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:

<table>
<thead>
<tr>
<th>Component</th>
<th>Type</th>
<th>Material</th>
<th>Colour</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>CARMEN-W</td>
<td>Single lens</td>
<td>PMMA</td>
<td>clear</td>
<td></td>
</tr>
<tr>
<td>CARMEN-HLD-C-WHT</td>
<td>Holder</td>
<td>PC</td>
<td>white</td>
<td></td>
</tr>
</tbody>
</table>

ORDERING INFORMATION:

<table>
<thead>
<tr>
<th>Component</th>
<th>Qty in box</th>
<th>MOQ</th>
<th>MPQ</th>
<th>Box weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP16939_CARMEN-W-C-WHT</td>
<td>150</td>
<td>150</td>
<td>15</td>
<td>6.2</td>
</tr>
</tbody>
</table>

» Box size: 476 x 273 x 292 mm

Last update: 14/01/2020       Subject to change without prior notice       Published: 18/12/2018

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See also our general installation guide: [www.ledil.com/installation_guide](http://www.ledil.com/installation_guide)
PHOTOMETRIC DATA (MEASURED):

**LED**
- **Vesta DTW 13mm (21W)**
  - FWHM / FWTH: 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

**LED**
- **Vesta TW 6mm DP**
  - FWHM / FWTH: 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

**LED**
- **Vesta TW 9mm (9W) DP**
  - FWHM / FWTH: 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**
- **CLU700/701/702**
  - FWHM / FWTH: 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
### PHOTOMETRIC DATA (MEASURED):

#### CITIZEN

<table>
<thead>
<tr>
<th>LED</th>
<th>FWHM / FWTM</th>
<th>Efficiency</th>
<th>Peak intensity</th>
<th>LEDs/each optic</th>
<th>Light colour</th>
<th>Required components</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLU710/711</td>
<td>53.0° / 76.0°</td>
<td>89 %</td>
<td>1.2 cd/lm</td>
<td>1</td>
<td>White</td>
<td>F15859_HEKLA-SOCKET-I</td>
</tr>
</tbody>
</table>

#### CITIZEN

<table>
<thead>
<tr>
<th>LED</th>
<th>FWHM / FWTM</th>
<th>Efficiency</th>
<th>Peak intensity</th>
<th>LEDs/each optic</th>
<th>Light colour</th>
<th>Required components</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLU7B2</td>
<td>53.0° / 75.0°</td>
<td>93 %</td>
<td>1.2 cd/lm</td>
<td>1</td>
<td>White</td>
<td>F15255_HEKLA-SOCKET-C</td>
</tr>
</tbody>
</table>

#### CREE

<table>
<thead>
<tr>
<th>LED</th>
<th>FWHM / FWTM</th>
<th>Efficiency</th>
<th>Peak intensity</th>
<th>LEDs/each optic</th>
<th>Light colour</th>
<th>Required components</th>
</tr>
</thead>
<tbody>
<tr>
<td>CXA/B 15xx</td>
<td>55.0° / 79.0°</td>
<td>91 %</td>
<td>1.1 cd/lm</td>
<td>1</td>
<td>White</td>
<td>F15256_HEKLA-SOCKET-D</td>
</tr>
</tbody>
</table>

#### LUMILEDS

<table>
<thead>
<tr>
<th>LED</th>
<th>FWHM / FWTM</th>
<th>Efficiency</th>
<th>Peak intensity</th>
<th>LEDs/each optic</th>
<th>Light colour</th>
<th>Required components</th>
</tr>
</thead>
<tbody>
<tr>
<td>LUXEON CX Plus CoB L08 (Gen2)</td>
<td>63.0° / 92.0°</td>
<td>85 %</td>
<td>0.8 cd/lm</td>
<td>1</td>
<td>White</td>
<td>Bender Wirth: 637a Hekla</td>
</tr>
</tbody>
</table>

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Published: 18/12/2018

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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

**LUMINES**

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
PHOTOMETRIC DATA (MEASURED):

**LED**

**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

**LED**

**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
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
### 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
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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