HB-2X2-5050-S

~25° spot beam for industrial applications

SPECIFICATION:

Dimensions 50.0 x 50.0 Height 10.4 mm Fastening screw ROHS compliant yes 10.4 mm

MATERIALS:

Component Type Material Color

HB-2X2-5050-S Multi-lens PMMA clear



ORDERING INFORMATION:

Component

C17303_HB-2X2-5050-S

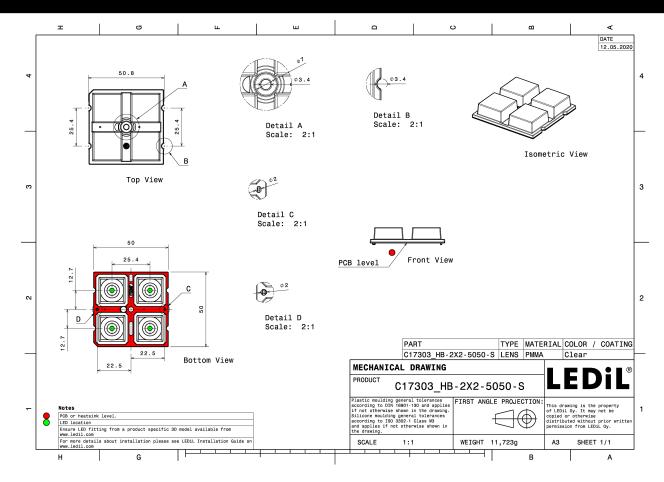
» Box size: 480 x 280 x 300 mm

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

Published: 04/08/2020



PRODUCT DATASHEET C17303_HB-2X2-5050-S



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

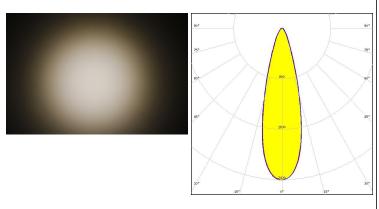


OPTICAL RESULTS (MEASURED):

UMILEDS

LED LUXEON 5050 HE Plus

FWHM / FWTM 29.0° / 56.0°
Efficiency 92 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

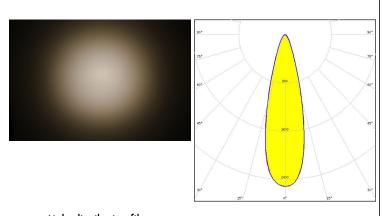


Light distribution files



LED LUXEON XR-5050 SQR (L213-xxxx016MRH001)

FWHM / FWTM 28.0° / 55.0°
Efficiency 94 %
Peak intensity 2.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED RecLED 173x50mm 2900lm 740 2x6 5050 Opt G1

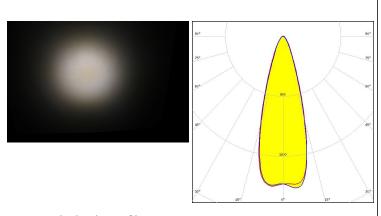
FWHM / FWTM 33.0° / 60.0°
Efficiency 94 %

Peak intensity 2 cd/lm

LEDs/each optic 1

Light colour/type White

Required components:



Light distribution files

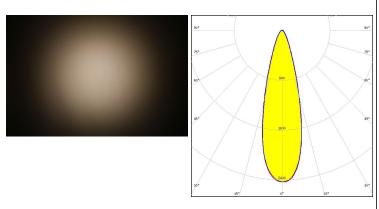


OPTICAL RESULTS (MEASURED):

PHILIPS

LED Fortimo FastFlex LED 2x8 DA (U)HE

FWHM / FWTM 29.0° / 56.0°
Efficiency 95 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

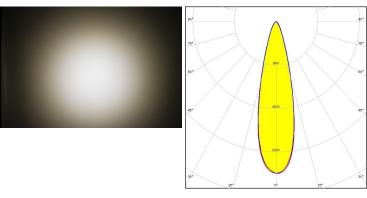


Light distribution files

TRIDONIC

LED RLE 2x8 6000lm HP HE EXC3 OTD

FWHM / FWTM 27.0° / 52.0°
Efficiency 94 %
Peak intensity 2.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

