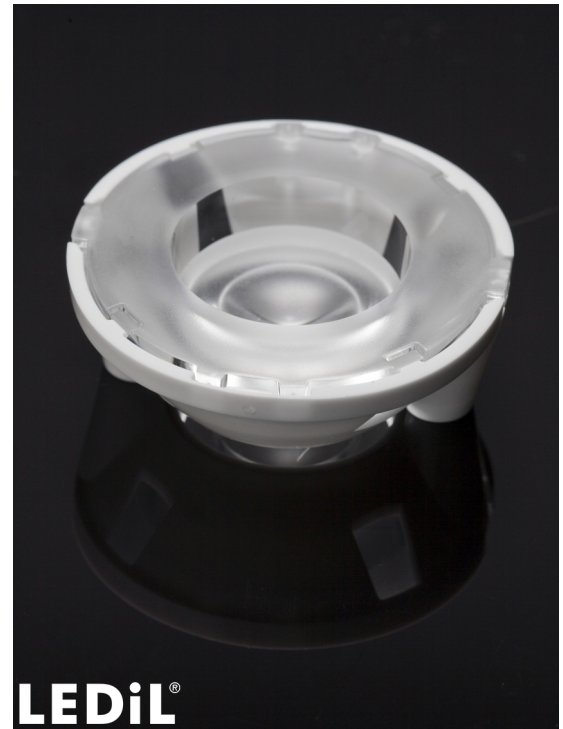


WINNIE-S

~20° spot beam. Holder with 35 mm screw hole distance according to Zhaga standard. Compatible with Bender+Wirth 4xx Typ L5 connector.

TECHNICAL SPECIFICATIONS:

| | |
|----------------|-----------|
| Dimensions | Ø 49.8 mm |
| Height | 19.3 mm |
| Fastening | screw |
| ROHS compliant | yes ⓘ |

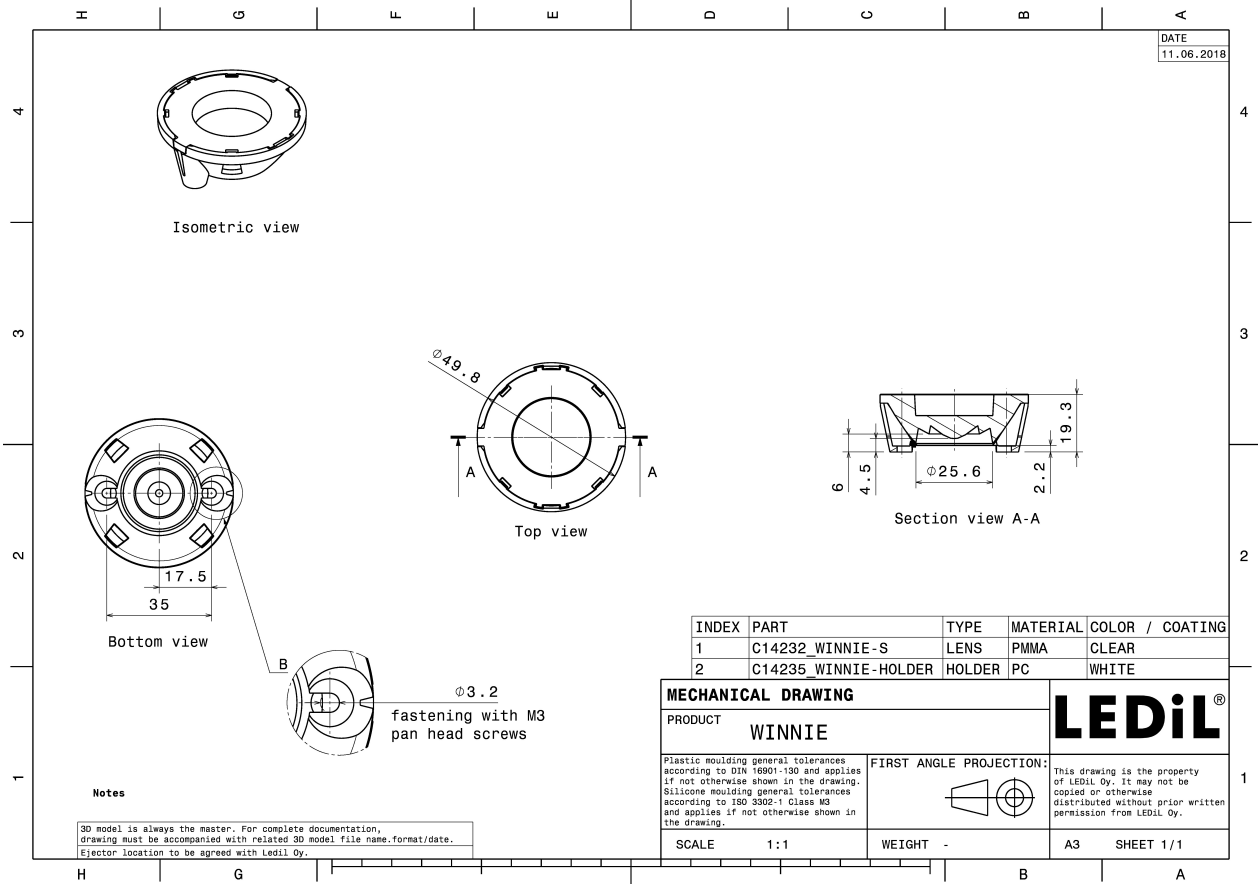


MATERIAL SPECIFICATIONS:

| Component | Type | Material | Colour | Finish |
|---------------|-------------|----------|--------|--------|
| WINNIE-S | Single lens | PMMA | clear | |
| WINNIE-HOLDER | Holder | PC | white | |


