

BARBARA-S-PF

~15° spot beam

SPECIFICATION:

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

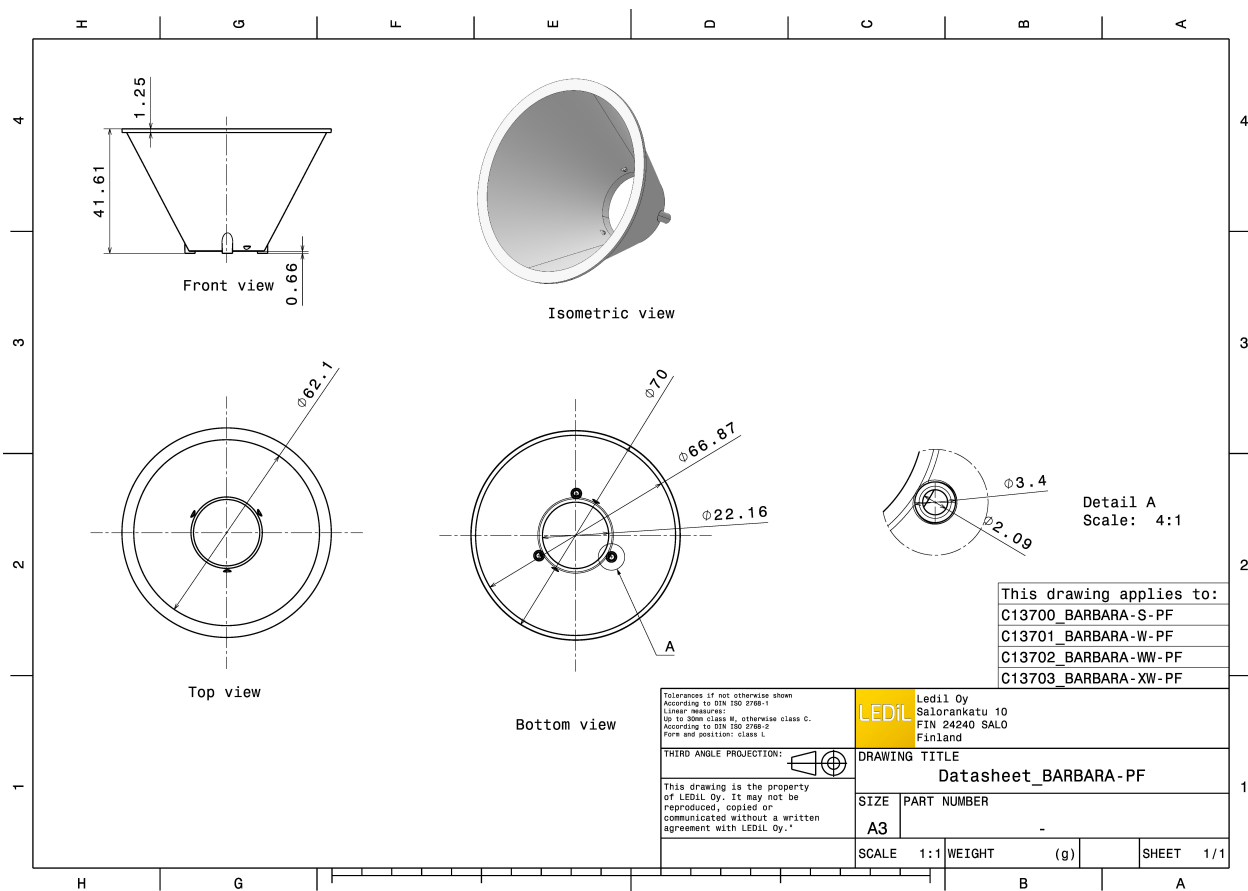
MATERIALS:

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



ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
F13700_BARBARA-S-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

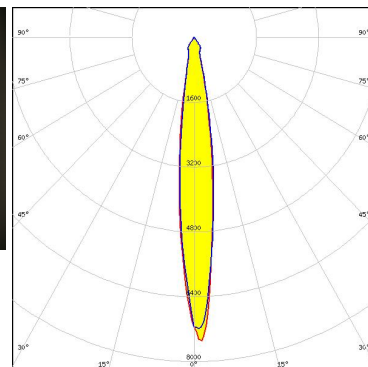
OPTICAL RESULTS (MEASURED):



