

BARBARA-W-PF

~35° wide beam

SPECIFICATION:

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

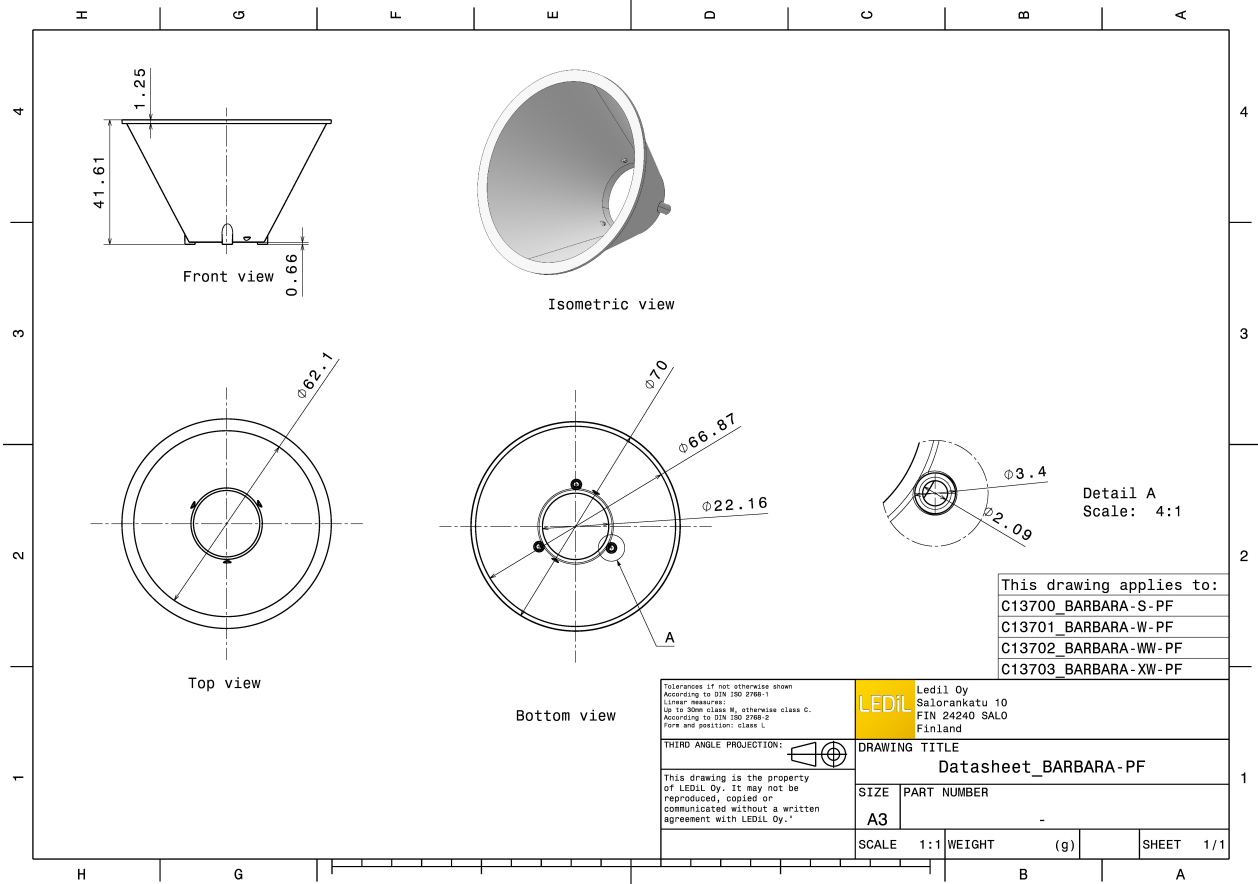
MATERIALS:

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

ORDERING INFORMATION:



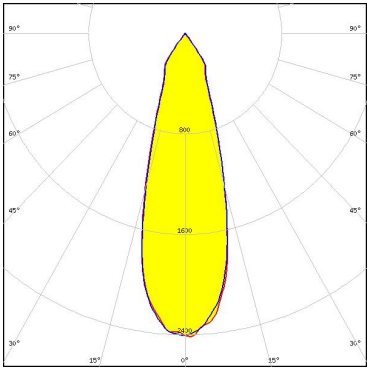


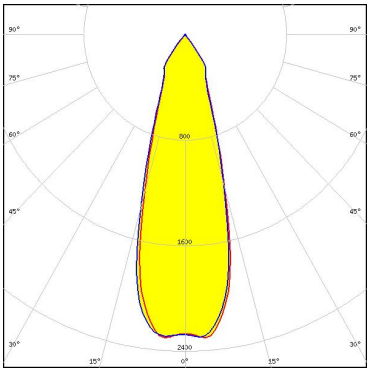


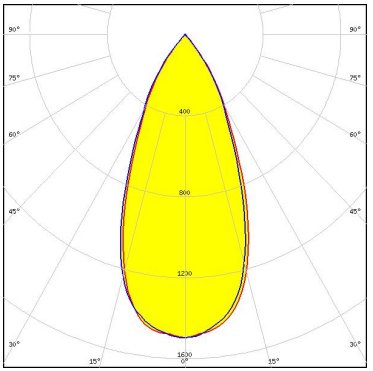

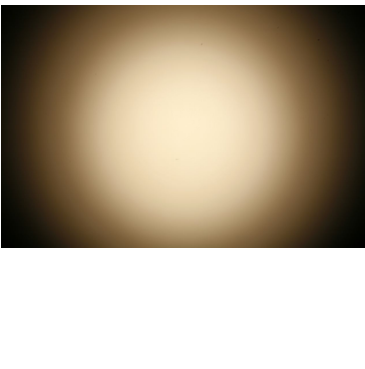
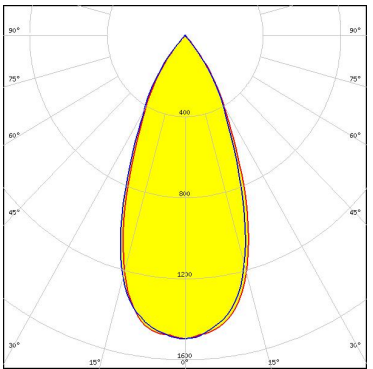
| Component | Qty in box | MOQ | MPQ | Box weight (kg) |
|---|------------|-----|-----|-----------------|
| F13701_BARBARA-W-PF » Box size: 480 x 280 x 300 mm | 288 | 90 | 18 | 7.7 |





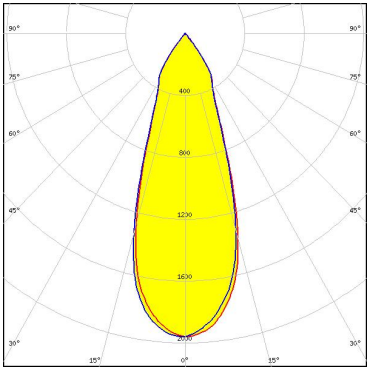

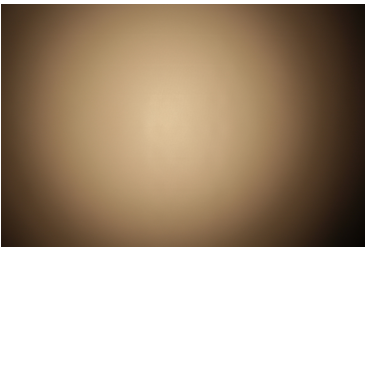
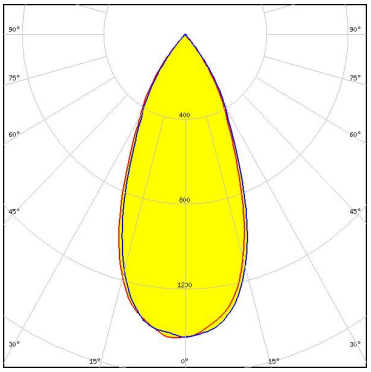

