

## HB-2X2-5050-S

~25° spot beam for industrial applications

### TECHNICAL SPECIFICATIONS:

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

### MATERIAL SPECIFICATIONS:

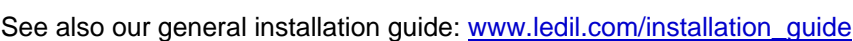
Component	Type
HB-2X2-5050-S	Multi-lens



Material	Colour	Finish
PMMA	clear	

### ORDERING INFORMATION:

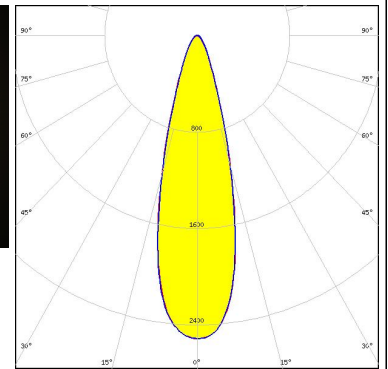
Component	Qty in box	MOQ	MPQ	Box weight (kg)
C17303_HB-2X2-5050-S » Box size: 480 x 280 x 300 mm	800	160	160	10.2



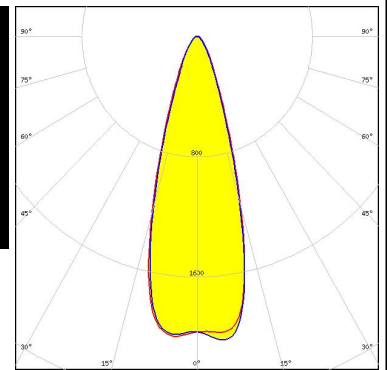
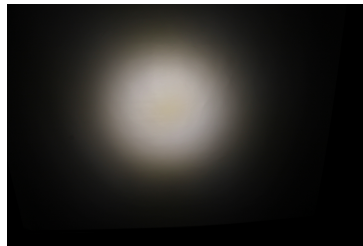
#### PHOTOMETRIC DATA (MEASURED):



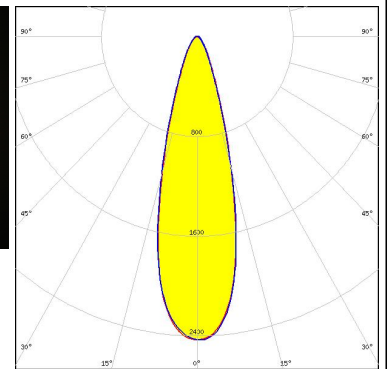
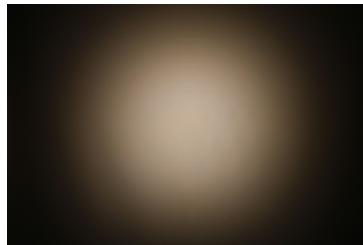
LED LUXEON XR-5050 SQR (L213-xxxx016MRH001)  
 FWHM / FWTM 28.0° / 55.0°  
 Efficiency 94 %  
 Peak intensity 2.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED RecLED 173x50mm 2900lm 740 2x6 5050 Opt G1  
 FWHM / FWTM 33.0° / 6.0 + 60.0°  
 Efficiency 94 %  
 Peak intensity 2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



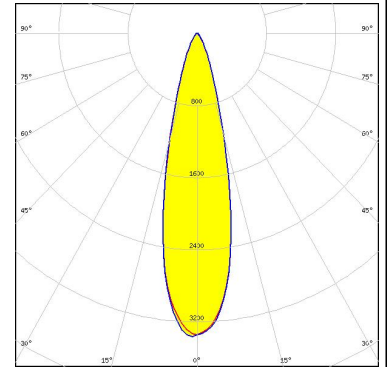
LED Fortimo FastFlex LED 2x8 DA HE  
 FWHM / FWTM 29.0° / 56.0°  
 Efficiency 95 %  
 Peak intensity 2.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