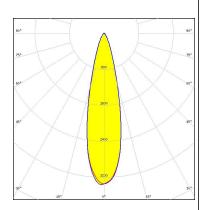




LED J Series 5050 Round LES

FWHM / FWTM 26.0° / 50.0°
Efficiency 93 %
Peak intensity 3.4 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:



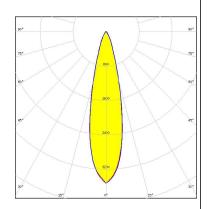
Light distribution files

CREE -

LED J Series 5050B 6V K Class

FWHM / FWTM 24.0° / 48.0°
Efficiency 92 %
Peak intensity 3.5 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:

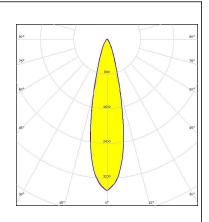


Light distribution files

CREE -

LED J Series 5050C 6V E Class

FWHM / FWTM 24.0° / 48.0°
Efficiency 92 %
Peak intensity 3.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

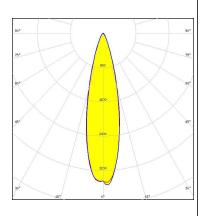


CREE -

LED XM-L RGBW (XMLDCL HI)

FWHM / FWTM 26.0° / 48.0°
Efficiency 94 %
Peak intensity 3.5 cd/lm
LEDs/each optic 1
Light colour/type RGBW

Required components:

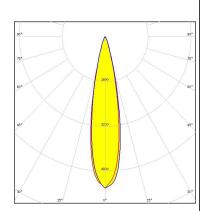


Light distribution files

CREE \$

LED XP-G2
FWHM / FWTM 21.0° / 38.0°
Efficiency 96 %
Peak intensity 5.4 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:

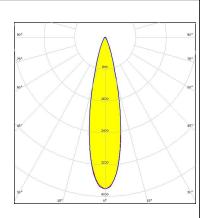


Light distribution files

CREE -

LED XP-G3
FWHM / FWTM 24.0° / 44.0°
Efficiency 89 %
Peak intensity 3.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Protective plate, glass



Light distribution files

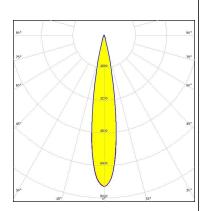


CREE +

LED XP-P
FWHM / FWTM 18.0° / 30.0°
Efficiency 91 %
Peak intensity 7.5 cd/lm
LEDs/each optic 1
Light colour/type White

Protective plate, glass

Required components:

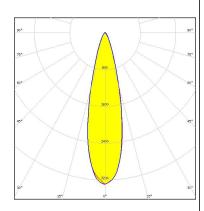


Light distribution files

DESCRIPTION

LED LUXEON 5050 HE
FWHM / FWTM 26.0° / 48.0°
Efficiency 94 %
Peak intensity 3.3 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:

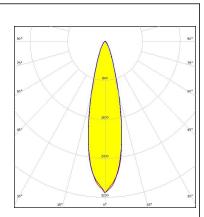


Light distribution files

MILEDS

LED LUXEON 5050 HE
FWHM / FWTM 26.0° / 50.0°
Efficiency 87 %
Peak intensity 3.1 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:



Light distribution files

Protective plate, glass

Last update: 24/07/2025

Subject to change without prior notice

Published: 04/08/2020





LFD LUXEON 5050 Round LES

 $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 28.0° / 52.0° Efficiency 83 % Peak intensity 2.8 cd/lm LEDs/each optic Light colour/type White

Required components:

Light distribution files

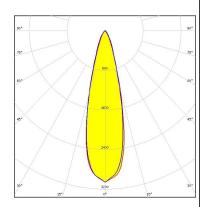
Protective plate, glass

LUMILEDS

LUXEON 5050 Round LES LFD

FWHM / FWTM 27.0° / 51.0° Efficiency 90 % Peak intensity 3.1 cd/lm LEDs/each optic 1 Light colour/type White