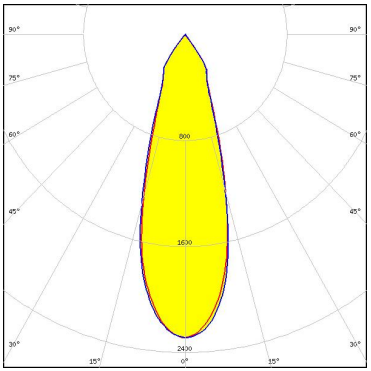
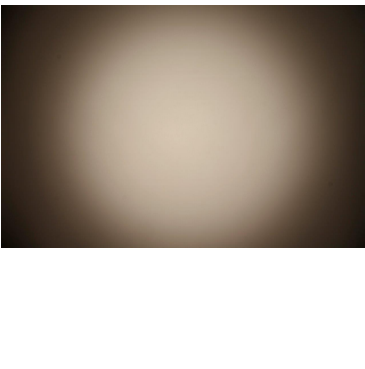
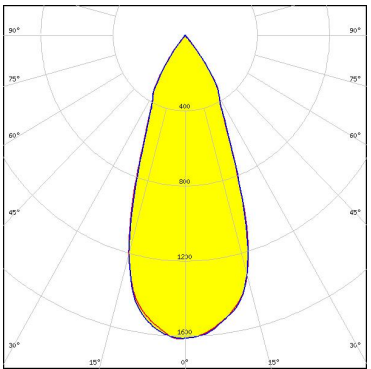


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):

| | | |
|--|--|---|
| <p></p> <p>LED V10 Gen7 FWHM / FWTM 31.0° / 70.0° Efficiency 90 % Peak intensity 2.4 cd/lm LEDs/each optic 1 Light colour White</p> <p>Required components: C13709_PF-SOCKET-VERO13-18 Bender Wirth: 434 Typ L1</p> |  |  |
| <p></p> <p>LED VERO10 FWHM / FWTM 31.0° / 71.0° Efficiency 91 % Peak intensity 2.3 cd/lm LEDs/each optic 1 Light colour White</p> <p>Required components: C13708_PF-SOCKET-VERO10</p> |  |  |
| <p></p> <p>LED VERO13 FWHM / FWTM 36.0° / 72.0° Efficiency 93 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White</p> <p>Required components: C13709_PF-SOCKET-VERO13-18</p> |  |  |
| <p></p> <p>LED VERO18 FWHM / FWTM 45.0° / 76.0° Efficiency 92 % Peak intensity 1.5 cd/lm LEDs/each optic 1 Light colour White</p> <p>Required components: C13709_PF-SOCKET-VERO13-18</p> |  |  |

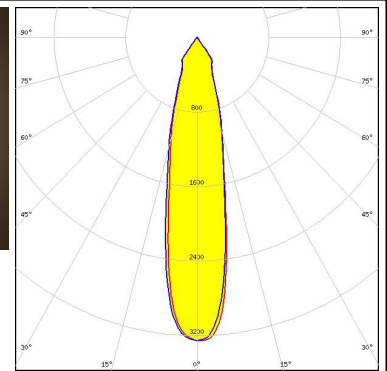
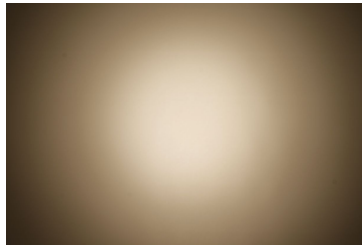
OPTICAL RESULTS (MEASURED):

| | | |
|--|--|---|
| <p></p> <p>LED Xenio Point 13mm FWHM / FWTM 36.0° / 73.0° Efficiency 91 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18</p> |  |  |
| <p></p> <p>LED Xenio Point 18mm FWHM / FWTM 46.0° / 77.0° Efficiency 89 % Peak intensity 1.4 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18</p> |  |  |
| <p>CITIZEN</p> <p>LED CLL02x/CLU02x (LES10) FWHM / FWTM 32.0° / 71.0° 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</p> |  |  |
| <p>CITIZEN</p> <p>LED CLL03x/CLU03x FWHM / FWTM 41.0° / 73.0° 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</p> |  |  |

