# **PRODUCT DATASHEET** C13086\_MIRELLA-50-M-PF

### MIRELLA-50-M-PF

~30° medium beam

#### **SPECIFICATION:**

Ø 49.9 mm **Dimensions** Height 24 mm socket Fastening **ROHS** compliant yes 🕕



### **MATERIALS:**

Component **Type** Material MIRELLA-50-M-PF Reflector PC

Colour **Finish** Coating metal lacquer

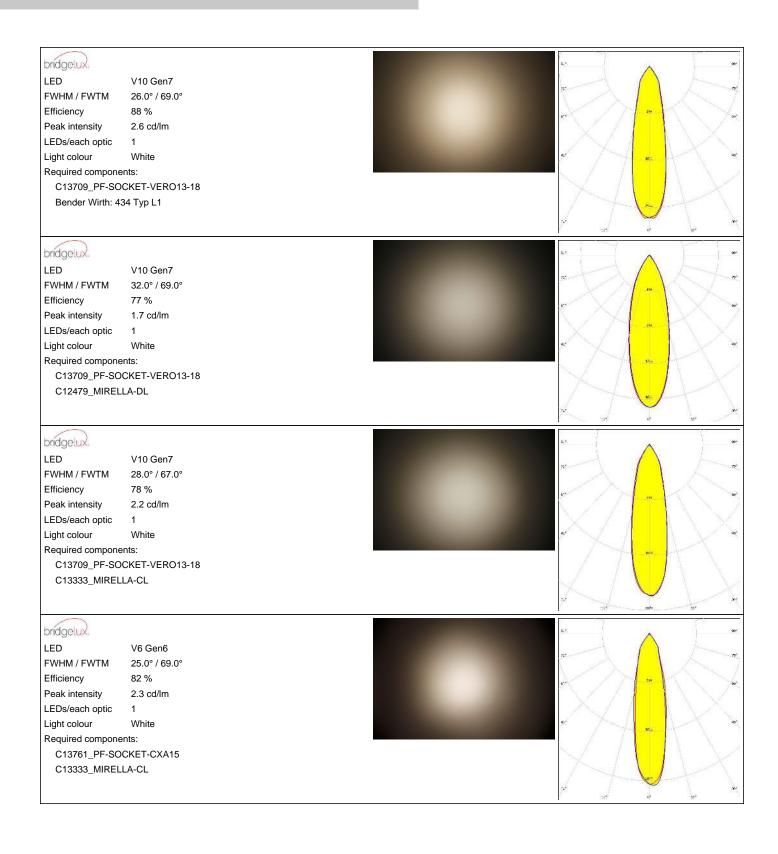
### **ORDERING INFORMATION:**

Component

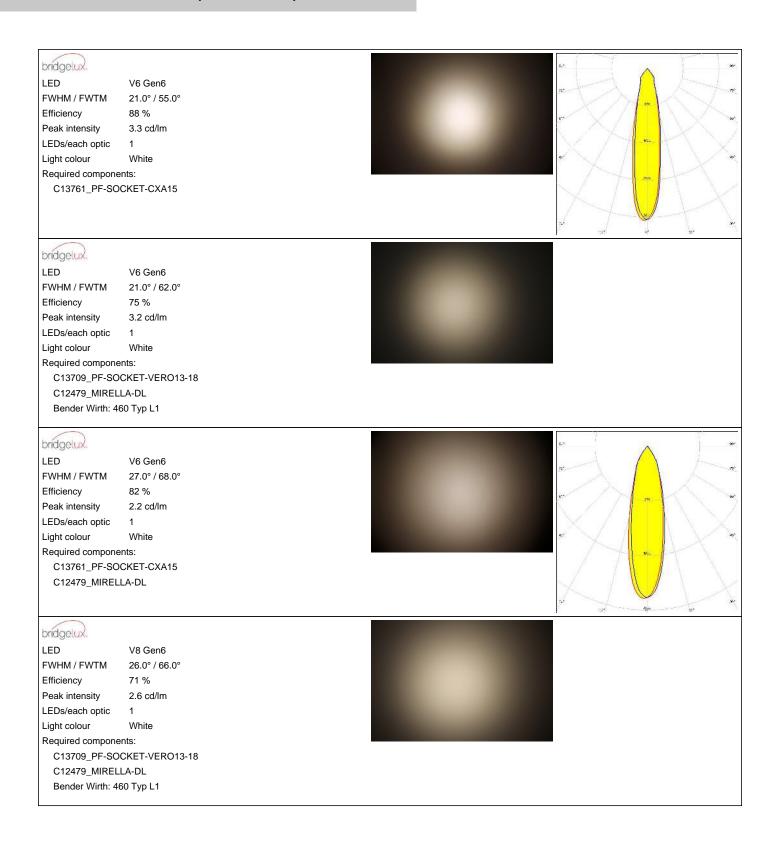
C13086\_MIRELLA-50-M-PF » Box size: 480 x 280 x 300 mm Qty in box MOQ MPQ Box weight (kg) 336 112 28 2.8

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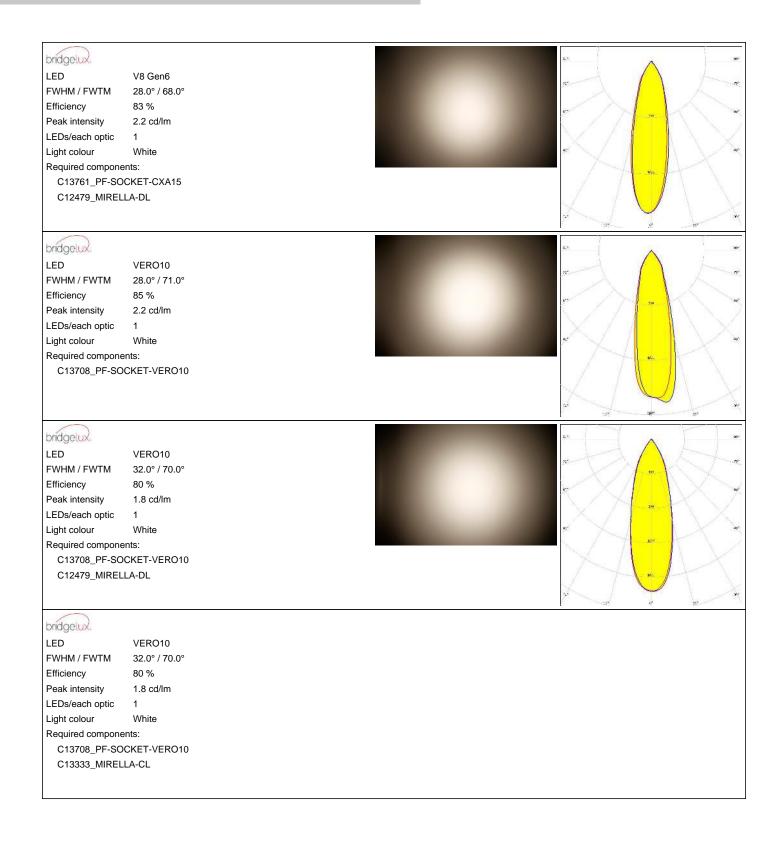




