

BARBARA-WW-PF

~60° wide beam

TECHNICAL SPECIFICATIONS:

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

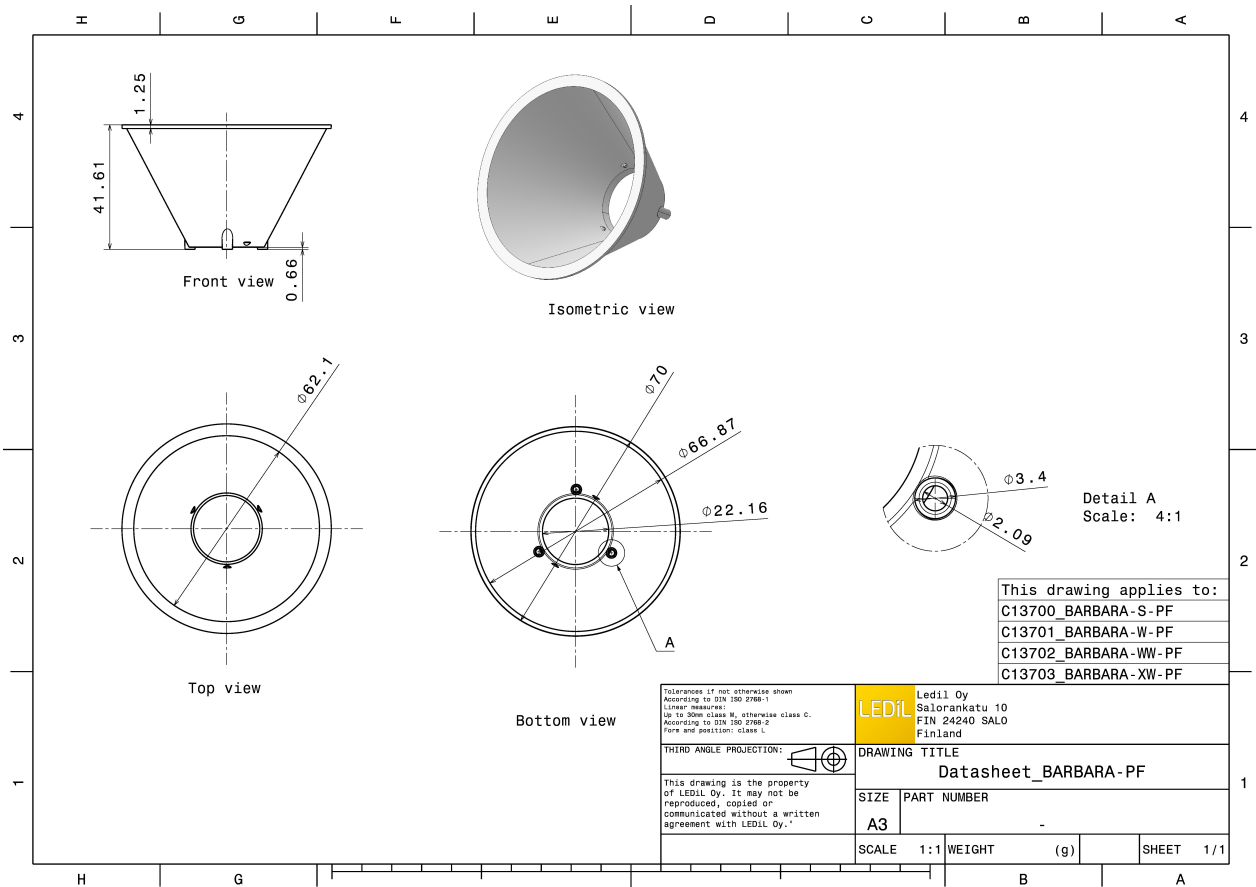
MATERIAL SPECIFICATIONS:

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

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
F13702_BARBARA-WW-PF » Box size: 480 x 280 x 300 mm	288	90	18	6.3



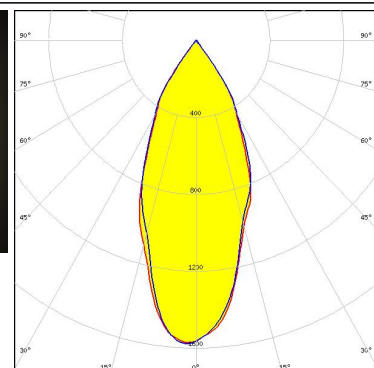
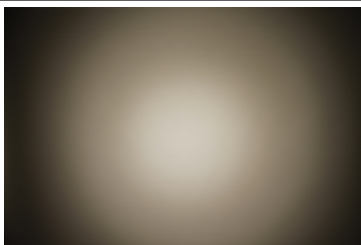