OPTICAL RESULTS (MEASURED):

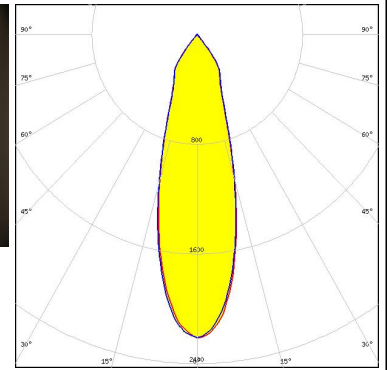
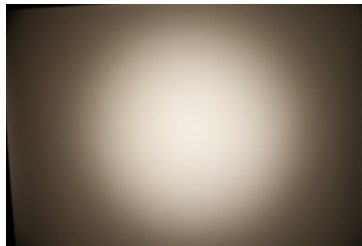
CITIZEN

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 White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 434 Typ L1



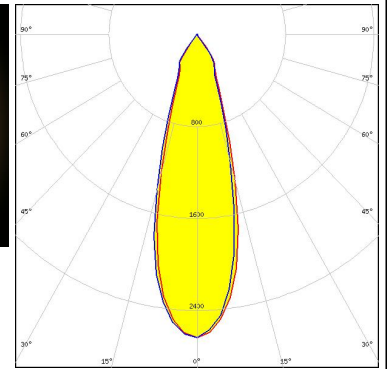
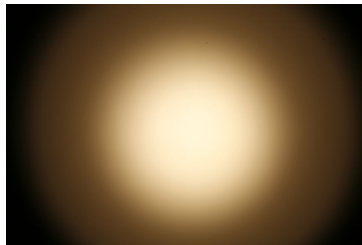
CREE LED

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



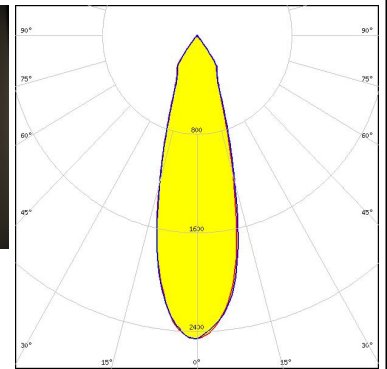
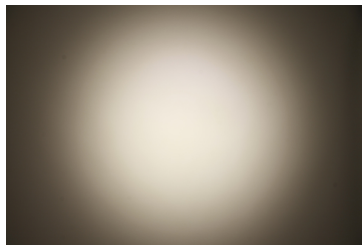
CREE LED

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



CREE LED

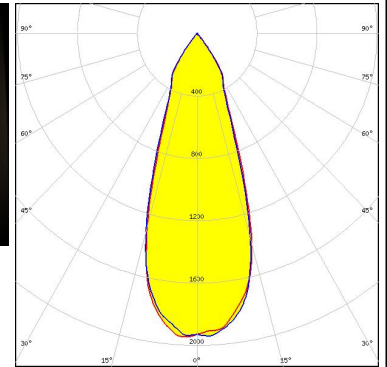
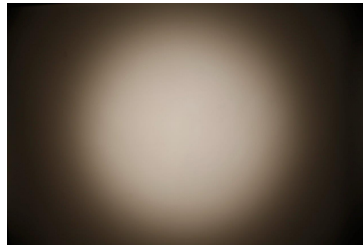
LED CXA/B 15xx
 FWHM / FWTM 30.0° / 70.0°
 Efficiency 88 %
 Peak intensity 2.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 441 Typ L1



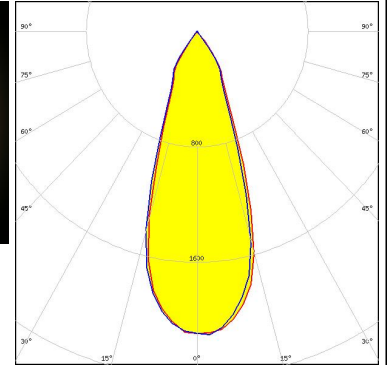
OPTICAL RESULTS (MEASURED):



