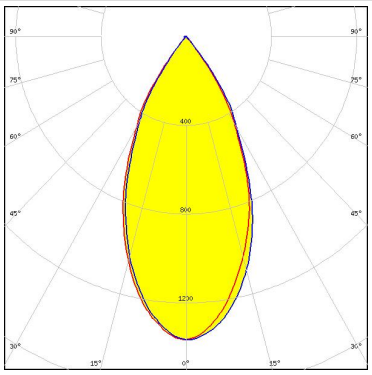
PHOTOMETRIC DATA (MEASURED):

bridgelux

LED	Xenio Point 13mm
FWHM	49.0°
Efficiency	89 %
Peak intensity	1.370 cd/lm

Required components:
C13709_PF-SOCKET-VERO13-18

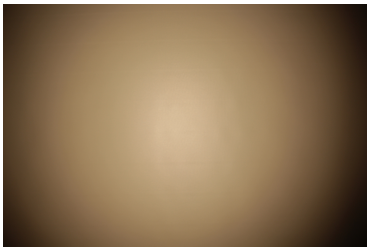


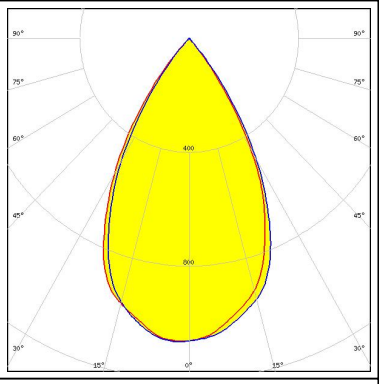


bridgelux

LED	Xenio Point 18mm
FWHM	59.0°
Efficiency	88 %
Peak intensity	1.070 cd/lm

Required components:
C13709_PF-SOCKET-VERO13-18

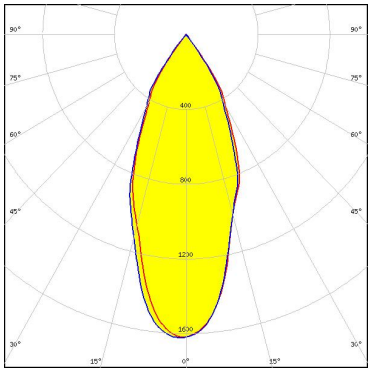




CITIZEN

LED	CLL02x/CLU02x (LES10)
FWHM	43.0°
Efficiency	88 %
Peak intensity	1.600 cd/lm

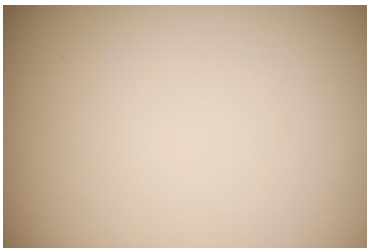
Required components:
C13709_PF-SOCKET-VERO13-18
Bender Wirth: 434 Typ L1

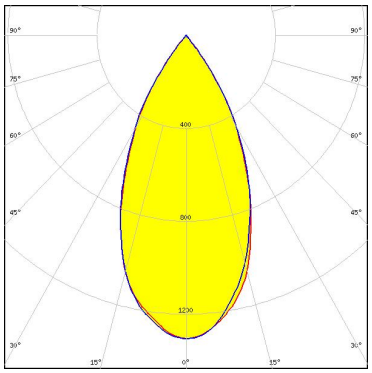


CITIZEN

LED	CLL03x/CLU03x
FWHM	50.0°
Efficiency	86 %
Peak intensity	1.300 cd/lm

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





PHOTOMETRIC DATA (MEASURED):

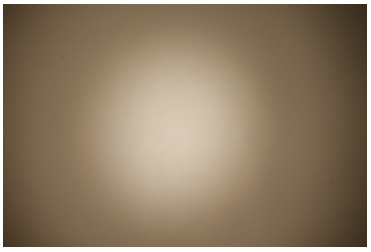
CITIZEN

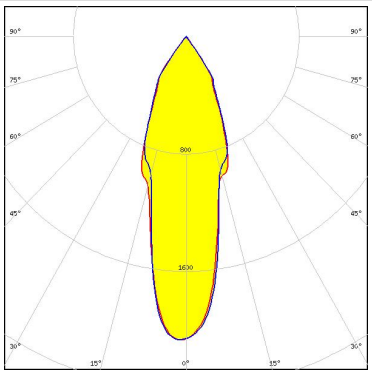
LED	CLU700/701
FWHM	28.0°
Efficiency	88 %
Peak intensity	2.100 cd/lm

Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 434 Typ L1





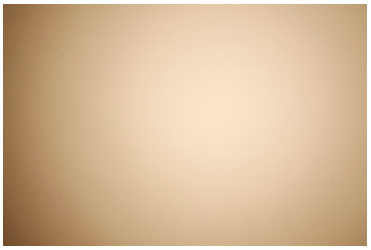
CITIZEN

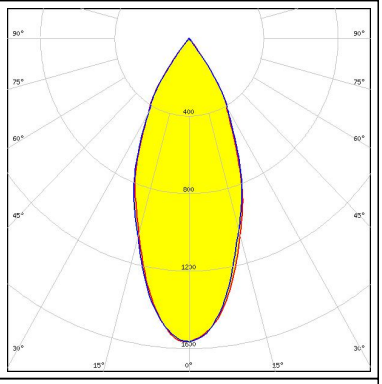
LED	CLU720/721
FWHM	43.0°
Efficiency	86 %
Peak intensity	cd/lm

Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 433 Typ L1



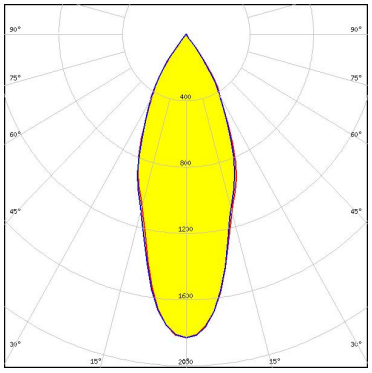


CREE

LED	CXA/B 15xx
FWHM	40.0°
Efficiency	89 %
Peak intensity	1.800 cd/lm

Required components:

C14115_PF-SOCKET-CXA15-18



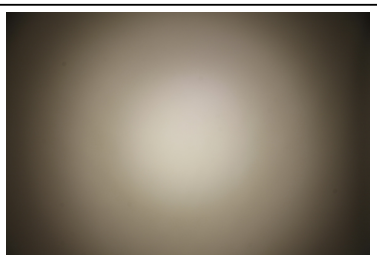
CREE

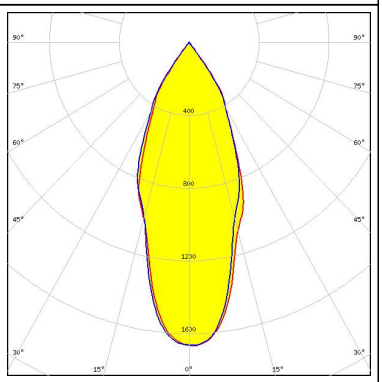
LED	CXA/B 15xx
FWHM	41.0°
Efficiency	87 %
Peak intensity	1.700 cd/lm

Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 441 Typ L1





PHOTOMETRIC DATA (MEASURED):

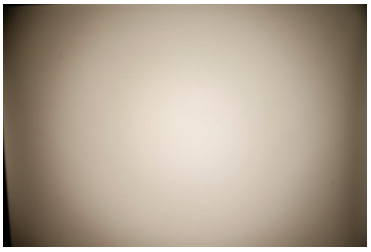
CREE

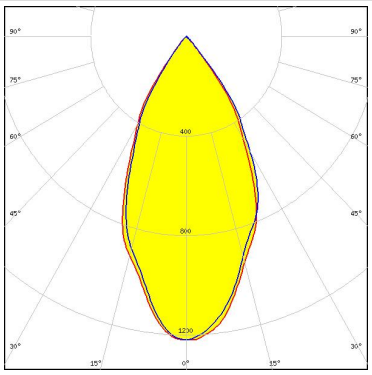
LED	CXA/B 15xx
FWHM	51.0°
Efficiency	85 %
Peak intensity	1.200 cd/lm

Required components:

C13083_PF-SOCKET

C14658_BARBARA-RZ-LENS



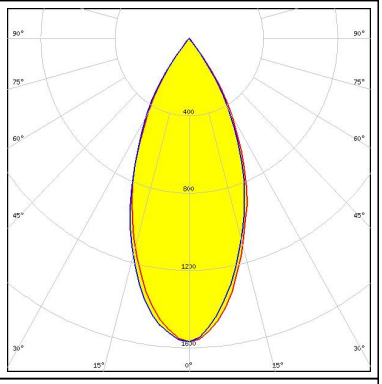


CREE

LED	CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM	46.0°
Efficiency	90 %
Peak intensity	1.600 cd/lm

Required components:

C14115_PF-SOCKET-CXA15-18



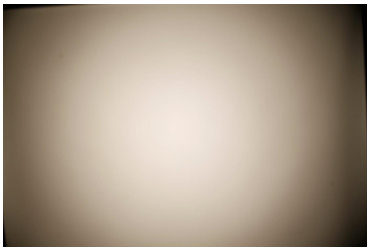
CREE

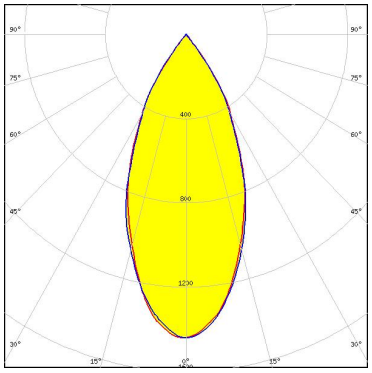
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM	46.0°
Efficiency	86 %
Peak intensity	1.400 cd/lm

Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 437 Typ L1





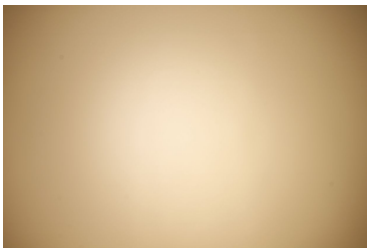
LUMILEDS

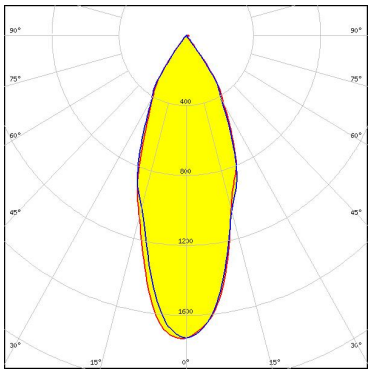
LED	LUXEON CoB 1202/1203
FWHM	39.0°
Efficiency	88 %
Peak intensity	1.700 cd/lm

Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 438 Typ L1



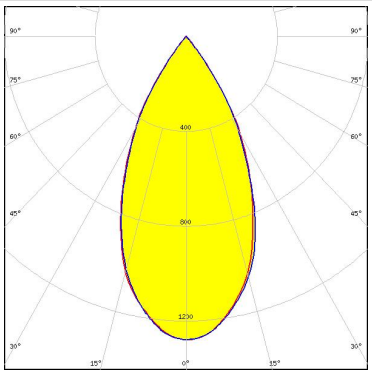


PHOTOMETRIC DATA (MEASURED):

NICHIA

LED	COB J-Type
FWHM	51.0°
Efficiency	86 %
Peak intensity	1.300 cd/lm

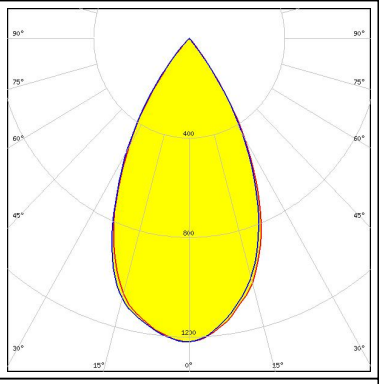
Required components:
C13709_PF-SOCKET-VERO13-18
Bender Wirth: 463 Typ L2



NICHIA

LED	COB J-Type
FWHM	55.0°
Efficiency	90 %
Peak intensity	1.220 cd/lm

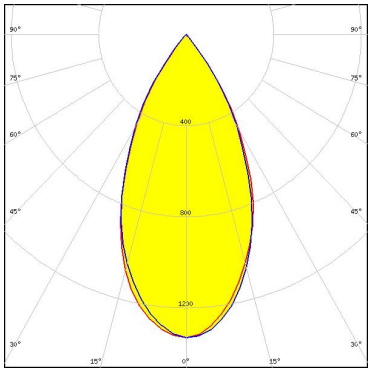
Required components:
C14037_PF-NSX-SOCKET



