

BARBARA-S-PF

~15° spot beam

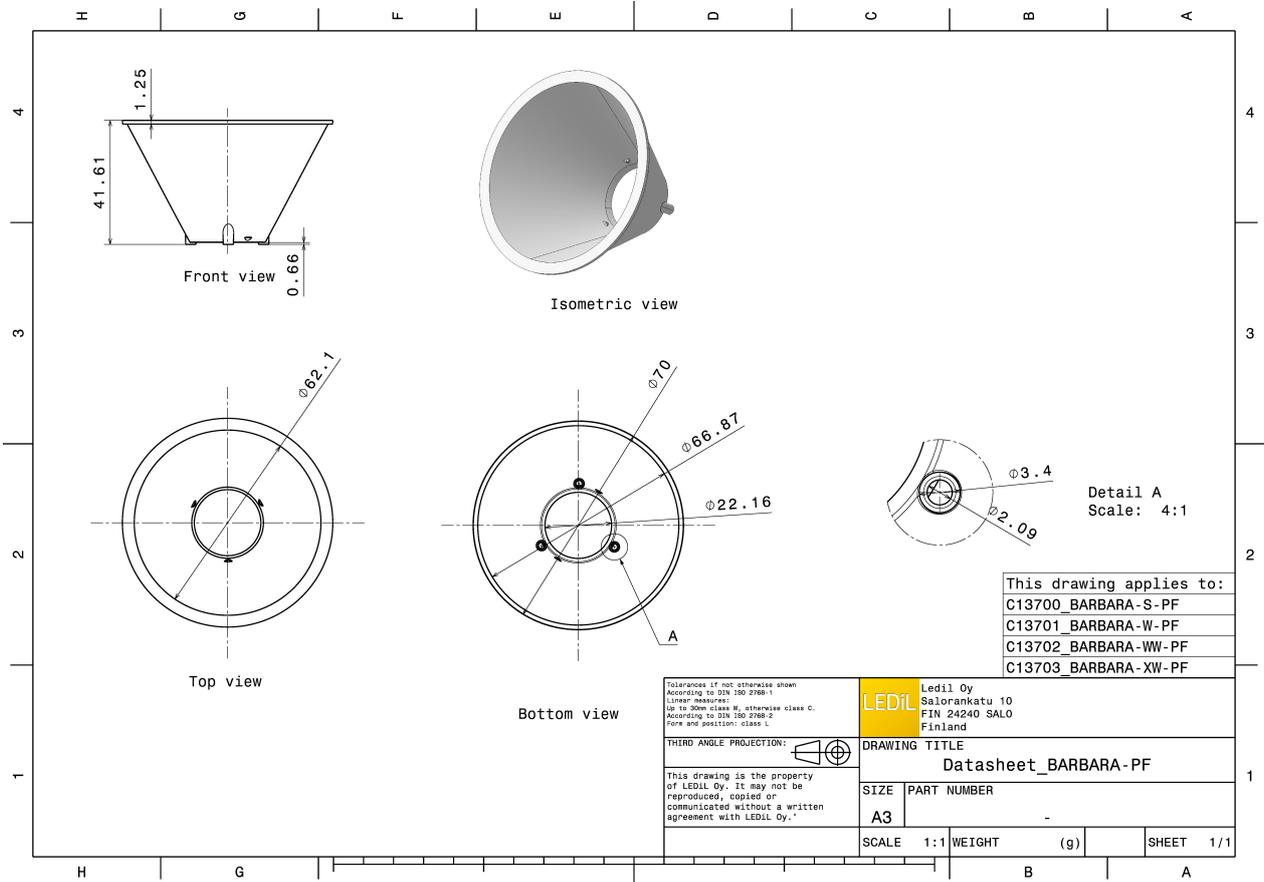
TECHNICAL SPECIFICATIONS:

Dimensions	Ø 70.0 mm
Height	41.7 mm
Fastening	socket
Colour	metal
Box size	480 x 280 x 300 mm
Box weight	6.1 kg
Quantity in Box	288 pcs
ROHS compliant	yes ⓘ

