

BARBARA-W-PF

~35° wide beam

SPECIFICATION:

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

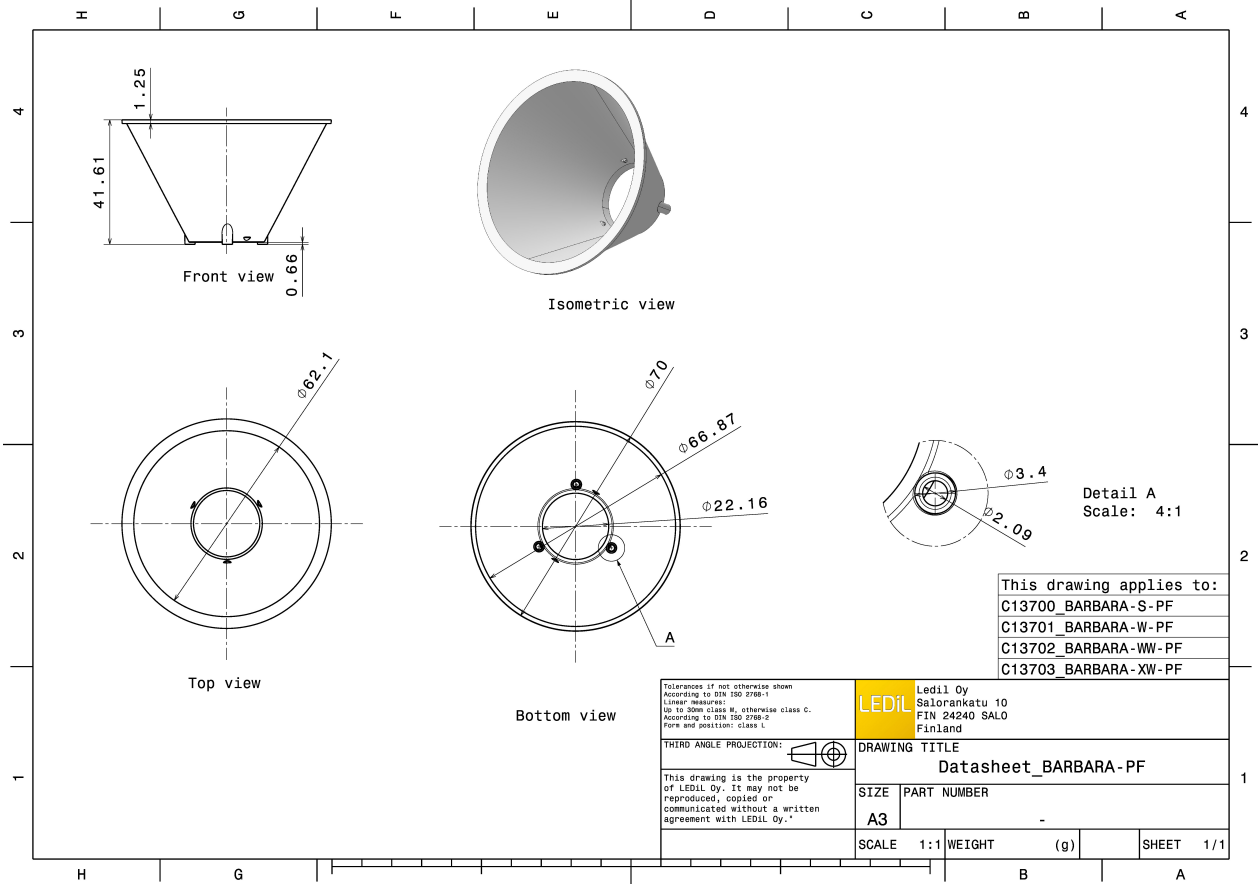
MATERIALS:

