

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:

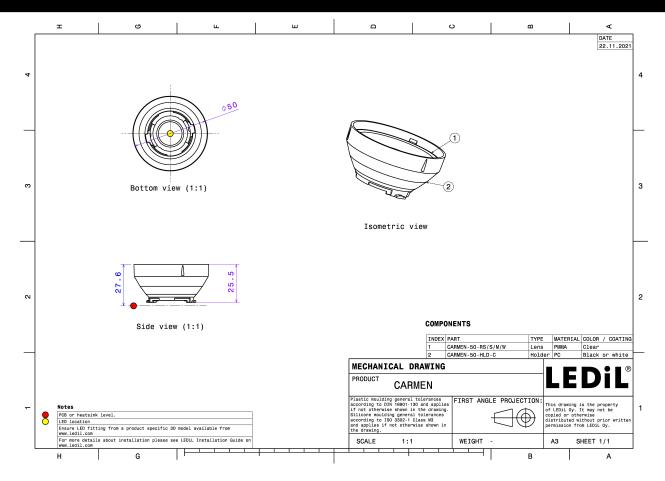
Component	Туре	Material	Colour	Finish	Length
CARMEN-50-S	Single lens	PMMA	clear		47.0
CARMEN-50-HI D-C	Holder	PC:	black		

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





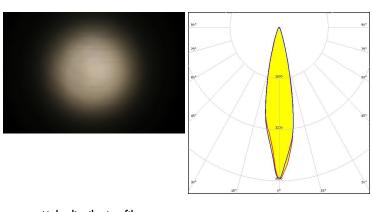
See also our general installation guide: www.ledil.com/installation_guide

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bridgelux

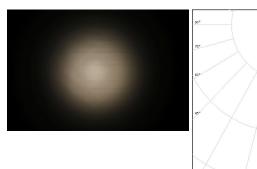
LED V4 HD Gen 7 $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 21.0° / 38.0° Efficiency 79 % Peak intensity 4.7 cd/lm LEDs/each optic Light colour/type White Required components: F15253_HEKLA-SOCKET-A

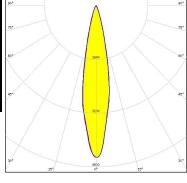


Light distribution files

bridgelux

V6 HD Gen 7 FWHM / FWTM 20.0° / 38.0° Efficiency 73 % Peak intensity 4.5 cd/lm LEDs/each optic Light colour/type White Required components: F15255_HEKLA-SOCKET-C



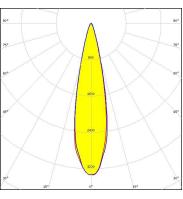


Light distribution files

bridgelux

LED V9 HD Gen7 FWHM / FWTM 23.0° / 40.0° Efficiency 65 % Peak intensity 3.3 cd/lm LEDs/each optic Light colour/type White Required components: F15859_HEKLA-SOCKET-I



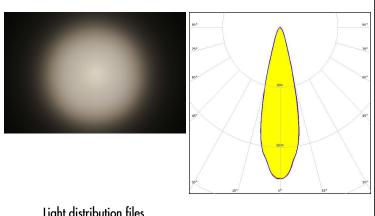


Light distribution files

OPTICAL RESULTS (MEASURED):



LED VERO13 27.0° / 46.0° FWHM / FWTM Efficiency 53 % Peak intensity 2 cd/lm LEDs/each optic White Light colour/type Required components: C16142_HEKLA-SOCKET-K

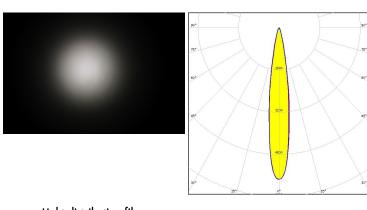


Light distribution files



Vesta TW 6mm DP FWHM / FWTM 15.0° / 31.0° Efficiency 63 % Peak intensity 5.7 cd/lm LEDs/each optic Light colour/type White Required components: C16142_HEKLA-SOCKET-K

Bender Wirth: 504 Typ L8



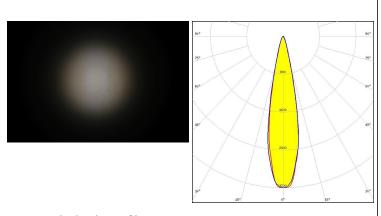
Light distribution files



LED Vesta TW 9mm (9W) DP

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

C16142_HEKLA-SOCKET-K Bender Wirth: 489 Typ L8



Light distribution files

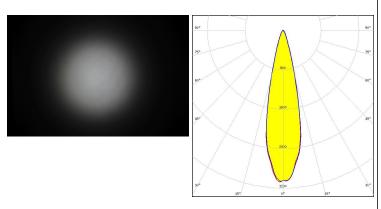


CITIZEN

LED CLL02x/CLU02x (LES10)

