

PRODUCT DATASHEET CP16107_CARMEN-50-S-C

CARMEN-50-S-C

~24° spot beam. Assembly with holder C compatible with LEDiL HEKLA.

SPECIFICATION:

Dimensions	Ø 50.0 mm
Height	25.5 mm
Fastening	socket
ROHS compliant	yes 🕕



MATERIALS:

Component	Type	Material	Colour	Finish
CARMEN-50-S	Single lens	PMMA	clear	
CARMEN-50-HLD-C	Holder	PC	black	

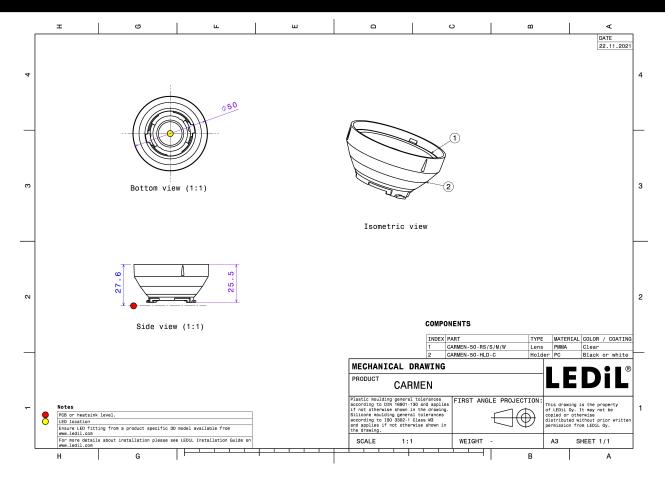
ORDERING INFORMATION:

» Box size: 476 x 273 x 292 mm

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CP16107_CARMEN-50-S-C	Single lens	308	112	28	6.9



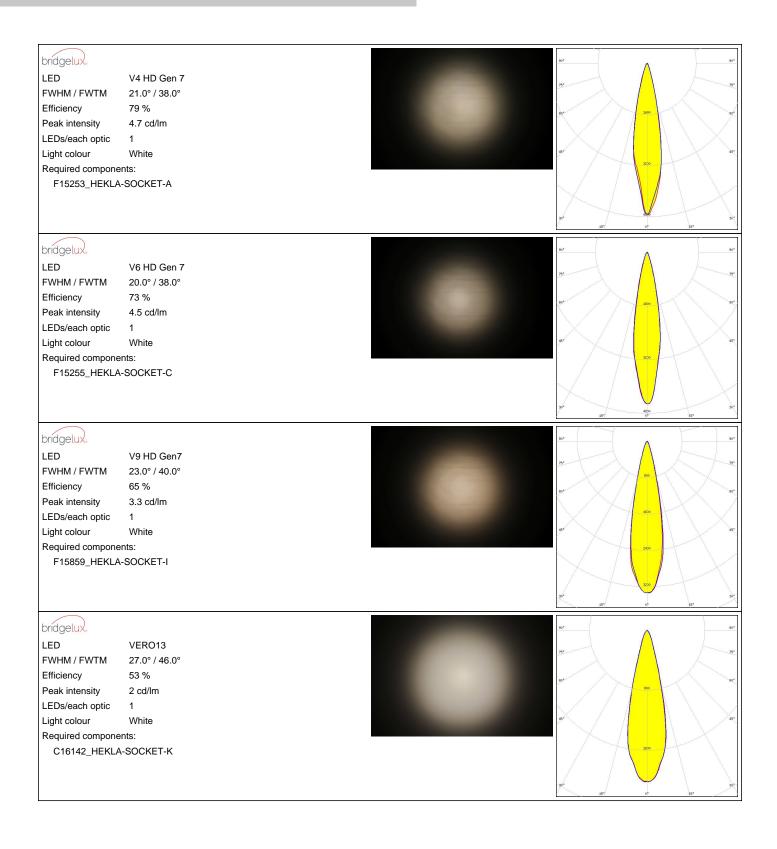
PRODUCT DATASHEET CP16107_CARMEN-50-S-C



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

2/15

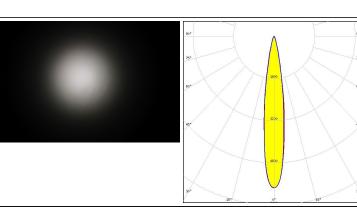






bridgelux LED Vesta TW 6mm DP $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 15.0° / 31.0° Efficiency 63 % Peak intensity 5.7 cd/lm LEDs/each optic Light colour White Required components: C16142_HEKLA-SOCKET-K

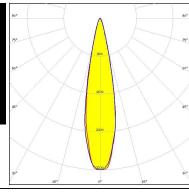
Bender Wirth: 504 Typ L8



bridgelux.