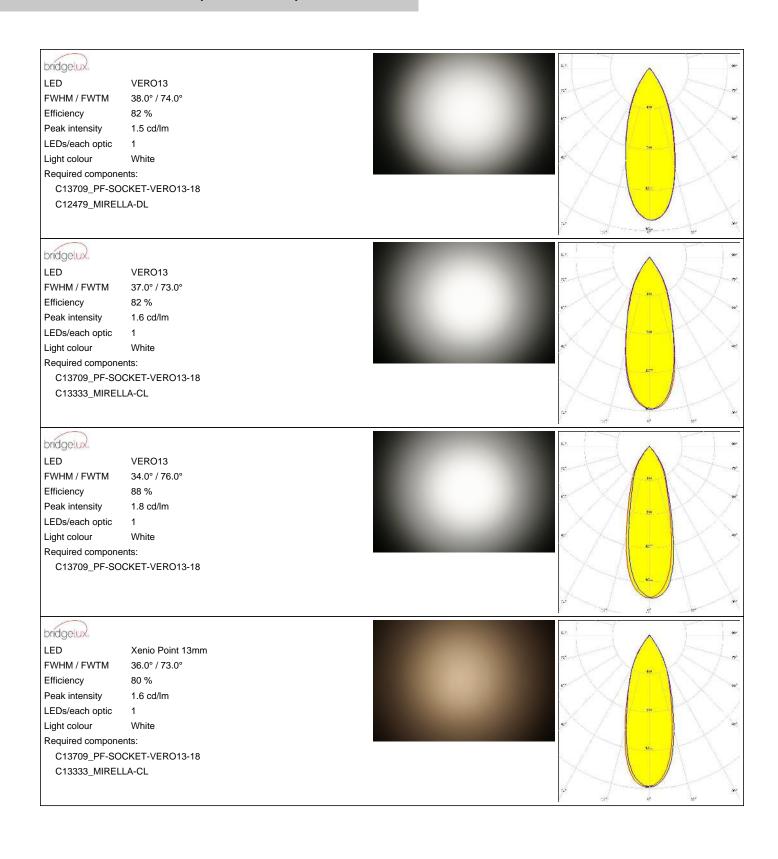










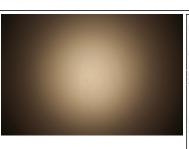


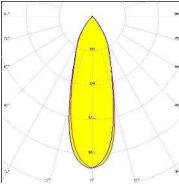




LED Xenio Point 13mm  $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 34.0° / 75.0° Efficiency 84 % Peak intensity 1.8 cd/lm LEDs/each optic Light colour White Required components:

C13709\_PF-SOCKET-VERO13-18

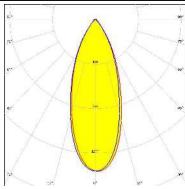




#### bridgelux.

LED Xenio Point 13mm FWHM / FWTM 39.0° / 74.0° Efficiency 78 % Peak intensity 1.4 cd/lm LEDs/each optic 1 White Light colour Required components: C13709\_PF-SOCKET-VERO13-18

C12479\_MIRELLA-DL



### **CITIZEN**

LED CLL01x FWHM / FWTM 24.0° / 69.0° Efficiency 86 % Peak intensity 2.6 cd/lm LEDs/each optic Light colour White Required components: C13083\_PF-SOCKET



# **CITIZEN**

C13333\_MIRELLA-CL

CLL01x FWHM / FWTM 28.0° / 68.0° Efficiency 86 % Peak intensity 2.3 cd/lm LEDs/each optic White Light colour Required components:

C13083\_PF-SOCKET C12479\_MIRELLA-DL



# **CITIZEN**

LED CLL01x
FWHM / FWTM 20.0° / 56.0°
Efficiency 90 %
Peak intensity 3.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13083\_PF-SOCKET



### **CITIZEN**

LED CLL02x/CLU02x (LES10)

FWHM / FWTM 30.0° / 70.0°
Efficiency 87 %
Peak intensity 2.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13083\_PF-SOCKET
C13333\_MIRELLA-CL



#### CITIZEN

LED CLL02x/CLU02x (LES10)

FWHM / FWTM 31.0° / 72.0°
Efficiency 87 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13083\_PF-SOCKET
C12479\_MIRELLA-DL



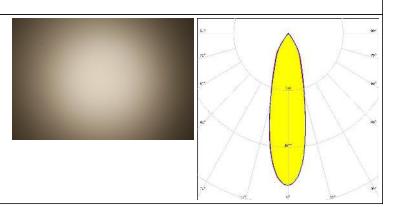
# **CITIZEN**

LED CLL02x/CLU02x (LES10)

FWHM / FWTM 28.0° / 68.0°
Efficiency 79 %
Peak intensity 2.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:

C13709\_PF-SOCKET-VERO13-18

C13333\_MIRELLA-CL Bender Wirth: 434 Typ L1

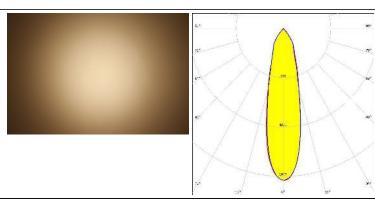


# **CITIZEN**

LED CLL02x/CLU02x (LES10)

FWHM / FWTM 26.0° / 69.0°
Efficiency 84 %
Peak intensity 2.5 cd/lm
LEDs/each optic 1
Light colour White

C13709\_PF-SOCKET-VERO13-18 Bender Wirth: 434 Typ L1



### **CITIZEN**

Required components:

LED CLL02x/CLU02x (LES10)

FWHM / FWTM 26.0° / 70.0°
Efficiency 91 %
Peak intensity 3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13083\_PF-SOCKET



### **CITIZEN**

LED CLL02x/CLU02x (LES10)

FWHM / FWTM 36.0° / 74.0°
Efficiency %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White

Required components: C13083\_PF-SOCKET C13723\_MIRELLA-RZL



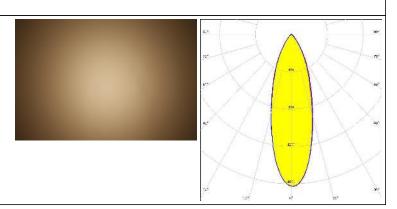
# **CITIZEN**

LED CLL02x/CLU02x (LES10)

FWHM / FWTM 33.0° / 70.0°
Efficiency 76 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:

C13709\_PF-SOCKET-VERO13-18

C12479\_MIRELLA-DL Bender Wirth: 434 Typ L1





#### **CITIZEN** CLU700/701/702/703 FWHM / FWTM 32.0° / 71.0° Efficiency 81 % Peak intensity 1.7 cd/lm LEDs/each optic Light colour White Required components: C13083\_PF-SOCKET C13723\_MIRELLA-RZL **CITIZEN** LED CLU700/701/702/703 FWHM / FWTM 19.0° / 56.0° Efficiency 78 % Peak intensity 4.8 cd/lm LEDs/each optic 1 White Light colour Required components: C13709\_PF-SOCKET-VERO13-18 C13333\_MIRELLA-CL Bender Wirth: 434 Typ L1 CLU700/701/702/703 LED $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 18.0° / 46.0° Efficiency 82 % Peak intensity 4 cd/lm LEDs/each optic Light colour White Required components: C13709\_PF-SOCKET-VERO13-18 Bender Wirth: 434 Typ L1 **CITIZEN** CLU700/701/702/703 FWHM / FWTM 24.0° / 64.0° Efficiency Peak intensity 2.5 cd/lm LEDs/each optic White Light colour Required components: C13083\_PF-SOCKET C12479\_MIRELLA-DL



# **CITIZEN**

LED CLU700/701/702/703

FWHM / FWTM 23.0° / 63.0°
Efficiency 77 %

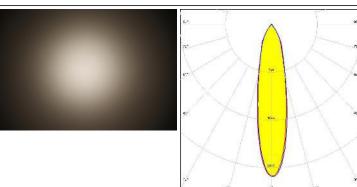
Peak intensity 2.5 cd/lm

LEDs/each optic 1

Light colour White

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

C12479\_MIRELLA-DL Bender Wirth: 434 Typ L1

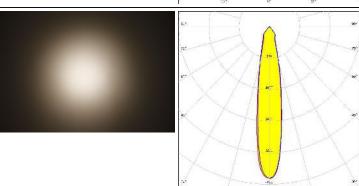


### **CITIZEN**

LED CLU700/701/702/703

FWHM / FWTM 19.0° / 48.0°
Efficiency 87 %
Peak intensity 3.9 cd/lm
LEDs/each optic 1
Light colour White

Required components:
C13083\_PF-SOCKET

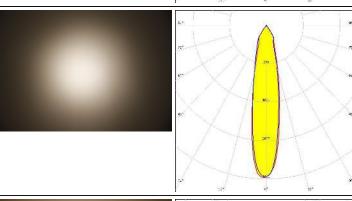


#### CITIZEN

LED CLU700/701/702/703

FWHM / FWTM 21.0° / 62.0° Efficiency 82 % Peak intensity 3.2 cd/lm LEDs/each optic 1

Light colour White Required components: C13083\_PF-SOCKET C13333\_MIRELLA-CL



# **CITIZEN**

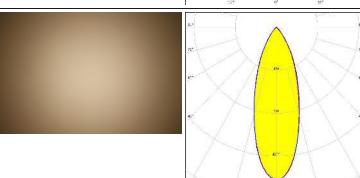
Required components:

LED CLU720/721/723 FWHM / FWTM 36.0° / 73.0°

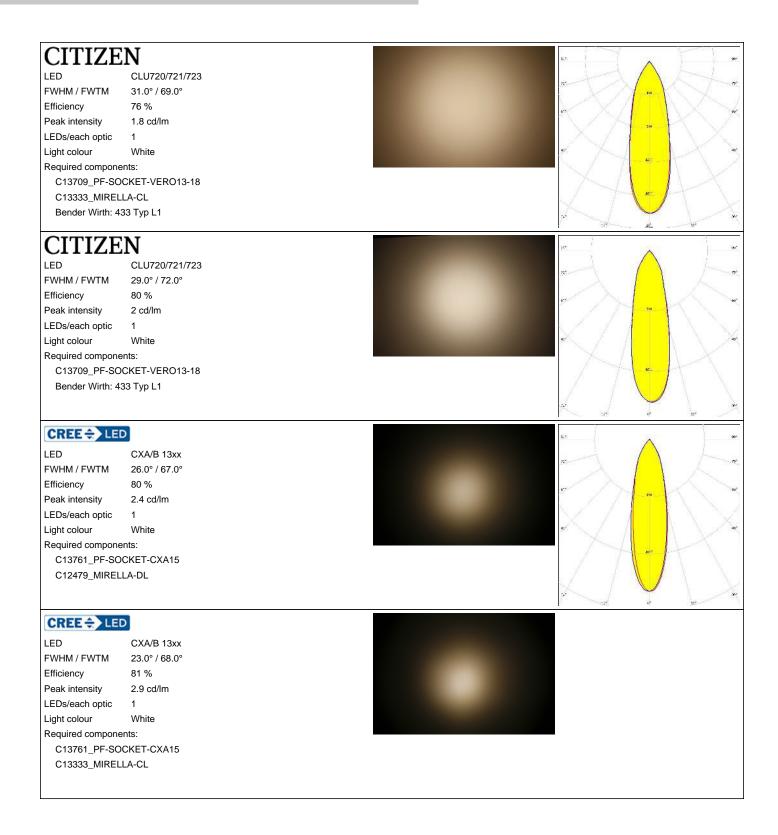
Efficiency 73 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White

C13709\_PF-SOCKET-VERO13-18

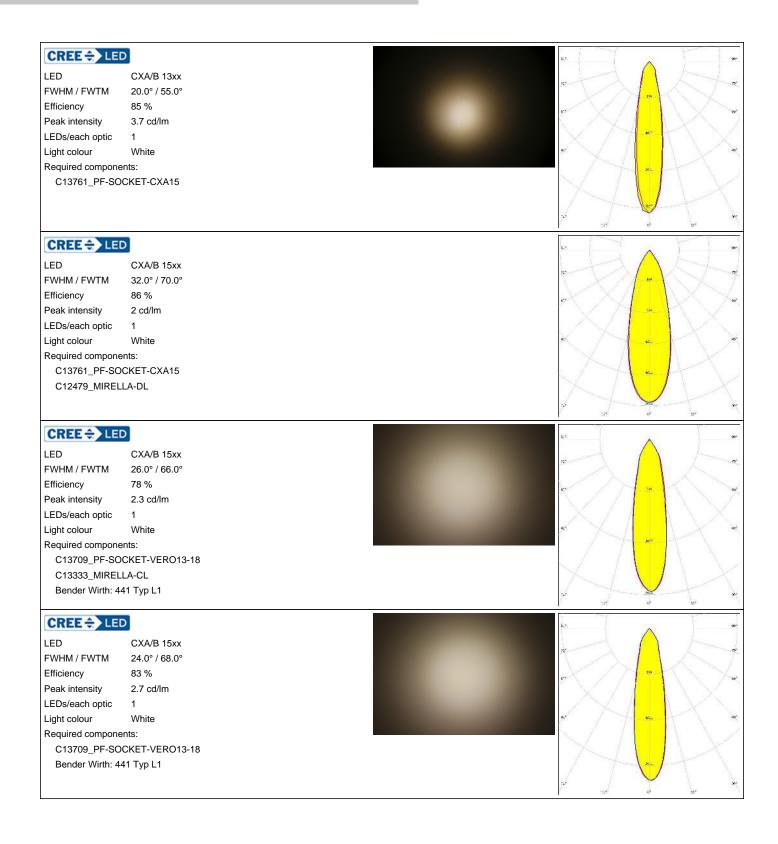
C12479\_MIRELLA-DL Bender Wirth: 433 Typ L1



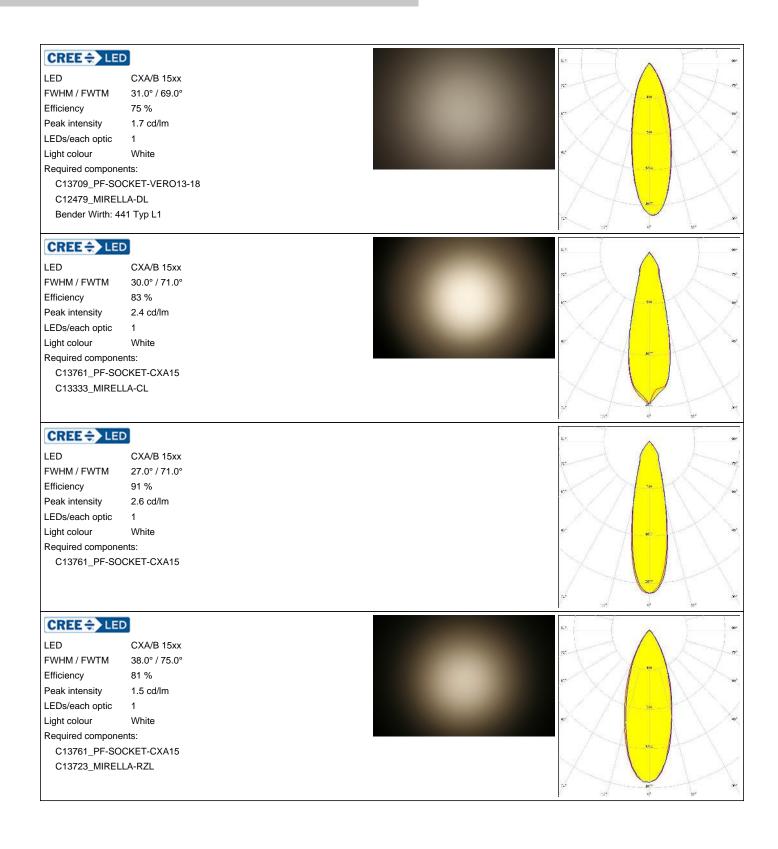




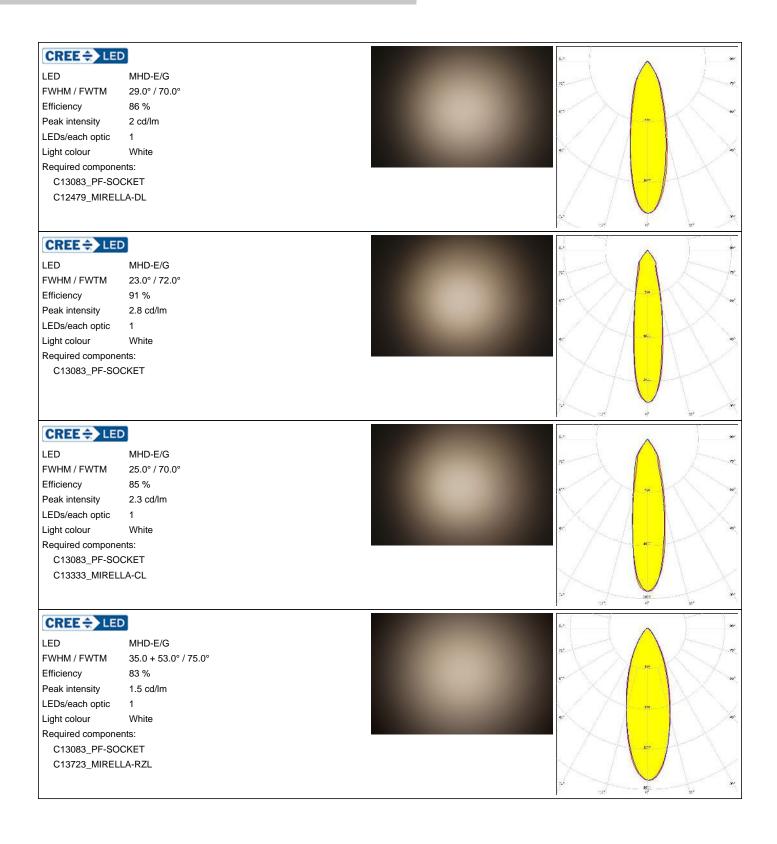










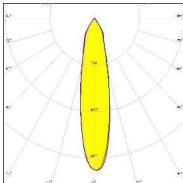




### CREE \$\text{LED}

LED MK-R
FWHM / FWTM 23.0° / 64.0°
Efficiency 80 %
Peak intensity 2.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13083\_PF-SOCKET
C12479\_MIRELLA-DL





