

MIRELLA-50-S

~15° spot beam

TECHNICAL SPECIFICATIONS:

| | |
|----------------|---|
| Dimensions | Ø 49.9 mm |
| Height | 24 mm |
| Fastening | glue |
| ROHS compliant | yes  |

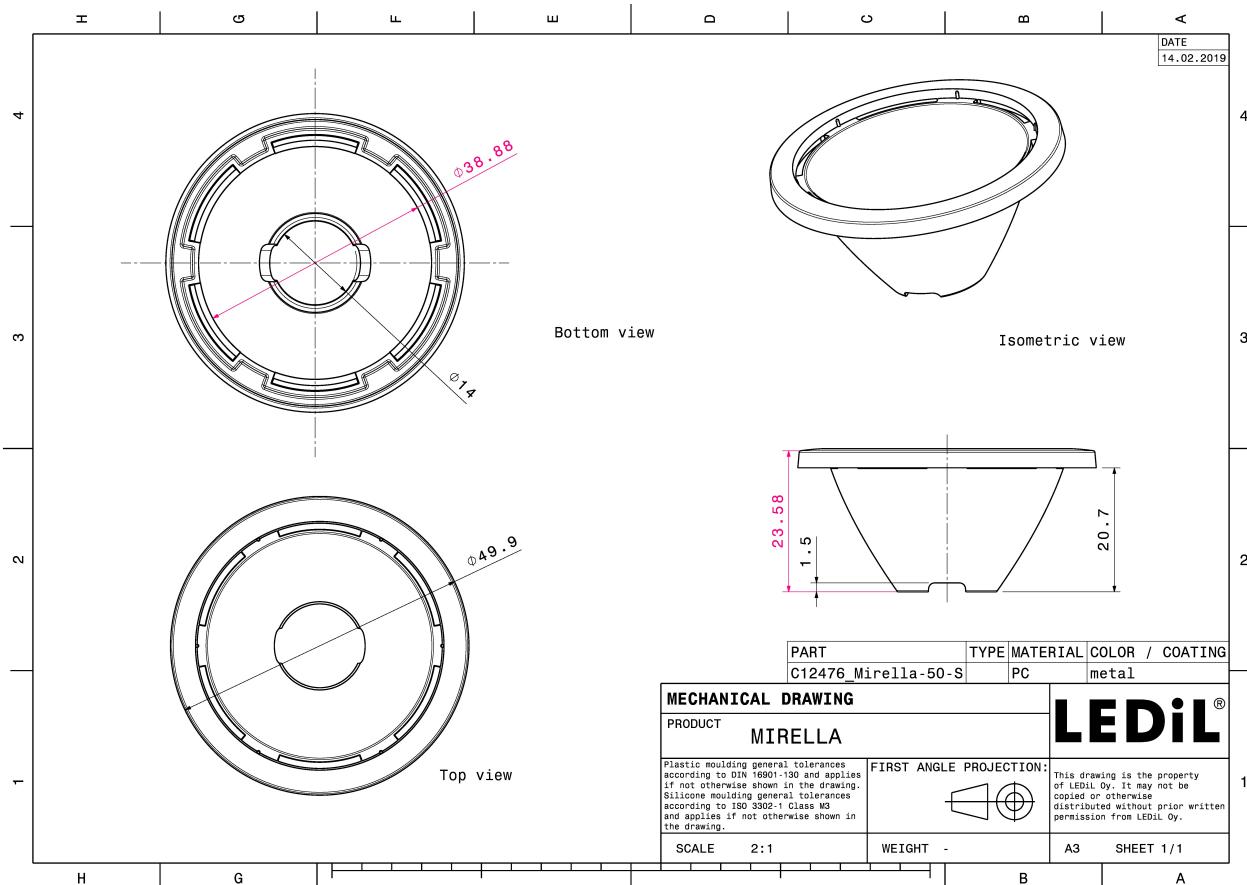


MATERIAL SPECIFICATIONS:

| Component | Type | Material | Colour | Finish | Coating |
|--------------|-----------|----------|--------|--------|---------|
| MIRELLA-50-S | Reflector | PC | metal | | lacquer |

ORDERING INFORMATION:

| Component | Qty in box | MOQ | MPQ | Box weight (kg) |
|--------------------------------|------------|-----|-----|-----------------|
| C12476_MIRELLA-50-S | 336 | 112 | 28 | 3.0 |
| » Box size: 480 x 280 x 300 mm | | | | |

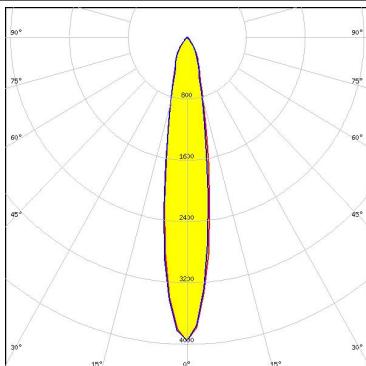
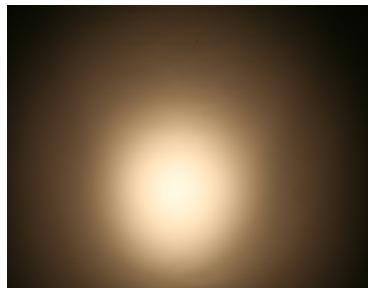


See also our general installation guide: www.ledil.com/installation_guide

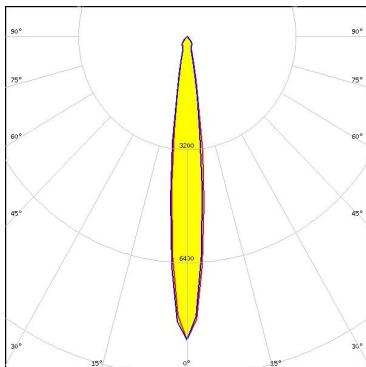
PHOTOMETRIC DATA (MEASURED):



LED BXRA LS
FWHM / FWTM 18.0° / 48.0°
Efficiency 83 %
Peak intensity 4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
 C12479_MIRELLA-DL



LED BXRA LS
FWHM / FWTM 13.0° / 27.0°
Efficiency 89 %
Peak intensity 8.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED BXRA LS
FWHM / FWTM 14.0° / 28.0°
Efficiency 84 %
Peak intensity 6.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
 C13333_MIRELLA-CL



CITIZEN

LED CLL01x
FWHM / FWTM 20.0° / 56.0°
Efficiency %
LEDs/each optic 1
Light colour White
Required components:
 C12479_MIRELLA-DL



PHOTOMETRIC DATA (MEASURED):

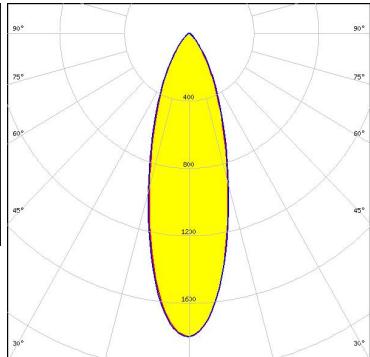
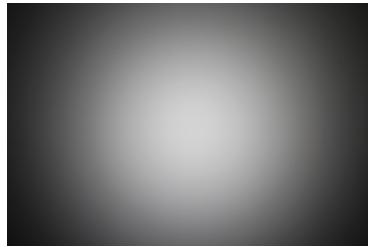
CITIZEN

