

BARBARA-WW-PF

~60° wide beam

SPECIFICATION:

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

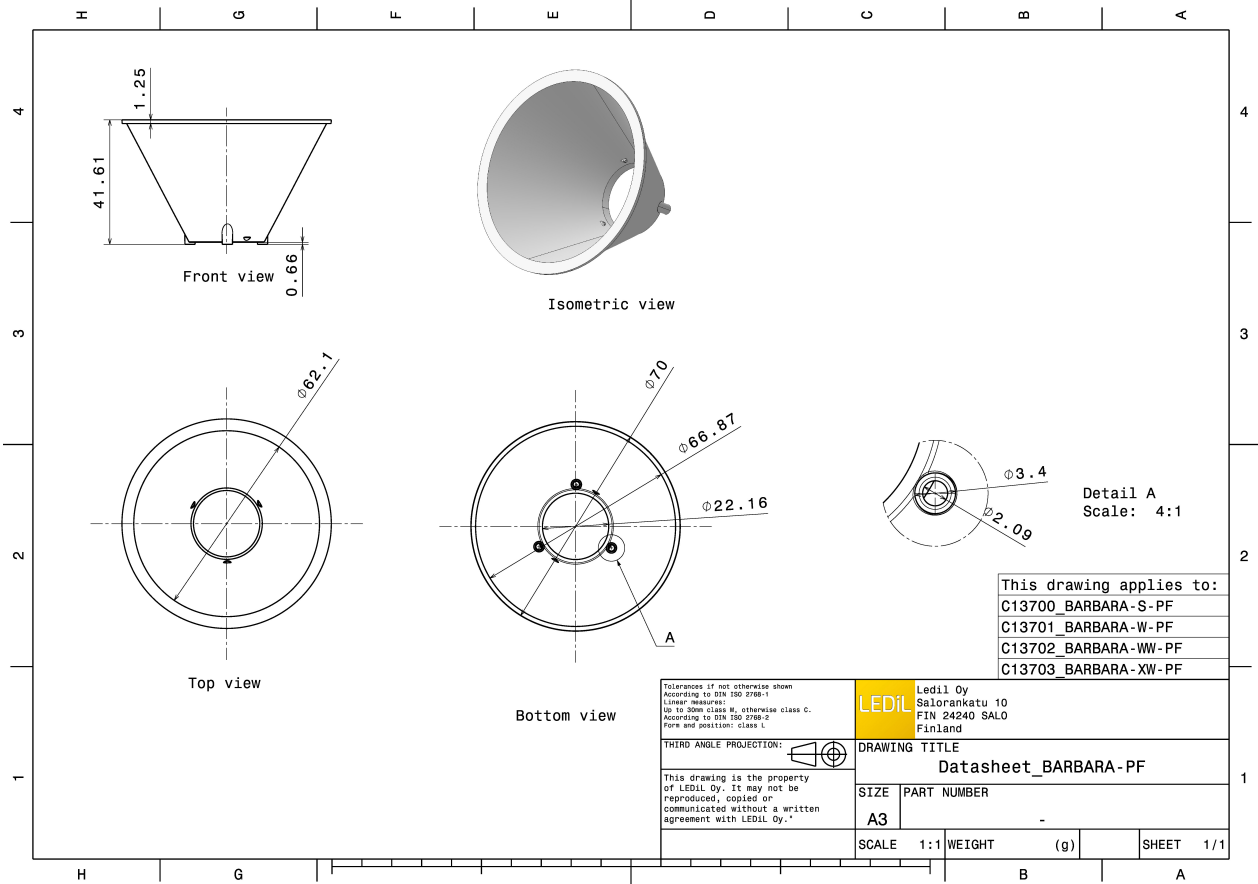
MATERIALS:

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	5.8



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

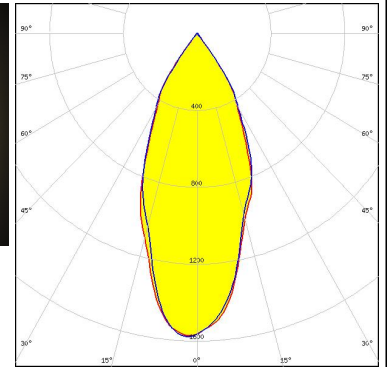
OPTICAL RESULTS (MEASURED):

bridgelux

LED V10 Gen7
 FWHM / FWTM 44.0° / 74.0°
 Efficiency 88 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour/type White

Required components:

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



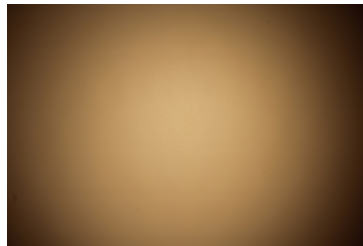
Light distribution files

bridgelux

LED V15 Gen6
 FWHM / FWTM 51.0° / 78.0°
 Efficiency 86 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour/type White

Required components:

C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 456 Typ L2



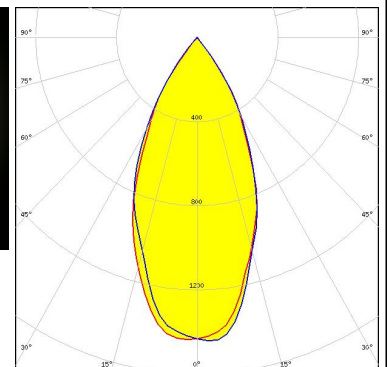
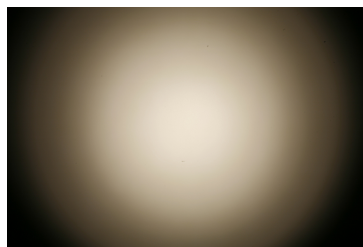
Light distribution files

bridgelux

LED VERO10
 FWHM / FWTM 49.0° / 77.0°
 Efficiency 89 %
 Peak intensity 1.5 cd/lm
 LEDs/each optic 1
 Light colour/type White

Required components:

C13708_PF-SOCKET-VERO10

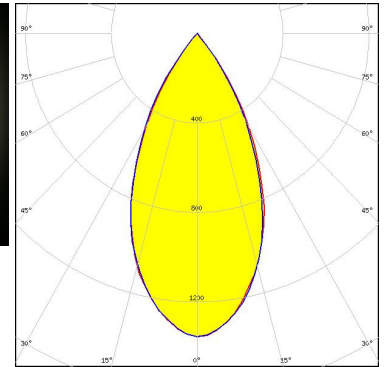
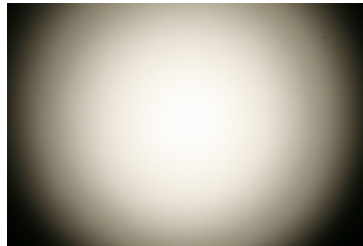


Light distribution files

OPTICAL RESULTS (MEASURED):



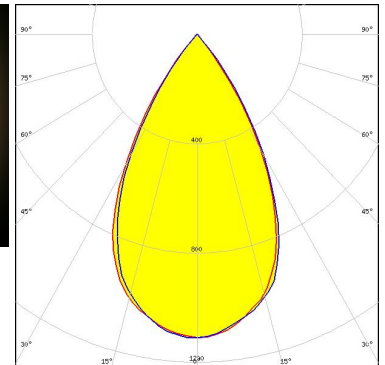
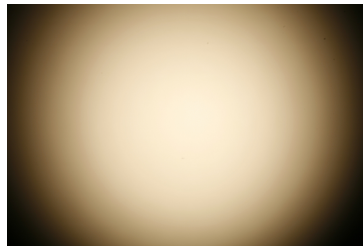
LED VERO13
FWHM / FWTM 51.0° / 77.0°
Efficiency 90 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
C13709_PF-SOCKET-VERO13-18



