

## 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 ⓘ          |

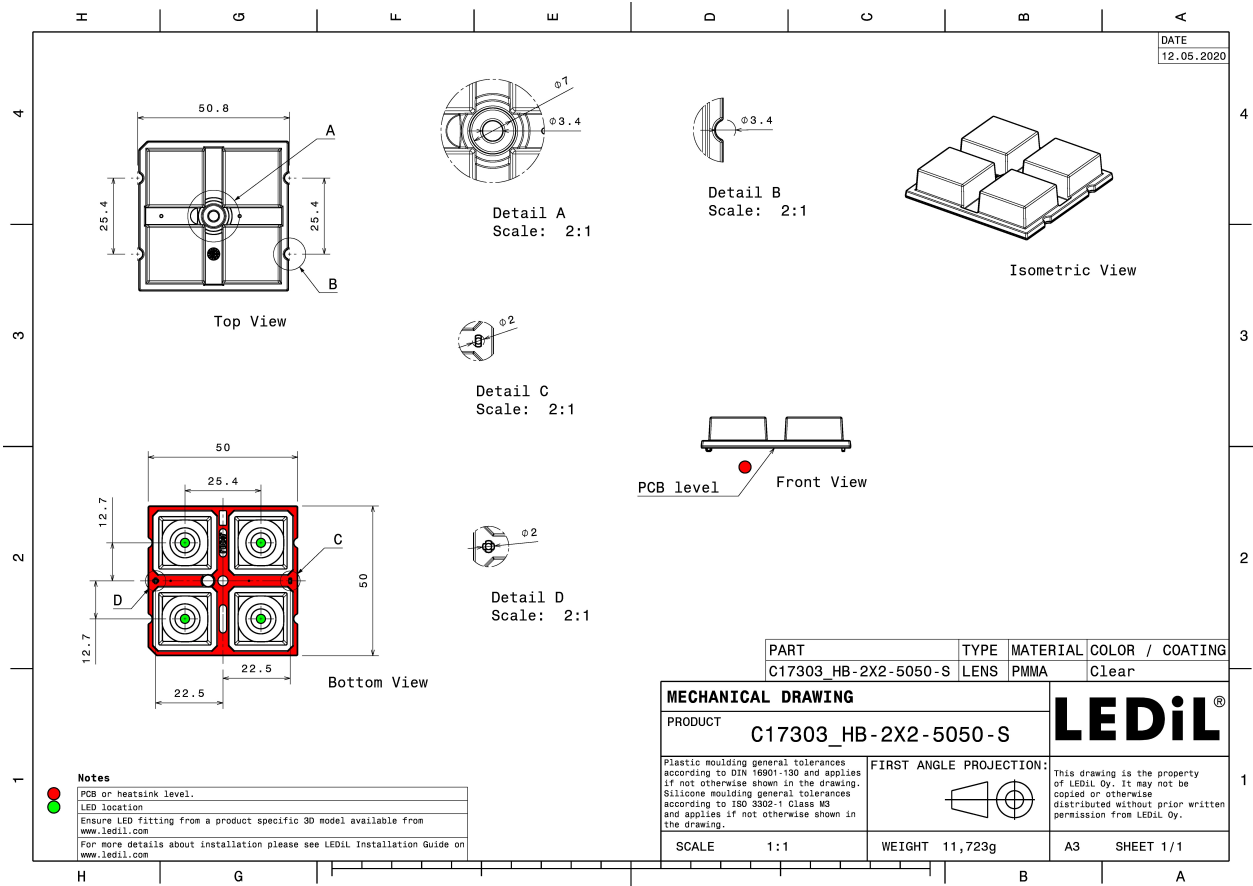
### MATERIAL SPECIFICATIONS:

| Component     | Type       | Material | Colour | Finish |
|---------------|------------|----------|--------|--------|
| HB-2X2-5050-S | Multi-lens | PMMA     | clear  |        |



### ORDERING INFORMATION:

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

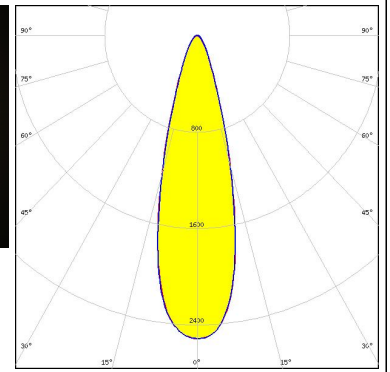


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

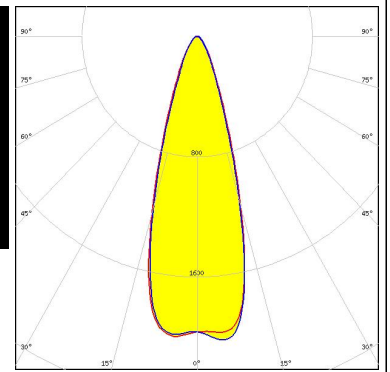
#### PHOTOMETRIC DATA (MEASURED):



