

#### **BARBARA-G2-S**

~12° spot beam compatible with LEDiL HEKLA

#### **SPECIFICATION:**

Dimensions Ø 70.0 mm

Height 41.9 mm

Fastening socket

ROHS compliant yes ①



#### **MATERIALS:**

ComponentTypeMaterialBARBARA-G2-SReflectorPC

Colour Finish Coating metal

#### **ORDERING INFORMATION:**

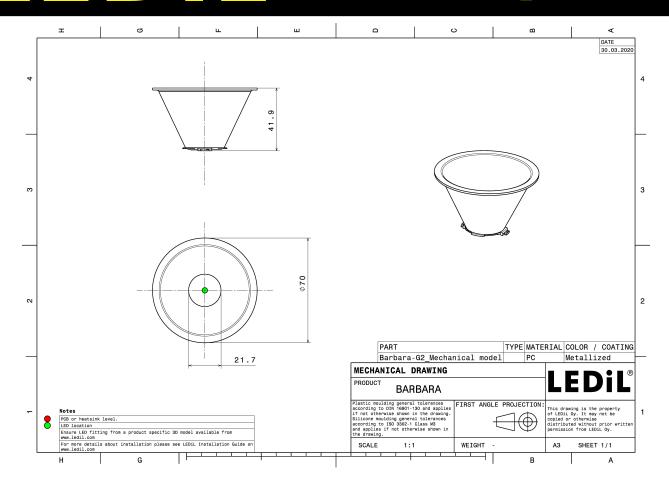
Component

F16363\_BARBARA-G2-S

» Box size: 480 x 280 x 300 mm

Qty in box	MOQ	MPQ	Box weight (kg)
252	90	18	4.6

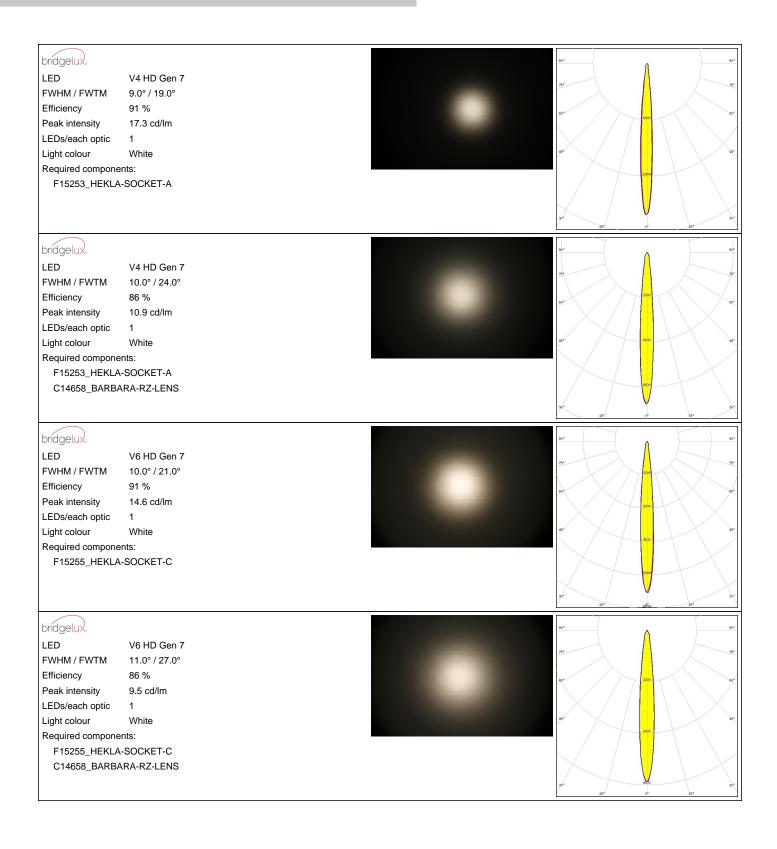
## PRODUCT DATASHEET F16363\_BARBARA-G2-S