LED V10 Gen7
FWHM / FWTM 14.0° / 30.0°
Efficiency 88 %
Peak intensity 7.5 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:

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



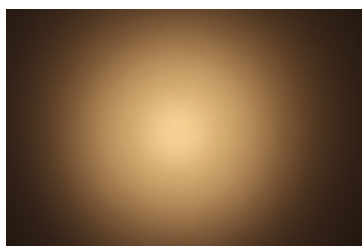
Light distribution files



LED V15 Gen6
FWHM / FWTM 18.0° / 52.0°
Efficiency 92 %
Peak intensity 4.8 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:

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



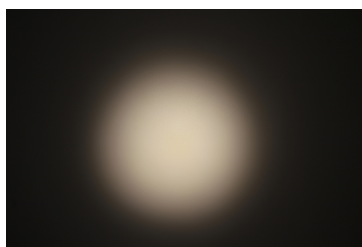
Light distribution files



LED V8 Gen6
FWHM / FWTM 13.0° / 28.0°
Efficiency 86 %
Peak intensity 10.6 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:

C13709_PF-SOCKET-VERO13-18
Bender Wirth: 460 Typ L1

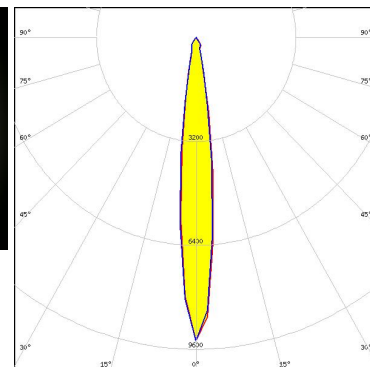


Light distribution files

OPTICAL RESULTS (MEASURED):



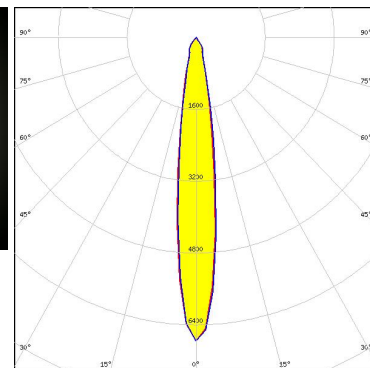
LED VERO10
 FWHM / FWTM 13.0° / 27.0°
 Efficiency 90 %
 Peak intensity 9.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13708_PF-SOCKET-VERO10



Light distribution files



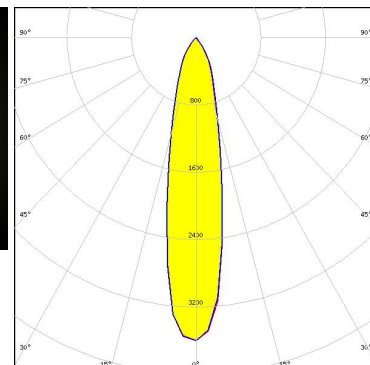
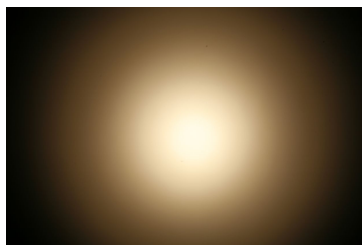
LED VERO13
 FWHM / FWTM 15.0° / 35.0°
 Efficiency 91 %
 Peak intensity 6.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13709_PF-SOCKET-VERO13-18



Light distribution files



LED VERO18
 FWHM / FWTM 22.0° / 58.0°
 Efficiency 91 %
 Peak intensity 3.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13709_PF-SOCKET-VERO13-18

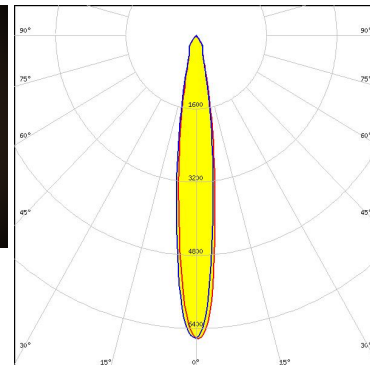


Light distribution files

OPTICAL RESULTS (MEASURED):