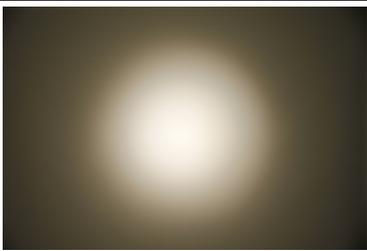
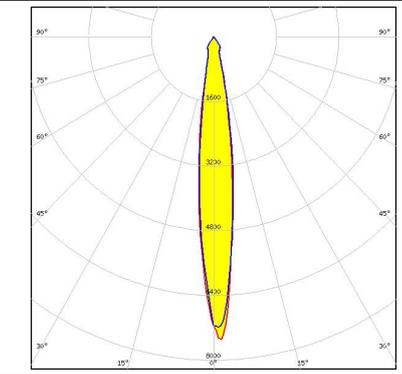
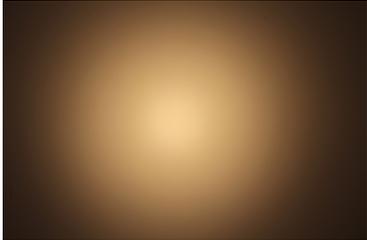
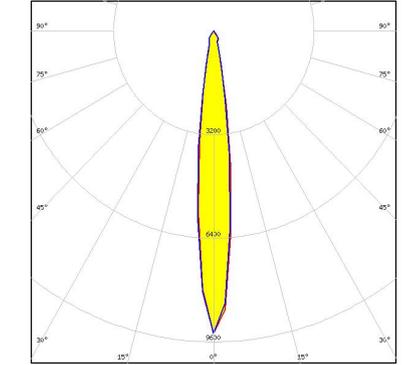


MATERIAL SPECIFICATIONS:

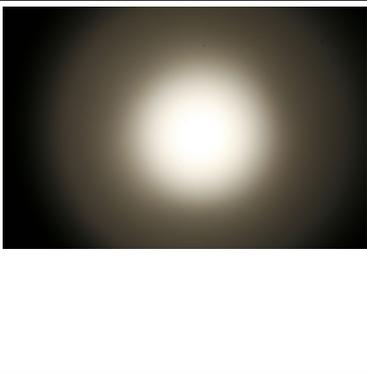
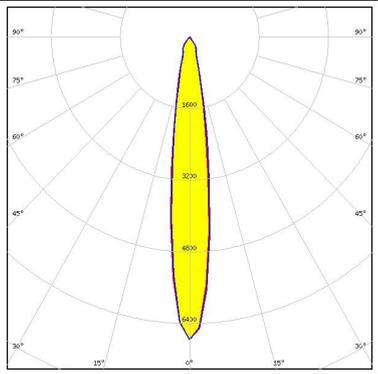
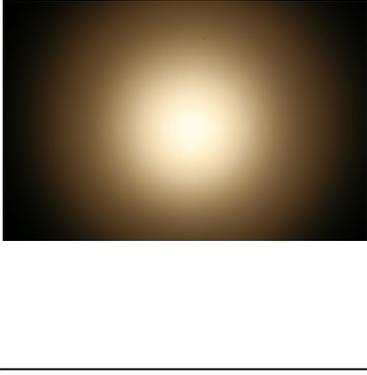
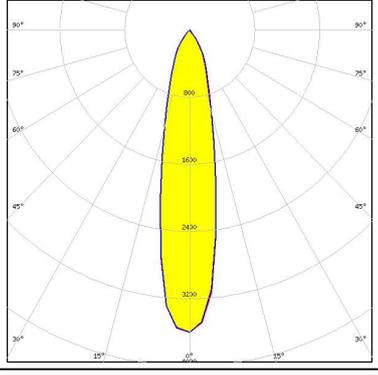
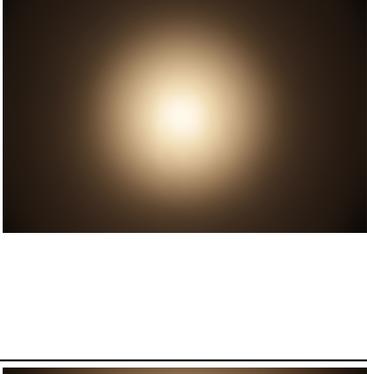
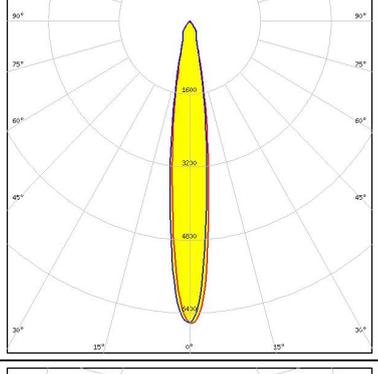
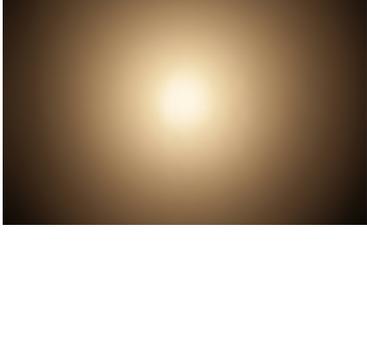
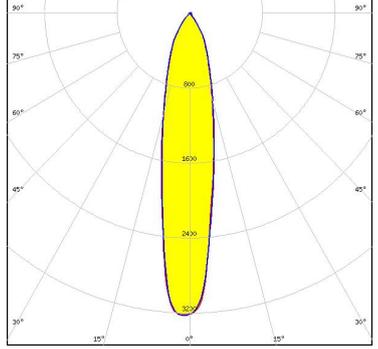
Component	Type	Material	Colour	Coating
BARBARA-S-PF	Reflector	PC	metal	HMDS



PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED V10 Gen7 FWHM 14.0° Efficiency 88 % Peak intensity 7.500 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 Bender Wirth: 434 Typ L1</p>		
<p>bridgelux.</p> <p>LED V15 Gen6 FWHM 18.0° Efficiency 92 % Peak intensity 4.750 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 Bender Wirth: 456 Typ L2</p>		
<p>bridgelux.</p> <p>LED V8 Gen6 FWHM 13.0° Efficiency 86 % Peak intensity 10.600 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 Bender Wirth: 460 Typ L1</p>		
<p>bridgelux.</p> <p>LED VERO10 FWHM 13.0° Efficiency 90 % Peak intensity 9.300 cd/lm LEDs/each optic 1 Light colour White Required components: C13708_PF-SOCKET-VERO10</p>		

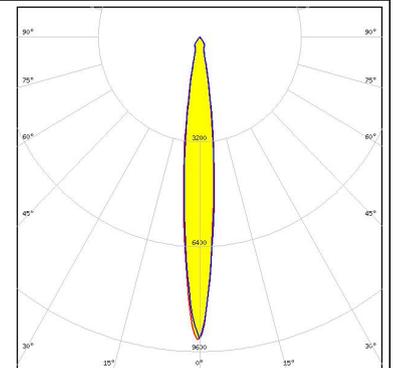
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<p>bridgelux.</p> <p>LED VERO13</p> <p>FWHM 15.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 6.800 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13709_PF-SOCKET-VERO13-18</p>		
<p>bridgelux.</p> <p>LED VERO18</p> <p>FWHM 22.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 3.600 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13709_PF-SOCKET-VERO13-18</p>		
<p>bridgelux.</p> <p>LED Xenio Point 13mm</p> <p>FWHM 14.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 6.640 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13709_PF-SOCKET-VERO13-18</p>		
<p>bridgelux.</p> <p>LED Xenio Point 18mm</p> <p>FWHM 21.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 3.230 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13709_PF-SOCKET-VERO13-18</p>		

PHOTOMETRIC DATA (MEASURED):