**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:**



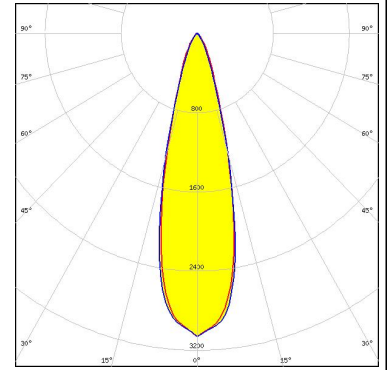
#### PHOTOMETRIC DATA (SIMULATED):

|   |  |
|---|--|
| <p><b>CREE LED</b></p> <p>LED J Series 5050 Round LES</p> <p>FWHM / FWTM 26.0° / 50.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 3.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>                              |  |
| <p><b>CREE LED</b></p> <p>LED J Series 5050 Square LES</p> <p>FWHM / FWTM 24.0° / 48.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 3.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>                             |  |
| <p><b>CREE LED</b></p> <p>LED XP-G2</p> <p>FWHM / FWTM 21.0° / 38.0°</p> <p>Efficiency 96 %</p> <p>Peak intensity 5.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>  |  |
| <p><b>LUMILEDS</b></p> <p>LED LUXEON 5050 Round LES</p> <p>FWHM / FWTM 28.0° / 52.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 2.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> <p>Protective plate, glass</p> |  |

#### PHOTOMETRIC DATA (SIMULATED):

#### LUMILEDS

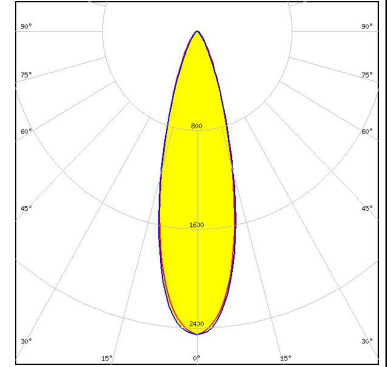
LED LUXEON 5050 Round LES  
 FWHM / FWTM 27.0° / 51.0°  
 Efficiency 90 %  
 Peak intensity 3.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### LUMILEDS

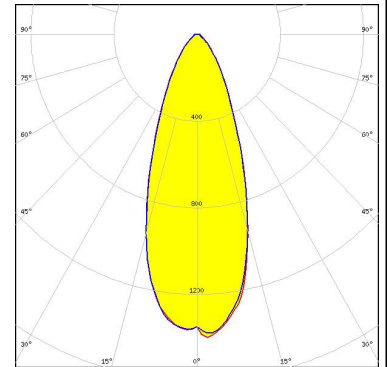
LED LUXEON 5050 Square LES  
 FWHM / FWTM 28.0° / 57.0°  
 Efficiency 87 %  
 Peak intensity 2.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

Protective plate, glass



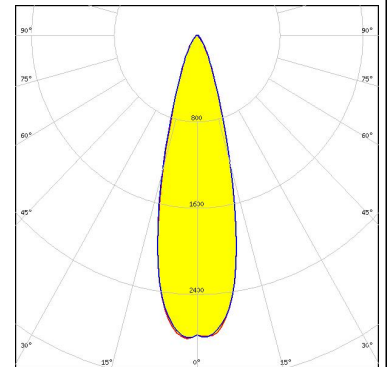
#### LUMILEDS

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



#### PHOTOMETRIC DATA (SIMULATED):

|   |  |
|---|--|
| <p><b>NICHIA</b></p> <p>LED: NFMW48xA<br/>           FWHM / FWTM: 29.0° / 55.0°<br/>           Efficiency: 90 %<br/>           Peak intensity: 2.7 cd/lm<br/>           LEDs/each optic: 1<br/>           Light colour: White<br/>           Required components:</p>                                   |  |
| <p><b>OSRAM</b><br/>Opto Semiconductors</p> <p>LED: Duris S8<br/>           FWHM / FWTM: 31.0° / 56.0°<br/>           Efficiency: 87 %<br/>           Peak intensity: 2.3 cd/lm<br/>           LEDs/each optic: 1<br/>           Light colour: White<br/>           Required components:</p>            |  |
| <p><b>OSRAM</b><br/>Opto Semiconductors</p> <p>LED: OSCONIQ C 2424<br/>           FWHM / FWTM: 16.0° / 30.0°<br/>           Efficiency: 96 %<br/>           Peak intensity: 9.4 cd/lm<br/>           LEDs/each optic: 1<br/>           Light colour: White<br/>           Required components:</p>      |  |
| <p><b>OSRAM</b><br/>Opto Semiconductors</p> <p>LED: OSCONIQ P 3737 Flat<br/>           FWHM / FWTM: 18.0° / 34.0°<br/>           Efficiency: 95 %<br/>           Peak intensity: 6.8 cd/lm<br/>           LEDs/each optic: 1<br/>           Light colour: White<br/>           Required components:</p> |  |