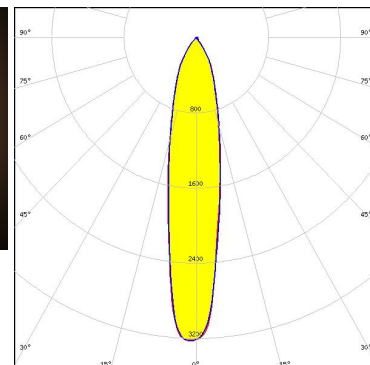
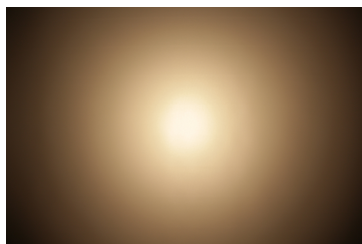
LED Xenio Point 13mm
 FWHM / FWTM 14.0° / 33.0°
 Efficiency 91 %
 Peak intensity 6.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13709_PF-SOCKET-VERO13-18



Light distribution files



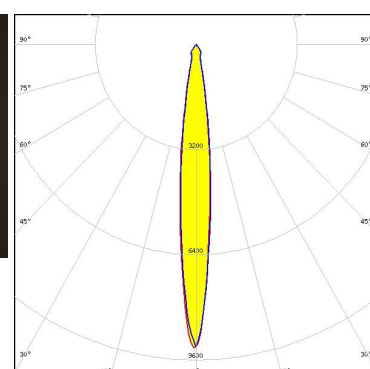
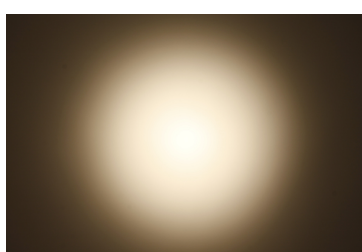
LED Xenio Point 18mm
 FWHM / FWTM 21.0° / 60.0°
 Efficiency 86 %
 Peak intensity 3.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13709_PF-SOCKET-VERO13-18



Light distribution files

CITIZEN

LED CLL02x/CLU02x (LES10)
 FWHM / FWTM 12.0° / 27.0°
 Efficiency 89 %
 Peak intensity 9.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 434 Typ L1

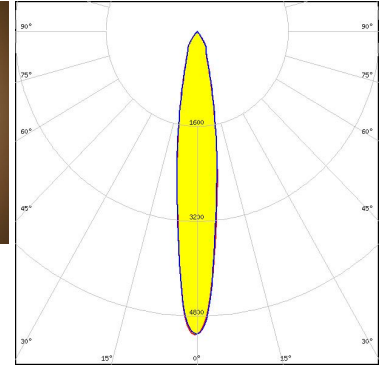
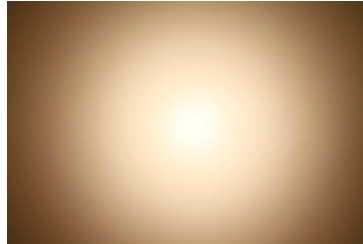


Light distribution files

OPTICAL RESULTS (MEASURED):

CITIZEN

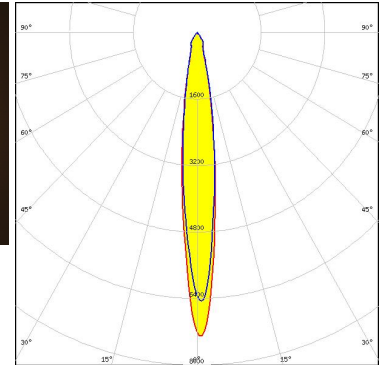
LED CLL03x/CLU03x
 FWHM / FWTM 16.0° / 42.0°
 Efficiency 88 %
 Peak intensity 5.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 433 Typ L1



