

HB-2X2-M

~25° medium beam optimized for CREE XP-L and XM-L

SPECIFICATION:

Dimensions 50.0 x 50.0 mm Height 8.5 mm Fastening pin, screw yes 🕕 **ROHS** compliant



MATERIALS:

Component **Type** Material Colour **Finish** HB-2X2-M Multi-lens **PMMA** clear

ORDERING INFORMATION:

Component

C14607_HB-2X2-M

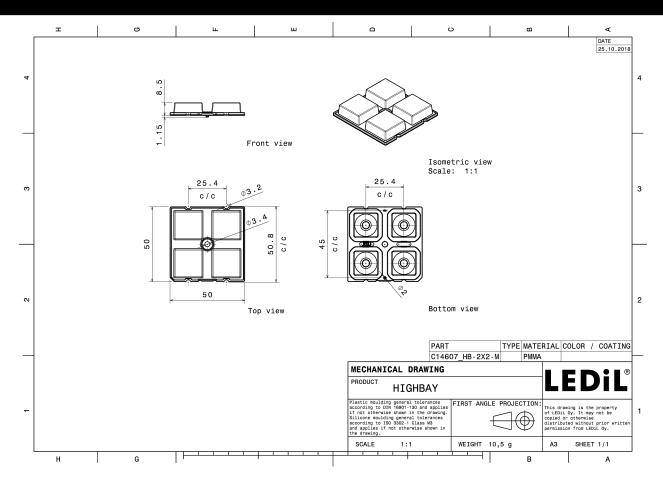
» Box size: 480 x 280 x 300 mm

Qty in box MOQ MPQ Box weight (kg) 800 160 160 9.2

Last update: 15/02/2023 Subject to change without prior notice

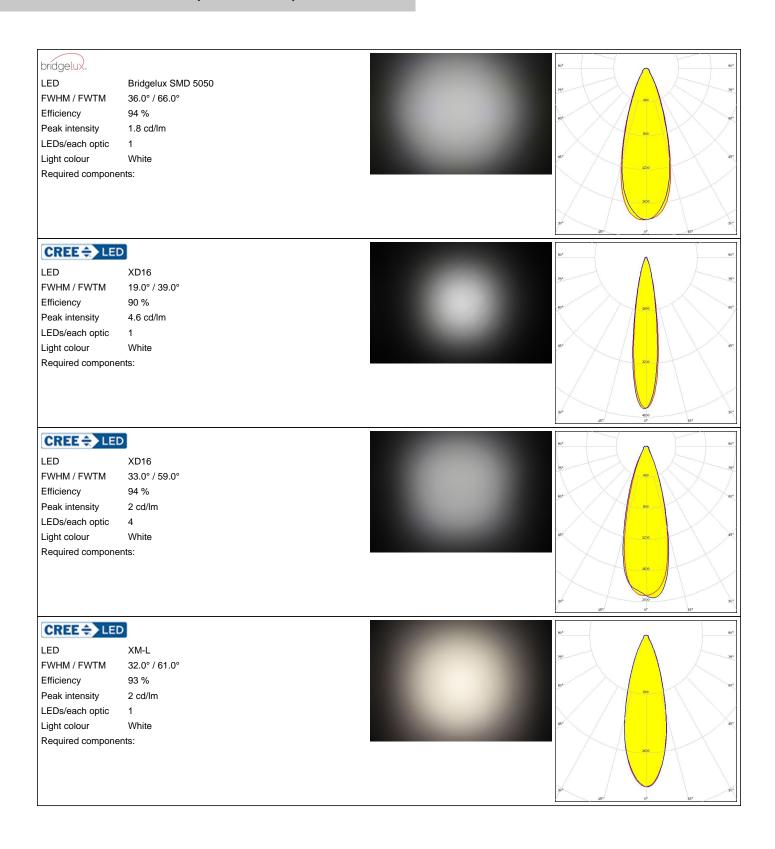


PRODUCT DATASHEET C14607_HB-2X2-M

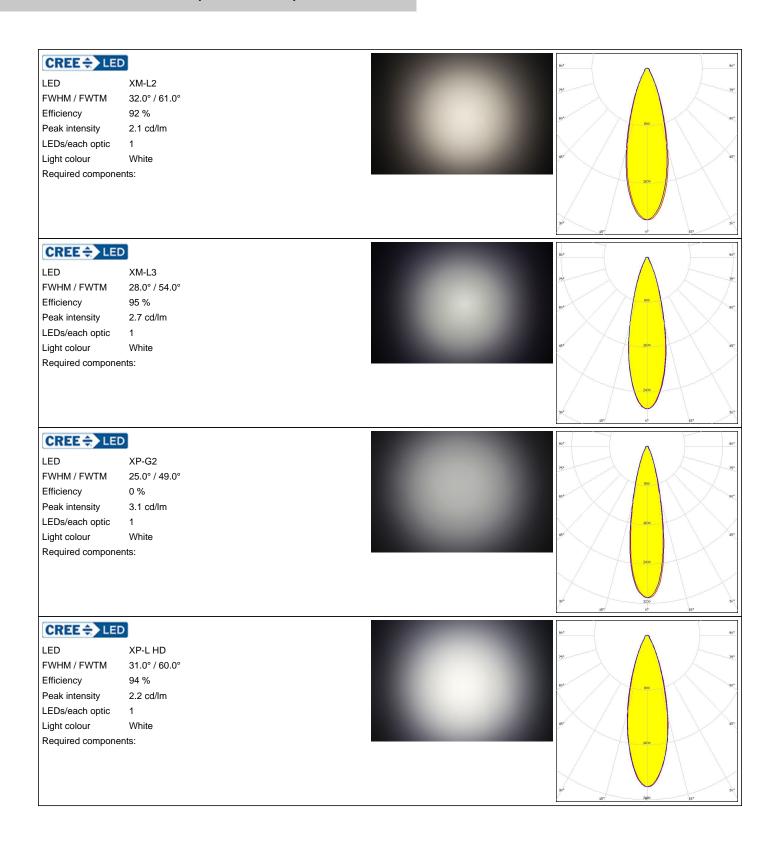


See also our general installation guide: www.ledil.com/installation_guide

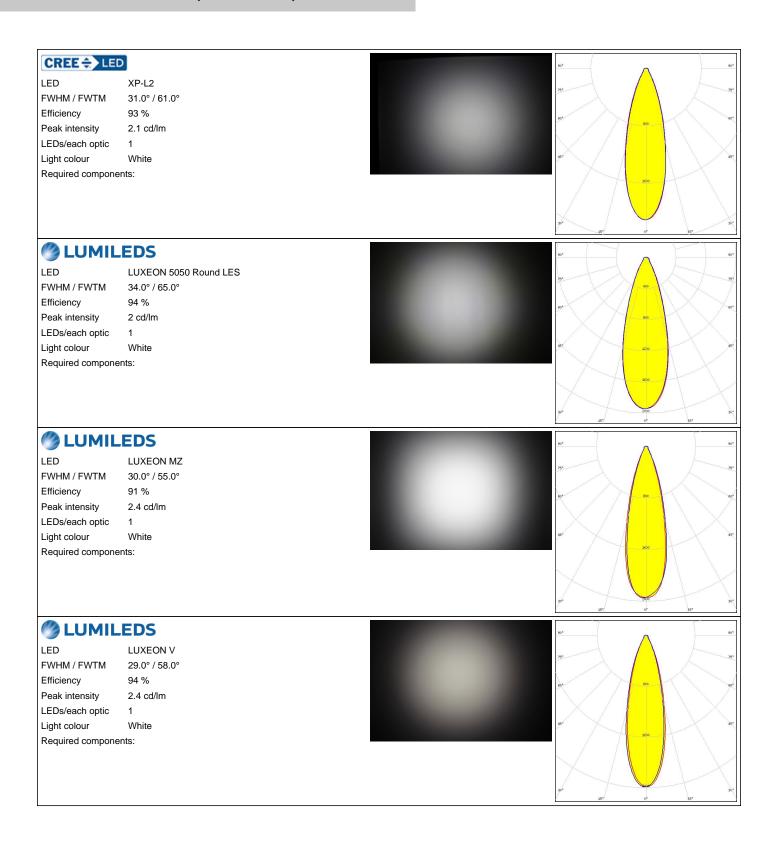




