

BARBARA-W-PF

~35° wide beam

TECHNICAL SPECIFICATIONS:

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

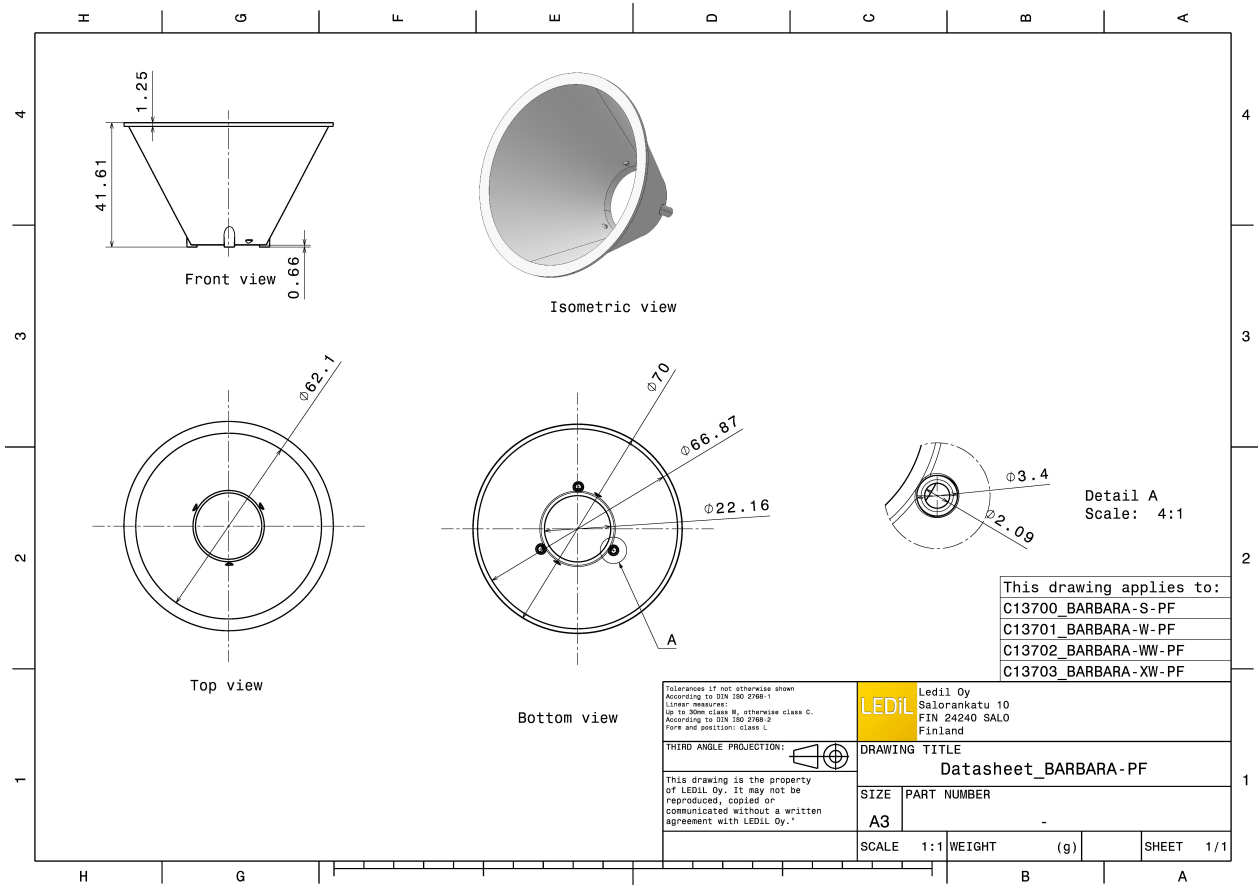
MATERIAL SPECIFICATIONS:

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



ORDERING INFORMATION:

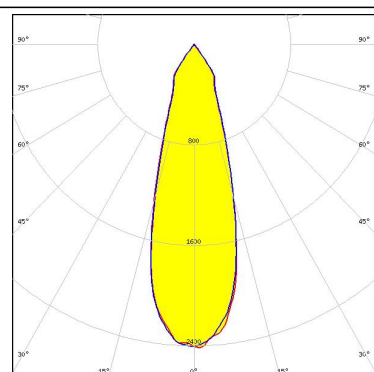
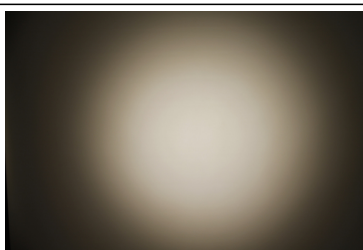
Component	Qty in box	MOQ	MPQ	Box weight (kg)
F13701_BARBARA-W-PF » Box size: 480 x 280 x 300 mm	288	90	18	7.7



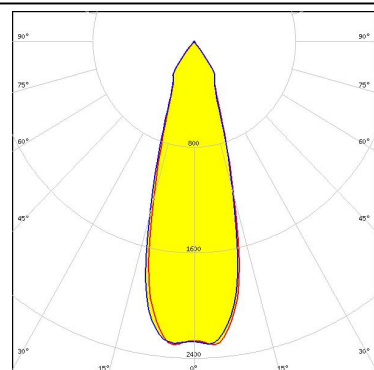
PHOTOMETRIC DATA (MEASURED):



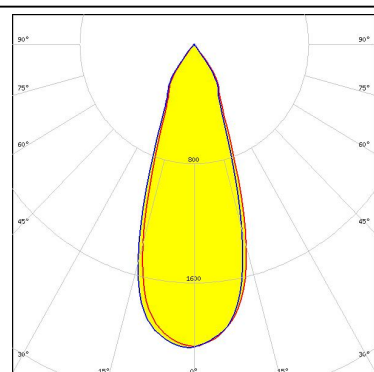
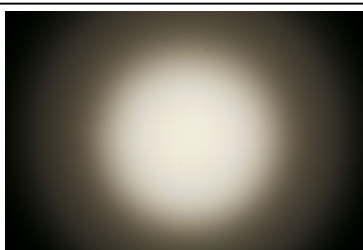
LED V10 Gen7
 FWHM 31.0°
 Efficiency 90 %
 Peak intensity 2.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 434 Typ L1



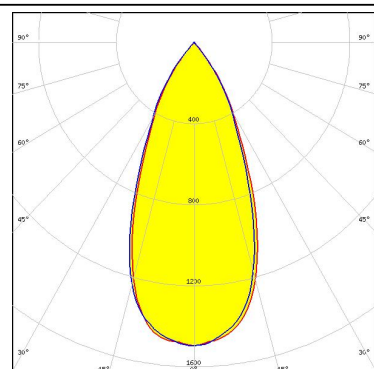
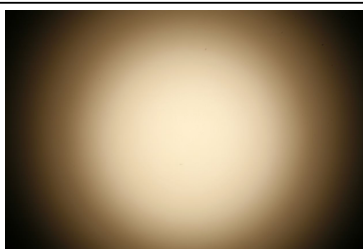
LED VERO10
 FWHM 31.0°
 Efficiency 91 %
 Peak intensity 2.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13708_PF-SOCKET-VERO10



LED VERO13
 FWHM 36.0°
 Efficiency 93 %
 Peak intensity 2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18



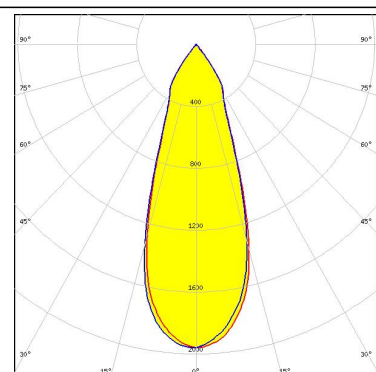
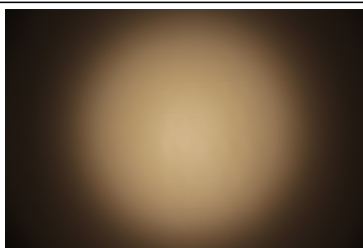
LED VERO18
 FWHM 45.0°
 Efficiency 92 %
 Peak intensity 1.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18



