

CARMEN-90-RS

~10° beam

Colour

TECHNICAL SPECIFICATIONS:

Dimensions Ø 89.8 mm
Height 39.3 mm
Fastening socket

Box size 480 x 280 x 300 mm

clear

Box weight 7 kg

Quantity in Box 70 pcs

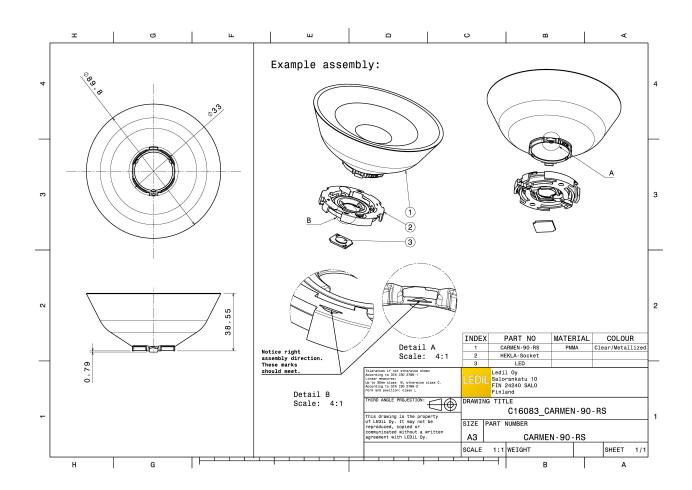
ROHS compliant yes 1



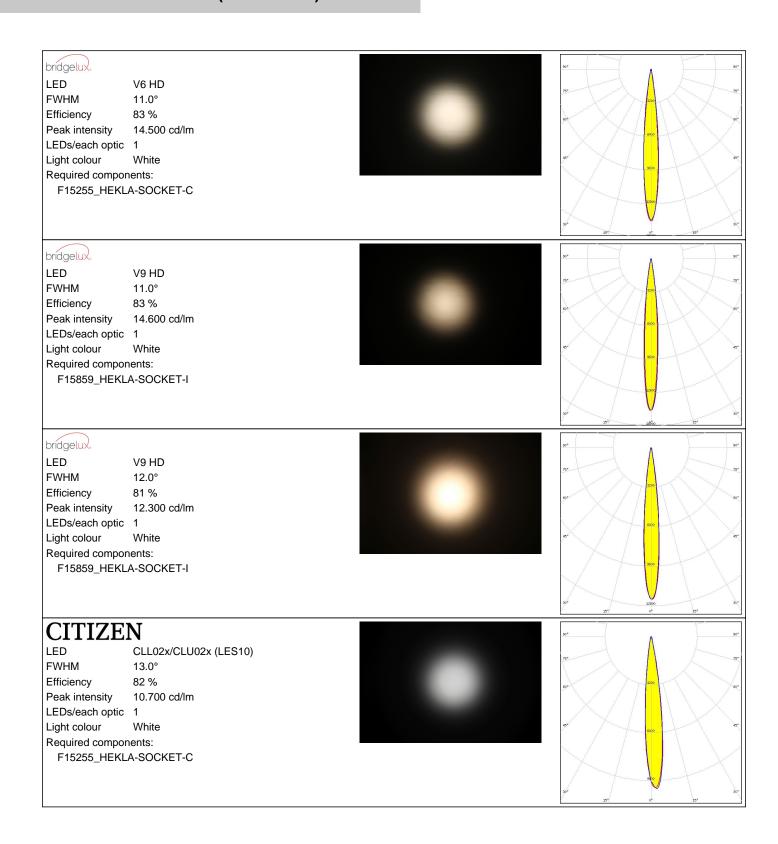
MATERIAL SPECIFICATIONS:

ComponentTypeMaterialColourCARMEN-90-RSSingle lensPMMAclear





PHOTOMETRIC DATA (MEASURED):



PHOTOMETRIC DATA (MEASURED):

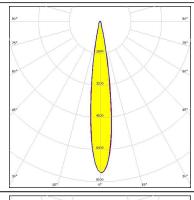
CITIZEN

LED CLL03x/CLU03x

FWHM 15.0°
Efficiency 82 %
Peak intensity 7.600 cd/lm
LEDs/each optic 1

Light colour White
Required components:
F15859_HEKLA-SOCKET-I





CITIZEN

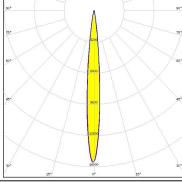
 LED
 CLU700/701

 FWHM
 10.0°

 Efficiency
 81 %

Peak intensity 15.600 cd/lm

LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



CITIZEN

 LED
 CLU710/711

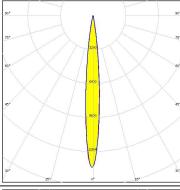
 FWHM
 11.0°

 Efficiency
 82 %

 Peak intensity
 14.600 cd/lm

LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I





CITIZEN

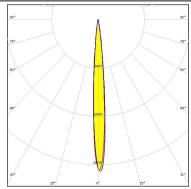
LED CLU7A2 (LES 4.2mm)