LED Vesta TW 9mm (9W) DP

FWHM / FWTM 22.0° / 37.0° Efficiency 55 % Peak intensity 3.2 cd/lm LEDs/each optic 1 White Light colour Required components: C16142_HEKLA-SOCKET-K

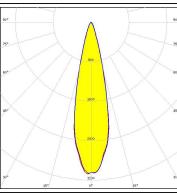


CITIZEN

Bender Wirth: 489 Typ L8

LED CLL02x/CLU02x (LES10)

 $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 24.0° / 42.0° Efficiency 66 % Peak intensity 3.1 cd/lm LEDs/each optic Light colour White Required components: F15255_HEKLA-SOCKET-C

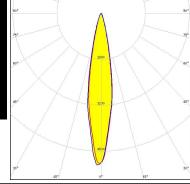


CITIZEN

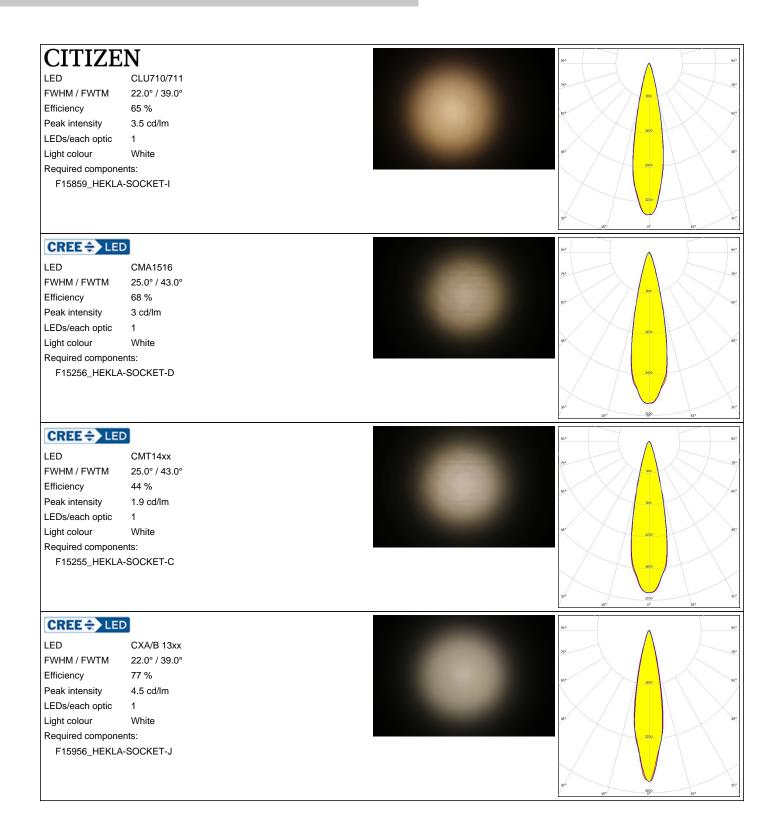
CLU700/701/702/703

FWHM / FWTM 19.0° / 35.0° Efficiency 73 % Peak intensity 5.3 cd/lm LEDs/each optic White Light colour Required components: F15255_HEKLA-SOCKET-C

