

#### HB-2X2-RS

~10° spot beam

#### **SPECIFICATION:**

Dimensions 50.0 x 50.0 mm

Height 10 mm

Fastening screw

ROHS compliant yes 1



#### **MATERIALS:**

ComponentTypeMaterialColourFinishHB-2X2-RSMulti-lensPMMAclear

#### **ORDERING INFORMATION:**

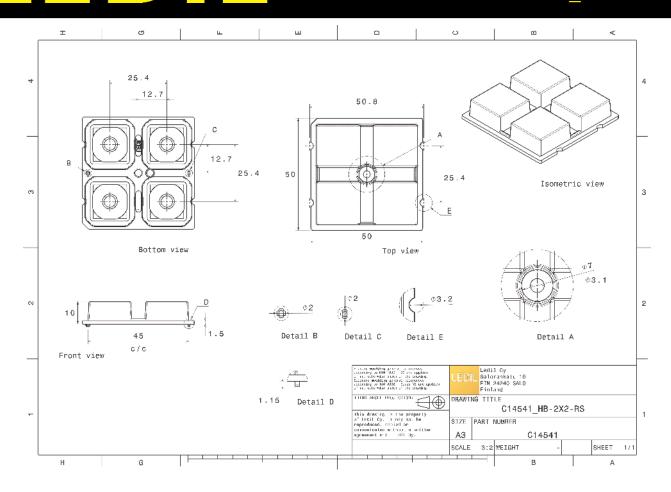
Component

C14541\_HB-2X2-RS

» Box size: 480 x 280 x 300 mm

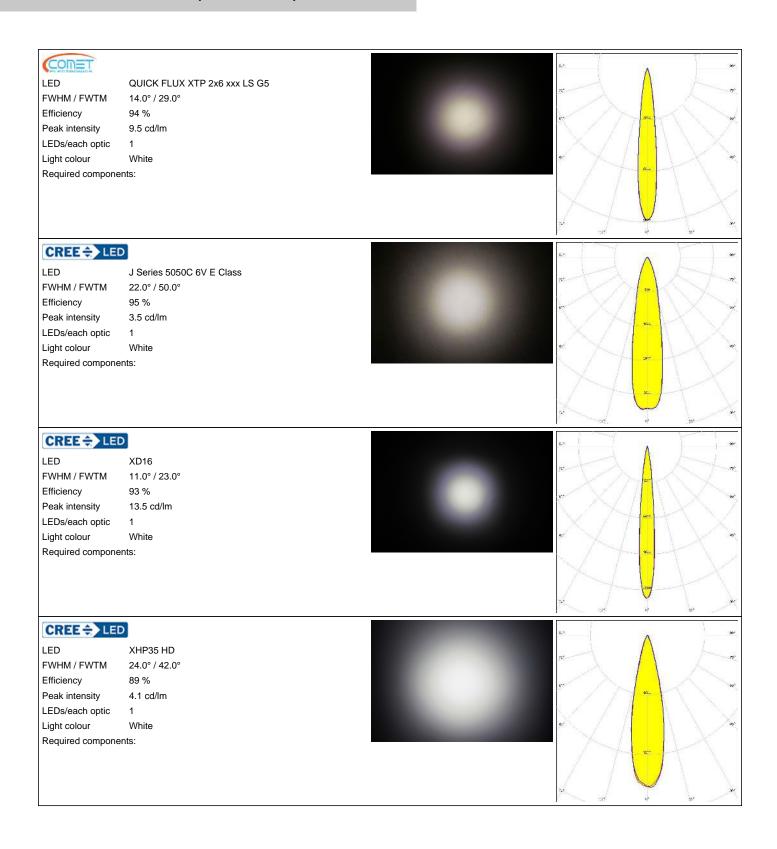
**Qty in box MOQ MPQ Box weight (kg)** 800 160 160 10.2