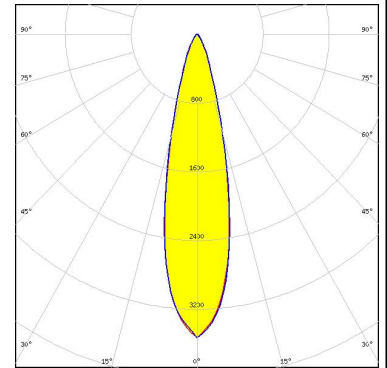
#### PHOTOMETRIC DATA (SIMULATED):



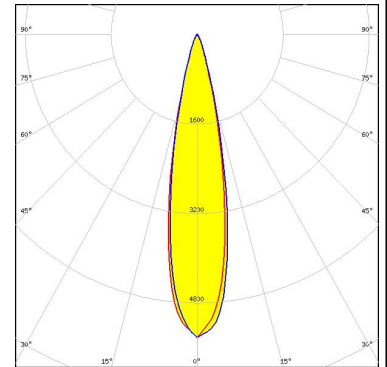
LED J Series 5050 Round LES  
 FWHM / FWTM 26.0° / 50.0°  
 Efficiency 93 %  
 Peak intensity 3.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED J Series 5050 Square LES  
 FWHM / FWTM 24.0° / 48.0°  
 Efficiency 92 %  
 Peak intensity 3.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

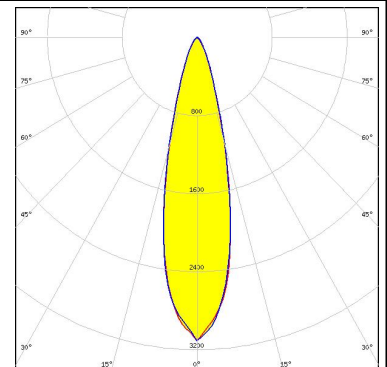


LED XP-G2  
 FWHM / FWTM 21.0° / 38.0°  
 Efficiency 96 %  
 Peak intensity 5.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



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

Protective plate, glass

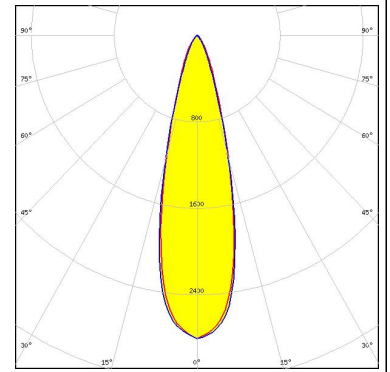


#### PHOTOMETRIC DATA (SIMULATED):

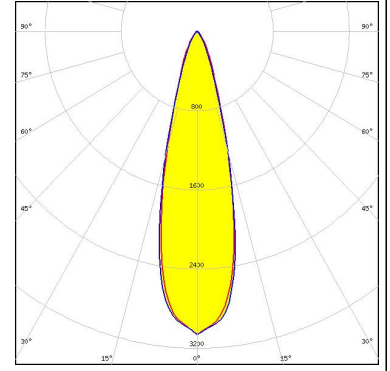


LED LUXEON 5050 Round LES  
 FWHM / FWTM 28.0° / 52.0°  
 Efficiency 83 %  
 Peak intensity 2.8 cd/Im  
 LEDs/each optic 1  
 Light colour White  
 Required components:

Protective plate, glass

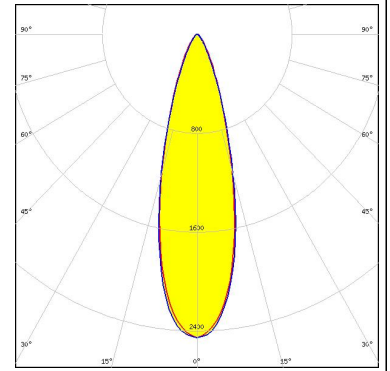


LED LUXEON 5050 Round LES  
 FWHM / FWTM 27.0° / 51.0°  
 Efficiency 90 %  
 Peak intensity 3.1 cd/Im  
 LEDs/each optic 1  
 Light colour White  
 Required components:

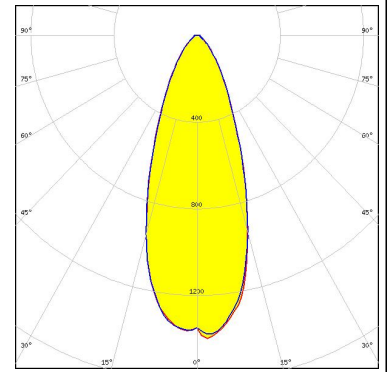


LED LUXEON 5050 Square LES  
 FWHM / FWTM 28.0° / 57.0°  
 Efficiency 87 %  
 Peak intensity 2.5 cd/Im  
 LEDs/each optic 1  
 Light colour White  
 Required components:

Protective plate, glass



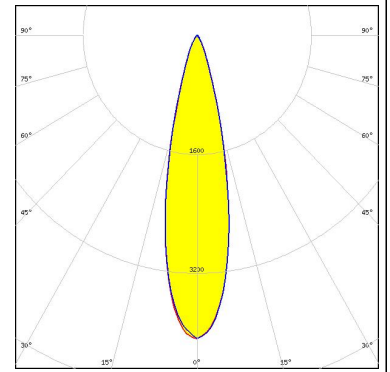
LED LUXEON 7070  
 FWHM / FWTM 38.0° / 79.0°  
 Efficiency 89 %  
 Peak intensity 1.4 cd/Im  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHOTOMETRIC DATA (SIMULATED):

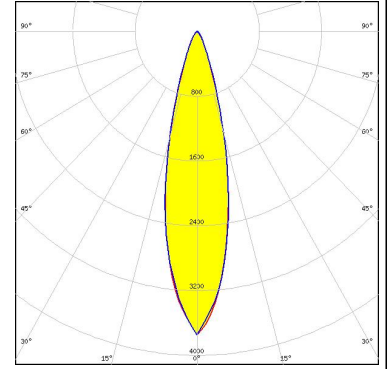
##### LUMILEDS

LED LUXEON HL2X  
FWHM / FWTM 24.0° / 44.0°  
Efficiency 95 %  
Peak intensity 4.1 cd/Im  
LEDs/each optic 1  
Light colour White  
Required components:



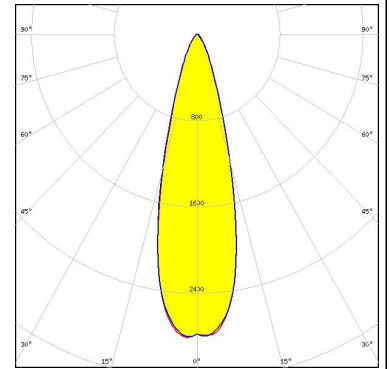
##### LUMILEDS

LED LUXEON HL2X-P  
FWHM / FWTM 24.0° / 47.0°  
Efficiency 95 %  
Peak intensity 3.7 cd/Im  
LEDs/each optic 1  
Light colour White  
Required components:



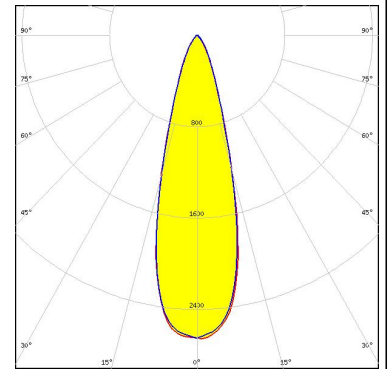
##### NICHIA

LED NFMW48xA  
FWHM / FWTM 28.0° / 54.0°  
Efficiency 93 %  
Peak intensity 2.8 cd/Im  
LEDs/each optic 1  
Light colour White  
Required components:



##### NICHIA

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

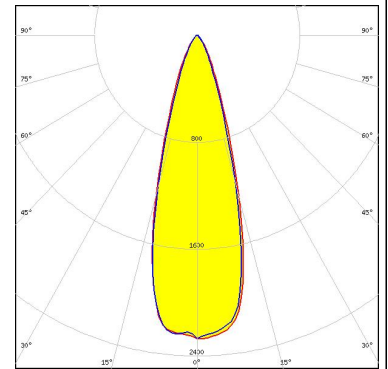


#### PHOTOMETRIC DATA (SIMULATED):

##### OSRAM

Opto Semiconductors

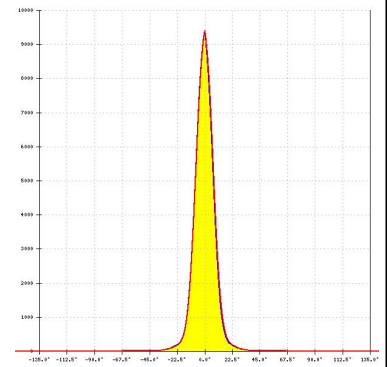
LED Duris S8  
FWHM / FWTM 31.0° / 56.0°  
Efficiency 87 %  
Peak intensity 2.3 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