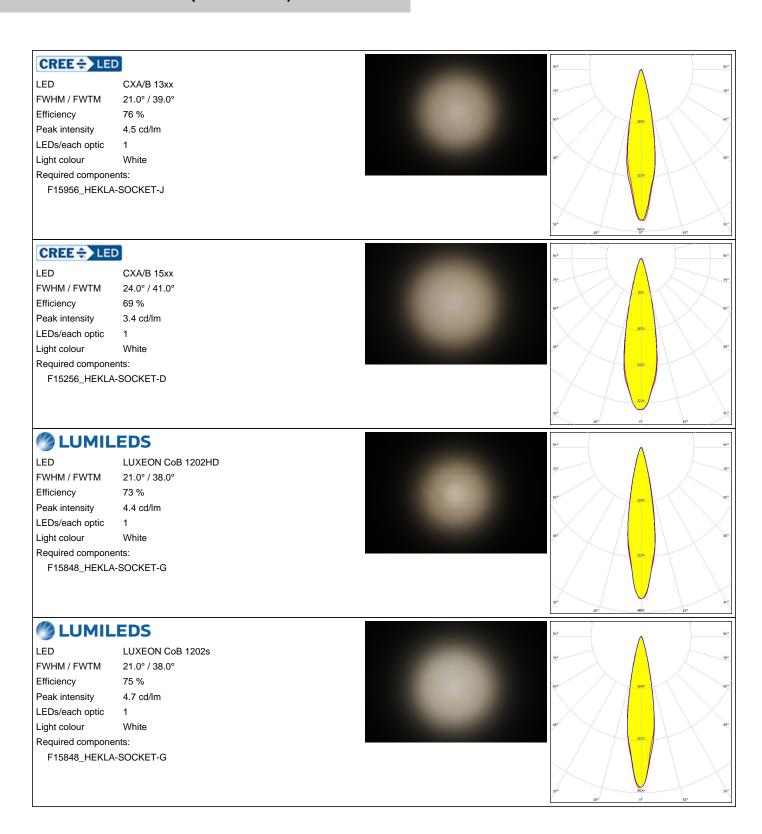




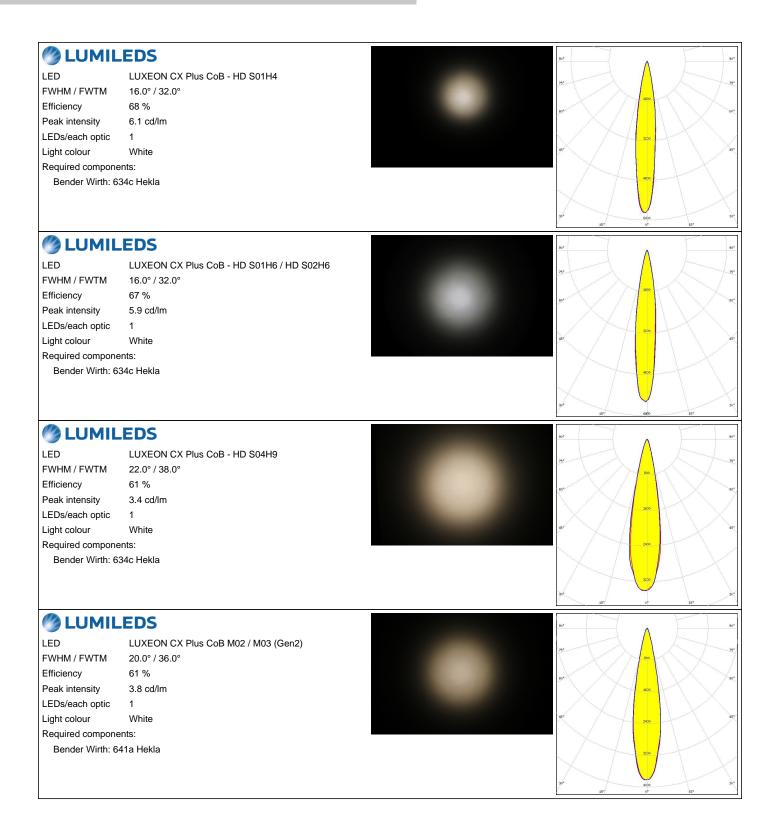






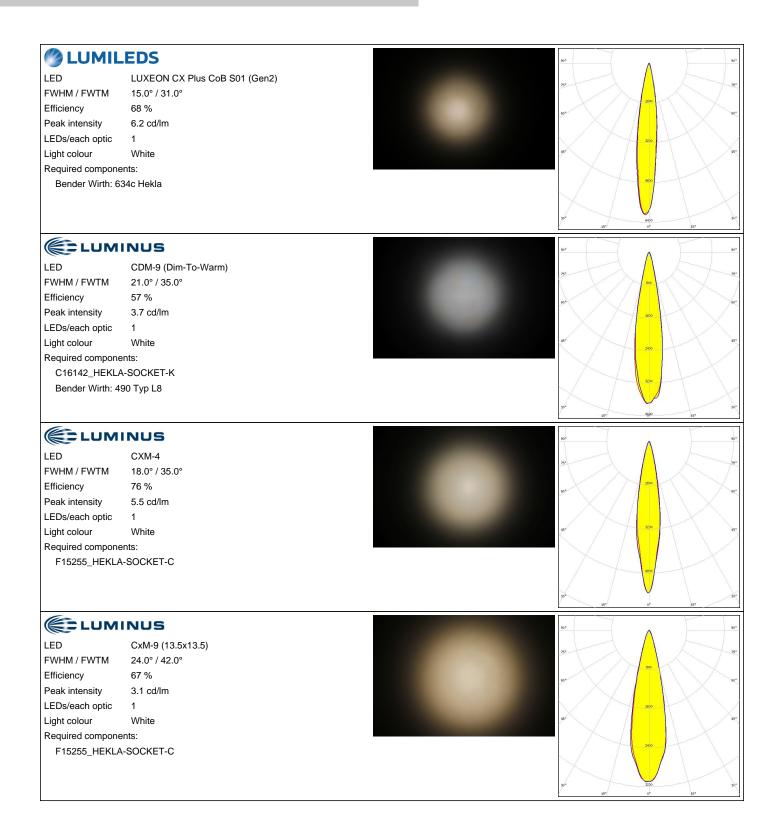


PRODUCT DATASHEET CP16107_CARMEN-50-S-C



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8/15







LED COB S-Type (LES 7)

FWHM / FWTM 22.0° / 39.0°

Efficiency 73 %

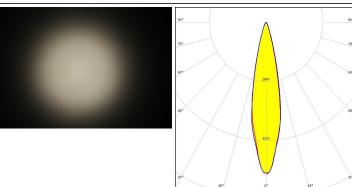
Peak intensity 4.1 cd/lm

LEDs/each optic 1

Light colour White

Required components:

F15848_HEKLA-SOCKET-G



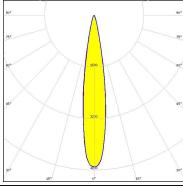
WNICHIA

LED NJCWL024Z-V1MT: COB L-Type Tunable White

FWHM / FWTM 17.0° / 31.0°
Efficiency 56 %
Peak intensity 4.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:

C16142_HEKLA-SOCKET-K Bender Wirth: 497 Typ L8





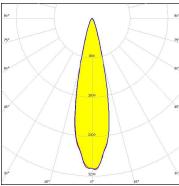
PHILIPS

LED Fortimo SLM L09 CoB

FWHM / FWTM 24.0° / 41.0°
Efficiency 65 %
Peak intensity 3.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:

F15858_HEKLA-SOCKET-H



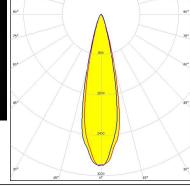


SAMSUNG