# PRODUCT DATASHEET C14541\_HB-2X2-RS

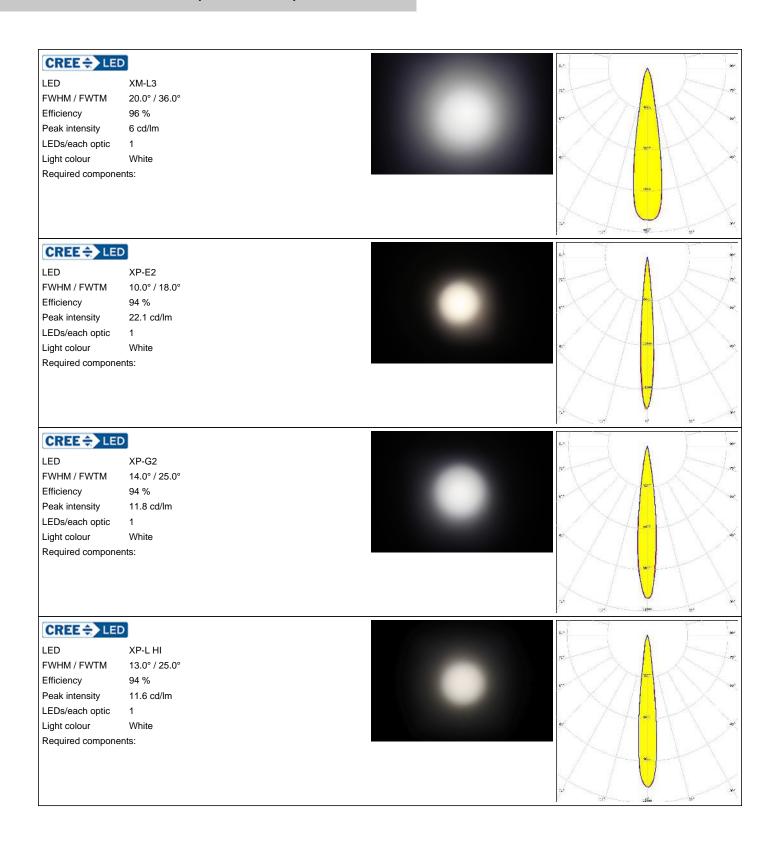


See also our general installation guide: <a href="www.ledil.com/installation\_guide">www.ledil.com/installation\_guide</a>