Light distribution files

CITIZEN

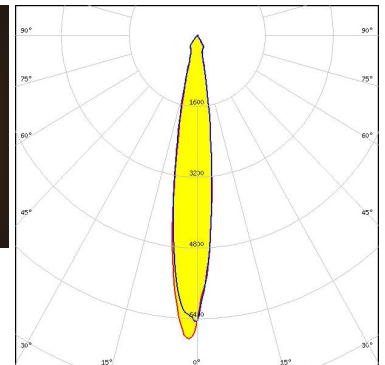
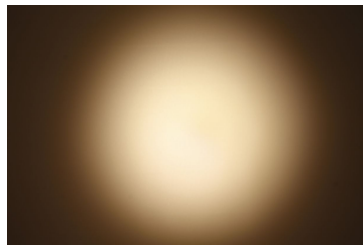
LED CLU720/721/723
 FWHM / FWTM 14.0° / 33.0°
 Efficiency 87 %
 Peak intensity 7.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 433 Typ L1



Light distribution files



LED CXA/B 15xx
 FWHM / FWTM 15.0° / 30.0°
 Efficiency 89 %
 Peak intensity 6.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 441 Typ L1

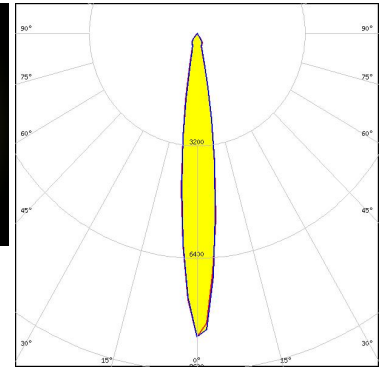


Light distribution files

OPTICAL RESULTS (MEASURED):



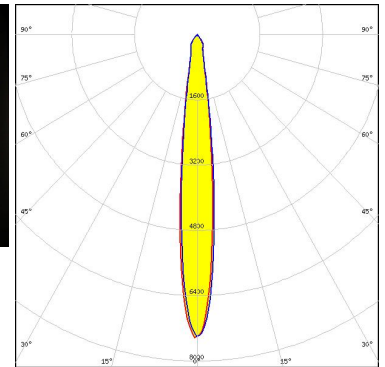
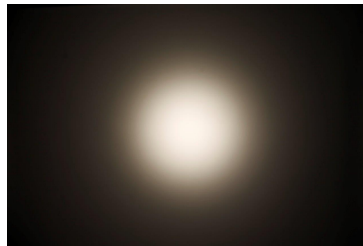
LED CXA/B 15xx
 FWHM / FWTM 14.0° / 29.0°
 Efficiency 91 %
 Peak intensity 8.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C14115_PF-SOCKET-CXA15-18



Light distribution files



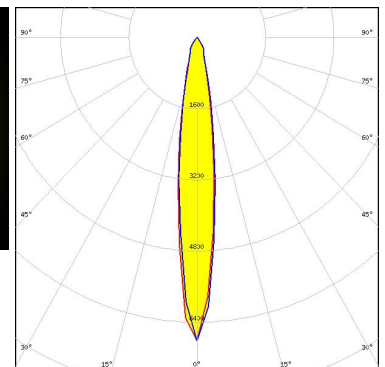
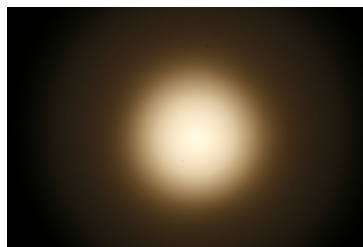
LED CXA/B 15xx
 FWHM / FWTM 13.0° / 29.0°
 Efficiency 85 %
 Peak intensity 7.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13083_PF-SOCKET
 C14658_BARBARA-RZ-LENS



Light distribution files



LED CXA/B 1816 & CXA/B 1820 & CXA 1850
 FWHM / FWTM 15.0° / 36.0°
 Efficiency 92 %
 Peak intensity 6.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C14115_PF-SOCKET-CXA15-18

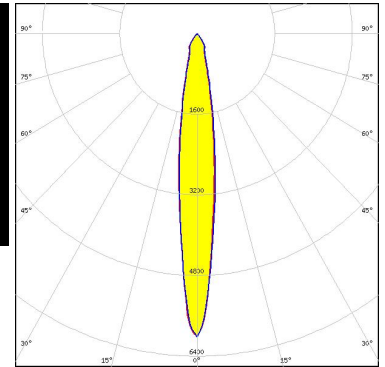


Light distribution files

OPTICAL RESULTS (MEASURED):