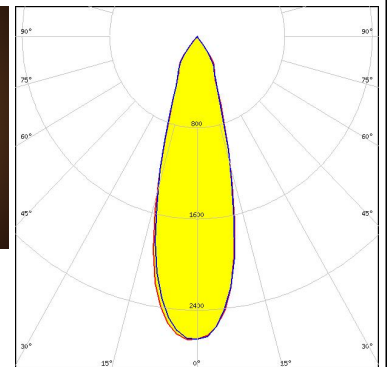
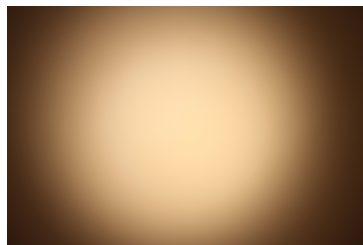
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
 FWHM / FWTM 36.0° / 72.0°
 Efficiency 88 %
 Peak intensity 2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 437 Typ L1



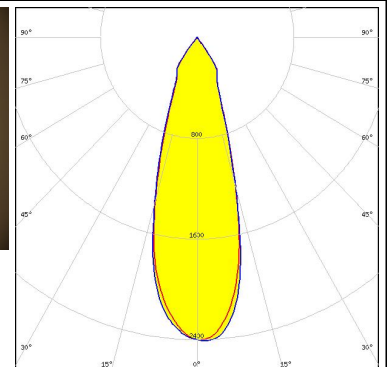
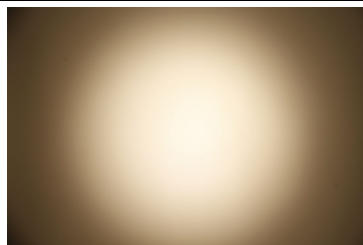
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
 FWHM / FWTM 36.0° / 71.0°
 Efficiency 94 %
 Peak intensity 2.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C14115_PF-SOCKET-CXA15-18




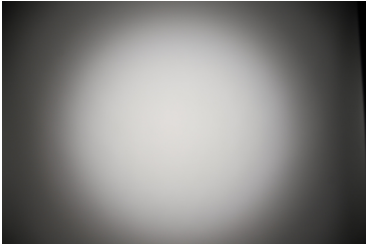
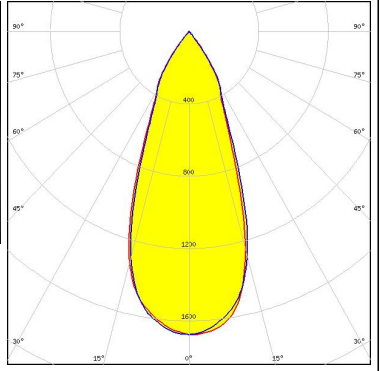
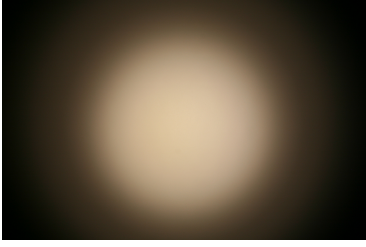
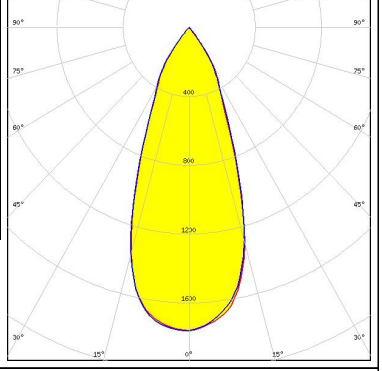

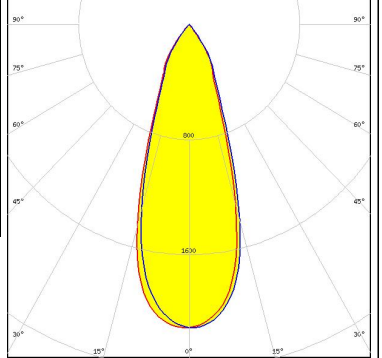
LED LUXEON CoB 1202/1203
 FWHM / FWTM 30.0° / 68.0°
 Efficiency 91 %
 Peak intensity 2.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C14037_PF-NSX-SOCKET




