

HB-2X2-RS

~10° spot beam

TECHNICAL SPECIFICATIONS:

Dimensions 50.0 mm

Height 10 mm

Fastening screw

ROHS compliant yes 1

MATERIAL SPECIFICATIONS:

ComponentTypeHB-2X2-RSMulti-lens



MaterialColourFinishPMMAclear

ORDERING INFORMATION:

Component

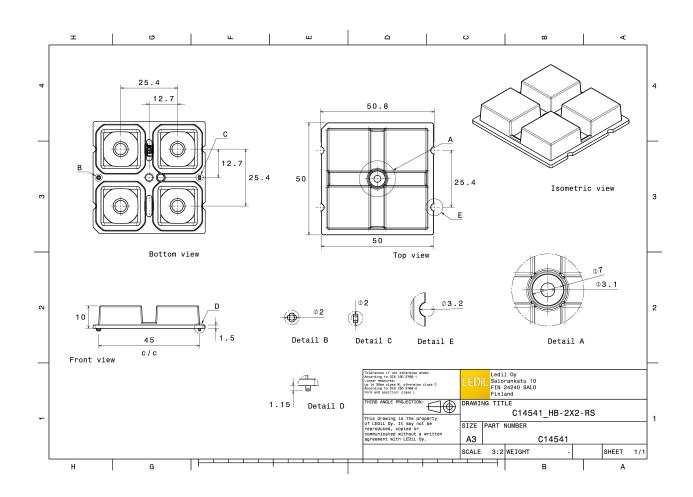
C14541_HB-2X2-RS

» Box size: 480 x 280 x 300 mm

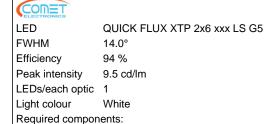
Qty in box MOQ MPQ Box weight (kg)

800 160 160 10.2

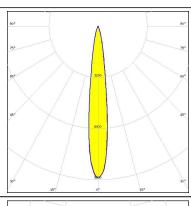




PHOTOMETRIC DATA (MEASURED):





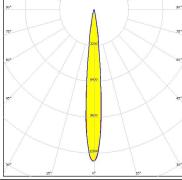


CREE \$

LED XD16
FWHM 11.0°
Efficiency 93 %
Peak intensity 13.5 cd/lm

LEDs/each optic 1 Light colour White Required components:



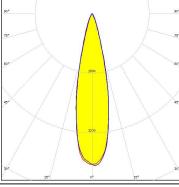


CREE 🕏

LED XHP35 HD
FWHM 24.0°
Efficiency 89 %
Peak intensity 4.1 cd/lm
LEDs/each optic 1

Light colour White Required components:



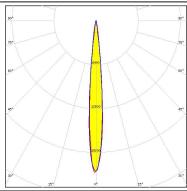


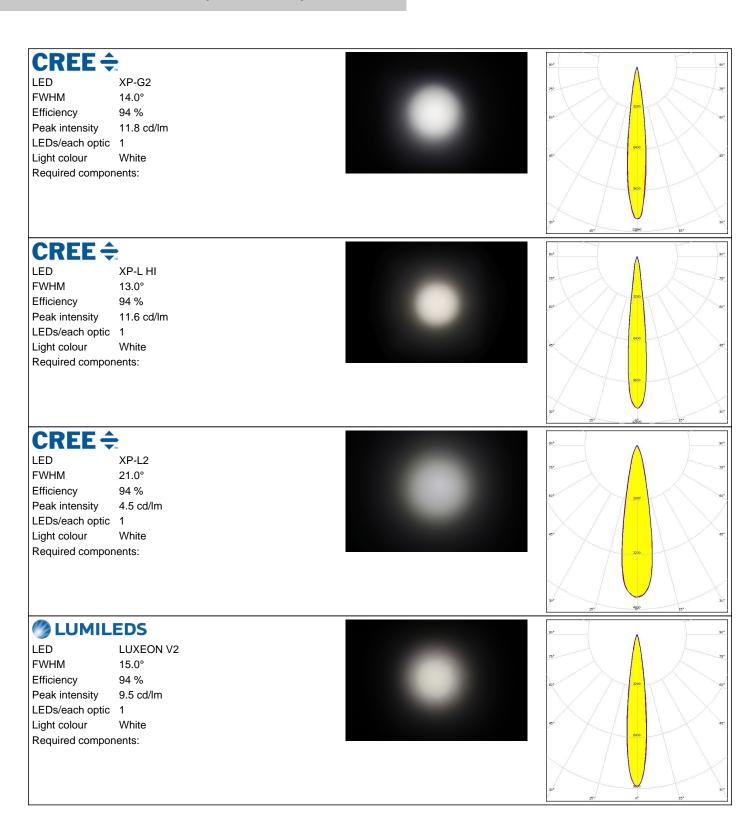
CREE 🕏

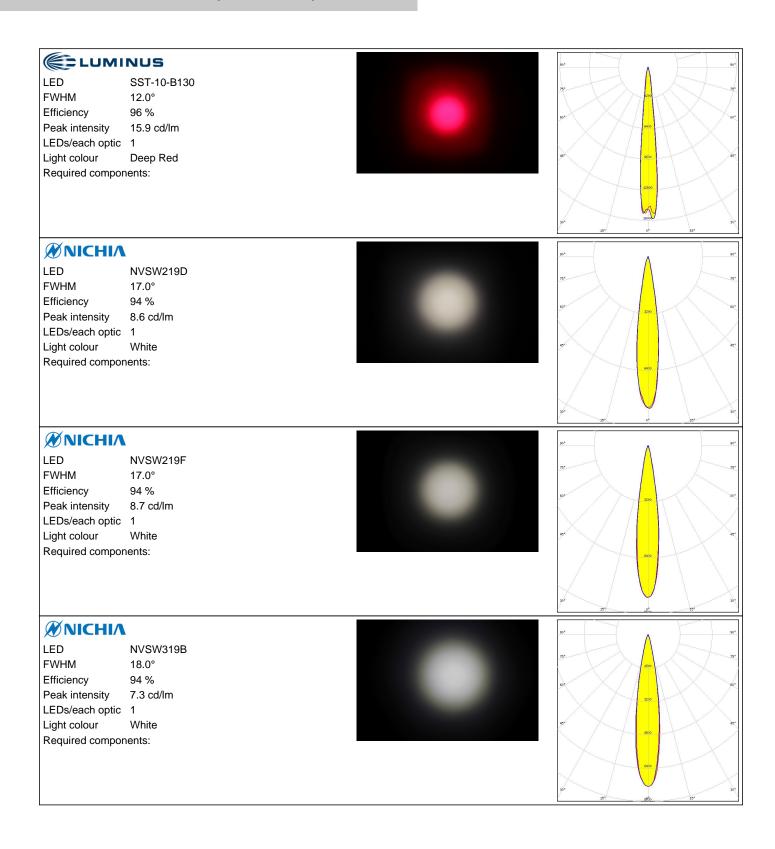
LED XP-E2
FWHM 10.0°
Efficiency 94 %
Peak intensity 22.1 cd/lm

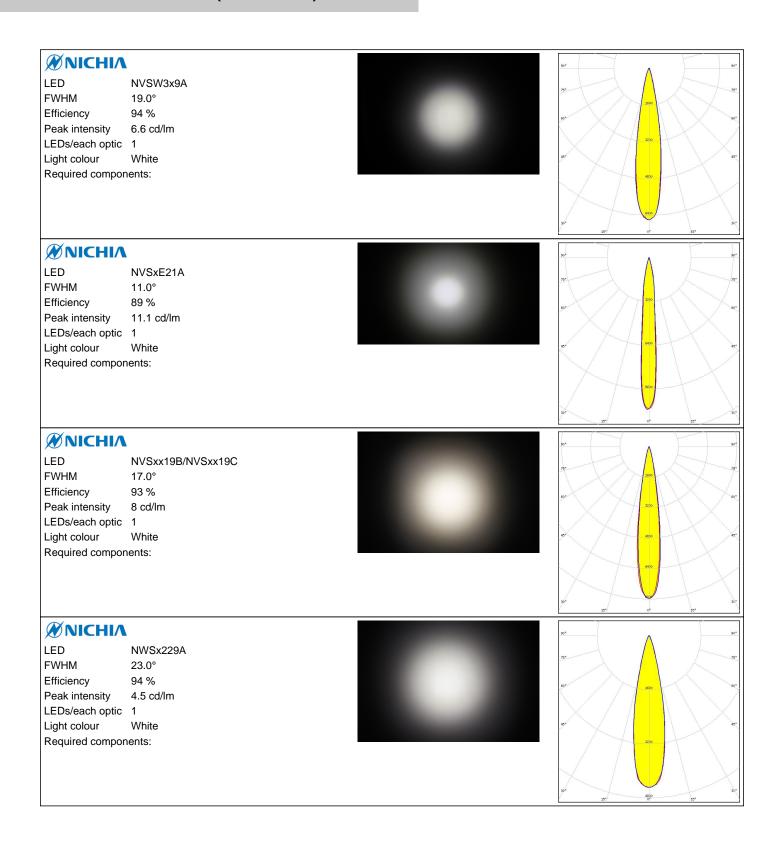
LEDs/each optic 1
Light colour White
Required components:











PHOTOMETRIC DATA (MEASURED):

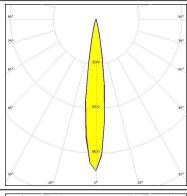
OSRAM

Opto Semiconducto

OSLON Square CSSRM2/CSSRM3

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





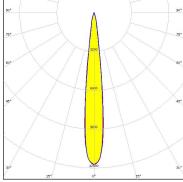
PHILIPS

LED Fortimo FastFlex LED 2x8 DA G4

FWHM 13.0°
Efficiency 93 %
Peak intensity 12.5 cd/lm
LEDs/each optic 1

LEDs/each optic 1
Light colour White
Required components:



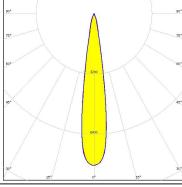


SAMSUNG

LED HILOM RH16 (LH351C)

FWHM 17.0°
Efficiency 94 %
Peak intensity 8.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:

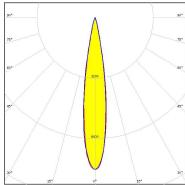


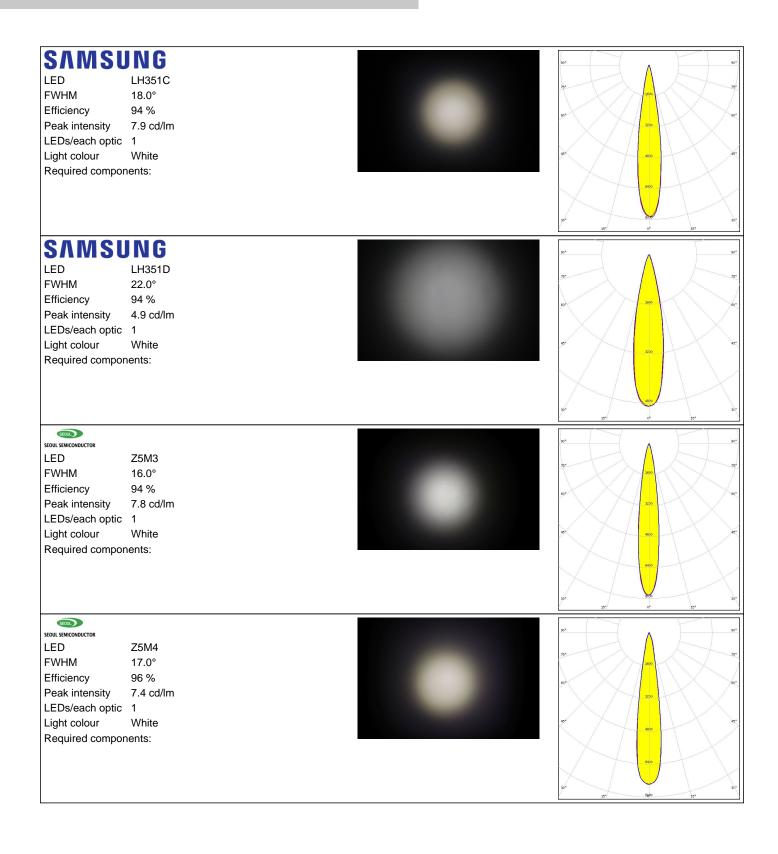


SAMSUNG

LED LH351B
FWHM 17.0°
Efficiency 89 %
Peak intensity 8 cd/lm
LEDs/each optic 1
Light colour White
Required components:







PHOTOMETRIC DATA (MEASURED):

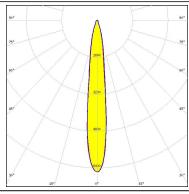


LED Z8Y22 **FWHM** 14.0° 94 % Efficiency Peak intensity 6.6 cd/lm LEDs/each optic 1