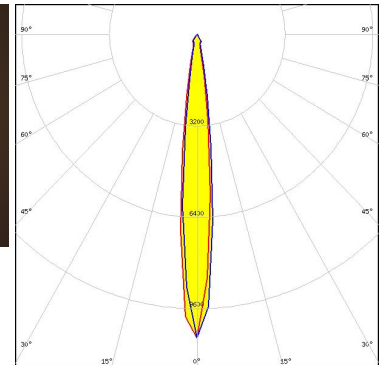
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
 FWHM / FWTM 14.0° / 36.0°
 Efficiency 86 %
 Peak intensity 6.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 437 Typ L1



Light distribution files



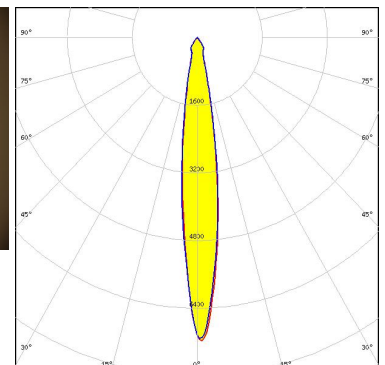
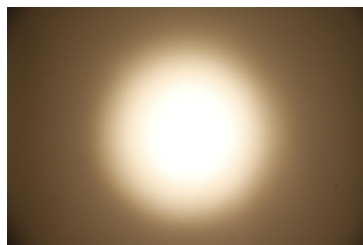
LED LUXEON CoB 1202/1203
 FWHM / FWTM 12.0° / 25.0°
 Efficiency 90 %
 Peak intensity 10.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C14037_PF-NSX-SOCKET



Light distribution files



LED LUXEON CoB 1202/1203
 FWHM / FWTM 14.0° / 30.0°
 Efficiency 88 %
 Peak intensity 7.3 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):



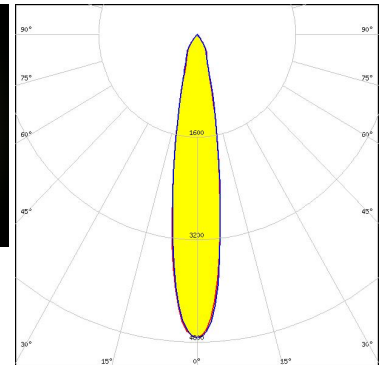
LED LUXEON CoB 1202s
 FWHM / FWTM 9.0° / 18.0°
 Efficiency 90 %
 Peak intensity 19.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13761_PF-SOCKET-CXA15



Light distribution files



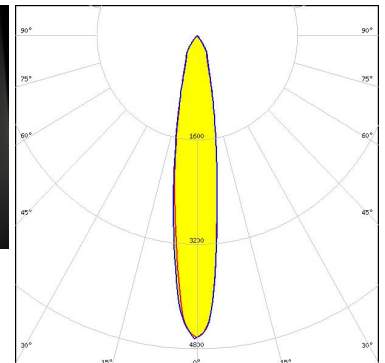
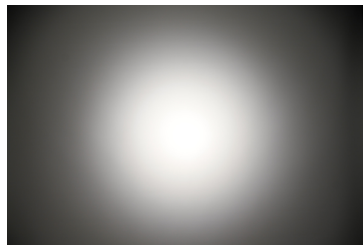
LED COB J-Type
 FWHM / FWTM 19.0° / 44.0°
 Efficiency 91 %
 Peak intensity 4.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C14037_PF-NSX-SOCKET



Light distribution files



LED COB J-Type
 FWHM / FWTM 17.0° / 45.0°
 Efficiency 88 %
 Peak intensity 4.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 463 Typ L2