NICHIA

LED	COB L-Type (LES 11)
FWHM	51.0°
Efficiency	90 %
Peak intensity	1.330 cd/lm

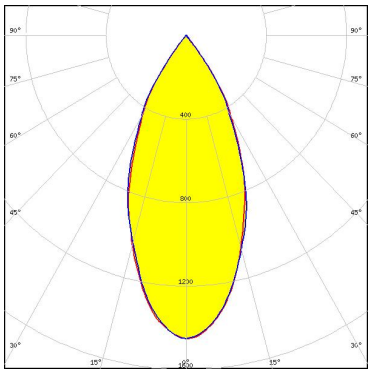
Required components:
C14037_PF-NSX-SOCKET



NICHIA

LED	COB L-Type (LES 11)
FWHM	46.0°
Efficiency	87 %
Peak intensity	1.500 cd/lm

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

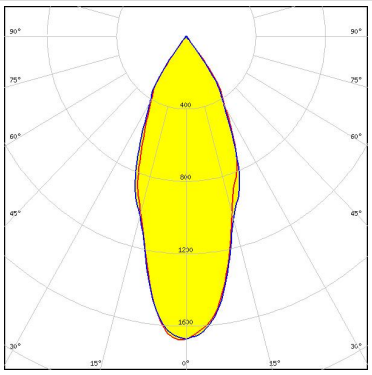


PHOTOMETRIC DATA (MEASURED):

NICHIA

LED	COB L-Type (LES 9)
FWHM	41.0°
Efficiency	89 %
Peak intensity	1.700 cd/lm

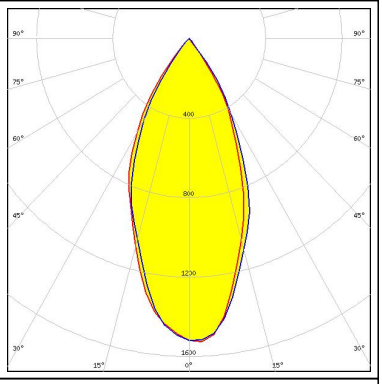
Required components:
C13709_PF-SOCKET-VERO13-18
Bender Wirth: 438 Typ L1



NICHIA

LED	COB L-Type (LES 9)
FWHM	47.0°
Efficiency	91 %
Peak intensity	1.500 cd/lm

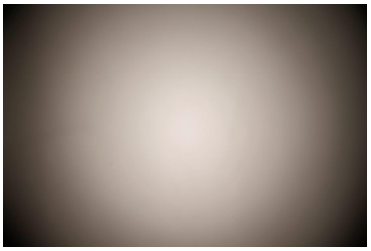
Required components:
C14037_PF-NSX-SOCKET