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	5.6



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

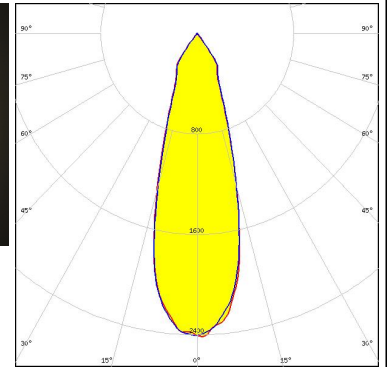
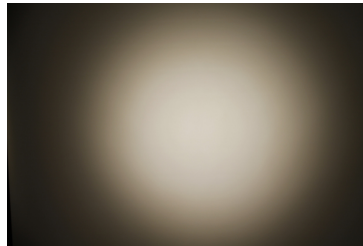
OPTICAL RESULTS (MEASURED):

bridgelux

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

Required components:

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



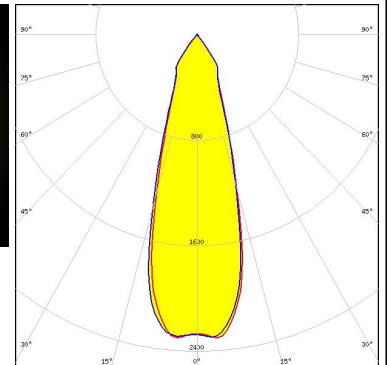
Light distribution files

bridgelux

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

Required components:

C13708_PF-SOCKET-VERO10



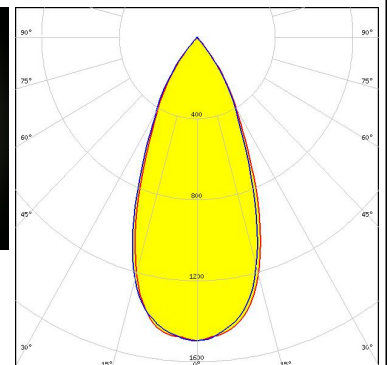
Light distribution files

bridgelux

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

Required components:

C13709_PF-SOCKET-VERO13-18

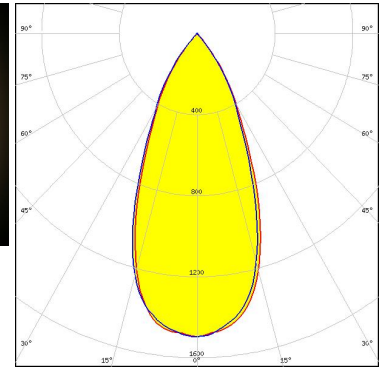
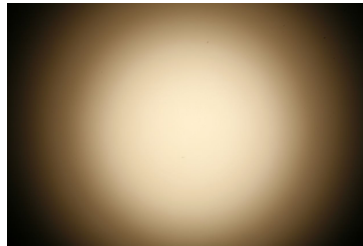


Light distribution files

OPTICAL RESULTS (MEASURED):



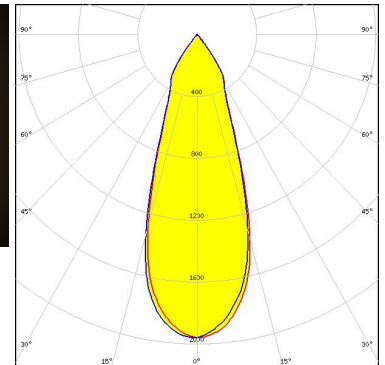
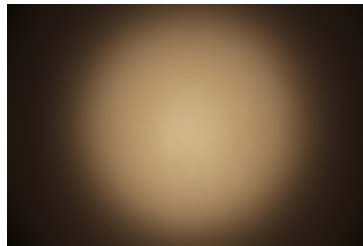
LED VERO18
FWHM / FWTM 45.0° / 76.0°
Efficiency 92 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
C13709_PF-SOCKET-VERO13-18