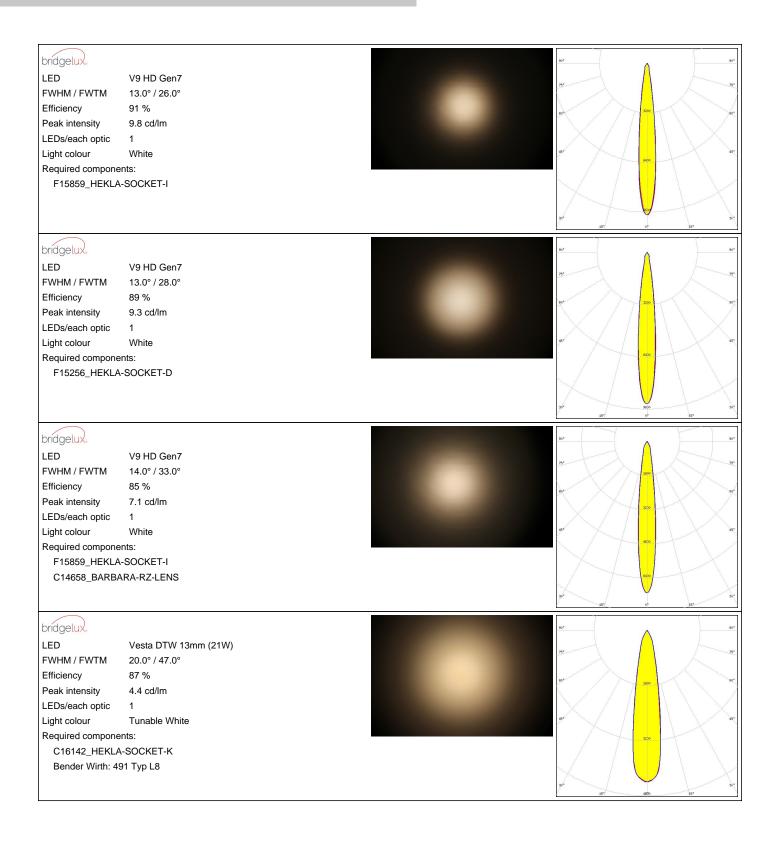
See also our general installation guide: www.ledil.com/installation\_guide

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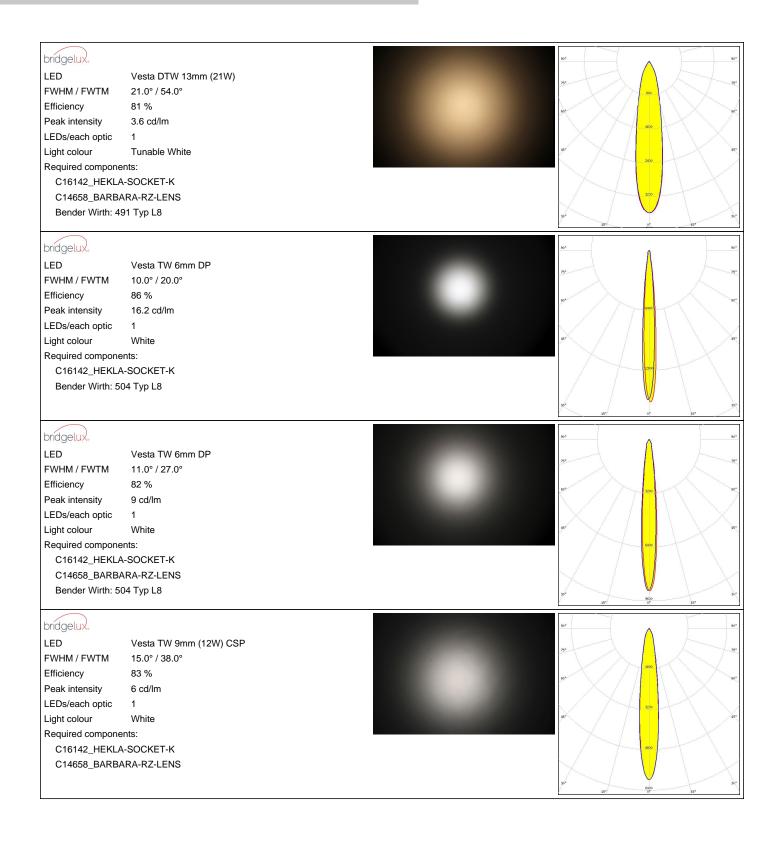












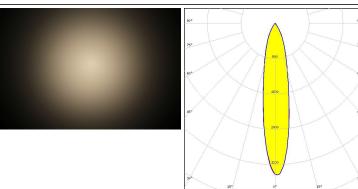


### **CITIZEN**

CLC030 Series (Dim-To-Warm)

 $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 21.0° / 55.0° Efficiency 81 % Peak intensity 3.5 cd/lm LEDs/each optic Light colour White Required components:

C16142\_HEKLA-SOCKET-K C14658\_BARBARA-RZ-LENS Bender Wirth: 436 Typ L8

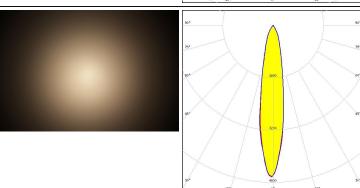


### **CITIZEN**

LED CLC030 Series (Dim-To-Warm)