Light distribution files



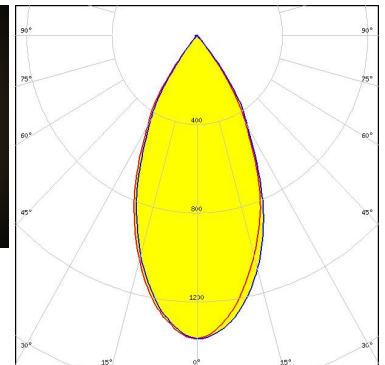
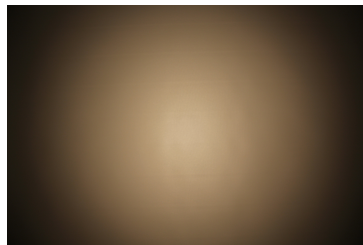
LED VERO18
FWHM / FWTM 58.0° / 83.0°
Efficiency 91 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
C13709_PF-SOCKET-VERO13-18



Light distribution files



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

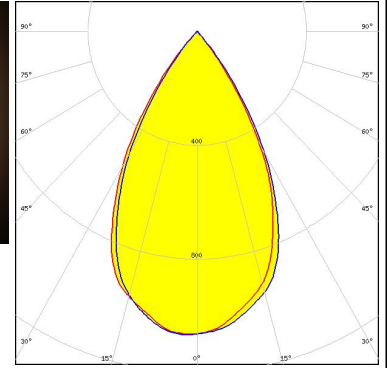
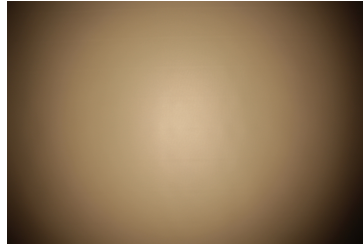


Light distribution files

OPTICAL RESULTS (MEASURED):



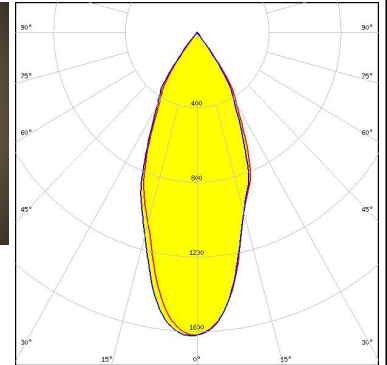
LED Xenio Point 18mm
 FWHM / FWTM 59.0° / 80.0°
 Efficiency 88 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13709_PF-SOCKET-VERO13-18



Light distribution files

CITIZEN

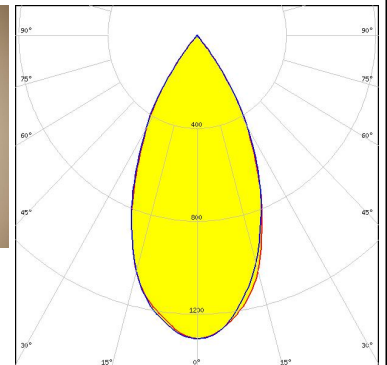
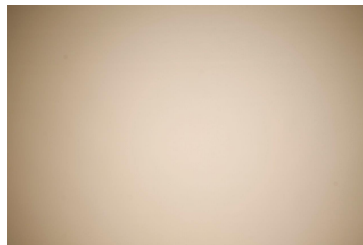
LED CLL02x/CLU02x (LES10)
 FWHM / FWTM 43.0° / 74.0°
 Efficiency 88 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 434 Typ L1



Light distribution files

CITIZEN

LED CLL03x/CLU03x
 FWHM / FWTM 50.0° / 76.0°
 Efficiency 86 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 433 Typ L1

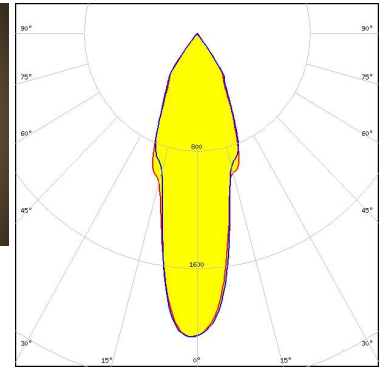
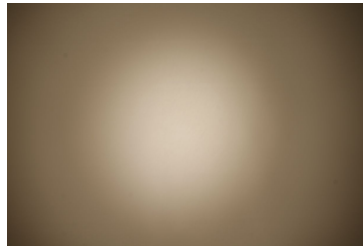