FWHM / FWTM 24.0° / 42.0°
Efficiency 66 %
Peak intensity 3.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

F15255_HEKLA-SOCKET-C



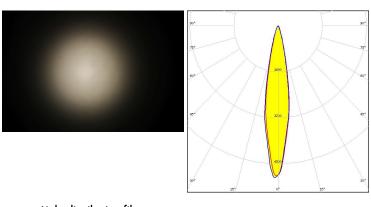
Light distribution files

CITIZEN

LED CLU700/701/702/703

FWHM / FWTM 19.0° / 35.0°
Efficiency 73 %
Peak intensity 5.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

F15255_HEKLA-SOCKET-C



Light distribution files

CITIZEN

 LED
 CLU710/711

 FWHM / FWTM
 22.0° / 39.0°

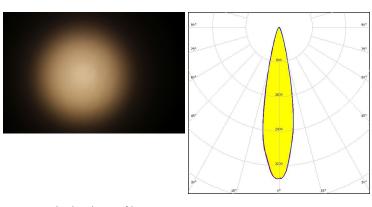
 Efficiency
 65 %

 Peak intensity
 3.5 cd/lm

 LEDs/each optic
 1

Light colour/type White Required components:

F15859_HEKLA-SOCKET-I

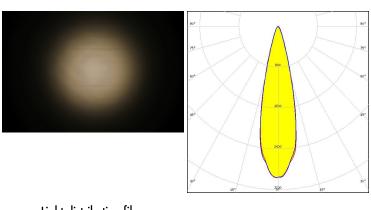


Light distribution files



CREE \$

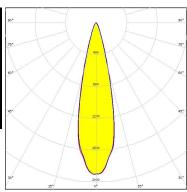
CMA1516 LED 25.0° / 43.0° FWHM / FWTM Efficiency 68 % Peak intensity 3 cd/lm LEDs/each optic White Light colour/type Required components: F15256_HEKLA-SOCKET-D



Light distribution files

CREE \$

CMT14xx FWHM / FWTM 25.0° / 43.0° Efficiency 44 % Peak intensity 1.9 cd/lm LEDs/each optic Light colour/type White Required components: F15255_HEKLA-SOCKET-C

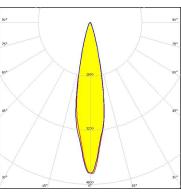


Light distribution files

CREE \$

LED CXA/B 13xx $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 21.0° / 39.0° Efficiency 76 % Peak intensity 4.5 cd/lm LEDs/each optic Light colour/type White Required components: F15956_HEKLA-SOCKET-J



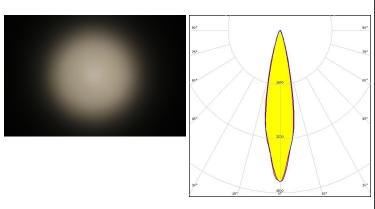


Light distribution files

OPTICAL RESULTS (MEASURED):

CREE \$

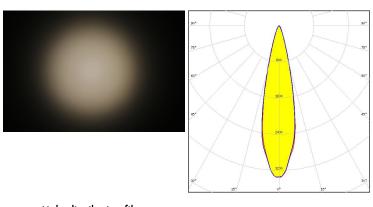
LED CXA/B 13xx
FWHM / FWTM 22.0° / 39.0°
Efficiency 77 %
Peak intensity 4.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F15956_HEKLA-SOCKET-J



Light distribution files

CREE \$

LED CXA/B 15xx
FWHM / FWTM 24.0° / 41.0°
Efficiency 69 %
Peak intensity 3.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F15256_HEKLA-SOCKET-D

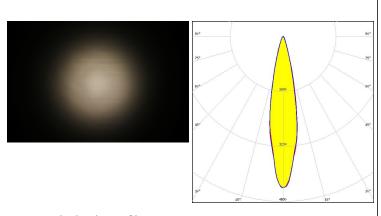


Light distribution files

DESCRIPTION

LED LUXEON CoB 1202HD

FWHM / FWTM 21.0° / 38.0°
Efficiency 73 %
Peak intensity 4.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F15848_HEKLA-SOCKET-G



Light distribution files

OPTICAL RESULTS (MEASURED):

