

CARMEN-RS-C

~10° spot beam. Assembly with holder C compatible with LEDiL HEKLA.

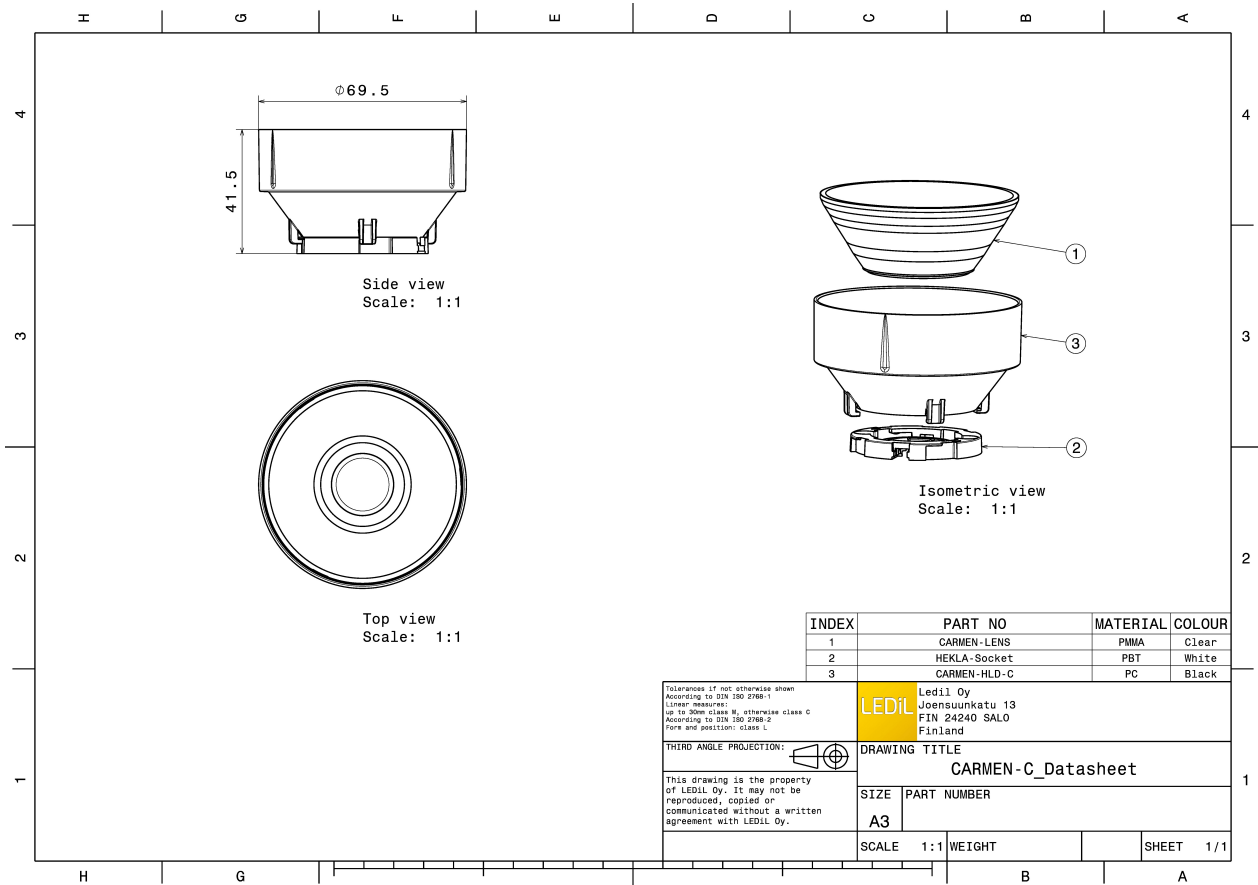
TECHNICAL SPECIFICATIONS:

Dimensions	Ø 69.5 mm
Height	41.5 mm
Fastening	socket
Colour	black
Box size	480 x 280 x 300 mm
Box weight	6.2 kg
Quantity in Box	150 pcs
ROHS compliant	yes ⓘ



