CARMEN-M-C

 ${\sim}35^{\circ}$ medium beam. Assembly with holder C compatible with LEDiL HEKLA.

SPECIFICATION:

Dimensions	Ø 69.5 mm
Height	41.5 mm
Fastening	socket
ROHS compliant	yes 🛈



MATERIALS:

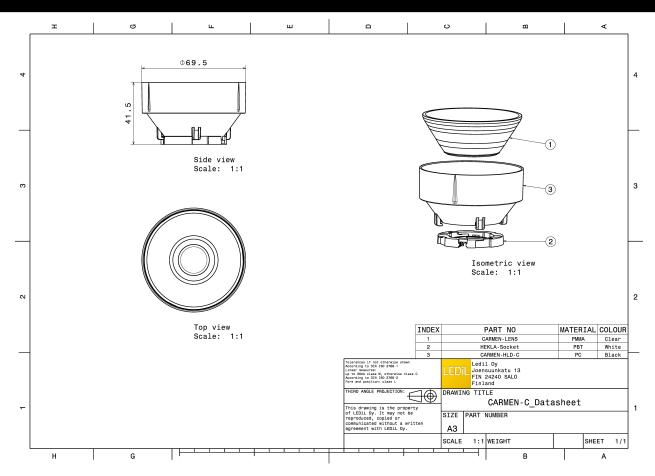
Component	Туре	Material	Colour	Finish
CARMEN-M	Single lens	PMMA	clear	
CARMEN-HI D-C	Holder	PC	black	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CP15775_CARMEN-M-C	Single lens	150	150	15	4.6
» Box size: 476 x 273 x 292 mm					