See also our general installation guide: www.ledil.com/installation_guide

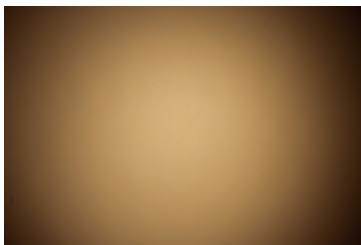
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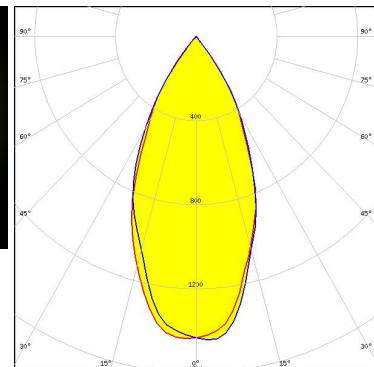
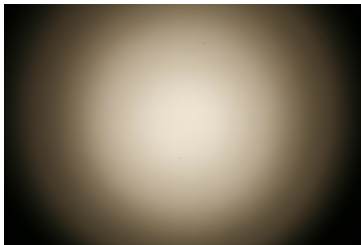
LED V10 Gen7
 FWHM / FWTM 44.0° / 74.0°
 Efficiency 88 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 434 Typ L1



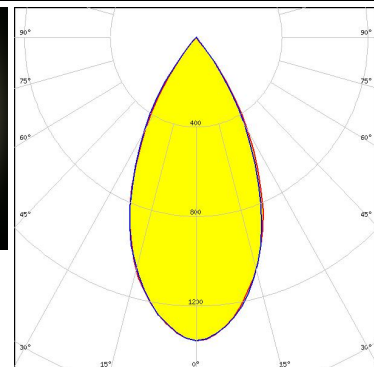
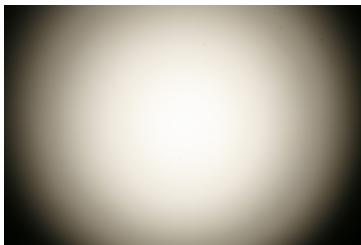
LED V15 Gen6
 FWHM / FWTM 51.0° / 78.0°
 Efficiency 86 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 456 Typ L2



LED VERO10
 FWHM / FWTM 49.0° / 77.0°
 Efficiency 89 %
 Peak intensity 1.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13708_PF-SOCKET-VERO10



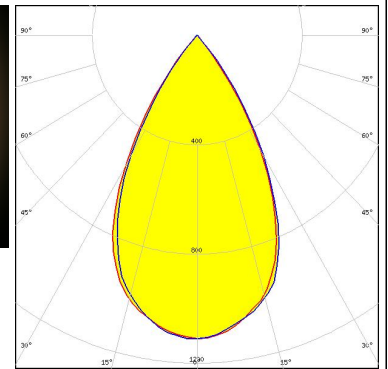
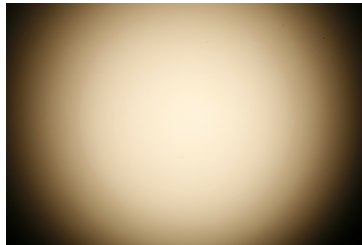
LED VERO13
 FWHM / FWTM 51.0° / 77.0°
 Efficiency 90 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18