Light distribution files



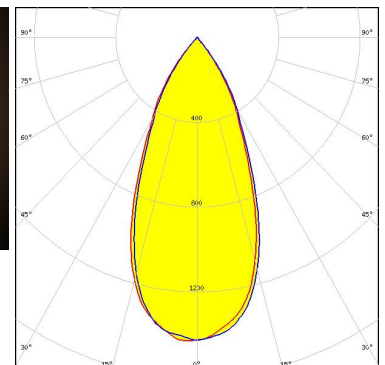
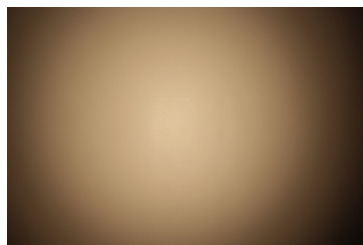
LED Xenio Point 13mm
FWHM / FWTM 36.0° / 73.0°
Efficiency 91 %
Peak intensity 2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
C13709_PF-SOCKET-VERO13-18



Light distribution files



LED Xenio Point 18mm
FWHM / FWTM 46.0° / 77.0°
Efficiency 89 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
C13709_PF-SOCKET-VERO13-18

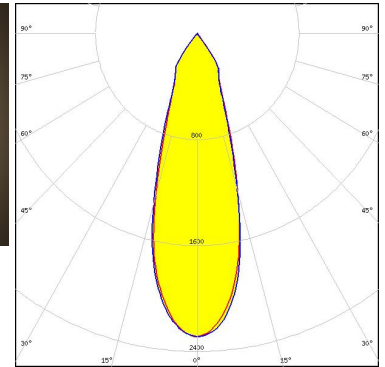
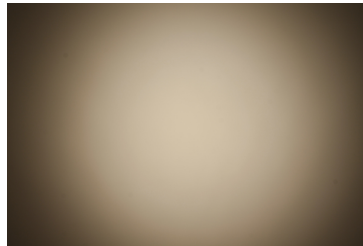


Light distribution files

OPTICAL RESULTS (MEASURED):

CITIZEN

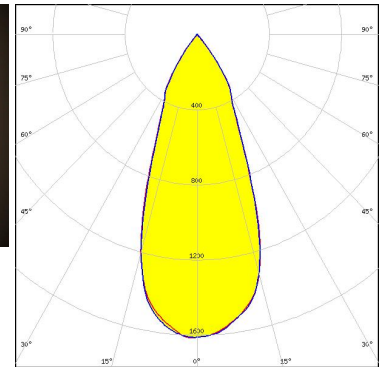
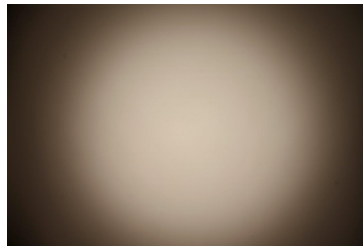
LED CLL02x/CLU02x (LES10)
 FWHM / FWTM 32.0° / 71.0°
 Efficiency 88 %
 Peak intensity 2.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 434 Typ L1



Light distribution files

CITIZEN

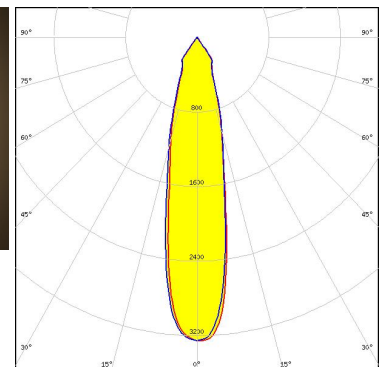
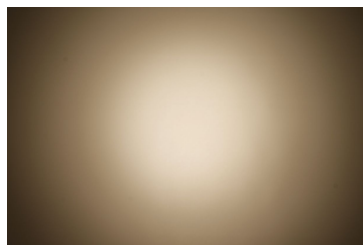
LED CLL03x/CLU03x
 FWHM / FWTM 41.0° / 73.0°
 Efficiency 87 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 433 Typ L1



Light distribution files

CITIZEN

LED CLU700/701/702/703
 FWHM / FWTM 22.0° / 61.0°
 Efficiency 89 %
 Peak intensity 3.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 434 Typ L1