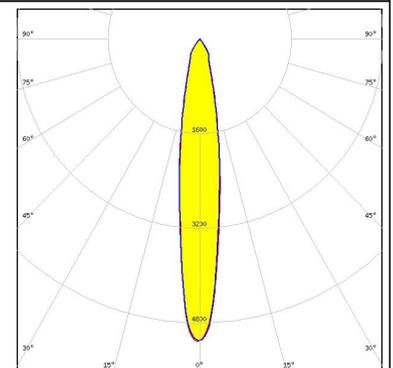
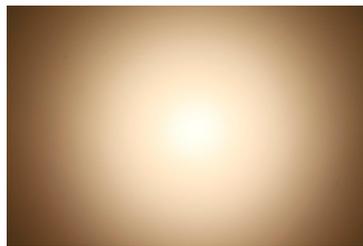
CITIZEN

LED CLL02x/CLU02x (LES10)
 FWHM 12.0°
 Efficiency 89 %
 Peak intensity 9.200 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 434 Typ L1



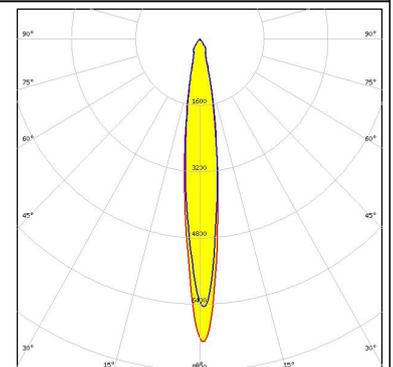
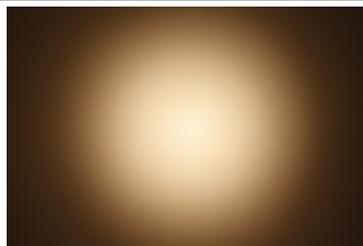
CITIZEN

LED CLL03x/CLU03x
 FWHM 16.0°
 Efficiency 88 %
 Peak intensity 5.100 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 433 Typ L1



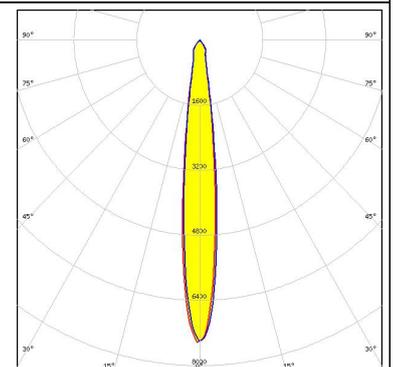
CITIZEN

LED CLU720/721
 FWHM 14.0°
 Efficiency 87 %
 Peak intensity 7.300 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 433 Typ L1



CREE

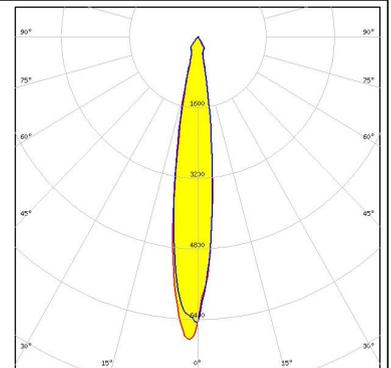
LED CXA/B 15xx
 FWHM 13.0°
 Efficiency 85 %
 Peak intensity 7.400 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET
 C14658_BARBARA-RZ-LENS



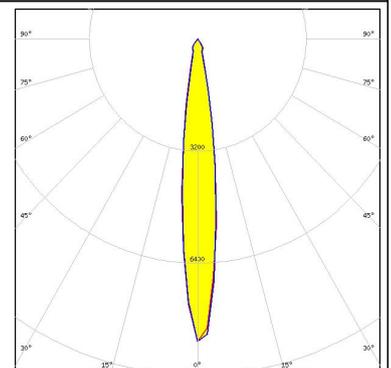
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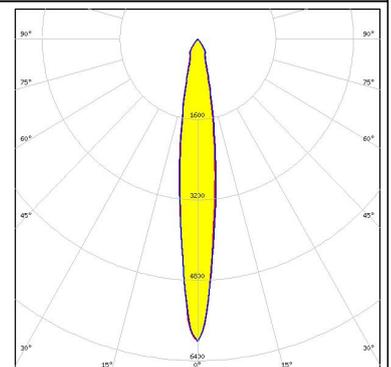
LED CXA/B 15xx
 FWHM 15.0°
 Efficiency 89 %
 Peak intensity 6.900 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 441 Typ L1