FWHM / FWTM 18.0° / 47.0° Efficiency 86 % Peak intensity 4.6 cd/lm LEDs/each optic 1 White Light colour Required components:

C16142\_HEKLA-SOCKET-K Bender Wirth: 436 Typ L8

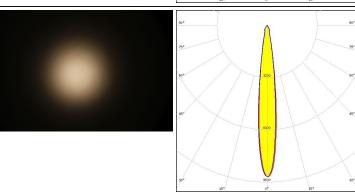


### **CITIZEN**

LED CLL02x/CLU02x (LES10)

 $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 13.0° / 28.0° Efficiency 91 % Peak intensity 9.3 cd/lm LEDs/each optic Light colour White Required components:

F15255\_HEKLA-SOCKET-C



### **CITIZEN**

CLL03x/CLU03x FWHM / FWTM 21.0° / 48.0° Efficiency 91 %

Peak intensity 4.4 cd/lm LEDs/each optic White Light colour Required components:

F15859\_HEKLA-SOCKET-I



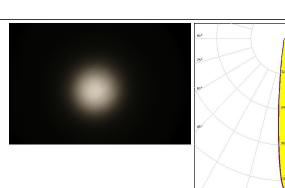


### **CITIZEN**

CLU700/701/702/703

 $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 10.0° / 22.0° Efficiency 90 % Peak intensity 13.6 cd/lm LEDs/each optic Light colour White

F15255\_HEKLA-SOCKET-C



### **CITIZEN**

Required components:

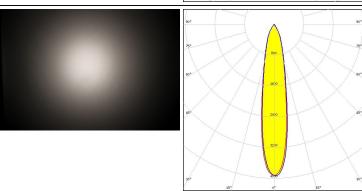
LED LCN-C02B (Tunable White)

FWHM / FWTM 19.0° / 50.0° Efficiency 81 % Peak intensity 3.9 cd/lm LEDs/each optic 1

Tunable White Light colour

Required components:

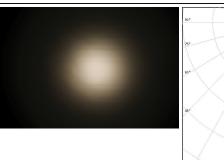
C16142\_HEKLA-SOCKET-K C14658\_BARBARA-RZ-LENS Bender Wirth: 481 Typ L8

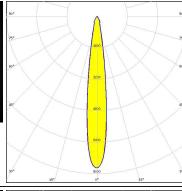


### CREE \$

LED CMT14xx  $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 15.0° / 30.0° Efficiency 90 % Peak intensity 7.7 cd/lm LEDs/each optic Light colour White Required components:

F15255\_HEKLA-SOCKET-C



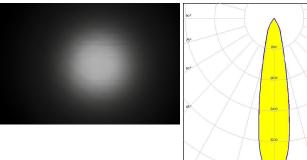


### <u>CR</u>EE <del>\$</del>

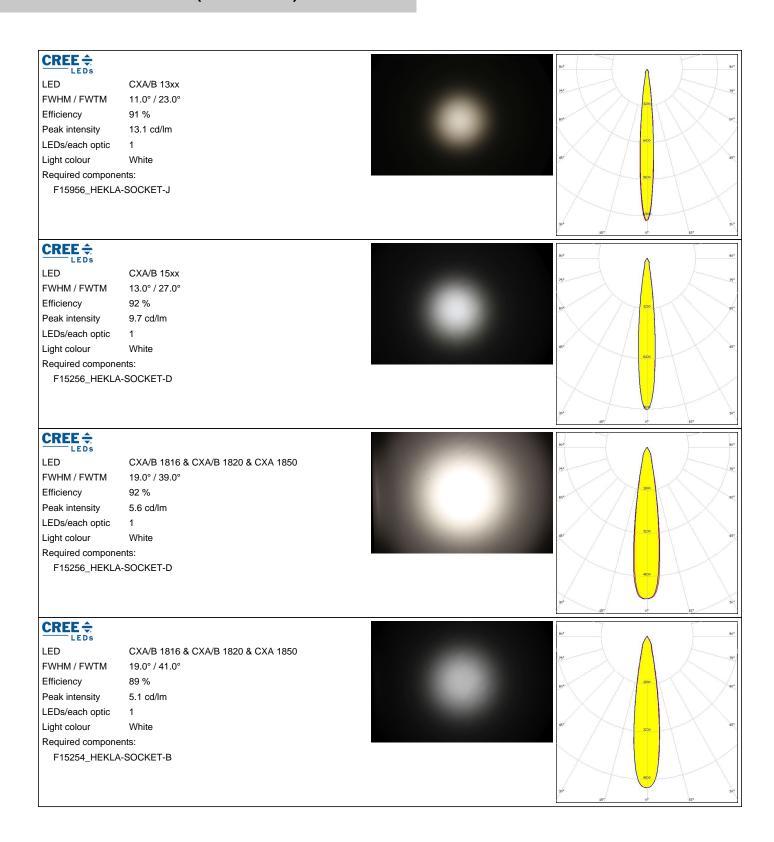
CMT19xx FWHM / FWTM 22.0° / 52.0° Efficiency 90 % Peak intensity 3.9 cd/lm LEDs/each optic White Light colour