Light distribution files

OPTICAL RESULTS (MEASURED):

CITIZEN

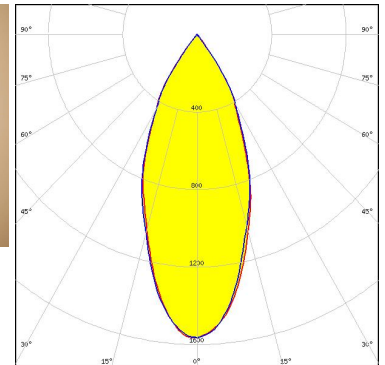
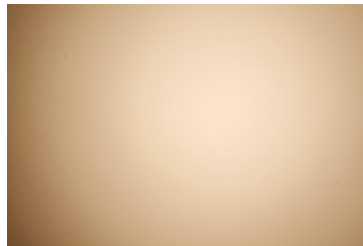
LED CLU700/701/702/703
 FWHM / FWTM 28.0° / 72.0°
 Efficiency 88 %
 Peak intensity 2.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 434 Typ L1



Light distribution files

CITIZEN

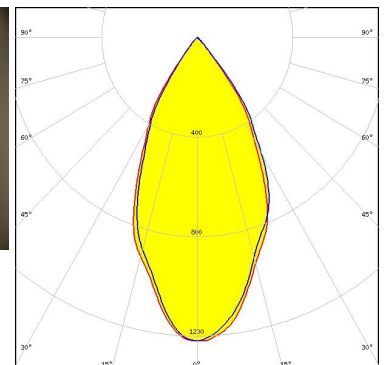
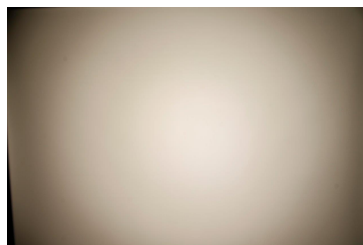
LED CLU720/721/723
 FWHM / FWTM 43.0° / 73.0°
 Efficiency 86 %
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 433 Typ L1



Light distribution files



LED CXA/B 15xx
 FWHM / FWTM 51.0° / 78.0°
 Efficiency 85 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13083_PF-SOCKET
 C14658_BARBARA-RZ-LENS



Light distribution files

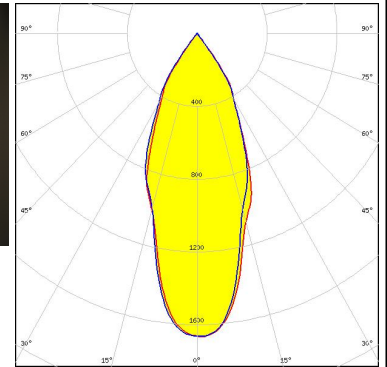
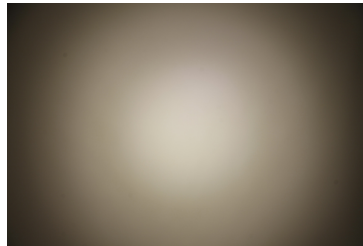
OPTICAL RESULTS (MEASURED):



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

Required components:

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



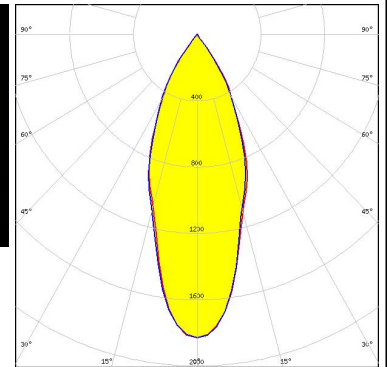
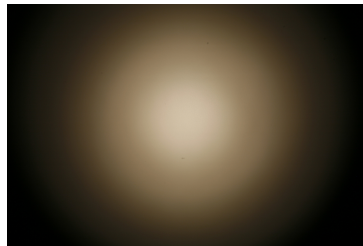
Light distribution files



