

#### **CARMEN-S-C**

~14° spot beam. Assembly with holder C compatible with LEDiL HEKLA.

#### **TECHNICAL SPECIFICATIONS:**

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



#### **MATERIAL SPECIFICATIONS:**

| Component    | Type        | Material | Colour | Finish |
|--------------|-------------|----------|--------|--------|
| CARMEN-S     | Single lens | PMMA     | clear  |        |
| CARMEN-HLD-C | Holder      | PC       | black  |        |

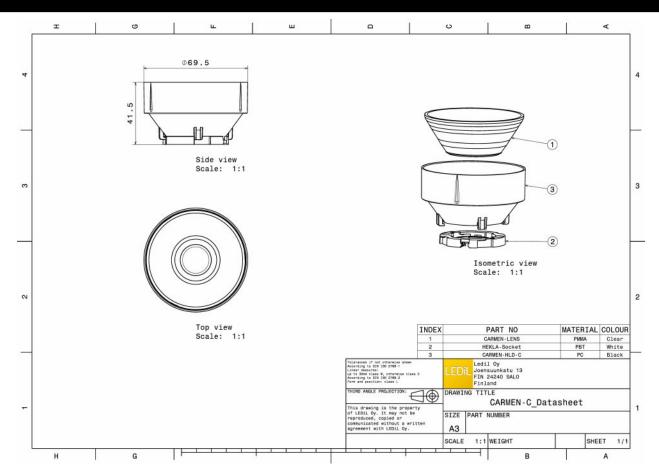
#### **ORDERING INFORMATION:**

» Box size: 476 x 273 x 292 mm

| Component          |             | Qty in box | MOQ | MPQ | Box weight (kg) |
|--------------------|-------------|------------|-----|-----|-----------------|
| CP15774_CARMEN-S-C | Single lens | 150        | 150 | 15  | 4.5             |

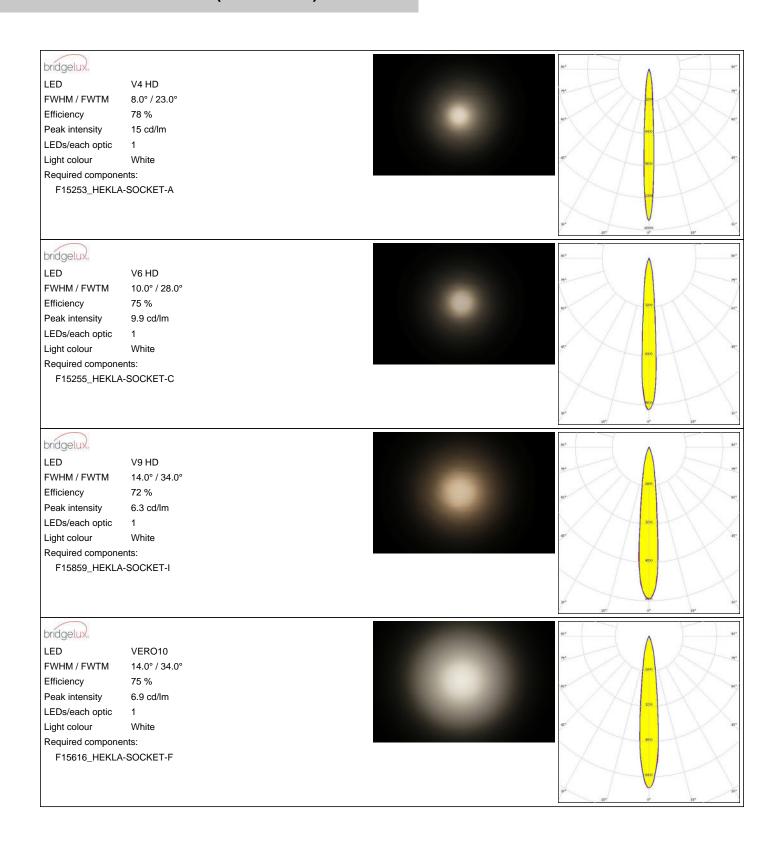


# PRODUCT DATASHEET CP15774\_CARMEN-S-C



See also our general installation guide: <a href="www.ledil.com/installation\_guide">www.ledil.com/installation\_guide</a>