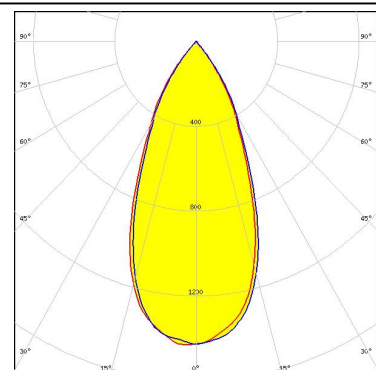
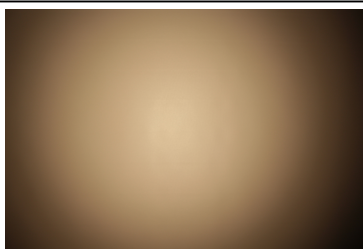
PHOTOMETRIC DATA (MEASURED):



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

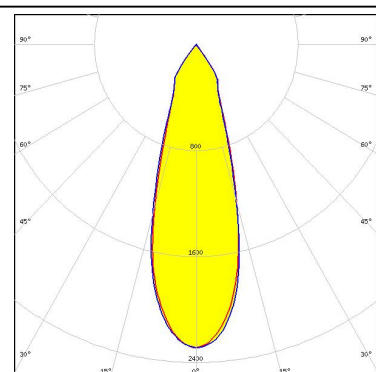
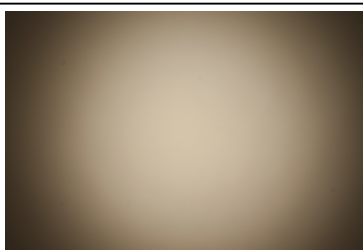


LED Xenio Point 18mm
 FWHM 46.0°
 Efficiency 89 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18



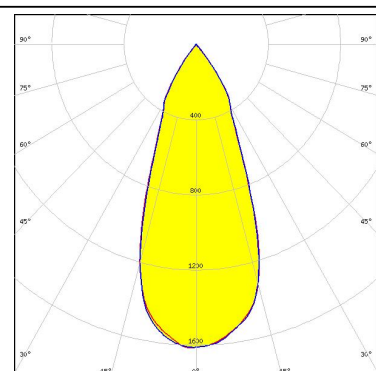
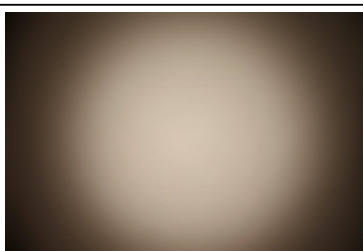
CITIZEN

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



CITIZEN

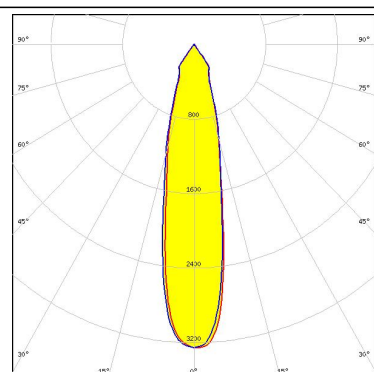
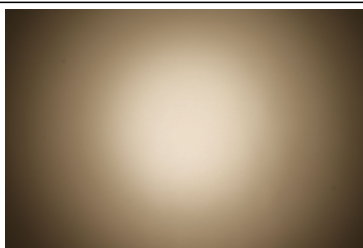
LED CLL03x/CLU03x
 FWHM 41.0°
 Efficiency 87 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 433 Typ L1



PHOTOMETRIC DATA (MEASURED):

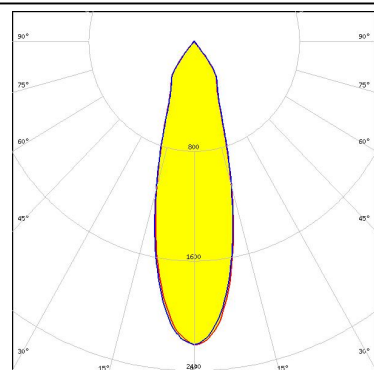
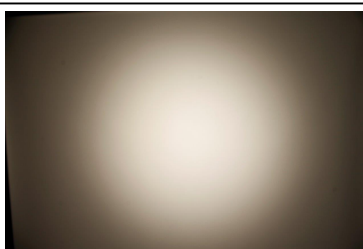
CITIZEN

