

BARBARA-S-PF

~15° spot beam

TECHNICAL SPECIFICATIONS:

Dimensions Ø 70.0 mm Height 41.7 mm

Fastening socket
Colour metal

Box size 480 x 280 x 300 mm

Box weight 6.1 kg

Quantity in Box 288 pcs

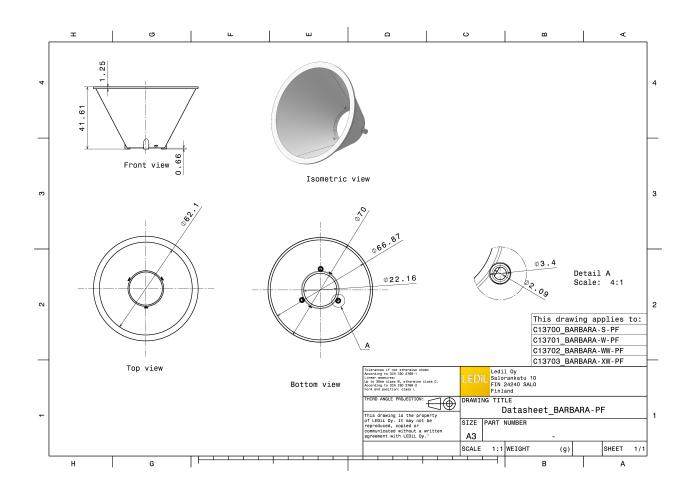
ROHS compliant yes 1



MATERIAL SPECIFICATIONS:

ComponentTypeMaterialColourCoatingBARBARA-S-PFReflectorPCmetalHMDS





2/15

PHOTOMETRIC DATA (MEASURED):

bridgelux

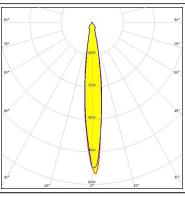
LED V10 Gen7
FWHM 14.0°
Efficiency 88 %
Peak intensity 7.500 cd/lm
LEDs/each optic 1

Light colour White Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 434 Typ L1





bridgelux.

LED V15 Gen6
FWHM 18.0°
Efficiency 92 %
Peak intensity 4.750 cd/lm

LEDs/each optic 1 Light colour White Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 456 Typ L2



bridgelux

LED V8 Gen6
FWHM 13.0°
Efficiency 86 %
Peak intensity 10.600 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°

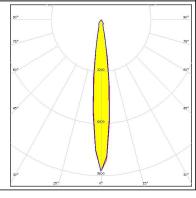
 Efficiency
 90 %

 Peak intensity
 9.300 cd/lm

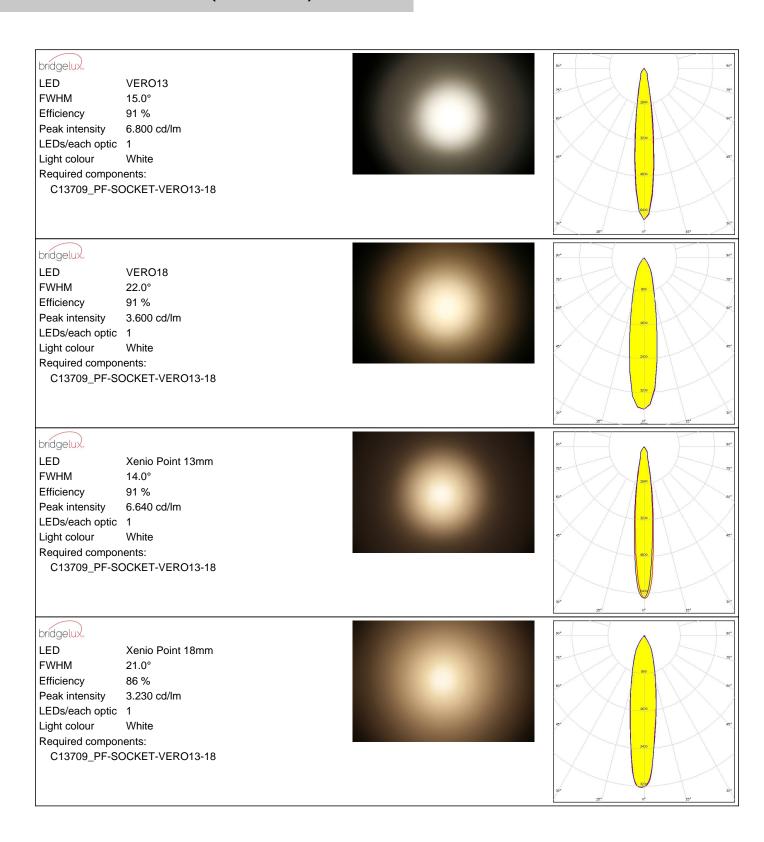
LEDs/each optic 1
Light colour White
Required components:

C13708_PF-SOCKET-VERO10





PHOTOMETRIC DATA (MEASURED):



PHOTOMETRIC DATA (MEASURED):

CITIZEN

LED CLL02x/CLU02x (LES10)

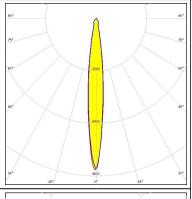
FWHM 12.0° Efficiency 89 % Peak intensity 9.200 cd/lm

LEDs/each optic 1
Light colour White
Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 434 Typ L1





CITIZEN

LED CLL03x/CLU03x

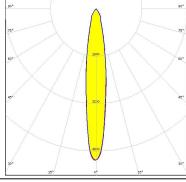
FWHM 16.0°
Efficiency 88 %
Peak intensity 5.100 cd/lm
LEDs/each optic 1

LEDs/each optic 1
Light colour White
Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 433 Typ L1





CITIZEN

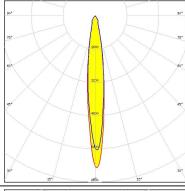
LED CLU720/721
FWHM 14.0°
Efficiency 87 %
Peak intensity 7.300 cd/lm

LEDs/each optic 1
Light colour White
Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 433 Typ L1





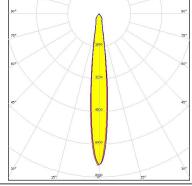
CREE \$

LED CXA/B 15xx FWHM 13.0°
Efficiency 85 % Peak intensity 7.400 cd/lm

LEDs/each optic 1
Light colour White
Required components:
C13083_PF-SOCKET

C14658_BARBARA-RZ-LENS





PHOTOMETRIC DATA (MEASURED):

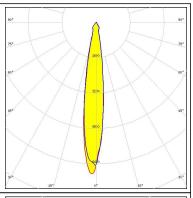
CREE 💠

LED CXA/B 15xx **FWHM** 15.0° 89 % Efficiency Peak intensity 6.900 cd/lm LEDs/each optic 1

Light colour White Required components:

C13709_PF-SOCKET-VERO13-18 Bender Wirth: 441 Typ L1





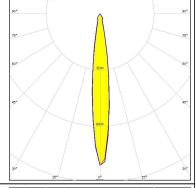
CREE

LED CXA/B 15xx **FWHM** 14.0° 91 % Efficiency Peak intensity 8.600 cd/lm

LEDs/each optic 1 Light colour White Required components:

C14115_PF-SOCKET-CXA15-18





CREE ÷

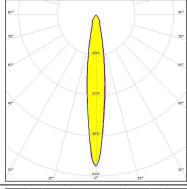
LED CXA/B 1816 & CXA/B 1820 & CXA 1850

FWHM 14.0° Efficiency 86 % Peak intensity 6.100 cd/lm

LEDs/each optic 1 Light colour White Required components:

C13709_PF-SOCKET-VERO13-18 Bender Wirth: 437 Typ L1





CREE ÷

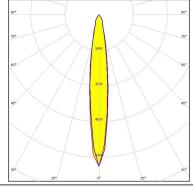
LED CXA/B 1816 & CXA/B 1820 & CXA 1850

FWHM 15.0° Efficiency 92 % Peak intensity 6.800 cd/lm LEDs/each optic 1

Light colour Required components: C14115_PF-SOCKET-CXA15-18

White





PHOTOMETRIC DATA (MEASURED):

MUMILEDS

LED LUXEON CoB 1202/1203

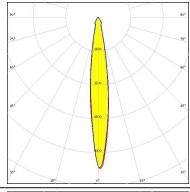
FWHM 14.0°
Efficiency 88 %
Peak intensity 7.300 cd/lm
LEDs/each optic 1

Light colour White Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 438 Typ L1