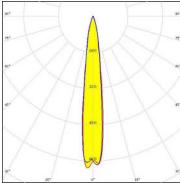
#### bridgelux

LED Vesta DTW 9mm (4W/6W/12W)

 $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 14.0° / 33.0° Efficiency 71 % Peak intensity 6.8 cd/lm LEDs/each optic Light colour White Required components:

C16142\_HEKLA-SOCKET-K Bender Wirth: 490 Typ L8





#### bridgelux.

LED Vesta TW 6mm DP FWHM / FWTM 11.0° / 27.0° Efficiency 75 % Peak intensity 10.5 cd/lm LEDs/each optic 1 White Light colour Required components:

C16142\_HEKLA-SOCKET-K Bender Wirth: 504 Typ L8



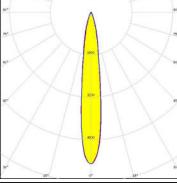
#### bridgelux

LED Vesta TW 9mm (9W) DP

 $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 15.0° / 36.0° Efficiency 71 % Peak intensity 5.7 cd/lm LEDs/each optic Light colour White Required components:

C16142\_HEKLA-SOCKET-K Bender Wirth: 489 Typ L8



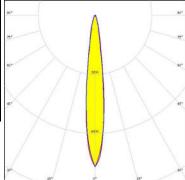


# **CITIZEN**

CLL02x/CLU02x (LES10)

FWHM / FWTM 15.0° / 36.0° Efficiency 74 % Peak intensity 6 cd/lm LEDs/each optic White Light colour Required components: F15255\_HEKLA-SOCKET-C





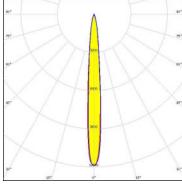


# **CITIZEN**

LED CLU700/701/702
FWHM / FWTM 10.0° / 25.0°
Efficiency 78 %
Peak intensity 12.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:

F15255\_HEKLA-SOCKET-C



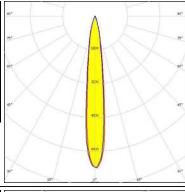


## **CITIZEN**

LED CLU710/711
FWHM / FWTM 13.0° / 33.0°
Efficiency 73 %
Peak intensity 7.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:

F15859\_HEKLA-SOCKET-I





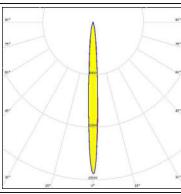
## **CITIZEN**

LED CLU7A2 (LES 4.2mm)

FWHM / FWTM 7.0° / 20.0°
Efficiency 80 %
Peak intensity 18.5 cd/lm
LEDs/each optic 1
Light colour White

F15255\_HEKLA-SOCKET-C





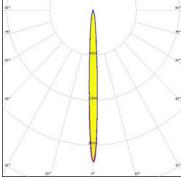
# **CITIZEN**

Required components:

LED CLU7B2
FWHM / FWTM 6.0° / 19.0°
Efficiency 80 %
Peak intensity 21.7 cd/lm
LEDs/each optic 1

Light colour White
Required components:
F15255\_HEKLA-SOCKET-C

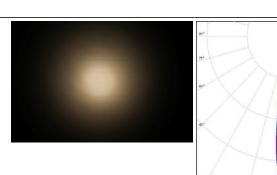






#### CREE - LED

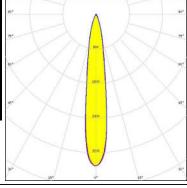
LED CMA1516
FWHM / FWTM 14.0° / 36.0°
Efficiency 72 %
Peak intensity 5.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15256\_HEKLA-SOCKET-D