LED CLL01x
FWHM / FWTM 17.0° / 32.0°
Efficiency 84 %
Peak intensity 5.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13333_MIRELLA-CL



CITIZEN

LED CLL02x/CLU02x (LES10)
FWHM / FWTM 32.0° / 70.0°
Efficiency 81 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13723_MIRELLA-RZL



CITIZEN

LED CLL02x/CLU02x (LES10)
FWHM / FWTM 20.0° / 48.0°
Efficiency 93 %
LEDs/each optic 1
Light colour White
Required components:



CITIZEN

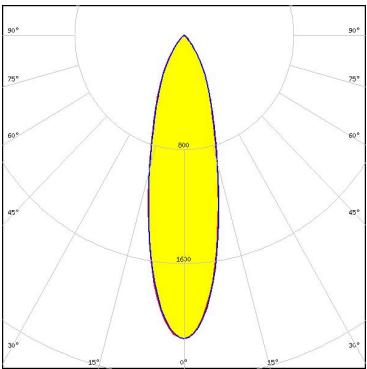
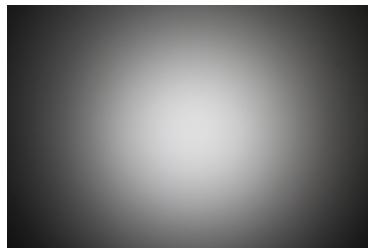
LED CLL02x/CLU02x (LES10)
FWHM / FWTM 19.0° / 50.0°
Efficiency 84 %
Peak intensity 3.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13333_MIRELLA-CL



PHOTOMETRIC DATA (MEASURED):

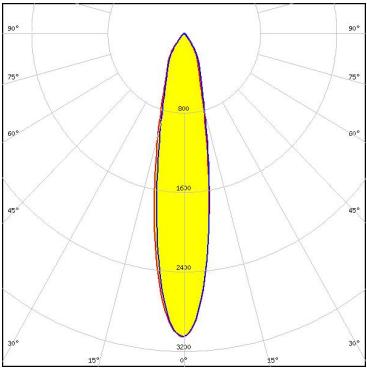
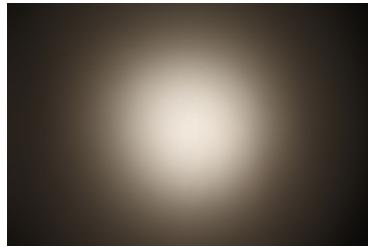
CITIZEN

LED CLL02x/CLU02x (LES10)
FWHM / FWTM 28.0° / 67.0°
Efficiency 82 %
Peak intensity 2.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
 C12479_MIRELLA-DL



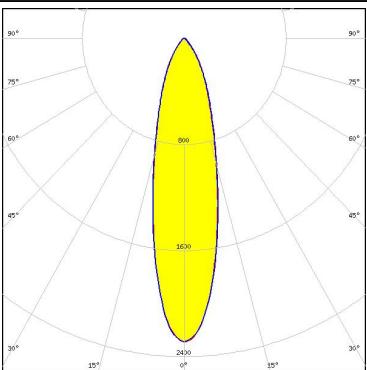
CITIZEN

LED CLU700/701/702
FWHM / FWTM 21.0° / 59.0°
Efficiency 84 %
Peak intensity 3.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
 C12479_MIRELLA-DL



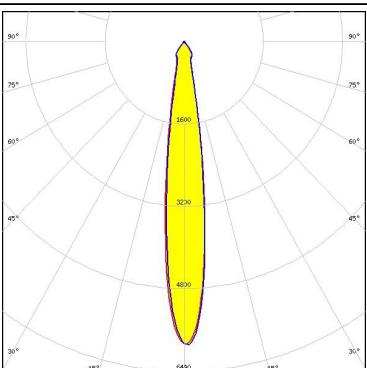
CITIZEN

LED CLU700/701/702
FWHM / FWTM 26.0° / 64.0°
Efficiency 83 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
 C13723_MIRELLA-RZL



CITIZEN

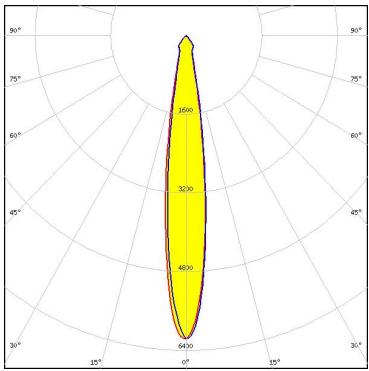
LED CLU700/701/702
FWHM / FWTM 15.0° / 32.0°
Efficiency 85 %
Peak intensity 5.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
 C13333_MIRELLA-CL



PHOTOMETRIC DATA (MEASURED):

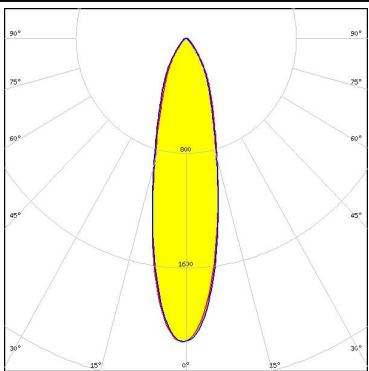
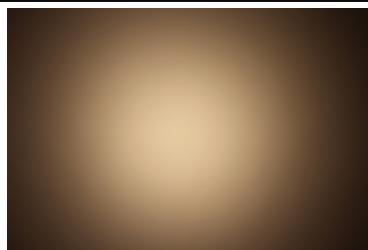
CITIZEN

LED CLU700/701/702
FWHM / FWTM 15.0° / 32.0°
Efficiency 90 %
Peak intensity 6.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



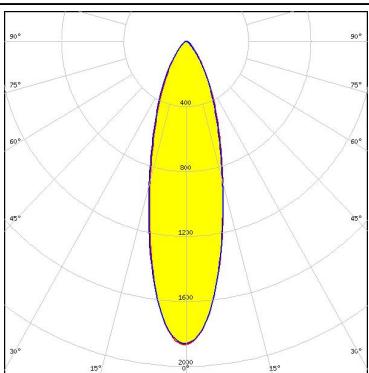
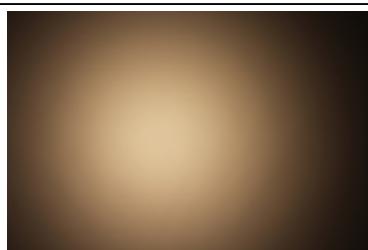
CITIZEN

LED CLU710/711
FWHM / FWTM 26.0° / 67.0°
Efficiency 83 %
Peak intensity 2.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



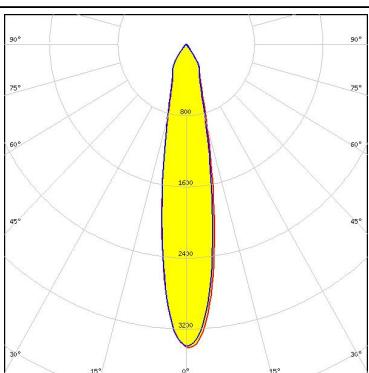
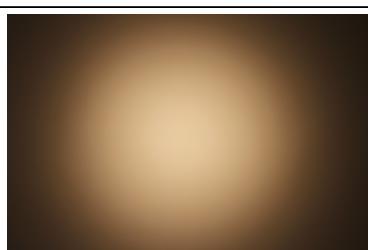
CITIZEN

