CARMEN-W-C-WHT

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

TECHNICAL SPECIFICATIONS:

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>Ø 69.5 mm</td>
</tr>
<tr>
<td>Height</td>
<td>41.5 mm</td>
</tr>
<tr>
<td>Fastening</td>
<td>socket</td>
</tr>
<tr>
<td>ROHS compliant</td>
<td>yes</td>
</tr>
</tbody>
</table>

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

LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.
PHOTOMETRIC DATA (MEASURED):

**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

**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

**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**

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
PHOTOMETRIC DATA (MEASURED):

**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**: 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
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

Last update: 14/01/2020
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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

**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

**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

**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):

**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

**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
  \hspace{1cm} 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

Last update: 14/01/2020
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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
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:

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