MATERIAL SPECIFICATIONS:

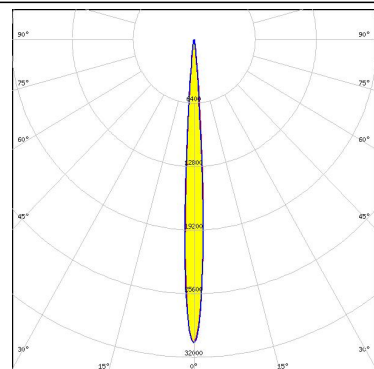
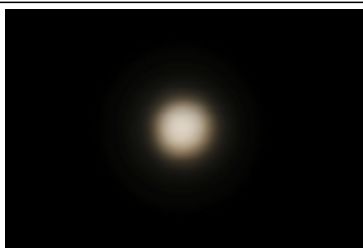
Component	Type	Material	Colour
CARMEN-RS	Single lens	PMMA	
CARMEN-HLD-C	Holder	PC	



PHOTOMETRIC DATA (MEASURED):

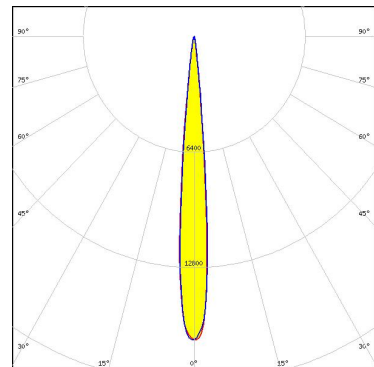
bridgelux

LED V4 HD
FWHM 7.0°
Efficiency 68 %
Peak intensity 31.000 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15253_HEKLA-SOCKET-A



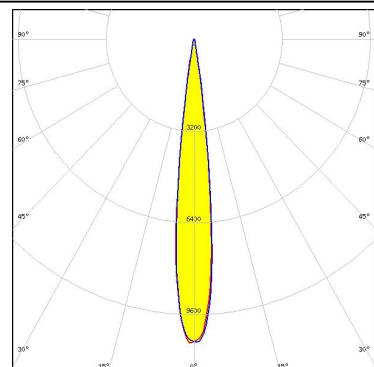
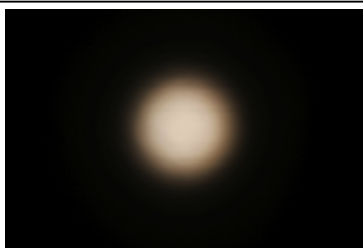
bridgelux

LED V6 HD
FWHM 9.6°
Efficiency 65 %
Peak intensity 16.900 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



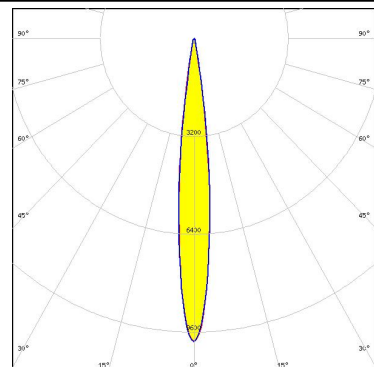
bridgelux

LED V9 HD
FWHM 13.0°
Efficiency 63 %
Peak intensity 10.600 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15859_HEKLA-SOCKET-I



bridgelux

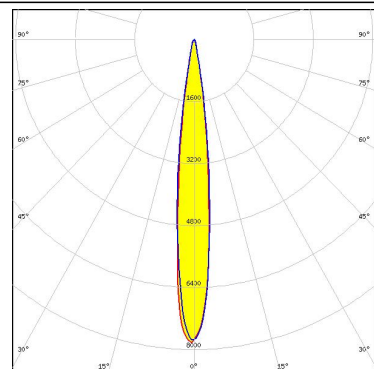
LED VERO10
FWHM 12.0°
Efficiency 61 %
Peak intensity 9.900 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15616_HEKLA-SOCKET-F