LED CLU710/711
FWHM / FWTM 29.0° / 69.0°
Efficiency 83 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



CITIZEN

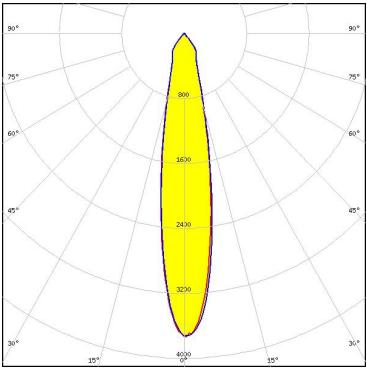
LED CLU710/711
FWHM / FWTM 20.0° / 54.0°
Efficiency 85 %
Peak intensity 3.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (MEASURED):

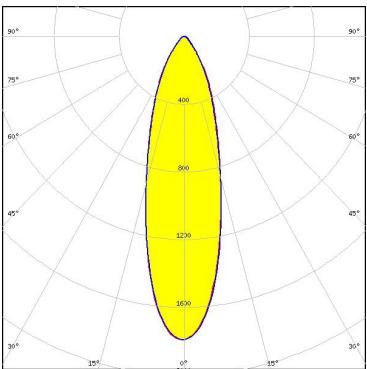
CITIZEN

LED CLU710/711
FWHM / FWTM 20.0° / 49.0°
Efficiency 90 %
Peak intensity 3.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



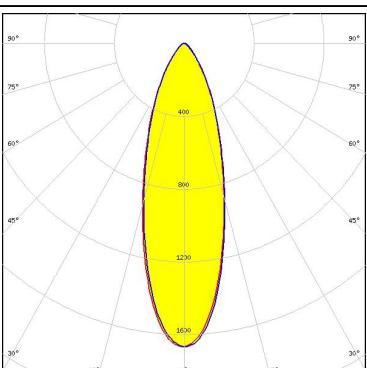
CITIZEN

LED CLU720/721
FWHM / FWTM 30.0° / 71.0°
Efficiency 82 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



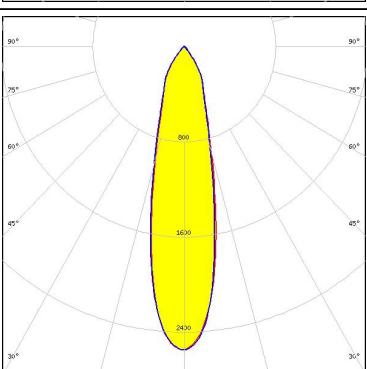
CITIZEN

LED CLU720/721
FWHM / FWTM 32.0° / 73.0°
Efficiency 83 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



CITIZEN

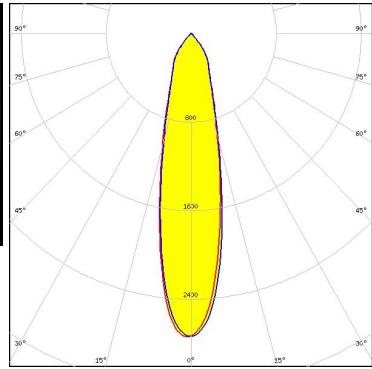
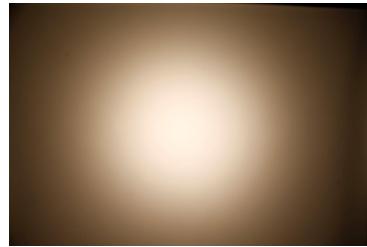
LED CLU720/721
FWHM / FWTM 25.0° / 66.0°
Efficiency 85 %
Peak intensity 2.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (MEASURED):

CITIZEN

LED CLU720/721
FWHM / FWTM 24.0° / 68.0°
Efficiency 90 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



CREE → LED

LED CXA/B 13xx
FWHM / FWTM 12.0° / 25.0°
Efficiency 87 %
Peak intensity 9.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



CREE → LED

LED CXA/B 13xx
FWHM / FWTM 12.0° / 25.0°
Efficiency 82 %
Peak intensity 8.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:

C13333_MIRELLA-CL



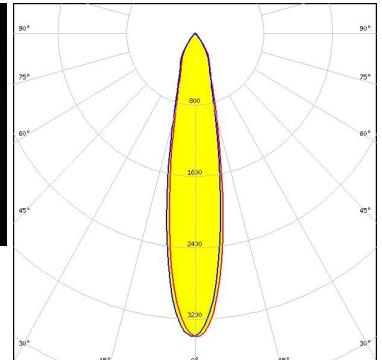
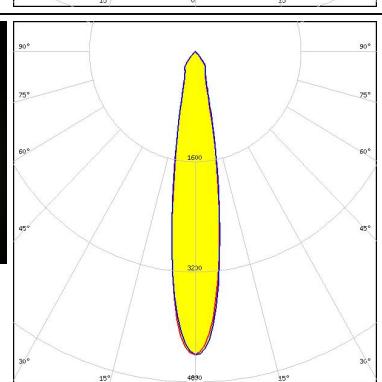
CREE → LED

LED CXA/B 13xx
FWHM / FWTM 15.0° / 36.0°
Efficiency 81 %
Peak intensity 5.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:

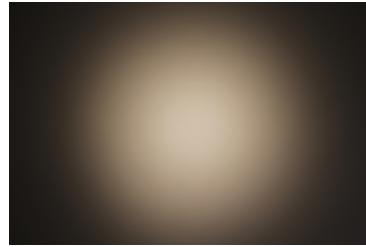
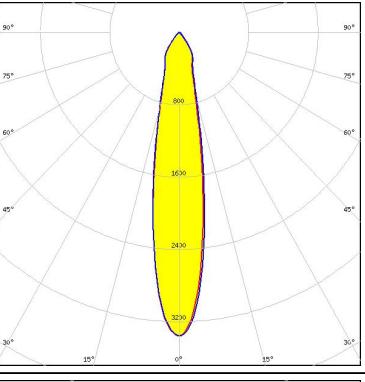
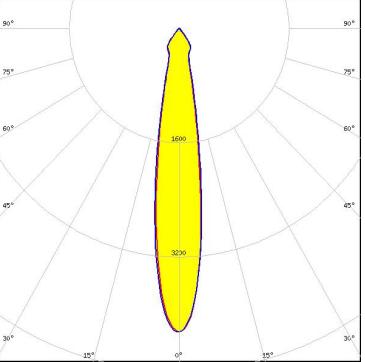
C12479_MIRELLA-DL