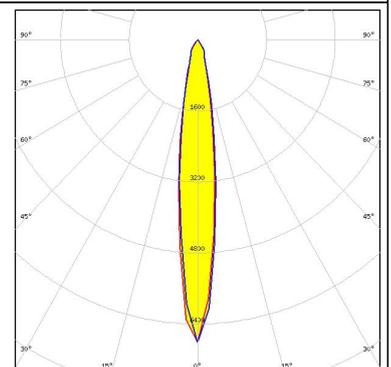
LED CXA/B 15xx
 FWHM 14.0°
 Efficiency 91 %
 Peak intensity 8.600 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C14115_PF-SOCKET-CXA15-18



LED CXA/B 1816 & CXA/B 1820 & CXA 1850
 FWHM 14.0°
 Efficiency 86 %
 Peak intensity 6.100 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 437 Typ L1



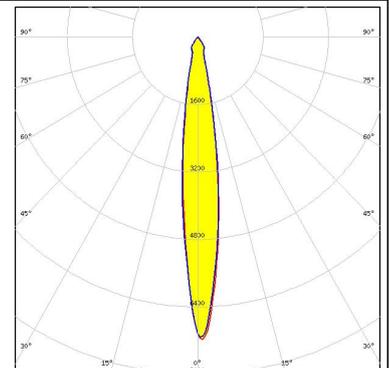
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
 FWHM 15.0°
 Efficiency 92 %
 Peak intensity 6.800 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C14115_PF-SOCKET-CXA15-18



PHOTOMETRIC DATA (MEASURED):

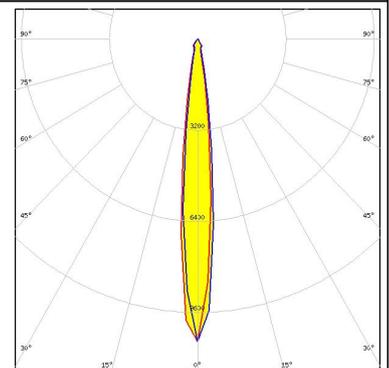
LUMILEDS

LED LUXEON CoB 1202/1203
 FWHM 14.0°
 Efficiency 88 %
 Peak intensity 7.300 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 438 Typ L1



LUMILEDS

LED LUXEON CoB 1202/1203
 FWHM 12.0°
 Efficiency 90 %
 Peak intensity 10.600 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C14037_PF-NSX-SOCKET



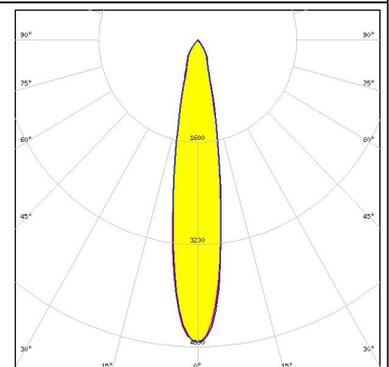
LUMILEDS

LED LUXEON CoB 1202s
 FWHM 9.0°
 Efficiency 90 %
 Peak intensity 19.600 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13761_PF-SOCKET-CXA15



NICHIA

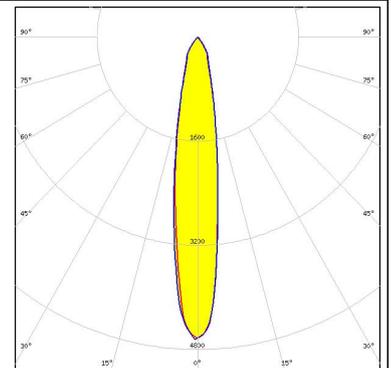
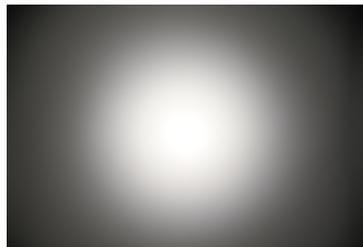
LED COB J-Type
 FWHM 19.0°
 Efficiency 91 %
 Peak intensity 4.730 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C14037_PF-NSX-SOCKET