##### OSRAM

Opto Semiconductors

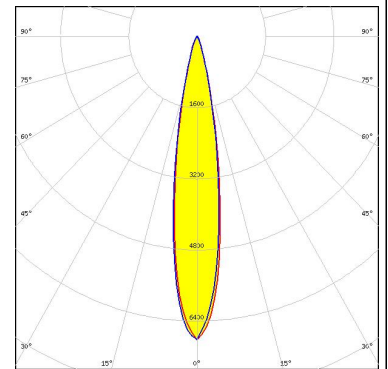
LED OSCONIQ C 2424  
FWHM / FWTM 16.0° / 30.0°  
Efficiency 96 %  
Peak intensity 9.4 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



##### 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 White  
Required components:

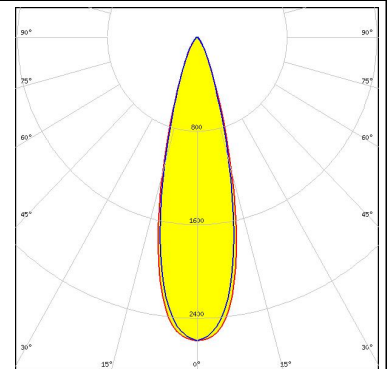


##### OSRAM

Opto Semiconductors

LED OSCONIQ S 5050  
FWHM / FWTM 28.0° / 52.0°  
Efficiency 85 %  
Peak intensity 2.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

Protective plate, glass



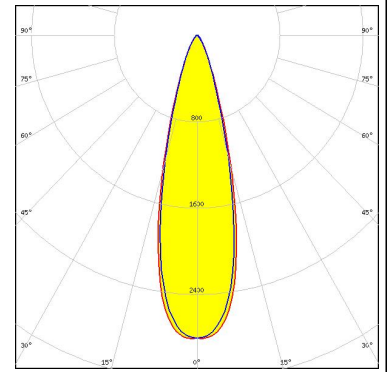


#### PHOTOMETRIC DATA (SIMULATED):

##### OSRAM

Opto Semiconductors

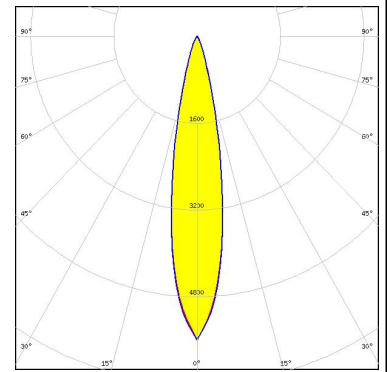
LED OSCONIQ S 5050  
FWHM / FWTM 28.0° / 52.0 + 51.0°  
Efficiency 94 %  
Peak intensity 2.8 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



##### OSRAM

Opto Semiconductors

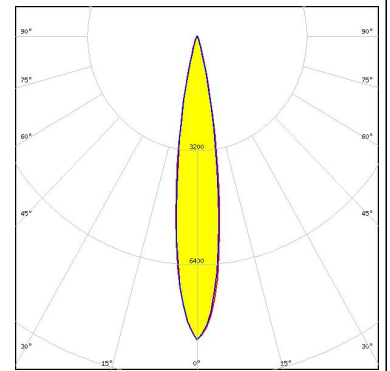
LED OSLON Square CSSRM2/CSSRM3  
FWHM / FWTM 20.0° / 38.0°  
Efficiency 95 %  
Peak intensity 5.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



