

HB-2X2-M

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

TECHNICAL SPECIFICATIONS:

 $\begin{array}{ccc} \text{Dimensions} & & 50.0 \text{ x } 50.0 \text{ mm} \\ \text{Height} & & 8.5 \text{ mm} \\ \text{Fastening} & & \text{pin, screw} \\ \text{ROHS compliant} & & \text{yes} \end{array}$



MATERIAL SPECIFICATIONS:

ComponentTypeMaterialColourFinishHB-2X2-MMulti-lensPMMAclear

ORDERING INFORMATION:

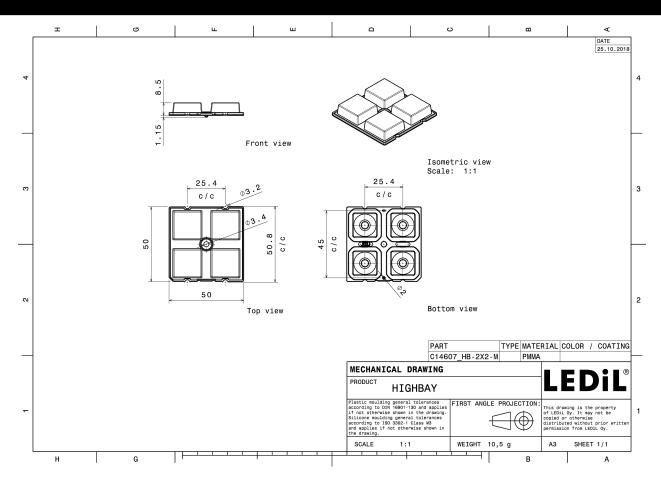
 Component
 Qty in box
 MOQ
 MPQ
 Box weight (kg)