PHOTOMETRIC DATA (MEASURED):

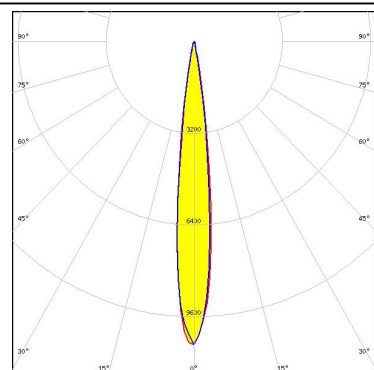


LED Vesta TW 9mm (9W) DP
 FWHM 12.0°
 Efficiency 56 %
 Peak intensity 7.830 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 489 Typ L8



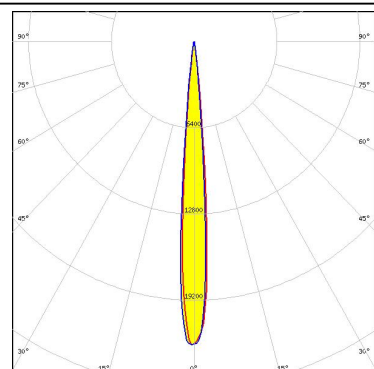
CITIZEN

LED CLL02x/CLU02x (LES10)
 FWHM 13.0°
 Efficiency 59 %
 Peak intensity 8.600 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



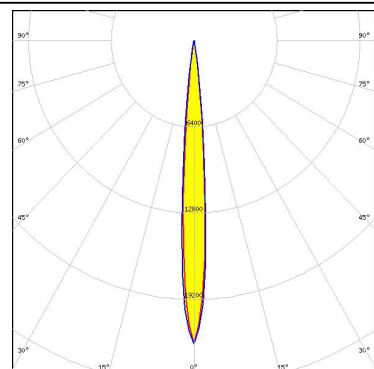
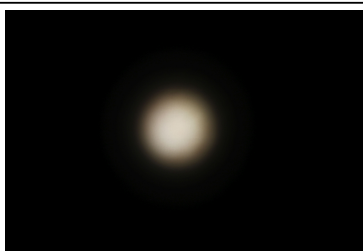
CITIZEN

LED CLU700/701
 FWHM 9.0°
 Efficiency 69 %
 Peak intensity 22.600 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



CITIZEN

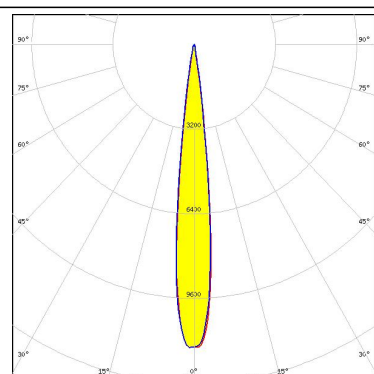
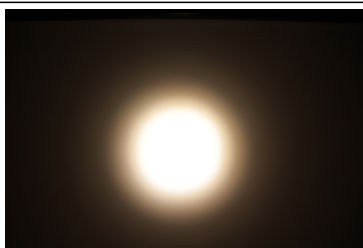
LED CLU700/701
 FWHM 8.0°
 Efficiency 62 %
 Peak intensity 20.200 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



PHOTOMETRIC DATA (MEASURED):

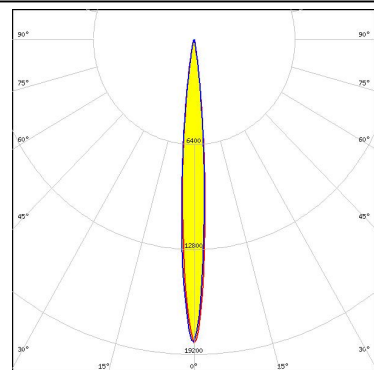
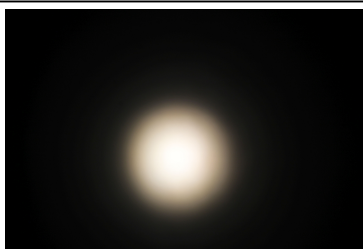
CITIZEN