#### CREE - LED

LED MT-G
FWHM / FWTM 34.0° / 76.0°
Efficiency 86 %
Peak intensity 2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13083\_PF-SOCKET
C13333\_MIRELLA-CL



#### CREE - LED

 LED
 MT-G

 FWHM / FWTM
 36.0° / 74.0°

 Efficiency
 87 %

 Peak intensity
 1.9 cd/lm

 LEDs/each optic
 1

 Light colour
 White

 Required components:
 C13083\_PF-SOCKET

 C12479\_MIRELLA-DL



#### CREE - LED

LED MT-G
FWHM / FWTM 28.0° / 77.0°
Efficiency 91 %
Peak intensity 2.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13083\_PF-SOCKET





### CREE \$\text{LED}

LED MT-G2
FWHM / FWTM 32.0° / 74.0°
Efficiency 86 %
Peak intensity 2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13083\_PF-SOCKET
C12479\_MIRELLA-DL



#### CREE - LED

LED MT-G2
FWHM / FWTM 25.0° / 76.0°
Efficiency 90 %
Peak intensity 2.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13083\_PF-SOCKET



#### CREE - LED

LED MT-G2
FWHM / FWTM 30.0° / 74.0°
Efficiency 87 %
Peak intensity 2.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13083\_PF-SOCKET
C13333\_MIRELLA-CL

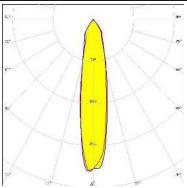


#### CREE - LED

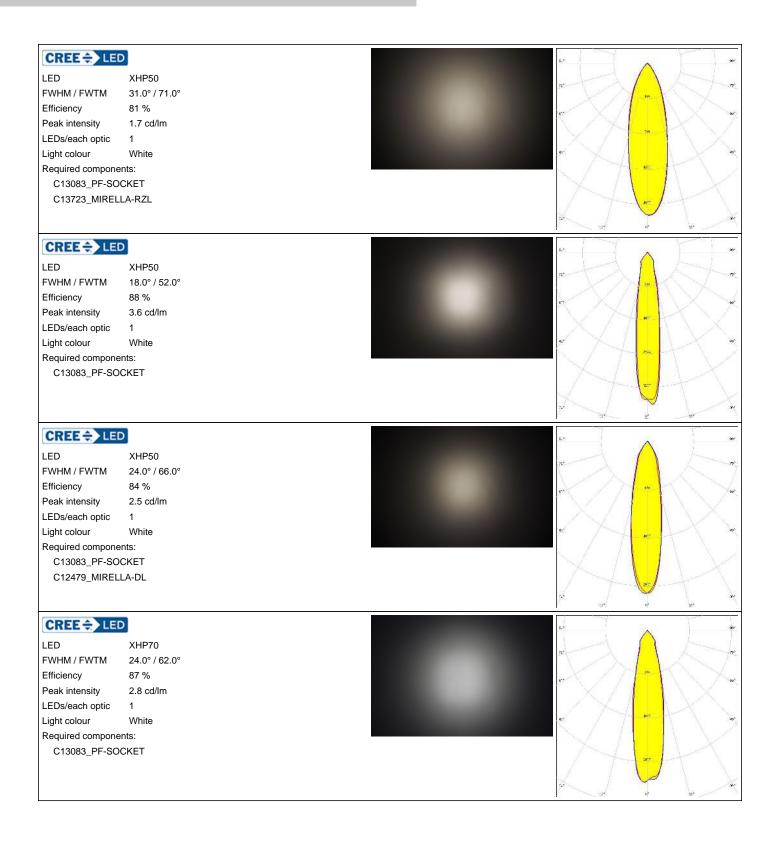
LED XHP50
FWHM / FWTM 21.0° / 66.0°
Efficiency 83 %
Peak intensity 2.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13083\_PF-SOCKET

C13333\_MIRELLA-CL

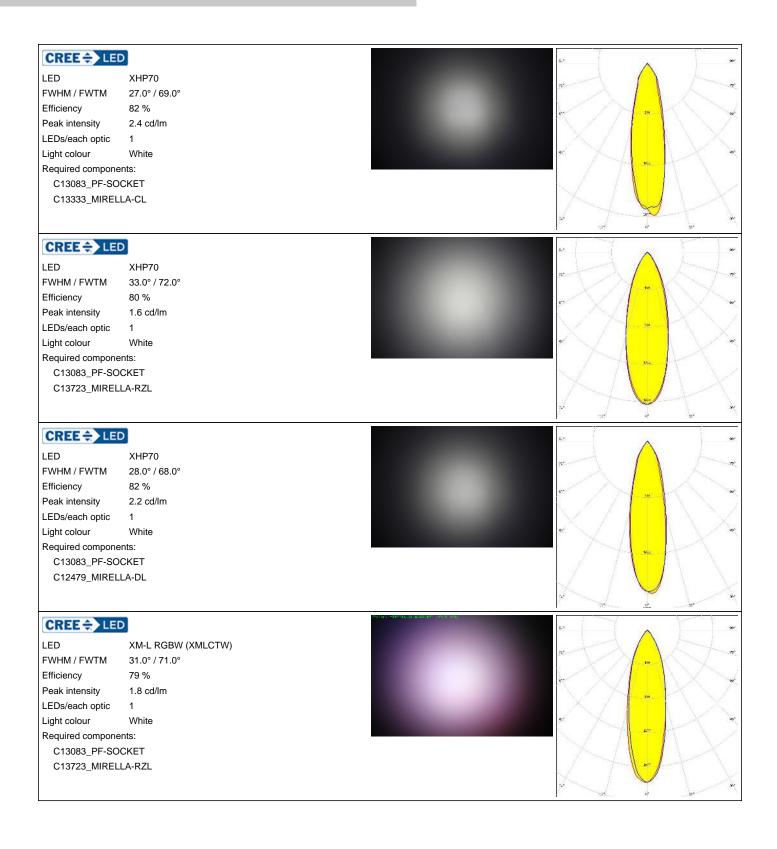














### CREE - LED

LED XQ-E HI
FWHM / FWTM 30.0° / 74.0°
Efficiency 87 %
Peak intensity 2 cd/lm
LEDs/each optic 4
Light colour RGBW
Required components:
C13083\_PF-SOCKET



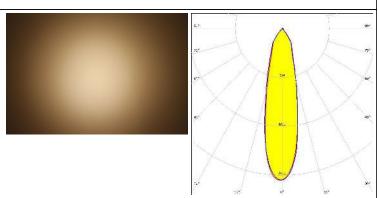
### LUMILEDS

C13723\_MIRELLA-RZL

LED LUXEON CoB 1202/1203

FWHM / FWTM 25.0° / 69.0°
Efficiency 82 %
Peak intensity 2.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:

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



### **DUMILEDS**

LED LUXEON CoB 1202/1203

FWHM / FWTM 32.0° / 69.0°

Efficiency 75 %

Peak intensity 1.6 cd/lm

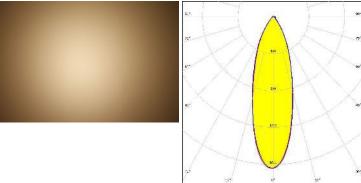
LEDs/each optic 1

Light colour White

Required components:

C13709\_PF-SOCKET-VERO13-18

C12479\_MIRELLA-DL Bender Wirth: 438 Typ L1

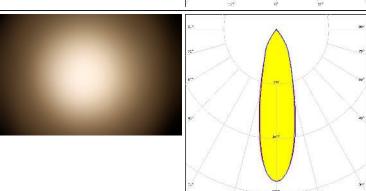


### **MUMILEDS**

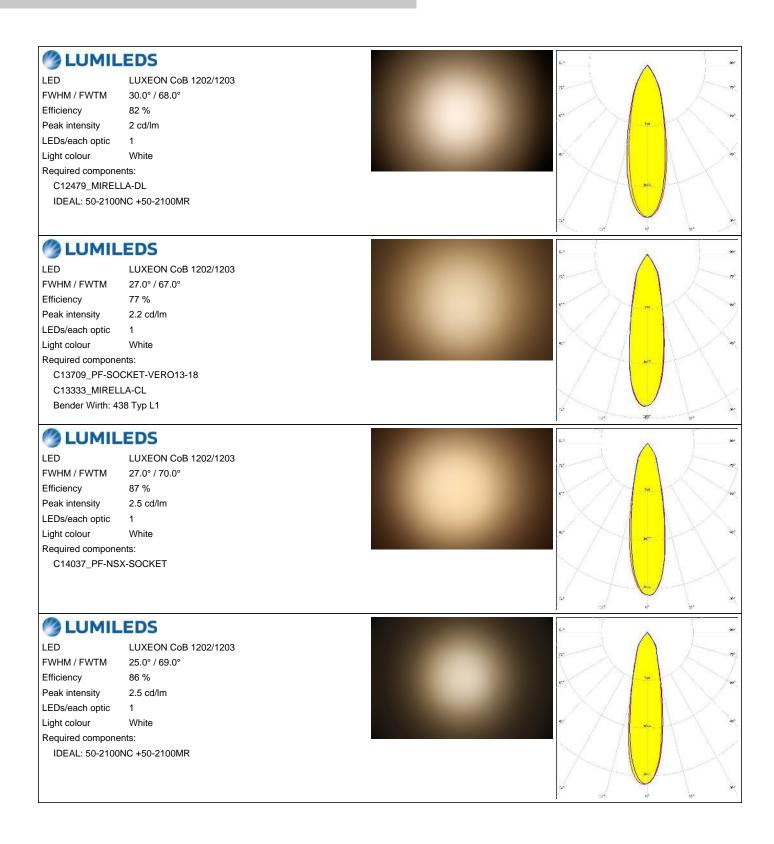
LED LUXEON CoB 1202/1203

FWHM / FWTM 28.0° / 68.0°
Efficiency 81 %
Peak intensity 2.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13333\_MIRELLA-CL

IDEAL: 50-2100NC +50-2100MR







# PRODUCT DATASHEET C13086\_MIRELLA-50-M-PF

### **OPTICAL RESULTS (MEASURED):**

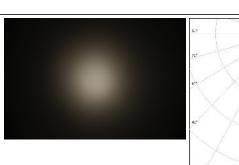


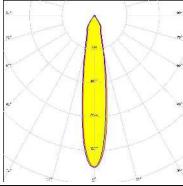
LED LUXEON CoB 1202s

FWHM / FWTM 19.0° / 55.0°
Efficiency 81 %
Peak intensity 3.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:

C13709\_PF-SOCKET-VERO13-18

C13333\_MIRELLA-CL Bender Wirth: 452 Typ L1





### **DUMILEDS**

LED LUXEON CoB 1202s

FWHM / FWTM 26.0° / 70.0°

Efficiency 83 %

Peak intensity 2.5 cd/lm

LEDs/each optic 1

Light colour White

Required components:

C13761\_PF-SOCKET-CXA15 C12479\_MIRELLA-DL



### **MILEDS**

LED LUXEON CoB 1202s

FWHM / FWTM 23.0° / 72.0°
Efficiency 83 %
Peak intensity 2.8 cd/lm
LEDs/each optic 1
Light colour White

C13761\_PF-SOCKET-CXA15 C13333\_MIRELLA-CL



### **BLUMILEDS**

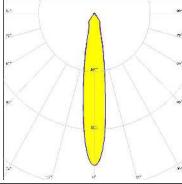
Required components:

LED LUXEON CoB 1202s

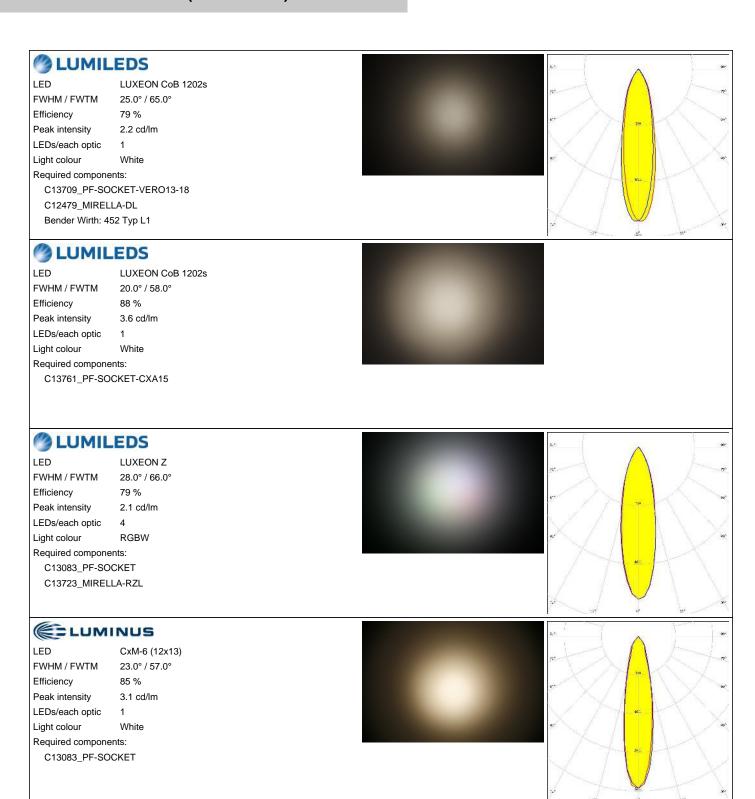
FWHM / FWTM 17.0° / 45.0°
Efficiency 86 %
Peak intensity 4.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:

C13709\_PF-SOCKET-VERO13-18 Bender Wirth: 452 Typ L1

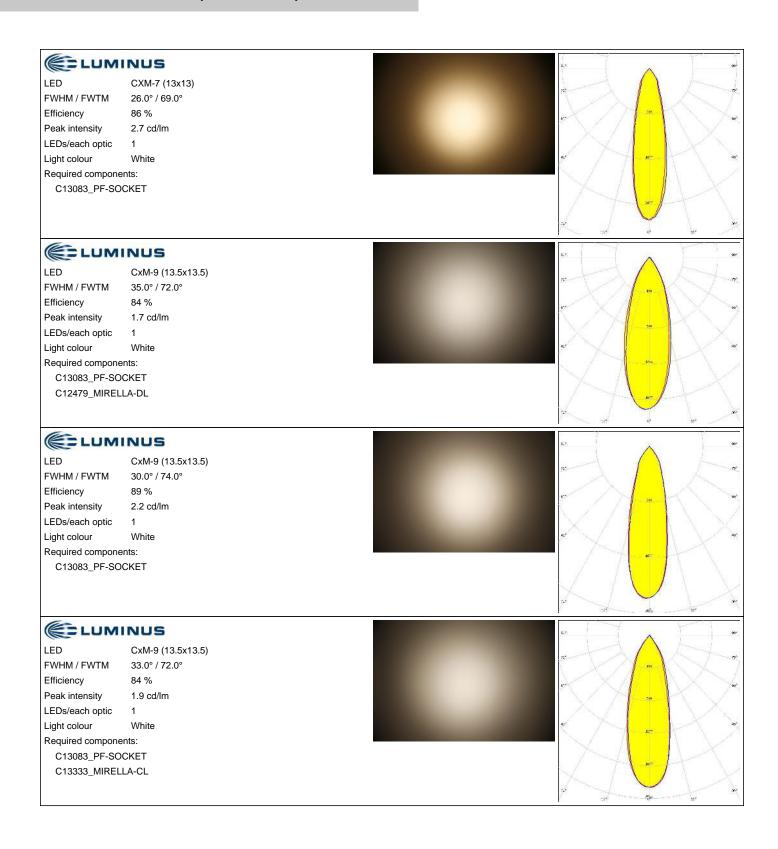






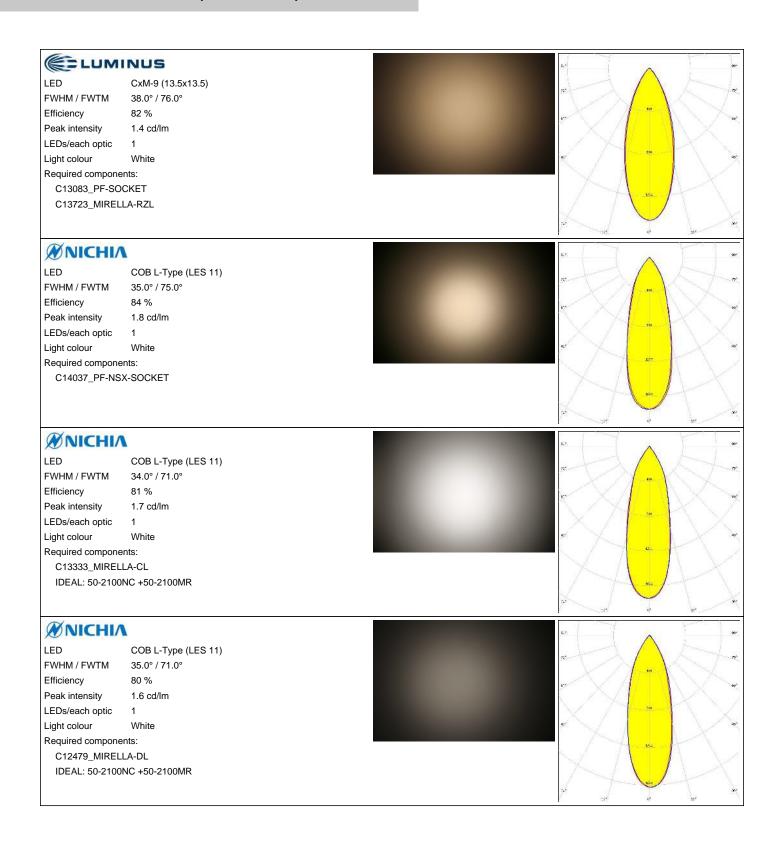




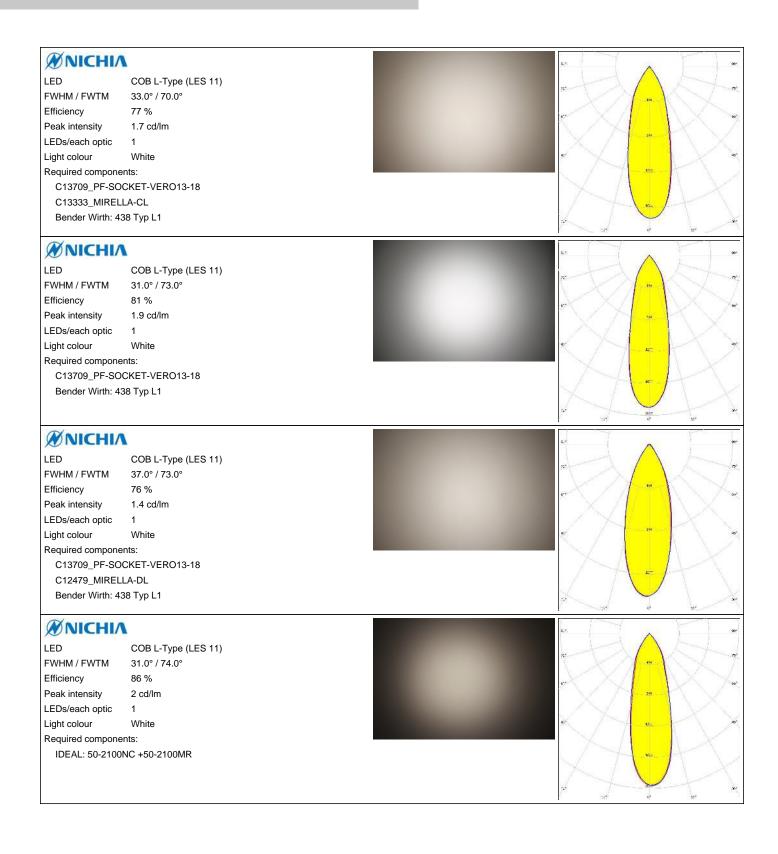


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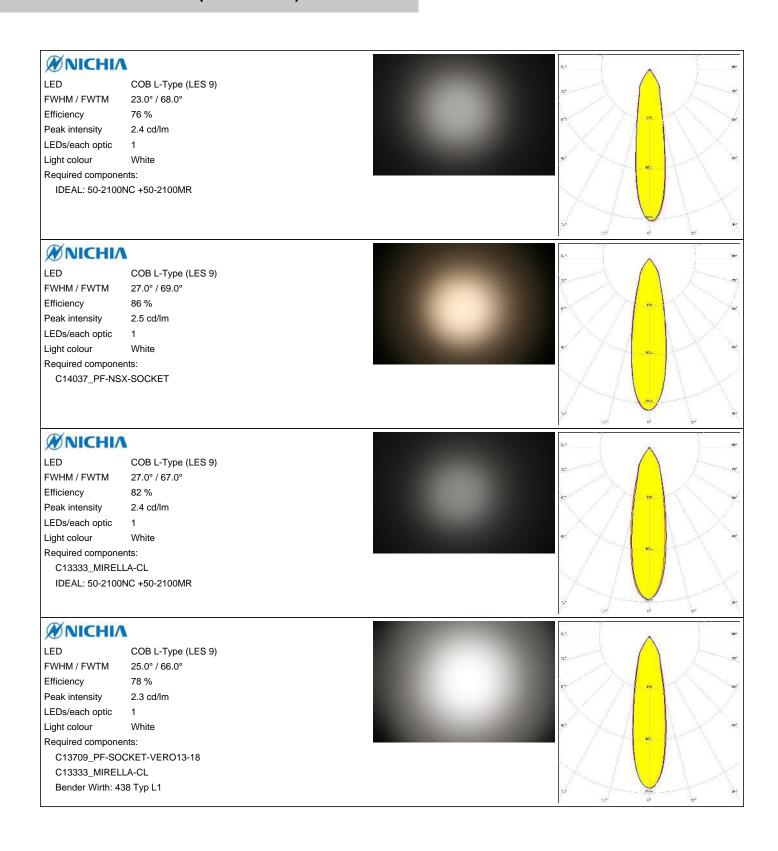




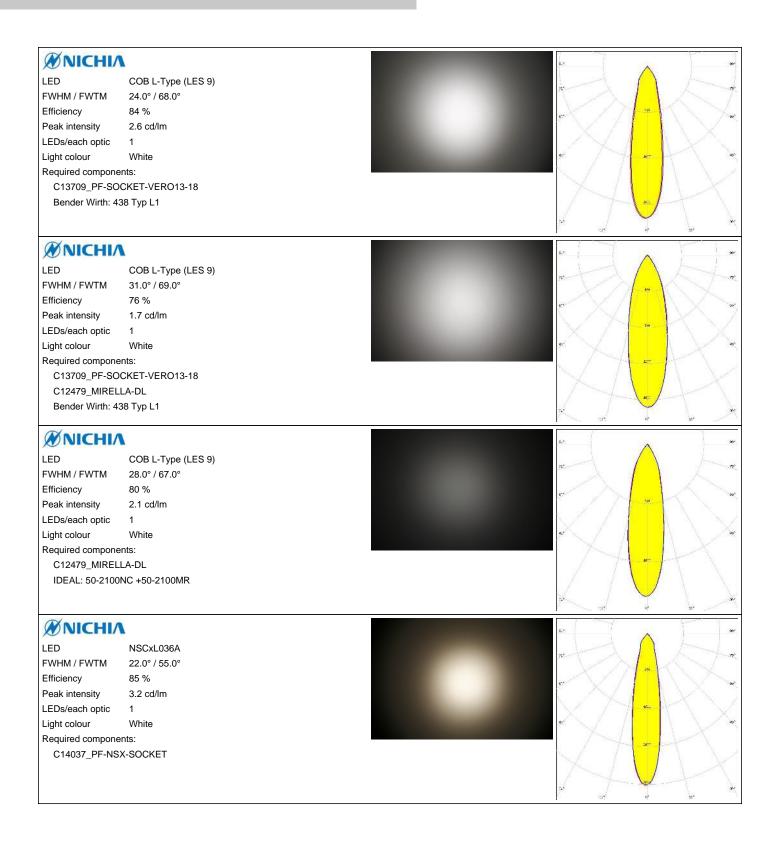


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# OSRAM Opto Semiconductors

LED Duris S10 FWHM / FWTM 21.0° / 60.0° Efficiency 87 % Peak intensity 3.4 cd/lm LEDs/each optic Light colour White Required components:

C13083\_PF-SOCKET



#### **OSRAM**

LED Duris S10 FWHM / FWTM 25.0° / 70.0° Efficiency 82 % Peak intensity 2.8 cd/lm LEDs/each optic 1 White Light colour Required components: C13083\_PF-SOCKET C13333\_MIRELLA-CL



# OSRAM Opto Semiconductors

LED Duris S10  $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 33.0° / 73.0° Efficiency 81 % Peak intensity 1.8 cd/lm LEDs/each optic Light colour White Required components: C13083\_PF-SOCKET C13723\_MIRELLA-RZL



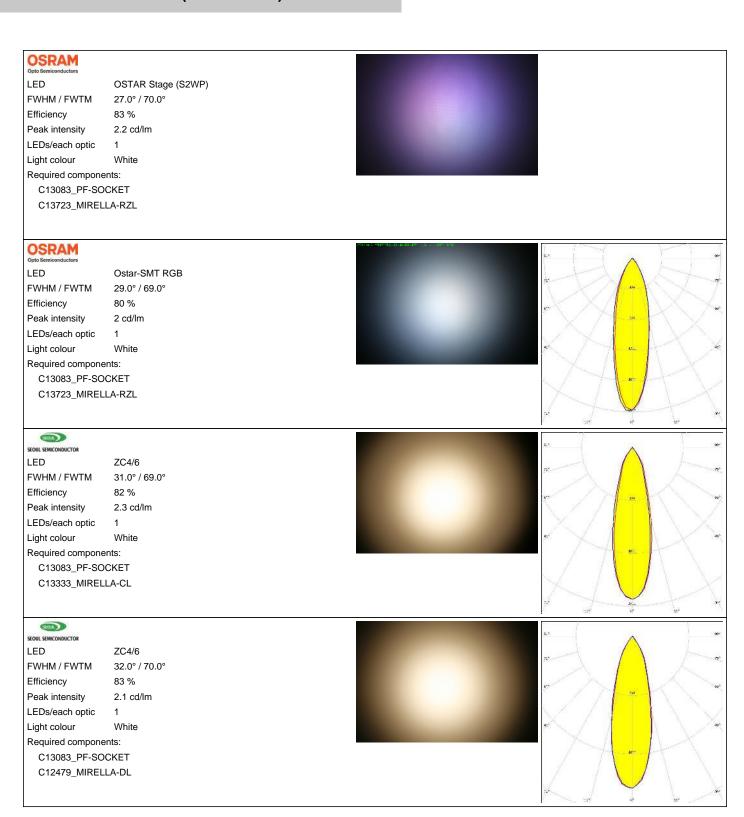
# OSRAM Opto Semiconductors

LED Duris S10 FWHM / FWTM 31.0° / 72.0° Efficiency 80 % Peak intensity 1.9 cd/lm LEDs/each optic White Light colour Required components: C13083\_PF-SOCKET

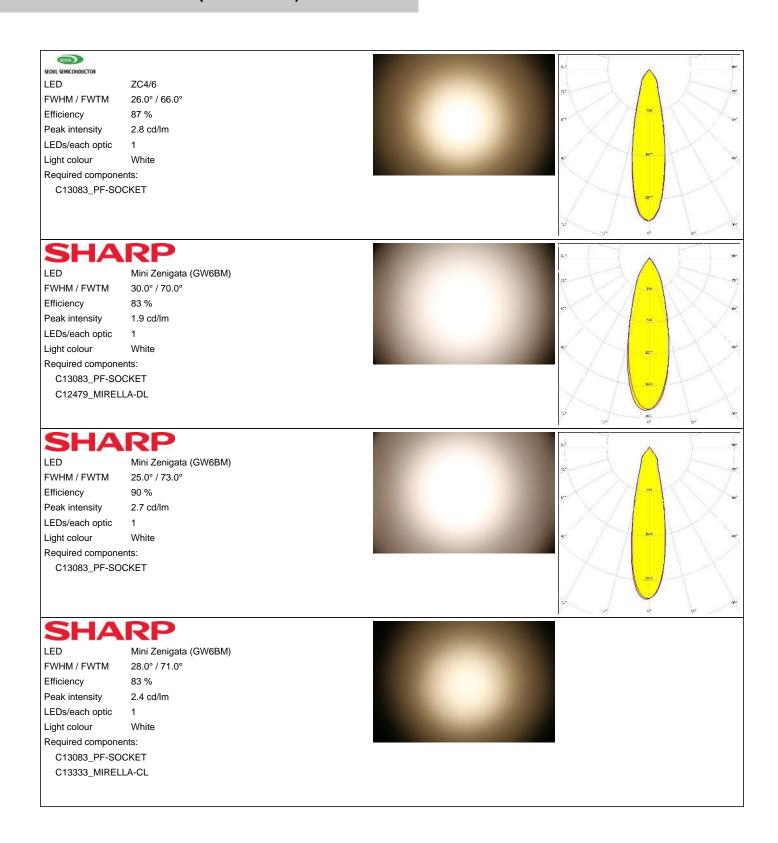
C12479\_MIRELLA-DL



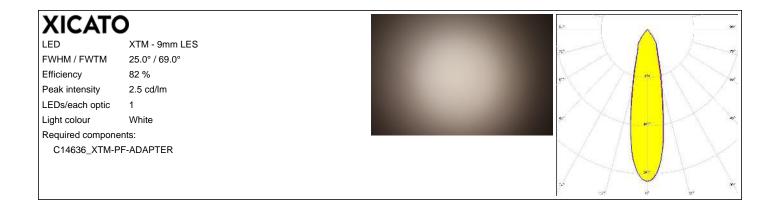














# PRODUCT DATASHEET C13086\_MIRELLA-50-M-PF

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



LED LUXEON CoB Compact

FWHM / FWTM 26.0° / 70.0°
Efficiency 83 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White

Required components:

C13761\_PF-SOCKET-CXA15 C12479\_MIRELLA-DL

### **MUMILEDS**

LED LUXEON CoB Compact

FWHM / FWTM 19.0° / 55.0°

Efficiency 81 %

Peak intensity 3.6 cd/lm

LEDs/each optic 1

Light colour White

Required components:

C13709\_PF-SOCKET-VERO13-18

C13333\_MIRELLA-CL Bender Wirth: 452 Typ L1

# **MUMILEDS**

LED LUXEON CoB Compact

FWHM / FWTM 17.0° / 45.0°
Efficiency 86 %
Peak intensity 4.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:

C13709\_PF-SOCKET-VERO13-18 Bender Wirth: 452 Typ L1

# **DUMILEDS**

LED LUXEON CoB Compact

FWHM / FWTM 23.0° / 72.0°
Efficiency 83 %
Peak intensity 2.8 cd/lm
LEDs/each optic 1
Light colour White

Required components: C13761\_PF-SOCKET-CXA15 C13333\_MIRELLA-CL



LED LUXEON CoB Compact

FWHM / FWTM 20.0° / 58.0° Efficiency 88 % Peak intensity 3.6 cd/lm LEDs/each optic Light colour White

Required components:

C13761\_PF-SOCKET-CXA15

### LUMILEDS

LED LUXEON CoB Compact

FWHM / FWTM 25.0° / 65.0° Efficiency 79 % Peak intensity 2.2 cd/lm LEDs/each optic 1 White Light colour

Required components:

C13709\_PF-SOCKET-VERO13-18

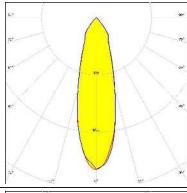
C12479\_MIRELLA-DL Bender Wirth: 452 Typ L1

### LUMILEDS

LED LUXEON K4  $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 30.0° / 78.0° Efficiency 88 % Peak intensity 2.1 cd/lm LEDs/each optic Light colour White

Required components:

C13761\_PF-SOCKET-CXA15

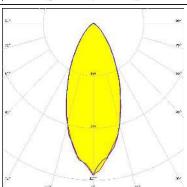


### **MUMILEDS**

LED LUXEON K4 FWHM / FWTM 44.0° / 88.0° Efficiency 83 % Peak intensity 1.1 cd/lm LEDs/each optic 1

White Light colour Required components:

C13761\_PF-SOCKET-CXA15 C12479\_MIRELLA-DL



# PRODUCT DATASHEET C13086\_MIRELLA-50-M-PF

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



LED CxM-14 (19x19)
FWHM / FWTM 42.0° / 76.0°
Efficiency 70 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White

Required components:

C13709\_PF-SOCKET-VERO13-18

C12479\_MIRELLA-DL Bender Wirth: 433 Typ L1

### **ELUMINUS**

LED CxM-14 (19x19)
FWHM / FWTM 41.0° / 75.0°
Efficiency 71 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:

C13709\_PF-SOCKET-VERO13-18

C13333\_MIRELLA-CL Bender Wirth: 433 Typ L1

### **ELUMINUS**

LED CxM-14 (19x19)
FWHM / FWTM 38.0° / 78.0°
Efficiency 75 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:

C13709\_PF-SOCKET-VERO13-18

### **ELUMINUS**

LED CxM-9 (13.5x13.5)
FWHM / FWTM 33.0° / 70.0°
Efficiency 76 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour White

Required components:

C13709\_PF-SOCKET-VERO13-18

C12479\_MIRELLA-DL Bender Wirth: 434 Typ L1

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# PRODUCT DATASHEET C13086\_MIRELLA-50-M-PF

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



LED CxM-9 (13.5x13.5)

FWHM / FWTM 28.0° / 68.0°
Efficiency 79 %
Peak intensity 2.1 cd/lm
LEDs/each optic 1
Light colour White

Required components:

C13709\_PF-SOCKET-VERO13-18

C13333\_MIRELLA-CL Bender Wirth: 434 Typ L1

### **ELUMINUS**

LED CxM-9 (13.5x13.5) FWHM / FWTM 26.0° / 69.0° Efficiency 84 %

Peak intensity 2.5 cd/lm
LEDs/each optic 1
Light colour White

Required components:

C13709\_PF-SOCKET-VERO13-18 Bender Wirth: 434 Typ L1

### WNICHIA

LED COB S-Type (LES 7)

FWHM / FWTM 19.0° / 55.0°
Efficiency 81 %
Peak intensity 3.6 cd/lm
LEDs/each optic 1
Light colour White

Required components:

C13709\_PF-SOCKET-VERO13-18

C13333\_MIRELLA-CL Bender Wirth: 452 Typ L1

### **WNICHIA**

Required components:

LED COB S-Type (LES 7)

FWHM / FWTM 17.0° / 45.0°
Efficiency 86 %
Peak intensity 4.2 cd/lm
LEDs/each optic 1
Light colour White

C13709\_PF-SOCKET-VERO13-18 Bender Wirth: 452 Typ L1





LED COB S-Type (LES 7)

FWHM / FWTM 25.0° / 65.0° Efficiency 79 % Peak intensity 2.2 cd/lm LEDs/each optic Light colour White

Required components:

C13709\_PF-SOCKET-VERO13-18

C12479\_MIRELLA-DL Bender Wirth: 452 Typ L1

#### **OSRAM**

LED Soleriq S15 FWHM / FWTM 38.0° / 79.0° Efficiency 85 % Peak intensity 1.6 cd/lm LEDs/each optic 1 White Light colour Required components:

C13709\_PF-SOCKET-VERO13-18

# Bender Wirth: 433 Typ L1

# OSRAM Opto Semiconductors

LED Soleriq S9 FWHM / FWTM 32.0° / 70.0° Efficiency 85 % Peak intensity 2.2 cd/lm LEDs/each optic Light colour White Required components:

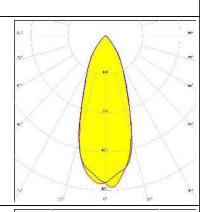
C13083\_PF-SOCKET C13333\_MIRELLA-CL

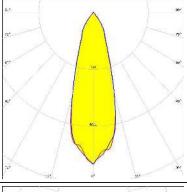
# OSRAM Opto Semiconductors

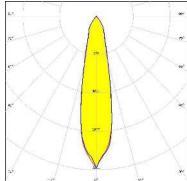
LED

Soleriq S9 FWHM / FWTM 23.0° / 60.0° Efficiency 88 % Peak intensity 3.2 cd/lm LEDs/each optic 1 White Light colour

Required components: C13709\_PF-SOCKET-VERO13-18 Bender Wirth: 434 Typ L1









# OSRAM Opto Semiconductors

LED Soleriq S9

FWHM / FWTM 27.0° / 68.0°

Efficiency 91 %

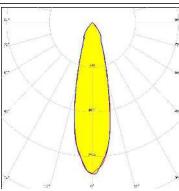
Peak intensity 2.7 cd/lm

LEDs/each optic

Light colour White

Required components:

C13083\_PF-SOCKET



# OSRAM Opto Semiconductor

LED

Soleriq S9

FWHM / FWTM 32.0° / 70.0°

Efficiency 86 %

Peak intensity 2 cd/lm

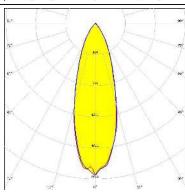
LEDs/each optic 1

White Light colour

Required components:

C13083\_PF-SOCKET

C13723\_MIRELLA-RZL



# OSRAM Opto Semiconductors

LED Soleriq S9

FWHM / FWTM 32.0° / 69.0° 85 %

Efficiency Peak intensity 2.1 cd/lm

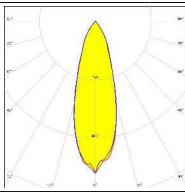
LEDs/each optic

Light colour White

Required components:

C13083\_PF-SOCKET

C12479\_MIRELLA-DL



# SAMSUNG

FWHM / FWTM 17.0° / 35.0°

Efficiency 87 %

Peak intensity 5.3 cd/lm

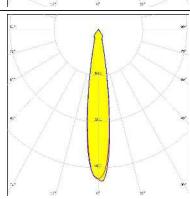
LEDs/each optic 1

White Light colour

Required components:

C13709\_PF-SOCKET-VERO13-18

Bender Wirth: 479 Typ L1



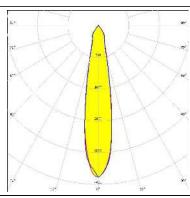


# SAMSUNG

LC020C FWHM / FWTM 20.0° / 48.0° Efficiency 86 % Peak intensity 3.9 cd/lm LEDs/each optic Light colour White

Required components:

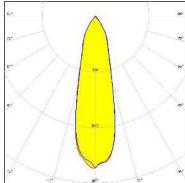
C13709\_PF-SOCKET-VERO13-18 Bender Wirth: 479 Typ L1



### SAMSUNG

LED LC040C FWHM / FWTM 28.0° / 70.0° Efficiency 84 % Peak intensity 2.2 cd/lm LEDs/each optic 1 White Light colour Required components:

C13709\_PF-SOCKET-VERO13-18 Bender Wirth: 480 Typ L1



#### SEOUL SEMICONDUCTOR

LED ZC4/6  $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 28.0° / 68.0° Efficiency 79 % Peak intensity 2.1 cd/lm LEDs/each optic Light colour White Required components:

C13709\_PF-SOCKET-VERO13-18

C13333\_MIRELLA-CL Bender Wirth: 434 Typ L1



#### SEOUL SEMICONDUCTOR

LED ZC4/6 FWHM / FWTM 26.0° / 69.0° Efficiency 84 % Peak intensity 2.5 cd/lm LEDs/each optic 1 White Light colour Required components:

C13709\_PF-SOCKET-VERO13-18 Bender Wirth: 434 Typ L1



# PRODUCT DATASHEET C13086\_MIRELLA-50-M-PF

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



LED ZC4/6 FWHM / FWTM 33.0° /

33.0° / 70.0°

Efficiency 76 %
Peak intensity 1.6 cd/lm

LEDs/each optic 1
Light colour White

Required components:

C13709\_PF-SOCKET-VERO13-18

C12479\_MIRELLA-DL Bender Wirth: 434 Typ L1



# PRODUCT DATASHEET C13086\_MIRELLA-50-M-PF

#### **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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