#### CREE + LED

LED CMT14xx
FWHM / FWTM 15.0° / 37.0°
Efficiency 48 %
Peak intensity 3.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255\_HEKLA-SOCKET-C



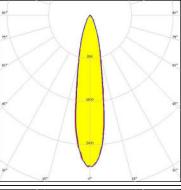


## LUMILEDS

LED LUXEON CX Plus CoB L08 (Gen2)

FWHM / FWTM 21.0° / 50.0°
Efficiency 67 %
Peak intensity 2.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
Bender Wirth: 637a Hekla



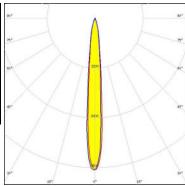


## **MUMILEDS**

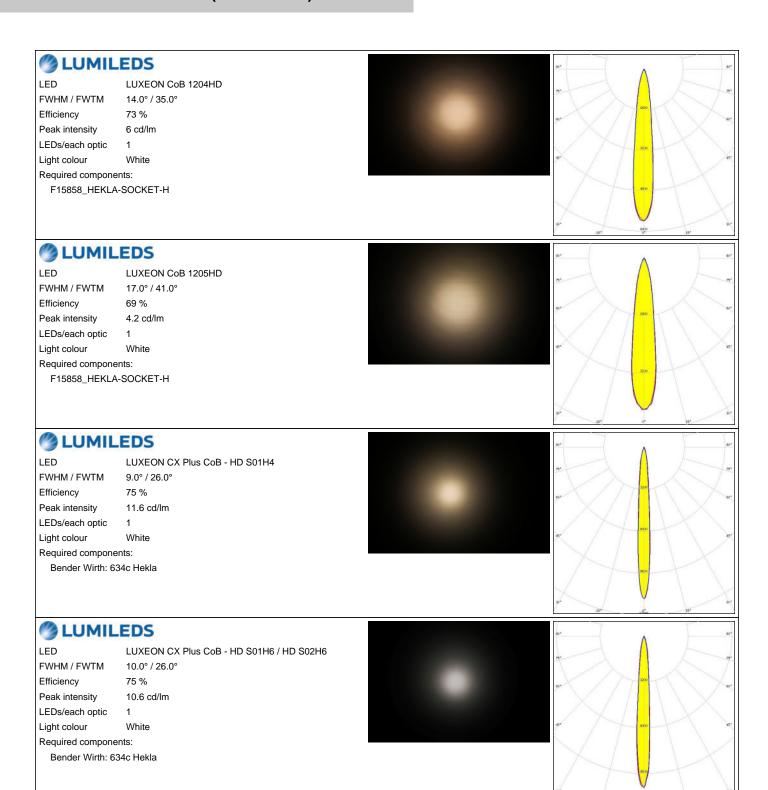
LED LUXEON CoB 1202HD

FWHM / FWTM 10.0° / 28.0°
Efficiency 75 %
Peak intensity 9.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15848\_HEKLA-SOCKET-G







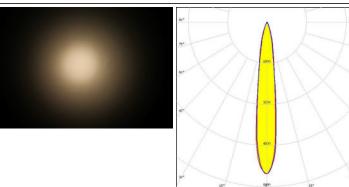






LUXEON CX Plus CoB - HD S04H9

 $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 14.0° / 36.0° Efficiency 72 % Peak intensity 5.9 cd/lm LEDs/each optic Light colour White Required components: Bender Wirth: 634c Hekla



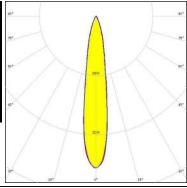
## LUMILEDS

LED LUXEON CX Plus CoB L04 / L05 (Gen2)

FWHM / FWTM 18.0° / 42.0° Efficiency 69 % Peak intensity 4.1 cd/lm LEDs/each optic 1 White Light colour Required components:

Bender Wirth: 637a Hekla



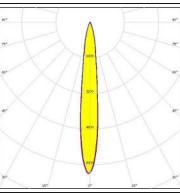


## LUMILEDS

LED LUXEON CX Plus CoB M02 / M03 (Gen2)

 $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 13.0° / 33.0° Efficiency 72 % Peak intensity 6.8 cd/lm LEDs/each optic Light colour White Required components: Bender Wirth: 641a Hekla





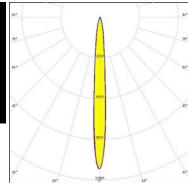
## LUMILEDS

LED LUXEON CX Plus CoB S01 (Gen2)

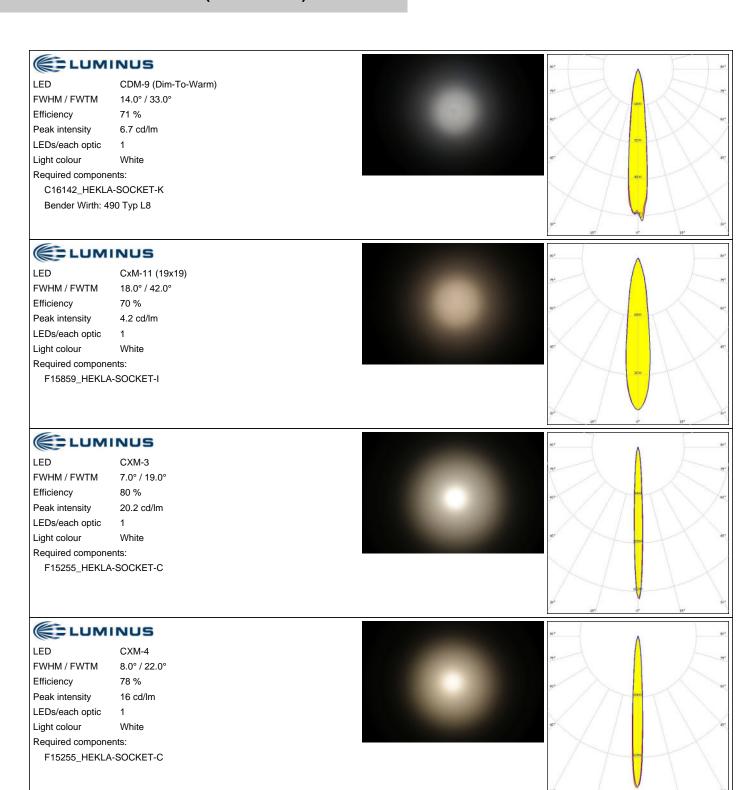
FWHM / FWTM 9.0° / 25.0° Efficiency 76 % Peak intensity 11.9 cd/lm LEDs/each optic White Light colour

Required components: Bender Wirth: 634c Hekla











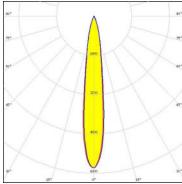


LED CxM-9 (13.5x13.5)
FWHM / FWTM 15.0° / 35.0°
Efficiency 74 %

Peak intensity 6.2 cd/lm LEDs/each optic 1 Light colour White

F15255\_HEKLA-SOCKET-C





## **WNICHIA**

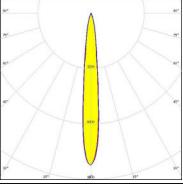
Required components:

LED NJCWL024Z-V1MT: COB L-Type Tunable White

FWHM / FWTM 12.0° / 29.0°
Efficiency 71 %
Peak intensity 8.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:

C16142\_HEKLA-SOCKET-K Bender Wirth: 497 Typ L8





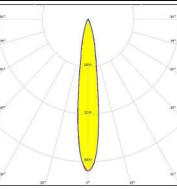
#### **WNICHIA**

LED NVCWJ024Z-V1MT: COB J-Type Tunable White

FWHM / FWTM 16.0° / 37.0°
Efficiency 69 %
Peak intensity 5.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:

C16142\_HEKLA-SOCKET-K Bender Wirth: 498 Typ L8





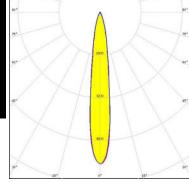
## **PHILIPS**

LED Fortimo SLM L09 CoB

FWHM / FWTM 15.0° / 36.0°
Efficiency 72 %
Peak intensity 5.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:

F15858\_HEKLA-SOCKET-H





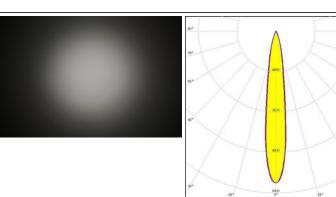


# **SAMSUNG**

LED LC003D / LC006D / LC009D / LC013D

FWHM / FWTM 15.0° / 36.0°
Efficiency 74 %
Peak intensity 6 cd/lm
LEDs/each optic 1
Light colour White
Required components:

F15255\_HEKLA-SOCKET-C



## SAMSUNG

 LED
 LC010C G2

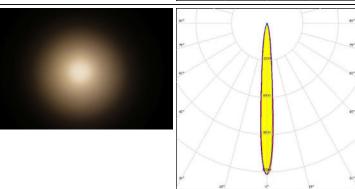
 FWHM / FWTM
 9.0° / 24.0°

 Efficiency
 77 %

 Peak intensity
 13.1 cd/lm

LEDs/each optic 1
Light colour White
Required components:

F15255\_HEKLA-SOCKET-C



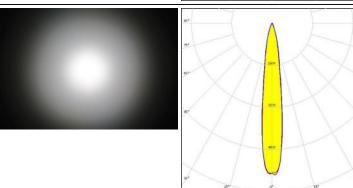
# SAMSUNG

LED LC010T (Tunable White)

FWHM / FWTM 15.0° / 35.0° Efficiency 71 % Peak intensity 5.8 cd/lm LEDs/each optic 1

Light colour Tunable White

Required components: C16142\_HEKLA-SOCKET-K Bender Wirth: 501 Typ L8

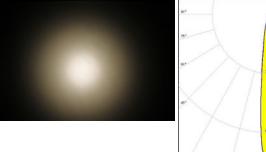


## SAMSUNG

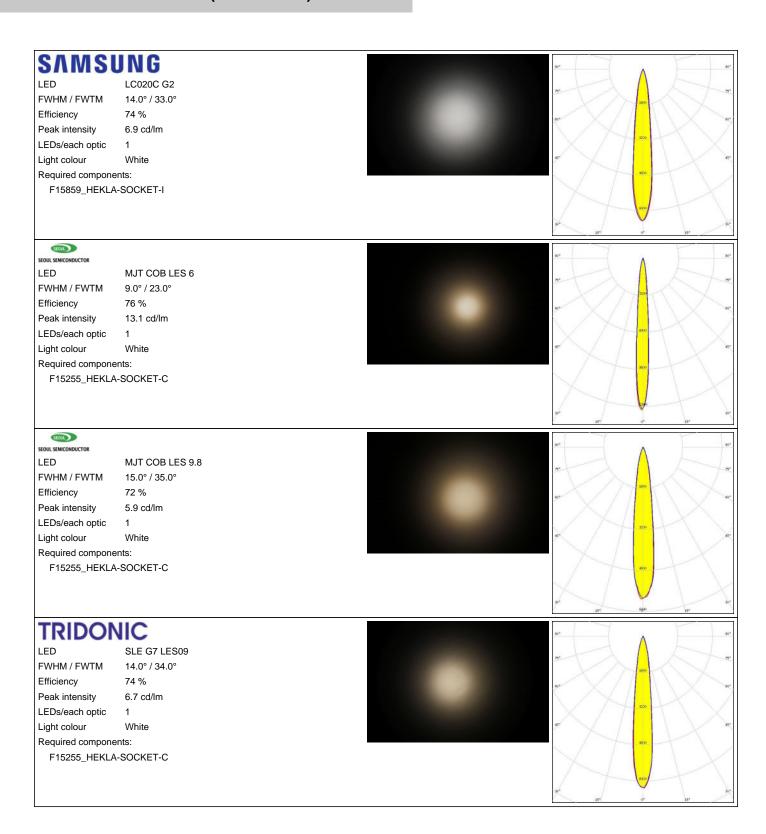
LED LC020C
FWHM / FWTM 12.0° / 31.0°
Efficiency 76 %
Peak intensity 8.2 cd/lm
LEDs/each optic 1

