

#### **CARMEN-50-RS-C**

~12° 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 🕕



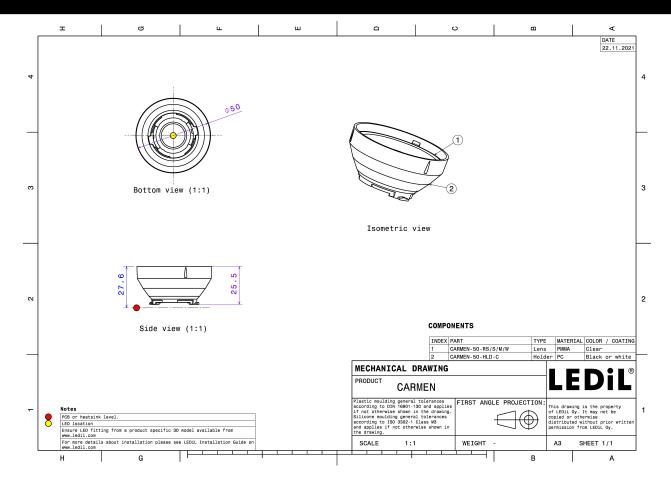
#### **MATERIALS:**

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

#### **ORDERING INFORMATION:**

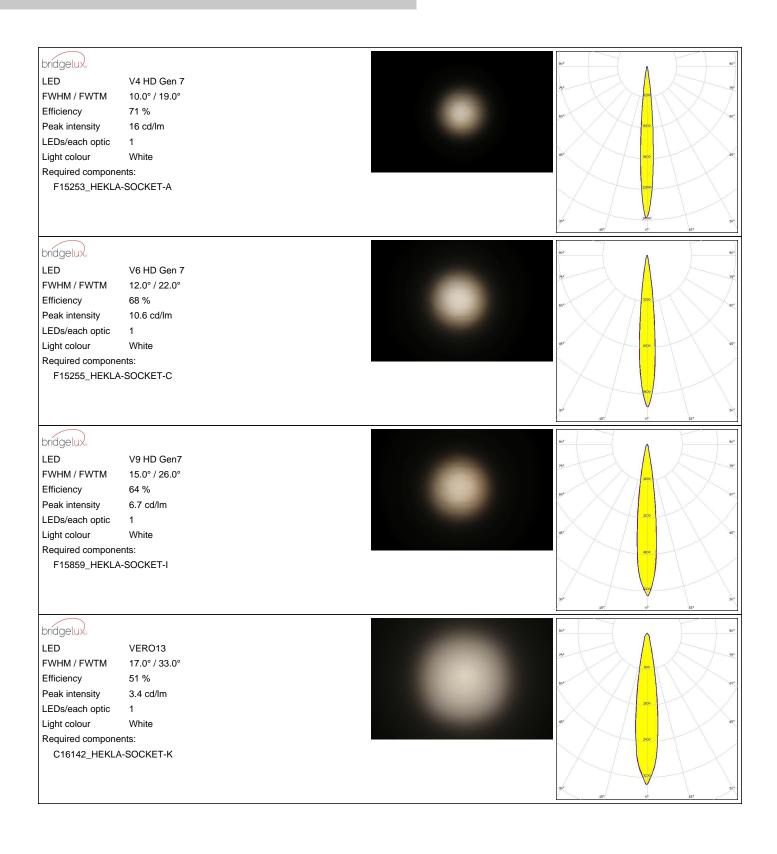
Component		Qty in box	MOQ	MPQ	Box weight (kg)
CP16106_CARMEN-50-RS-C	Single lens	308	112	28	7.2
» Box size: 476 x 273 x 292 mm					