LED CLU710/711
FWHM 12.0°
Efficiency 64 %
Peak intensity 11.500 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15859_HEKLA-SOCKET-I



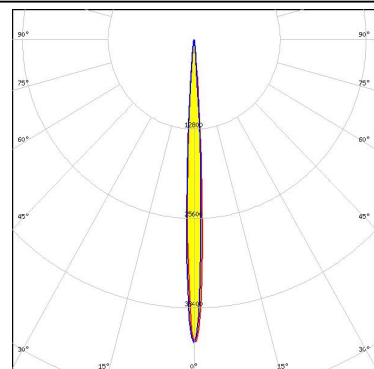
CITIZEN

LED CLU7A2 (LES 4.2mm)
FWHM 6.0°
Efficiency 65 %
Peak intensity 34.700 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



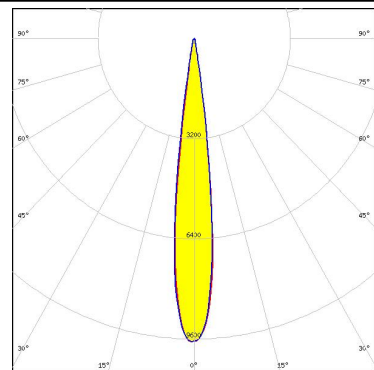
CITIZEN

LED CLU7B2
FWHM 6.0°
Efficiency 66 %
Peak intensity 43.392 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



CREE

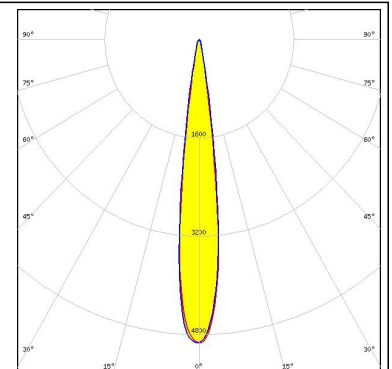
LED CMA1516
FWHM 13.0°
Efficiency 63 %
Peak intensity 9.700 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15256_HEKLA-SOCKET-D



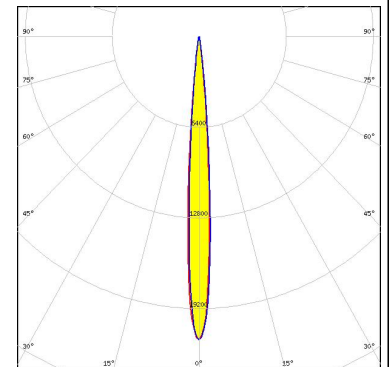
PHOTOMETRIC DATA (MEASURED):



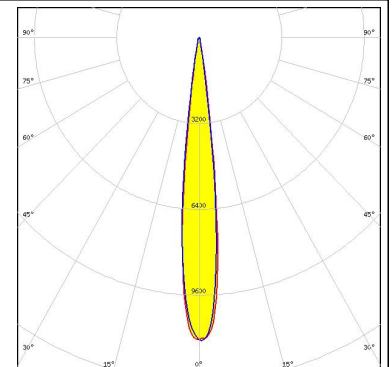
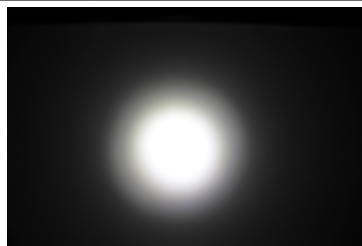
LED CMT14xx
FWHM 14.0°
Efficiency 40 %
Peak intensity 4.950 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