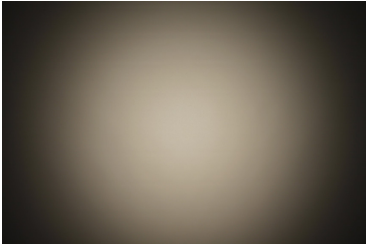
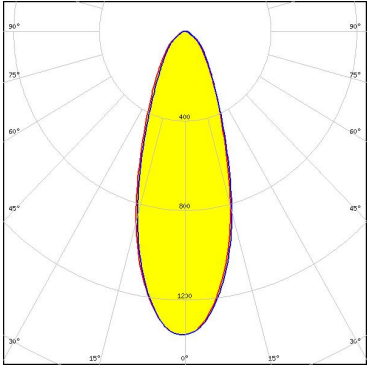
ORDERING INFORMATION:

| Component | Type | Qty in box | MOQ | MPQ | Box weight (kg) |
|------------------|-------------|------------|-----|-----|-----------------|
| CN14236_WINNIE-S | Single lens | 364 | 84 | 28 | 0.0 |
| » Box size: | | | | | |


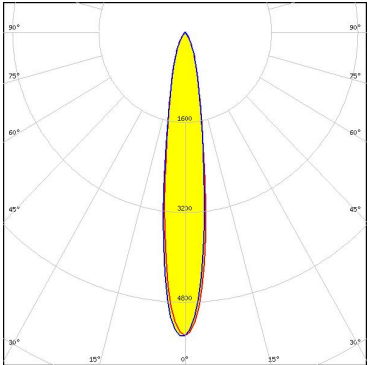



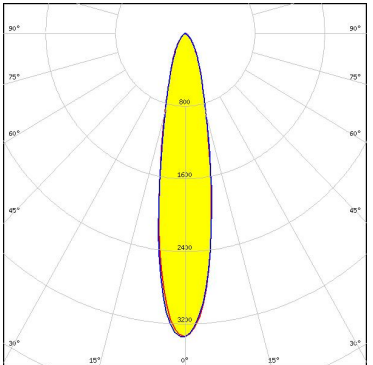
See also our general installation guide: www.ledil.com/installation_guide

PHOTOMETRIC DATA (MEASURED):

| | | | |
|--|---------------|--|---|
|  | |  |  |
| LED | V18 Gen6 | | |
| FWHM / FWTM | 36.0° / 84.0° | | |
| Efficiency | 88 % | | |
| Peak intensity | 1.4 cd/lm | | |
| LEDs/each optic | 1 | | |
| Light colour | White | | |
| Required components: | | | |

| | | | |
|--|---------------|---|--|
|  | |  |  |
| LED | VERO10 | | |
| FWHM / FWTM | 21.0° / 55.0° | | |
| Efficiency | 89 % | | |
| Peak intensity | 3 cd/lm | | |
| LEDs/each optic | 1 | | |
| Light colour | White | | |
| Required components: | | | |

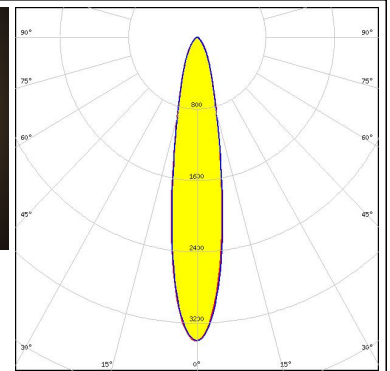
| | | | |
|----------------------|---------------|--|---|
| <h2>CITIZEN</h2> | |  |  |
| LED | CLL01x | | |
| FWHM / FWTM | 16.0° / 42.0° | | |
| Efficiency | 87 % | | |
| Peak intensity | 5.4 cd/lm | | |
| LEDs/each optic | 1 | | |
| Light colour | White | | |
| Required components: | | | |

| | | | |
|----------------------|-----------------------|--|---|
| <h2>CITIZEN</h2> | |  |  |
| LED | CLL02x/CLU02x (LES10) | | |
| FWHM / FWTM | 21.0° / 52.0° | | |
| Efficiency | 87 % | | |
| Peak intensity | 3.3 cd/lm | | |
| LEDs/each optic | 1 | | |
| Light colour | White | | |
| Required components: | | | |

PHOTOMETRIC DATA (MEASURED):