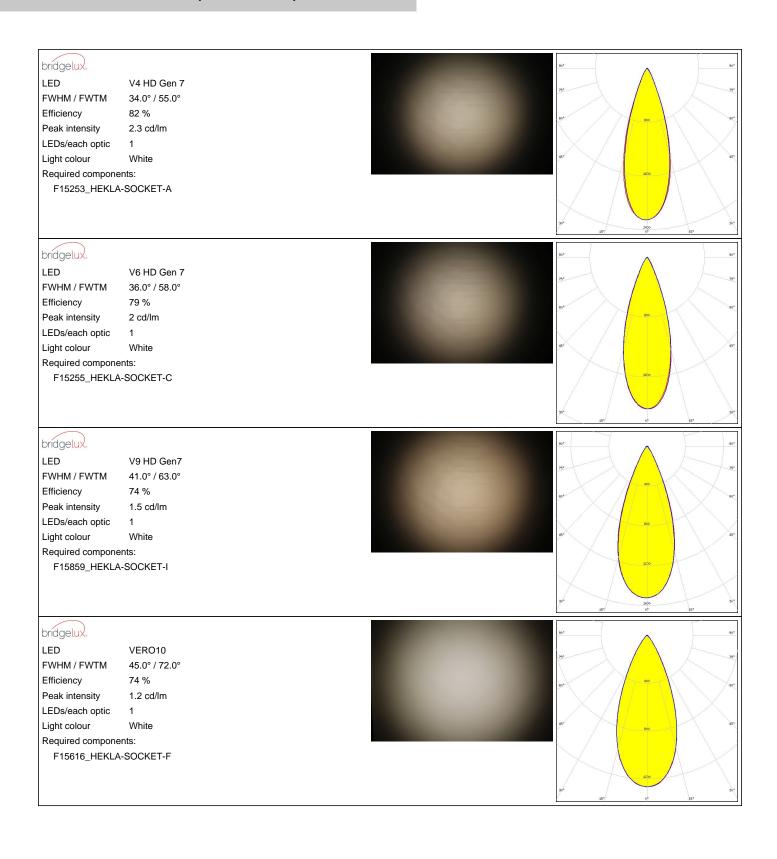


PRODUCT DATASHEET CP15775_CARMEN-M-C

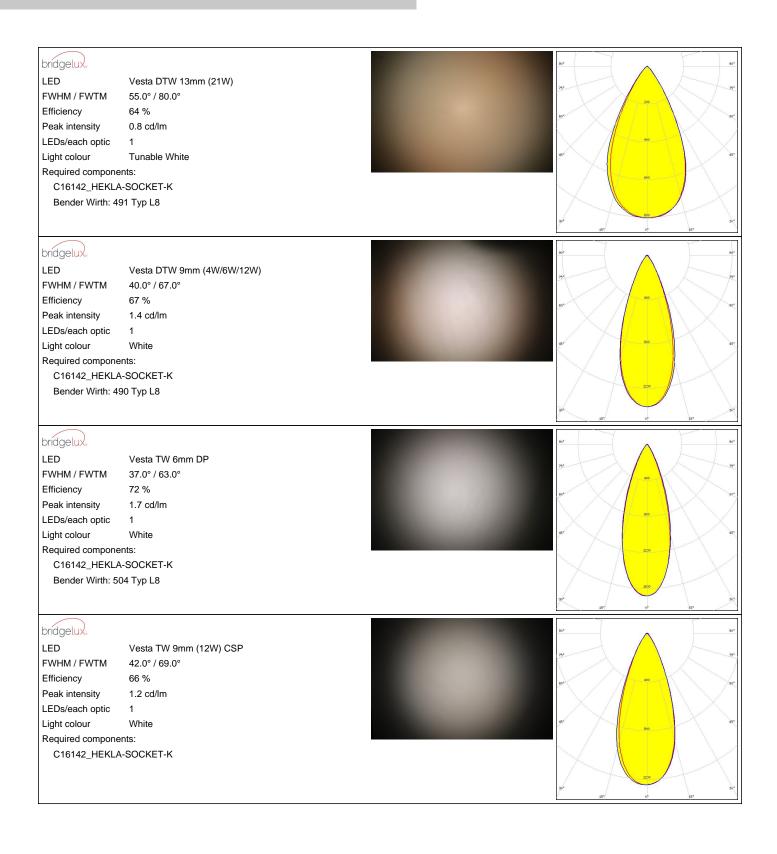


See also our general installation guide: www.ledil.com/installation_guide



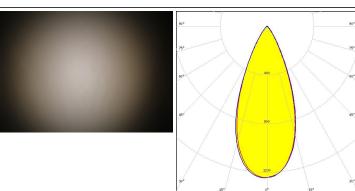










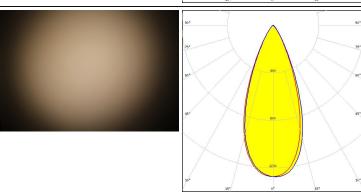


CITIZEN

LED CLC020 Series (Dim-To-Warm)

FWHM / FWTM 42.0° / 68.0°
Efficiency 66 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:

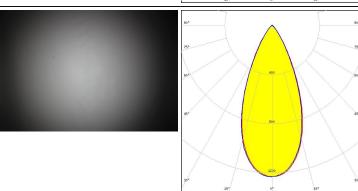
C16142_HEKLA-SOCKET-K



CITIZEN

LED CLL02x/CLU02x (LES10)

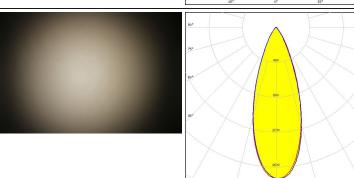
FWHM / FWTM 45.0° / 73.0°
Efficiency 73 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