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

Required components:

C14115_PF-SOCKET-CXA15-18



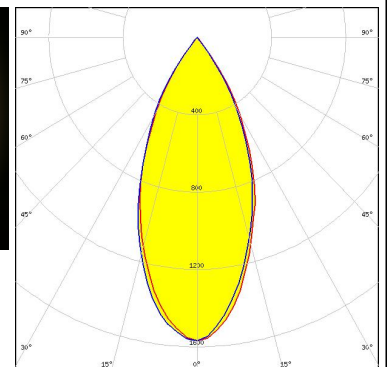
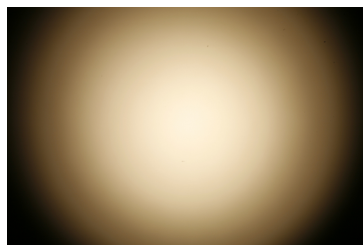
Light distribution files



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/type White

Required components:

C14115_PF-SOCKET-CXA15-18

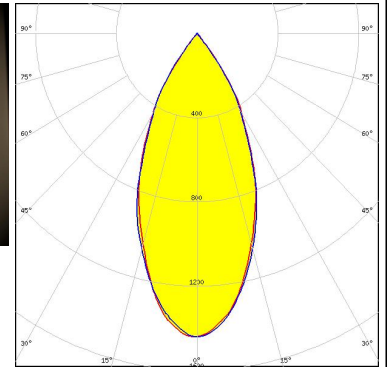
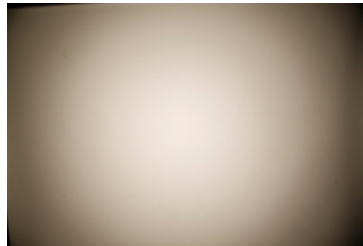


Light distribution files

OPTICAL RESULTS (MEASURED):



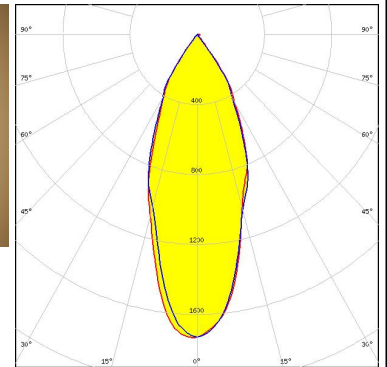
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
 FWHM / FWTM 46.0° / 75.0°
 Efficiency 86 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 437 Typ L1



Light distribution files



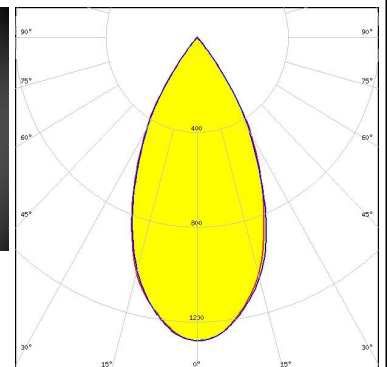
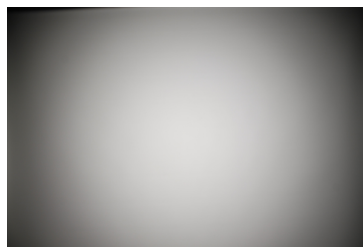
LED LUXEON CoB 1202/1203
 FWHM / FWTM 39.0° / 73.0°
 Efficiency 88 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 438 Typ L1



Light distribution files



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

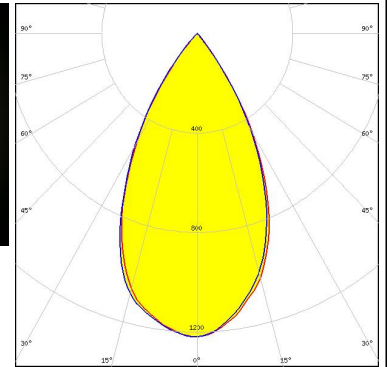


Light distribution files

OPTICAL RESULTS (MEASURED):



