

## **BARBARA-S-PF**

~15° spot beam

## **TECHNICAL SPECIFICATIONS:**

**Dimensions** Ø 70.0 mm Height 41.7 mm Fastening socket **ROHS** compliant yes 🕕

#### **MATERIAL SPECIFICATIONS:**

Component **Type** Material **BARBARA-S-PF** PC Reflector



Colour **Finish** Coating metal **HMDS** 

#### **ORDERING INFORMATION:**

Component

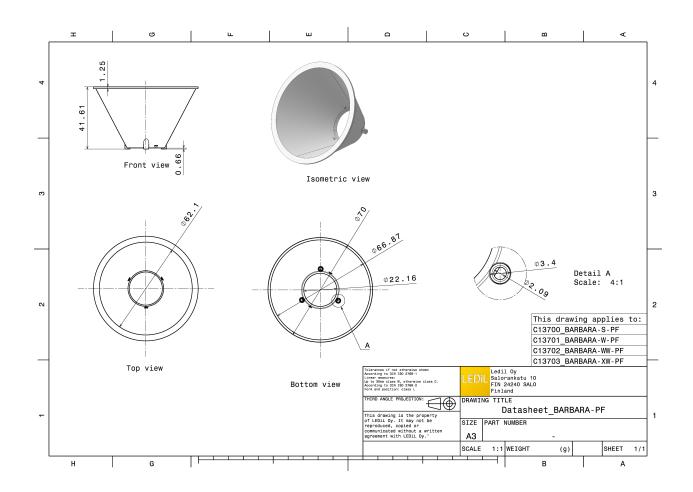
F13700\_BARBARA-S-PF

» Box size: 480 x 280 x 300 mm

Qty in box MOQ MPQ Box weight (kg)

288 6.1 90 18





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### PHOTOMETRIC DATA (MEASURED):

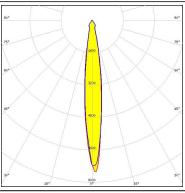
#### bridgelux

LED V10 Gen7 **FWHM** 14.0° Efficiency 88 % Peak intensity 7.5 cd/lm LEDs/each optic 1 Light colour White Required components:

C13709\_PF-SOCKET-VERO13-18

Bender Wirth: 434 Typ L1





#### bridgelux.

LED V15 Gen6 **FWHM** 18.0° 92 % Efficiency Peak intensity 4.8 cd/lm LEDs/each optic 1 White Light colour Required components:

C13709\_PF-SOCKET-VERO13-18

Bender Wirth: 456 Typ L2



#### bridgelux

LED V8 Gen6 **FWHM** 13.0° Efficiency 86 % Peak intensity 10.6 cd/lm LEDs/each optic 1

Light colour White Required components:

C13709\_PF-SOCKET-VERO13-18

Bender Wirth: 460 Typ L1

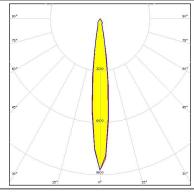


## bridgelux.

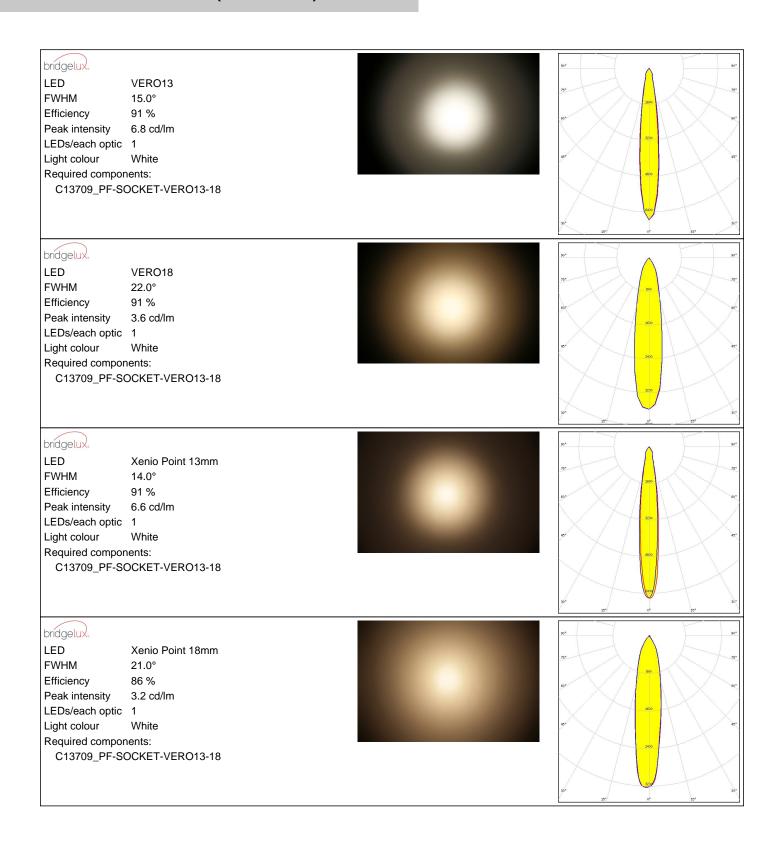
LED VERO10 **FWHM** 13.0° Efficiency 90 % Peak intensity 9.3 cd/lm LEDs/each optic 1 White Light colour Required components:

C13708\_PF-SOCKET-VERO10





## PHOTOMETRIC DATA (MEASURED):



## PHOTOMETRIC DATA (MEASURED):

## **CITIZEN**

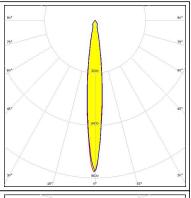
LED CLL02x/CLU02x (LES10)

**FWHM** 12.0° 89 % Efficiency Peak intensity 9.2 cd/lm LEDs/each optic 1 Light colour White Required components:

C13709\_PF-SOCKET-VERO13-18

Bender Wirth: 434 Typ L1





## **CITIZEN**

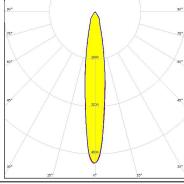
LED CLL03x/CLU03x

**FWHM** 16.0° 88 % Efficiency Peak intensity 5.1 cd/lm LEDs/each optic 1 White Light colour Required components:

C13709\_PF-SOCKET-VERO13-18

Bender Wirth: 433 Typ L1





### CITIZEN

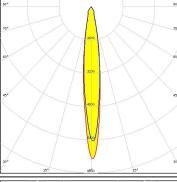
LED CLU720/721 **FWHM** 14.0° Efficiency 87 % Peak intensity 7.3 cd/lm LEDs/each optic 1

Light colour White Required components:

C13709\_PF-SOCKET-VERO13-18

Bender Wirth: 433 Typ L1





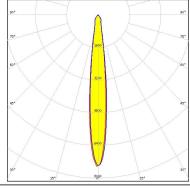
## CREE &

LED CXA/B 15xx **FWHM** 13.0° Efficiency 85 % 7.4 cd/lm Peak intensity LEDs/each optic 1

White Light colour Required components: C13083\_PF-SOCKET

C14658\_BARBARA-RZ-LENS





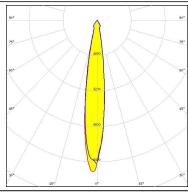
## PHOTOMETRIC DATA (MEASURED):

## CREE 💠

LED CXA/B 15xx
FWHM 15.0°
Efficiency 89 %
Peak intensity 6.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13709 PE-SOCKET-VERO

C13709\_PF-SOCKET-VERO13-18 Bender Wirth: 441 Typ L1



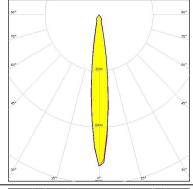


## CREE 🕏

LED CXA/B 15xx
FWHM 14.0°
Efficiency 91 %
Peak intensity 8.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:

C14115\_PF-SOCKET-CXA15-18





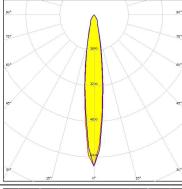
## CREE 🕏

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

FWHM 15.0°
Efficiency 92 %
Peak intensity 6.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:

C14115\_PF-SOCKET-CXA15-18





## CREE \$

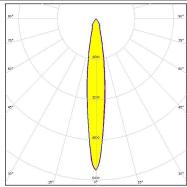
LED CXA/B 1816 & CXA/B 1820 & CXA 1850

FWHM 14.0°
Efficiency 86 %
Peak intensity 6.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:

C13709\_PF-SOCKET-VERO13-18

Bender Wirth: 437 Typ L1







### PHOTOMETRIC DATA (MEASURED):

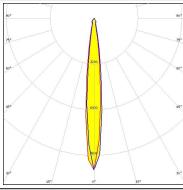


LED LUXEON CoB 1202/1203

FWHM 12.0°
Efficiency 90 %
Peak intensity 10.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:

C14037\_PF-NSX-SOCKET





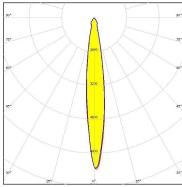
## **MUMILEDS**

LED LUXEON CoB 1202/1203

FWHM 14.0°
Efficiency 88 %
Peak intensity 7.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:

C13709\_PF-SOCKET-VERO13-18 Bender Wirth: 438 Typ L1





## **MUMILEDS**

LED LUXEON CoB 1202s

FWHM 9.0°
Efficiency 90 %
Peak intensity 19.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:

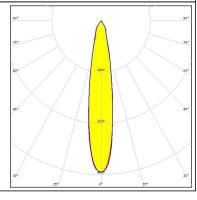
C13761\_PF-SOCKET-CXA15



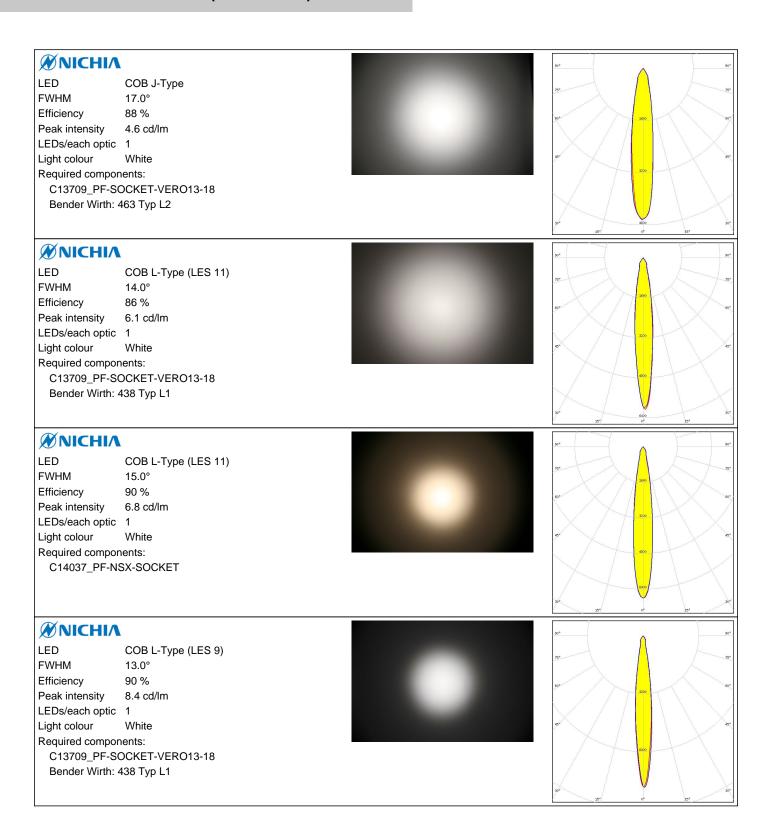
## **WNICHIA**

LED COB J-Type
FWHM 19.0°
Efficiency 91 %
Peak intensity 4.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14037\_PF-NSX-SOCKET





### PHOTOMETRIC DATA (MEASURED):



## PHOTOMETRIC DATA (MEASURED):

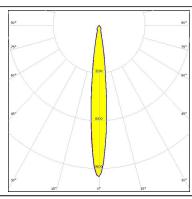
#### **WNICHIA**

LED COB L-Type (LES 9)

**FWHM** 13.0° Efficiency 90 % Peak intensity 10.1 cd/lm LEDs/each optic 1 Light colour White

Required components: C14037\_PF-NSX-SOCKET



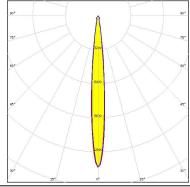


### **WNICHIA**

LED NSCxL036A **FWHM** 11.0° 89 % Efficiency Peak intensity 14.1 cd/lm LEDs/each optic 1

White Light colour Required components: C14037\_PF-NSX-SOCKET



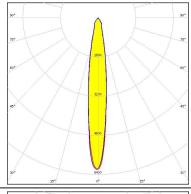


## OSRAM Opto Semiconductors

LED Soleriq S13 **FWHM** 14.0° Efficiency 89 % Peak intensity 6.2 cd/lm LEDs/each optic 1 Light colour White

C13709\_PF-SOCKET-VERO13-18 Bender Wirth: 437 Typ L1





## **SAMSUNG**

Required components:

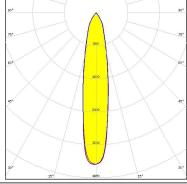
LED LC026B / 033B / 040B

**FWHM** 20.0° Efficiency 88 % 3.7 cd/lm Peak intensity LEDs/each optic 1 White Light colour Required components:

C13709\_PF-SOCKET-VERO13-18

Bender Wirth: 450 Typ L2







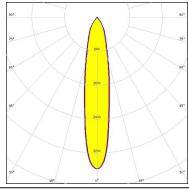
## PHOTOMETRIC DATA (MEASURED):

## **XICATO**

LED XTM - 19mm LES

**FWHM** 20.0° Efficiency 88 % Peak intensity 3.6 cd/lm LEDs/each optic 1 Light colour White Required components: C14636\_XTM-PF-ADAPTER