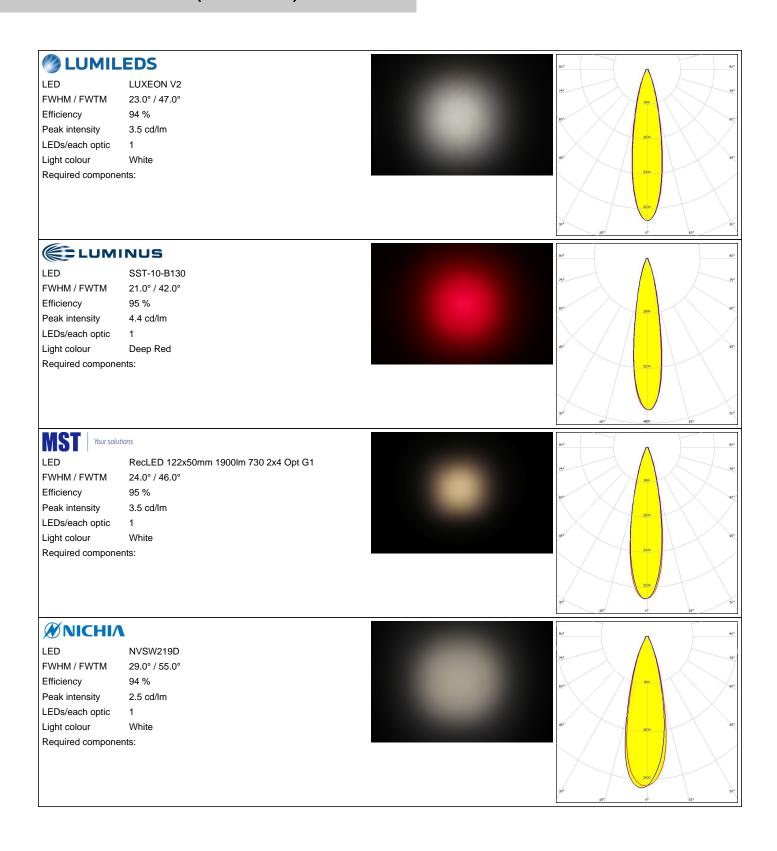




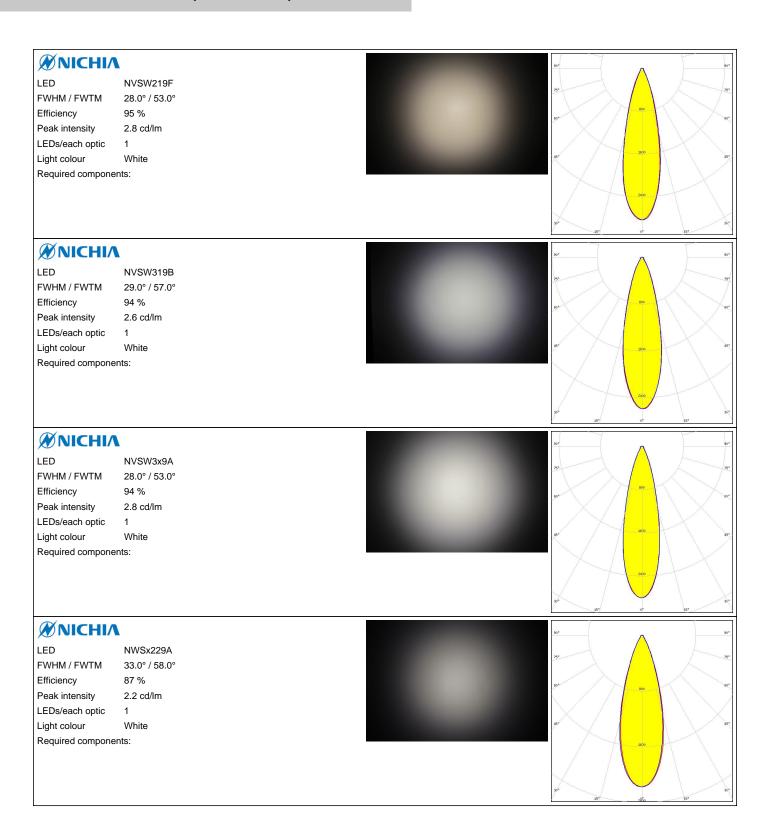




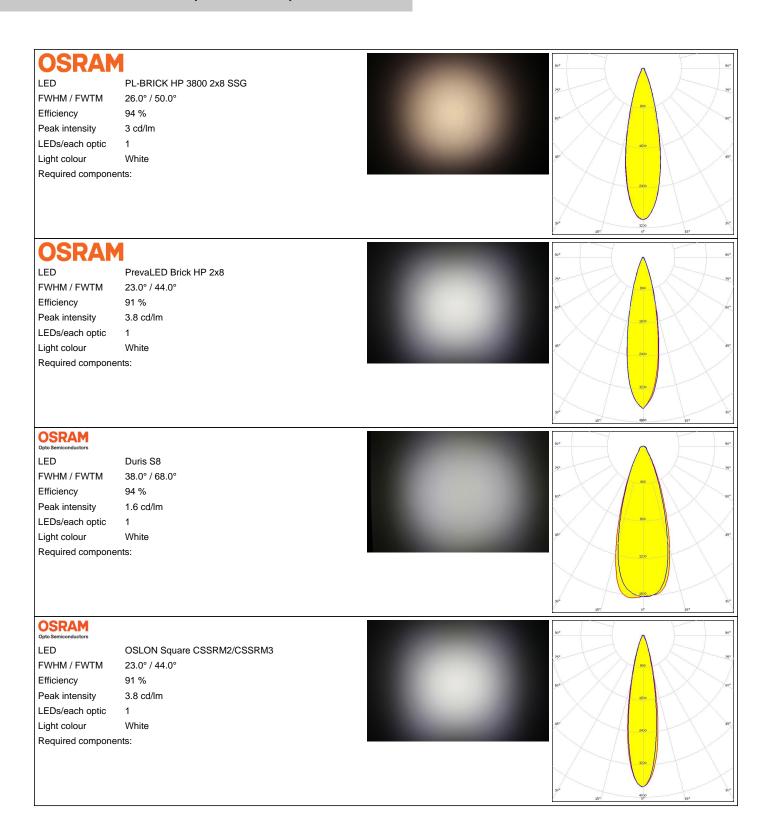










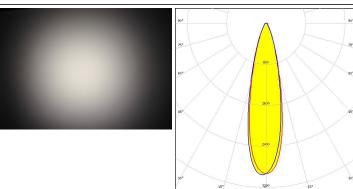




PHILIPS

LED Fortimo FastFlex LED 2x8 DA G4

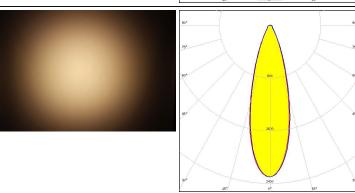
FWHM / FWTM 25.0° / 51.0°
Efficiency 92 %
Peak intensity 3 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHILIPS

LED Fortimo FastFlex LED 2x8 DA G4+

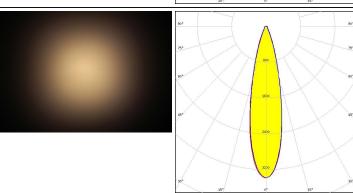
FWHM / FWTM 30.0° / 59.0°
Efficiency 96 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHILIPS

LED Fortimo FastFlex LED 2x8 DA G5

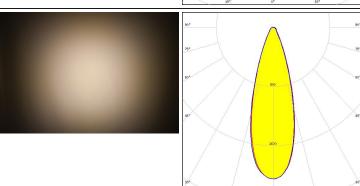
FWHM / FWTM 24.0° / 47.0°
Efficiency 94 %
Peak intensity 3.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHILIPS

LED Fortimo FastFlex LED 2x8 DA HE

FWHM / FWTM 32.0° / 61.0°
Efficiency 96 %
Peak intensity 2.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



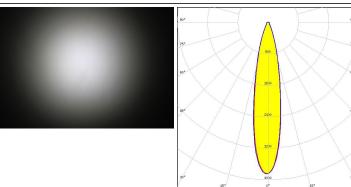


SAMSUNG

LED HILOM RC12 Z (LH181B)

FWHM / FWTM 21.0° / 45.0°
Efficiency 96 %
Peak intensity 3.9 cd/lm
LEDs/each optic 1
Light colour White

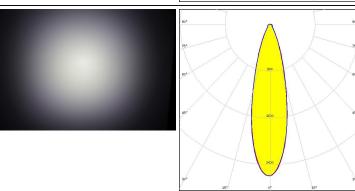
Required components:



SAMSUNG

LED HILOM RH12 Z (LH351C)

FWHM / FWTM 27.0° / 55.0°
Efficiency 95 %
Peak intensity 2.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:

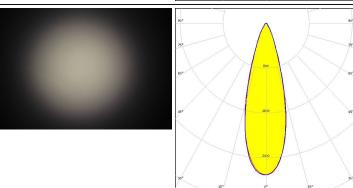


SAMSUNG

LED HILOM RH16 (LH351C)

FWHM / FWTM 30.0° / 55.0°
Efficiency 94 %
Peak intensity 2.7 cd/lm
LEDs/each optic 1
Light colour White

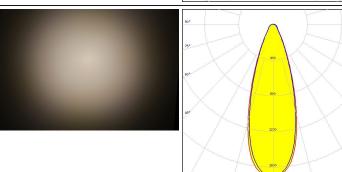