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



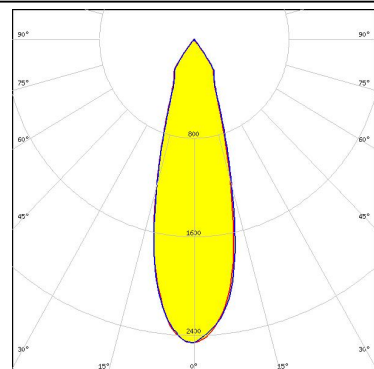
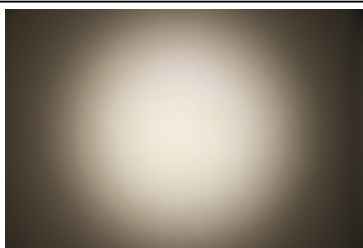
CREE

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



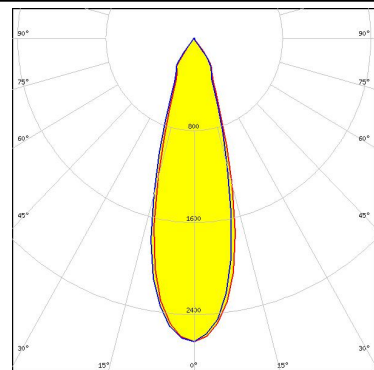
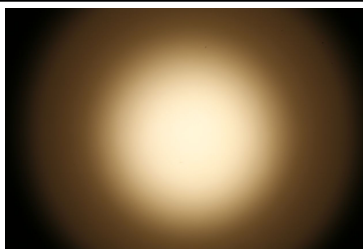
CREE

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



CREE

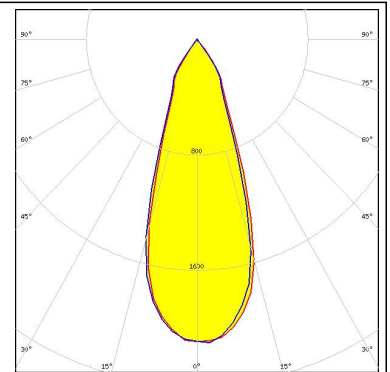
LED CXA/B 15xx
 FWHM 30.0°
 Efficiency 91 %
 Peak intensity 2.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C14115_PF-SOCKET-CXA15-18



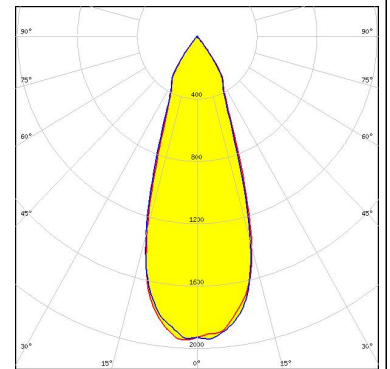
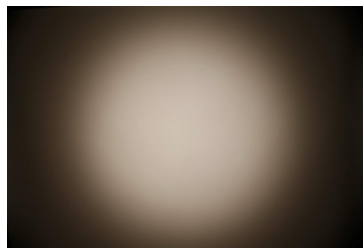
PHOTOMETRIC DATA (MEASURED):



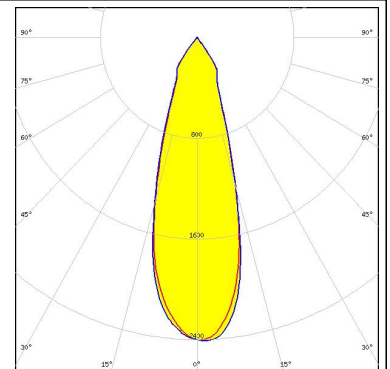
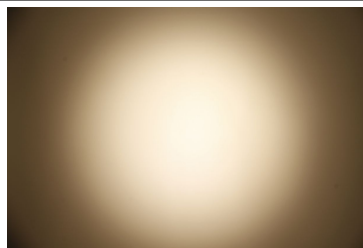
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
 FWHM 36.0°
 Efficiency 94 %
 Peak intensity 2.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C14115_PF-SOCKET-CXA15-18