Required components:

White





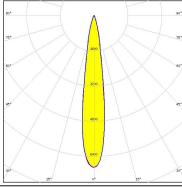
SEOUL SEOUL SEMICONDUCTOR

Light colour

LED Z8Y22P **FWHM** 16.0° 93 % Efficiency Peak intensity 6.9 cd/lm LEDs/each optic 1

White Light colour Required components:





TRIDONIC

LED RLE 2x4 2000lm HP EXC2 OTD

FWHM 13.0° Efficiency 94 % Peak intensity 12.5 cd/lm

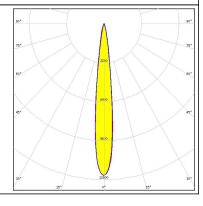
LEDs/each optic 1 Light colour White Required components:

TRIDONIC

LED RLE 2x8 4000lm HP EXC2 OTD

FWHM 13.0° Efficiency 94 % Peak intensity 12.5 cd/lm LEDs/each optic 1 White Light colour





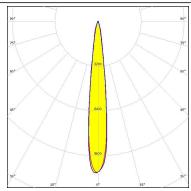
PHOTOMETRIC DATA (MEASURED):

TRIDONIC

LED RLE G1 49x121mm 2000lm xxx EXC OTD

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

LEDs/each optic 1 Light colour White Required components:

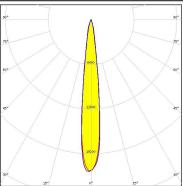


TRIDONIC

LED RLE G1 49x133mm 2000lm xxx EXC OTD

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

LEDs/each optic 1 Light colour White Required components:

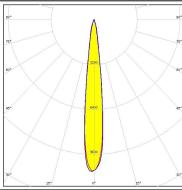


TRIDONIC

LED RLE G1 49x223mm 4000lm xxx EXC OTD

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





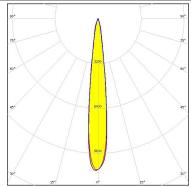
TRIDONIC

Required components:

LED RLE G1 49x245mm 4000lm xxx EXC OTD

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



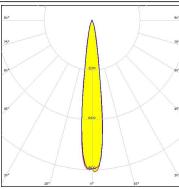


PHOTOMETRIC DATA (SIMULATED):



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

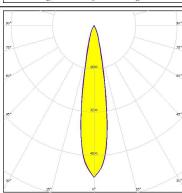
Required components:



CREE 💠

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

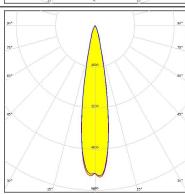
Light colour Will Required components:



CREE 🕏

LED XM-L2
FWHM 18.0°
Efficiency 94 %
Peak intensity 6.9 cd/lm
LEDs/each optic 1

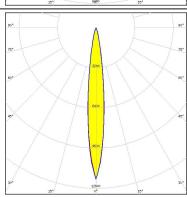
LEDs/each optic 1
Light colour White
Required components:



CREE 🕏

LED XP-G
FWHM 13.0°
Efficiency 93 %
Peak intensity 12.1 cd/lm
LEDs/each optic 1

Light colour White Required components:



PHOTOMETRIC DATA (SIMULATED):

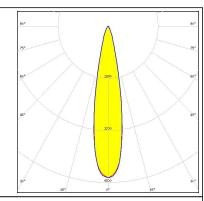
CREE \$\oplus LED\$ FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer Transparent prof			50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
CREE \$\oplus LED\$ FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer	XP-G2 HE 16.0° 94 % 7.3 cd/lm 1 White		30° 30° 30° 30° 30° 30° 30° 30° 30° 30°
CREE \$\oldsymbol{\text{LED}}\$ FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer	XP-G3 16.0° 94 % 7.9 cd/lm 1 White		3000 3000 3000 3000 3000 3000 3000 300
CREE \$\oldsymbol{\text{LED}}\$ FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer	XP-L HD 19.0° 94 % 6.1 cd/lm 1 White		90° 90° 90° 90° 90° 90° 90° 90° 90° 90°

PHOTOMETRIC DATA (SIMULATED):

CREE 💠

LED XP-L2
FWHM 20.0°
Efficiency 89 %
Peak intensity 4.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:

Transparent protective cover



CREE 🕏

 LED
 XQ-E HI

 FWHM
 8.0°

 Efficiency
 94 %

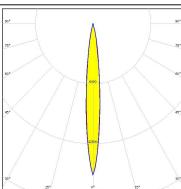
 Peak intensity
 28.3 cd/lm

LEDs/each optic 1
Light colour White
Required components:

UMILEDS

LED LUXEON C
FWHM 11.0°
Efficiency 94 %
Peak intensity 16.2 cd/lm

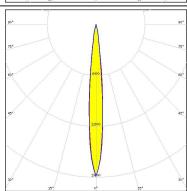
LEDs/each optic 1
Light colour White
Required components:



DESCRIPTION LUMILEDS

LED LUXEON IR Domed 150

FWHM 11.0°
Efficiency 94 %
Peak intensity 19.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:

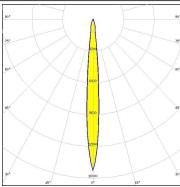


PHOTOMETRIC DATA (SIMULATED):

LUMILEDS

LED LUXEON IR Domed 60

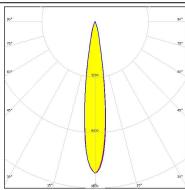
FWHM 10.0° Efficiency 93 % LEDs/each optic Light colour White Required components:



WNICHIA

LED NVSxx19B/NVSxx19C

FWHM 16.0° 94 % Efficiency Peak intensity 8.8 cd/lm LEDs/each optic 1 White Light colour Required components:



OSRAM Opto Semiconductors

LED OSCONIQ P 3030

FWHM 8.0° Efficiency 95 % Peak intensity 22.7 cd/lm LEDs/each optic Light colour White

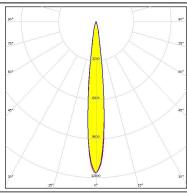
Required components:

OSRAM Opto Semiconductors

LED OSCONIQ P 3737 (2W version)

FWHM 12.0° Efficiency 90 % Peak intensity 12.5 cd/lm LEDs/each optic White Light colour

Transparent protective cover



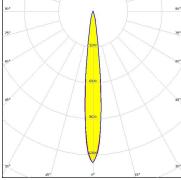
PHOTOMETRIC DATA (SIMULATED):

OSRAM

OSCONIQ P 3737 (2W version)

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

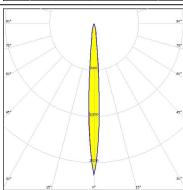
Required components:



OSRAM Opto Semiconductors

LED OSLON SSL 80

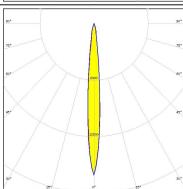
FWHM 8.2° 94 % Efficiency Peak intensity 21 cd/lm LEDs/each optic 1 Light colour White Required components:



OSRAM Opto Semiconduct

LED SFH 4715AS

FWHM 9.2° Efficiency % LEDs/each optic 1 Light colour IR Required components:



SAMSUNG

LED LH231B **FWHM** 16.0° Efficiency 94 % Peak intensity 8 cd/lm LEDs/each optic White Light colour Required components:

PHOTOMETRIC DATA (SIMULATED):

SAMSUNG

LED LH231B

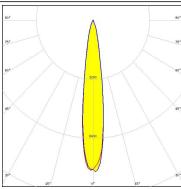
FWHM 16.0°

Efficiency 95 %

Peak intensity 8.3 cd/lm LEDs/each optic

Light colour White

Required components:



SAMSUNG

LED LH231B

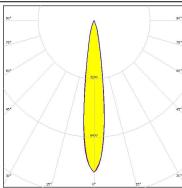
FWHM 16.0°

95 % Efficiency

Peak intensity 8.4 cd/lm LEDs/each optic 1

White Light colour

Required components:



LED

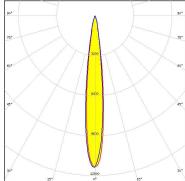
Z5M1/Z5M2 **FWHM** 13.0°

Efficiency 92 %

Peak intensity 12.1 cd/lm

LEDs/each optic Light colour White

Required components:





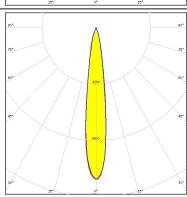
FWHM

LED

Z8Y22T 15.0°

Efficiency 94 % 8.6 cd/lm Peak intensity

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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