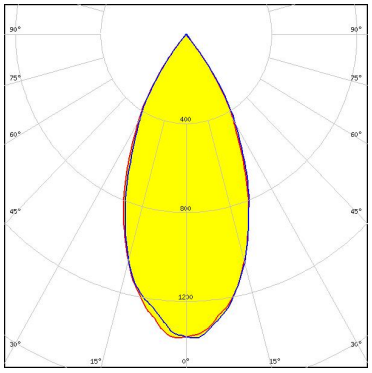


OSRAM
Opto Semiconductors

LED	Soleriq P13
FWHM	48.0°
Efficiency	88 %
Peak intensity	1.370 cd/lm

Required components:
C14115_PF-SOCKET-CXA15-18

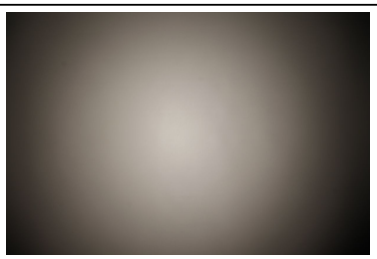


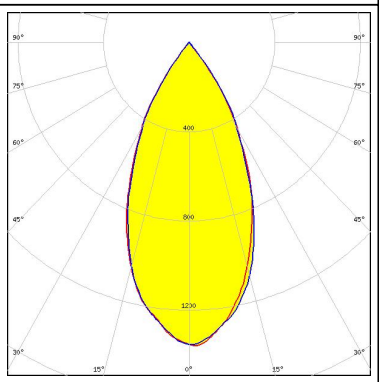


OSRAM
Opto Semiconductors

LED	Soleriq P13
FWHM	48.0°
Efficiency	88 %
Peak intensity	1.400 cd/lm

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



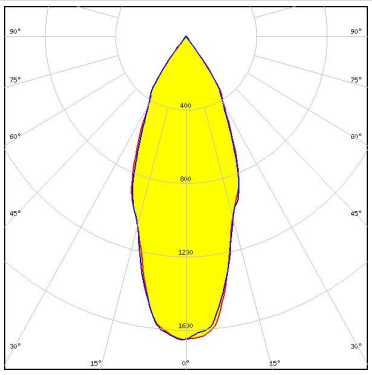


PHOTOMETRIC DATA (MEASURED):

OSRAM
Opto Semiconductors

LED	Soleriq P9
FWHM	43.0°
Efficiency	90 %
Peak intensity	1.700 cd/lm

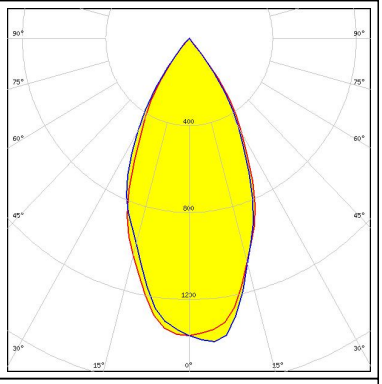
Required components:
C13709_PF-SOCKET-VERO13-18
Bender Wirth: 461 Typ L1



OSRAM
Opto Semiconductors

LED	Soleriq P9
FWHM	50.0°
Efficiency	90 %
Peak intensity	1.400 cd/lm

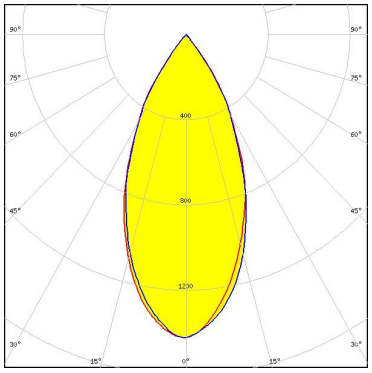
Required components:
C13761_PF-SOCKET-CXA15



OSRAM
Opto Semiconductors

LED	Soleriq S13
FWHM	47.0°
Efficiency	87 %
Peak intensity	1.400 cd/lm

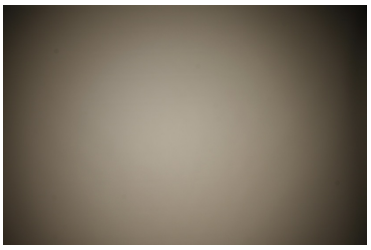
Required components:
C13709_PF-SOCKET-VERO13-18
Bender Wirth: 437 Typ L1

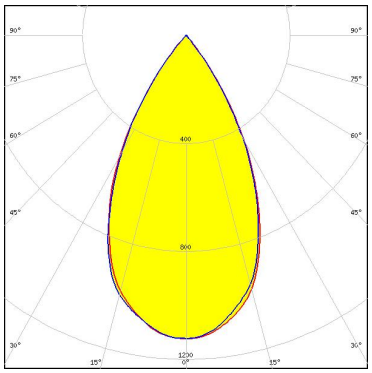


SAMSUNG

LED	LC026B / 033B / 040B
FWHM	55.0°
Efficiency	86 %
Peak intensity	1.100 cd/lm

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





PHOTOMETRIC DATA (MEASURED):

