# CARMEN-W-C-WHT

**~55° wide beam. Assembly with holder C compatible with HEKLA sockets and connectors. White version.**




## TECHNICAL SPECIFICATIONS:

| | |
|---|---|
| Dimensions | Ø 69.5 mm |
| Height | 41.5 mm |
| Fastening | socket |
| ROHS compliant | yes |

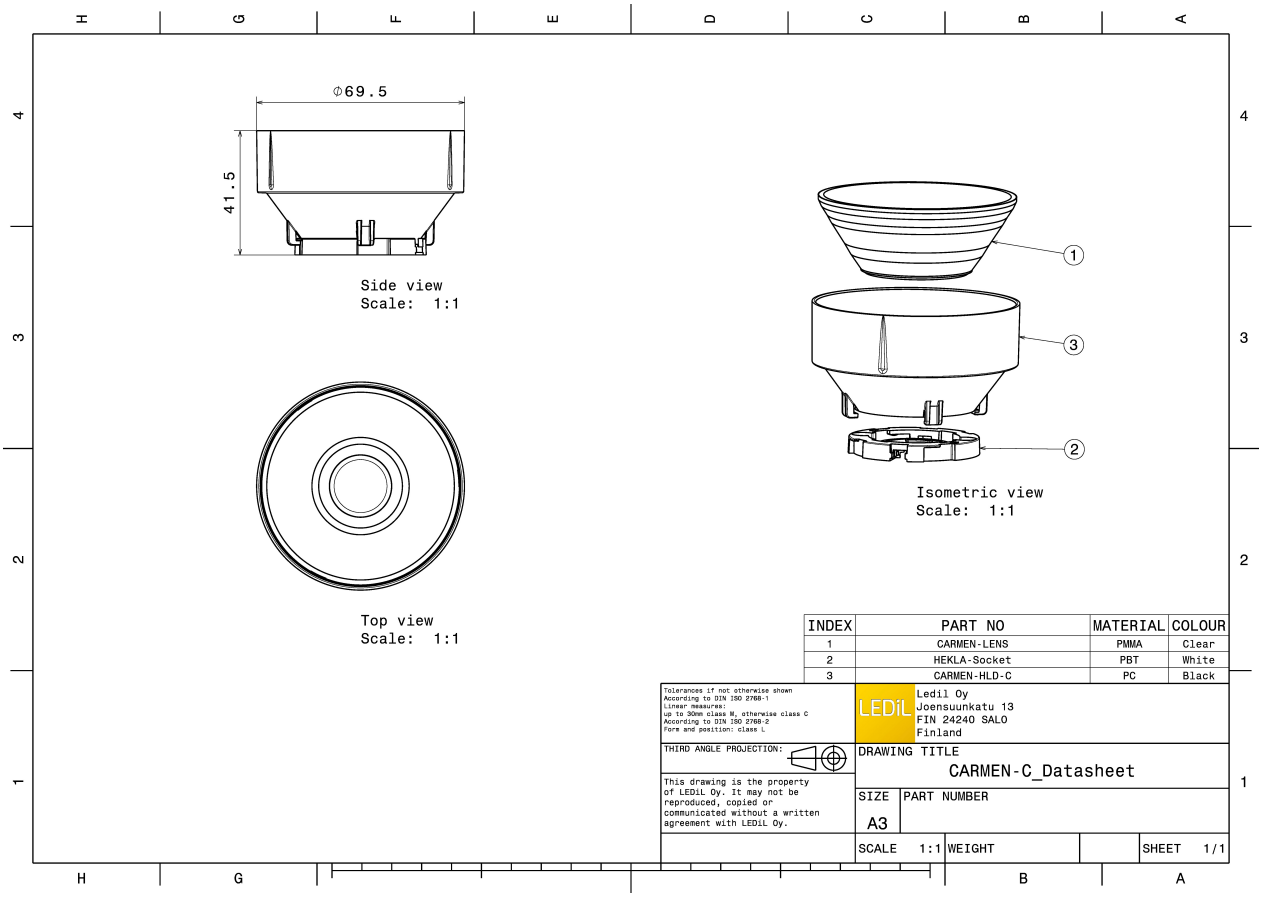
## MATERIAL SPECIFICATIONS:

| Component | Type | Material | Colour | Finish |
|---|---|---|---|---|
| CARMEN-W | Single lens | PMMA | clear | |
| CARMEN-HLD-C-WHT | Holder | PC | white | |