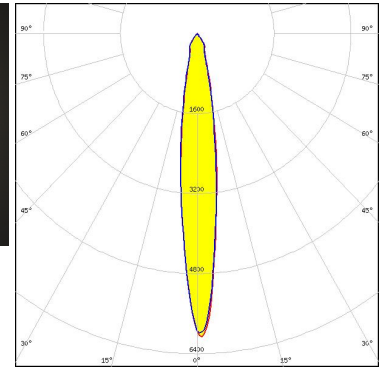
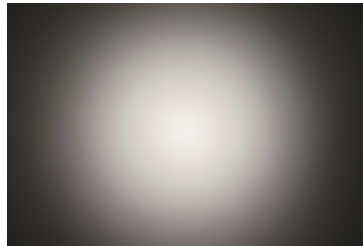


Light distribution files

OPTICAL RESULTS (MEASURED):



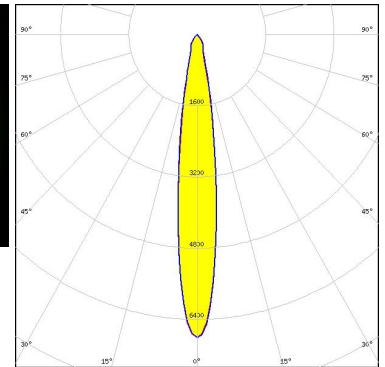
LED COB L-Type (LES 11)
 FWHM / FWTM 14.0° / 35.0°
 Efficiency 86 %
 Peak intensity 6.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 438 Typ L1



Light distribution files



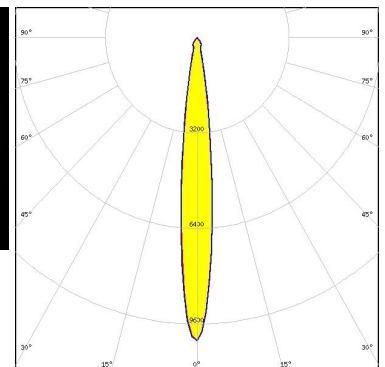
LED COB L-Type (LES 11)
 FWHM / FWTM 15.0° / 33.0°
 Efficiency 90 %
 Peak intensity 6.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C14037_PF-NSX-SOCKET



Light distribution files



LED COB L-Type (LES 9)
 FWHM / FWTM 13.0° / 26.0°
 Efficiency 90 %
 Peak intensity 10.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C14037_PF-NSX-SOCKET

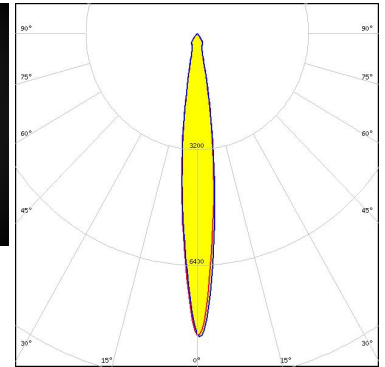


Light distribution files

OPTICAL RESULTS (MEASURED):



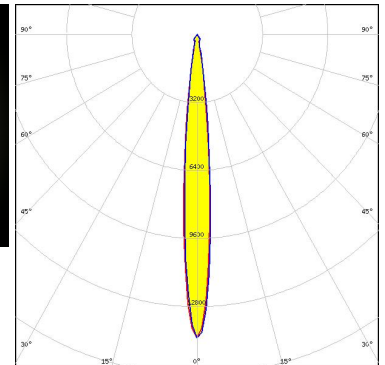
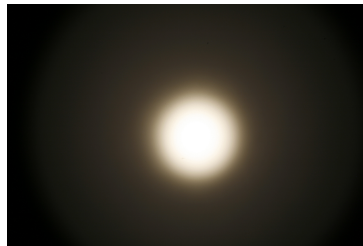
LED COB L-Type (LES 9)
 FWHM / FWTM 13.0° / 27.0°
 Efficiency 90 %
 Peak intensity 8.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 438 Typ L1