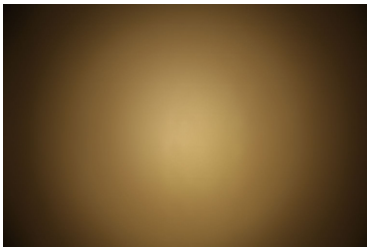
TRIDONIC

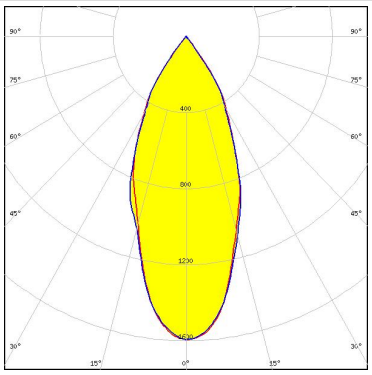
LED	SLE G5 LES11
FWHM	43.0°
Efficiency	89 %
Peak intensity	1.600 cd/lm

Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 434 Typ L1



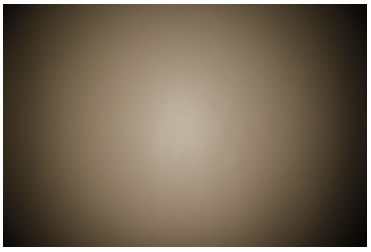


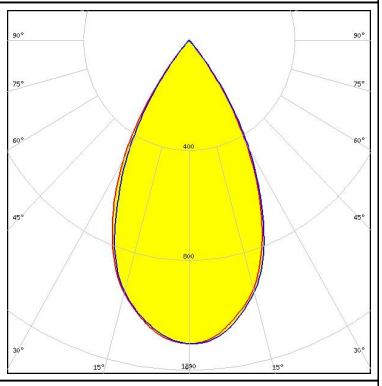
XICATO

LED	XTM - 19mm LES
FWHM	55.0°
Efficiency	84 %
Peak intensity	1.100 cd/lm

Required components:

C14636_XTM-PF-ADAPTER



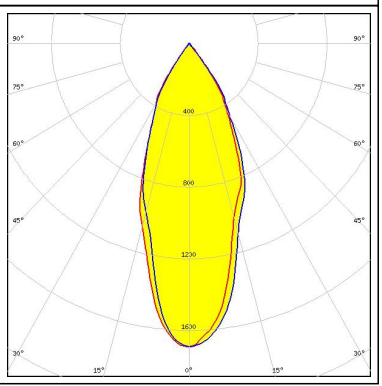


XICATO

LED	XTM - 9mm LES
FWHM	42.0°
Efficiency	87 %
Peak intensity	1.700 cd/lm

Required components:

C14636_XTM-PF-ADAPTER



PHOTOMETRIC DATA (SIMULATED):

bridgelux

LED	VERO10
FWHM	66.0°
Efficiency	%
Peak intensity	cd/lm

Required components:

bridgelux

LED	VERO13
FWHM	67.0°
Efficiency	%
Peak intensity	cd/lm

Required components:

bridgelux

LED	VERO18
FWHM	68.0°
Efficiency	%
Peak intensity	cd/lm

Required components:

LUMINUS

LED	CXM-14
FWHM	50.0°
Efficiency	86 %
Peak intensity	1.300 cd/lm

Required components:

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

PHOTOMETRIC DATA (SIMULATED):

LUMINUS

LED	CXM-9
FWHM	43.0°
Efficiency	88 %
Peak intensity	1.600 cd/lm

Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 434 Typ L1

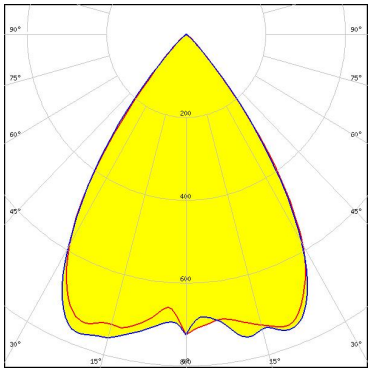
OSRAM
Opto Semiconductors

LED	Soleriq S15
FWHM	73.0°
Efficiency	90 %
Peak intensity	0.770 cd/lm

Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 433 Typ L1



SEOUL SEMICONDUCTOR

LED	ZC12/18
FWHM	50.0°
Efficiency	86 %
Peak intensity	1.300 cd/lm

Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 433 Typ L1

SEOUL SEMICONDUCTOR

LED	ZC4/6
FWHM	43.0°
Efficiency	88 %
Peak intensity	1.600 cd/lm

Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 434 Typ L1

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.

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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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