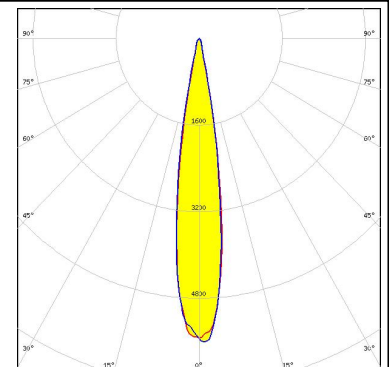
LED CXA/B 13xx
FWHM 8.0°
Efficiency 64 %
Peak intensity 21.400 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15956_HEKLA-SOCKET-J



LED CXA/B 15xx
FWHM 13.0°
Efficiency 65 %
Peak intensity 11.300 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15256_HEKLA-SOCKET-D



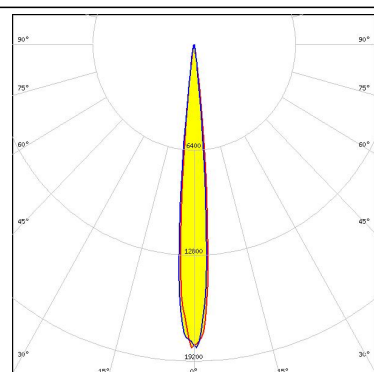
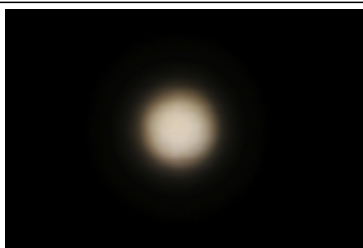
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM 17.0°
Efficiency 59 %
Peak intensity 5.600 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15256_HEKLA-SOCKET-D



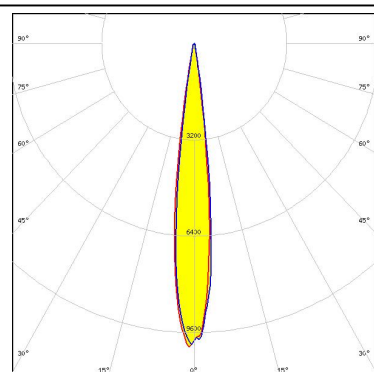
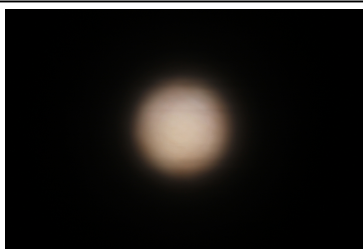
PHOTOMETRIC DATA (MEASURED):



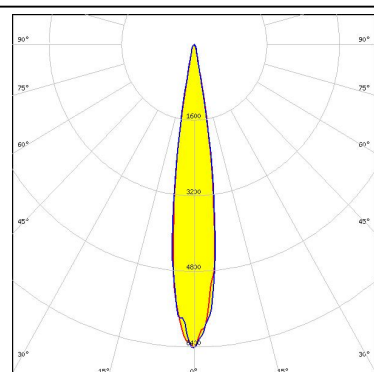
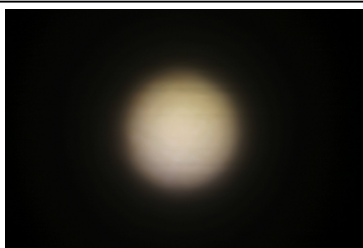
LED LUXEON CoB 1202HD
 FWHM 9.7°
 Efficiency 66 %
 Peak intensity 18.500 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15848_HEKLA-SOCKET-G



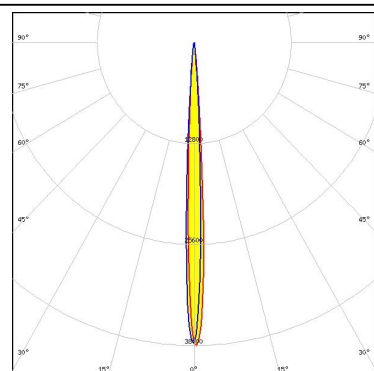
LED LUXEON CoB 1204HD
 FWHM 13.0°
 Efficiency 63 %
 Peak intensity 10.000 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15858_HEKLA-SOCKET-H