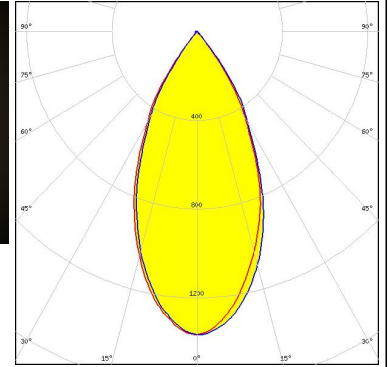
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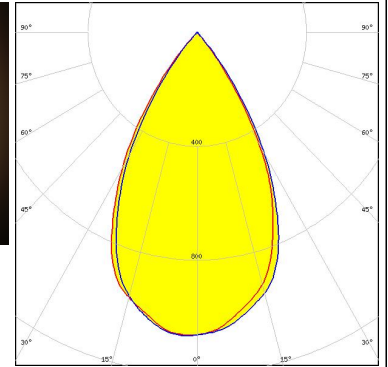
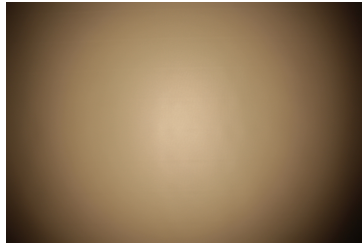
LED VERO18
FWHM / FWTM 58.0° / 83.0°
Efficiency 91 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13709_PF-SOCKET-VERO13-18



LED Xenio Point 13mm
FWHM / FWTM 49.0° / 76.0°
Efficiency 89 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13709_PF-SOCKET-VERO13-18

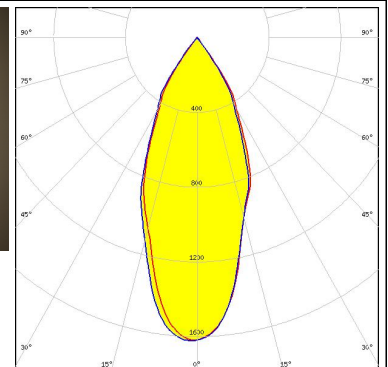
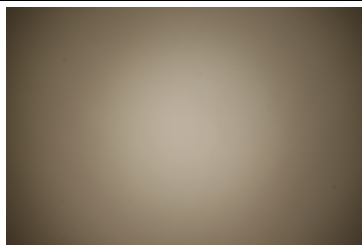


LED Xenio Point 18mm
FWHM / FWTM 59.0° / 80.0°
Efficiency 88 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13709_PF-SOCKET-VERO13-18



CITIZEN

LED CLL02x/CLU02x (LES10)
FWHM / FWTM 43.0° / 74.0°
Efficiency 88 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13709_PF-SOCKET-VERO13-18
Bender Wirth: 434 Typ L1



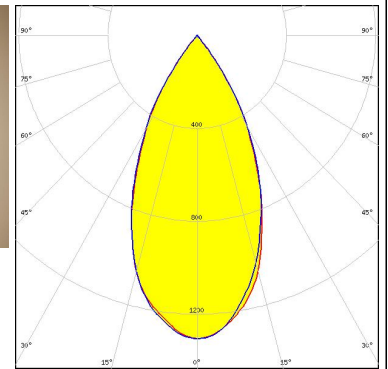
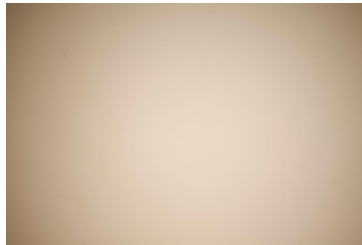
PHOTOMETRIC DATA (MEASURED):

CITIZEN

LED CLL03x/CLU03x
FWHM / FWTM 50.0° / 76.0°
Efficiency 86 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White

Required components:

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

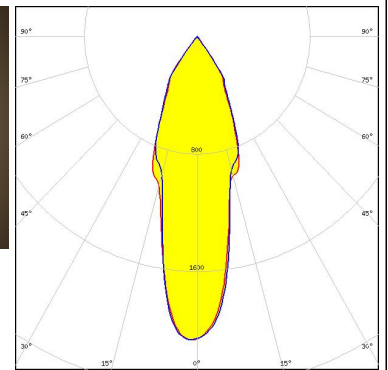
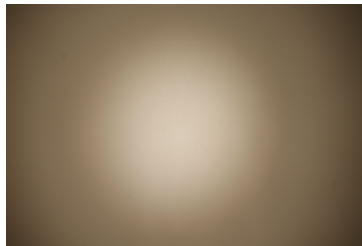


CITIZEN

LED CLU700/701/702
FWHM / FWTM 28.0° / 72.0°
Efficiency 88 %
Peak intensity 2.1 cd/lm
LEDs/each optic 1
Light colour White

Required components:

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

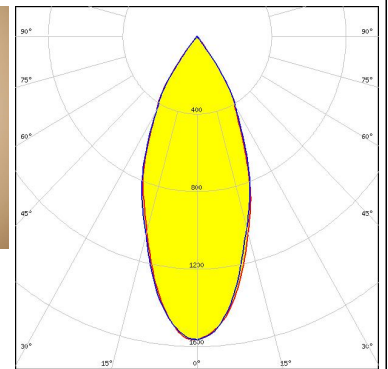
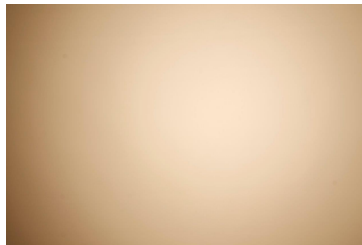


CITIZEN

LED CLU720/721
FWHM / FWTM 43.0° / 73.0°
Efficiency 86 %
LEDs/each optic 1
Light colour White

Required components:

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

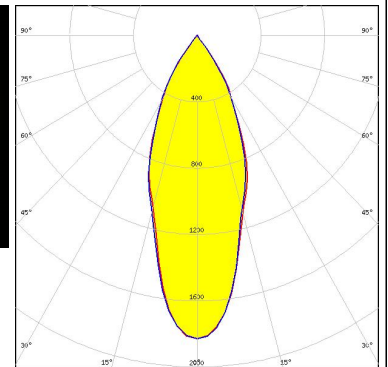
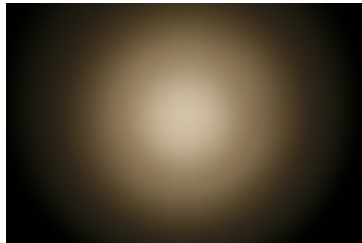


CREE LED

LED CXA/B 15xx
FWHM / FWTM 40.0° / 73.0°
Efficiency 89 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour White

Required components:

C14115_PF-SOCKET-CXA15-18



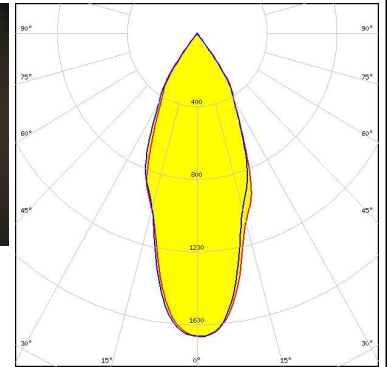
PHOTOMETRIC DATA (MEASURED):

CREE LED

LED CXA/B 15xx
FWHM / FWTM 41.0° / 73.0°
Efficiency 87 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour White

Required components:

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

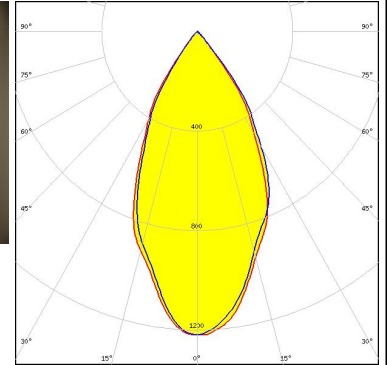
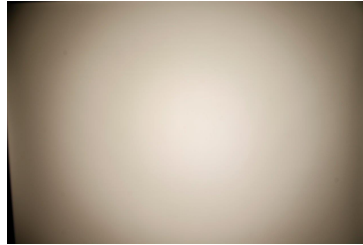


CREE LED

LED CXA/B 15xx
FWHM / FWTM 51.0° / 78.0°
Efficiency 85 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White

Required components:

C13083_PF-SOCKET
C14658_BARBARA-RZ-LENS

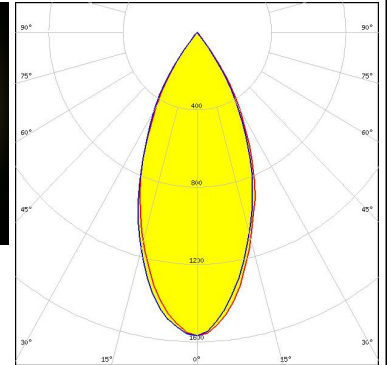
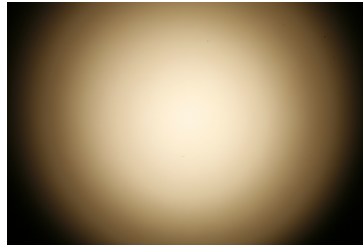