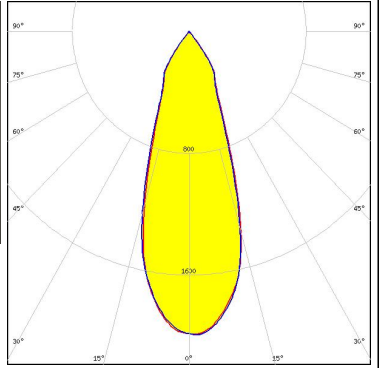

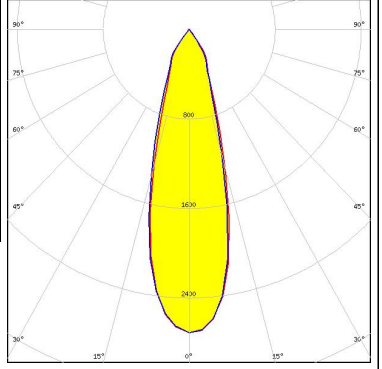
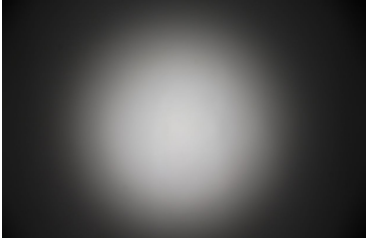
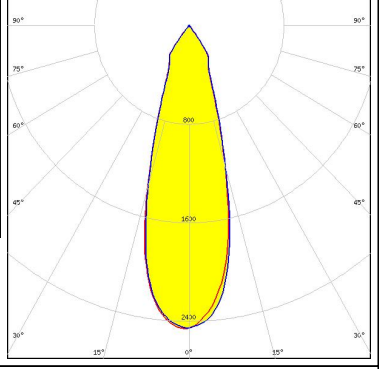

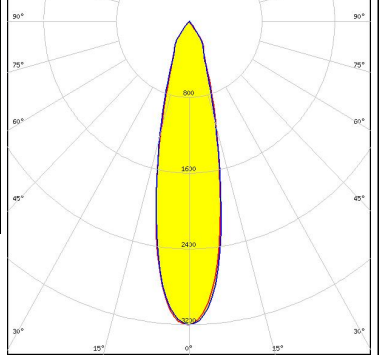
LED LUXEON CoB 1202/1203
 FWHM / FWTM 31.0° / 70.0°
 Efficiency 90 %
 Peak intensity 2.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 438 Typ L1



OPTICAL RESULTS (MEASURED):

| | | |
|--|--|---|
| <p>LUMILEDS</p> <p>LED LUXEON CoB 1202s</p> <p>FWHM / FWTM 20.0° / 52.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 4.1 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13761_PF-SOCKET-CXA15</p> |  | |
| <p>NICHIA</p> <p>LED COB J-Type</p> <p>FWHM / FWTM 40.0° / 73.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 1.7 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13709_PF-SOCKET-VERO13-18 Bender Wirth: 463 Typ L2</p> |  |  |
| <p>NICHIA</p> <p>LED COB J-Type</p> <p>FWHM / FWTM 41.0° / 74.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 1.8 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C14037_PF-NSX-SOCKET</p> |  |  |
| <p>NICHIA</p> <p>LED COB L-Type (LES 11)</p> <p>FWHM / FWTM 35.0° / 71.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 2.1 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C14037_PF-NSX-SOCKET</p> |  |  |

OPTICAL RESULTS (MEASURED):

| | | |
|---|--|---|
| <p>NICHIA</p> <p>LED COB L-Type (LES 11)</p> <p>FWHM / FWTM 35.0° / 72.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 2 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 COB L-Type (LES 9)</p> <p>FWHM / FWTM 30.0° / 68.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 2.7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C14037_PF-NSX-SOCKET</p> |  |  |
| <p>NICHIA</p> <p>LED COB L-Type (LES 9)</p> <p>FWHM / FWTM 30.0° / 70.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 2.5 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 / FWTM 25.0° / 60.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 3.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C14037_PF-NSX-SOCKET</p> |  |  |