UMILEDS

LED LUXEON CoB 1202s

FWHM / FWTM 21.0° / 38.0°

Efficiency 75 %

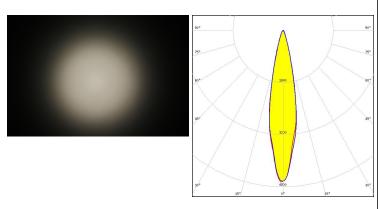
Peak intensity 4.7 cd/lm

LEDs/each optic 1

Light colour/type White

Required components:

F15848_HEKLA-SOCKET-G



Light distribution files

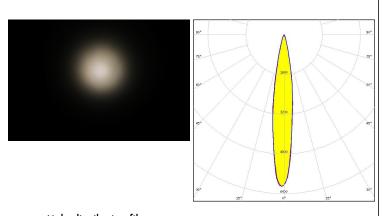
UMILEDS

LED LUXEON CX Plus CoB - HD S01H4

FWHM / FWTM 16.0° / 32.0°
Efficiency 68 %
Peak intensity 6.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

equired components:

Bender Wirth: 634c Hekla

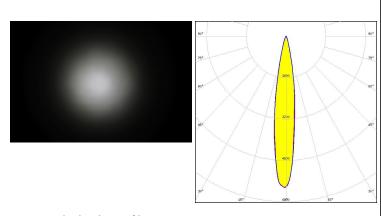


Light distribution files

MILEDS

LED LUXEON CX Plus CoB - HD S02H6

FWHM / FWTM 16.0° / 32.0°
Efficiency 67 %
Peak intensity 5.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
Bender Wirth: 634c Hekla



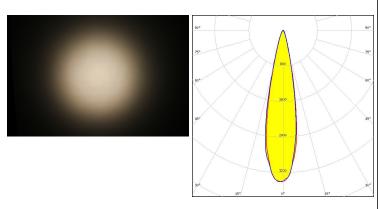
Light distribution files

OPTICAL RESULTS (MEASURED):

LUMILEDS

LUXEON CX Plus CoB - HD S04H9

FWHM / FWTM 22.0° / 38.0° Efficiency 61 % Peak intensity 3.4 cd/lm LEDs/each optic White Light colour/type Required components: Bender Wirth: 634c Hekla



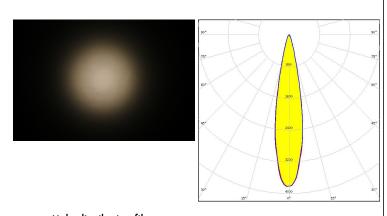
Light distribution files



LUXEON CX Plus CoB M02 / M03 (Gen2)

FWHM / FWTM 20.0° / 36.0° Efficiency 61 % Peak intensity 3.8 cd/lm LEDs/each optic Light colour/type White Required components:

Bender Wirth: 641a Hekla

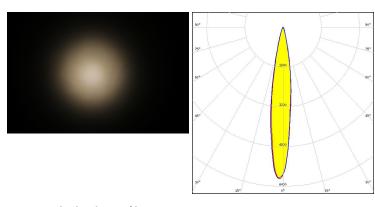


Light distribution files

LUMILEDS

LED LUXEON CX Plus CoB S01 (Gen2)

FWHM / FWTM 15.0° / 31.0° Efficiency 68 % Peak intensity 6.2 cd/lm LEDs/each optic Light colour/type White Required components: Bender Wirth: 634c Hekla



Light distribution files

OPTICAL RESULTS (MEASURED):



LED CDM-9 (Dim-To-Warm)

FWHM / FWTM 21.0° / 35.0°

Efficiency 57 %

Peak intensity 3.7 cd/lm

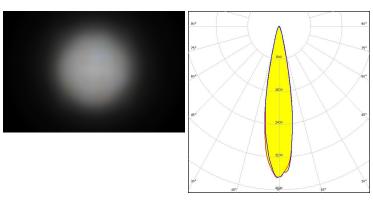
LEDs/each optic 1

Light colour/type White

Required components:

C16142_HEKLA-SOCKET-K

Bender Wirth: 490 Typ L8

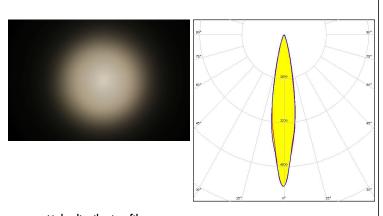


Light distribution files



LED CXM-4
FWHM / FWTM 18.0° / 35.0°
Efficiency 76 %
Peak intensity 5.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