 C14607 HB-2X2-M
 800
 160
 9.2

C14607_HB-2X2-M 800 160 160 9.2 » Box size: 480 x 280 x 300 mm

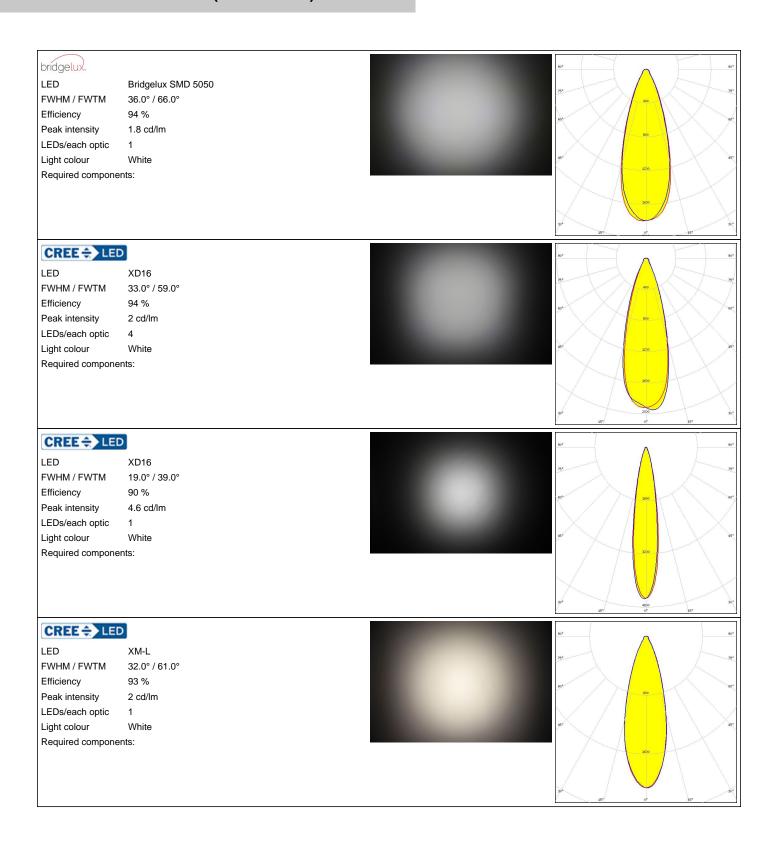


PRODUCT DATASHEET C14607_HB-2X2-M

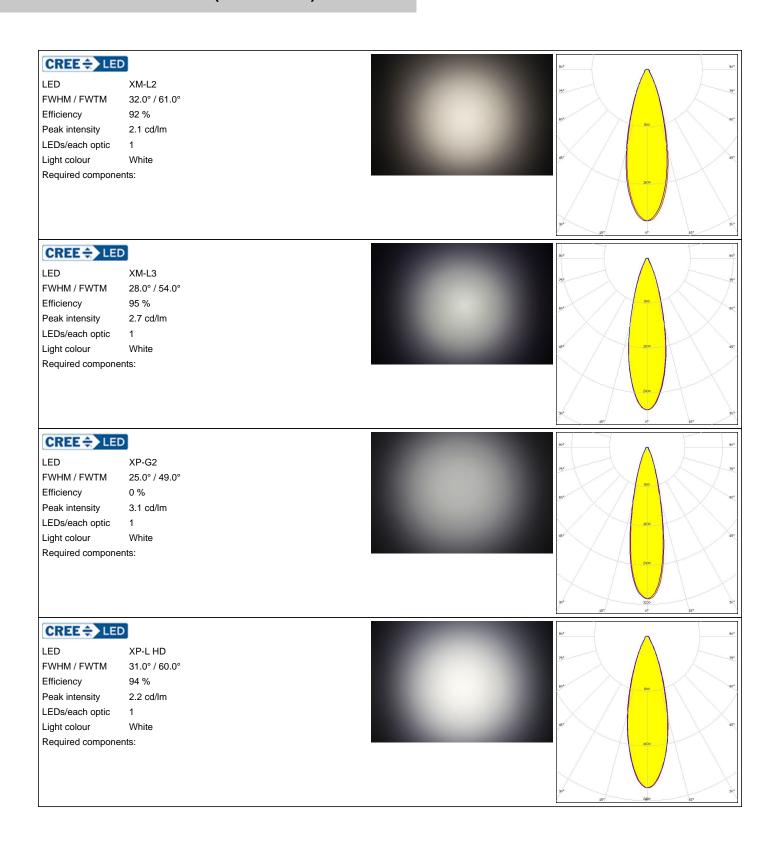


See also our general installation guide: www.ledil.com/installation_guide

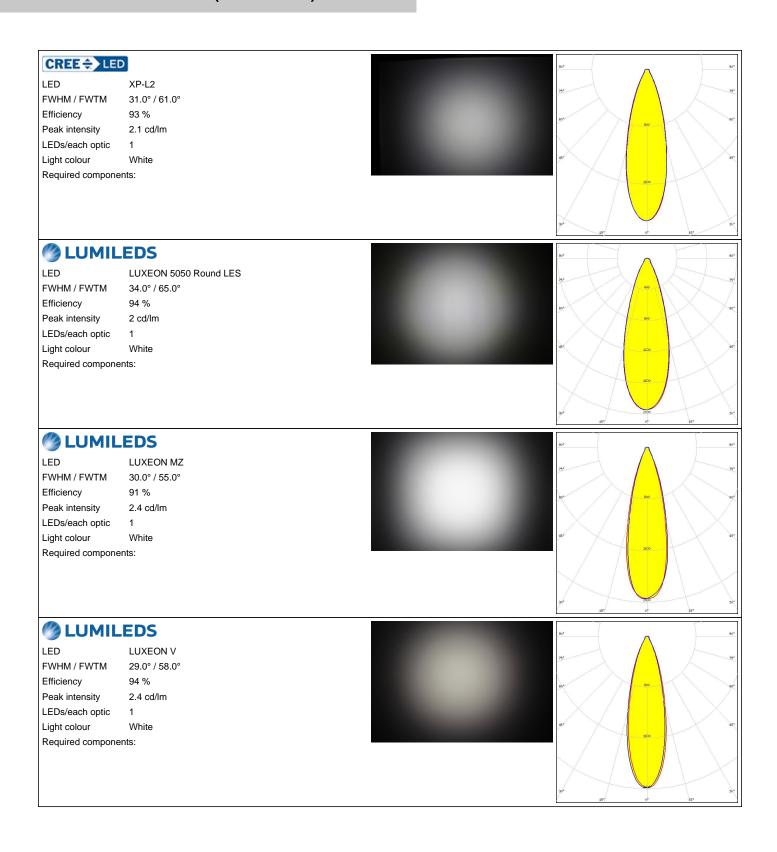




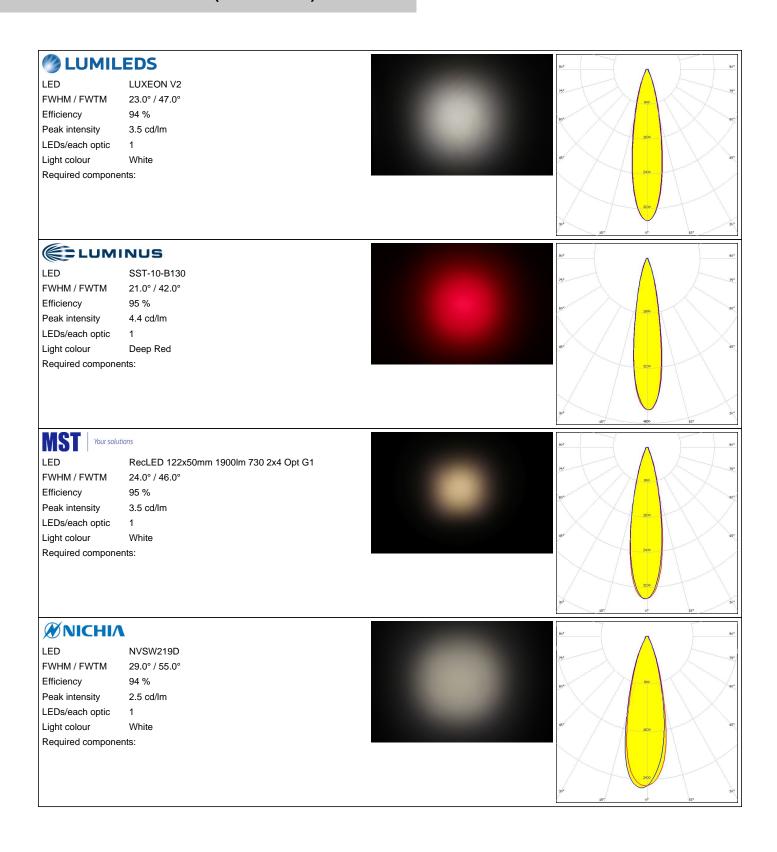