F15848\_HEKLA-SOCKET-G

Light colour White Required components:





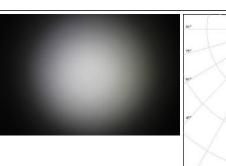


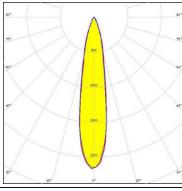


# **TRIDONIC**

SLE G7 LES13  $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 20.0° / 45.0° Efficiency 69 % Peak intensity 3.5 cd/lm LEDs/each optic Light colour White

Required components: F15859\_HEKLA-SOCKET-I



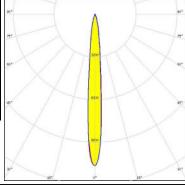


# **XICATO**

LED XOB 6 mm FWHM / FWTM 10.0° / 26.0° Efficiency 76 % Peak intensity 11.4 cd/lm LEDs/each optic 1 White Light colour

Required components: F15255\_HEKLA-SOCKET-C

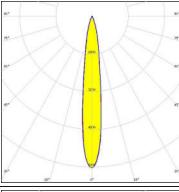




## **XICATO**

XOB 9.8 mm  $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 14.0° / 34.5 + 34.0°

Efficiency 74 % Peak intensity 6.4 cd/lm LEDs/each optic Light colour White Required components: F15255\_HEKLA-SOCKET-C



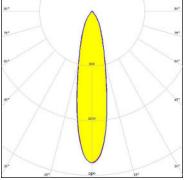
# **XICATO**

XTM - 19mm LES FWHM / FWTM 23.0° / 60.0° Efficiency 66 % Peak intensity 2.2 cd/lm LEDs/each optic

White Light colour Required components:

C16058\_XTM-ADAPTER-50-C





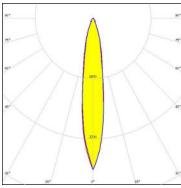


## PHOTOMETRIC DATA (SIMULATED):

#### bridgelux

LED VERO13
FWHM / FWTM 16.0° / 42.0°
Efficiency 70 %
Peak intensity 4 cd/lm
LEDs/each optic 1
Light colour White
Required components:

C16142\_HEKLA-SOCKET-K

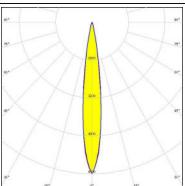


## **CITIZEN**

LED CLL02x/CLU02x (LES10)

FWHM / FWTM 14.0° / 26.0°
Efficiency 50 %
Peak intensity 6.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:

F15859\_HEKLA-SOCKET-I C16752\_CARMEN-70-SHD

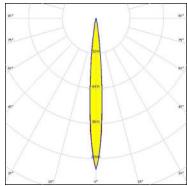


## **CITIZEN**

LED CLU700/701/702
FWHM / FWTM 10.0° / 19.0°
Efficiency 54 %
Peak intensity 13.8 cd/lm
LEDs/each optic 1
Light colour White

Required components:

F15255\_HEKLA-SOCKET-C C16752\_CARMEN-70-SHD



# **CITIZEN**

 LED
 CLU712

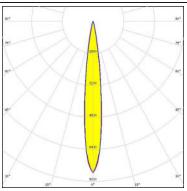
 FWHM / FWTM
 12.0° / 24.0°

 Efficiency
 51 %

 Peak intensity
 7.6 cd/lm

LEDs/each optic 1
Light colour White
Required components:

F15859\_HEKLA-SOCKET-I C16752\_CARMEN-70-SHD





## PHOTOMETRIC DATA (SIMULATED):

# **CITIZEN**

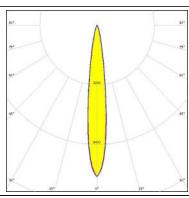
LED CLU712 FWHM / FWTM 14.0° / 30.0°

Efficiency 75 %
Peak intensity 8.1 cd/lm

LEDs/each optic 1
Light colour White

Required components:

F15859\_HEKLA-SOCKET-I



## **CITIZEN**

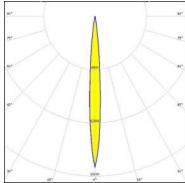
LED CLU7A2 (LES 4.2mm)

FWHM / FWTM 8.0° / 16.0°
Efficiency 55 %
Peak intensity 18.2 cd/lm

LEDs/each optic 1 Light colour White

Required components:

F15255\_HEKLA-SOCKET-C C16752\_CARMEN-70-SHD



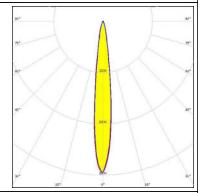
#### CREE + LED

LED CXA/B 15xx FWHM / FWTM 12.9° / 28.4°

Efficiency 0 %
Peak intensity 9.5 cd/lm
LEDs/each optic 1

Light colour White Required components:

F15256\_HEKLA-SOCKET-D



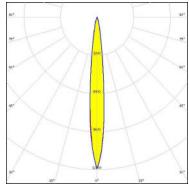
## **WNICHIA**

LED COB T-Type FWHM / FWTM 11.0° / 24.0°

Efficiency 78 % Peak intensity 12.7 cd/lm

LEDs/each optic 1
Light colour White
Required components:

F15848\_HEKLA-SOCKET-G





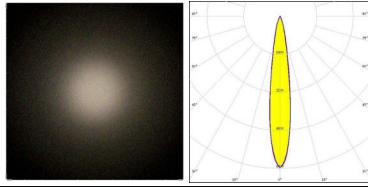
## PHOTOMETRIC DATA (SIMULATED):

# SAMSUNG

LED LC003D / LC006D / LC009D / LC013D

FWHM / FWTM 16.0° / 34.0°
Efficiency 73 %
Peak intensity 6.4 cd/lm
LEDs/each optic 1
Light colour White

Required components: F17435\_HEKLA-G2-C

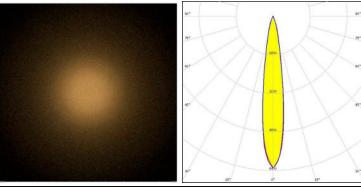


# **SAMSUNG**

LED LC003D / LC006D / LC009D / LC013D

FWHM / FWTM 16.0° / 34.0°
Efficiency 73 %
Peak intensity 6.3 cd/lm
LEDs/each optic 1
Light colour White

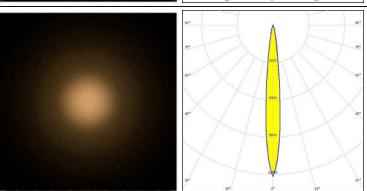
Required components: F17435\_HEKLA-G2-C



# **SAMSUNG**

LED LC010C
FWHM / FWTM 11.0° / 24.0°
Efficiency 78 %
Peak intensity 13 cd/lm
LEDs/each optic 1
Light colour White

Required components: F17435\_HEKLA-G2-C





# PRODUCT DATASHEET CP15774\_CARMEN-S-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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#### 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