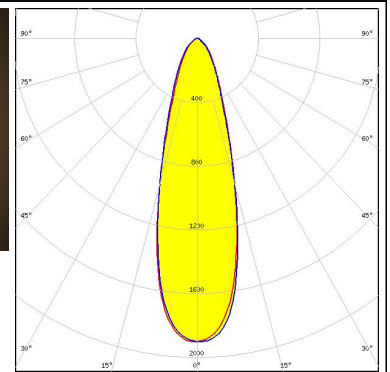
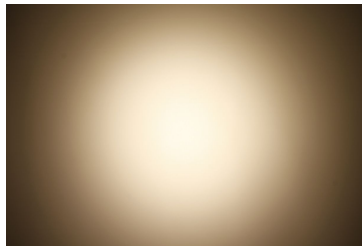
CITIZEN

LED CLL02x/CLU02x (LES10)
 FWHM / FWTM 20.0° / 50.0°
 Efficiency 88 %
 Peak intensity 3.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 434 Typ L5



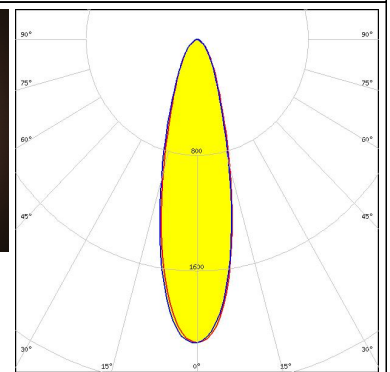
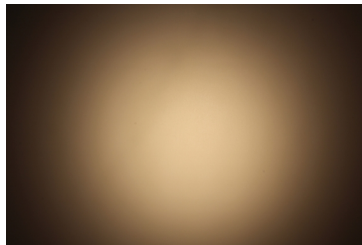
CITIZEN

LED CLL03x/CLU03x
 FWHM / FWTM 30.0° / 68.0°
 Efficiency 88 %
 Peak intensity 1.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 433 Typ L5



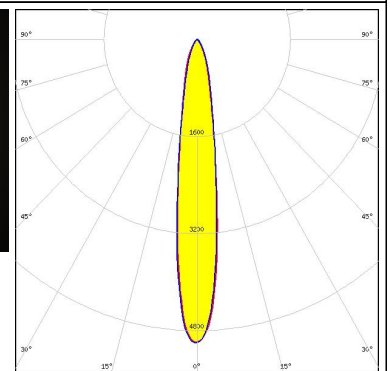
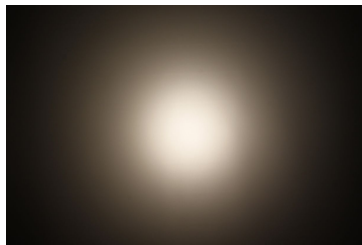
CITIZEN

LED CLL03x/CLU03x
 FWHM / FWTM 28.0° / 66.0°
 Efficiency 87 %
 Peak intensity 2.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



CITIZEN

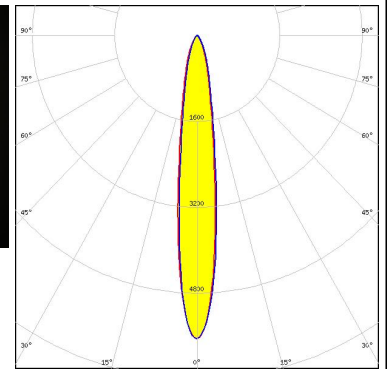
LED CLU700/701/702
 FWHM / FWTM 15.0° / 41.0°
 Efficiency 89 %
 Peak intensity 5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (MEASURED):

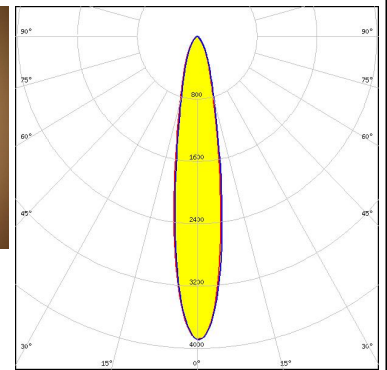
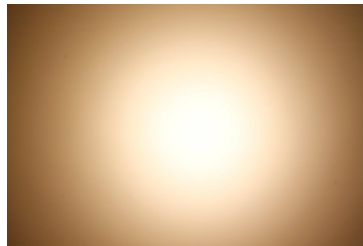
CITIZEN

LED CLU700/701/702
 FWHM / FWTM 15.0° / 39.0°
 Efficiency 90 %
 Peak intensity 5.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 434 Typ L5



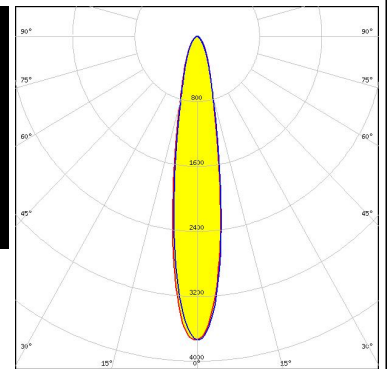
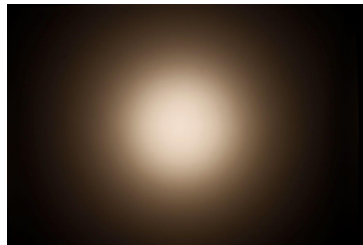
CITIZEN