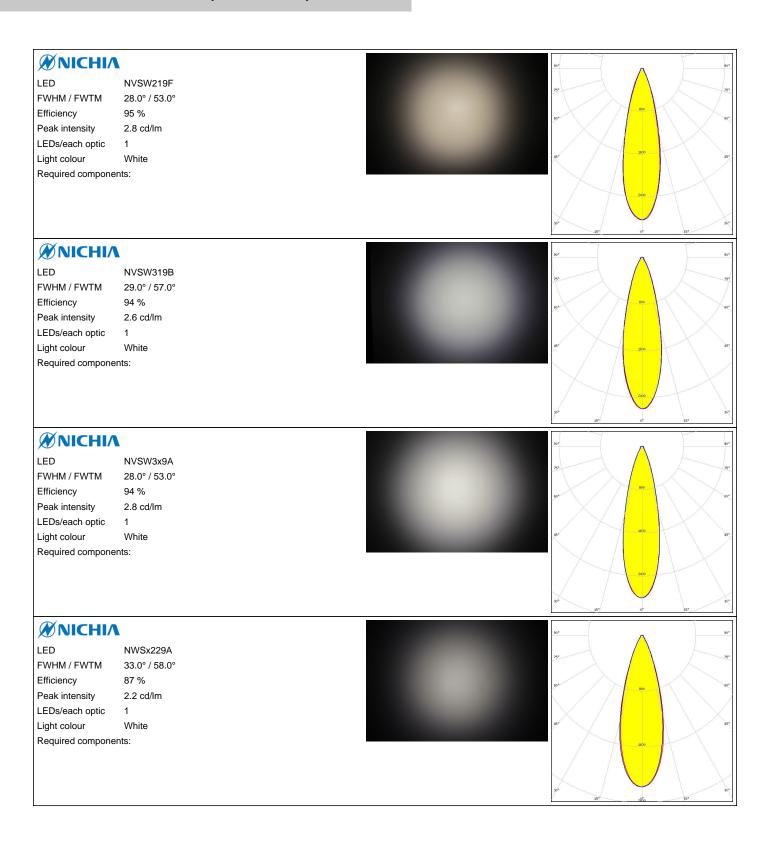




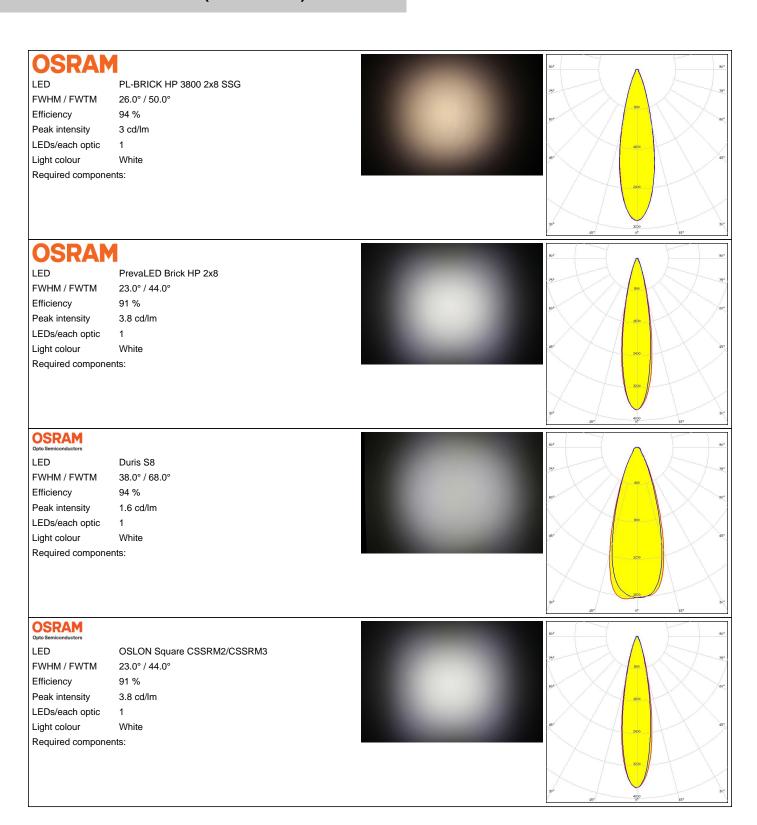










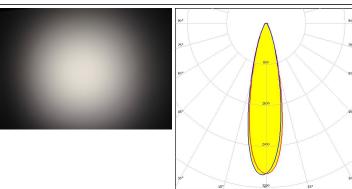




PHILIPS

LED Fortimo FastFlex LED 2x8 DA G4

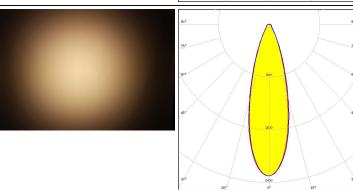
FWHM / FWTM 25.0° / 51.0°
Efficiency 92 %
Peak intensity 3 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHILIPS

LED Fortimo FastFlex LED 2x8 DA G4+

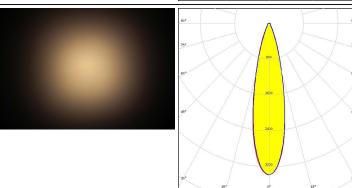
FWHM / FWTM 30.0° / 59.0°
Efficiency 96 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHILIPS

LED Fortimo FastFlex LED 2x8 DA G5

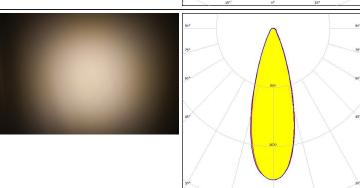
FWHM / FWTM 24.0° / 47.0°
Efficiency 94 %
Peak intensity 3.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