LED LC003D / LC006D / LC009D / LC013D

FWHM / FWTM 25.0° / 43.0°
Efficiency 67 %
Peak intensity 3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C





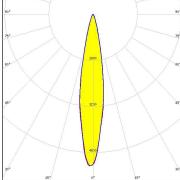


SAMSUNG

LED LC010C G2
FWHM / FWTM 19.0° / 35.0°
Efficiency 74 %
Peak intensity 5.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:

F15255_HEKLA-SOCKET-C



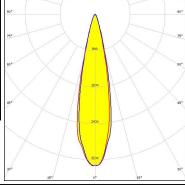


SAMSUNG

LED LC020C G2
FWHM / FWTM 23.0° / 40.0°
Efficiency 65 %
Peak intensity 3.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:

F15859_HEKLA-SOCKET-I



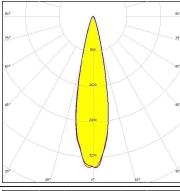


TRIDONIC

LED SLE G7 LES09
FWHM / FWTM 23.0° / 41.0°
Efficiency 69 %
Peak intensity 3.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:

F15255_HEKLA-SOCKET-C





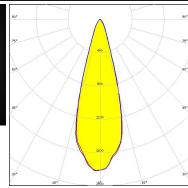
TRIDONIC

LED SLE G7 LES13
FWHM / FWTM 31.0° / 51.0°
Efficiency 58 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour White

F15859_HEKLA-SOCKET-I

Required components:



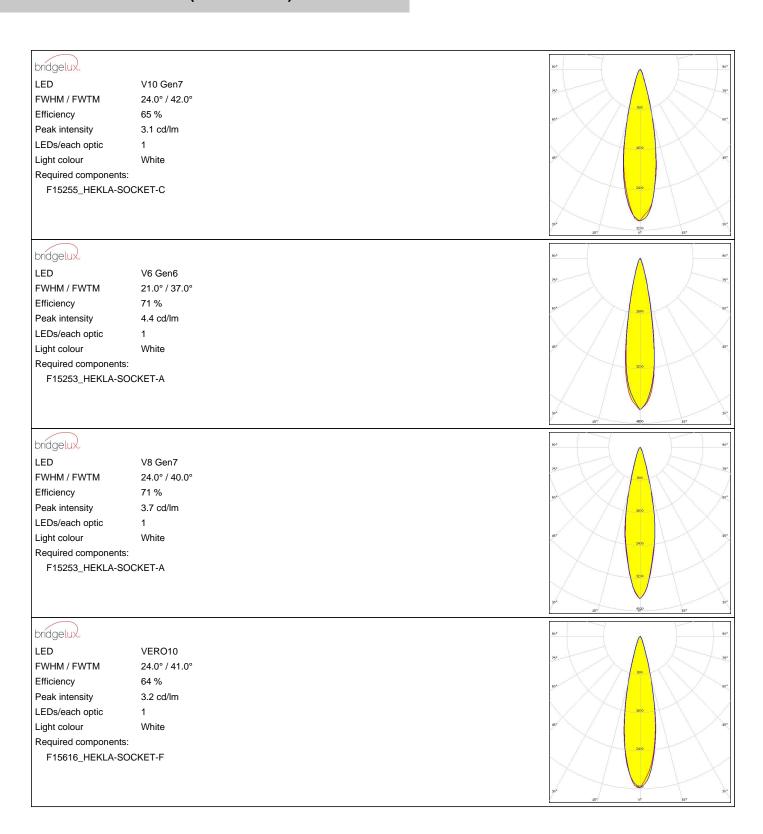




XICATO XOB 6 mm $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 19.0° / 36.0° Efficiency 73 % Peak intensity 4.9 cd/lm LEDs/each optic Light colour White Required components: F15255_HEKLA-SOCKET-C **XICATO** LED XOB 9.8 mm FWHM / FWTM 24.0° / 42.0° Efficiency 67 % Peak intensity 3.2 cd/lm LEDs/each optic 1 White Light colour Required components: F15255_HEKLA-SOCKET-C



OPTICAL RESULTS (SIMULATED):





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CREE - LED

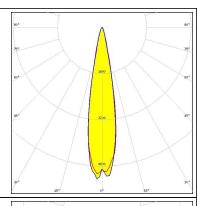
LED CHA0304 FWHM / FWTM 20.0° / 33.0°

Efficiency 72 %

Peak intensity 5.4 cd/lm LEDs/each optic 1

Light colour White

Required components: F17435_HEKLA-G2-C



CREE - LED

LED CHA0612

FWHM / FWTM 16.0° / 31.0° Efficiency 66 %

Peak intensity 5.9 cd/lm LEDs/each optic 1

Light colour White Required components: F17435_HEKLA-G2-C

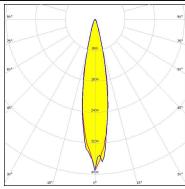
CREE - LED

LED CHA0825 FWHM / FWTM 20.0° / 36.0°

Efficiency 60 %
Peak intensity 3.9 cd/lm

LEDs/each optic 1
Light colour White

Required components: F17438_HEKLA-G2-I



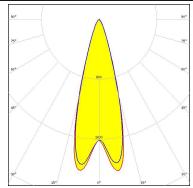
WNICHIA

LED COB S-Type (LES 6)

FWHM / FWTM 30.0° / 50.0°
Efficiency 62 %
Peak intensity 2.1 cd/lm

LEDs/each optic 1
Light colour White
Required components:

F15848_HEKLA-SOCKET-G





OPTICAL RESULTS (SIMULATED):

White

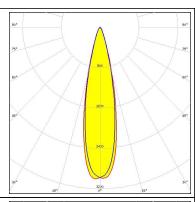
SAMSUNG

LED LH231B FWHM / FWTM 23.0° / 42.0° Efficiency 63 %

Efficiency 63 %
Peak intensity 3 cd/lm
LEDs/each optic 7

Light colour
Required components:

F15255_HEKLA-SOCKET-C



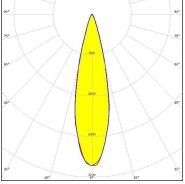
XICATO

LED XTM - 9mm LES FWHM / FWTM 25.0° / 43.0°

Efficiency 67 %
Peak intensity 3 cd/lm
LEDs/each optic 1
Light colour White

Required components:

C15743_XTM-ADAPTER-50-B





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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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