LED LUXEON CoB 1205HD
 FWHM 15.0°
 Efficiency 59 %
 Peak intensity 6.400 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15858_HEKLA-SOCKET-H



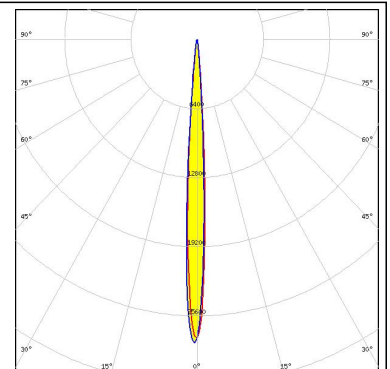
LED CXM-3
 FWHM 6.0°
 Efficiency 66 %
 Peak intensity 38.452 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



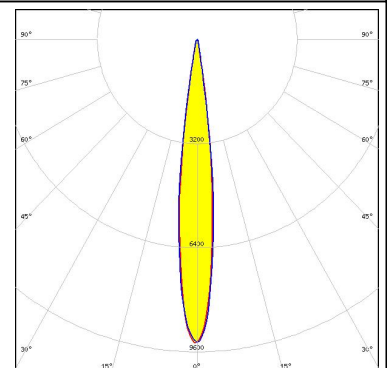
PHOTOMETRIC DATA (MEASURED):



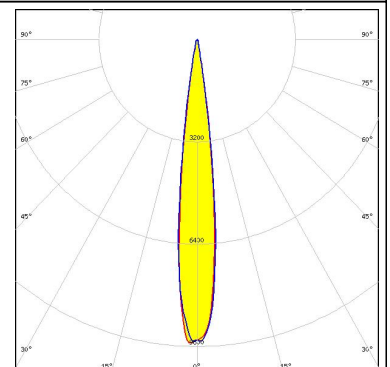
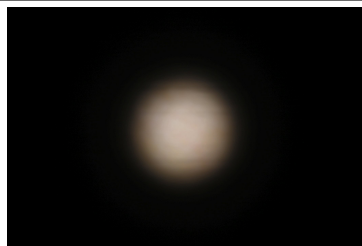
LED CXM-4
FWHM 7.0°
Efficiency 63 %
Peak intensity 28.116 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



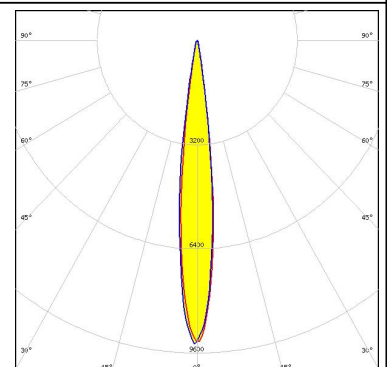
LED CxM-9 (13.5x13.5)
FWHM 13.0°
Efficiency 59 %
Peak intensity 9.300 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



LED Fortimo SLM L09 CoB
FWHM 13.0°
Efficiency 63 %
Peak intensity 9.600 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15858_HEKLA-SOCKET-H



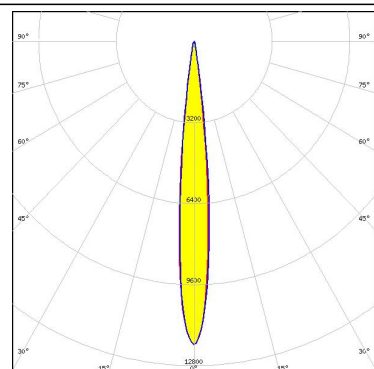
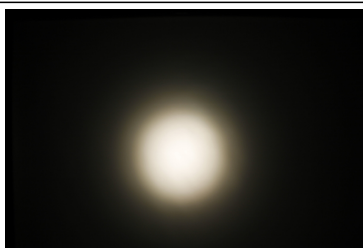
LED COB D Series LES 9.8 mm
FWHM 13.0°
Efficiency 60 %
Peak intensity 9.300 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