CREE LED

LED CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM / FWTM 46.0° / 75.0°
Efficiency 90 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour White

Required components:

C14115_PF-SOCKET-CXA15-18

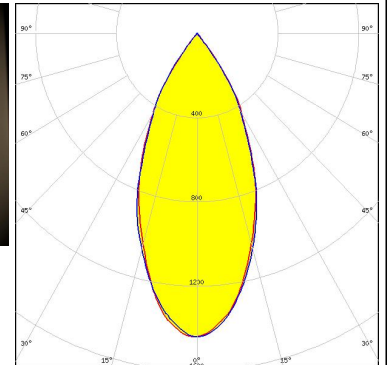
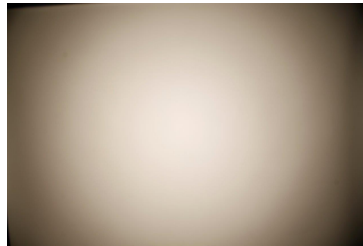


CREE LED

LED CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM / FWTM 46.0° / 75.0°
Efficiency 86 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White

Required components:

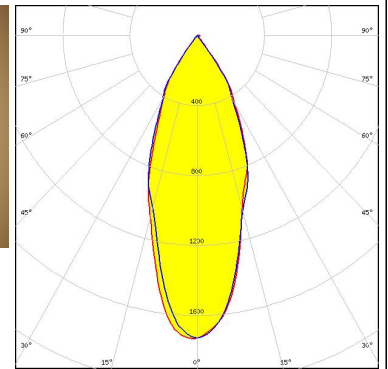
C13709_PF-SOCKET-VERO13-18
Bender Wirth: 437 Typ L1



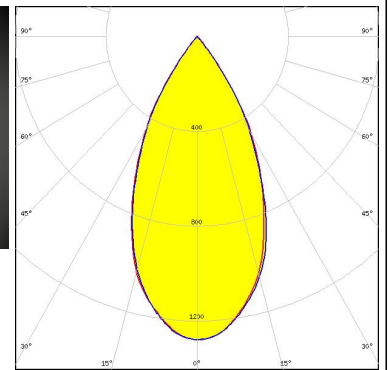
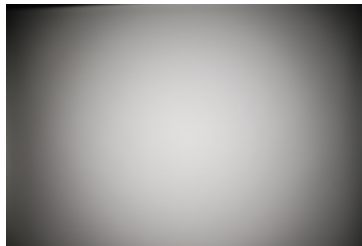
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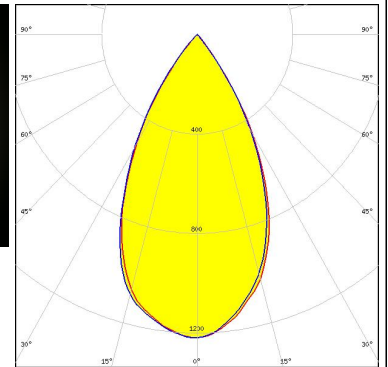
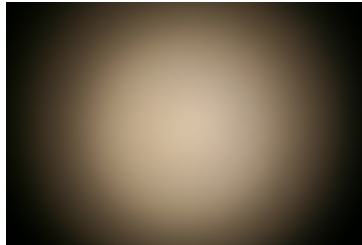
LED LUXEON CoB 1202/1203
 FWHM / FWTM 39.0° / 73.0°
 Efficiency 88 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 438 Typ L1



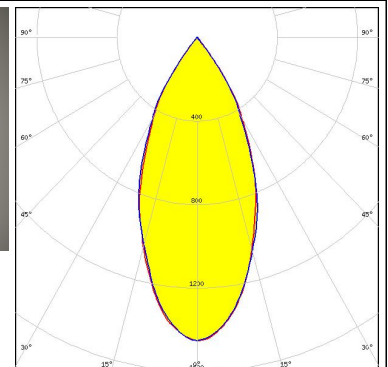
LED COB J-Type
 FWHM / FWTM 51.0° / 76.0°
 Efficiency 86 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 463 Typ L2



LED COB J-Type
 FWHM / FWTM 55.0° / 78.0°
 Efficiency 90 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C14037_PF-NSX-SOCKET