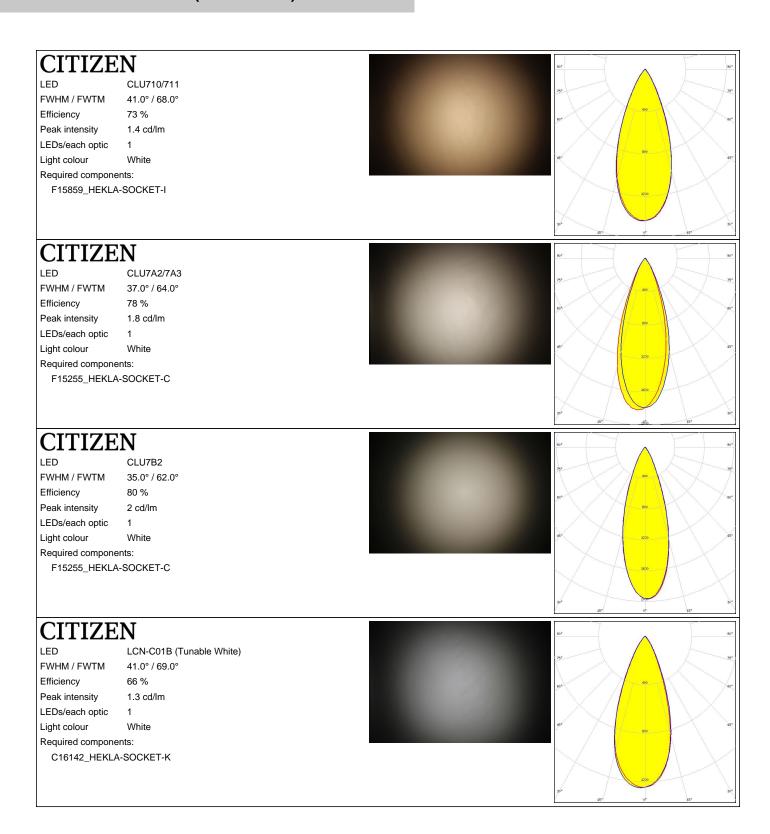
CITIZEN

LED CLU700/701/702/703

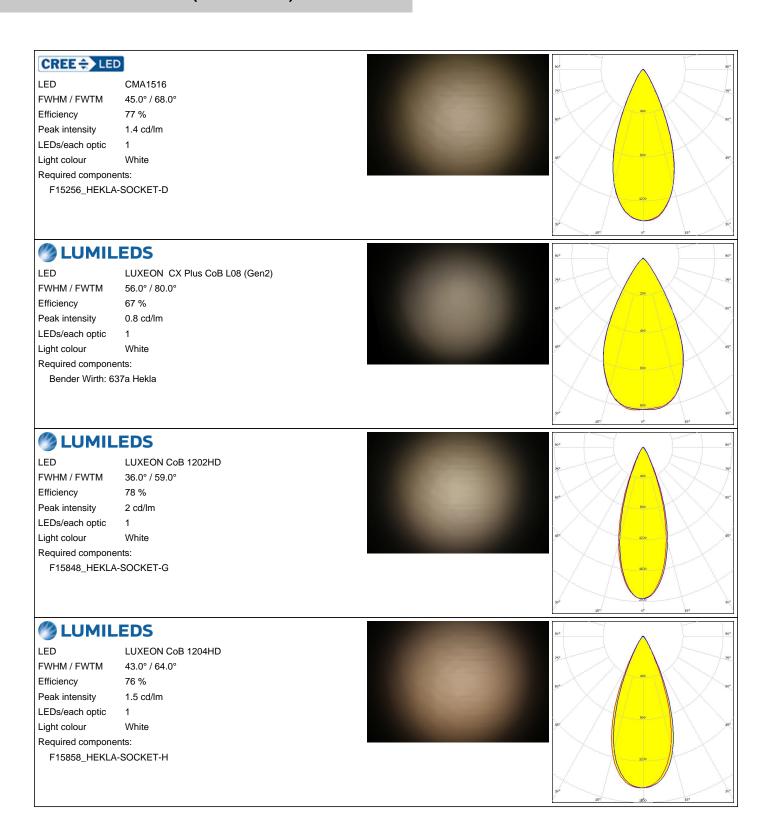
FWHM / FWTM 37.0° / 66.0°
Efficiency 76 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