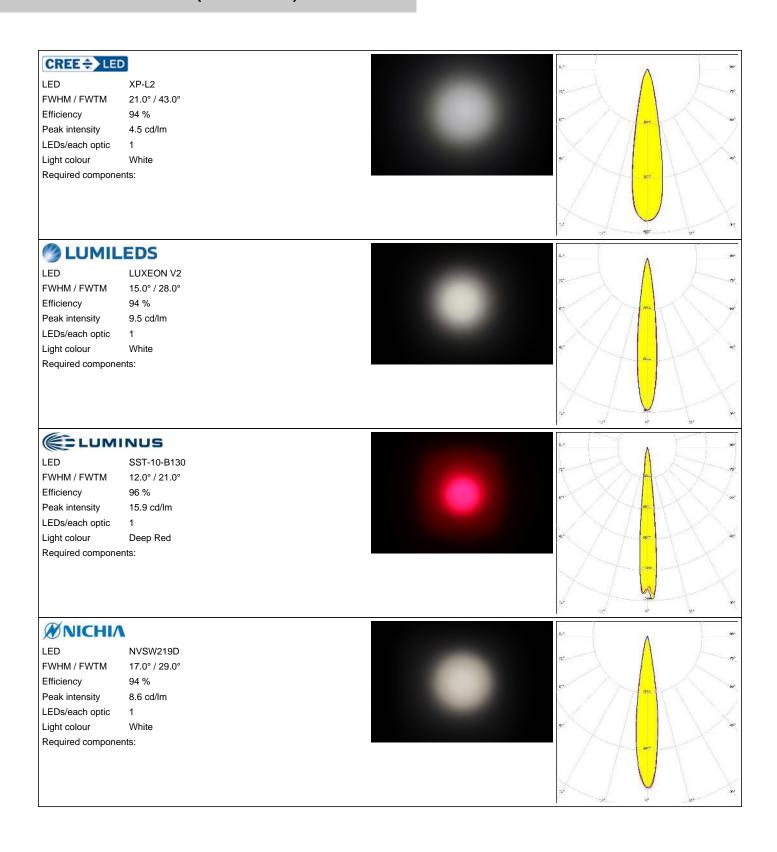




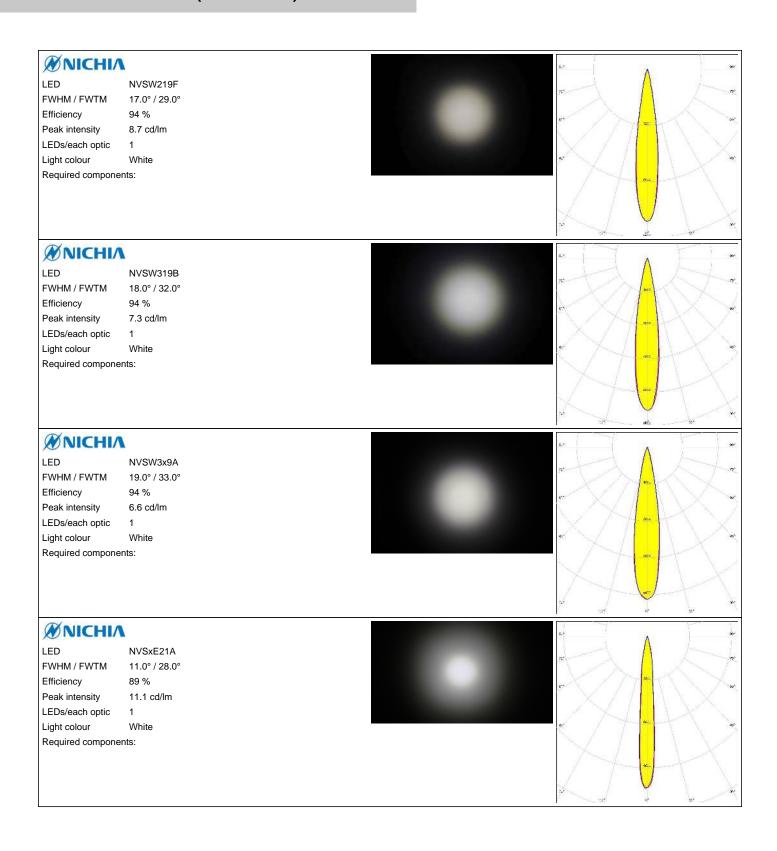




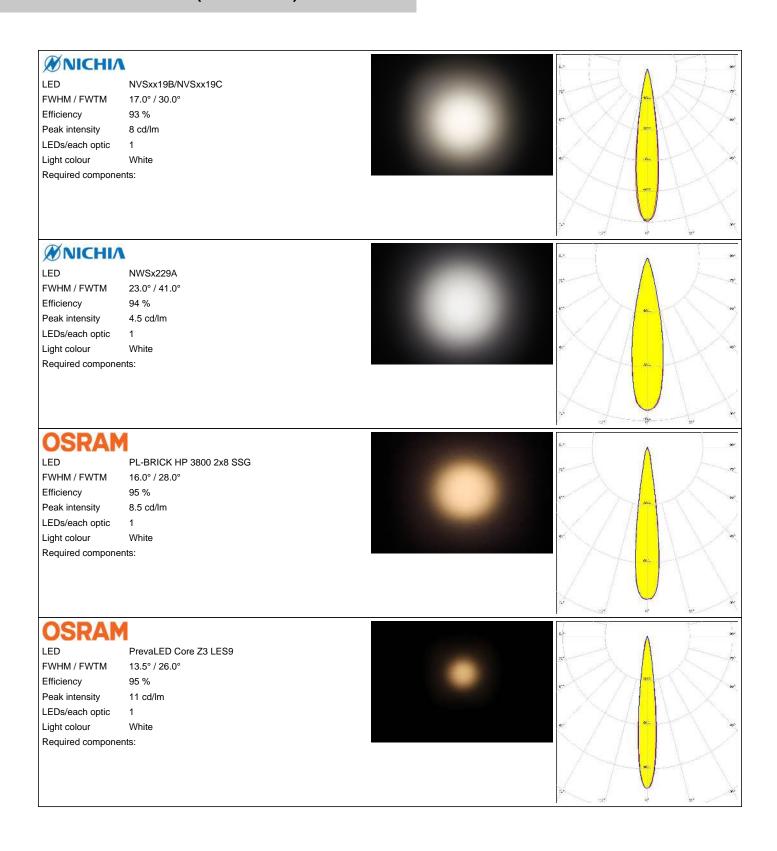












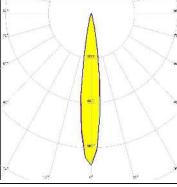


#### OSRAM Opto Semiconductors

LED OSLON Square CSSRM2/CSSRM3

FWHM / FWTM 15.0° / 27.0°
Efficiency 90 %
Peak intensity 11 cd/lm
LEDs/each optic 1
Light colour White
Required components:



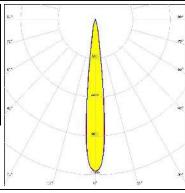


#### PHILIPS

LED Fortimo FastFlex LED 2x8 DA G4

FWHM / FWTM 13.0° / 23.0°
Efficiency 93 %
Peak intensity 12.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



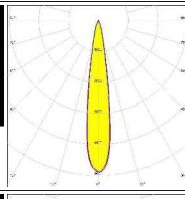


### PHILIPS

LED Fortimo FastFlex LED 2x8 DA G4+

FWHM / FWTM 17.0° / 32.0°
Efficiency 96 %
Peak intensity 7.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:





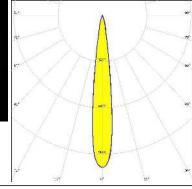
# **PHILIPS**

Required components:

LED Fortimo FastFlex LED 2x8 DA G5

FWHM / FWTM 14.0° / 27.0°
Efficiency 96 %
Peak intensity 10.5 cd/lm
LEDs/each optic 1
Light colour White