F15255_HEKLA-SOCKET-C



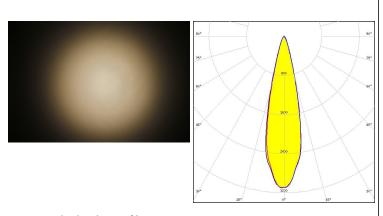
Light distribution files



LED CxM-9 (13.5x13.5) FWHM / FWTM 24.0° / 42.0°

Efficiency 67 %
Peak intensity 3.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

F15255_HEKLA-SOCKET-C



Light distribution files

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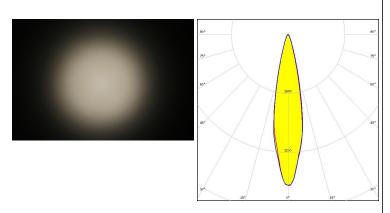
OPTICAL RESULTS (MEASURED):

WNICHIA

COB S-Type (LES 7)

FWHM / FWTM 22.0° / 39.0° Efficiency 73 % Peak intensity 4.1 cd/lm LEDs/each optic White Light colour/type Required components:

F15848_HEKLA-SOCKET-G



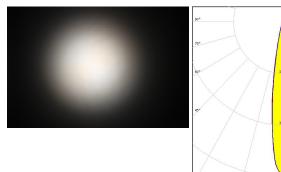
Light distribution files

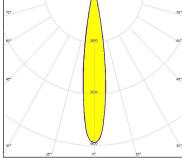


NJCWL024Z-V1MT: COB L-Type Tunable White

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

C16142_HEKLA-SOCKET-K Bender Wirth: 497 Typ L8



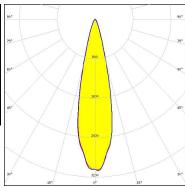


Light distribution files

LED Fortimo SLM L09 CoB

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

F15858_HEKLA-SOCKET-H



Light distribution files

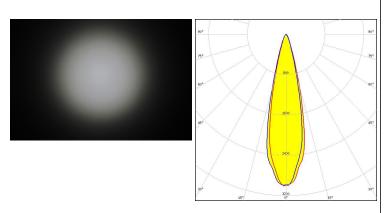


SAMSUNG

LC003D / LC006D / LC009D / LC013D

FWHM / FWTM 25.0° / 43.0° Efficiency 67 % Peak intensity 3 cd/lm LEDs/each optic White Light colour/type Required components:

F15255_HEKLA-SOCKET-C



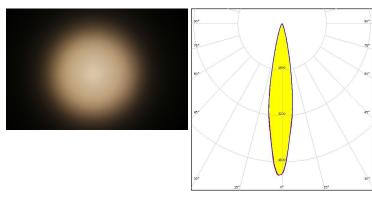
Light distribution files

SAMSUNG

LC010C G2 FWHM / FWTM 19.0° / 35.0° Efficiency 74 % Peak intensity 5.3 cd/lm LEDs/each optic

Light colour/type White Required components:

F15255_HEKLA-SOCKET-C

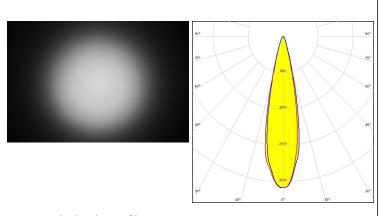


Light distribution files

SAMSUNG

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

Required components: F15859_HEKLA-SOCKET-I



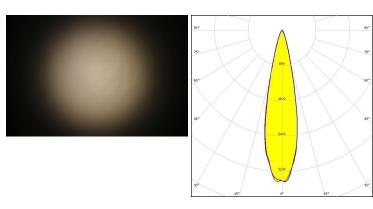
Light distribution files



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/type White
Required components:

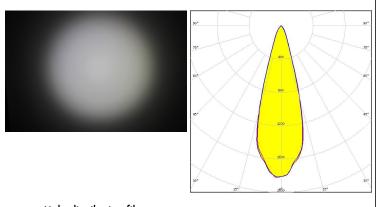
F15255_HEKLA-SOCKET-C



Light distribution files

TRIDONIC

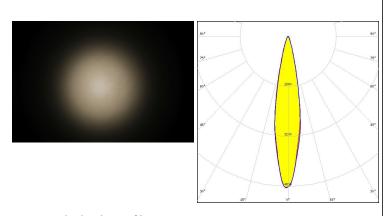
LED SLE G7 LES13
FWHM / FWTM 31.0° / 51.0°
Efficiency 58 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F15859_HEKLA-SOCKET-I



Light distribution files

XICATO

LED XOB 6 mm
FWHM / FWTM 19.0° / 36.0°
Efficiency 73 %
Peak intensity 4.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F15255_HEKLA-SOCKET-C