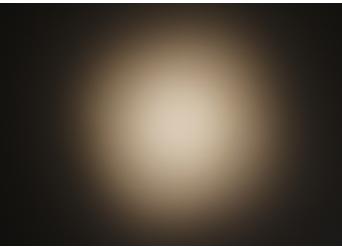
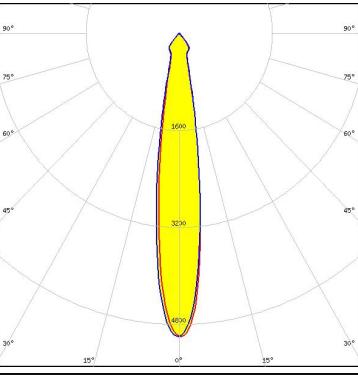
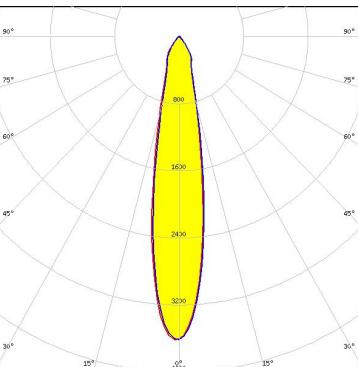
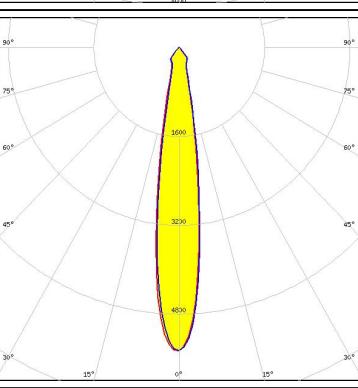
PHOTOMETRIC DATA (MEASURED):

| | | | |
|--|--|--|--|
|  | <p>LED CXA/B 15xx FWHM / FWTM 20.0° / 60.0° Efficiency 90 % Peak intensity 3.1 cd/lm LEDs/each optic 1 Light colour White Required components: C12479_MIRELLA-DL</p> |  |  |
|  | <p>LED CXA/B 15xx FWHM / FWTM 16.0° / 38.0° Efficiency 93 % Peak intensity 5.1 cd/lm LEDs/each optic 1 Light colour White Required components:</p> |  |  |
|  | <p>LED CXA/B 15xx FWHM / FWTM 19.0° / 47.0° Efficiency 84 % Peak intensity 4.3 cd/lm LEDs/each optic 1 Light colour White Required components: C13333_MIRELLA-CL</p> |  | |
|  | <p>LED CXA/B 1816 & CXA/B 1820 & CXA 1850 FWHM / FWTM 23.0° / 68.0° Efficiency 89 % Peak intensity 3.2 cd/lm LEDs/each optic 1 Light colour White Required components:</p> |  | |

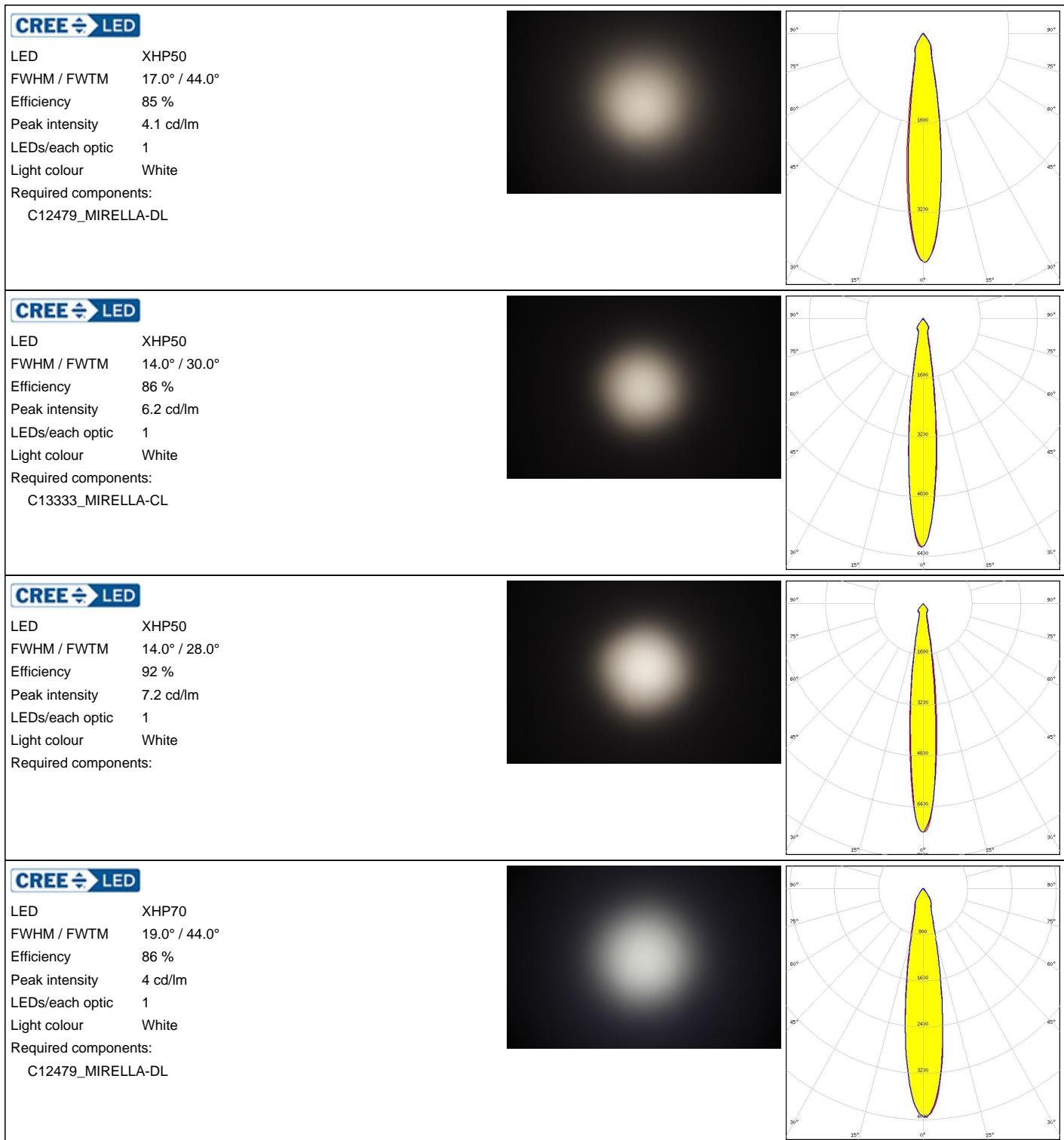
PHOTOMETRIC DATA (MEASURED):

| | |
|---|---|
|  |  |
| <p>LED CXA/B 1816 & CXA/B 1820 & CXA 1850 FWHM / FWTM 25.0° / 68.0° Efficiency 83 % Peak intensity 2.9 cd/lm LEDs/each optic 1 Light colour White Required components: C13333_MIRELLA-CL</p> |  |
| <p>LED CXA/B 1816 & CXA/B 1820 & CXA 1850 FWHM / FWTM 26.0° / 68.0° Efficiency 83 % Peak intensity 2.6 cd/lm LEDs/each optic 1 Light colour White Required components: C12479_MIRELLA-DL</p> |  |
| <p>LED MHD-E/G FWHM / FWTM 20.0° / 57.0° Efficiency 88 % Peak intensity 3.3 cd/lm LEDs/each optic 1 Light colour White Required components: C12479_MIRELLA-DL</p> |  |
| <p>LED MHD-E/G FWHM / FWTM 18.0° / 40.0° Efficiency 89 % Peak intensity 4.2 cd/lm LEDs/each optic 1 Light colour White Required components: C13333_MIRELLA-CL</p> |  |