## ORDERING INFORMATION:

| Component | | Qty in box | MOQ | MPQ | Box weight (kg) |
|---|---|---|---|---|---|
| CP16939_CARMEN-W-C-WHT<br>» Box size: 476 x 273 x 292 mm | Single lens | 150 | 150 | 15 | 6.2 |


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| INDEX | PART NO | MATERIAL | COLOUR |
|---|---|---|---|
| 1 | CARMEN-LENS | PMMA | Clear |
| 2 | HEKLA-Socket | PBT | White |
| 3 | CARMEN-HLD-C | PC | Black |

Tolerances if not otherwise shown
According to DIN ISO 2768-1
Linear measures:
up to 30mm class H, otherwise class C
According to DIN ISO 2768-2
Form and position: class L

THIRD ANGLE PROJECTION:

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Ledil Oy
Joensuunkatu 13
FIN 24240 SALO
Finland

DRAWING TITLE
CARMEN-C_Datasheet

SIZE A3 | PART NUMBER

SCALE 1:1 | WEIGHT | SHEET 1/1

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


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## PHOTOMETRIC DATA (MEASURED):

bridgelux

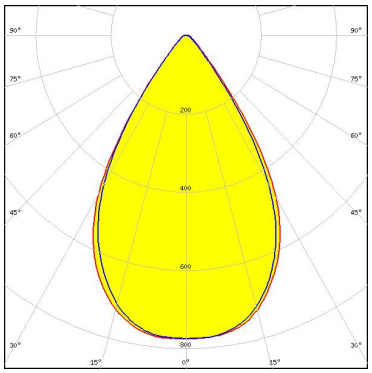
| | |
|---|---|
| LED | Vesta DTW 13mm (21W) |
| FWHM / FWTM | 65.0° / 88.0° |
| Efficiency | 83 % |
| Peak intensity | 0.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour | Tunable White |

Required components:

C16142_HEKLA-SOCKET-K

Bender Wirth: 491 Typ L8





bridgelux

| | |
|---|---|
| LED | Vesta TW 6mm DP |
| FWHM / FWTM | 50.0° / 73.0° |
| Efficiency | 88 % |
| Peak intensity | 1.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:

C16142_HEKLA-SOCKET-K

Bender Wirth: 504 Typ L8



bridgelux

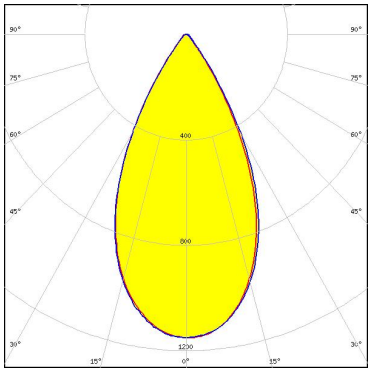
| | |
|---|---|
| LED | Vesta TW 9mm (9W) DP |
| FWHM / FWTM | 52.0° / 77.0° |
| Efficiency | 88 % |
| Peak intensity | 1.2 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:

C16142_HEKLA-SOCKET-K

Bender Wirth: 489 Typ L8





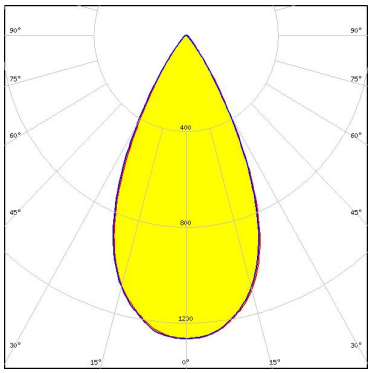
CITIZEN

| | |
|---|---|
| LED | CLU700/701/702 |
| FWHM / FWTM | 52.0° / 75.0° |
| Efficiency | 92 % |
| Peak intensity | 1.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:

F15255_HEKLA-SOCKET-C






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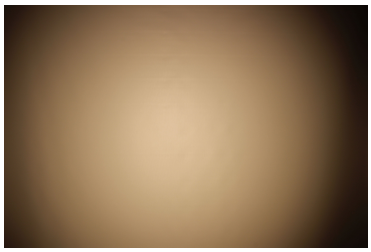
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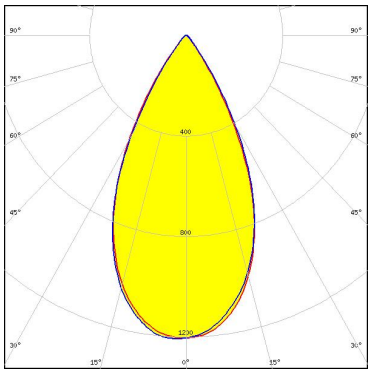
### CITIZEN

| | |
|---|---|
| LED | CLU710/711 |
| FWHM / FWTM | 53.0° / 76.0° |
| Efficiency | 89 % |
| Peak intensity | 1.2 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:

F15859_HEKLA-SOCKET-I





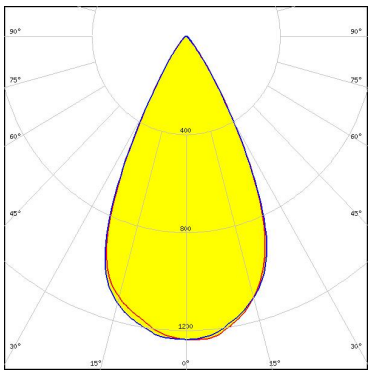
### CITIZEN

| | |
|---|---|
| LED | CLU7B2 |
| FWHM / FWTM | 53.0° / 75.0° |
| Efficiency | 93 % |
| Peak intensity | 1.2 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:

F15255_HEKLA-SOCKET-C





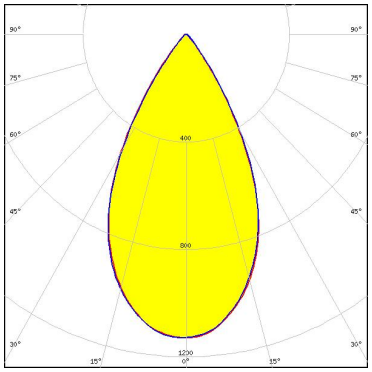
### CREE LED

| | |
|---|---|
| LED | CXA/B 15xx |
| FWHM / FWTM | 55.0° / 79.0° |
| Efficiency | 91 % |
| Peak intensity | 1.1 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:

F15256_HEKLA-SOCKET-D





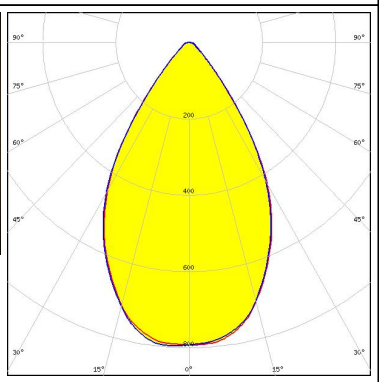
### LUMILEDS

| | |
|---|---|
| LED | LUXEON CX Plus CoB L08 (Gen2) |
| FWHM / FWTM | 63.0° / 92.0° |
| Efficiency | 85 % |
| Peak intensity | 0.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:

Bender Wirth: 637a Hekla






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## PHOTOMETRIC DATA (MEASURED):

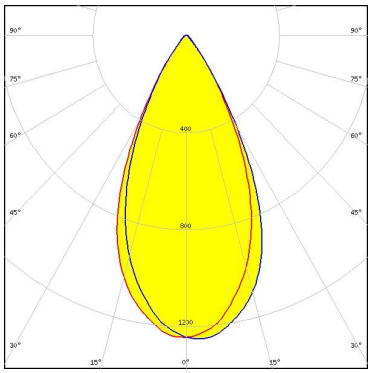
LUMILEDS

| | |
|---|---|
| LED | LUXEON CX Plus CoB - HD S01H4 |
| FWHM / FWTM | 50.0° / 77.0° |
| Efficiency | 89 % |
| Peak intensity | 1.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:

Bender Wirth: 634c Hekla





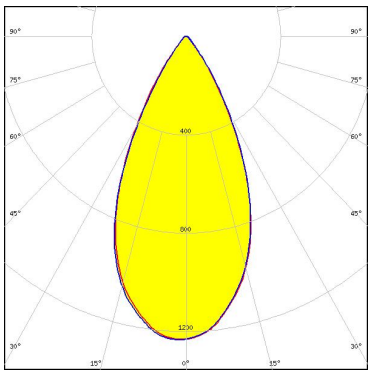
LUMILEDS

| | |
|---|---|
| LED | LUXEON CX Plus CoB - HD S01H6 / HD S02H6 |
| FWHM / FWTM | 51.0° / 77.0° |
| Efficiency | 89 % |
| Peak intensity | 1.2 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:

Bender Wirth: 634c Hekla





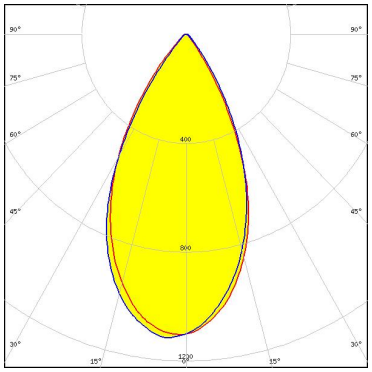
LUMILEDS

| | |
|---|---|
| LED | LUXEON CX Plus CoB - HD S04H9 |
| FWHM / FWTM | 53.0° / 80.0° |
| Efficiency | 88 % |
| Peak intensity | 1.1 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:

Bender Wirth: 634c Hekla





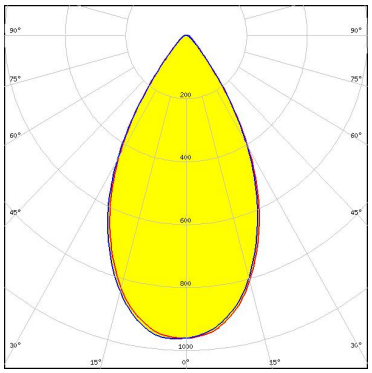
LUMILEDS

| | |
|---|---|
| LED | LUXEON CX Plus CoB L04 / L05 (Gen2) |
| FWHM / FWTM | 57.0° / 85.0° |
| Efficiency | 87 % |
| Peak intensity | 1 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:

Bender Wirth: 637a Hekla






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## PHOTOMETRIC DATA (MEASURED):

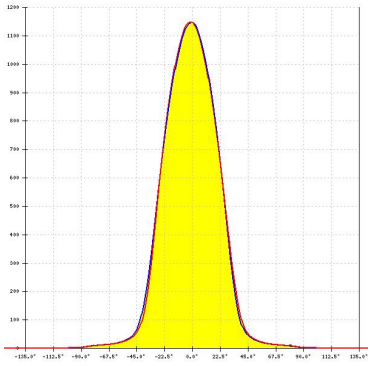
LUMILEDS

| | |
|---|---|
| LED | LUXEON CX Plus CoB M02 / M03 (Gen2) |
| FWHM / FWTM | 52.0° / 79.0° |
| Efficiency | 88 % |
| Peak intensity | 1.1 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:

Bender Wirth: 641a Hekla





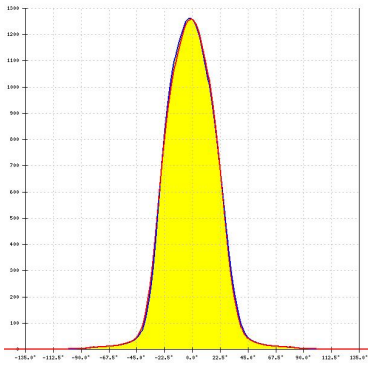
LUMILEDS

| | |
|---|---|
| LED | LUXEON CX Plus CoB S01 (Gen2) |
| FWHM / FWTM | 50.0° / 76.0° |
| Efficiency | 89 % |
| Peak intensity | 1.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:

Bender Wirth: 634c Hekla





LUMILEDS

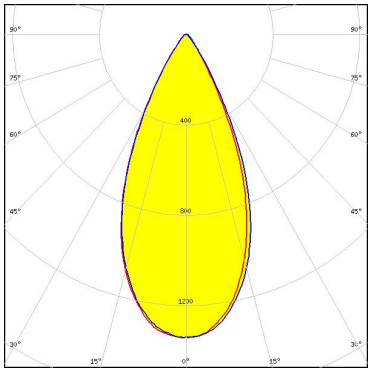
| | |
|---|---|
| LED | LUXEON Fusion 21-up (20x24) |
| FWHM / FWTM | 48.0° / 73.0° |
| Efficiency | 88 % |
| Peak intensity | 1.3 cd/lm |
| LEDs/each optic | 21 |
| Light colour | White |

Required components:

C16142_HEKLA-SOCKET-K

Bender Wirth: 442 Typ L8



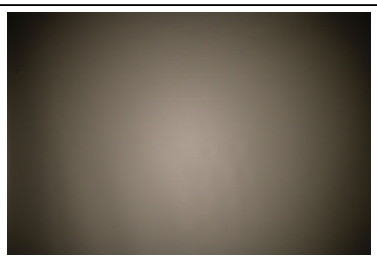


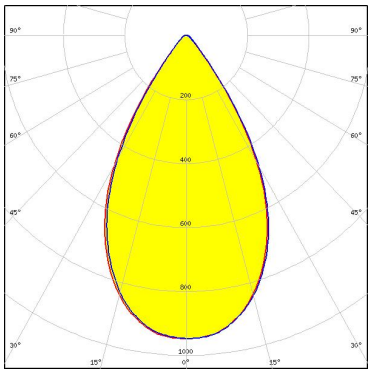
LUMINUS

| | |
|---|---|
| LED | CxM-11 (19x19) |
| FWHM / FWTM | 60.0° / 83.0° |
| Efficiency | 88 % |
| Peak intensity | 0.9 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:

F15859_HEKLA-SOCKET-I






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## PHOTOMETRIC DATA (MEASURED):

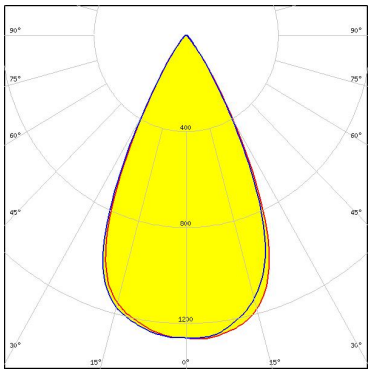
LUMINUS

| | |
|---|---|
| LED | CXM-3 |
| FWHM / FWTM | 53.0° / 74.0° |
| Efficiency | 95 % |
| Peak intensity | 1.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:

F15255_HEKLA-SOCKET-C





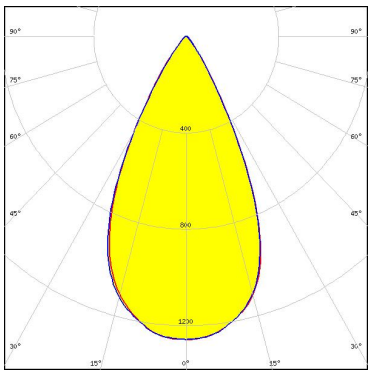
LUMINUS

| | |
|---|---|
| LED | CXM-4 |
| FWHM / FWTM | 52.0° / 74.0° |
| Efficiency | 92 % |
| Peak intensity | 1.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:

F15255_HEKLA-SOCKET-C





SAMSUNG

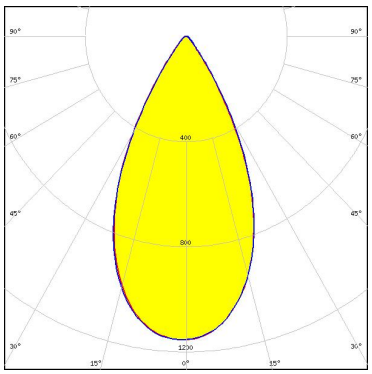
| | |
|---|---|
| LED | LC010T (Tunable White) |
| FWHM / FWTM | 52.0° / 77.0° |
| Efficiency | 87 % |
| Peak intensity | 1.2 cd/lm |
| LEDs/each optic | 1 |
| Light colour | Tunable White |