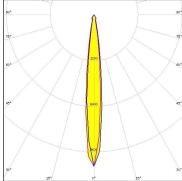
MUMILEDS

LED LUXEON CoB 1202/1203

FWHM 12.0°
Efficiency 90 %
Peak intensity 10.600 cd/lm

LEDs/each optic 1
Light colour White
Required components:
C14037_PF-NSX-SOCKET





MUMILEDS

LED LUXEON CoB 1202s

FWHM 9.0° Efficiency 90 % Peak intensity 19.600 cd/lm

LEDs/each optic 1 Light colour White Required components:

C13761_PF-SOCKET-CXA15

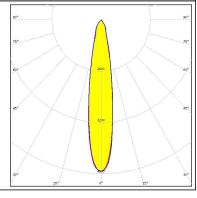


WNICHIA

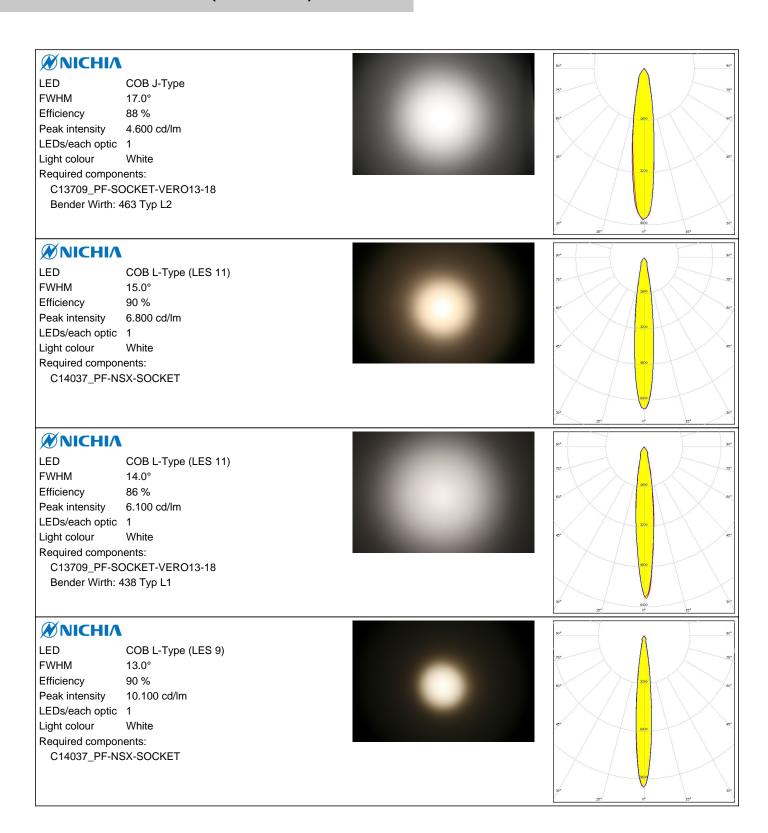
LED COB J-Type
FWHM 19.0°
Efficiency 91 %
Peak intensity 4.730 cd/lm
LEDs/each optic 1

Light colour White
Required components:
C14037_PF-NSX-SOCKET





PHOTOMETRIC DATA (MEASURED):



PHOTOMETRIC DATA (MEASURED):

WNICHIA

LED COB L-Type (LES 9)

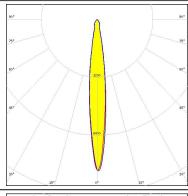
FWHM 13.0° Efficiency 90 % Peak intensity 8.400 cd/lm LEDs/each optic 1

Light colour White Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 438 Typ L1



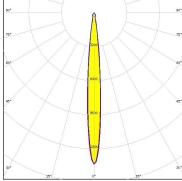


WNICHIA

LED NSCxL036A **FWHM** 11.0° 89 % Efficiency Peak intensity 14.120 cd/lm

LEDs/each optic 1 White Light colour Required components: C14037_PF-NSX-SOCKET





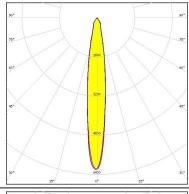
OSRAM Opto Semiconductors

LED Soleriq S13 **FWHM** 14.0° Efficiency 89 % Peak intensity 6.200 cd/lm

LEDs/each optic 1 Light colour White Required components:

C13709_PF-SOCKET-VERO13-18 Bender Wirth: 437 Typ L1





SAMSUNG

LED LC026B / 033B / 040B

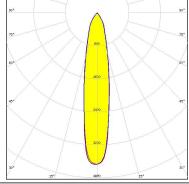
FWHM 20.0° Efficiency 88 % 3.700 cd/lm Peak intensity