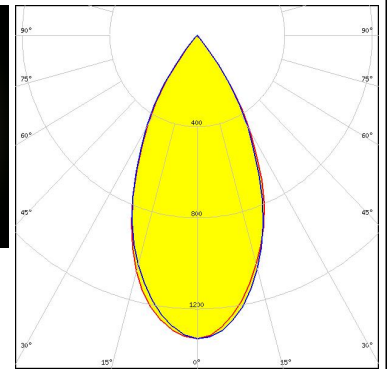
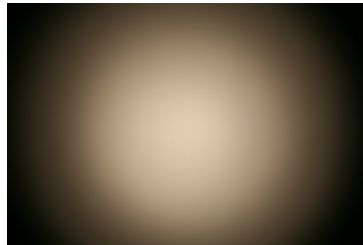
LED COB L-Type (LES 11)
 FWHM / FWTM 46.0° / 75.0°
 Efficiency 87 %
 Peak intensity 1.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 438 Typ L1



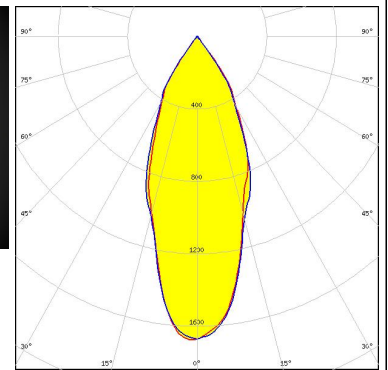
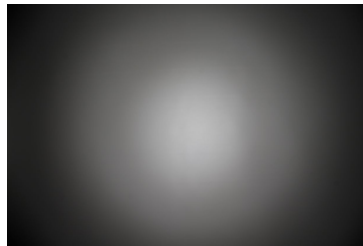
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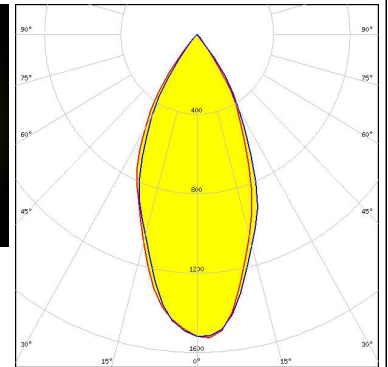
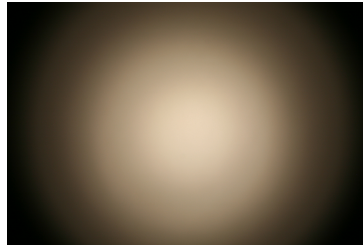
LED COB L-Type (LES 11)
 FWHM / FWTM 51.0° / 77.0°
 Efficiency 90 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C14037_PF-NSX-SOCKET



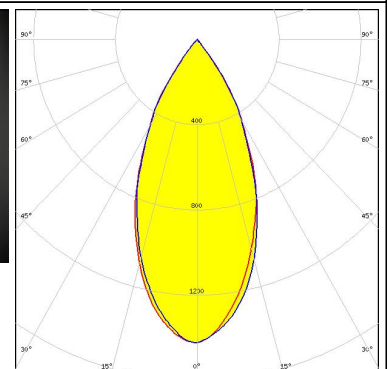
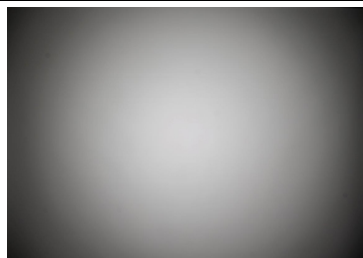
LED COB L-Type (LES 9)
 FWHM / FWTM 41.0° / 74.0°
 Efficiency 89 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 438 Typ L1



LED COB L-Type (LES 9)
 FWHM / FWTM 47.0° / 76.0°
 Efficiency 91 %
 Peak intensity 1.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C14037_PF-NSX-SOCKET



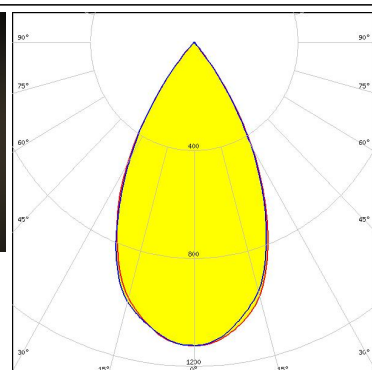
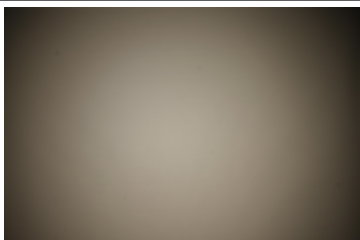
LED Soleriq S13
 FWHM / FWTM 47.0° / 75.0°
 Efficiency 87 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 437 Typ L1