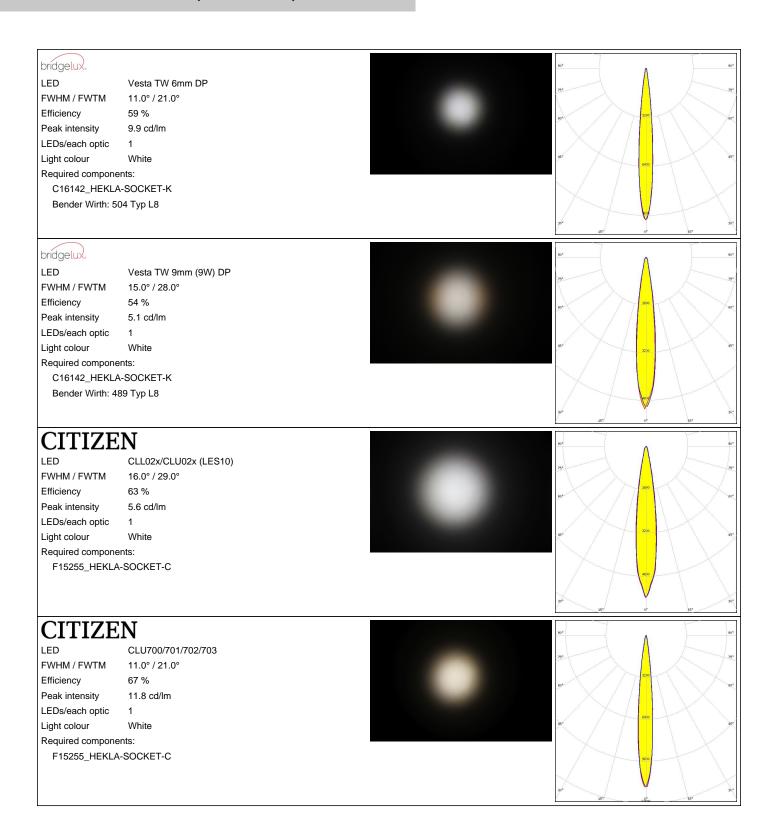


See also our general installation guide: www.ledil.com/installation\_guide





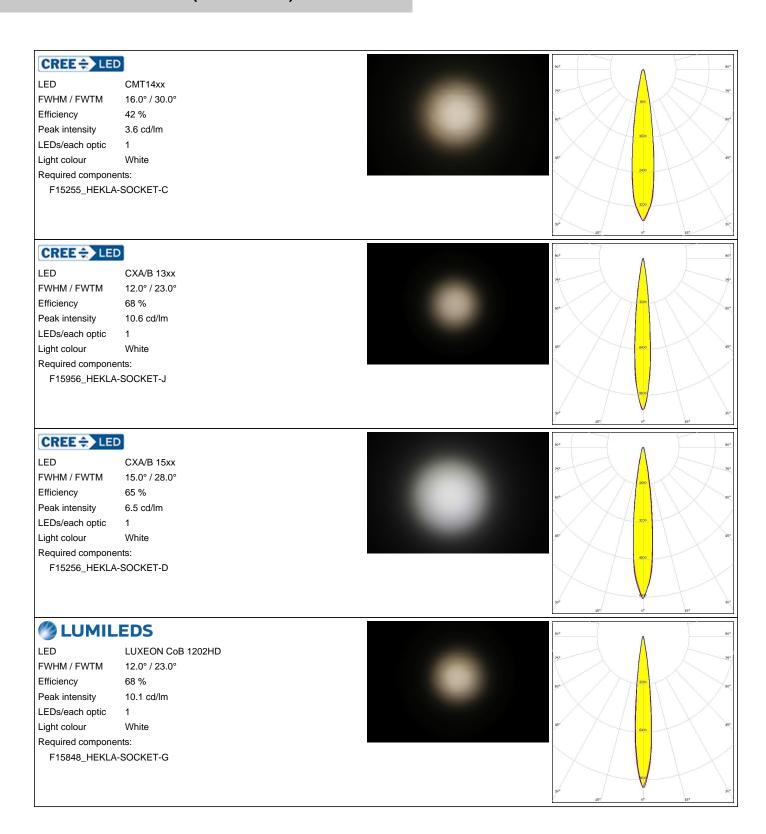


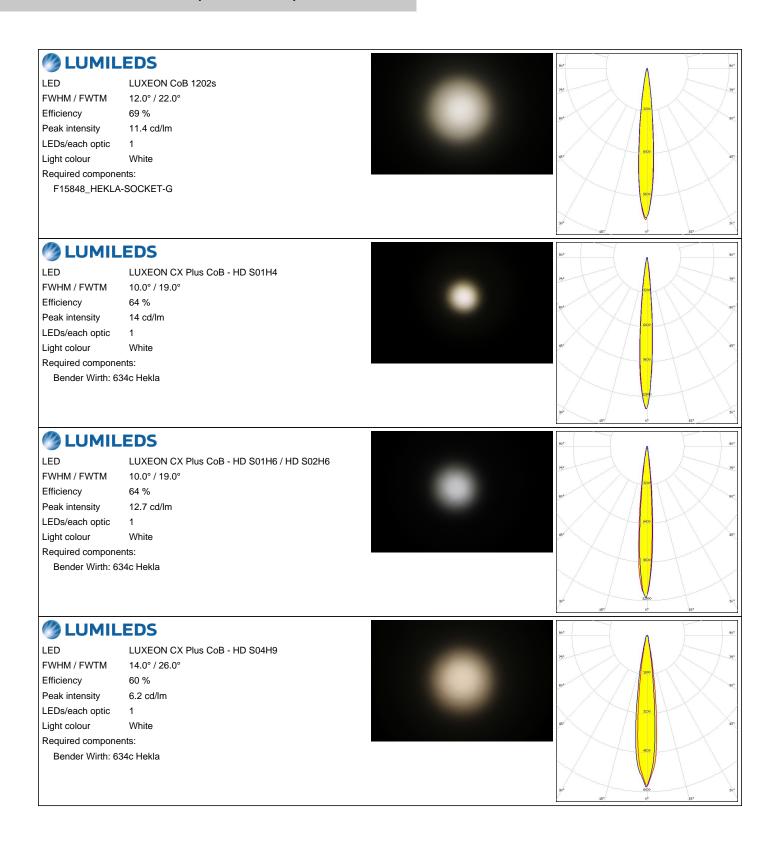




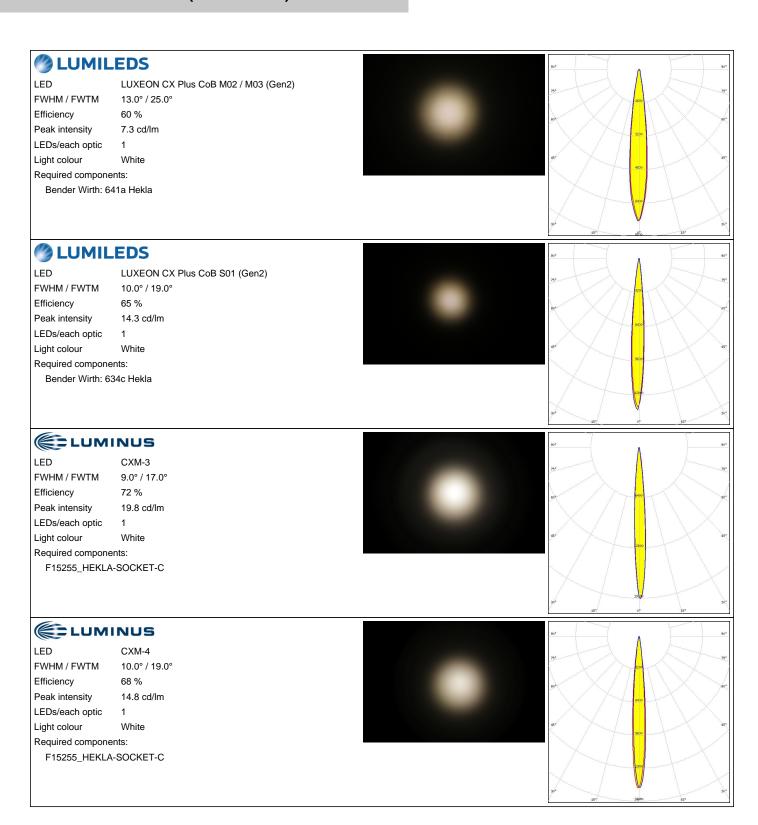
#### **CITIZEN** CLU710/711 $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 14.0° / 27.0° Efficiency 62 % Peak intensity 6.4 cd/lm LEDs/each optic Light colour White Required components: F15859\_HEKLA-SOCKET-I **CITIZEN** LED CLU7A2/7A3 FWHM / FWTM 9.0° / 18.0° Efficiency 72 % Peak intensity 18.5 cd/lm LEDs/each optic 1 White Light colour Required components: F15255\_HEKLA-SOCKET-C **CITIZEN** CLU7B2 FWHM / FWTM 8.0° / 17.0° Efficiency 71 % Peak intensity 20 cd/lm LEDs/each optic Light colour White Required components: F15255\_HEKLA-SOCKET-C CREE - LED CMA1516 FWHM / FWTM 16.0° / 29.0° Efficiency 65 % Peak intensity 5.9 cd/lm LEDs/each optic White Light colour Required components: F15256\_HEKLA-SOCKET-D



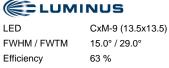








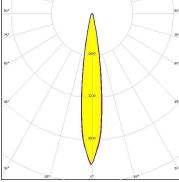




Peak intensity 5.8 cd/lm LEDs/each optic Light colour White

F15255\_HEKLA-SOCKET-C





#### **WNICHIA**

Required components:

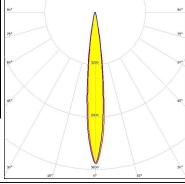
LED COB S-Type (LES 7)

FWHM / FWTM 13.0° / 24.0° Efficiency 67 % Peak intensity 9.3 cd/lm LEDs/each optic 1

White Light colour Required components:

F15848\_HEKLA-SOCKET-G



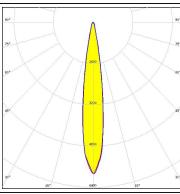


Fortimo SLM L09 CoB

FWHM / FWTM 15.0° / 28.0° Efficiency 64 % Peak intensity 6 cd/lm LEDs/each optic Light colour White

Required components: F15858\_HEKLA-SOCKET-H





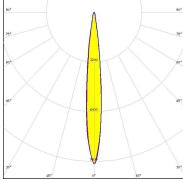
### **SAMSUNG**

FWHM / FWTM 11.0° / 22.0° Efficiency 64 % Peak intensity 9.8 cd/lm LEDs/each optic White Light colour

F15848\_HEKLA-SOCKET-G

Required components:







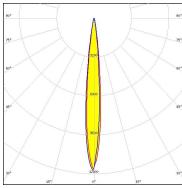
### **SAMSUNG**

LED LC010C G2
FWHM / FWTM 11.0° / 21.0°
Efficiency 67 %
Peak intensity 12.6 cd/lm
LEDs/each optic 1

Light colour White Required components:

F15255\_HEKLA-SOCKET-C





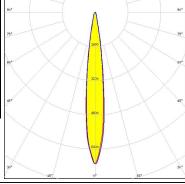
### **SAMSUNG**

LED LC020C
FWHM / FWTM 13.0° / 26.0°
Efficiency 64 %
Peak intensity 7.1 cd/lm
LEDs/each optic 1
Light colour White

Light colour White Required components:

F15848\_HEKLA-SOCKET-G



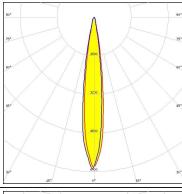


### **SAMSUNG**

LED LC020C G2
FWHM / FWTM 15.0° / 27.0°
Efficiency 63 %
Peak intensity 6.3 cd/lm
LEDs/each optic 1
Light colour White

Required components: F15859\_HEKLA-SOCKET-I





### **TRIDONIC**

 LED
 SLE G7 LES09

 FWHM / FWTM
 15.0° / 27.0°

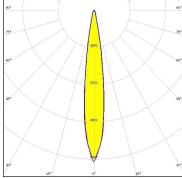
 Efficiency
 66 %

 Peak intensity
 6.5 cd/lm

LEDs/each optic 1
Light colour White
Required components:

F15255\_HEKLA-SOCKET-C



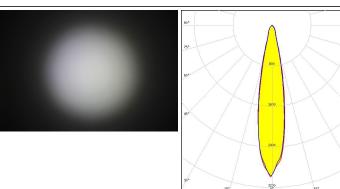




## **TRIDONIC**

LED SLE G7 LES13
FWHM / FWTM 20.0° / 37.0°
Efficiency 56 %
Peak intensity 3 cd/lm
LEDs/each optic 1
Light colour White
Required components:

F15858\_HEKLA-SOCKET-H



### **XICATO**

 LED
 XOB 6 mm

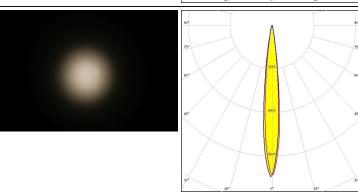
 FWHM / FWTM
 11.0° / 21.0°

 Efficiency
 66 %

 Peak intensity
 11.1 cd/lm

LEDs/each optic 1
Light colour White
Required components:

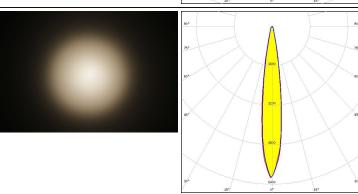
F15255\_HEKLA-SOCKET-C



### **XICATO**

LED XOB 9.8 mm
FWHM / FWTM 15.0° / 28.0°
Efficiency 63 %
Peak intensity 6.1 cd/lm
LEDs/each optic 1
Light colour White

F15255\_HEKLA-SOCKET-C



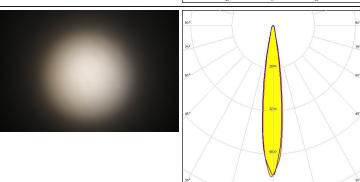
### **XICATO**

Required components:

 $\begin{array}{lll} \text{LED} & \text{XTM - 9mm LES} \\ \text{FWHM / FWTM} & 15.0^{\circ} \, / \, 28.0^{\circ} \\ \text{Efficiency} & 60 \, \% \\ \end{array}$ 

Peak intensity 5.8 cd/lm LEDs/each optic 1
Light colour White Required components:

C15743\_XTM-ADAPTER-50-B





White

White

bridgelux

LED V10 Gen7

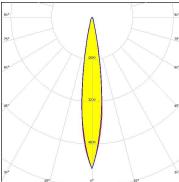
FWHM / FWTM 16.0° / 30.0° Efficiency 60 %

Peak intensity 5.7 cd/lm

LEDs/each optic 1

Light colour
Required components:

F15255\_HEKLA-SOCKET-C



bridgelux.

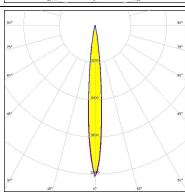
LED V6 Gen6 FWHM / FWTM 10.0° / 21.0°

Efficiency 66 %
Peak intensity 13 cd/lm

LEDs/each optic 1

Light colour
Required components:

F15253\_HEKLA-SOCKET-A



bridgelux

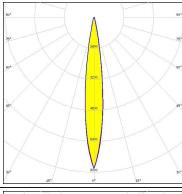
LED V8 Gen7 FWHM / FWTM 14.0° / 26.0°

Efficiency 63 %
Peak intensity 7.8 cd/lm

LEDs/each optic 1
Light colour White

Required components:

F15253\_HEKLA-SOCKET-A



bridgelux.

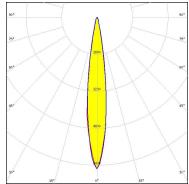
LED VERO10

FWHM / FWTM 15.0° / 27.0° Efficiency 61 % Peak intensity 6.7 cd/lm

LEDs/each optic 1
Light colour White

Required components:

F15616\_HEKLA-SOCKET-F



#### **OPTICAL RESULTS (SIMULATED):**



LED CHA0304

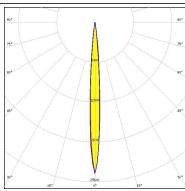
FWHM / FWTM 8.0° / 15.0° Efficiency 65 %

Peak intensity 24.3 cd/lm

LEDs/each optic 1

Light colour White

Required components: F17435\_HEKLA-G2-C



#### CREE & LED

LED CHA0612

FWHM / FWTM 10.0° / 20.0°

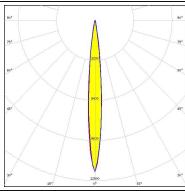
Efficiency 61 % Peak intensity 12.1 cd/lm

LEDs/each optic 1

Light colour White

Required components:

F17435\_HEKLA-G2-C



#### CREE = LED

LED CHA0825

FWHM / FWTM 14.0° / 26.0°

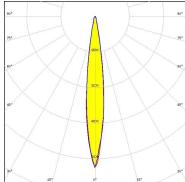
Efficiency 57 %

Peak intensity 6.8 cd/lm

LEDs/each optic 1

Light colour White

Required components: F17438\_HEKLA-G2-I



### **MUMILEDS**

LED LUXEON CoB 1202/1203

FWHM / FWTM 14.0° / 28.0°

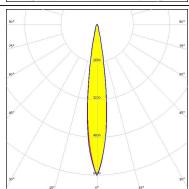
Efficiency 61 %

Peak intensity 6.4 cd/lm LEDs/each optic 1

Light colour White

Required components:

F15858\_HEKLA-SOCKET-H



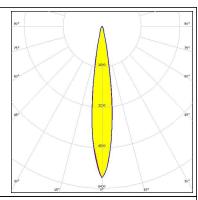


LED LUXEON CoB 1204HD

FWHM / FWTM 16.0° / 28.0°
Efficiency 61 %
Peak intensity 6 cd/lm
LEDs/each optic 1
Light colour White

F15858\_HEKLA-SOCKET-H

Required components:



#### **ELUMINUS**

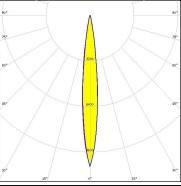
LED CxM-6 (13.5x13.5) FWHM / FWTM 12.0° / 23.0°

Efficiency 65 %
Peak intensity 10.6 cd/lm

LEDs/each optic 1
Light colour White

Required components:

F15255\_HEKLA-SOCKET-C



#### **WNICHIA**

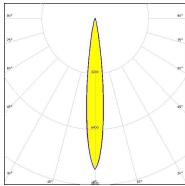
LED COB S-Type (LES 6)

FWHM / FWTM 13.0° / 25.0° Efficiency 63 % Peak intensity 8.7 cd/lm

LEDs/each optic 1
Light colour White

Required components:

F15848\_HEKLA-SOCKET-G



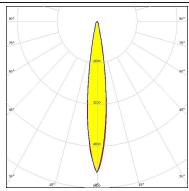
#### **OSRAM**

LED Soleriq S9

FWHM / FWTM 15.0° / 28.0°
Efficiency 59 %
Peak intensity 5.8 cd/lm
LEDs/each optic 1
Light colour White

Required components:

F15255\_HEKLA-SOCKET-C





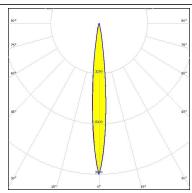
### **PHILIPS**

LED Fortimo SLM L06 CoB

FWHM / FWTM 10.0° / 22.0°
Efficiency 53 %
Peak intensity 9.6 cd/lm
LEDs/each optic 1
Light colour White

Required components:

F15858\_HEKLA-SOCKET-H

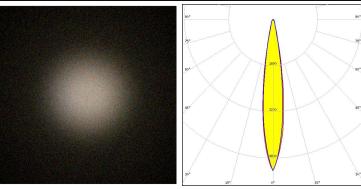


### **SAMSUNG**

LED LC003D / LC006D / LC009D / LC013D

FWHM / FWTM 16.0° / 30.0°
Efficiency 58 %
Peak intensity 5.2 cd/lm
LEDs/each optic 1
Light colour White

Required components: F17435\_HEKLA-G2-C



### **SAMSUNG**

LED LC003D / LC006D / LC009D / LC013D

FWHM / FWTM 16.0° / 30.0°

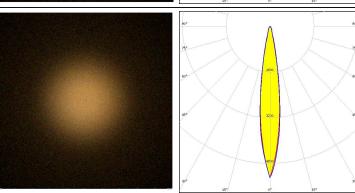
Efficiency 58 %

Peak intensity 5.3 cd/lm

LEDs/each optic 1

Light colour White

Required components: F17435\_HEKLA-G2-C



### **SAMSUNG**

 LED
 LC010C

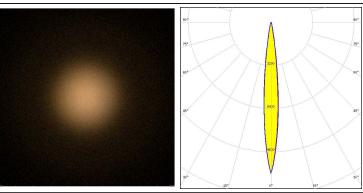
 FWHM / FWTM
 12.0° / 22.0°

 Efficiency
 64 %

 Peak intensity
 11.2 cd/lm

LEDs/each optic 1
Light colour White
Required components:

F17435\_HEKLA-G2-C





### **SAMSUNG**

LH231B

 $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 15.0° / 28.0°

Efficiency

58 % 6 cd/lm

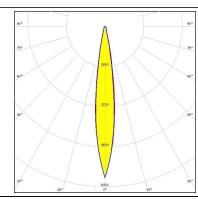
Peak intensity

LEDs/each optic Light colour

White

Required components:

F15255\_HEKLA-SOCKET-C



#### SEOUL SEOUL SEMICONDUCTOR

MJT COB LES 6 LED

FWHM / FWTM 11.0° / 21.0°

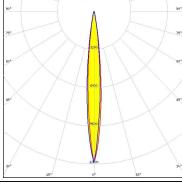
Efficiency 65 %

Peak intensity 12.7 cd/lm

LEDs/each optic 1

White Light colour

Required components: F17435\_HEKLA-G2-C



### SEOUL

LED MJT COB LES 9.8

 $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 16.0° / 30.0°

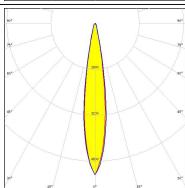
Efficiency 60 %

Peak intensity 5.3 cd/lm

LEDs/each optic 1

Light colour White

Required components: F17435\_HEKLA-G2-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

# Ledil Optics Technology (Shenzhen) Co., Ltd.

# 405 , Block B Casic Motor Building Shenzhen 518057 P.R.CHINA

# Local sales and technical support

www.ledil.com/ where\_to\_buy

#### **Shipping locations**

Salo, Finland Hong Kong, China

#### **Distribution Partners**

17/17

www.ledil.com/ where\_to\_buy