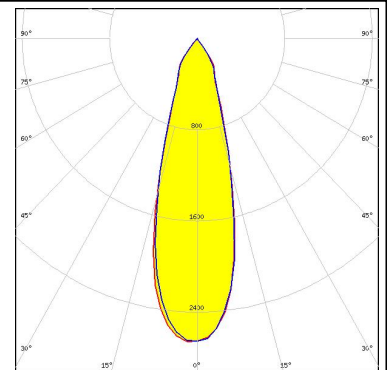
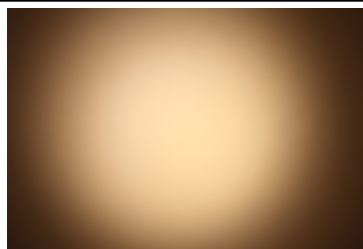
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
 FWHM 36.0°
 Efficiency 88 %
 Peak intensity 2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 437 Typ L1



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



LED LUXEON CoB 1202/1203
 FWHM 30.0°
 Efficiency 91 %
 Peak intensity 2.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C14037_PF-NSX-SOCKET



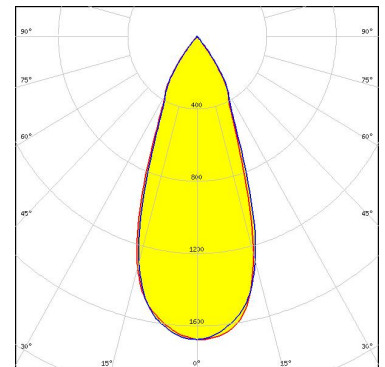
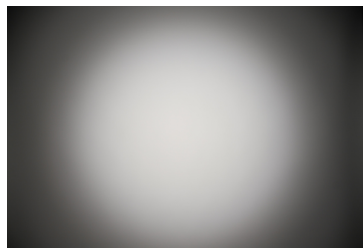
PHOTOMETRIC DATA (MEASURED):



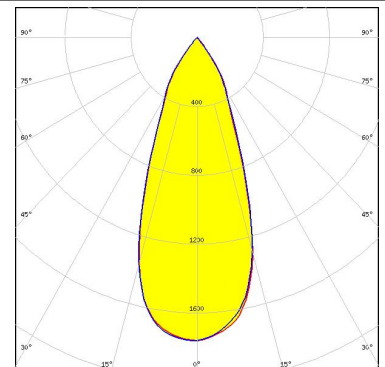
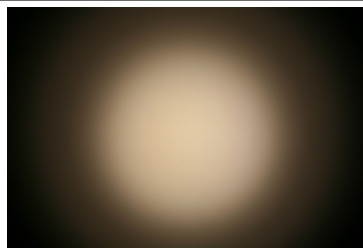
LED LUXEON CoB 1202s
 FWHM 20.0°
 Efficiency 92 %
 Peak intensity 4.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13761_PF-SOCKET-CXA15



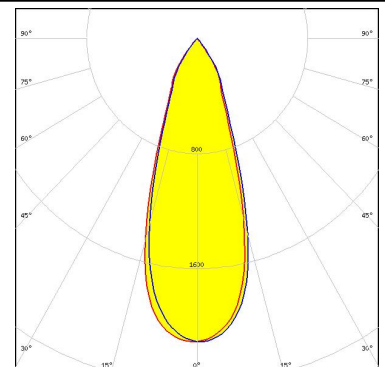
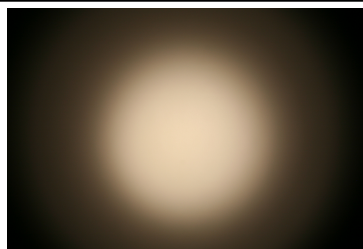
LED COB J-Type
 FWHM 40.0°
 Efficiency 88 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 463 Typ L2