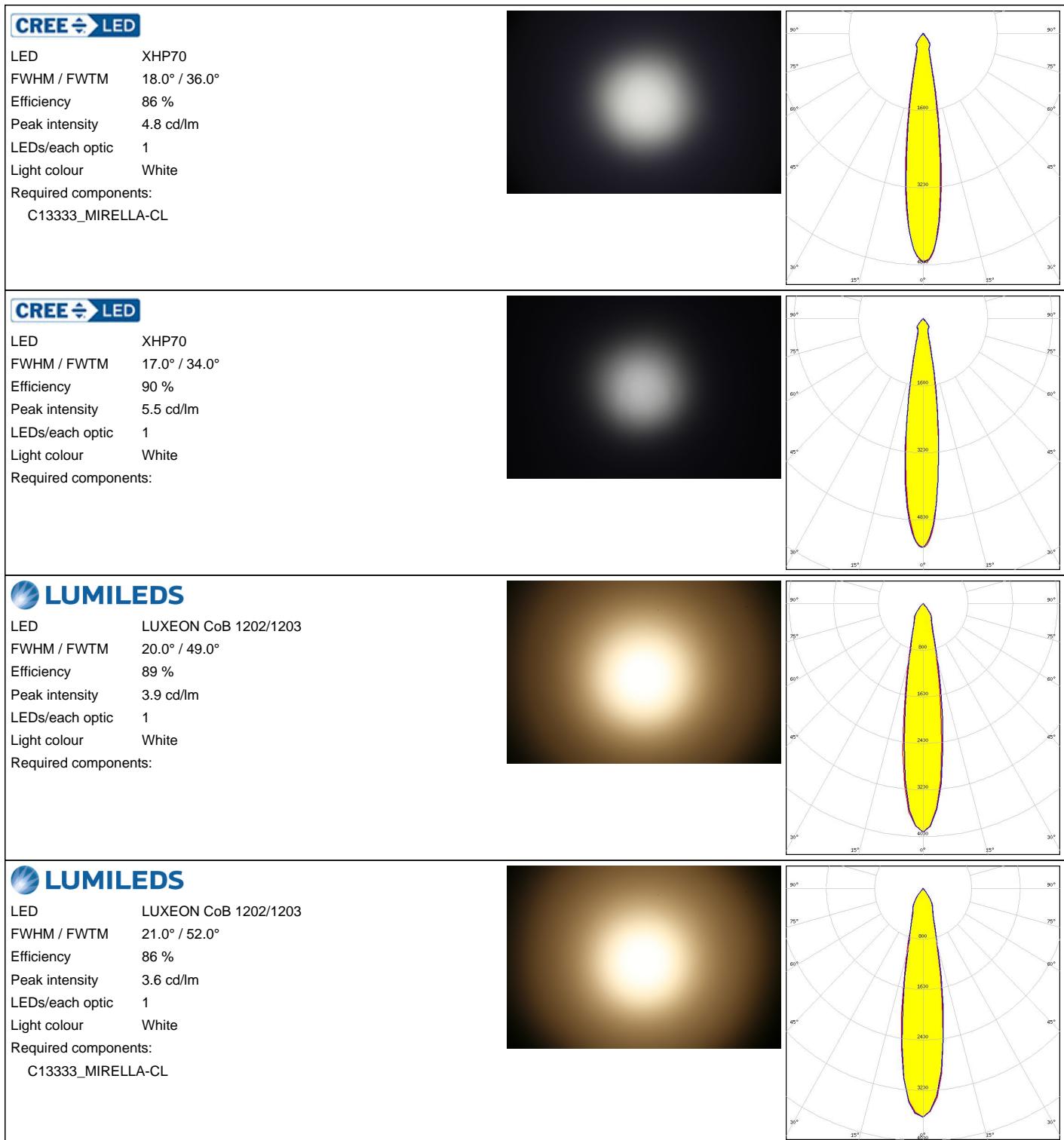
PHOTOMETRIC DATA (MEASURED):

| | | | |
|--|---|--|---|
|  | <p>LED MHD-E/G FWHM / FWTM 16.0° / 35.0° Efficiency 94 % Peak intensity 5 cd/lm LEDs/each optic 1 Light colour White Required components:</p> |  |  |
|  | <p>LED MT-G2 FWHM / FWTM 20.0° / 50.0° Efficiency 85 % Peak intensity 3.7 cd/lm LEDs/each optic 1 Light colour White Required components:</p> |  |  |
|  | <p>LED MT-G2 FWHM / FWTM 17.0° / 35.0° Efficiency 92 % Peak intensity 5.5 cd/lm LEDs/each optic 1 Light colour White Required components:</p> |  |  |
|  | <p>LED MT-G2 FWHM / FWTM 18.0° / 37.0° Efficiency 85 % Peak intensity 4.7 cd/lm LEDs/each optic 1 Light colour White Required components:</p> |  | |

PHOTOMETRIC DATA (MEASURED):



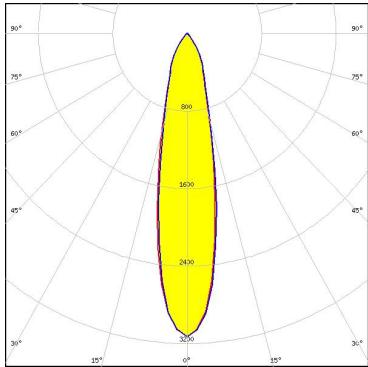
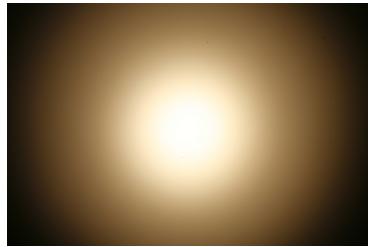
PHOTOMETRIC DATA (MEASURED):



PHOTOMETRIC DATA (MEASURED):



LED LUXEON CoB 1202/1203
 FWHM / FWTM 23.0° / 60.0°
 Efficiency 85 %
 Peak intensity 3.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12479_MIRELLA-DL



LED LUXEON S1000
 FWHM / FWTM 21.0° / 60.0°
 Efficiency %
 LEDs/each optic 1
 Light colour White
 Required components:
 C12479_MIRELLA-DL



LED LUXEON S1000
 FWHM / FWTM 14.0° / 37.0°
 Efficiency 84 %
 Peak intensity 5.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13333_MIRELLA-CL



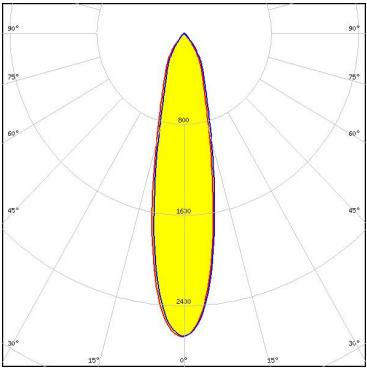
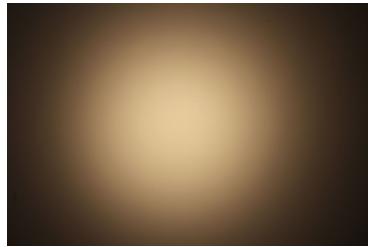
LED LUXEON S1000
 FWHM / FWTM 17.0° / 38.0°
 Efficiency %
 LEDs/each optic 1
 Light colour White
 Required components:



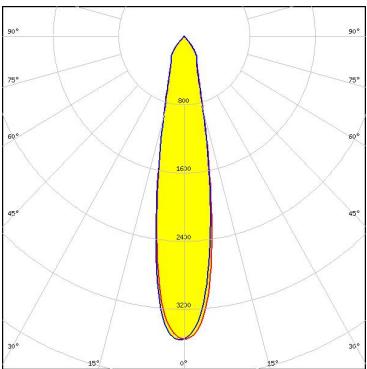
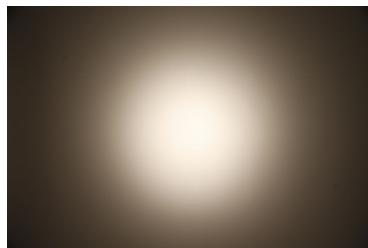
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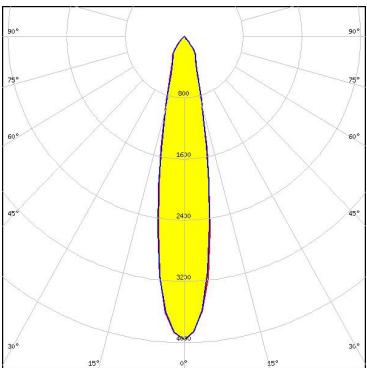
LED CxM-9 (13.5x13.5)
FWHM / FWTM 24.0° / 63.0°
Efficiency 84 %
Peak intensity 2.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
 C12479_MIRELLA-DL



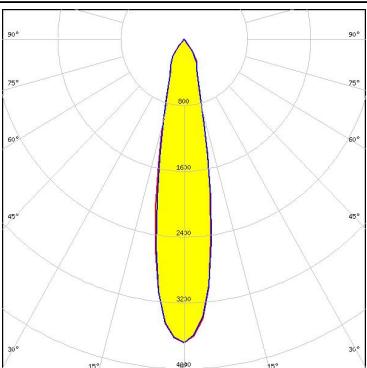
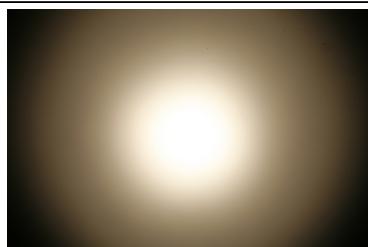
LED CxM-9 (13.5x13.5)
FWHM / FWTM 21.0° / 53.0°
Efficiency 90 %
Peak intensity 3.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:



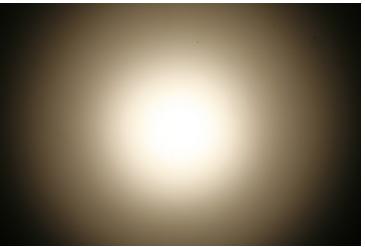
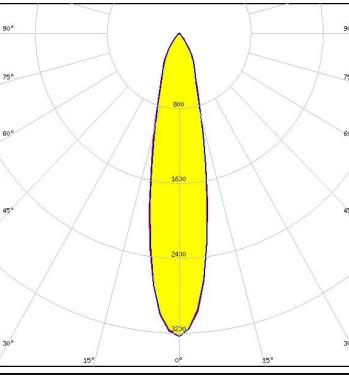
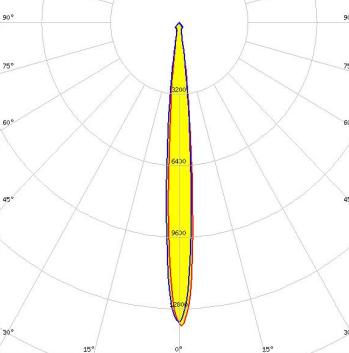
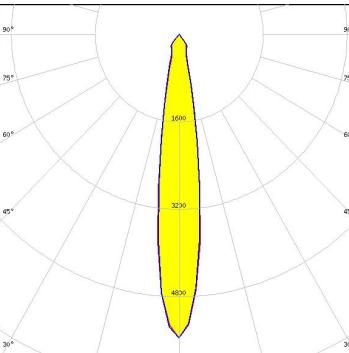
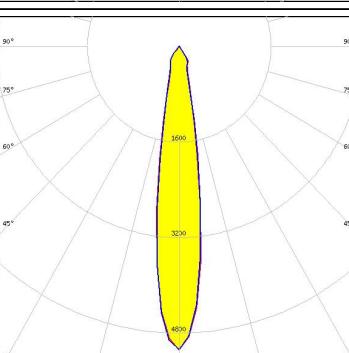
LED COB L-Type (LES 9)
FWHM / FWTM 20.0° / 48.0°
Efficiency 90 %
Peak intensity 4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED COB L-Type (LES 9)
FWHM / FWTM 22.0° / 53.0°
Efficiency 87 %
Peak intensity 3.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
 C13333_MIRELLA-CL



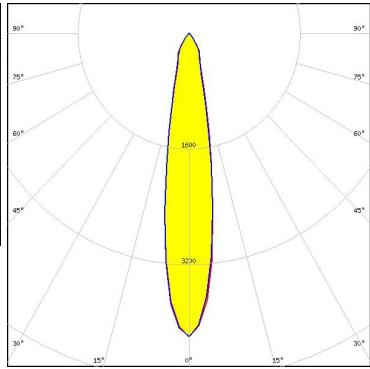
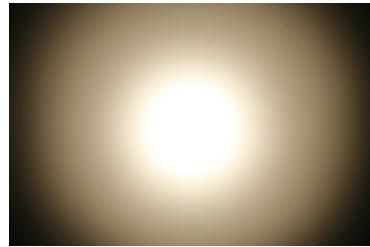
PHOTOMETRIC DATA (MEASURED):

| | | | |
|--|---|--|---|
|  | LED COB L-Type (LES 9) FWHM / FWTM 23.0° / 59.0° Efficiency 86 % Peak intensity 3.2 cd/lm LEDs/each optic 1 Light colour White Required components: C12479_MIRELLA-DL |  |  |
|  | LED NFMW48xA FWHM / FWTM 9.5° / 20.0° Efficiency 88 % Peak intensity 13.6 cd/lm LEDs/each optic 1 Light colour White Required components: |  |  |
|  | LED NSCxL036A FWHM / FWTM 17.0° / 35.0° Efficiency 88 % Peak intensity 5.6 cd/lm LEDs/each optic 1 Light colour White Required components: |  |  |
|  | LED NSCxL036A FWHM / FWTM 17.0° / 37.0° Efficiency 84 % Peak intensity 5 cd/lm LEDs/each optic 1 Light colour White Required components: C13333_MIRELLA-CL |  |  |

PHOTOMETRIC DATA (MEASURED):



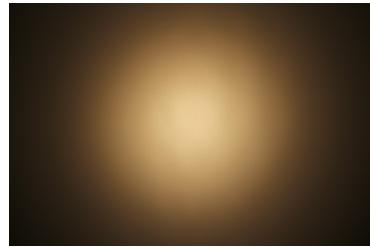
LED NSCxL036A
 FWHM / FWTM 19.0° / 46.0°
 Efficiency 84 %
 Peak intensity 4.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12479_MIRELLA-DL



OSRAM

Opto Semiconductors

LED Duris S10
 FWHM / FWTM 20.0° / 57.0°
 Efficiency 81 %
 Peak intensity 3.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12479_MIRELLA-DL



OSRAM

Opto Semiconductors

LED Duris S10
 FWHM / FWTM 15.0° / 33.0°
 Efficiency 83 %
 Peak intensity 6.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13333_MIRELLA-CL