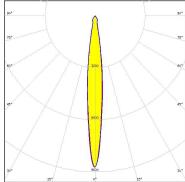
## **XICATO**

LED XTM - 9mm LES

**FWHM** 12.0° Efficiency 90 % Peak intensity 9.3 cd/lm LEDs/each optic 1 White Light colour Required components:

C14636\_XTM-PF-ADAPTER







## PHOTOMETRIC DATA (SIMULATED):

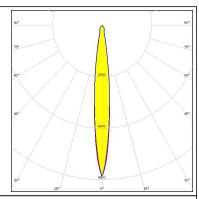
bridgelux

LED V10 Gen7
FWHM 12.0°
Efficiency 91 %
Peak intensity 9.4 cd/lm
LEDs/each optic 1
Light colour White

Required components:

C13709\_PF-SOCKET-VERO13-18

Bender Wirth: 486 Typ L1



bridgelux.

LED VERO10
FWHM 13.0°
Efficiency 0 %
LEDs/each optic 1
Light colour White
Required components:

bridgelux

LED VERO13
FWHM 15.0°
Efficiency 0 %
LEDs/each optic 1
Light colour White
Required components:

bridgelux.

LED VERO18
FWHM 21.0°
Efficiency 0 %
LEDs/each optic 1
Light colour White
Required components:



### PHOTOMETRIC DATA (SIMULATED):

## CREE ÷

LED CXA/B 15xx
FWHM 12.0°
Efficiency 0 %
LEDs/each optic 1
Light colour White
Required components:

## **MILEDS**

LED LUXEON CoB Compact

FWHM 9.0° Efficiency 90 % Peak intensity 19.6 cd/lm LEDs/each optic 1

Light colour White Required components:

C13761\_PF-SOCKET-CXA15

## LUMINUS

LED CxM-14 (19x19)

FWHM 16.0°
Efficiency 88 %
Peak intensity 5.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:

C13709\_PF-SOCKET-VERO13-18

Bender Wirth: 433 Typ L1

## **ELUMINUS**

LED CxM-9 (13.5x13.5)

FWHM 12.0°
Efficiency 89 %
Peak intensity 9.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:

C13709\_PF-SOCKET-VERO13-18

Bender Wirth: 434 Typ L1

## PHOTOMETRIC DATA (SIMULATED):

## **OSRAM**

LED

Soleriq S15

**FWHM** 20.0°

88 %

Efficiency

Peak intensity

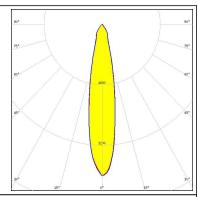
4 cd/lm

LEDs/each optic Light colour White

Required components:

C13709\_PF-SOCKET-VERO13-18

Bender Wirth: 433 Typ L1



## **SAMSUNG**

LED

LC010C

**FWHM** 

9.1°

Efficiency

89 %

Peak intensity

16.3 cd/lm

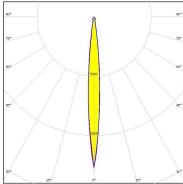
LEDs/each optic

1 White

Light colour

Required components: C13709\_PF-SOCKET-VERO13-18

Bender Wirth: 479 Typ L1



## SAMSUNG

LED

LC020C

**FWHM** 

10.0°

Efficiency

89 %

Peak intensity

12.3 cd/lm

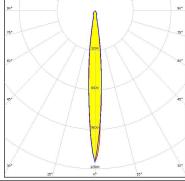
LEDs/each optic Light colour

White

Required components:

C13709\_PF-SOCKET-VERO13-18

Bender Wirth: 479 Typ L1



## **SAMSUNG**

LED

LC040C

**FWHM** 

13.0°

Efficiency

85 %

Peak intensity LEDs/each optic 7.3 cd/lm

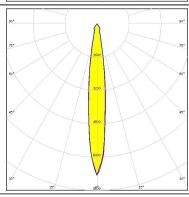
Light colour

White

Required components:

C13709\_PF-SOCKET-VERO13-18

Bender Wirth: 480 Typ L1





## PHOTOMETRIC DATA (SIMULATED):

SEOUL SEMICONDUCTO

LED ZC12/18
FWHM 16.0°
Efficiency 88 %
Peak intensity 5.1 cd/lm
LEDs/each optic 1
Light colour White

Required components:

C13709\_PF-SOCKET-VERO13-18

Bender Wirth: 433 Typ L1

SEOUL SEMICONDUCTOR

LED ZC4/6 FWHM 12.0° Efficiency 89 %

Peak intensity 9.2 cd/lm LEDs/each optic 1

Light colour White Required components:

C13709\_PF-SOCKET-VERO13-18

Bender Wirth: 434 Typ L1



#### **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**

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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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