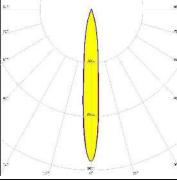
# SAMSUNG

LED HILOM RC12 Z (LH181B)

FWHM / FWTM 12.0° / 33.0°
Efficiency 97 %
Peak intensity 9.1 cd/lm
LEDs/each optic 1
Light colour White

Required components:



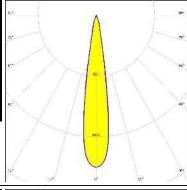


## SAMSUNG

LED HILOM RH12 Z (LH351C)

FWHM / FWTM 17.0° / 29.0°
Efficiency 96 %
Peak intensity 8 cd/lm
LEDs/each optic 1
Light colour White
Required components:





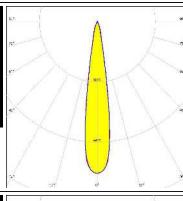
## SAMSUNG

LED HILOM RH16 (LH351C)

FWHM / FWTM 17.0° / 30.0° Efficiency 94 % Peak intensity 8.1 cd/lm LEDs/each optic 1

Light colour White Required components:





# SAMSUNG

LED LH351B FWHM / FWTM 17.0° / 29.0°

FWHM / FWTM 17.0° / 29.

Efficiency 89 %

Peak intensity 8 cd/lm

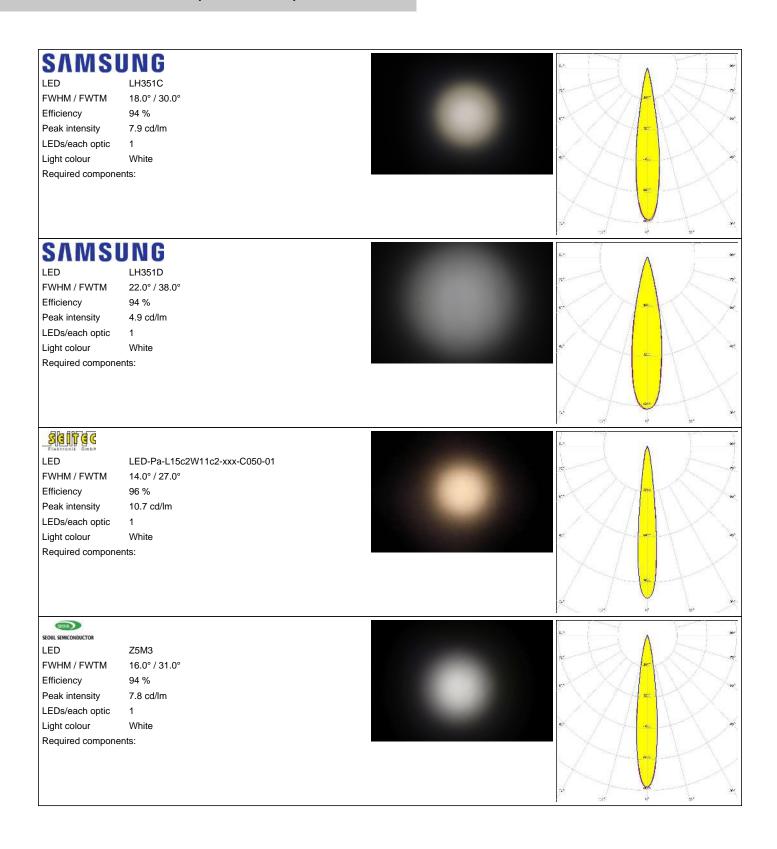
LEDs/each optic 1

Light colour White

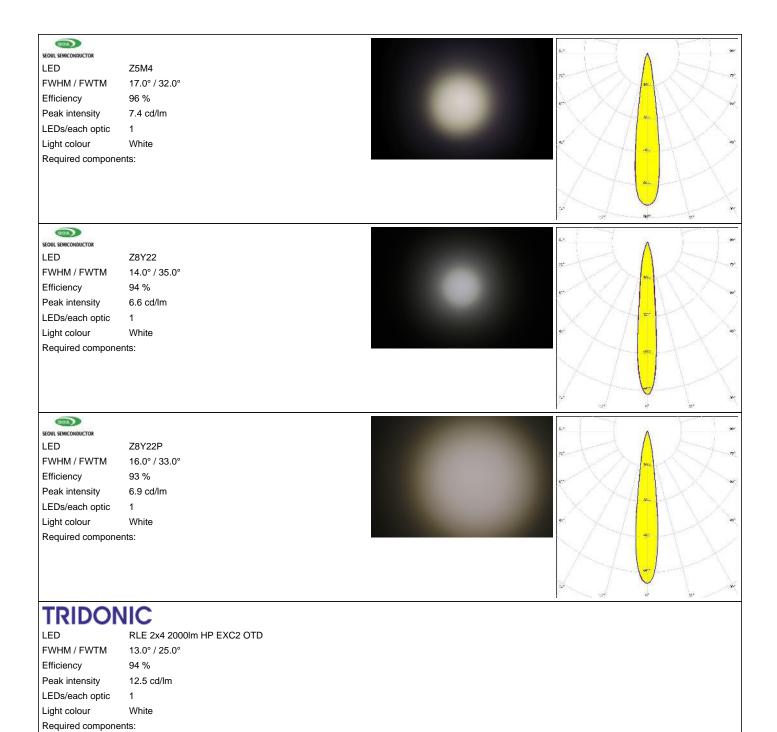
Required components:













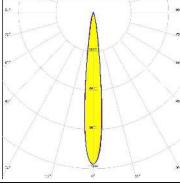
# **TRIDONIC**

LED RLE 2x8 4000lm HP EXC2 OTD

FWHM / FWTM 13.0° / 25.0° Efficiency 94 % Peak intensity 12.5 cd/lm LEDs/each optic 1

Light colour White Required components:



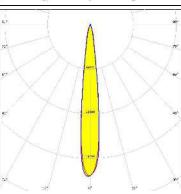


## **TRIDONIC**

LED RLE G1 49x121mm 2000lm xxx EXC OTD

FWHM / FWTM 13.0° / 27.0°
Efficiency 94 %
Peak intensity 10.9 cd/lm
LEDs/each optic 1

Light colour White Required components:

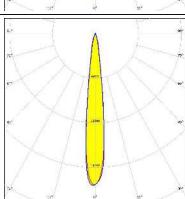


### TRIDONIC

LED RLE G1 49x133mm 2000lm xxx EXC OTD

FWHM / FWTM 13.0° / 27.0° Efficiency 94 % Peak intensity 10.9 cd/lm

LEDs/each optic 1
Light colour White
Required components:

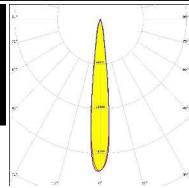


# **TRIDONIC**

Required components:

LED RLE G1 49x223mm 4000lm xxx EXC OTD

FWHM / FWTM 13.0° / 27.0°
Efficiency 94 %
Peak intensity 10.9 cd/lm
LEDs/each optic 1
Light colour White



12/24



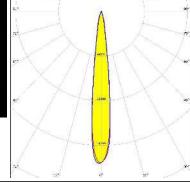
# **TRIDONIC**

Required components:

LED RLE G1 49x245mm 4000lm xxx EXC OTD

FWHM / FWTM 13.0° / 27.0°
Efficiency 94 %
Peak intensity 10.9 cd/lm
LEDs/each optic 1
Light colour White



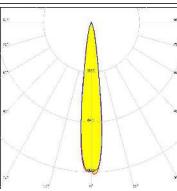




### CREE 1 LED

LED XHP35 HI
FWHM / FWTM 14.0° / 29.0°
Efficiency 93 %
Peak intensity 9.9 cd/lm
LEDs/each optic 1
Light colour White

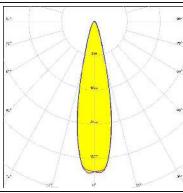
Required components:



#### CREE \$\(\phi\) LED

LED XHP35.2 HD
FWHM / FWTM 24.0° / 46.0°
Efficiency 93 %
Peak intensity 3.6 cd/lm
LEDs/each optic 1
Light colour White

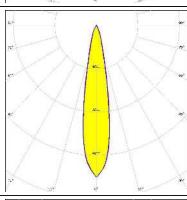
Required components:



#### CREE - LED

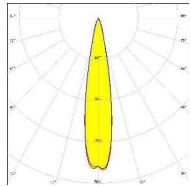
LED XM-L
FWHM / FWTM 19.0° / 38.0°
Efficiency 92 %
Peak intensity 5.6 cd/lm
LEDs/each optic 1
Light colour White

Required components:



#### CREE - LED

LED XM-L2
FWHM / FWTM 18.0° / 34.0°
Efficiency 94 %
Peak intensity 6.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:





### CREE - LED

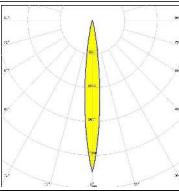
 LED
 XP-E2

 FWHM / FWTM
 12.0° / 26.0°

 Efficiency
 95 %

 Peak intensity
 14.4 cd/lm

LEDs/each optic 1
Light colour Red
Required components:



#### CREE - LED

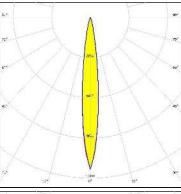
 LED
 XP-G

 FWHM / FWTM
 13.0° / 27.0°

 Efficiency
 93 %

 Peak intensity
 12.1 cd/lm

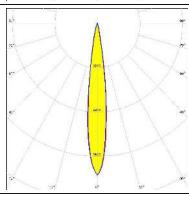
LEDs/each optic 1
Light colour White
Required components:



#### CREE + LED

LED XP-G2
FWHM / FWTM 14.0° / 26.0°
Efficiency 89 %
Peak intensity 11 cd/lm
LEDs/each optic 1
Light colour White

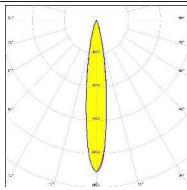
Protective plate, glass



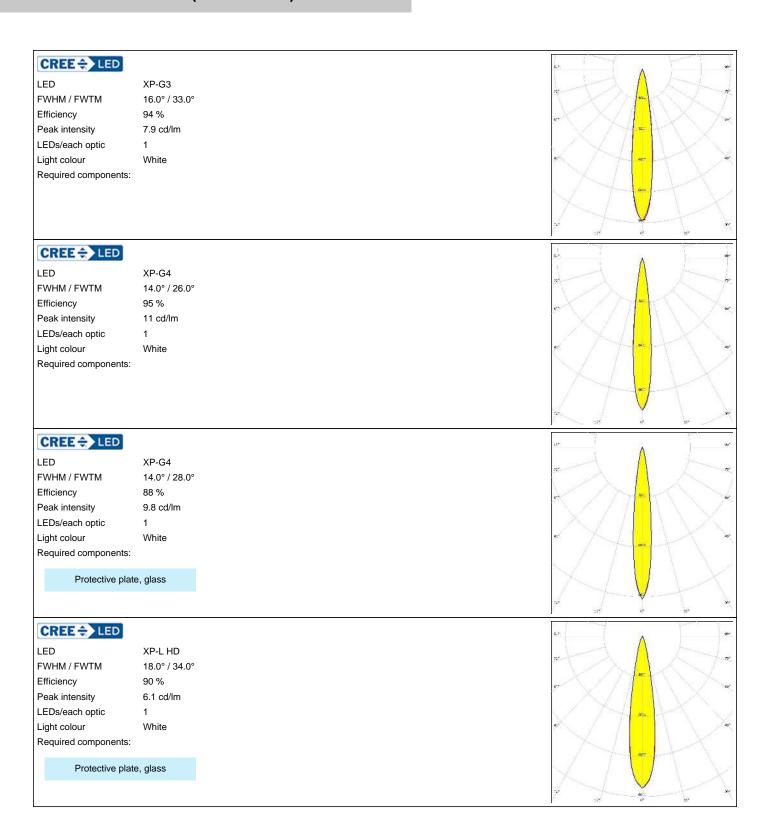
#### CREE & LED

Required components:

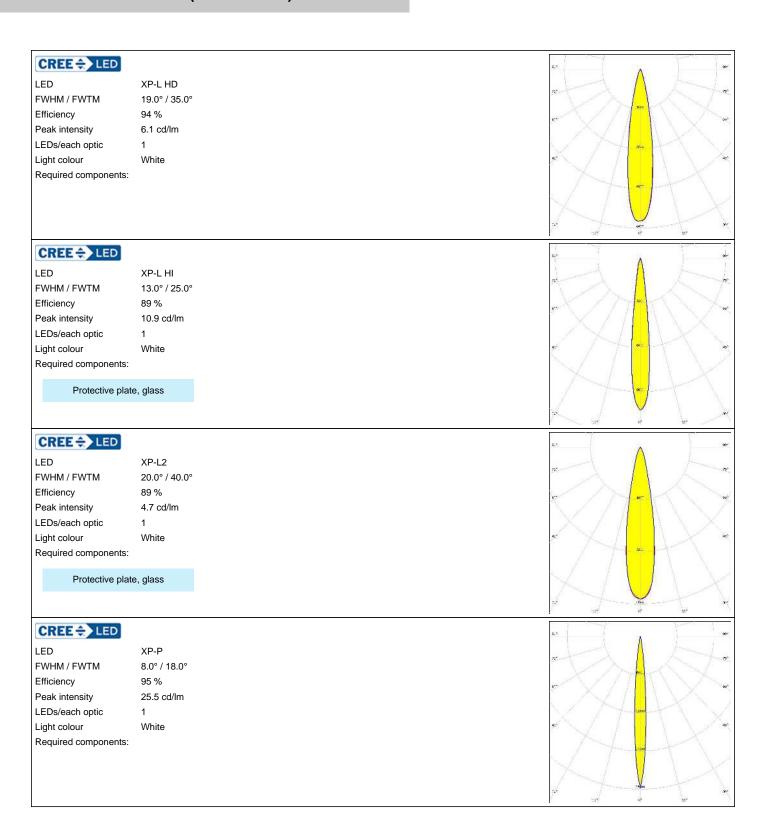
LED XP-G2 HE
FWHM / FWTM 16.0° / 34.0°
Efficiency 94 %
Peak intensity 7.3 cd/lm
LEDs/each optic 1
Light colour White