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



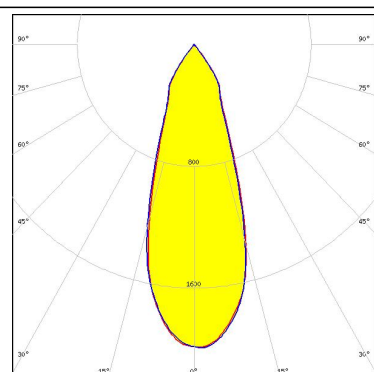
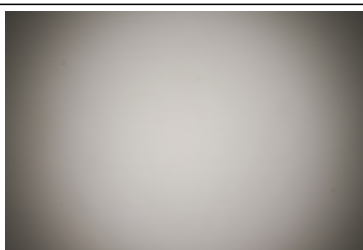
LED COB L-Type (LES 11)
 FWHM 35.0°
 Efficiency 91 %
 Peak intensity 2.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C14037_PF-NSX-SOCKET



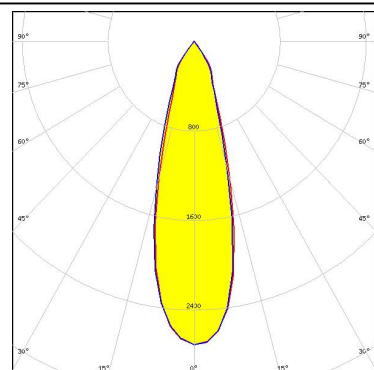
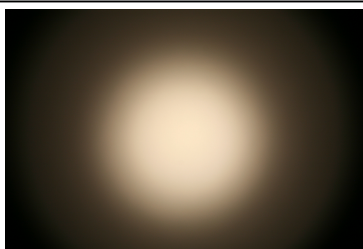
PHOTOMETRIC DATA (MEASURED):



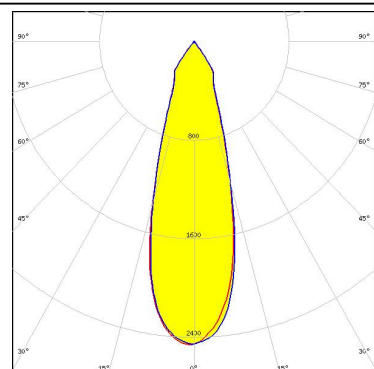
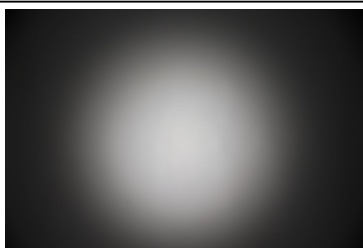
LED COB L-Type (LES 11)
 FWHM 35.0°
 Efficiency 88 %
 Peak intensity 2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 438 Typ L1



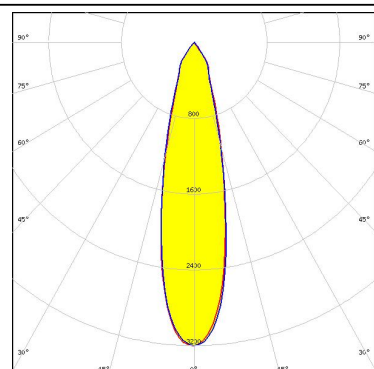
LED COB L-Type (LES 9)
 FWHM 30.0°
 Efficiency 92 %
 Peak intensity 2.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C14037_PF-NSX-SOCKET



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



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

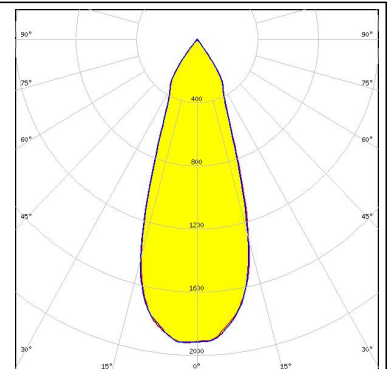
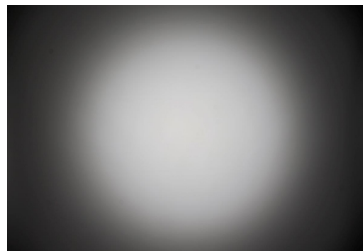


PHOTOMETRIC DATA (MEASURED):