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:



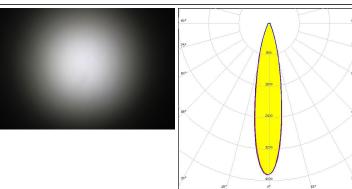


SAMSUNG

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°

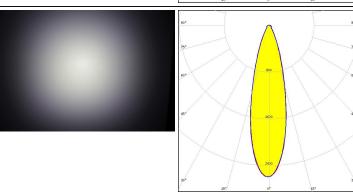
Efficiency 95 %

Peak intensity 2.6 cd/lm

LEDs/each optic 1

Light colour White

Required components:

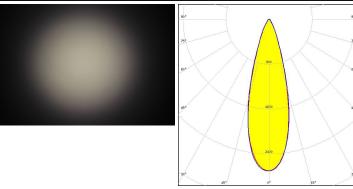


SAMSUNG

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

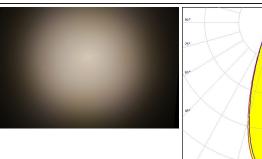
Required components:



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

HiLOM RM16 Z (LH502C)

 $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 36.0° / 68.0° Efficiency 96 % Peak intensity 1.7 cd/lm LEDs/each optic Light colour White

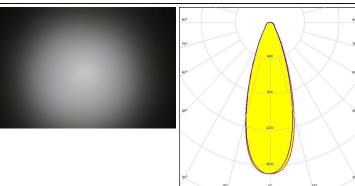
Required components:



SAMSUNG

LED HiLOM RM8 Z (LH502C)

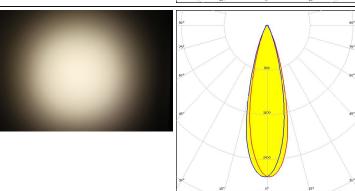
FWHM / FWTM 36.0° / 68.0° Efficiency 96 % Peak intensity 1.7 cd/lm LEDs/each optic 1 White Light colour Required components:



SAMSUNG

LED LH351B FWHM / FWTM 28.0° / 52.0° Efficiency 85 % Peak intensity 2.7 cd/lm LEDs/each optic

Light colour White Required components:

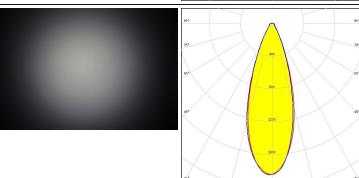


SAMSUNG

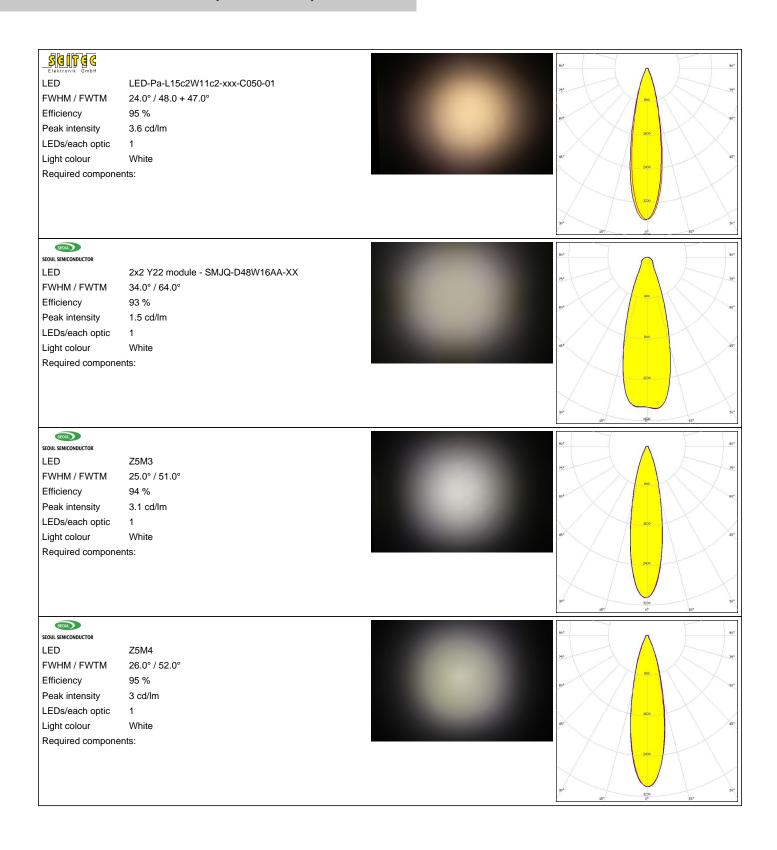
FWHM / FWTM

35.0° / 64.0° Efficiency 91 % Peak intensity 1.9 cd/lm

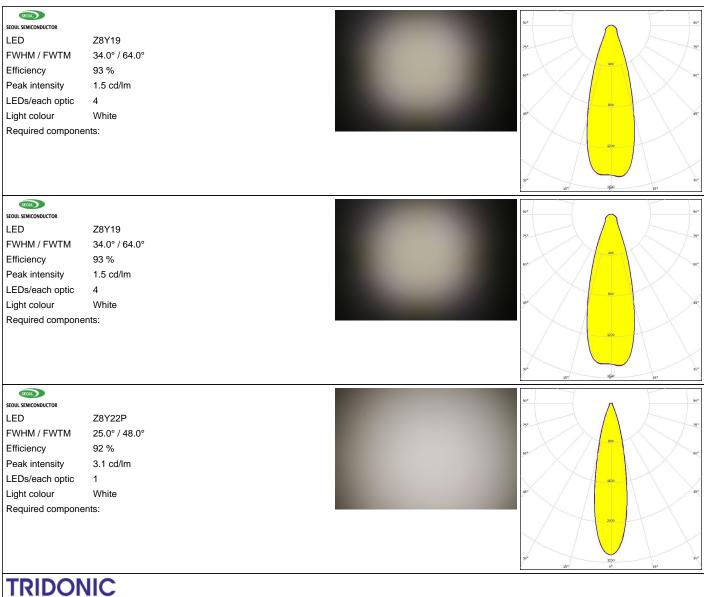
LEDs/each optic White Light colour Required components:











RLE 2x4 2000lm HP EXC2 OTD

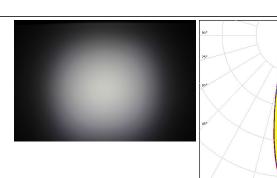
FWHM / FWTM 23.0° / 48.0° Efficiency 94 % Peak intensity 3.4 cd/lm LEDs/each optic White Light colour Required components:



TRIDONIC

LED RLE 2x8 4000lm HP EXC2 OTD

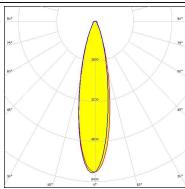
FWHM / FWTM 23.0° / 48.0°
Efficiency 94 %
Peak intensity 3.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



TRIDONIC

LED RLE G1 49x121mm 2000lm xxx EXC OTD

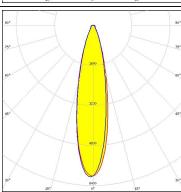
FWHM / FWTM 24.0° / 51.0°
Efficiency 94 %
Peak intensity 3 cd/lm
LEDs/each optic 1
Light colour White
Required components:



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:

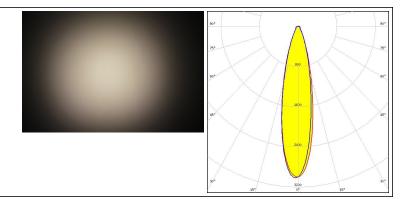




TRIDONIC

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:





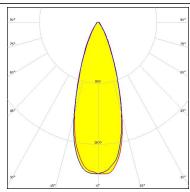
CREE . LED

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:

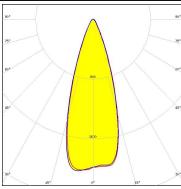


CREE \$\(\preceq\) LED

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

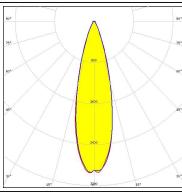
LED

XP-G3

White

FWHM / FWTM 28.0° / 50.0°
Efficiency 92 %
Peak intensity 3 cd/lm
LEDs/each optic 1

Light colour
Required components:

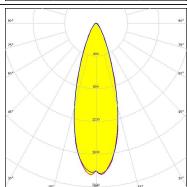


CREE - LED

.ED 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



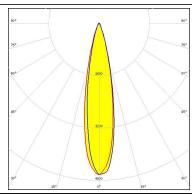




LED LUXEON 3030 2D (Round LES)

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

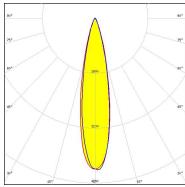
Required components:



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:

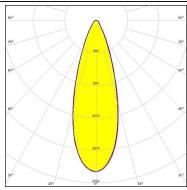


MUMILEDS

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

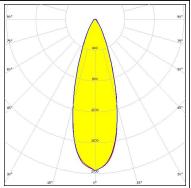


LUMILEDS

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 5050 Square LES

FWHM / FWTM 34.0° / 62.0°
Efficiency 93 %
Peak intensity 2.1 cd/lm
LEDs/each optic 1
Light colour White

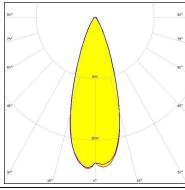
MUMILEDS

Required components:

LED LUXEON HL2X-P
FWHM / FWTM 36.0° / 62.0°
Efficiency 91 %
Peak intensity 2 cd/lm

Peak intensity 2 cd/lm
LEDs/each optic 1
Light colour White

Required components:



WNICHIA

 LED
 NV4WB35AM

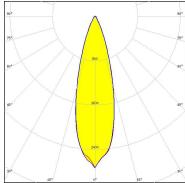
 FWHM / FWTM
 30.0° / 54.0°

 Efficiency
 93 %

 Peak intensity
 2.7 cd/lm

LEDs/each optic 1
Light colour White

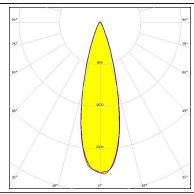
Required components:



WNICHIA

LED NVSxx19B/NVSxx19C

FWHM / FWTM 28.0° / 50.0°
Efficiency 92 %
Peak intensity 2.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:





OSRAM

LED

Duris S8

FWHM / FWTM

38.0° / 69.0°

Efficiency

89 %

Peak intensity

1.6 cd/lm

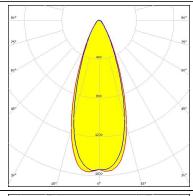
LEDs/each optic

Light colour

White

Required components:

Protective plate, glass



OSRAM

LED OSCONIQ C 2424

FWHM / FWTM

19.0 + 20.0° / 36.0°

Efficiency

93 %

Peak intensity

5.8 cd/lm

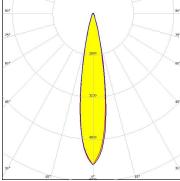
LEDs/each optic

1

Light colour

White

Required components:



OSRAM Opto Semiconductors

LED OSCONIQ P 3030

FWHM / FWTM

18.0° / 36.0°

Efficiency

94 %

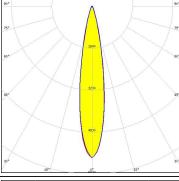
Peak intensity

5.8 cd/lm

LEDs/each optic Light colour

Required components:

1 White



OSRAM

LED

Efficiency

OSCONIQ P 3737 (2W version)

FWHM / FWTM

22.0° / 40.0°

Peak intensity

87 %

LEDs/each optic

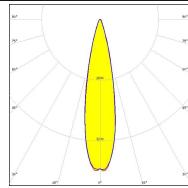
4 cd/lm

Light colour

Required components:

White

Protective plate, glass

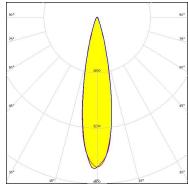




OSRAM

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

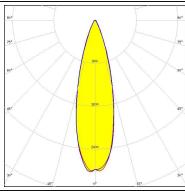


OSRAM

Required components:

LED OSCONIQ P 3737 (3W version)

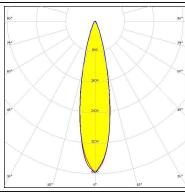
FWHM / FWTM 29.0° / 52.0° Efficiency 93 % Peak intensity 2.8 cd/lm LEDs/each optic 1 White Light colour Required components:



OSRAM Opto Semiconductor

LED OSCONIQ P 3737 Flat

FWHM / FWTM 24.0° / 44.0° Efficiency 93 % Peak intensity 4 cd/lm LEDs/each optic 1 Light colour White Required components:

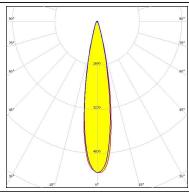


OSRAM

LED

OSLON Square Flat

FWHM / FWTM 20.0° / 35.0° 94 % Efficiency Peak intensity 5.5 cd/lm LEDs/each optic White Light colour Required components:

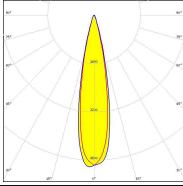




OSRAM

LED OSTAR Projection Compact (Kx.CSLNM1.xx)

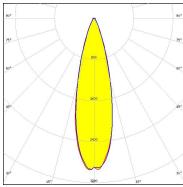
FWHM / FWTM 21.0° / 38.0° Efficiency 94 % Peak intensity 5 cd/lm LEDs/each optic Light colour White Required components:



Fortimo FastFlex LED 2x8 DAX G4 LED

FWHM / FWTM 28.0° / 50.0° Efficiency 92 % Peak intensity 3 cd/lm LEDs/each optic 1 White Light colour

Required components:



SAMSUNG

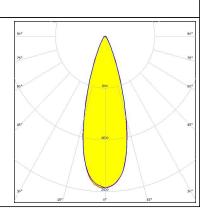
LED LH231B FWHM / FWTM 24.0° / 46.0° Efficiency 92 % Peak intensity 3.7 cd/lm LEDs/each optic 4 Light colour White

Required components:

SAMSUNG

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

Light colour Required components:



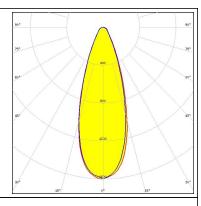


SAMSUNG

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

Required components:

Protective plate, glass



SAMSUNG

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:

SEOUL SEMICONDUCTOR

LED MJT 5050

FWHM / FWTM 36.0° / 66.0°

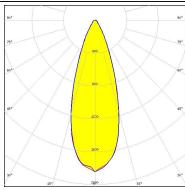
Efficiency 92 %

Peak intensity 1.8 cd/lm

LEDs/each optic 1

Light colour White

Light colour
Required components:



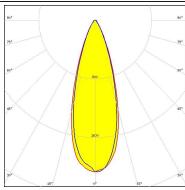
SEOUL SEMICONDUCTOR

LED SEOUL DC 5050 6V FWHM / FWTM 34.0° / 62.0°

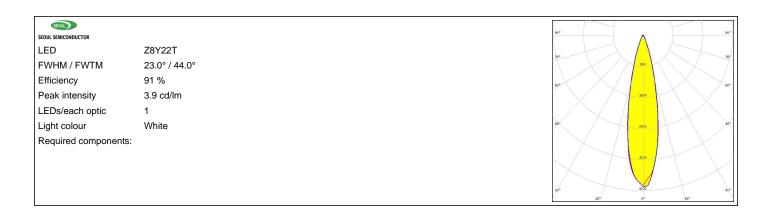
Efficiency 94 %
Peak intensity 2.1 cd/lm
LEDs/each optic 1

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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LEDIL Oy

Joensuunkatu 13 FI-24240 SALO Finland

LEDiL Inc.

228 West Page Street Suite D Sycamore IL 60178 USA

Ledil Optics Technology (Shenzhen) Co., Ltd.

405 , Block B Casic Motor Building Shenzhen 518057 P.R.CHINA

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