Required components:

C16142_HEKLA-SOCKET-K

Bender Wirth: 501 Typ L8



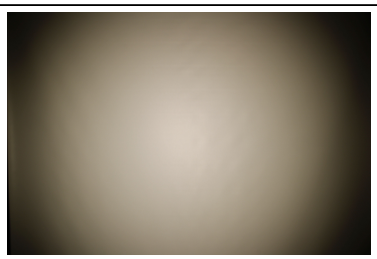


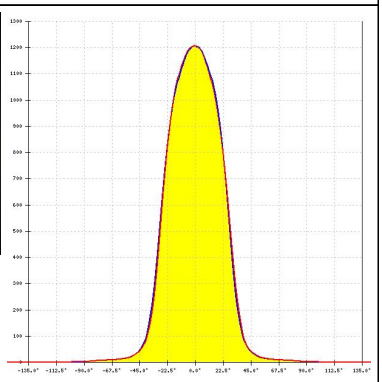
XICATO

| | |
|---|---|
| LED | XOB 6 mm |
| FWHM / FWTM | 54.0° / 76.0° |
| Efficiency | 91 % |
| Peak intensity | 1.2 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:

F15255_HEKLA-SOCKET-C






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## PHOTOMETRIC DATA (MEASURED):

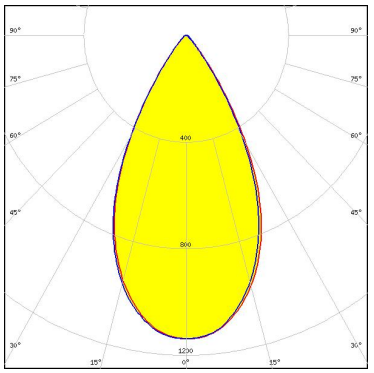
**XICATO**

| | |
|---|---|
| LED | XOB 9.8 mm |
| FWHM / FWTM | 54.0° / 79.0° |
| Efficiency | 90 % |
| Peak intensity | 1.1 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:

F15255_HEKLA-SOCKET-C



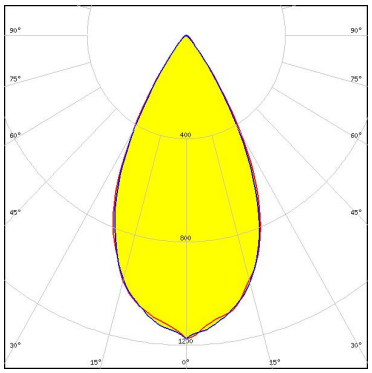



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## PHOTOMETRIC DATA (SIMULATED):

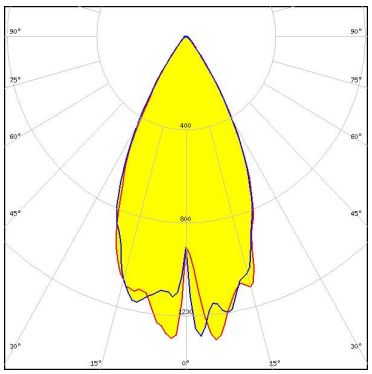
### CITIZEN

| | |
|---|---|
| LED | CLL02x/CLU02x (LES10) |
| FWHM / FWTM | 54.0° / 76.0° |
| Efficiency | 87 % |
| Peak intensity | 1.2 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



### TRIDONIC

| | |
|---|---|
| LED | SLE G7 LES09 |
| FWHM / FWTM | 51.0° / 76.0° |
| Efficiency | 90 % |
| Peak intensity | 1.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |
| F15255_HEKLA-SOCKET-C | |




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## 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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**LEDiL Oy**
Joensuunkatu 13
FI-24240 SALO
Finland

**LEDiL Inc.**
228 West Page Street
Suite D
Sycamore IL 60178
USA

**Ledil Optics Technology (Shenzhen) Co., Ltd.**
# 405 , Block B
Casic Motor Building
Shenzhen 518057
P.R.CHINA

**Local sales and technical support**
www.ledil.com/
where_to_buy

**Shipping locations**
Salo, Finland
Hong Kong, China

**Distribution Partners**
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