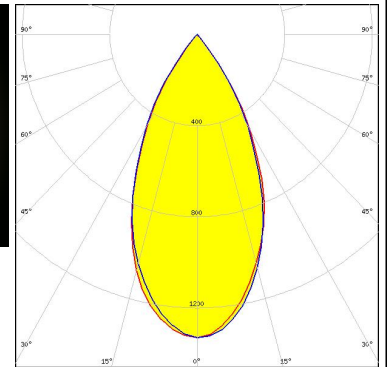
LED COB J-Type
 FWHM / FWTM 55.0° / 78.0°
 Efficiency 90 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C14037_PF-NSX-SOCKET



Light distribution files



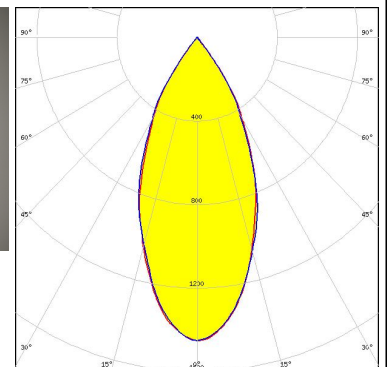
LED COB L-Type (LES 11)
 FWHM / FWTM 51.0° / 77.0°
 Efficiency 90 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C14037_PF-NSX-SOCKET



Light distribution files



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

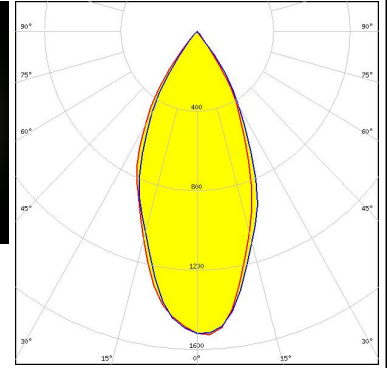


Light distribution files

OPTICAL RESULTS (MEASURED):



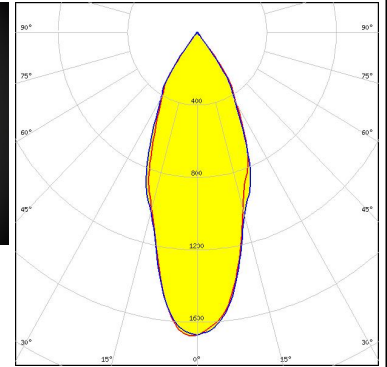
LED COB L-Type (LES 9)
FWHM / FWTM 47.0° / 76.0°
Efficiency 91 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
 C14037_PF-NSX-SOCKET



Light distribution files



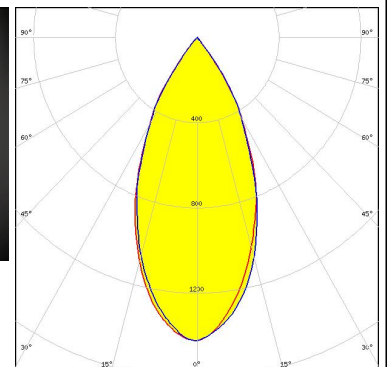
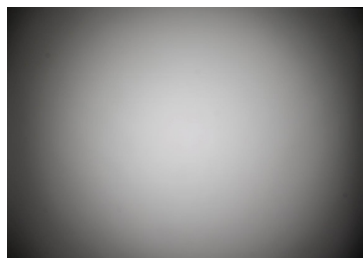
LED COB L-Type (LES 9)
FWHM / FWTM 41.0° / 74.0°
Efficiency 89 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 438 Typ L1