LED CLU710/711
 FWHM / FWTM 18.0° / 47.0°
 Efficiency 88 %
 Peak intensity 3.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 470 Typ L5



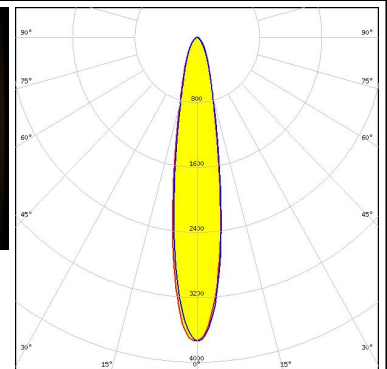
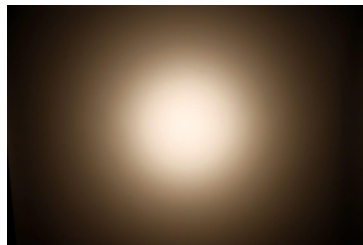
CITIZEN

LED CLU710/711
 FWHM / FWTM 18.0° / 47.0°
 Efficiency 90 %
 Peak intensity 3.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



CITIZEN

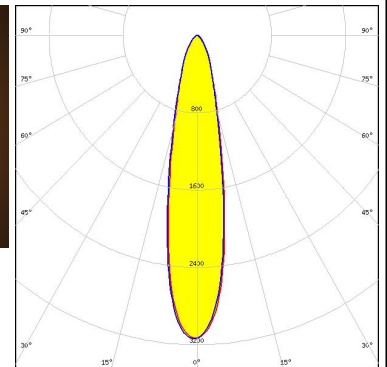
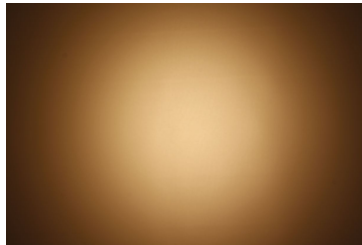
LED CLU710/711
 FWHM / FWTM 18.0° / 47.0°
 Efficiency 90 %
 Peak intensity 3.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (MEASURED):

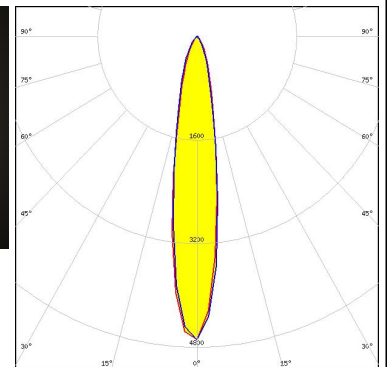
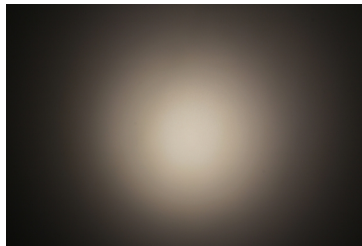
CITIZEN

LED CLU720/721
 FWHM / FWTM 22.0° / 54.0°
 Efficiency 93 %
 Peak intensity 3.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 433 Typ L5



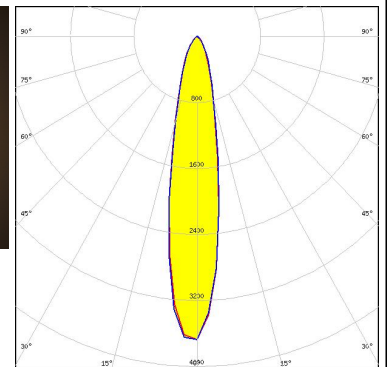
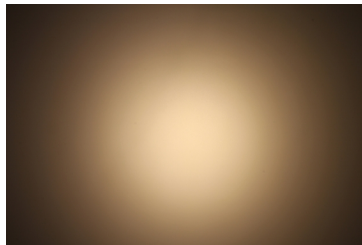
CREE LED

LED CXA/B 13xx
 FWHM / FWTM 18.0° / 46.0°
 Efficiency 89 %
 Peak intensity 4.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



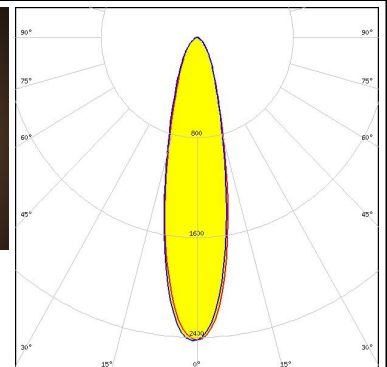
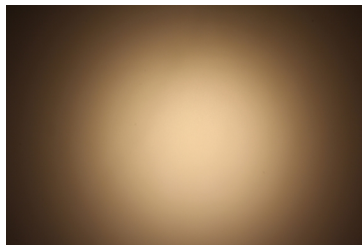
CREE LED