F15859\_HEKLA-SOCKET-I

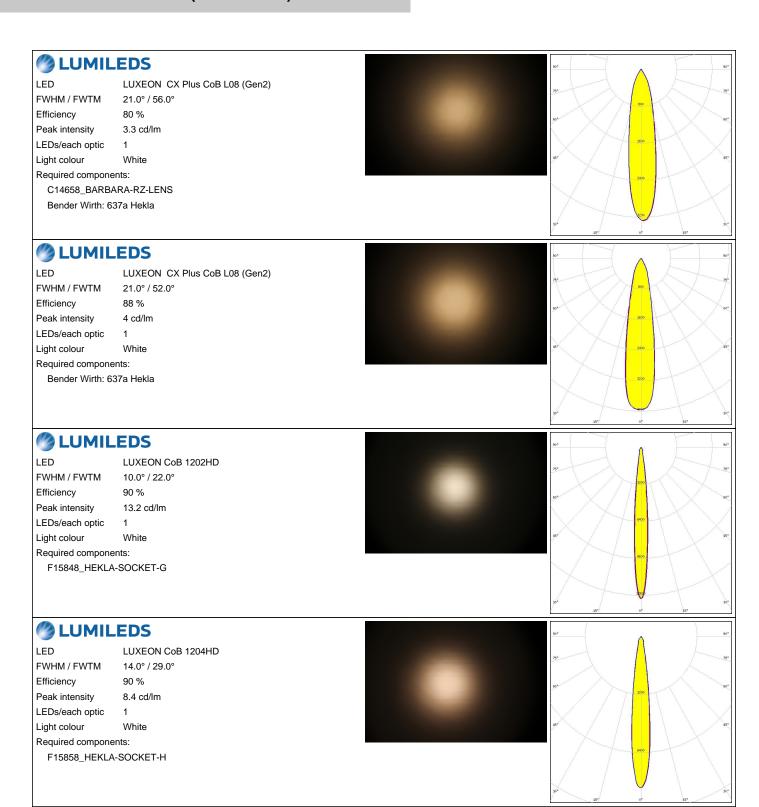
Required components:



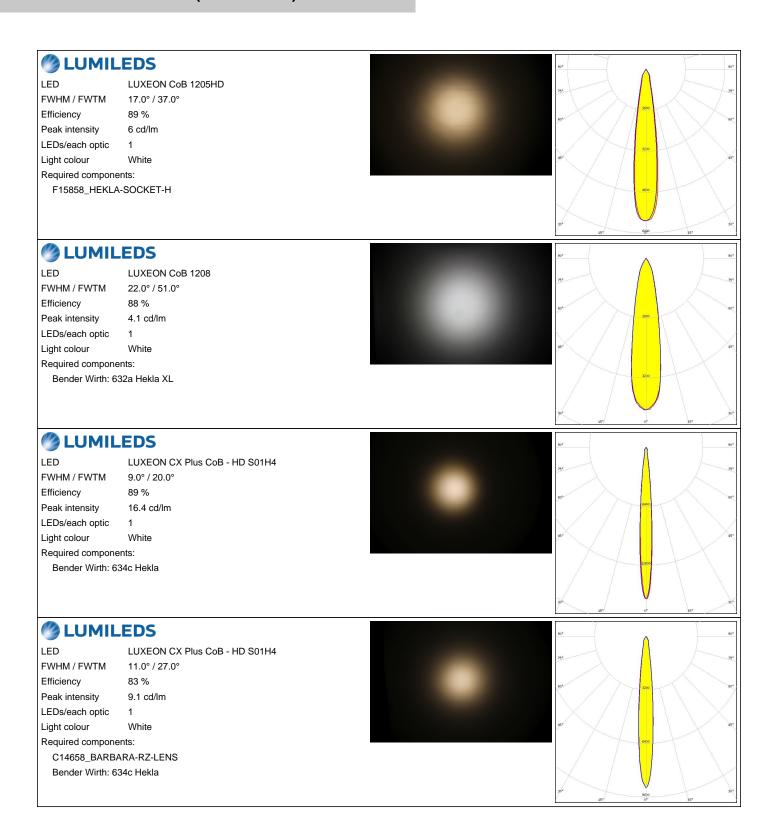




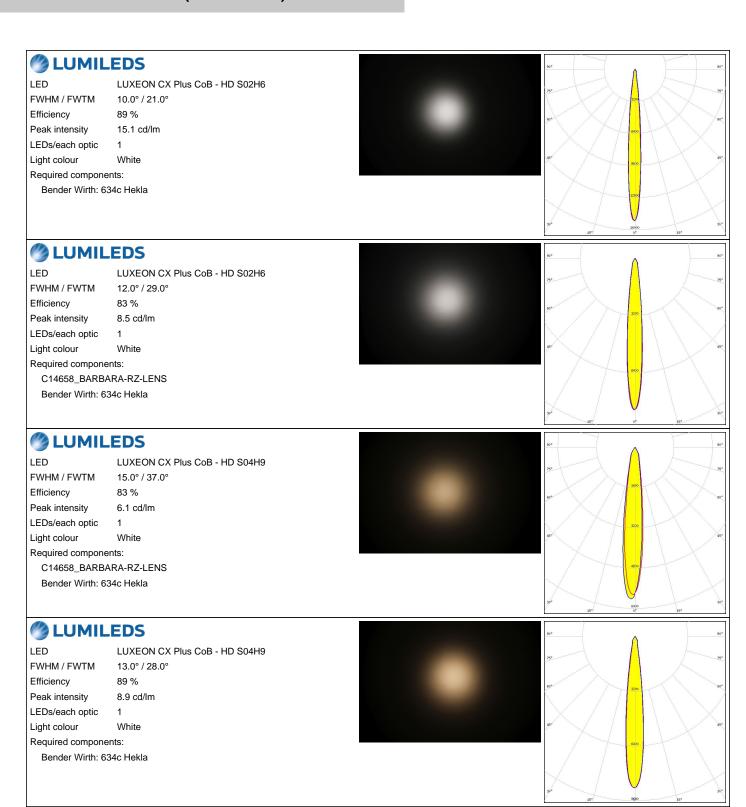




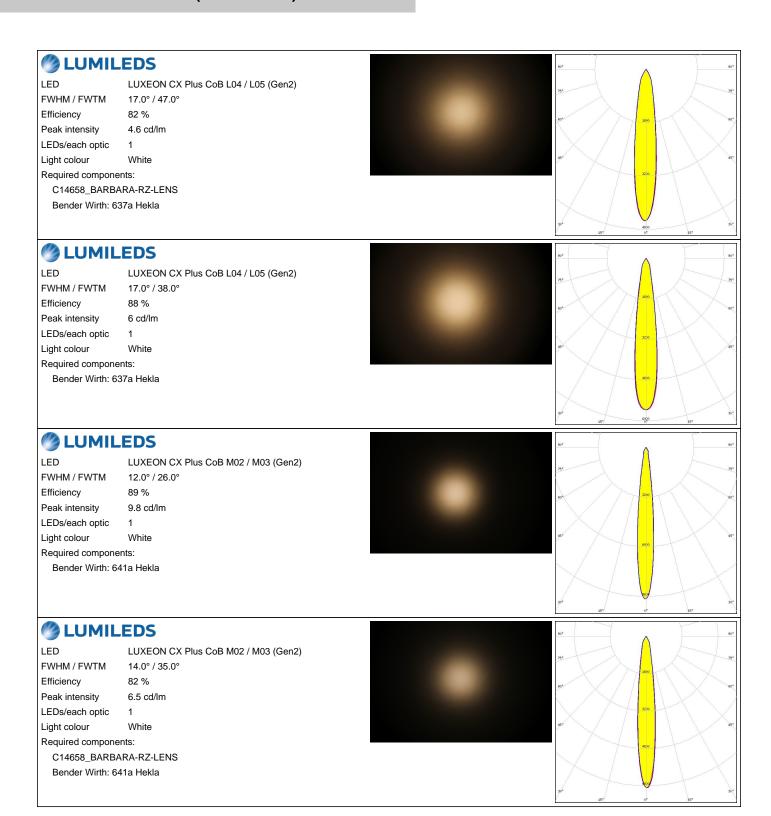




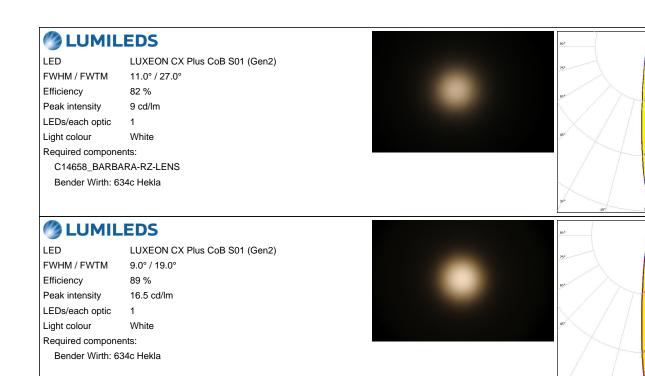










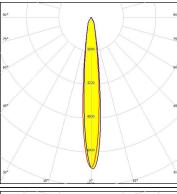


### **MILEDS**

LED LUXEON Fusion 21-up (20x24)