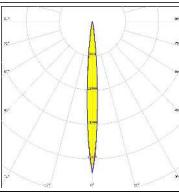
White



LED XQ-E HI
FWHM / FWTM 8.0° / 18.0°
Efficiency 94 %
Peak intensity 28.3 cd/lm
LEDs/each optic 1

Required components:

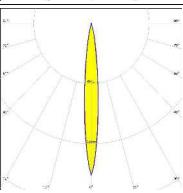
Light colour



#### **MUMILEDS**

LED LUXEON C
FWHM / FWTM 11.0° / 24.0°
Efficiency 94 %
Peak intensity 16.2 cd/lm
LEDs/each optic 1

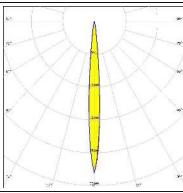
Light colour White Required components:



### **BLUMILEDS**

LED LUXEON CZ
FWHM / FWTM 8.0° / 16.0°
Efficiency 93 %
Peak intensity 29.6 cd/lm
LEDs/each optic 1

Light colour White Required components:



## **UMILEDS**

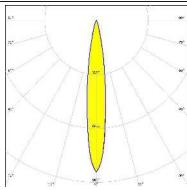
LED LUXEON HL2X
FWHM / FWTM 14.0° / 30.0°

Efficiency 95 %

Peak intensity 9 cd/lm

LEDs/each optic 1

Light colour White



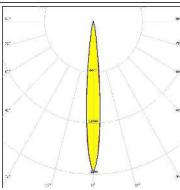




LED LUXEON IR Domed 150 (L1I0-0xxx150000000)

FWHM / FWTM 11.0° / 21.0°
Efficiency 94 %
Peak intensity 19.1 cd/lm
LEDs/each optic 1
Light colour White

Required components:

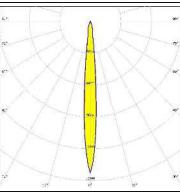


### **DUMILEDS**

LED LUXEON IR Domed 60 (L1I0-0xxx060000000)

FWHM / FWTM 10.0° / 20.0°
Efficiency 93 %
LEDs/each optic 1
Light colour White

Required components:



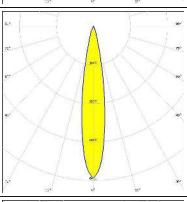
#### **UMILEDS**

LED LUXEON XR-HL2X (L2H2-xxxxxxxMLU010)

FWHM / FWTM 18.0° / 34.0°
Efficiency 88 %
Peak intensity 6.3 cd/lm
LEDs/each optic 1
Light colour White

Protective plate, glass

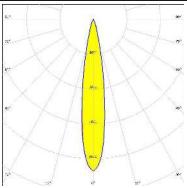
Required components:



### **BLUMILEDS**

LED LUXEON XR-HL2X (L2H2-xxxxxxxMLU010)

FWHM / FWTM 18.0° / 34.0°
Efficiency 95 %
Peak intensity 7 cd/lm
LEDs/each optic 1
Light colour White



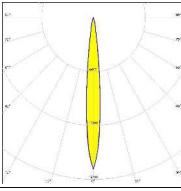


# OSRAM Opto Semiconductors

LED OSCONIQ C 2424 FWHM / FWTM 10.0° / 20.0 + 21.0°

Efficiency 96 % Peak intensity 18 cd/lm LEDs/each optic Light colour White

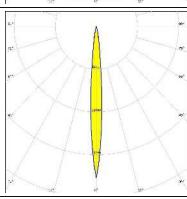
Required components:



#### **OSRAM**

LED OSCONIQ P 3030 FWHM / FWTM 8.0° / 20.0° Efficiency 95 % Peak intensity 22.7 cd/lm LEDs/each optic 1 White Light colour

Required components:



# OSRAM Opto Semiconductors

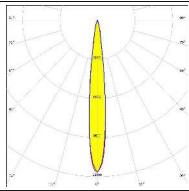
LED OSCONIQ P 3737 (2W version)

White

FWHM / FWTM 12.0° / 24.0° Efficiency 90 % Peak intensity 12.5 cd/lm LEDs/each optic 1

Light colour Required components:

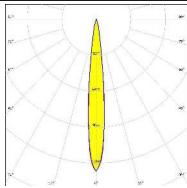
Protective plate, glass



## OSRAM Opto Semiconductors

LED OSCONIQ P 3737 (2W version)

FWHM / FWTM 12.0° / 24.0° Efficiency 95 % Peak intensity 13.5 cd/lm LEDs/each optic White Light colour



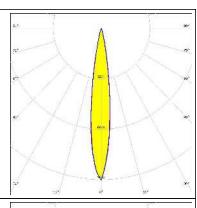


# OSRAM Opto Semiconductors

LED OSLON Square CSSRM2/CSSRM3

FWHM / FWTM 15.0° / 27.0° Efficiency 81 % Peak intensity 9.7 cd/lm LEDs/each optic Light colour White Required components:

Protective plate, glass



#### **OSRAM**

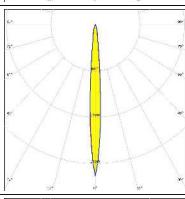
LED OSLON Square Flat FWHM / FWTM 10.0° / 20.0° Efficiency 96 % Peak intensity 19.7 cd/lm LEDs/each optic 1

White Light colour Required components:

# OSRAM Opto Semiconductors

LED OSLON SSL 80 FWHM / FWTM 8.2° / 18.8° Efficiency 94 % Peak intensity 21 cd/lm LEDs/each optic Light colour White

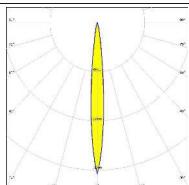
Required components:



## OSRAM Opto Semiconductors

#### LED OSTAR Projection Compact (KW.CSLNM1.TG)

FWHM / FWTM 10.0° / 20.0° Efficiency 96 % Peak intensity 19.8 cd/lm LEDs/each optic White Light colour Required components:

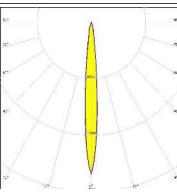




# OSRAM Opto Semiconductors

LED SFH 4715AS  $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 9.2° / 21.0°

Efficiency LEDs/each optic 1 Light colour IR Required components:

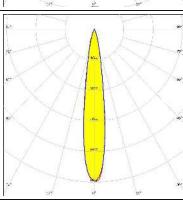


## SAMSUNG

LED LH231B FWHM / FWTM 16.0° / 34.0° Efficiency 94 %

Peak intensity 8 cd/lm LEDs/each optic 4 White Light colour

Required components:

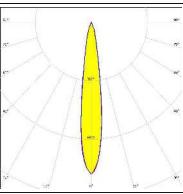


# SAMSUNG

LED LH231B FWHM / FWTM 16.0° / 32.0° Efficiency 95 % Peak intensity 8.4 cd/lm

LEDs/each optic Light colour White

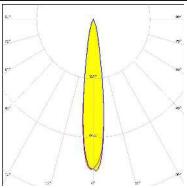
Required components:



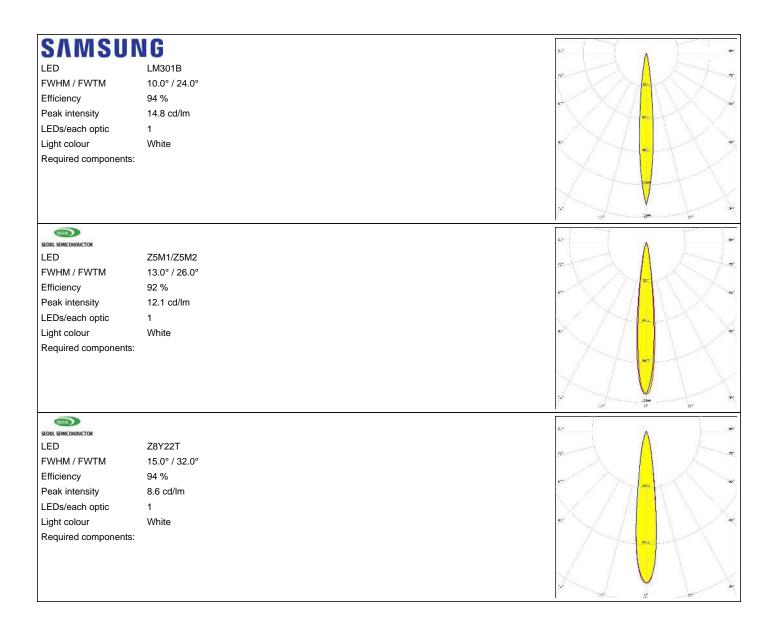
# SAMSUNG

LH231B FWHM / FWTM 16.0° / 32.0° 95 % Efficiency

Peak intensity 8.3 cd/lm LEDs/each optic White Light colour









#### **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.

#### **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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