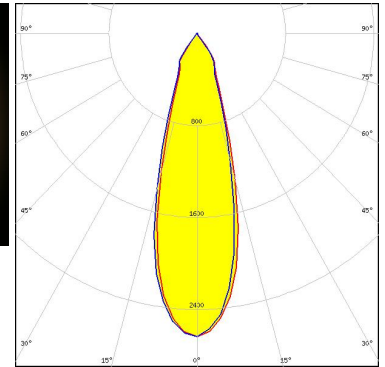


Light distribution files

OPTICAL RESULTS (MEASURED):



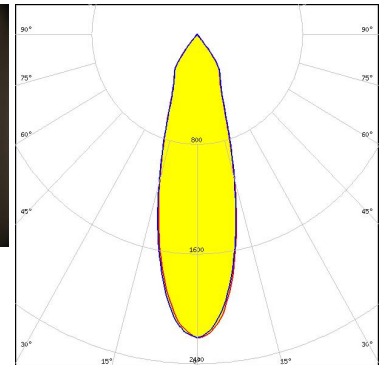
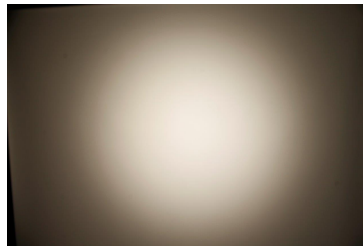
LED CXA/B 15xx
 FWHM / FWTM 30.0° / 69.0°
 Efficiency 91 %
 Peak intensity 2.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C14115_PF-SOCKET-CXA15-18



Light distribution files



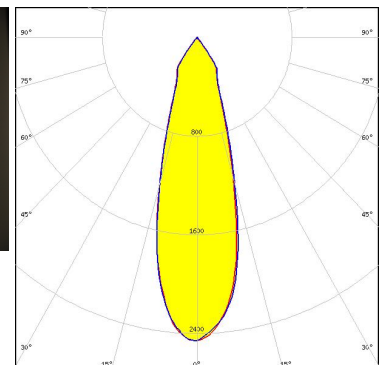
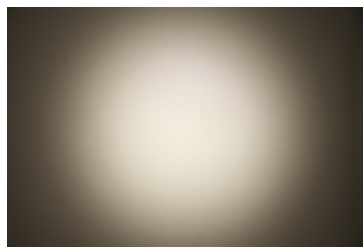
LED CXA/B 15xx
 FWHM / FWTM 30.0° / 73.0°
 Efficiency 85 %
 Peak intensity 2.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13083_PF-SOCKET
 C14658_BARBARA-RZ-LENS



Light distribution files



LED CXA/B 15xx
 FWHM / FWTM 30.0° / 70.0°
 Efficiency 88 %
 Peak intensity 2.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 441 Typ L1

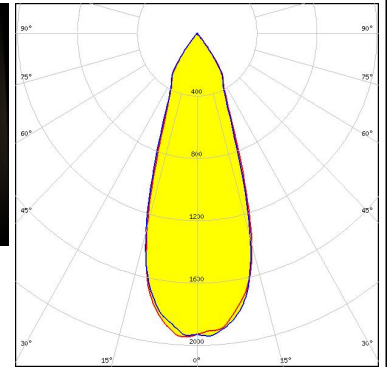
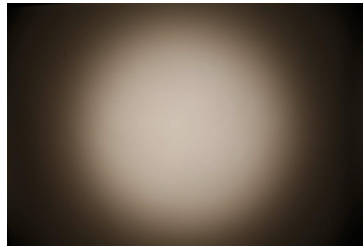


Light distribution files

OPTICAL RESULTS (MEASURED):



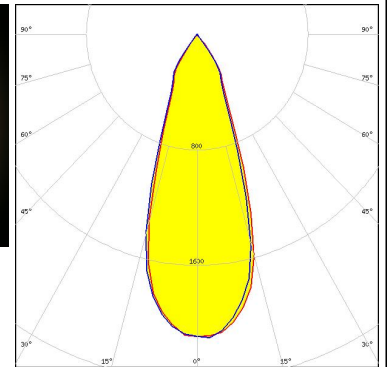
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
 FWHM / FWTM 36.0° / 72.0°
 Efficiency 88 %
 Peak intensity 2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 437 Typ L1