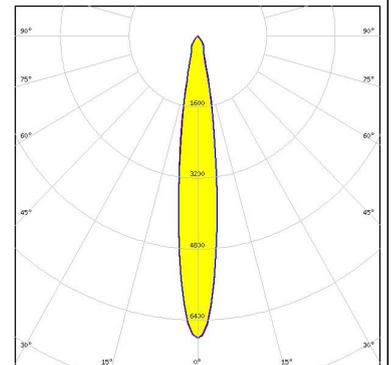
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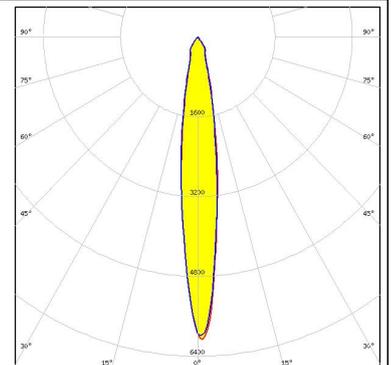
LED COB J-Type
FWHM 17.0°
Efficiency 88 %
Peak intensity 4.600 cd/lm
LEDs/each optic 1
Light colour White
Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 463 Typ L2



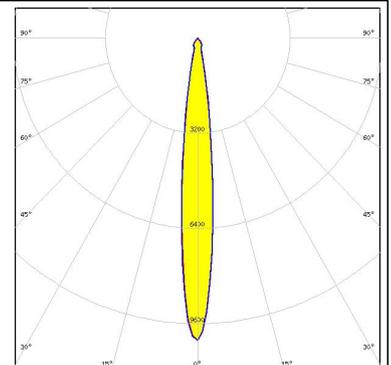
LED COB L-Type (LES 11)
FWHM 15.0°
Efficiency 90 %
Peak intensity 6.800 cd/lm
LEDs/each optic 1
Light colour White
Required components:
 C14037_PF-NSX-SOCKET



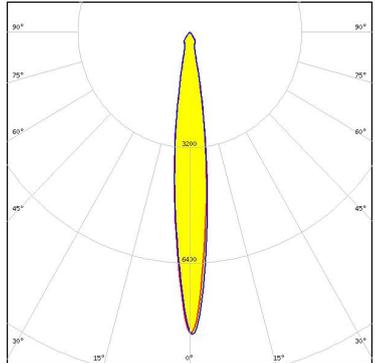
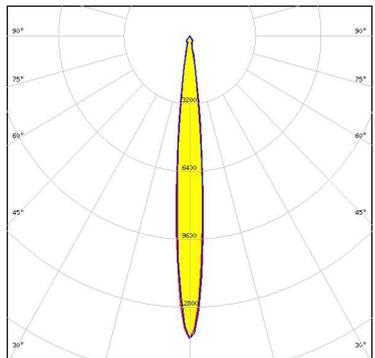
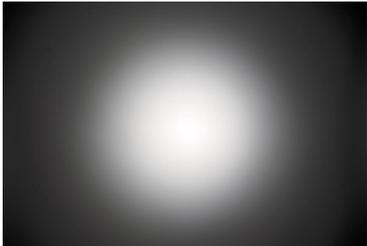
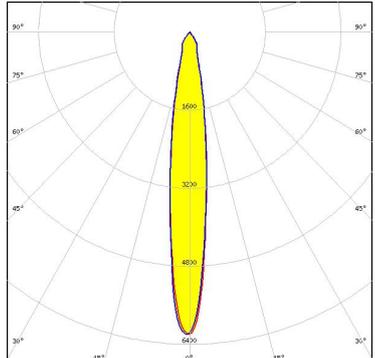
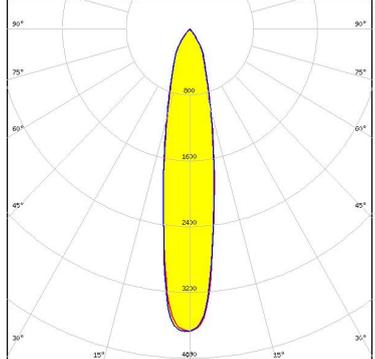
LED COB L-Type (LES 11)
FWHM 14.0°
Efficiency 86 %
Peak intensity 6.100 cd/lm
LEDs/each optic 1
Light colour White
Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 438 Typ L1