PHOTOMETRIC DATA (MEASURED):

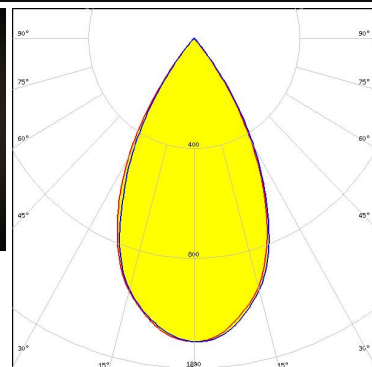
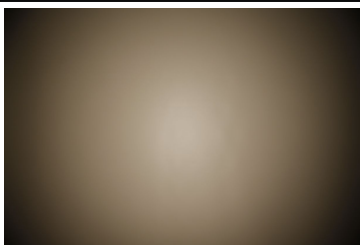
SAMSUNG

LED LC026B / 033B / 040B
 FWHM / FWTM 55.0° / 78.0°
 Efficiency 86 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 450 Typ L2



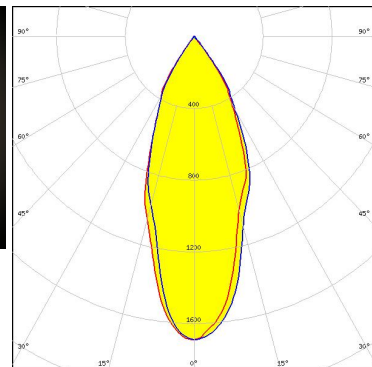
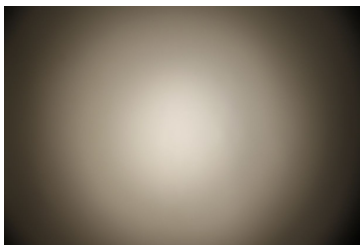
XICATO

LED XTM - 19mm LES
 FWHM / FWTM 55.0° / 78.0°
 Efficiency 84 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C14636_XTM-PF-ADAPTER



XICATO

LED XTM - 9mm LES
 FWHM / FWTM 42.0° / 73.0°
 Efficiency 87 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C14636_XTM-PF-ADAPTER



PHOTOMETRIC DATA (SIMULATED):



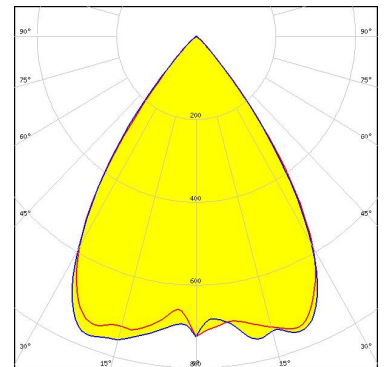
LED CxM-14 (19x19)
 FWHM / FWTM 50.0° / 76.0°
 Efficiency 86 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 433 Typ L1



LED CxM-9 (13.5x13.5)
 FWHM / FWTM 43.0° / 74.0°
 Efficiency 88 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 434 Typ L1



Opto Semiconductors
 LED Soleriq S15
 FWHM / FWTM 73.0° / 88.0°
 Efficiency 90 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 433 Typ L1



SEOUL SEMICONDUCTOR
 LED ZC12/18
 FWHM / FWTM 50.0° / 76.0°
 Efficiency 86 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 433 Typ L1

PHOTOMETRIC DATA (SIMULATED):

 SEOUL SEMICONDUCTOR	
LED	ZC4/6
FWHM / FWTM	43.0° / 74.0°
Efficiency	88 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White
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.

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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LEDiL Oy

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P.R.CHINA

Local sales and technical support

[www.ledil.com/
where_to_buy](http://www.ledil.com/where_to_buy)

Shipping locations

Salo, Finland
Hong Kong, China

Distribution Partners

[www.ledil.com/
where_to_buy](http://www.ledil.com/where_to_buy)