##### OSRAM

Opto Semiconductors

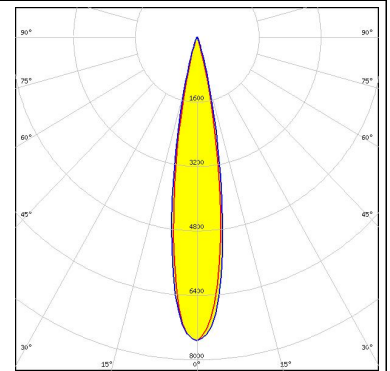
LED OSLON Square Flat  
FWHM / FWTM 17.0° / 30.0°  
Efficiency 96 %  
Peak intensity 8.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



##### OSRAM

Opto Semiconductors

LED OSTAR Projection Compact (Kx.CSLNM1.xx)  
FWHM / FWTM 19.0° / 32.0°  
Efficiency 96 %  
Peak intensity 7.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



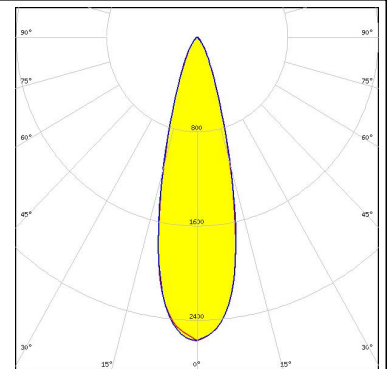


#### PHOTOMETRIC DATA (SIMULATED):

#### SAMSUNG

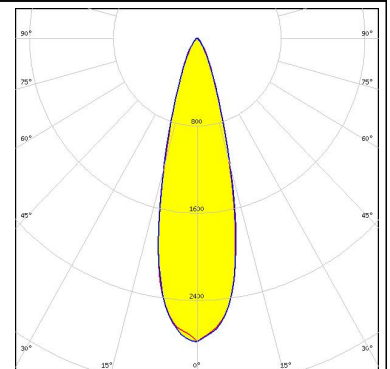
LED LH502C  
FWHM / FWTM 28.0° / 54.0°  
Efficiency 85 %  
Peak intensity 2.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

Protective plate, glass



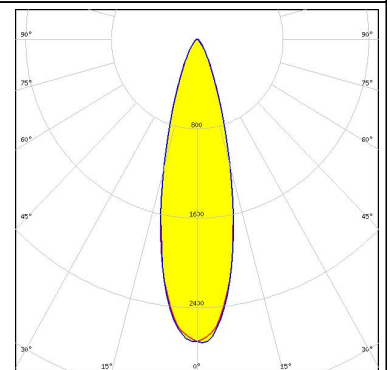
#### SAMSUNG

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



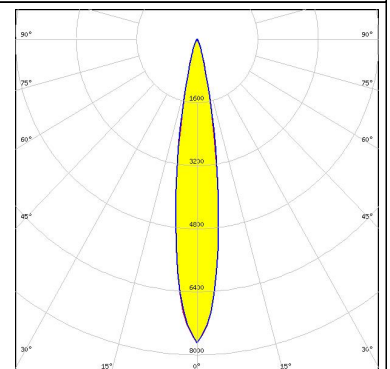
#### SAMSUNG

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



#### SAMSUNG

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



### PHOTOMETRIC DATA (SIMULATED):



### 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.

LEDiL Oy assumes neither warranty, nor guarantee nor any other liability of any kind for the contents and correctness of the provided data. The provided data has been generated with highest diligence but the provided data may in reality not represent the complete possible variation range of all intrinsic parameters. Therefore, in certain cases a deviation from the provided data could occur.

LEDiL Oy reserves the right to undertake technical changes of its products without further notification which could lead to changes in the provided data. LEDiL Oy assumes no liability of any kind for the possible deviation from any provided data or any other damage resulting from the usage of the provided data.

The user agrees to this disclaimer and user agreement with the download or usage of the provided files.

#### 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

#### Local sales and technical support

[www.ledil.com/  
where\\_to\\_buy](http://www.ledil.com/where_to_buy)

#### Shipping locations

Salo, Finland  
Hong Kong, China

#### Distribution Partners

[www.ledil.com/  
where\\_to\\_buy](http://www.ledil.com/where_to_buy)