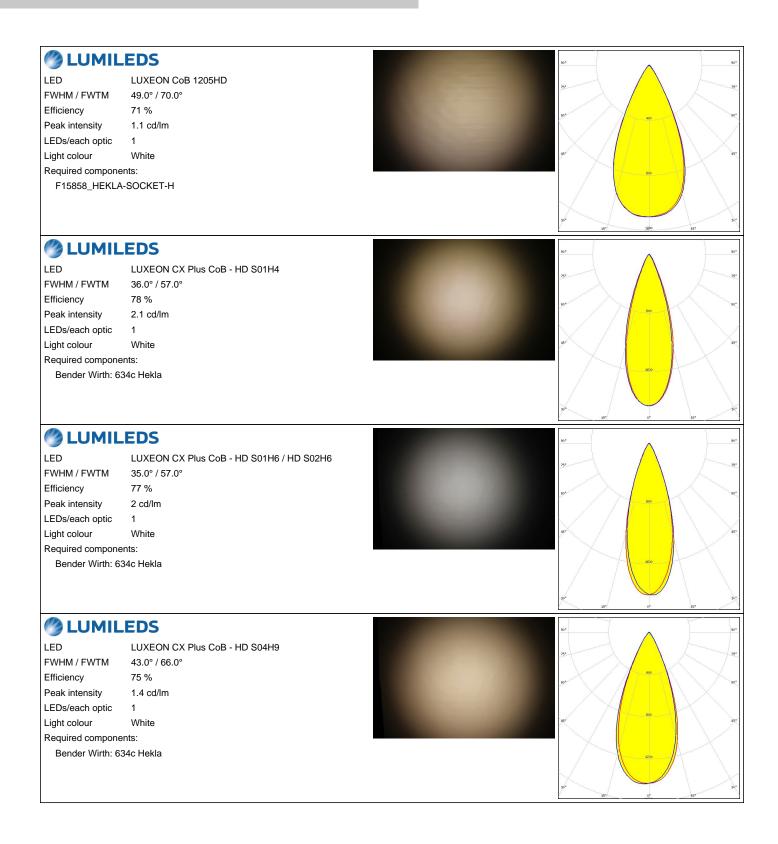




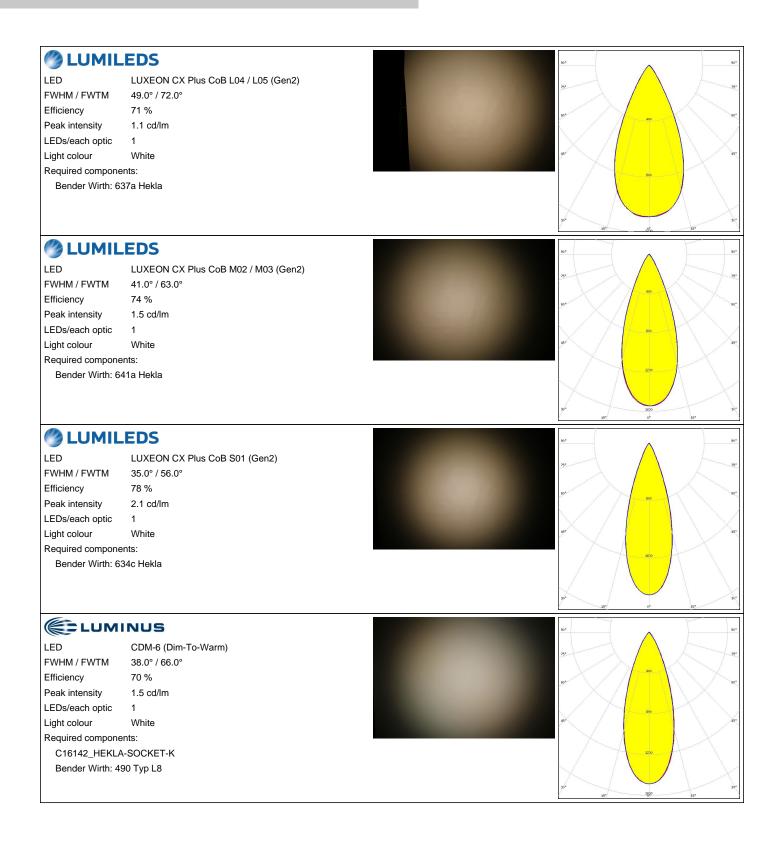




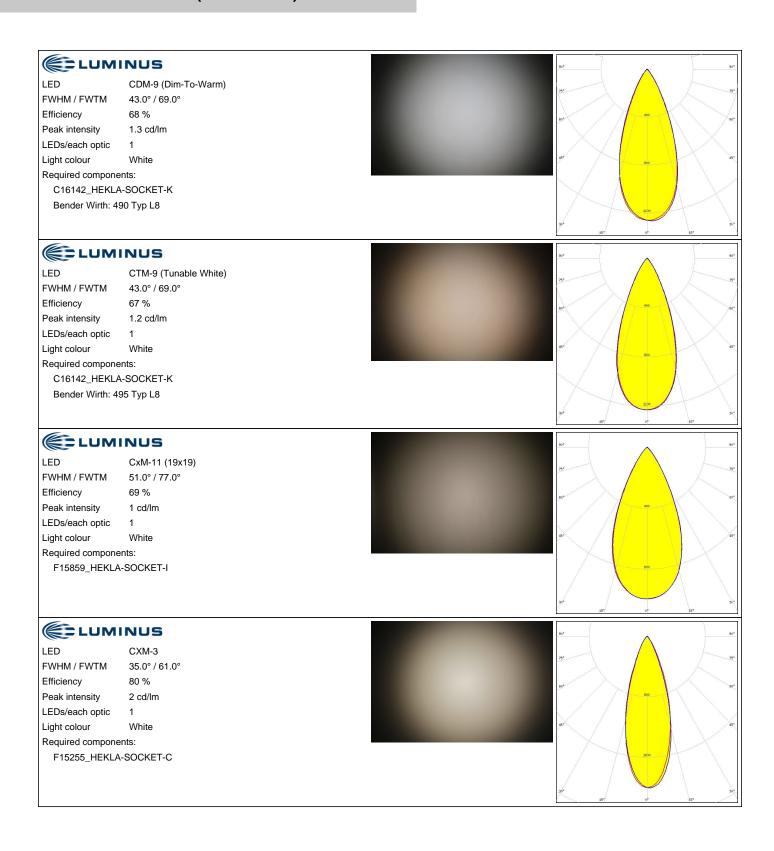






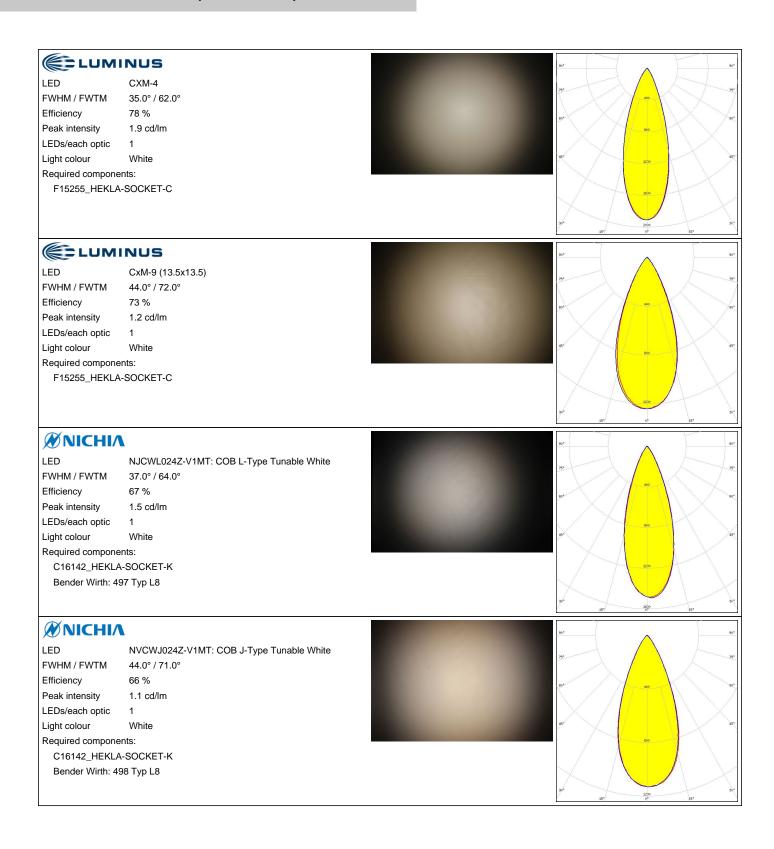






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PHILIPS

Required components:

LED Fortimo SLM L09 CoB

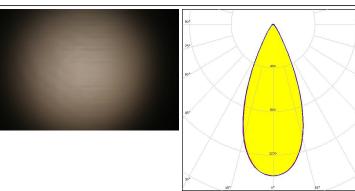