Required components:



Light distribution files



LUXEON 5050 Square LES

FWHM / FWTM 28.0° / 57.0° Efficiency 87 % Peak intensity 2.5 cd/lm LEDs/each optic Light colour/type White Required components:

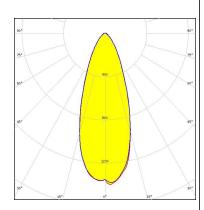
Protective plate, glass





Required components:

LED LUXEON 7070
FWHM / FWTM 38.0° / 79.0°
Efficiency 89 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour/type White

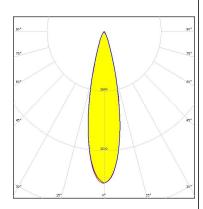


Light distribution files



LED LUXEON HL2X
FWHM / FWTM 24.0° / 44.0°
Efficiency 95 %
Peak intensity 4.1 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:



Light distribution files



Required components:

LED LUXEON HL2X-D
FWHM / FWTM 24.0° / 46.0°
Efficiency 96 %
Peak intensity 4 cd/lm
LEDs/each optic 1
Light colour/type White



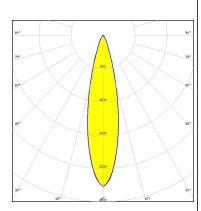


LED LUXEON HL2X-D FWHM / FWTM 24.0° / 46.0°
Efficiency 88 %

Peak intensity 3.6 cd/lm
LEDs/each optic 1
Light colour/type White

Protective plate, glass

Required components:



Light distribution files

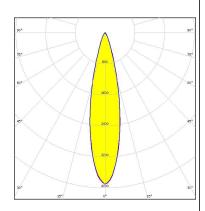


LED LUXEON HL2X-E FWHM / FWTM 24.0° / 44.0°

Efficiency 89 %
Peak intensity 3.9 cd/lm

LEDs/each optic 1
Light colour/type White

Required components:

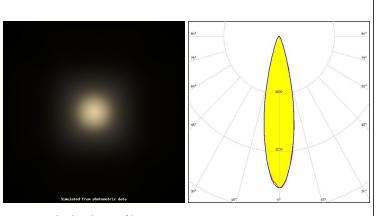


Light distribution files

Protective plate, glass

MUMILEDS

LED LUXEON HL2X-E
FWHM / FWTM 24.0° / 44.0°
Efficiency 96 %
Peak intensity 4.2 cd/lm
LEDs/each optic 1
Light colour/type White



Light distribution files

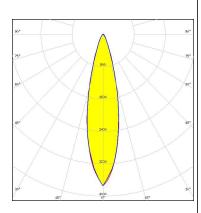




LED LUXEON HL2X-P FWHM / FWTM 24.0° / 47.0° Efficiency 95 % Peak intensity 3.7 cd/lm

LEDs/each optic 1
Light colour/type White

Required components:

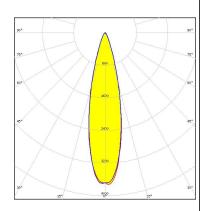


Light distribution files



LED LUXEON HL4X
FWHM / FWTM 24.0° / 46.0°
Efficiency 94 %
Peak intensity 3.8 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:



Light distribution files



LED LUXEON HL4Z
FWHM / FWTM 18.0° / 36.0°
Efficiency 95 %
Peak intensity 6.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files





LED SFT-12R-W-A
FWHM / FWTM 16.0° / 28.0°
Efficiency 91 %
Peak intensity 8.9 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:

Light distribution files

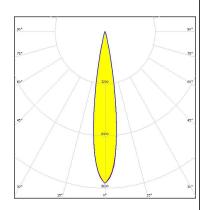
Protective plate, glass

ELUMINUS

LED SFT-12R-W-A
FWHM / FWTM 18.0° / 28.0°
Efficiency 96 %
Peak intensity 9.3 cd/lm
LEDs/each optic 1

Light colour/type White

Required components:

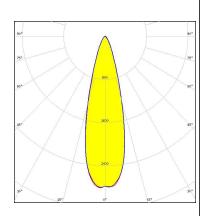


Light distribution files



LED NFMW48xA
FWHM / FWTM 28.0° / 54.0°
Efficiency 93 %
Peak intensity 2.8 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:





WNICHIA

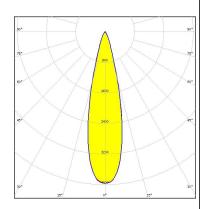
LED NFMW48xA
FWHM / FWTM 29.0° / 55.0°
Efficiency 90 %
Peak intensity 2.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files



LED NVSW219F
FWHM / FWTM 24.0° / 44.0°
Efficiency 95 %
Peak intensity 4 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:

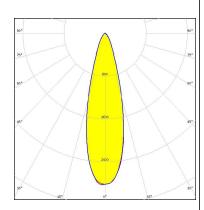


Light distribution files

OSRAMOnto Semiconductors

LED DURIS E 5050 (GW J9LHS1.4M)

FWHM / FWTM 28.0° / 56.0°
Efficiency 93 %
Peak intensity 2.8 cd/lm
LEDs/each optic 1
Light colour/type RGBW
Required components:





OSRAM Opto Semiconductors

LED DURIS E 5050 (GW J9LHS1.4M)

FWHM / FWTM 28.0° / 56.0°
Efficiency 88 %
Peak intensity 2.7 cd/lm
LEDs/each optic 1
Light colour/type RGBW

Required components:

Light distribution files

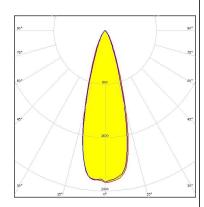
Protective plate, glass

OSRAM Opto Semiconductors

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LED Duris S8
FWHM / FWTM 31.0° / 56.0°
Efficiency 87 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:

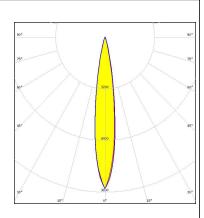


Light distribution files

OSRAM

LED OSCONIQ C 2424 Gen1

FWHM / FWTM 16.0° / 30.0°
Efficiency 96 %
Peak intensity 9.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



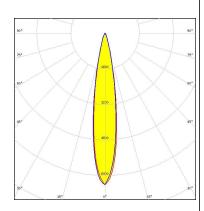


OSRAM Opto Semiconductors

LED OSCONIQ P 3737 Flat

FWHM / FWTM 18.0° / 34.0°
Efficiency 95 %
Peak intensity 6.8 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:



Light distribution files

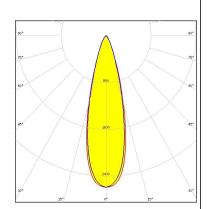
OSRAM Opto Semiconductore

Opto Semiconduct

LED OSCONIQ S 5050 (Q9LR32)

FWHM / FWTM 28.0° / 52.0°
Efficiency 85 %
Peak intensity 2.6 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:



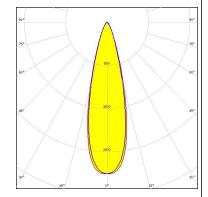
Light distribution files

Protective plate, glass

OSRAMOnto Semiconductors

LED OSCONIQ S 5050 (Q9LR32)

FWHM / FWTM 28.0° / 52.0°
Efficiency 94 %
Peak intensity 2.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



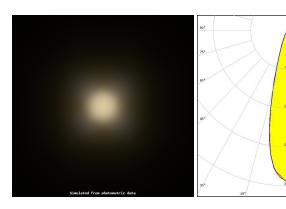


OSRAM Opto Semiconductors

LED OSCONIQ S 5050 SFC FWHM / FWTM 26.0° / 48.0 + 49.0°

Efficiency 94 %
Peak intensity 3.1 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:



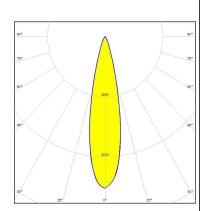
Light distribution files

OSRAM Opto Semiconductore

Opto Semiconduci

LED OSLON Square CSSRM2/CSSRM3

FWHM / FWTM 24.0° / 42.0°
Efficiency 87 %
Peak intensity 4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