Light distribution files



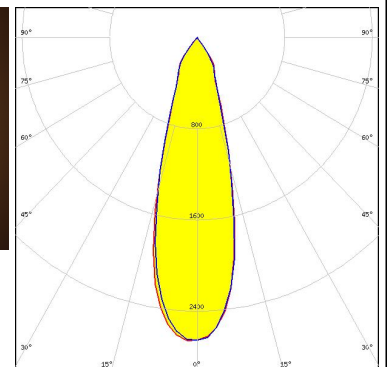
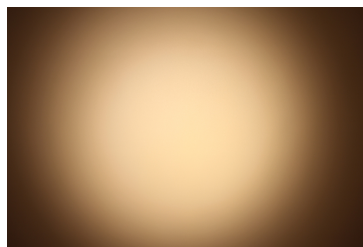
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
 FWHM / FWTM 36.0° / 71.0°
 Efficiency 94 %
 Peak intensity 2.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C14115_PF-SOCKET-CXA15-18



Light distribution files



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/type White
 Required components:
 C14037_PF-NSX-SOCKET

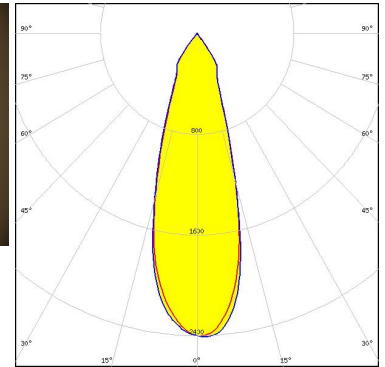
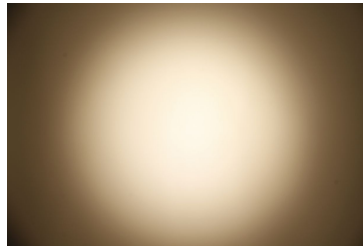


Light distribution files

OPTICAL RESULTS (MEASURED):



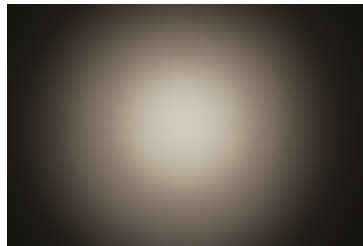
LED LUXEON CoB 1202/1203
FWHM / FWTM 31.0° / 70.0°
Efficiency 90 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
C13709_PF-SOCKET-VERO13-18
Bender Wirth: 438 Typ L1



Light distribution files



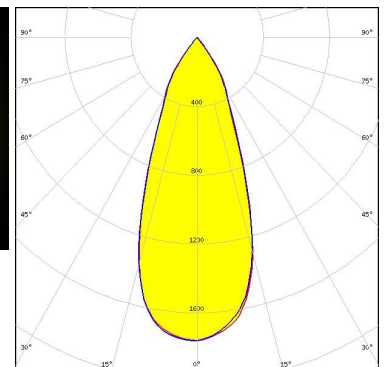
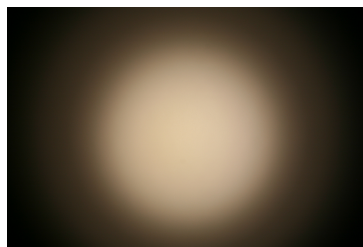
LED LUXEON CoB 1202s
FWHM / FWTM 20.0° / 52.0°
Efficiency 92 %
Peak intensity 4.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
C13761_PF-SOCKET-CXA15



Light distribution files



LED COB J-Type
FWHM / FWTM 41.0° / 74.0°
Efficiency 92 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
C14037_PF-NSX-SOCKET