LED CXA/B 15xx
 FWHM / FWTM 20.0° / 49.0°
 Efficiency 87 %
 Peak intensity 3.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



CREE LED

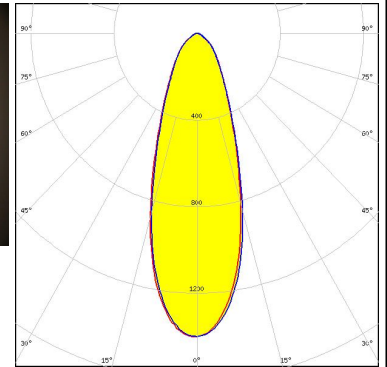
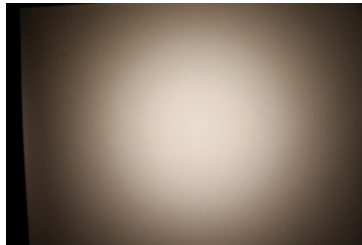
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
 FWHM / FWTM 25.0° / 61.0°
 Efficiency 86 %
 Peak intensity 2.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (MEASURED):

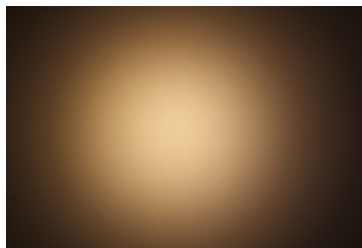
CREE LED

LED CXA/B 25xx
 FWHM / FWTM 35.0° / 83.0°
 Efficiency 85 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



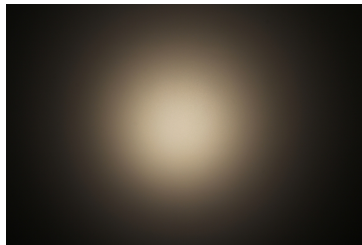
LUMILEDS

LED LUXEON CoB 1202/1203
 FWHM / FWTM 20.0° / 54.0°
 Efficiency 87 %
 Peak intensity 3.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



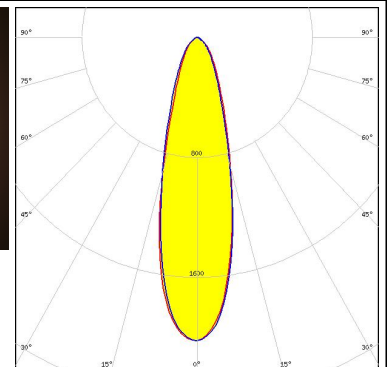
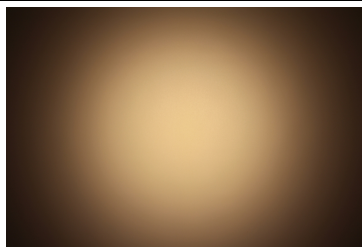
LUMILEDS

LED LUXEON CoB 1202s
 FWHM / FWTM 15.0° / 42.0°
 Efficiency 89 %
 Peak intensity 5.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

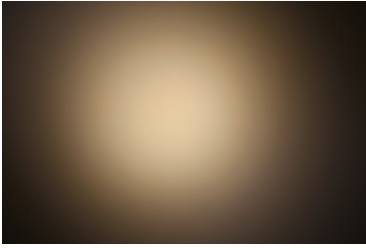
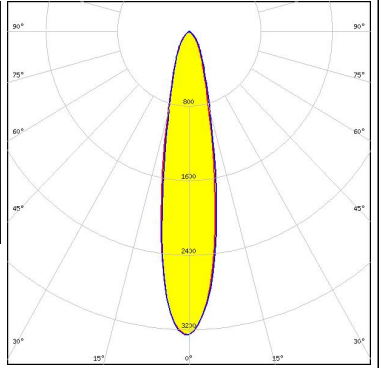


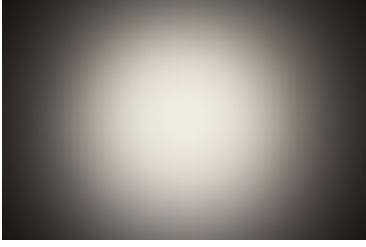
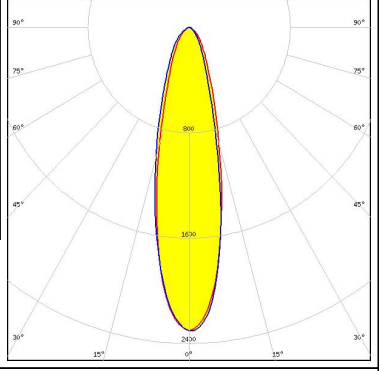
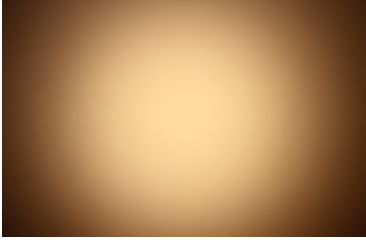
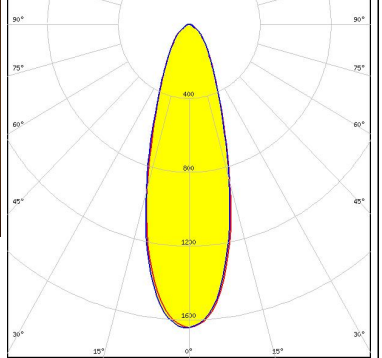