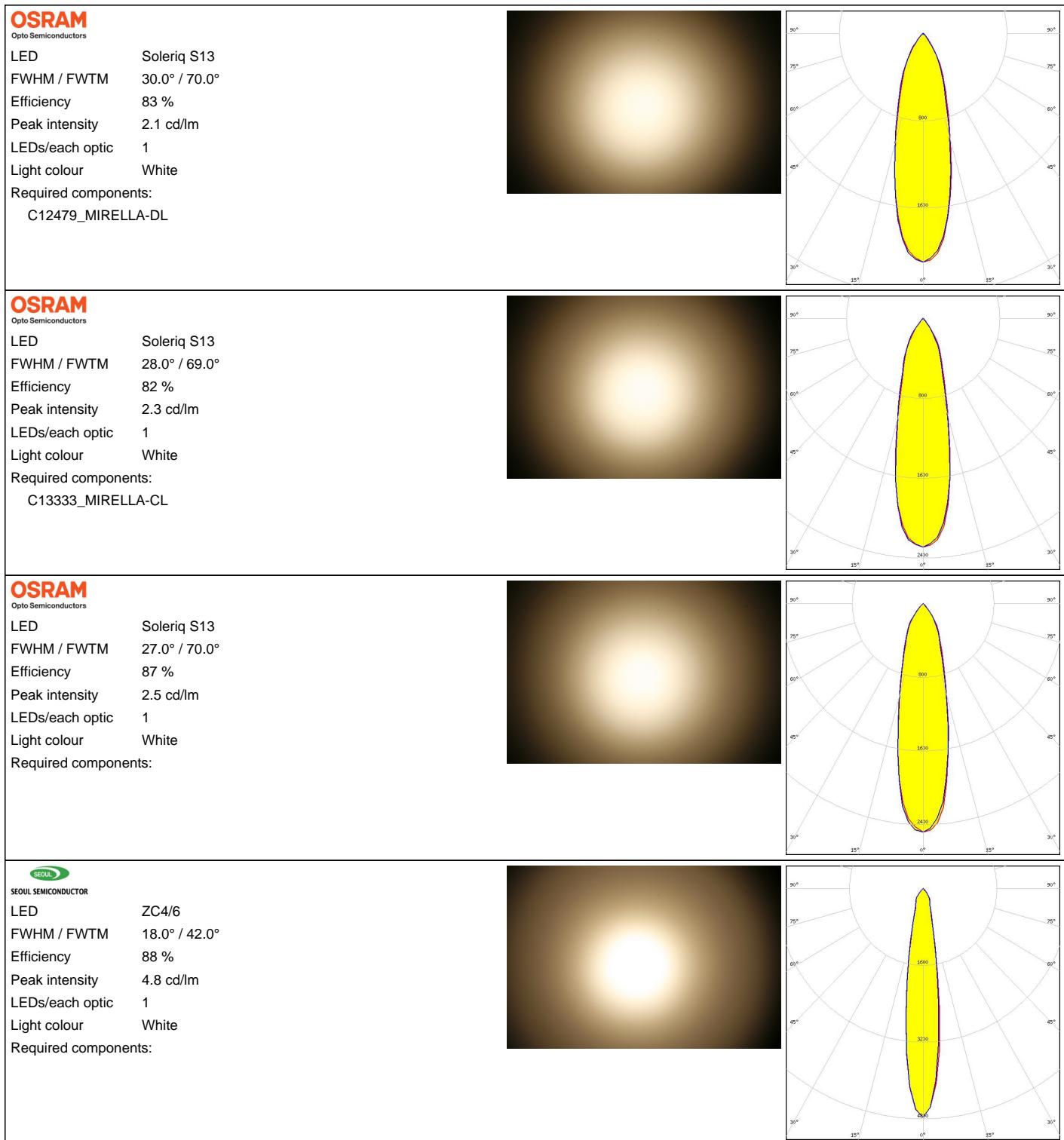
OSRAM

Opto Semiconductors

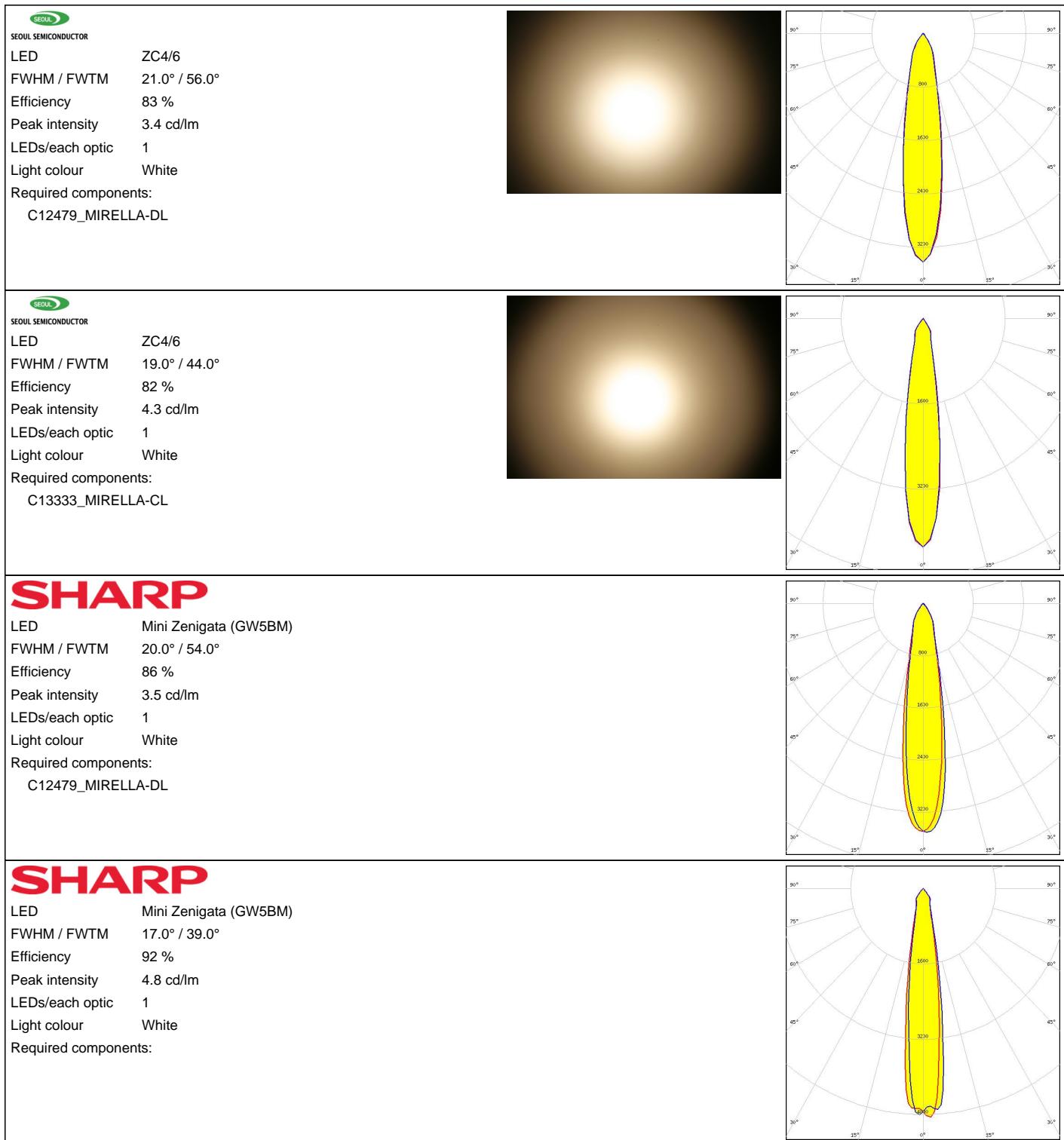
LED Duris S10
 FWHM / FWTM 15.0° / 33.0°
 Efficiency 89 %
 Peak intensity 6.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (MEASURED):