Light distribution files

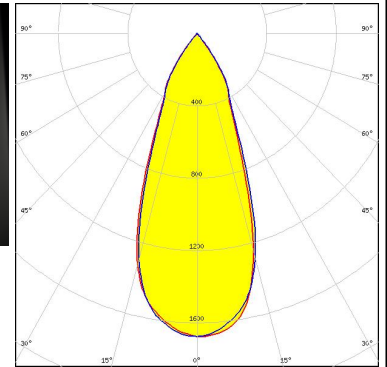
OPTICAL RESULTS (MEASURED):



LED COB J-Type
 FWHM / FWTM 40.0° / 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: 463 Typ L2



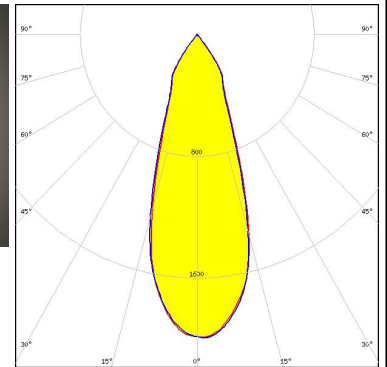
Light distribution files



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/type White

Required components:

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



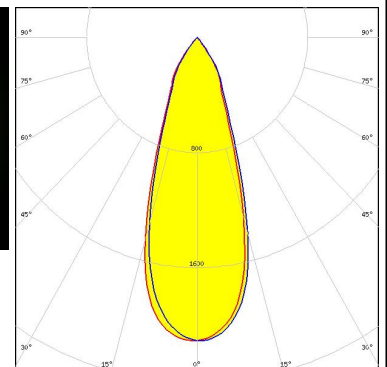
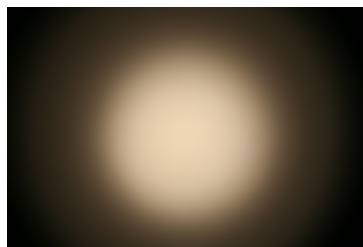
Light distribution files



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/type White

Required components:

C14037_PF-NSX-SOCKET

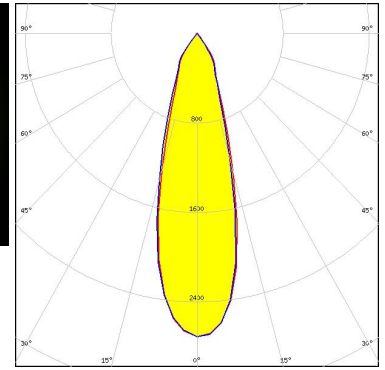


Light distribution files

OPTICAL RESULTS (MEASURED):



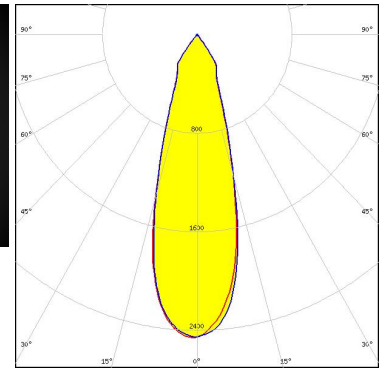
LED COB L-Type (LES 9)
FWHM / FWTM 30.0° / 68.0°
Efficiency 92 %
Peak intensity 2.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
C14037_PF-NSX-SOCKET



Light distribution files



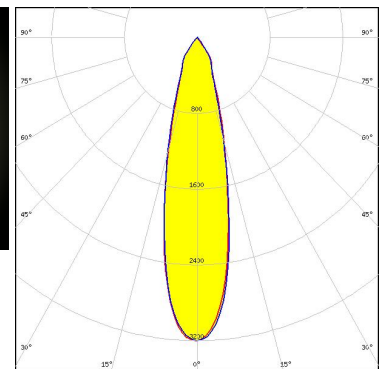
LED COB L-Type (LES 9)
FWHM / FWTM 30.0° / 70.0°
Efficiency 91 %
Peak intensity 2.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
C13709_PF-SOCKET-VERO13-18
Bender Wirth: 438 Typ L1