LUMINUS

LED CxM-14 (19x19)
 FWHM / FWTM 29.0° / 67.0°
 Efficiency 86 %
 Peak intensity 2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



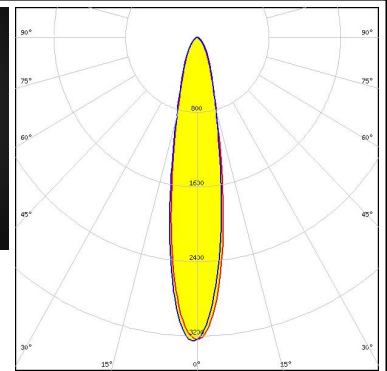
PHOTOMETRIC DATA (MEASURED):

| | | |
|---|--|---|
| <p>LUMINUS</p> <p>LED CxM-9 (13.5x13.5)</p> <p>FWHM / FWTM 22.0° / 53.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 3.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> |  |  |
| <p>OSRAM Opto Semiconductors</p> <p>LED Duris S10</p> <p>FWHM / FWTM 18.0° / 51.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> |  |  |
| <p>OSRAM Opto Semiconductors</p> <p>LED Soleriq S13</p> <p>FWHM / FWTM 26.0° / 64.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 2.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> |  |  |
| <p>OSRAM Opto Semiconductors</p> <p>LED Soleriq S19</p> <p>FWHM / FWTM 33.0° / 77.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 1.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> |  |  |

PHOTOMETRIC DATA (MEASURED):

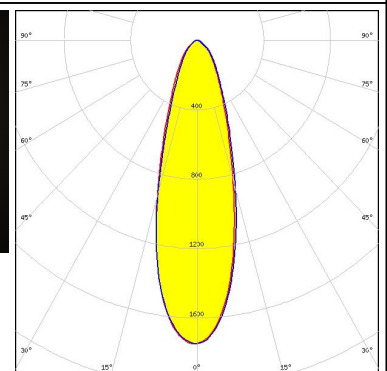
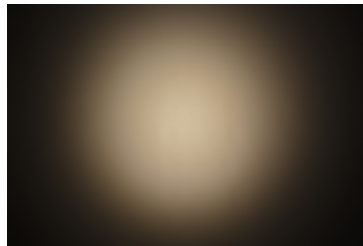
SAMSUNG

LED LC003D / LC006D / LC009D / LC013D
 FWHM / FWTM 20.0° / 51.0°
 Efficiency 87 %
 Peak intensity 3.3 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:

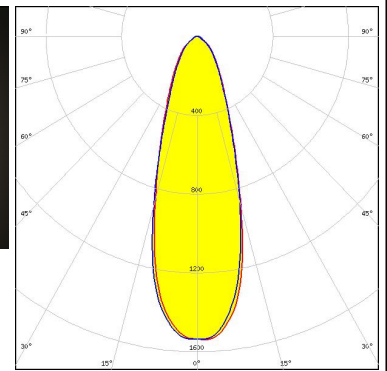


SAMSUNG

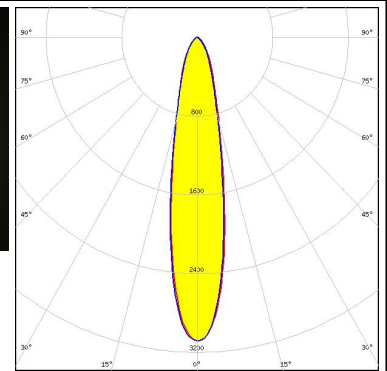
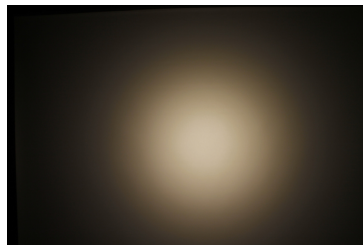
LED LC016D / LC019D / LC026D / LC033D
 FWHM / FWTM 30.0° / 72.0°
 Efficiency 86 %
 Peak intensity 1.8 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:



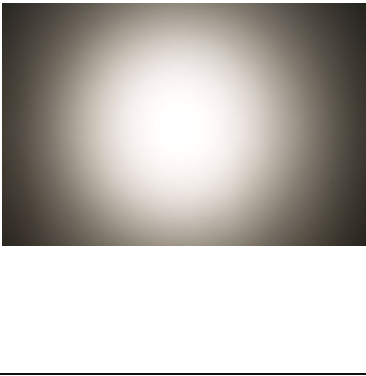
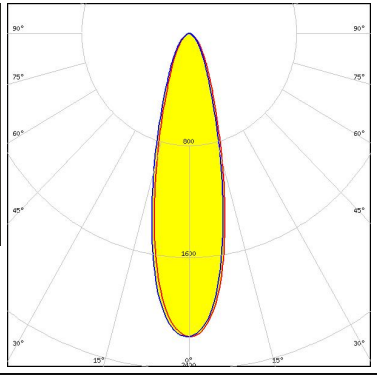