FWHM / FWTM 13.0° / 33.0°
Efficiency 82 %
Peak intensity 7.2 cd/lm
LEDs/each optic 21
Light colour White
Required components:

C16142\_HEKLA-SOCKET-K C14658\_BARBARA-RZ-LENS Bender Wirth: 442 Typ L8



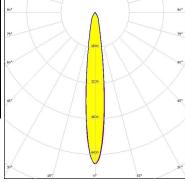
### **PHILIPS**

LED Fortimo SLM L09 CoB

FWHM / FWTM 14.0° / 35.0°
Efficiency 87 %
Peak intensity 6.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:

F15858\_HEKLA-SOCKET-H C14658\_BARBARA-RZ-LENS





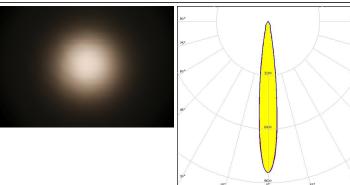


#### PHILIPS

LED Fortimo SLM L09 CoB

FWHM / FWTM 14.0° / 28.0°
Efficiency 91 %
Peak intensity 9 cd/lm
LEDs/each optic 1
Light colour White
Required components:

F15858\_HEKLA-SOCKET-H



#### PHILIPS

LED Fortimo SLM L13 CoB

FWHM / FWTM 20.0° / 48.0°

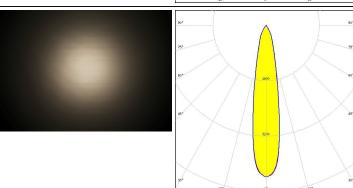
Efficiency 87 %

Peak intensity 4.4 cd/lm

LEDs/each optic 1

Light colour White

C16142\_HEKLA-SOCKET-K Bender Wirth: 432 Typ L8



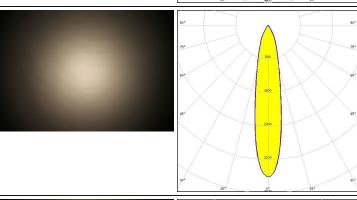
### PHILIPS

Required components:

LED Fortimo SLM L13 CoB

FWHM / FWTM 20.0° / 54.0°
Efficiency 82 %
Peak intensity 3.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:

C16142\_HEKLA-SOCKET-K C14658\_BARBARA-RZ-LENS Bender Wirth: 432 Typ L8



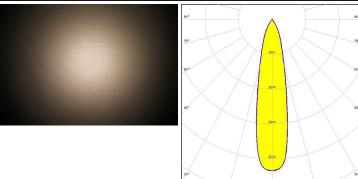
### PHILIPS

Required components:

LED Fortimo SLM L15 CoB

FWHM / FWTM 23.0° / 55.0°
Efficiency 86 %
Peak intensity 3.5 cd/lm
LEDs/each optic 1
Light colour White

C16142\_HEKLA-SOCKET-K Bender Wirth: 432 Typ L8



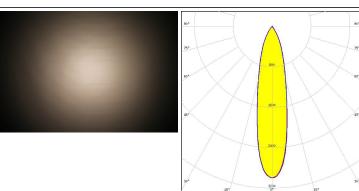


#### **PHILIPS**

LED Fortimo SLM L15 CoB

FWHM / FWTM 23.0° / 57.0°
Efficiency 81 %
Peak intensity 3 cd/lm
LEDs/each optic 1
Light colour White
Required components:

C16142\_HEKLA-SOCKET-K C14658\_BARBARA-RZ-LENS Bender Wirth: 432 Typ L8

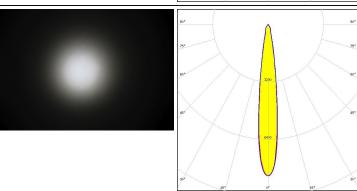


### SAMSUNG

LED LC003D / LC006D / LC009D / LC013D

FWHM / FWTM 14.0° / 29.0°
Efficiency 90 %
Peak intensity 8.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:

F15255\_HEKLA-SOCKET-C

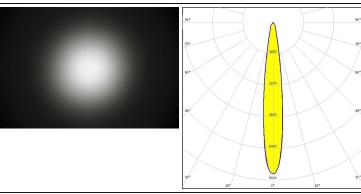


### SAMSUNG

LED LC003D / LC006D / LC009D / LC013D

FWHM / FWTM 15.0° / 31.0°
Efficiency 90 %
Peak intensity 7.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:

F15255\_HEKLA-SOCKET-C



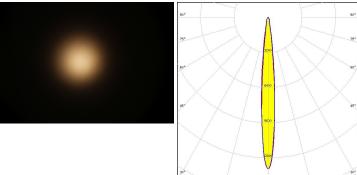
### **SAMSUNG**

LED LC010C G2
FWHM / FWTM 10.0° / 22.0°
Efficiency 90 %

Peak intensity 13.8 cd/lm
LEDs/each optic 1
Light colour White

F15255\_HEKLA-SOCKET-C

Required components:





### **SAMSUNG**

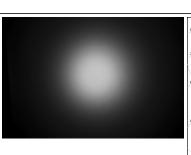
LC020T (Tunable white)

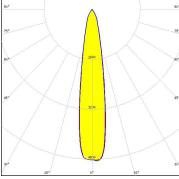
FWHM / FWTM 19.0° / 44.0° Efficiency 87 % Peak intensity 4.9 cd/lm LEDs/each optic

Light colour Tunable White

Required components:

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





### **SAMSUNG**

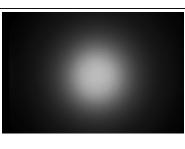
LED LC020T (Tunable white)

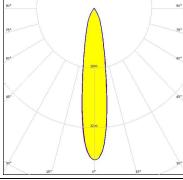
FWHM / FWTM 19.0° / 50.0° Efficiency 82 % Peak intensity 4.1 cd/lm LEDs/each optic 1

Tunable White Light colour

Required components:

C16142\_HEKLA-SOCKET-K C14658\_BARBARA-RZ-LENS Bender Wirth: 501 Typ L8





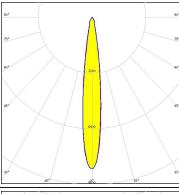
### TRIDONIC

LED SLE G7 LES09 FWHM / FWTM 14.0° / 29.0°

Efficiency 92 % Peak intensity 8.7 cd/lm LEDs/each optic Light colour White Required components:

F15255\_HEKLA-SOCKET-C





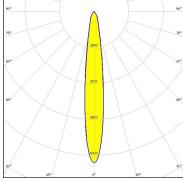
### **TRIDONIC**

SLE G7 LES09 FWHM / FWTM 14.0° / 35.0°

Efficiency 88 % Peak intensity 6.7 cd/lm LEDs/each optic White Light colour Required components:

F15255\_HEKLA-SOCKET-C C14658\_BARBARA-RZ-LENS

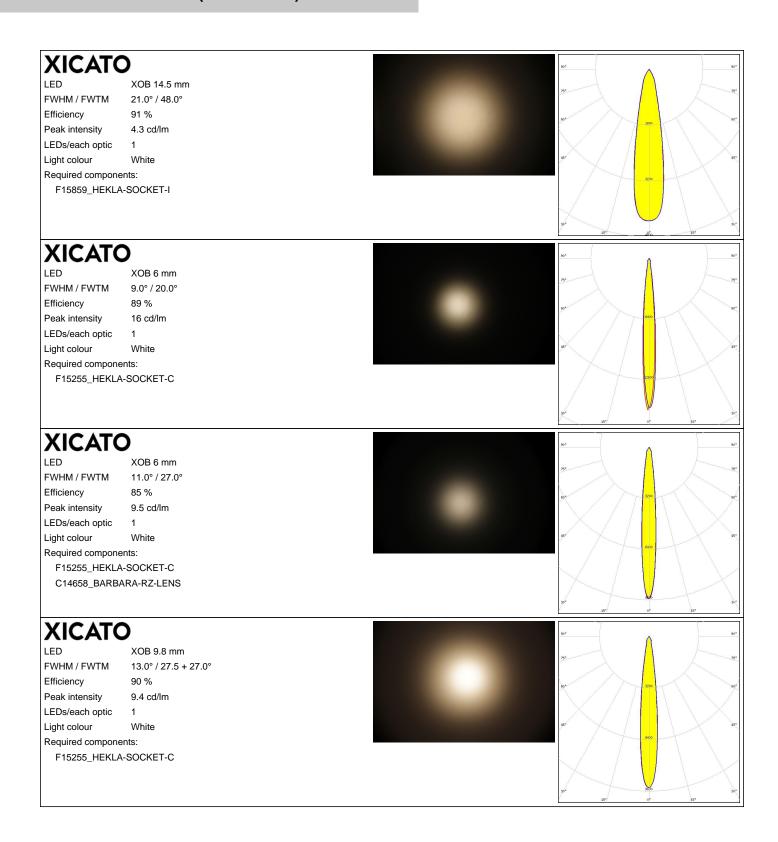






#### **TRIDONIC** SLE G7 LES13 $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 20.0° / 45.0° Efficiency 89 % Peak intensity 4.6 cd/lm LEDs/each optic Light colour White Required components: F15859\_HEKLA-SOCKET-I **TRIDONIC** LED SLE G7 LES13 FWHM / FWTM 20.0° / 43.0° Efficiency 92 % Peak intensity 5 cd/lm LEDs/each optic 1 White Light colour Required components: F15859\_HEKLA-SOCKET-I TRIDONIC LED SLE G7 LES13 $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 20.0° / 54.0° Efficiency 82 % Peak intensity 3.7 cd/lm LEDs/each optic Light colour White Required components: F15859\_HEKLA-SOCKET-I C14658\_BARBARA-RZ-LENS **TRIDONIC** SLE G7 LES15 FWHM / FWTM 23.0° / 53.0° Efficiency 89 % Peak intensity 3.8 cd/lm LEDs/each optic White Light colour Required components: F15859\_HEKLA-SOCKET-I





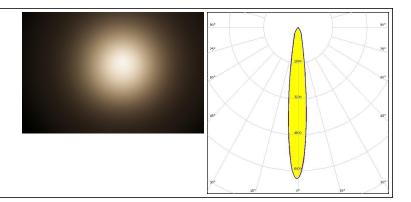


# XICATO

LED XOB 9.8 mm FWHM / FWTM 14.0° / 35.5 + 34.5°

Efficiency 86 %
Peak intensity 6.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:

F15255\_HEKLA-SOCKET-C C14658\_BARBARA-RZ-LENS





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



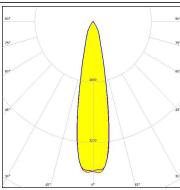
 LED
 V13 Gen 8

 FWHM / FWTM
 22.0° / 50.0°

 Efficiency
 88 %

Peak intensity 4 cd/lm LEDs/each optic 1 Light colour White

Required components: F17438\_HEKLA-G2-I



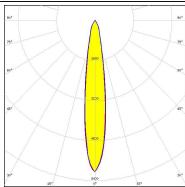
#### bridgelux

LED Vesta DTW 15mm (33W)

FWHM / FWTM 16.0° / 38.0°
Efficiency 86 %
Peak intensity 6.1 cd/lm
LEDs/each optic 1
Light colour White

C16142\_HEKLA-SOCKET-K Bender Wirth: 491 Typ L8

Required components:

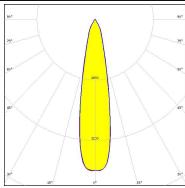


### CREE \$

LED CMA1840 FWHM / FWTM 22.0° / 50.0°

Efficiency 87 %
Peak intensity 4 cd/lm
LEDs/each optic 1
Light colour White

Required components: Bender Wirth: 637a Hekla



### CREE \$

 LED
 CMU15xx

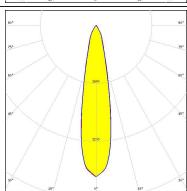
 FWHM / FWTM
 22.0° / 49.0°

 Efficiency
 88 %

 Peak intensity
 4.2 cd/lm

LEDs/each optic 1
Light colour White
Required components:

F17438\_HEKLA-G2-I





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



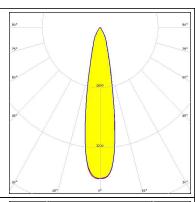
LED LUXEON CoB 1208

 $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 21.0° / 49.0° Efficiency 86 % Peak intensity 4.1 cd/lm

LEDs/each optic Light colour White

Required components:

C16142\_HEKLA-SOCKET-K



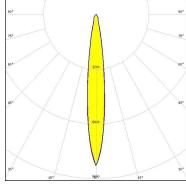
### **WNICHIA**

LED COB L-Type (LES 11)

FWHM / FWTM 18.0° / 38.0° Efficiency 89 % Peak intensity 5.7 cd/lm LEDs/each optic 1 White Light colour

Required components:

F15858\_HEKLA-SOCKET-H



#### **WNICHIA**

LED COB L-Type (LES 9)

 $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 14.0° / 29.0° Efficiency 89 % Peak intensity 8.9 cd/lm

LEDs/each optic 1 Light colour White Required components:

F15858\_HEKLA-SOCKET-H



### PRODUCT DATASHEET F16363\_BARBARA-G2-S

#### **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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## Local sales and technical support

www.ledil.com/ where\_to\_buy

#### **Shipping locations**

Salo, Finland Hong Kong, China

#### **Distribution Partners**

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