Light distribution files



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

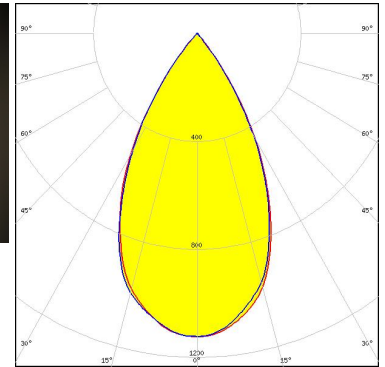
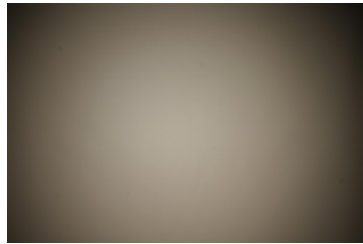


Light distribution files

OPTICAL RESULTS (MEASURED):

SAMSUNG

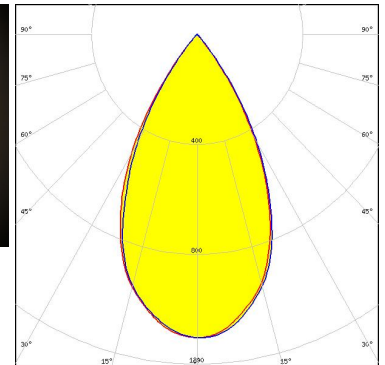
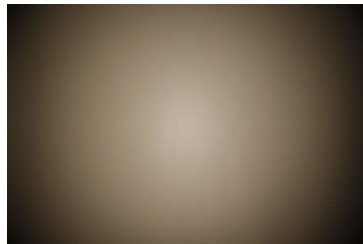
LED LC026B / 033B / 040B
FWHM / FWTM 55.0° / 78.0°
Efficiency 86 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
C13709_PF-SOCKET-VERO13-18
Bender Wirth: 450 Typ L2



Light distribution files

XICATO

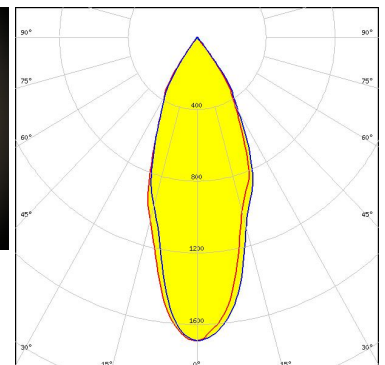
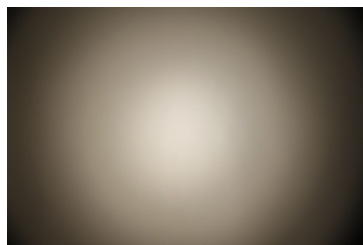
LED XTM - 19mm LES
FWHM / FWTM 55.0° / 78.0°
Efficiency 84 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
C14636_XTM-PF-ADAPTER



Light distribution files

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/type White
Required components:
C14636_XTM-PF-ADAPTER



Light distribution files

OPTICAL RESULTS (SIMULATED):



LED VERO10
FWHM / FWTM 66.0°
Efficiency %
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files



LED VERO13
FWHM / FWTM 67.0°
Efficiency %
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files



LED VERO18
FWHM / FWTM 68.0°
Efficiency %
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files

OPTICAL RESULTS (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/type White

Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 433 Typ L1

[Light distribution files](#)



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/type White

Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 434 Typ L1

[Light distribution files](#)



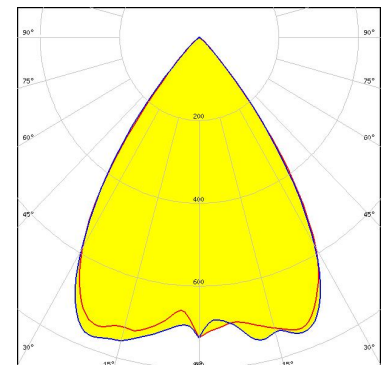
LED Soleriq S15
FWHM / FWTM 73.0° / 88.0°
Efficiency 90 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:


C13709_PF-SOCKET-VERO13-18

Bender Wirth: 433 Typ L1

[Light distribution files](#)



OPTICAL RESULTS (SIMULATED):

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

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

Poznan, Poland
Hong Kong, China

Distribution Partners

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