PHOTOMETRIC DATA (MEASURED):

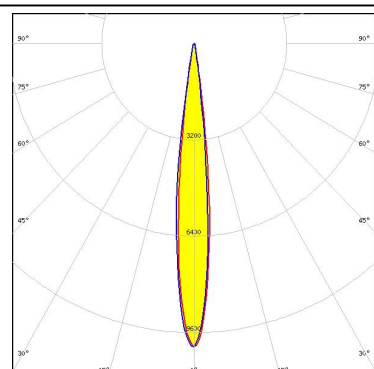
SAMSUNG

LED LC020C
FWHM 11.0°
Efficiency 61 %
Peak intensity 12.000 cd/m
LEDs/each optic 1
Light colour White
Required components:
F15848_HEKLA-SOCKET-G



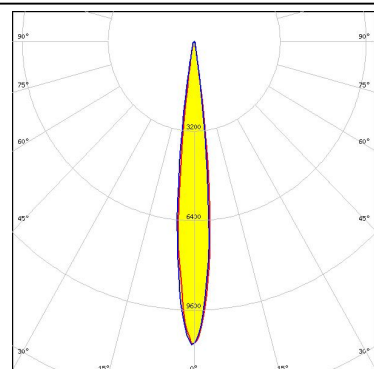
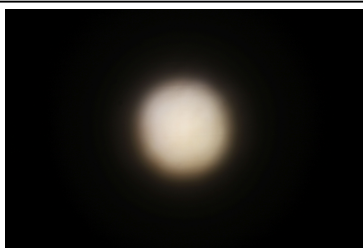
SAMSUNG

LED LC020C G2
FWHM 12.0°
Efficiency 59 %
Peak intensity 10.000 cd/m
LEDs/each optic 1
Light colour White
Required components:
F15859_HEKLA-SOCKET-I



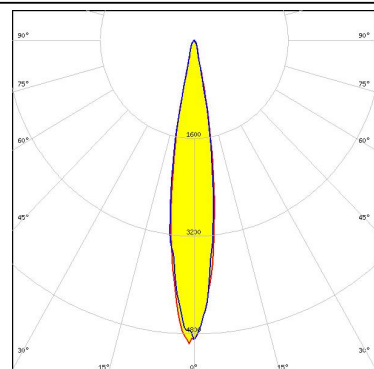
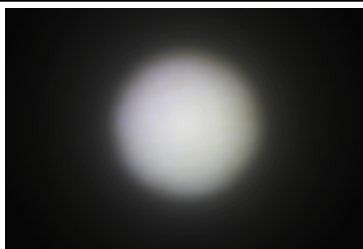
TRIDONIC

LED SLE G7 LES09
FWHM 12.0°
Efficiency 61 %
Peak intensity 10.900 cd/m
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



TRIDONIC

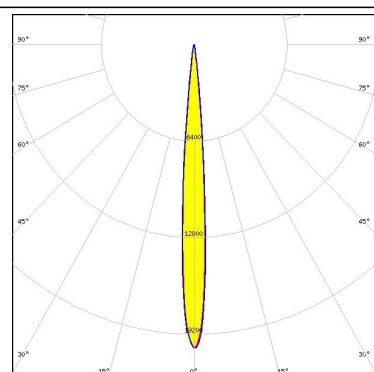
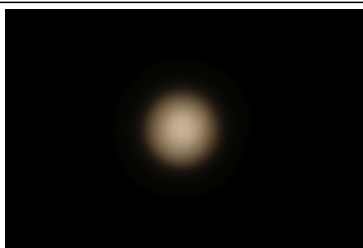
LED SLE G7 LES13
FWHM 17.0°
Efficiency 56 %
Peak intensity 5.000 cd/m
LEDs/each optic 1
Light colour White
Required components:
F15859_HEKLA-SOCKET-I



PHOTOMETRIC DATA (MEASURED):