OSRAM

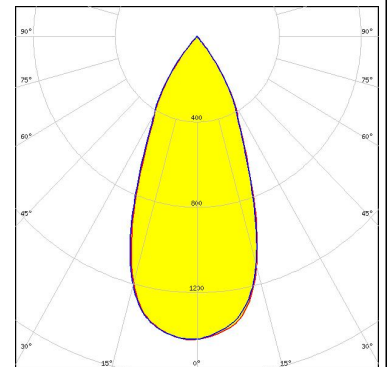
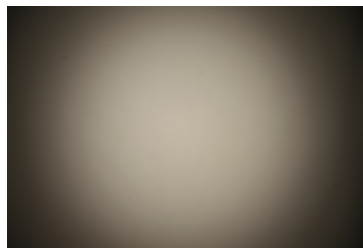
Opto Semiconductors

LED Soleriq S13
FWHM 37.0°
Efficiency 89 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13709_PF-SOCKET-VERO13-18
Bender Wirth: 437 Typ L1



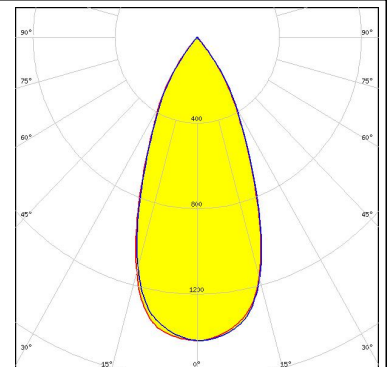
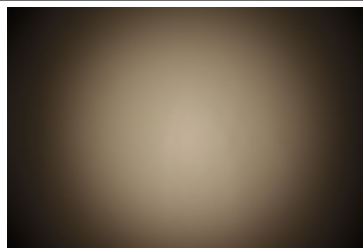
SAMSUNG

LED LC026B / 033B / 040B
FWHM 45.0°
Efficiency 87 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13709_PF-SOCKET-VERO13-18
Bender Wirth: 450 Typ L2



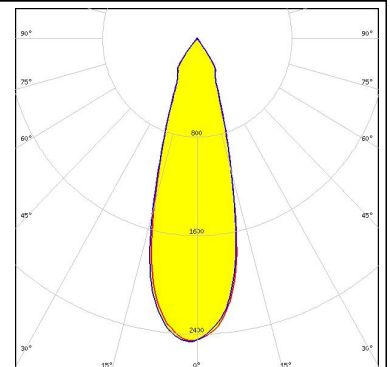
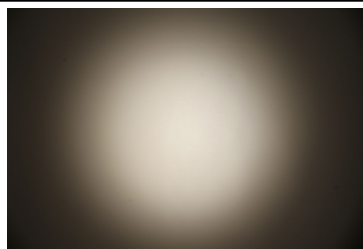
XICATO

LED XTM - 19mm LES
FWHM 45.0°
Efficiency 86 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14636_XTM-PF-ADAPTER



XICATO

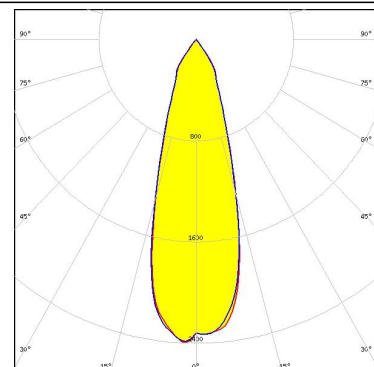
LED XTM - 9mm LES
FWHM 30.0°
Efficiency 89 %
Peak intensity 2.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14636_XTM-PF-ADAPTER



PHOTOMETRIC DATA (SIMULATED):



LED V10 Gen7
FWHM 31.0°
Efficiency 90 %
Peak intensity 2.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13709_PF-SOCKET-VERO13-18
Bender Wirth: 486 Typ L1



LED VERO10
FWHM 30.0°
Efficiency %
LEDs/each optic 1
Light colour White
Required components:



LED VERO13
FWHM 34.0°
Efficiency %
LEDs/each optic 1
Light colour White
Required components:



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

PHOTOMETRIC DATA (SIMULATED):