FWHM 9.0° Efficiency 82 % Peak intensity 20.300 cd/lm

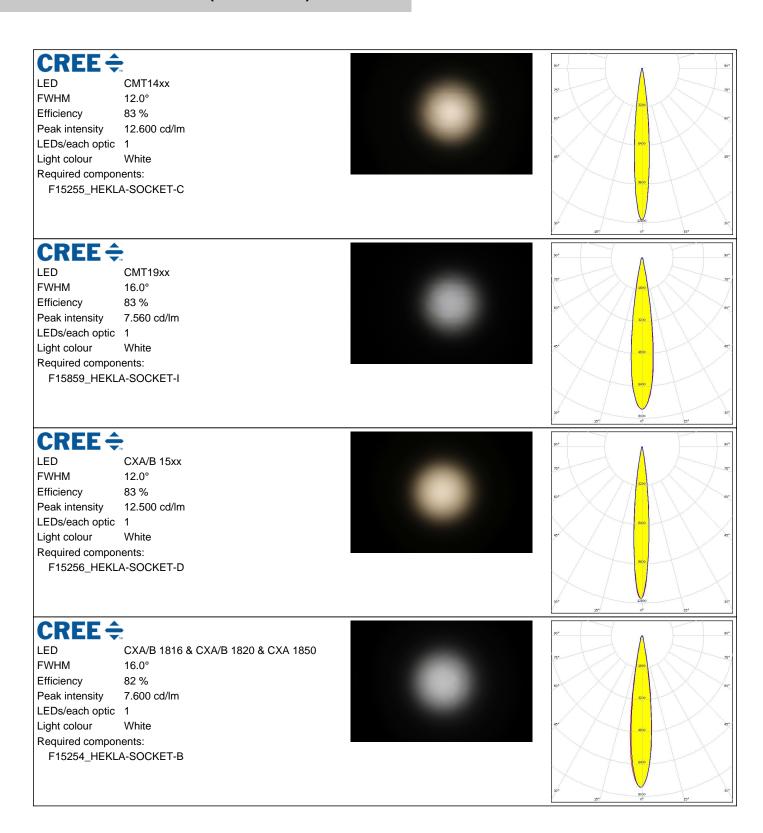
LEDs/each optic 1
Light colour White
Required components:

F15255_HEKLA-SOCKET-C





PHOTOMETRIC DATA (MEASURED):



PHOTOMETRIC DATA (MEASURED):



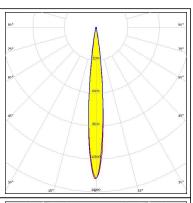
LED LUXEON CoB 1202HD

FWHM 11.0°
Efficiency 84 %
Peak intensity 14.800 cd/lm
LEDs/each optic 1

Light colour White Required components:

F15848_HEKLA-SOCKET-G





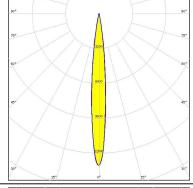
MUMILEDS

LED LUXEON CoB 1204HD

FWHM 11.0°
Efficiency 84 %
Peak intensity 14.000 cd/lm

LEDs/each optic 1
Light colour White
Required components:
F15858_HEKLA-SOCKET-H





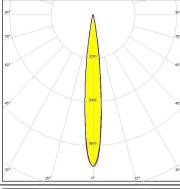
MUMILEDS

LED LUXEON CoB 1205HD

FWHM 13.0° Efficiency 83 % Peak intensity 11.150 cd/lm

LEDs/each optic 1 Light colour White Required components: F15858_HEKLA-SOCKET-H





SAMSUNG

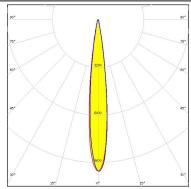
LED COB D Series LES 9.8 mm

FWHM 13.0° Efficiency 83 % Peak intensity 10.200 cd/lm

LEDs/each optic 1
Light colour White
Required components:

F15255_HEKLA-SOCKET-C





PHOTOMETRIC DATA (MEASURED):