FWHM / FWTM 44.0° / 66.0°
Efficiency 75 %

Peak intensity 1.4 cd/lm

LEDs/each optic 1

Light colour White

F15858_HEKLA-SOCKET-H

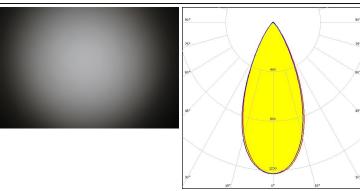


SAMSUNG

LED LC003D / LC006D / LC009D / LC013D

FWHM / FWTM 45.0° / 73.0°
Efficiency 74 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:

F15255_HEKLA-SOCKET-C



SAMSUNG

 LED
 LC010C G2

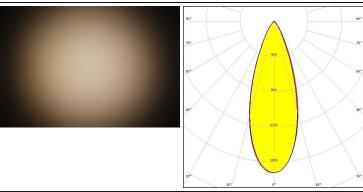
 FWHM / FWTM
 37.0° / 65.0°

 Efficiency
 76 %

 Peak intensity
 1.7 cd/lm

LEDs/each optic 1
Light colour White
Required components:

F15255_HEKLA-SOCKET-C



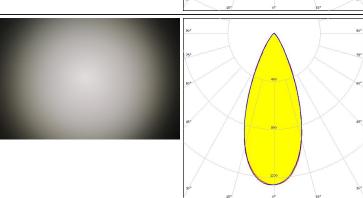
SAMSUNG

LED LC010T (Tunable White)