LED COB L-Type (LES 9)
FWHM 13.0°
Efficiency 90 %
Peak intensity 10.100 cd/lm
LEDs/each optic 1
Light colour White
Required components:
 C14037_PF-NSX-SOCKET



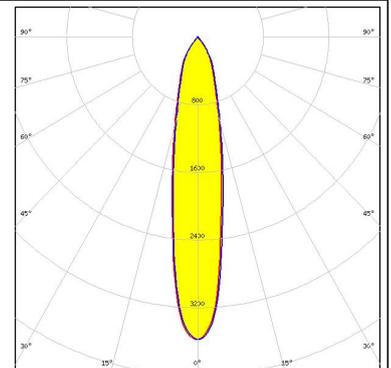
PHOTOMETRIC DATA (MEASURED):

<p>NICHIA</p> <p>LED COB L-Type (LES 9)</p> <p>FWHM 13.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 8.400 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13709_PF-SOCKET-VERO13-18 Bender Wirth: 438 Typ L1</p>		
<p>NICHIA</p> <p>LED NSCxL036A</p> <p>FWHM 11.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 14.120 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C14037_PF-NSX-SOCKET</p>		
<p>OSRAM Opto Semiconductors</p> <p>LED Soleriq S13</p> <p>FWHM 14.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 6.200 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13709_PF-SOCKET-VERO13-18 Bender Wirth: 437 Typ L1</p>		
<p>SAMSUNG</p> <p>LED LC026B / 033B / 040B</p> <p>FWHM 20.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 3.700 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13709_PF-SOCKET-VERO13-18 Bender Wirth: 450 Typ L2</p>		

PHOTOMETRIC DATA (MEASURED):

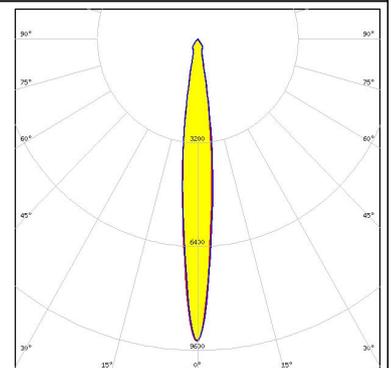
XICATO

LED XTM - 19mm LES
FWHM 20.0°
Efficiency 88 %
Peak intensity 3.600 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14636_XTM-PF-ADAPTER

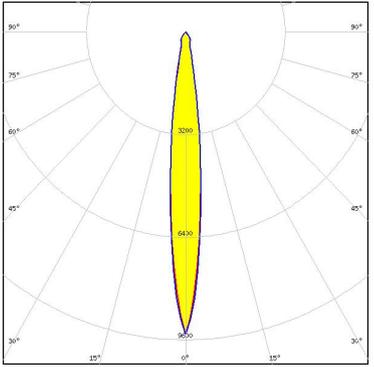


XICATO

LED XTM - 9mm LES
FWHM 12.0°
Efficiency 90 %
Peak intensity 9.300 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14636_XTM-PF-ADAPTER



PHOTOMETRIC DATA (SIMULATED):