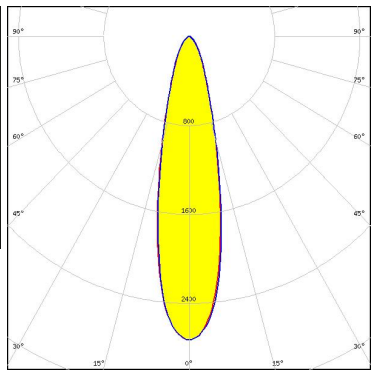

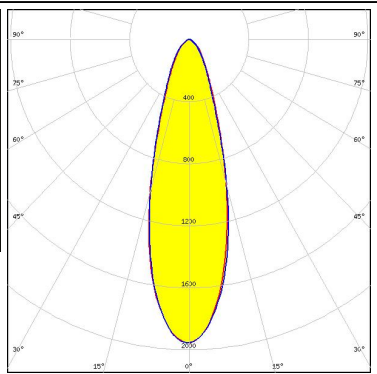
SEOUL SEMICONDUCTOR
 LED MJT COB LES 14.5
 FWHM / FWTM 33.0° / 79.0°
 Efficiency 86 %
 Peak intensity 1.5 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 433 Typ L5




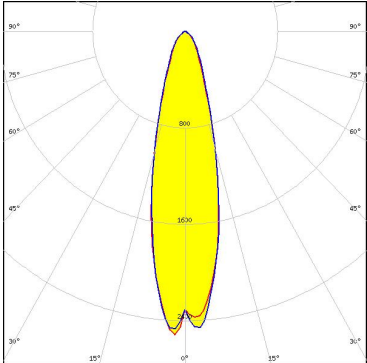

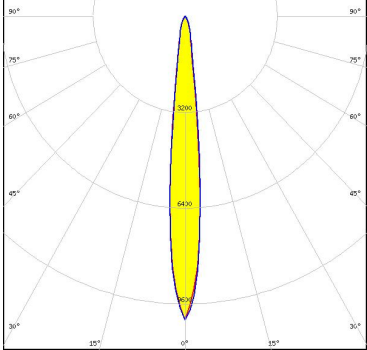

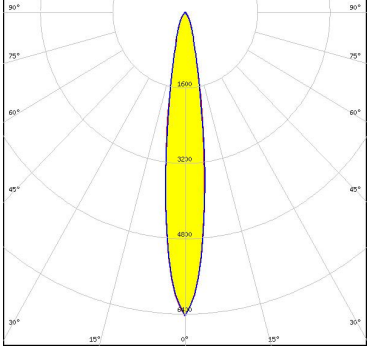

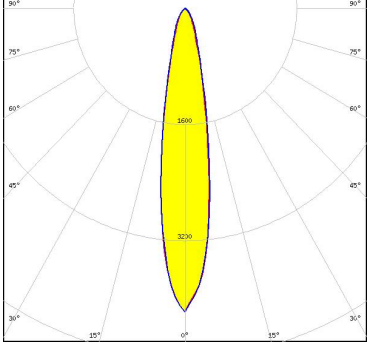
SEOUL SEMICONDUCTOR
 LED MJT COB LES 9.8
 FWHM / FWTM 21.0° / 54.0°
 Efficiency 89 %
 Peak intensity 3.1 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 434 Typ L5



PHOTOMETRIC DATA (MEASURED):

| | | |
|--|--|---|
| <p>SEOL SEOL SEMICONDUCTOR</p> <p>LED ZC12/18 FWHM / FWTM 27.0° / 64.0° Efficiency 88 % Peak intensity 2.2 cd/lm LEDs/each optic 1 Light colour White Required components: Bender Wirth: 433 Typ L5</p> |  |  |
| <p>VS LIGHTING SOLUTIONS</p> <p>LED DMC 124 / 125 FWHM / FWTM 24.0° / 55.0° Efficiency 89 % Peak intensity 2.7 cd/lm LEDs/each optic 1 Light colour White Required components: Bender Wirth: 433 Typ L5</p> |  |  |
| <p>VS LIGHTING SOLUTIONS</p> <p>LED DMC 128 FWHM / FWTM 30.0° / 67.0° Efficiency 88 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White Required components: Bender Wirth: 433 Typ L5</p> |  |  |