Required components:



SAMSUNG

LED HILOM RM12 Z (LH502C)

FWHM / FWTM 35.0° / 67.0°
Efficiency 95 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



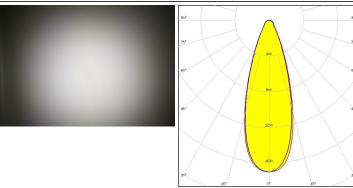


SAMSUNG

LED HILOM RM16 Z (LH502C)

FWHM / FWTM 36.0° / 68.0°
Efficiency 96 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour White

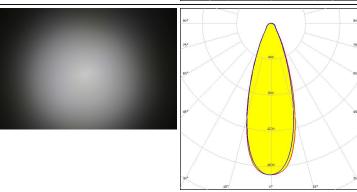
Required components:



SAMSUNG

LED HILOM RM8 Z (LH502C)

FWHM / FWTM 36.0° / 68.0°
Efficiency 96 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



SAMSUNG

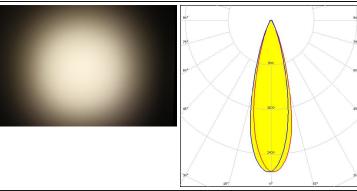
 LED
 LH351B

 FWHM / FWTM
 28.0° / 52.0°

 Efficiency
 85 %

 Peak intensity
 2.7 cd/lm

LEDs/each optic 1
Light colour White
Required components:

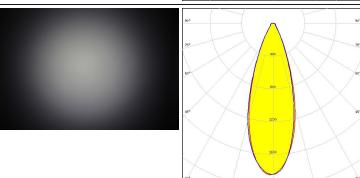


SAMSUNG

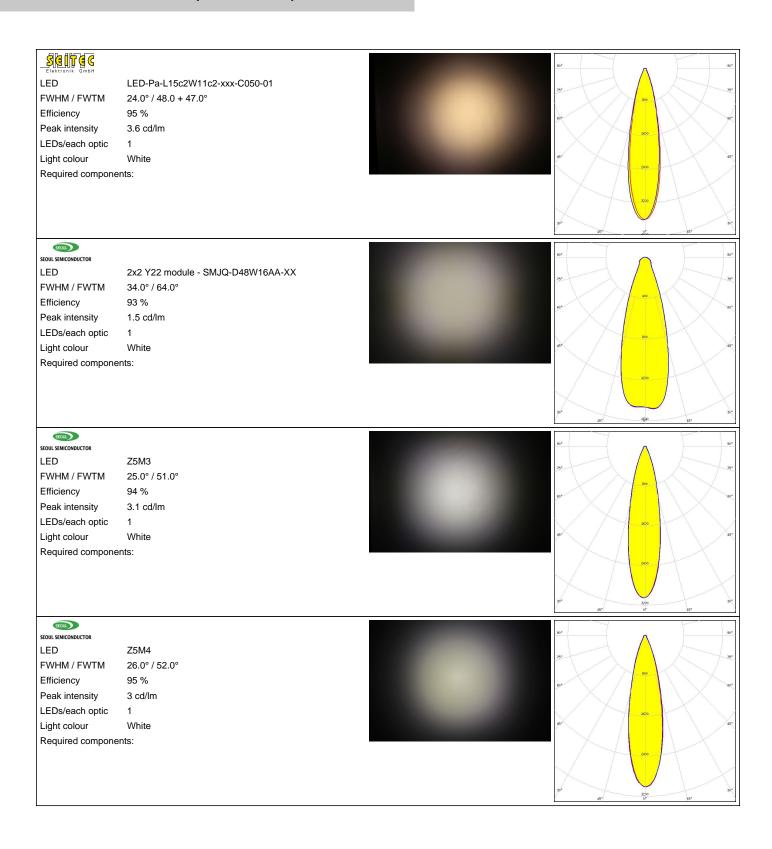
LED LH351D

FWHM / FWTM 35.0° / 64.0°
Efficiency 91 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1

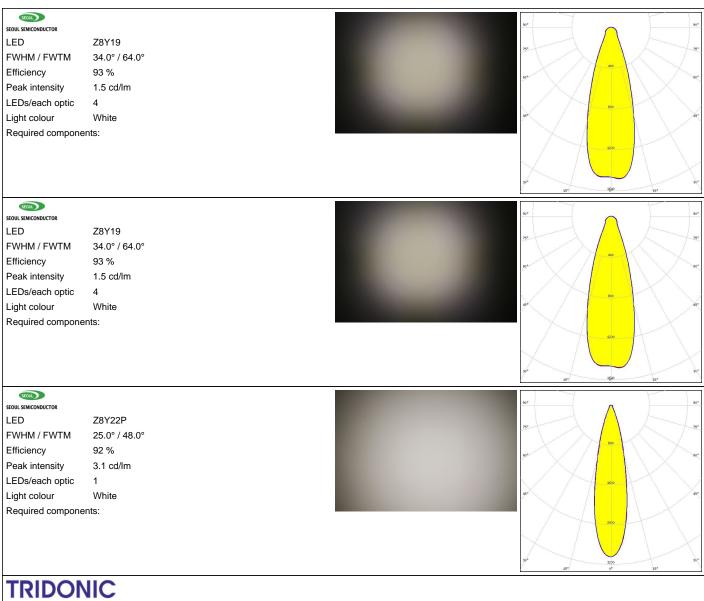
Light colour White Required components:











RLE 2x4 2000lm HP EXC2 OTD

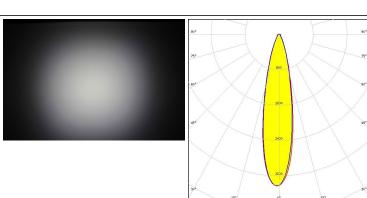
FWHM / FWTM 23.0° / 48.0° Efficiency 94 % Peak intensity 3.4 cd/lm LEDs/each optic White Light colour Required components:



TRIDONIC

LED RLE 2x8 4000lm HP EXC2 OTD

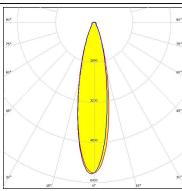
FWHM / FWTM 23.0° / 48.0°
Efficiency 94 %
Peak intensity 3.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



TRIDONIC

LED RLE G1 49x121mm 2000lm xxx EXC OTD

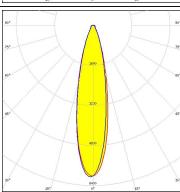
FWHM / FWTM 24.0° / 51.0°
Efficiency 94 %
Peak intensity 3 cd/lm
LEDs/each optic 1
Light colour White
Required components:



TRIDONIC

LED RLE G1 49x133mm 2000lm xxx EXC OTD

FWHM / FWTM 24.0° / 51.0°
Efficiency 94 %
Peak intensity 3 cd/lm
LEDs/each optic 1
Light colour White
Required components:

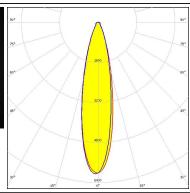


TRIDONIC

LED RLE G1 49x223mm 4000lm xxx EXC OTD

FWHM / FWTM 24.0° / 51.0°
Efficiency 94 %
Peak intensity 3 cd/lm
LEDs/each optic 1
Light colour White
Required components:



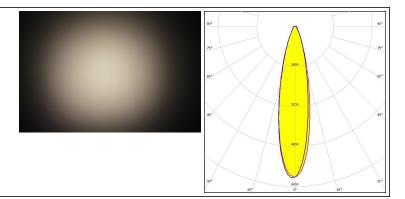




TRIDONIC

LED RLE G1 49x245mm 4000lm xxx EXC OTD

FWHM / FWTM 24.0° / 51.0°
Efficiency 94 %
Peak intensity 3 cd/lm
LEDs/each optic 1
Light colour White
Required components:





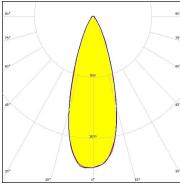
CREE - LED

LED

J Series 5050 Round LES

FWHM / FWTM 35.0° / 64.0°
Efficiency 92 %
Peak intensity 2 cd/lm
LEDs/each optic 1
Light colour White

Required components:

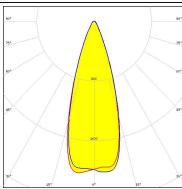


CREE - LED

LED FWHM / FWTM XP-G2 HE 35.0° / 58.0°

Efficiency 92 %
Peak intensity 2.1 cd/lm
LEDs/each optic 1
Light colour White

Required components:

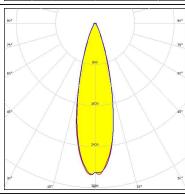


CREE - LED

LED FWHM / FWTM XP-G3 28.0° / 50.0°

Efficiency 92 %
Peak intensity 3 cd/lm
LEDs/each optic 1
Light colour White

Required components:



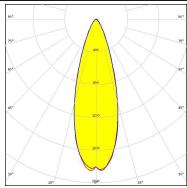
CREE - LED

LED XP-L2

FWHM / FWTM 32.0° / 62.0°
Efficiency 82 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour White

Required components:

Protective plate, glass



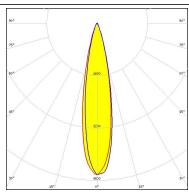




LED LUXEON 3030 2D (Round LES)

FWHM / FWTM 21.0° / 41.0°
Efficiency 91 %
Peak intensity 4.7 cd/lm
LEDs/each optic 1
Light colour White

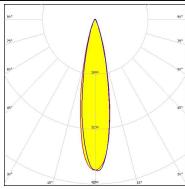
Required components:



MUMILEDS

LED LUXEON 3535 2D
FWHM / FWTM 22.0° / 42.0°
Efficiency 92 %
Peak intensity 4.5 cd/lm
LEDs/each optic 1
Light colour White

Required components:



LUMILEDS

LED LUXEON 5050 Round LES

FWHM / FWTM 34.0° / 64.0°

Efficiency 87 %

Peak intensity 1.9 cd/lm

LEDs/each optic 1

Light colour White

Required components:

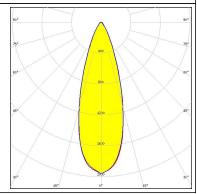
Protective plate, glass

LUMILEDS

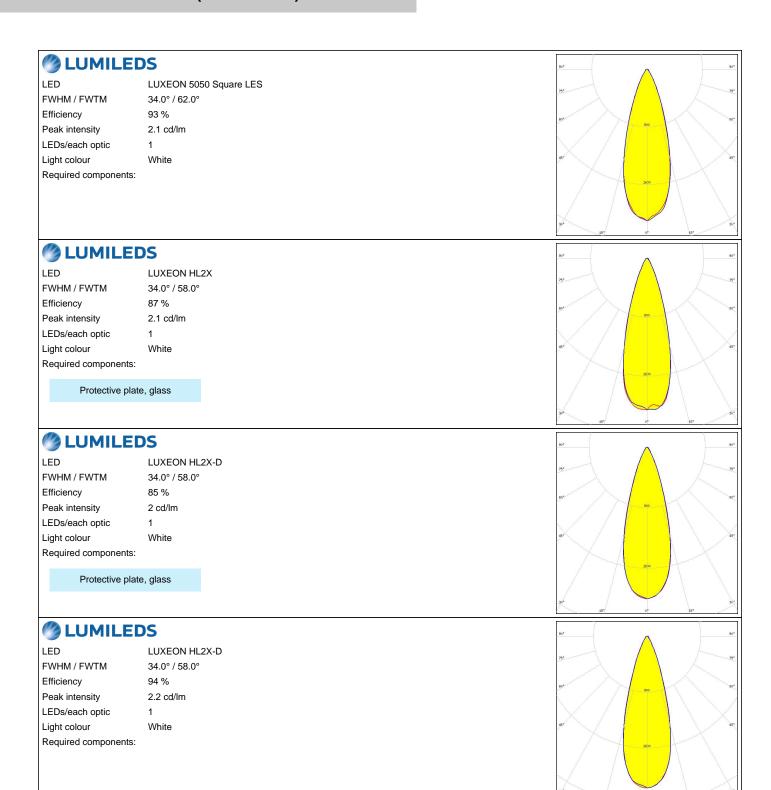
LED LUXEON 5050 Square LES

FWHM / FWTM 34.0° / 62.0°
Efficiency 88 %
Peak intensity 2 cd/lm
LEDs/each optic 1
Light colour White
Required components:

Protective plate, glass









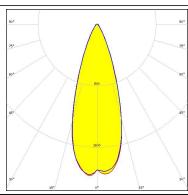


LED LUXEON HL2X-P FWHM / FWTM 36.0° / 62.0°

Efficiency 91 %
Peak intensity 2 cd/lm
LEDs/each optic 1

Light colour White

Required components:



MUMILEDS

LED LUXEON XR-HL2X (L2H2-xxxxxxxMLU010)

FWHM / FWTM 32.0° / 56.0°

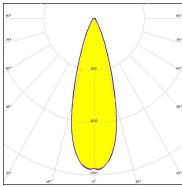
Efficiency 94 %

Peak intensity 2.3 cd/lm

LEDs/each optic 1

Light colour White

Required components:



LUMILEDS

LED LUXEON XR-HL2X (L2H2-xxxxxxMLU010)

FWHM / FWTM 32.0° / 58.0°

Efficiency 85 %

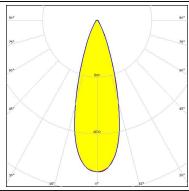
Peak intensity 2.1 cd/lm

LEDs/each optic 1

Light colour White

Required components:

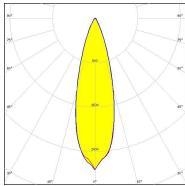
Protective plate, glass



WNICHIA

LED NV4WB35AM
FWHM / FWTM 30.0° / 54.0°
Efficiency 93 %
Peak intensity 2.7 cd/lm
LEDs/each optic 1
Light colour White

Required components:



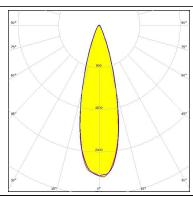




LED NVSxx19B/NVSxx19C

FWHM / FWTM 28.0° / 50.0° Efficiency 92 % Peak intensity 2.9 cd/lm LEDs/each optic Light colour White

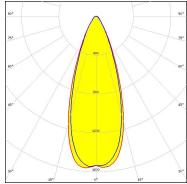
Required components:



OSRAM

LED Duris S8 FWHM / FWTM 38.0° / 69.0° Efficiency 89 % Peak intensity 1.6 cd/lm LEDs/each optic 1 White Light colour Required components:

Protective plate, glass

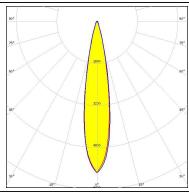


OSRAM Opto Semiconductors

LED OSCONIQ C 2424 FWHM / FWTM 19.0 + 20.0° / 36.0°

Efficiency 93 % Peak intensity 5.8 cd/lm LEDs/each optic 1 Light colour White

Required components:



OSRAM

LED

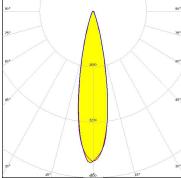
OSCONIQ P 3030 FWHM / FWTM 18.0° / 36.0° 94 % Efficiency Peak intensity 5.8 cd/lm LEDs/each optic White Light colour Required components:



OSRAM

LED OSCONIQ P 3737 (2W version)

FWHM / FWTM 22.0° / 40.0° Efficiency 92 % Peak intensity 4.4 cd/lm LEDs/each optic Light colour White Required components:



OSRAM

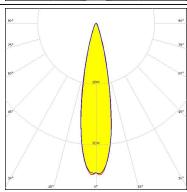
LED

OSCONIQ P 3737 (2W version)

FWHM / FWTM 22.0° / 40.0° Efficiency 87 % Peak intensity 4 cd/lm LEDs/each optic 1 White Light colour

Protective plate, glass

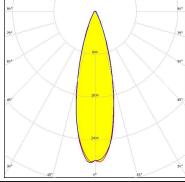
Required components:



OSRAM Opto Semiconductors

LED OSCONIQ P 3737 (3W version)

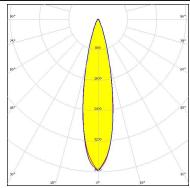
FWHM / FWTM 29.0° / 52.0° Efficiency 93 % Peak intensity 2.8 cd/lm LEDs/each optic 1 Light colour White Required components:



OSRAM

LED OSCONIQ P 3737 Flat

FWHM / FWTM 24.0° / 44.0° 93 % Efficiency Peak intensity 4 cd/lm LEDs/each optic White Light colour Required components:





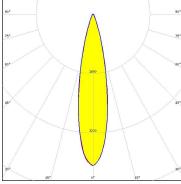
OSRAM

LED OSLON Square CSSRM2/CSSRM3

FWHM / FWTM 22.0° / 42.0° Efficiency 89 % Peak intensity 4.1 cd/lm LEDs/each optic Light colour White

Required components:

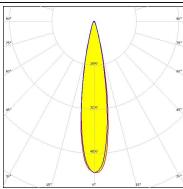
Protective plate, glass



OSRAM

LED OSLON Square Flat FWHM / FWTM 20.0° / 35.0° Efficiency 94 % Peak intensity 5.5 cd/lm LEDs/each optic 1 White Light colour

Required components:

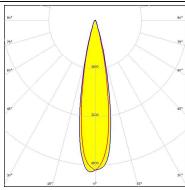


OSRAM Opto Semiconductors

LED OSTAR Projection Compact (Kx.CSLNM1.xx)

FWHM / FWTM 21.0° / 38.0° Efficiency 94 % Peak intensity 5 cd/lm LEDs/each optic Light colour White

Required components:

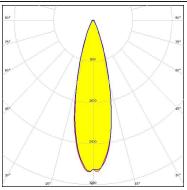


PHILIPS

Fortimo FastFlex LED 2x8 DAX G4

FWHM / FWTM 28.0° / 50.0° 92 % Efficiency Peak intensity 3 cd/lm LEDs/each optic White Light colour

Required components:





SAMSUNG

 LED
 LH231B

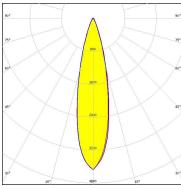
 FWHM / FWTM
 24.0° / 46.0°

 Efficiency
 92 %

 Peak intensity
 3.7 cd/lm

LEDs/each optic 4
Light colour White

Required components:



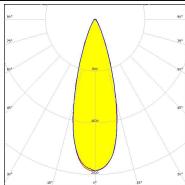
SAMSUNG

LED LH351C
FWHM / FWTM 32.0° / 56.0°
Efficiency 91 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1

White

Required components:

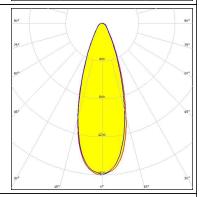
Light colour



SAMSUNG

LED LH502C
FWHM / FWTM 36.0° / 70.0°
Efficiency 89 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour White

Protective plate, glass

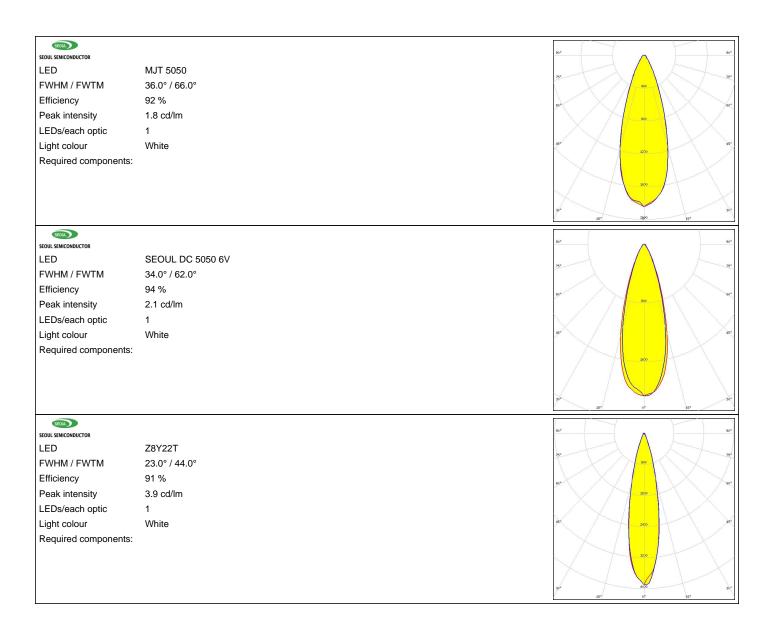


SAMSUNG

Required components:

LED LH508A Plus
FWHM / FWTM 32.0° / 62.0°
Efficiency 93 %
Peak intensity 2.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:







PRODUCT DATASHEET C14607_HB-2X2-M

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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