<p>bridgelux.</p> <p>LED V10 Gen7 FWHM 12.0° Efficiency 91 % Peak intensity 9.440 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 Bender Wirth: 486 Typ L1</p>	
<p>bridgelux.</p> <p>LED VERO10 FWHM 13.0° Efficiency 0 % Peak intensity 0.000 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>bridgelux.</p> <p>LED VERO13 FWHM 15.0° Efficiency 0 % Peak intensity 0.000 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>bridgelux.</p> <p>LED VERO18 FWHM 21.0° Efficiency 0 % Peak intensity 0.000 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	

PHOTOMETRIC DATA (SIMULATED):



LED CXA/B 15xx
FWHM 12.0°
Efficiency 0 %
Peak intensity 0.000 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED LUXEON CoB Compact
FWHM 9.0°
Efficiency 90 %
Peak intensity 19.600 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13761_PF-SOCKET-CXA15



LED CxM-14 (19x19)
FWHM 16.0°
Efficiency 88 %
Peak intensity 5.130 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13709_PF-SOCKET-VERO13-18
Bender Wirth: 433 Typ L1



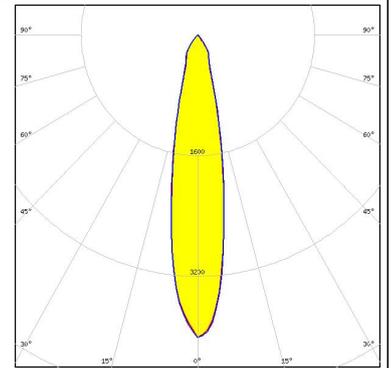
LED CxM-9 (13.5x13.5)
FWHM 12.0°
Efficiency 89 %
Peak intensity 9.200 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13709_PF-SOCKET-VERO13-18
Bender Wirth: 434 Typ L1

PHOTOMETRIC DATA (SIMULATED):

OSRAM

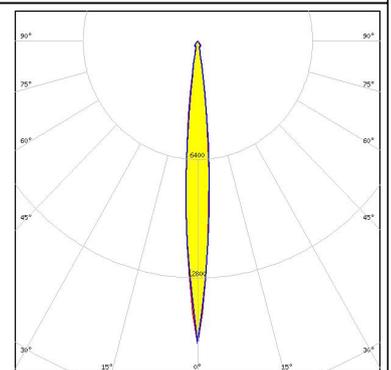
Opto Semiconductors

LED Soleriq S15
 FWHM 20.0°
 Efficiency 88 %
 Peak intensity 4.013 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 433 Typ L1



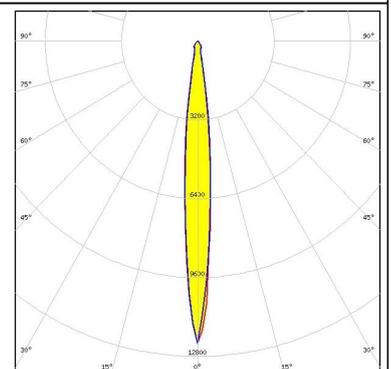
SAMSUNG

LED LC010C
 FWHM 9.1°
 Efficiency 89 %
 Peak intensity 16.300 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 479 Typ L1



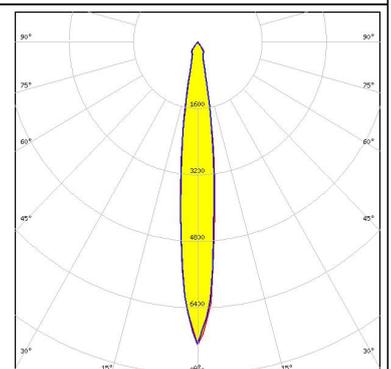
SAMSUNG

LED LC020C
 FWHM 10.0°
 Efficiency 89 %
 Peak intensity 12.300 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 13.0°
 Efficiency 85 %
 Peak intensity 7.300 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	16.0°
Efficiency	88 %
Peak intensity	5.100 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13709_PF-SOCKET-VERO13-18	
Bender Wirth: 433 Typ L1	
<hr/>	
	
SEOUL SEMICONDUCTOR	
LED	ZC4/6
FWHM	12.0°
Efficiency	89 %
Peak intensity	9.200 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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Finland

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