OPTICAL RESULTS (MEASURED):

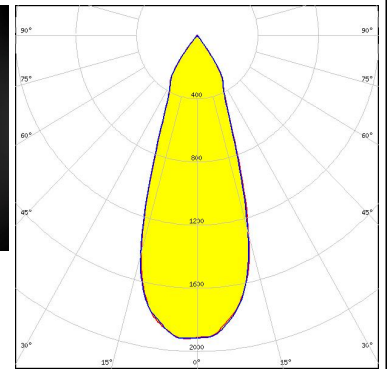
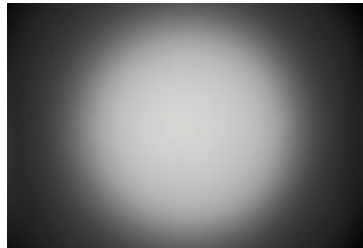
OSRAM

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 White

Required components:

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

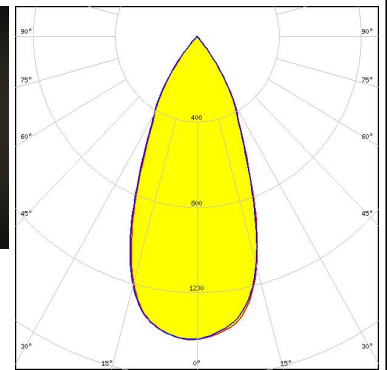
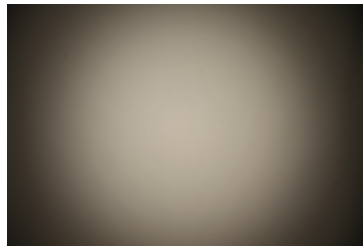


SAMSUNG

LED LC026B / 033B / 040B
 FWHM / FWTM 45.0° / 76.0°
 Efficiency 87 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour White

Required components:

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

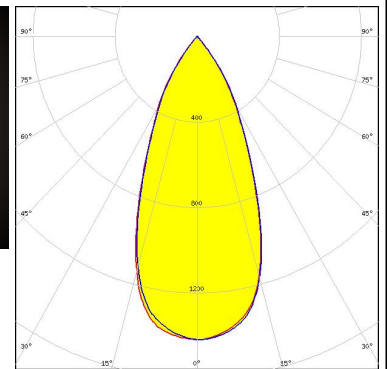
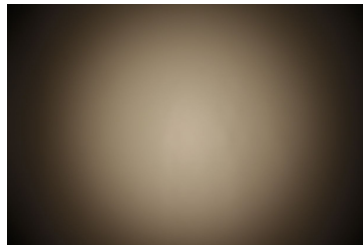


XICATO

LED XTM - 19mm LES
 FWHM / FWTM 45.0° / 75.0°
 Efficiency 86 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour White

Required components:

C14636_XTM-PF-ADAPTER

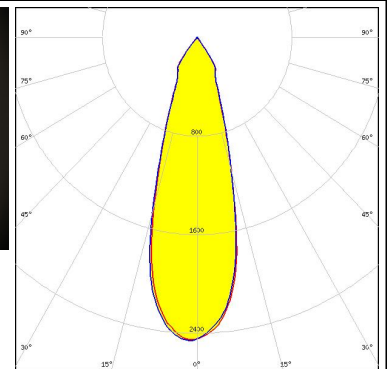
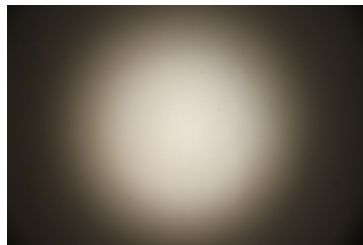