Light distribution files



XICATO

LED XOB 9.8 mm
FWHM / FWTM 24.0° / 42.0°
Efficiency 67 %
Peak intensity 3.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F15255_HEKLA-SOCKET-C

Light distribution files

Published: 15/05/2018

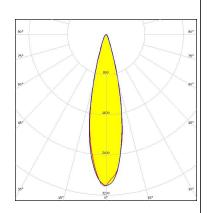


OPTICAL RESULTS (SIMULATED):



LED V10 Gen7
FWHM / FWTM 24.0° / 42.0°
Efficiency 65 %
Peak intensity 3.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

F15255_HEKLA-SOCKET-C

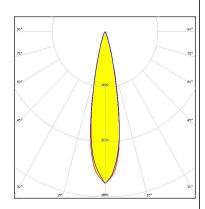


Light distribution files

bridgelux.

LED V6 Gen6
FWHM / FWTM 21.0° / 37.0°
Efficiency 71 %
Peak intensity 4.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

F15253_HEKLA-SOCKET-A

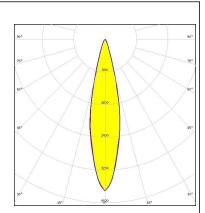


Light distribution files



LED V8 Gen7
FWHM / FWTM 24.0° / 40.0°
Efficiency 71 %
Peak intensity 3.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

F15253_HEKLA-SOCKET-A



Light distribution files

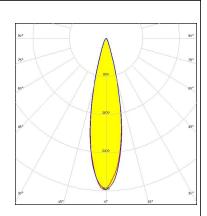


OPTICAL RESULTS (SIMULATED):



LED VERO10
FWHM / FWTM 24.0° / 41.0°
Efficiency 64 %
Peak intensity 3.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

F15616_HEKLA-SOCKET-F



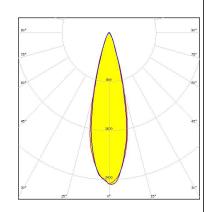
Light distribution files



LED VERO13
FWHM / FWTM 27.0° / 46.0°
Efficiency 66 %
Peak intensity 2.5 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:

C16142_HEKLA-SOCKET-K

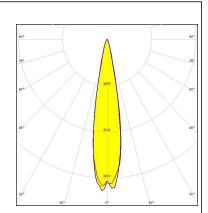


Light distribution files

CREE -

LED CHA0304
FWHM / FWTM 20.0° / 33.0°
Efficiency 72 %
Peak intensity 5.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

F17435_HEKLA-G2-C



Light distribution files

OPTICAL RESULTS (SIMULATED):

CREE +

LED CHA0612
FWHM / FWTM 16.0° / 31.0°
Efficiency 66 %
Peak intensity 5.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

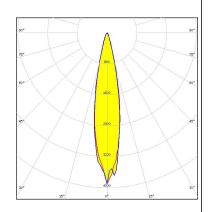
F17435_HEKLA-G2-C

Light distribution files

CREE \$

LED CHA0825
FWHM / FWTM 20.0° / 36.0°
Efficiency 60 %
Peak intensity 3.9 cd/lm
LEDs/each optic 1
Light colour/type White

Required components: F17438_HEKLA-G2-I



Light distribution files



LED COB S-Type (LES 6)

FWHM / FWTM 30.0° / 50.0°

Efficiency 62 %

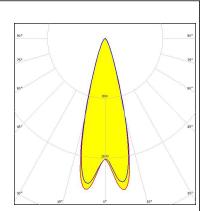
Peak intensity 2.1 cd/lm

LEDs/each optic 1

Light colour/type White

Required components:

F15848_HEKLA-SOCKET-G



Light distribution files



OPTICAL RESULTS (SIMULATED):

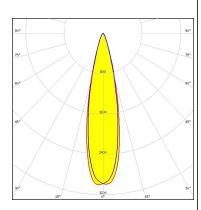
SAMSUNG

LED LH231B FWHM / FWTM 23.0° / 42.0°

Efficiency 63 %
Peak intensity 3 cd/lm
LEDs/each optic 7
Light colour/type White

Required components:

F15255_HEKLA-SOCKET-C



Light distribution files

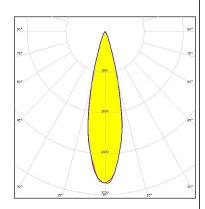
XICATO

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

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

Required components:

C15743_XTM-ADAPTER-50-B



Light distribution files

Published: 15/05/2018



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.

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LEDIL Oy

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Local sales and technical support

www.ledil.com/ where_to_buy

Shipping locations

Poznan, Poland Hong Kong, China

Distribution Partners

19/19

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