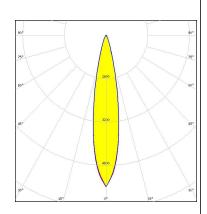
Light distribution files

Protective plate, glass

OSRAM

LED OSLON Square CSSRM2/CSSRM3

FWHM / FWTM 20.0° / 38.0°
Efficiency 95 %
Peak intensity 5.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

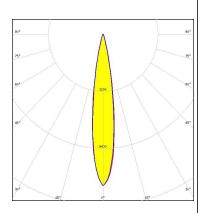


OSRAM Opto Semiconductors

LED OSLON Square Flat FWHM / FWTM 17.0° / 30.0°

Efficiency 96 %
Peak intensity 8.5 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:



Light distribution files

OSRAM Opto Semiconductore

LED OSTAR Projection Compact (KW.CSLNM1.TG)

FWHM / FWTM 19.0° / 32.0°

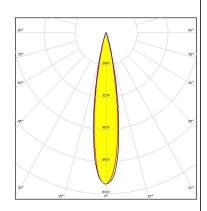
Efficiency 96 %

Peak intensity 7.5 cd/lm

LEDs/each optic 1

Light colour/type White

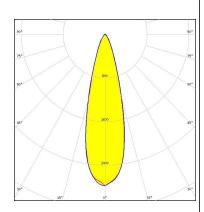
Required components:



Light distribution files

SAMSUNG

LED LH502C
FWHM / FWTM 28.0° / 54.0°
Efficiency 92 %
Peak intensity 2.8 cd/lm
LEDs/each optic 1
Light colour/type White



Light distribution files

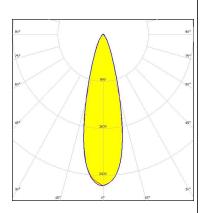


SAMSUNG

LED LH502C
FWHM / FWTM 28.0° / 54.0°
Efficiency 85 %
Peak intensity 2.6 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:

Protective plate, glass

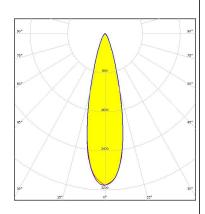


Light distribution files

SAMSUNG

LED LH502D
FWHM / FWTM 26.0° / 50.0°
Efficiency 93 %
Peak intensity 3.1 cd/lm
LEDs/each optic 1
Light colour/type White

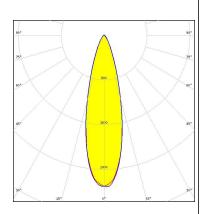
Required components:



Light distribution files

SAMSUNG

LED LH508B
FWHM / FWTM 28.0° / 56.0°
Efficiency 92 %
Peak intensity 2.7 cd/lm
LEDs/each optic 1
Light colour/type White



Light distribution files



SAMSUNG

Required components:

LED LM301B
FWHM / FWTM 16.0° / 32.0°
Efficiency 94 %
Peak intensity 7.7 cd/lm
LEDs/each optic 1
Light colour/type White

Light distribution files



LED MJT 5050

FWHM / FWTM 30.0° / 60.0°

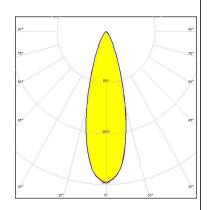
Efficiency 92 %

Peak intensity 2.4 cd/lm

LEDs/each optic 1

Light colour/type White

Required components:

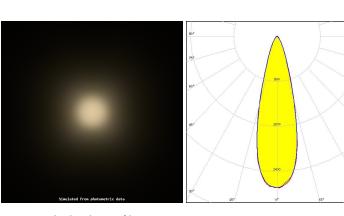


Light distribution files



LED Seoul 5050 G-Series

FWHM / FWTM 28.0° / 54.0°
Efficiency 94 %
Peak intensity 2.7 cd/lm
LEDs/each optic 1
Light colour/type White



Light distribution files







PRODUCT DATASHEET C17303_HB-2X2-5050-S

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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Shenzhen 518057
P.R.CHINA

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