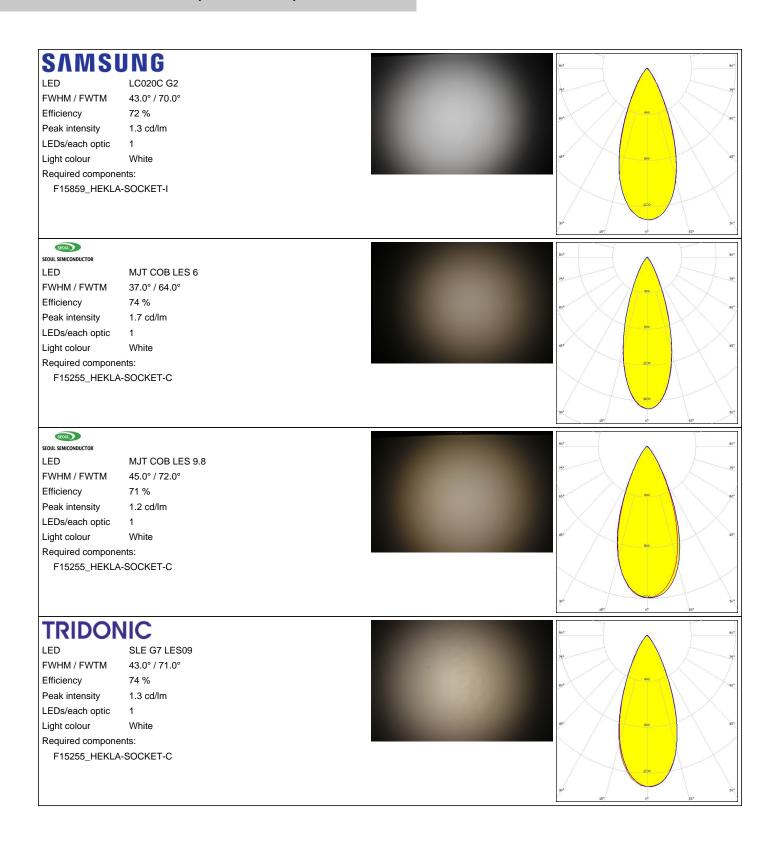
FWHM / FWTM 42.0° / 70.0° Efficiency 68 % Peak intensity 1.3 cd/lm LEDs/each optic 1

Light colour Tunable White

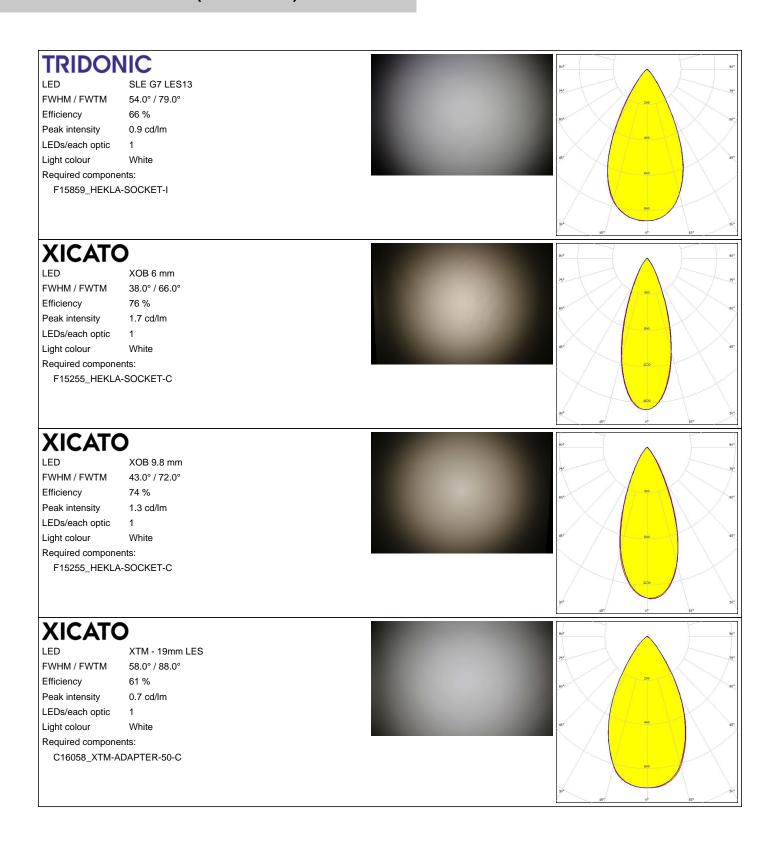
Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 501 Typ L8













OPTICAL RESULTS (SIMULATED):

bridgelux

LED VERO13
FWHM / FWTM 45.0° / 73.0°
Efficiency 63 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White

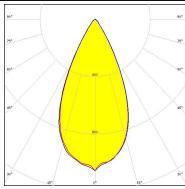
Required components:

C16142_HEKLA-SOCKET-K

CREE - LED

LED CMA1825
FWHM / FWTM 49.0° / 72.0°
Efficiency 70 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White

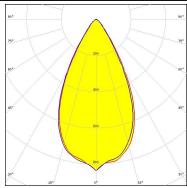
Required components:



CREE = LED

LED CMA1840
FWHM / FWTM 55.0° / 79.0°
Efficiency 66 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour White

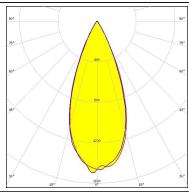
Required components:



CREE - LED

LED CMT14xx
FWHM / FWTM 41.0° / 63.0°
Efficiency 71 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour White

Required components: F17435_HEKLA-G2-C





OPTICAL RESULTS (SIMULATED):



LED CXA/B 15xx

FWHM / FWTM 35.8° / 60.0°

Efficiency %

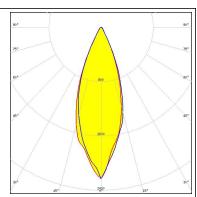
Peak intensity 2.3 cd/lm

LEDs/each optic 1

Light colour White

Required components:

F15256_HEKLA-SOCKET-D



CREE + LED

LED CXA/B 1816 & CXA/B 1820 & CXA 1850

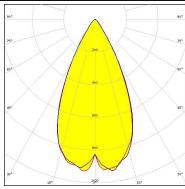
FWHM / FWTM 52.0° / 74.0°

Efficiency 66 %
Peak intensity 1 cd/lm

LEDs/each optic 1
Light colour White

Required components:

F15254_HEKLA-SOCKET-B



WNICHIA

LED COB S-Type (LES 7)

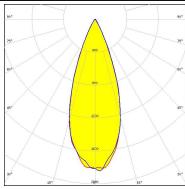
FWHM / FWTM 38.0° / 58.0°

Efficiency 75 %
Peak intensity 1.9 cd/lm

LEDs/each optic 1
Light colour White

Required components:

F15848_HEKLA-SOCKET-G



WNICHIA

Light colour

LED COB T-Type

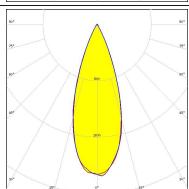
FWHM / FWTM 36.0° / 55.0° Efficiency 78 %

White

Peak intensity 2.2 cd/lm LEDs/each optic 1

Required components:

F15848_HEKLA-SOCKET-G





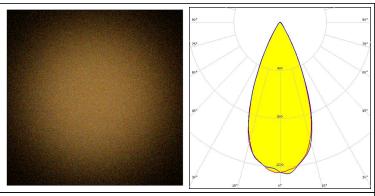
OPTICAL RESULTS (SIMULATED):

SAMSUNG

LED LC003D / LC006D / LC009D / LC013D

FWHM / FWTM 44.0° / 66.0°
Efficiency 69 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White

Required components: F17435_HEKLA-G2-C

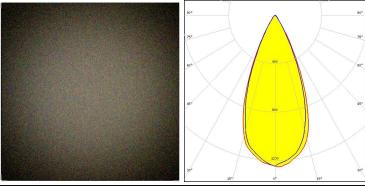


SAMSUNG

LED LC003D / LC006D / LC009D / LC013D

FWHM / FWTM 45.0° / 67.0°
Efficiency 69 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White

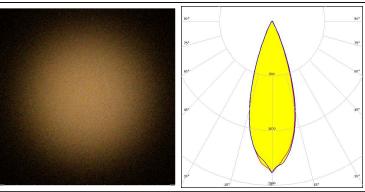
Required components: F17435_HEKLA-G2-C



SAMSUNG

LED LC010C
FWHM / FWTM 34.0° / 54.0°
Efficiency 76 %
Peak intensity 2.2 cd/lm
LEDs/each optic 1
Light colour White

Required components: F17435_HEKLA-G2-C





PRODUCT DATASHEET CP15775_CARMEN-M-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.

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