Light distribution files



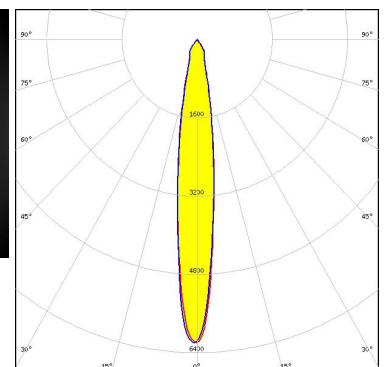
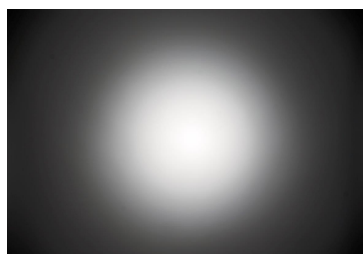
LED NSCxL036A
 FWHM / FWTM 11.0° / 21.0°
 Efficiency 89 %
 Peak intensity 14.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C14037_PF-NSX-SOCKET



Light distribution files



LED Soleriq S13
 FWHM / FWTM 14.0° / 35.0°
 Efficiency 89 %
 Peak intensity 6.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 437 Typ L1

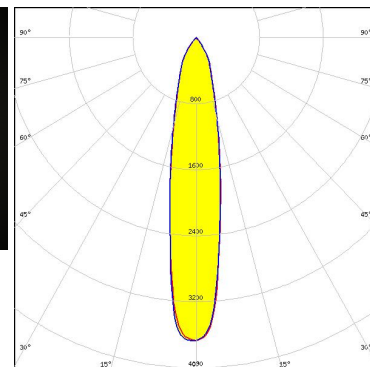
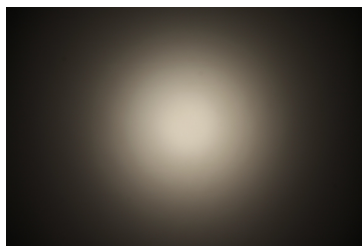


Light distribution files

OPTICAL RESULTS (MEASURED):

SAMSUNG

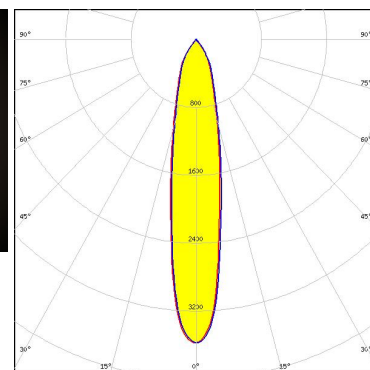
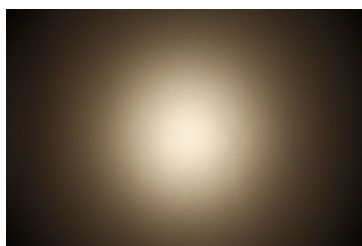
LED LC026B / 033B / 040B
 FWHM / FWTM 20.0° / 57.0°
 Efficiency 88 %
 Peak intensity 3.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 450 Typ L2



Light distribution files

XICATO

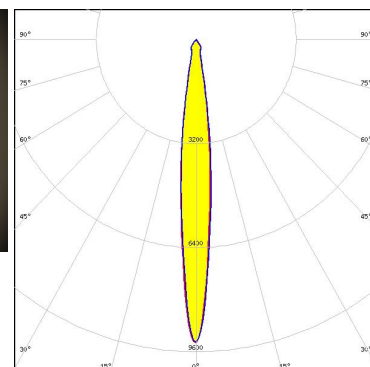
LED XTM - 19mm LES
 FWHM / FWTM 20.0° / 58.0°
 Efficiency 88 %
 Peak intensity 3.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C14636_XTM-PF-ADAPTER



Light distribution files

XICATO

LED XTM - 9mm LES
 FWHM / FWTM 12.0° / 26.0°
 Efficiency 90 %
 Peak intensity 9.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C14636_XTM-PF-ADAPTER



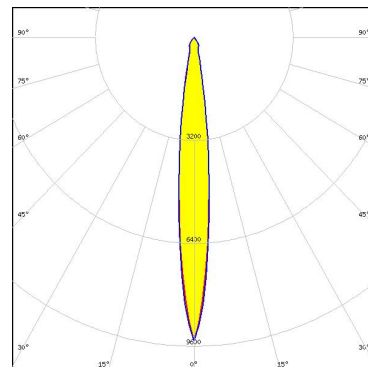
Light distribution files

OPTICAL RESULTS (SIMULATED):