PHOTOMETRIC DATA (SIMULATED):

| | |
|--|---|
| <p> bridgelux</p> <p>LED V13 Gen7 FWHM / FWTM 26.0° / 60.0° Efficiency 91 % Peak intensity 2.6 cd/lm LEDs/each optic 1 Light colour White Required components:</p> |  |
| <p> CREE LED</p> <p>LED CXA/B 13xx FWHM / FWTM 12.0° / 25.0° Efficiency 88 % Peak intensity 10.1 cd/lm LEDs/each optic 1 Light colour White Required components: Bender Wirth: 448 Typ L5</p> |  |
| <p> CREE LED</p> <p>LED MHD-E/G FWHM / FWTM 16.0° / 36.0° Efficiency 93 % Peak intensity 6.4 cd/lm LEDs/each optic 1 Light colour White Required components:</p> |  |
| <p> LUMILEDS</p> <p>LED LUXEON CoB 1202/1203 FWHM / FWTM 18.0° / 44.0° Efficiency 88 % Peak intensity 4.2 cd/lm LEDs/each optic 1 Light colour White Required components: Bender Wirth: 441 Typ L5</p> |  |

PHOTOMETRIC DATA (SIMULATED):

LUMILEDS

LED LUXEON CoB Compact
FWHM / FWTM 15.0° / 42.0°
Efficiency 89 %
Peak intensity 5.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:

LUMINUS

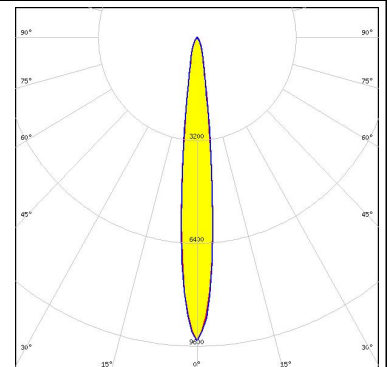
LED CxM-14 (19x19)
FWHM / FWTM 30.0° / 68.0°
Efficiency 88 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
Bender Wirth: 433 Typ L5

LUMINUS

LED CxM-9 (13.5x13.5)
FWHM / FWTM 20.0° / 50.0°
Efficiency 88 %
Peak intensity 3.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
Bender Wirth: 434 Typ L5

NICHIA

LED COB S-Type (LES 6)
FWHM / FWTM 12.0° / 28.0°
Efficiency 92 %
Peak intensity 9.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:

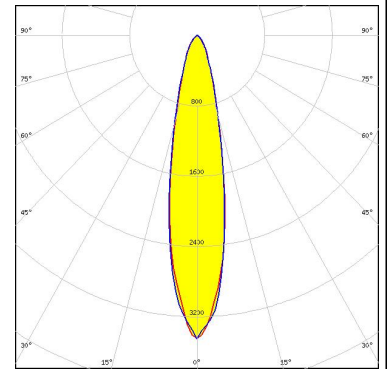


PHOTOMETRIC DATA (SIMULATED):

OSRAM

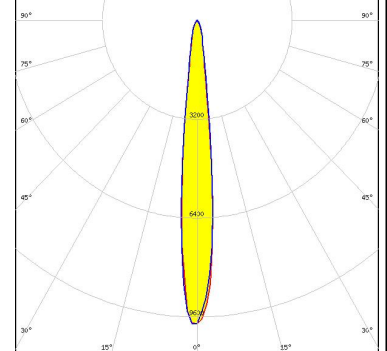
Opto Semiconductors

LED Soleriq S9
 FWHM / FWTM 22.0° / 49.0°
 Efficiency 89 %
 Peak intensity 3.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



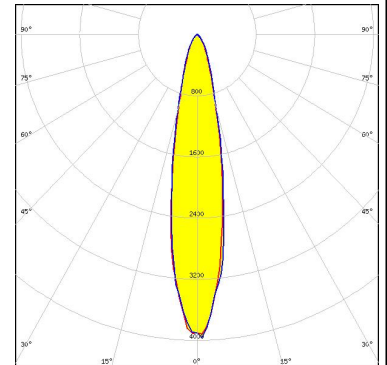
SAMSUNG

LED LC010C
 FWHM / FWTM 12.0° / 25.0°
 Efficiency 88 %
 Peak intensity 10.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 479 Typ L5



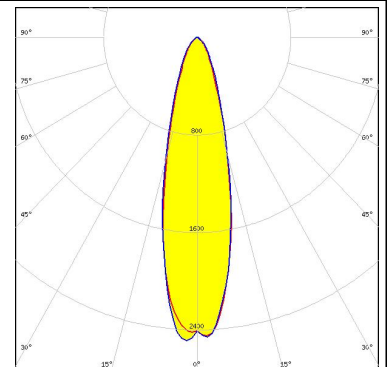
SAMSUNG

LED LC020C
 FWHM / FWTM 20.0° / 46.0°
 Efficiency 89 %
 Peak intensity 4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 479 Typ L5



SAMSUNG

LED LC040C
 FWHM / FWTM 26.0° / 59.0°
 Efficiency 87 %
 Peak intensity 2.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 479 Typ L5



PHOTOMETRIC DATA (SIMULATED):

| | |
|---|---------------|
|  | |
| SEOUL SEMICONDUCTOR | |
| LED | ZC4/6 |
| FWHM / FWTM | 20.0° / 50.0° |
| Efficiency | 88 % |
| Peak intensity | 3.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |
| Bender Wirth: 434 Typ L5 | |

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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