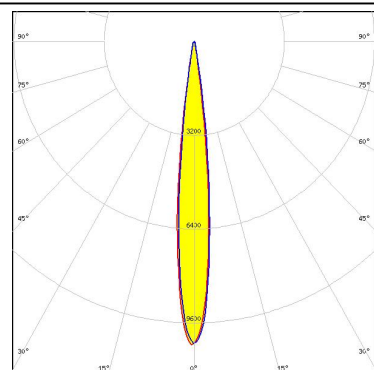
XICATO

LED XOB 6 mm
FWHM 9.0°
Efficiency 62 %
Peak intensity 20.143 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



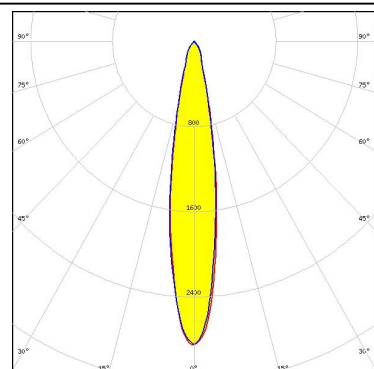
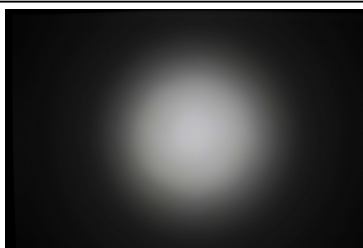
XICATO

LED XOB 9.8 mm
FWHM 12.0°
Efficiency 60 %
Peak intensity 10.353 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



XICATO

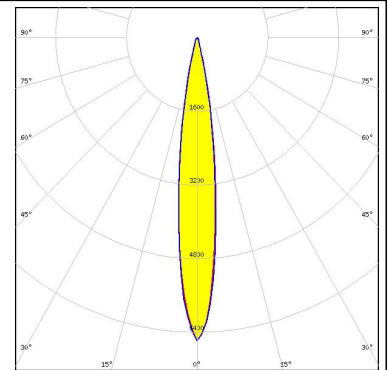
LED XTM - 19mm LES
FWHM 18.0°
Efficiency 50 %
Peak intensity 2.900 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C16058_XTM-ADAPTER-50-C



PHOTOMETRIC DATA (SIMULATED):

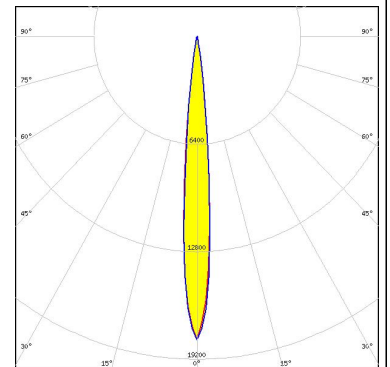
CITIZEN

LED CLU720/721
FWHM 15.0°
Efficiency 61 %
Peak intensity 6.590 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15859_HEKLA-SOCKET-I



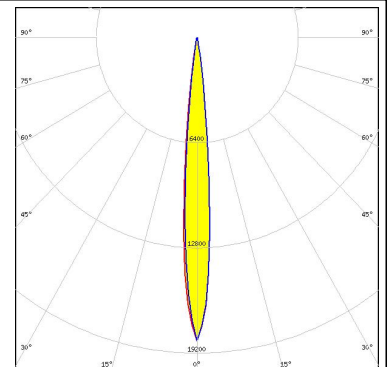
LUMILEDS

LED LUXEON CoB Compact
FWHM 10.0°
Efficiency 71 %
Peak intensity 18.000 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15848_HEKLA-SOCKET-G



LUMINUS

LED CxM-6 (12x13)
FWHM 10.0°
Efficiency 68 %
Peak intensity 18.461 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.

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 Oy

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](http://www.ledil.com/where_to_buy)

Shipping locations

Salo, Finland
Hong Kong, China

Distribution Partners

[www.ledil.com/
where_to_buy](http://www.ledil.com/where_to_buy)