Light distribution files



LED NSCxL036A
FWHM / FWTM 25.0° / 60.0°
Efficiency 90 %
Peak intensity 3.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
C14037_PF-NSX-SOCKET



Light distribution files

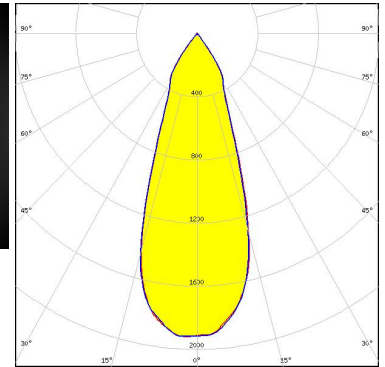
OPTICAL RESULTS (MEASURED):

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/type White

Required components:

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



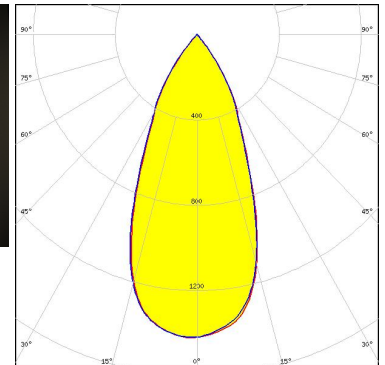
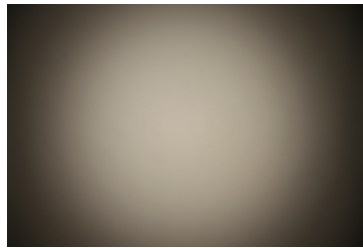
Light distribution files

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/type White

Required components:

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



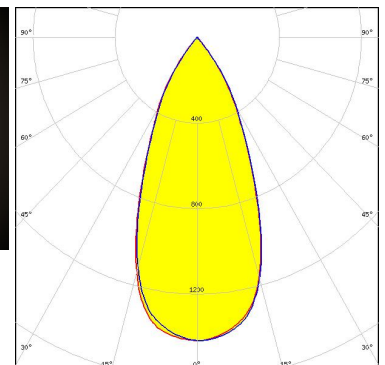
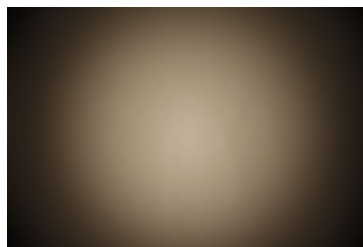
Light distribution files

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/type White

Required components:

C14636_XTM-PF-ADAPTER

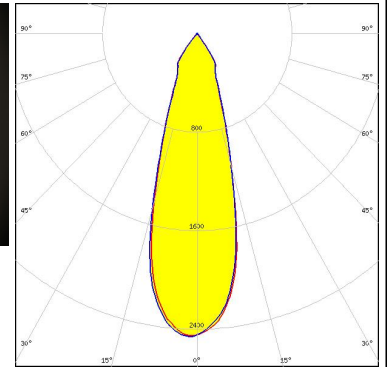
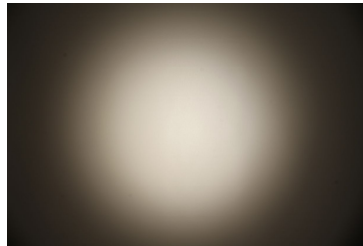


Light distribution files

OPTICAL RESULTS (MEASURED):

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/type White
Required components:
C14636_XTM-PF-ADAPTER



Light distribution files

OPTICAL RESULTS (SIMULATED):

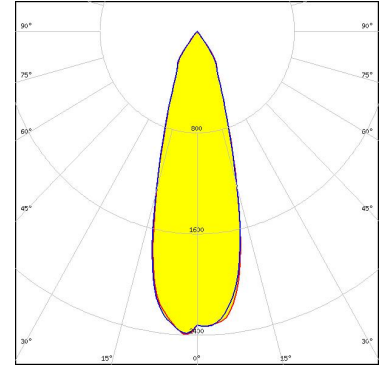


LED V10 Gen7
FWHM / FWTM 31.0° / 69.0°
Efficiency 90 %
Peak intensity 2.5 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 486 Typ L1