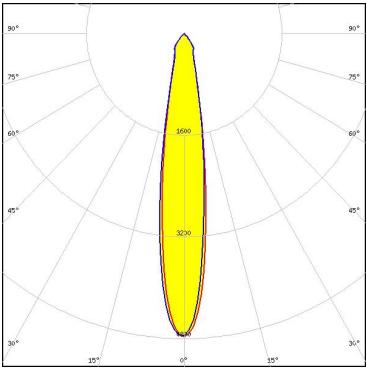
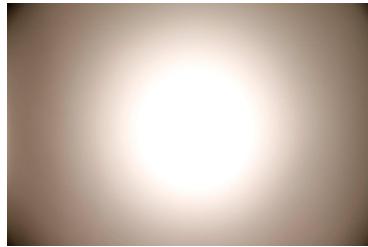
PHOTOMETRIC DATA (MEASURED):



PHOTOMETRIC DATA (MEASURED):

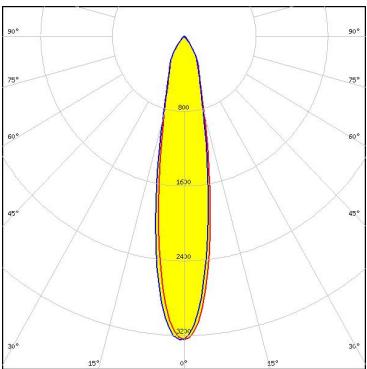
SHARP

LED Mini Zenigata (GW6BM)
FWHM / FWTM 17.0° / 41.0°
Efficiency 91 %
Peak intensity 4.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



SHARP

LED Mini Zenigata (GW6BM)
FWHM / FWTM 20.0° / 56.0°
Efficiency 84 %
Peak intensity 3.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:

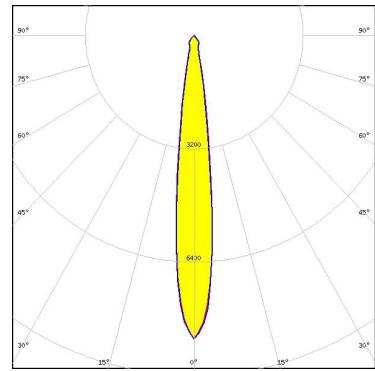


PHOTOMETRIC DATA (SIMULATED):

LUMILEDS

| | |
|-----------------|---------------|
| LED | LUXEON 7070 |
| FWHM / FWTM | 14.0° / 27.0° |
| Efficiency | 96 % |
| Peak intensity | 8.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

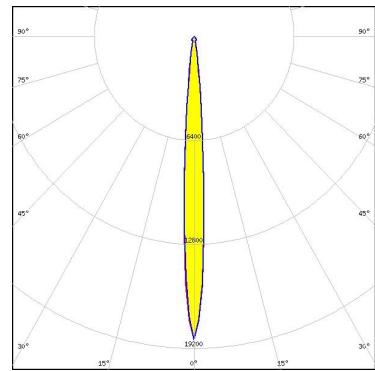
Required components:



LUMILEDS

| | |
|-----------------|--------------|
| LED | LUXEON V |
| FWHM / FWTM | 7.7° / 17.0° |
| Efficiency | 89 % |
| Peak intensity | 18.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

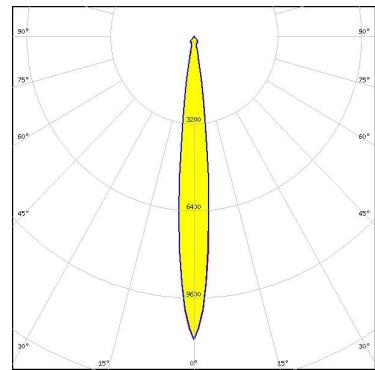
Required components:



NICHIA

| | |
|-----------------|---------------|
| LED | NV4x144A |
| FWHM / FWTM | 12.0° / 22.0° |
| Efficiency | 90 % |
| Peak intensity | 11.1 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

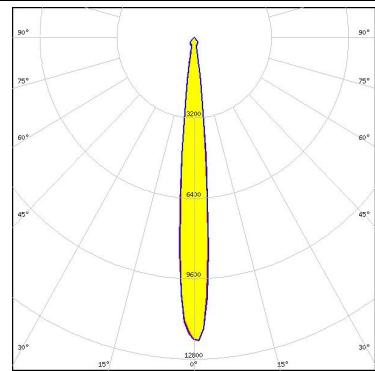
Required components:



OSRAM

| | |
|-----------------|----------------|
| LED | OSCONIQ P 7070 |
| FWHM / FWTM | 11.0° / 21.0° |
| Efficiency | 91 % |
| Peak intensity | 12.2 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:



PHOTOMETRIC DATA (SIMULATED):

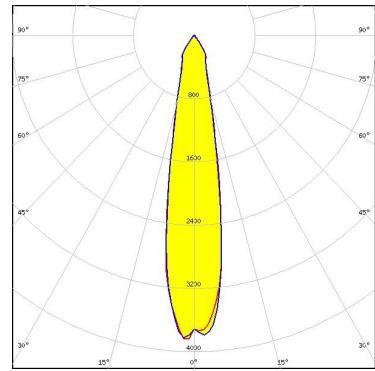
OSRAM

Opto Semiconductors

| | |
|-----------------|---------------|
| LED | Soleriq S9 |
| FWHM / FWTM | 20.0° / 48.0° |
| Efficiency | 87 % |
| Peak intensity | 3.9 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:

C13333_MIRELLA-CL



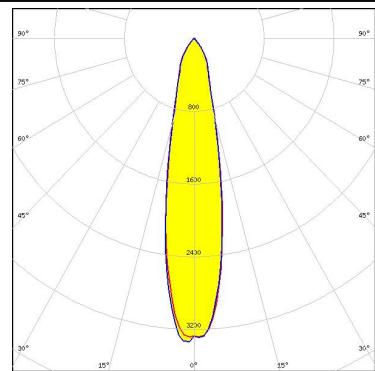
OSRAM

Opto Semiconductors

| | |
|-----------------|---------------|
| LED | Soleriq S9 |
| FWHM / FWTM | 21.0° / 55.0° |
| Efficiency | 86 % |
| Peak intensity | 3.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:

C12479_MIRELLA-DL

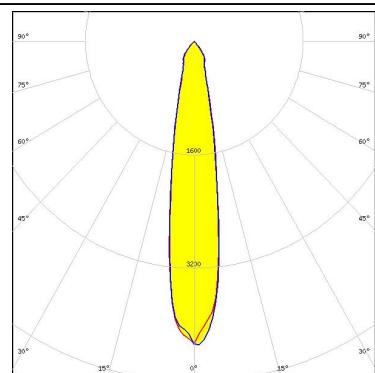


OSRAM

Opto Semiconductors

| | |
|-----------------|---------------|
| LED | Soleriq S9 |
| FWHM / FWTM | 19.0° / 44.0° |
| Efficiency | 91 % |
| Peak intensity | 4.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:



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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