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



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



LED CxM-14 (19x19)
FWHM 41.0°
Efficiency 87 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13709_PF-SOCKET-VERO13-18
Bender Wirth: 433 Typ L1



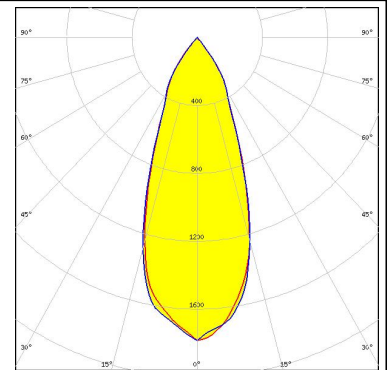
LED CxM-9 (13.5x13.5)
FWHM 32.0°
Efficiency 88 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13709_PF-SOCKET-VERO13-18
Bender Wirth: 434 Typ L1

PHOTOMETRIC DATA (SIMULATED):

OSRAM

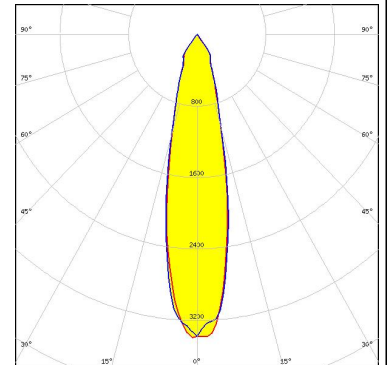
Opto Semiconductors

LED Soleriq S15
 FWHM 39.0°
 Efficiency 90 %
 Peak intensity 1.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 433 Typ L1



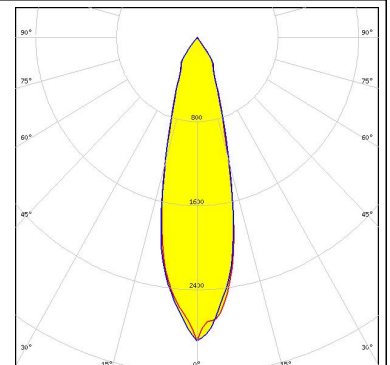
SAMSUNG

LED LC010C
 FWHM 23.0°
 Efficiency 90 %
 Peak intensity 3.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 479 Typ L1



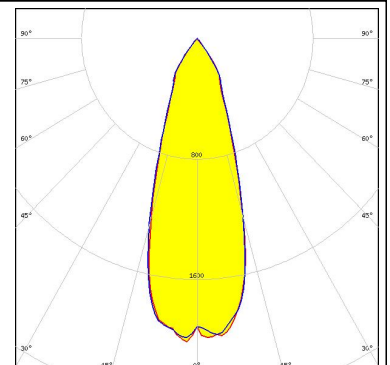
SAMSUNG

LED LC020C
 FWHM 27.0°
 Efficiency 89 %
 Peak intensity 2.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 479 Typ L1



SAMSUNG

LED LC040C
 FWHM 33.0°
 Efficiency 85 %
 Peak intensity 2.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 480 Typ L1



PHOTOMETRIC DATA (SIMULATED):

 SEOUL SEMICONDUCTOR	
LED	ZC12/18
FWHM	41.0°
Efficiency	87 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13709_PF-SOCKET-VERO13-18	
Bender Wirth: 433 Typ L1	

 SEOUL SEMICONDUCTOR	
LED	ZC4/6
FWHM	32.0°
Efficiency	88 %
Peak intensity	2.3 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.

LEDiL Oy assumes neither warranty, nor guarantee nor any other liability of any kind for the contents and correctness of the provided data. The provided data has been generated with highest diligence but the provided data may in reality not represent the complete possible variation range of all intrinsic parameters. Therefore, in certain cases a deviation from the provided data could occur.

LEDiL Oy reserves the right to undertake technical changes of its products without further notification which could lead to changes in the provided data. LEDiL Oy assumes no liability of any kind for the possible deviation from any provided data or any other damage resulting from the usage of the provided data.

The user agrees to this disclaimer and user agreement with the download or usage of the provided files.

LEDiL Oy

Joensuunkatu 13
FI-24240 SALO
Finland

LEDiL Inc.

228 West Page Street
Suite D
Sycamore IL 60178
USA

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)