LEDs/each optic 1 White Light colour Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 450 Typ L2







PHOTOMETRIC DATA (MEASURED):

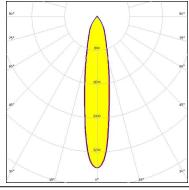
XICATO

LED XTM - 19mm LES

FWHM 20.0°
Efficiency 88 %
Peak intensity 3.600 cd/lm

LEDs/each optic 1
Light colour White
Required components:
C14636_XTM-PF-ADAPTER





XICATO

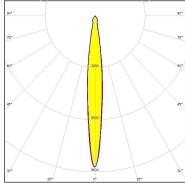
LED XTM - 9mm LES

FWHM 12.0° Efficiency 90 % Peak intensity 9.300 cd/lm

LEDs/each optic 1
Light colour White
Required components:

C14636_XTM-PF-ADAPTER







PHOTOMETRIC DATA (SIMULATED):

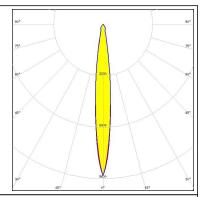
bridgelux

LED V10 Gen7 **FWHM** 12.0° Efficiency 91 % Peak intensity 9.440 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° 0 % Efficiency Peak intensity 0.000 cd/lm

LEDs/each optic 1 White Light colour Required components:

bridgelux

LED VERO13 **FWHM** 15.0° Efficiency 0 % Peak intensity 0.000 cd/lm

LEDs/each optic 1 Light colour White Required components:

bridgelux.

LED VERO18 **FWHM** 21.0° Efficiency 0 % Peak intensity 0.000 cd/lm

LEDs/each optic 1 White Light colour Required components:



PHOTOMETRIC DATA (SIMULATED):

CREE 🕏

 LED
 CXA/B 15xx

 FWHM
 12.0°

 Efficiency
 0 %

 Peak intensity
 0.000 cd/lm

LEDs/each optic 1 Light colour White Required components:

MILEDS

LED LUXEON CoB Compact

FWHM 9.0° Efficiency 90 % Peak intensity 19.600 cd/lm

LEDs/each optic 1 Light colour White Required components:

C13761_PF-SOCKET-CXA15

ELUMINUS

LED CxM-14 (19x19)

FWHM 16.0° Efficiency 88 % Peak intensity 5.130 cd/lm

LEDs/each optic 1
Light colour White
Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 433 Typ L1

LUMINUS

LED CxM-9 (13.5x13.5)

FWHM 12.0° Efficiency 89 % Peak intensity 9.200 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

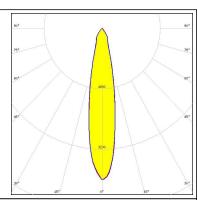
LED Soleriq S15 FWHM 20.0° Efficiency 88 %

Peak intensity 4.013 cd/lm

LEDs/each optic 1 Light colour White Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 433 Typ L1



SAMSUNG

LED LC010C

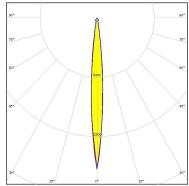
FWHM 9.1° Efficiency 89 %

Peak intensity 16.300 cd/lm

LEDs/each optic 1 Light colour White Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 479 Typ L1



SAMSUNG

LED LC020C

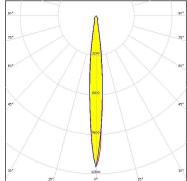
FWHM 10.0° Efficiency 89 %

Peak intensity 12.300 cd/lm

LEDs/each optic 1
Light colour White
Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 479 Typ L1



SAMSUNG

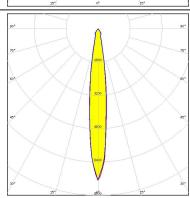
LED LC040C FWHM 13.0°

Efficiency 85 % Peak intensity 7.300 cd/lm

LEDs/each optic 1
Light colour White
Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 480 Typ L1





PHOTOMETRIC DATA (SIMULATED):

SEOUL SENICONDUCTO

 LED
 ZC12/18

 FWHM
 16.0°

 Efficiency
 88 %

 Peak intensity
 5.100 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
 9.200 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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Last update: 24/11/2019 Subject to change without prior notice Published: 02/05/2018 15/15