#### PHOTOMETRIC DATA (SIMULATED):

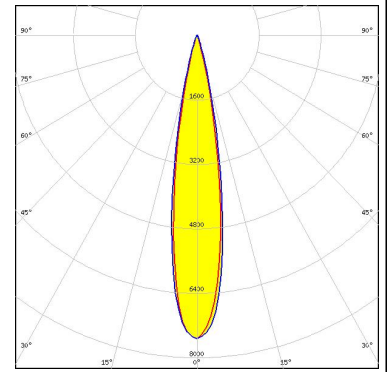
|  |  |
|--|--|
| <p><b>OSRAM</b><br/>Opto Semiconductors</p> <p>LED: OSCONIQ S 5050</p> <p>FWHM / FWTM: 28.0° / 52.0°</p> <p>Efficiency: 85 %</p> <p>Peak intensity: 2.6 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p> <p style="background-color: #ADD8E6; padding: 2px;">Protective plate, glass</p> |  |
| <p><b>OSRAM</b><br/>Opto Semiconductors</p> <p>LED: OSCONIQ S 5050</p> <p>FWHM / FWTM: 28.0° / 52.0 + 51.0°</p> <p>Efficiency: 94 %</p> <p>Peak intensity: 2.8 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>  |  |
| <p><b>OSRAM</b><br/>Opto Semiconductors</p> <p>LED: OSLOM Square CSSRM2/CSSRM3</p> <p>FWHM / FWTM: 20.0° / 38.0°</p> <p>Efficiency: 95 %</p> <p>Peak intensity: 5.6 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>   |  |
| <p><b>OSRAM</b><br/>Opto Semiconductors</p> <p>LED: OSLOM Square Flat</p> <p>FWHM / FWTM: 17.0° / 30.0°</p> <p>Efficiency: 96 %</p> <p>Peak intensity: 8.5 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>  |  |

#### PHOTOMETRIC DATA (SIMULATED):

#### OSRAM

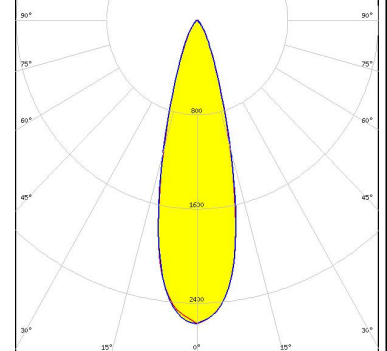
Opto Semiconductors

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:



#### SAMSUNG

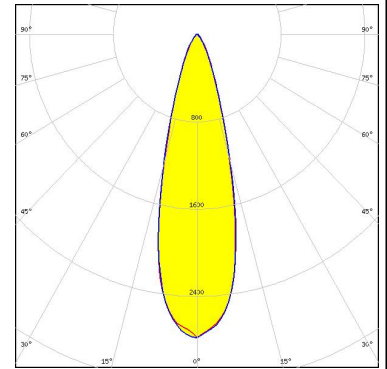
LED LH502C  
 FWHM / FWTM 28.0° / 54.0°  
 Efficiency 85 %  
 Peak intensity 2.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



Protective plate, glass

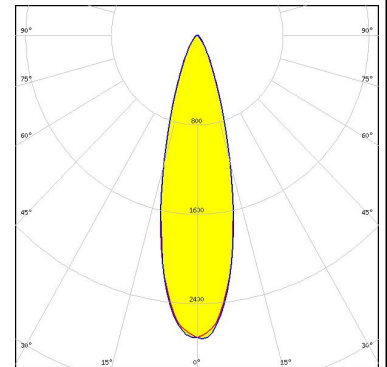
#### SAMSUNG

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

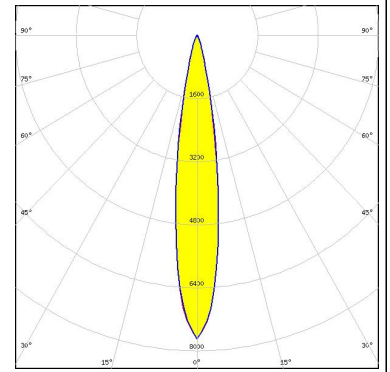
LED LH508B  
 FWHM / FWTM 28.0° / 56.0°  
 Efficiency 92 %  
 Peak intensity 2.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHOTOMETRIC DATA (SIMULATED):

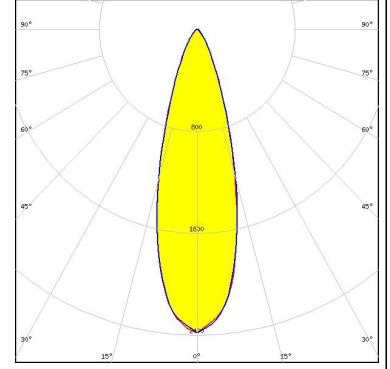
### SAMSUNG

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:



SEOUL SEMICONDUCTOR

LED MJT 5050  
FWHM / FWTM 30.0° / 60.0°  
Efficiency 92 %  
Peak intensity 2.4 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### 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:

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