LED V10 Gen7
 FWHM / FWTM 12.0° / 27.0°
 Efficiency 91 %
 Peak intensity 9.4 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 13.0°
 Efficiency 0 %
 LEDs/each optic 1
 Light colour/type White
 Required components:

Light distribution files



LED VERO13
 FWHM / FWTM 15.0°
 Efficiency 0 %
 LEDs/each optic 1
 Light colour/type White
 Required components:

Light distribution files

OPTICAL RESULTS (SIMULATED):



LED VERO18
FWHM / FWTM 21.0°
Efficiency 0 %
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files



LED CXA/B 15xx
FWHM / FWTM 12.0°
Efficiency 0 %
LEDs/each optic 1
Light colour/type White
Required components:



LED LUXEON CoB Compact
FWHM / FWTM 9.0° / 18.0°
Efficiency 90 %
Peak intensity 19.6 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 16.0° / 42.0°
 Efficiency 88 %
 Peak intensity 5.1 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 12.0° / 27.0°
 Efficiency 89 %
 Peak intensity 9.2 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



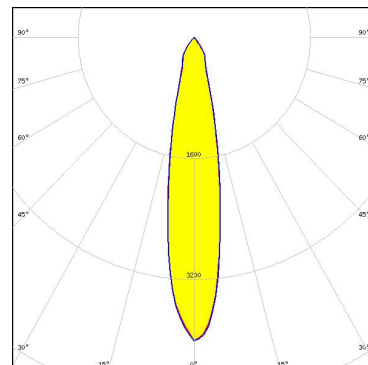
LED Soleriq S15
 FWHM / FWTM 20.0° / 47.0°
 Efficiency 88 %
 Peak intensity 4 cd/lm
 LEDs/each optic 1
 Light colour/type White

Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 433 Typ L1

Light distribution files

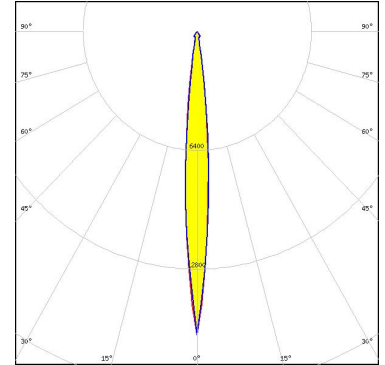


OPTICAL RESULTS (SIMULATED):

SAMSUNG

LED LC010C
FWHM / FWTM 9.1° / 19.0°
Efficiency 89 %
Peak intensity 16.3 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:
C13709_PF-SOCKET-VERO13-18



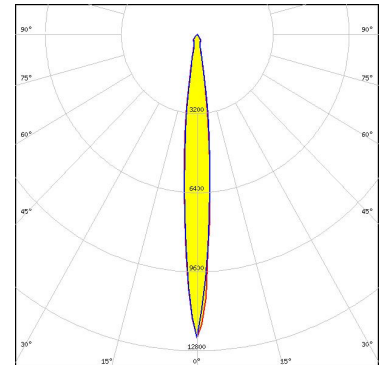
Bender Wirth: 479 Typ L1

Light distribution files

SAMSUNG

LED LC020C
FWHM / FWTM 10.0° / 23.0°
Efficiency 89 %
Peak intensity 12.3 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:
C13709_PF-SOCKET-VERO13-18



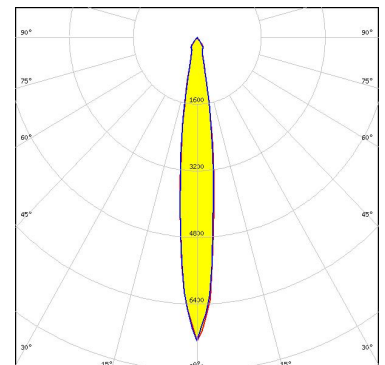
Bender Wirth: 479 Typ L1

Light distribution files

SAMSUNG

LED LC040C
FWHM / FWTM 13.0° / 30.0°
Efficiency 85 %
Peak intensity 7.3 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	16.0° / 42.0°
Efficiency	88 %
Peak intensity	5.1 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	12.0° / 27.0°
Efficiency	89 %
Peak intensity	9.2 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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