XICATO


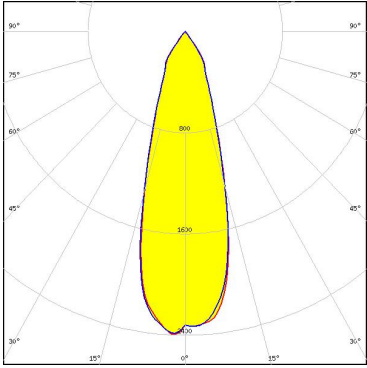



LED XTM - 9mm LES
 FWHM / FWTM 30.0° / 70.0°
 Efficiency 89 %
 Peak intensity 2.5 cd/lm
 LEDs/each optic 1
 Light colour White

Required components:

C14636_XTM-PF-ADAPTER



OPTICAL RESULTS (SIMULATED):

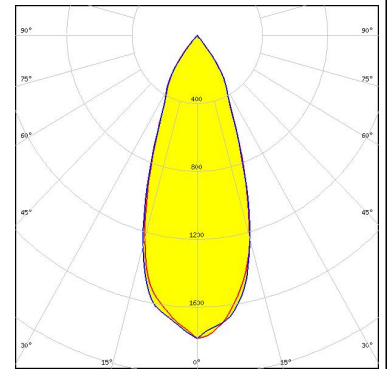
| | | |
|--|----------------------------|---|
|  | |  |
| LED | V10 Gen7 | |
| FWHM / FWTM | 31.0° / 69.0° | |
| Efficiency | 90 % | |
| Peak intensity | 2.5 cd/lm | |
| LEDs/each optic | 1 | |
| Light colour | White | |
| Required components: | | |
| | C13709_PF-SOCKET-VERO13-18 | |
| | Bender Wirth: 486 Typ L1 | |
|  | | |
| LED | LUXEON CoB Compact | |
| FWHM / FWTM | 20.0° / 52.0° | |
| 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 / FWTM | 41.0° / 73.0° | |
| 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 / FWTM | 32.0° / 71.0° | |
| 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 | |

OPTICAL RESULTS (SIMULATED):

OSRAM

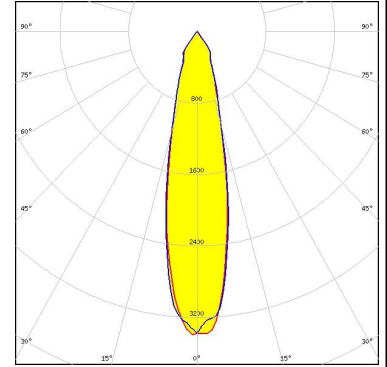
Opto Semiconductors

LED Soleriq S15
 FWHM / FWTM 39.0° / 74.0°
 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



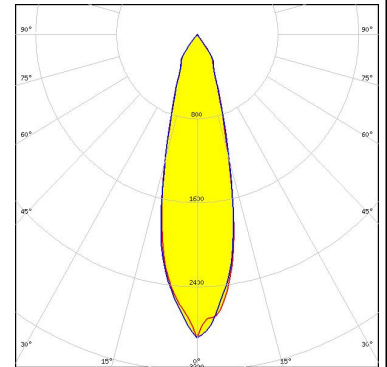
SAMSUNG

LED LC010C
 FWHM / FWTM 23.0° / 54.0°
 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



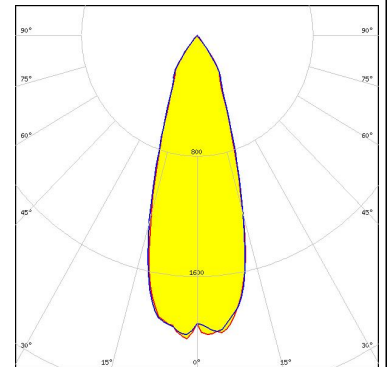
SAMSUNG

LED LC020C
 FWHM / FWTM 27.0° / 65.0°
 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 / FWTM 33.0° / 70.0°
 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



OPTICAL RESULTS (SIMULATED):

| | |
|---|---------------|
|  | |
| SEOL SEMICONDUCTOR | |
| LED | ZC12/18 |
| FWHM / FWTM | 41.0° / 73.0° |
| 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 | |
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|  | |
| SEOL SEMICONDUCTOR | |
| LED | ZC4/6 |
| FWHM / FWTM | 32.0° / 71.0° |
| 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.

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