Light distribution files



LED VERO10
FWHM / FWTM 30.0°
Efficiency %
LEDs/each optic 1
Light colour/type White

Required components:

Light distribution files



LED VERO13
FWHM / FWTM 34.0°
Efficiency %
LEDs/each optic 1
Light colour/type White

Required components:

Light distribution files

OPTICAL RESULTS (SIMULATED):



LED VERO18
FWHM / FWTM 43.0°
Efficiency %
LEDs/each optic 1
Light colour/type White
Required components:

[Light distribution files](#)



LED CXA/B 15xx
FWHM / FWTM 28.0°
Efficiency %
LEDs/each optic 1
Light colour/type White
Required components:



LED LUXEON CoB Compact
FWHM / FWTM 20.0° / 52.0°
Efficiency 92 %
Peak intensity 4.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
C13761_PF-SOCKET-CXA15

[Light distribution files](#)

OPTICAL RESULTS (SIMULATED):



LED CxM-14 (19x19)
FWHM / FWTM 41.0° / 73.0°
Efficiency 87 %
Peak intensity 1.6 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 32.0° / 71.0°
Efficiency 88 %
Peak intensity 2.3 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](#)



Osram Semiconductors

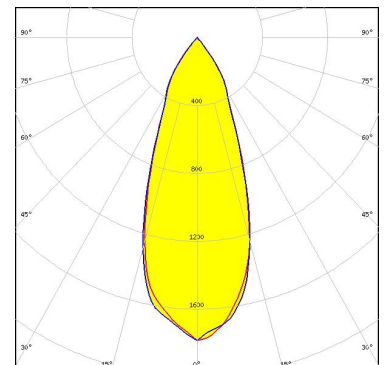
LED Soleriq S15
FWHM / FWTM 39.0° / 74.0°
Efficiency 90 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 433 Typ L1

[Light distribution files](#)



OPTICAL RESULTS (SIMULATED):

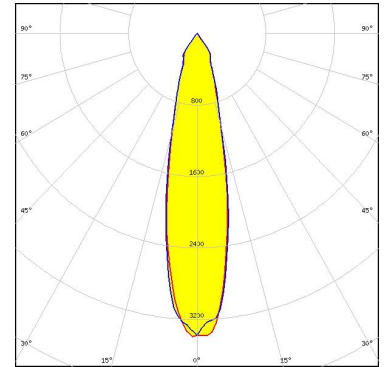
SAMSUNG

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

Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 479 Typ L1



Light distribution files

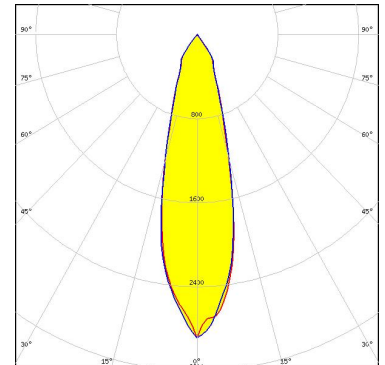
SAMSUNG

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

Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 479 Typ L1



Light distribution files

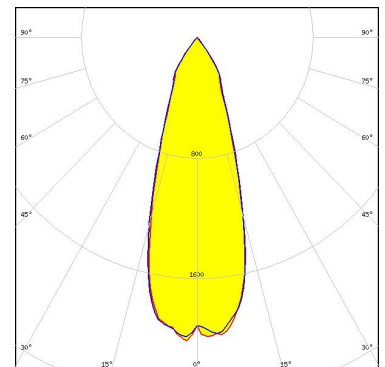
SAMSUNG

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

Required components:


C13709_PF-SOCKET-VERO13-18


Bender Wirth: 480 Typ L1



Light distribution files

OPTICAL RESULTS (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/type	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/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.

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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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