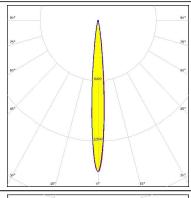
SAMSUNG

LED LC010C G2 FWHM 10.0° Efficiency 81 %

Peak intensity 16.000 cd/lm

LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C



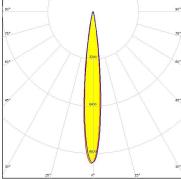


SAMSUNG

LED LC020C G2 FWHM 13.0° Efficiency 80 % Peak intensity 10.300 cd/lm

LEDs/each optic 1
Light colour White
Required components:
F15859_HEKLA-SOCKET-I





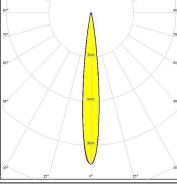
TRIDONIC

LED SLE G7 LES09

FWHM 13.0°
Efficiency 81 %
Peak intensity 11.000 cd/lm

LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C





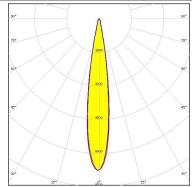
TRIDONIC

LED SLE G7 LES13

FWHM 16.0° Efficiency 81 % Peak intensity 7.200 cd/lm

LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I





PHOTOMETRIC DATA (MEASURED):

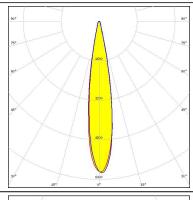
TRIDONIC

LED SLE G7 LES15

FWHM 18.0°
Efficiency 82 %
Peak intensity 6.200 cd/lm
LEDs/each optic 1
Light colour White

Required components: F15859_HEKLA-SOCKET-I





XICATO

 LED
 XOB 6 mm

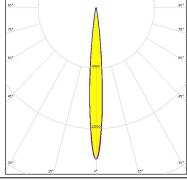
 FWHM
 10.0°

 Efficiency
 80 %

 Peak intensity
 16.042 cd/lm

LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



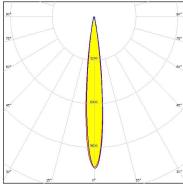


XICATO

LED XOB 9.8 mm
FWHM 13.0°
Efficiency 81 %
Peak intensity 11.137 cd/lm

LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C





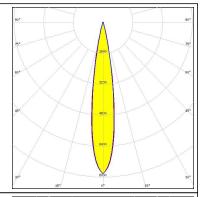
PHOTOMETRIC DATA (SIMULATED):

CITIZEN

LED CLL03x/CLU03x

FWHM 17.0° Efficiency 83 % Peak intensity 7.600 cd/lm

LEDs/each optic 1
Light colour White
Required components:
F15859_HEKLA-SOCKET-I



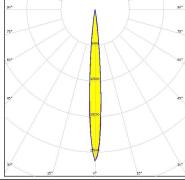
CREE 🕏

LED CXA/B 13xx

FWHM 9.0° Efficiency 86 %

Peak intensity 27.300 cd/lm

LEDs/each optic 1
Light colour White
Required components:
F15956_HEKLA-SOCKET-J

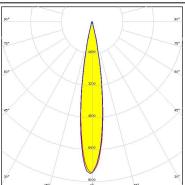


UMILEDS

LED LUXEON CoB 1208

FWHM 17.0° Efficiency 85 % Peak intensity 7.590 cd/lm

LEDs/each optic 1
Light colour White
Required components:
C16142_HEKLA-SOCKET-K





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.

LEDiL Oy assumes neither warranty, nor guarantee nor any other liability of any kind for the contents and correctness of the provided data. The provided data has been generated with highest diligence but the provided data may in reality not represent the complete possible variation range of all intrinsic parameters. Therefore, in certain cases a deviation from the provided data could occur.

LEDiL Oy reserves the right to undertake technical changes of its products without further notification which could lead to changes in the provided data. LEDiL Oy assumes no liability of any kind for the possible deviation from any provided data or any other damage resulting from the usage of the provided data.

The user agrees to this disclaimer and user agreement with the download or usage of the provided files.

LEDIL OV

Joensuunkatu 13 FI-24240 SALO Finland

LEDiL Inc.

228 West Page Street Suite D Sycamore IL 60178 USA

Local sales and technical support

www.ledil.com/ where_to_buy

Shipping locations

Salo, Finland Hong Kong, China

Distribution Partners

www.ledil.com/ where_to_buy

Last update: 23/08/2019 Subject to change without prior notice Published: 18/12/2018 10/10