

## STRADELLA-8-HV-HB-M

~65° medium beam for industrial applications. Variant with improved creepage distance for high voltage circuit designs.

### **TECHNICAL SPECIFICATIONS:**

Dimensions Height Fastening ROHS compliant 49.5 x 49.5 mm 5.7 mm pin, screw yes 1



#### **MATERIAL SPECIFICATIONS:**

Component STRADELLA-8-HV-HB-M

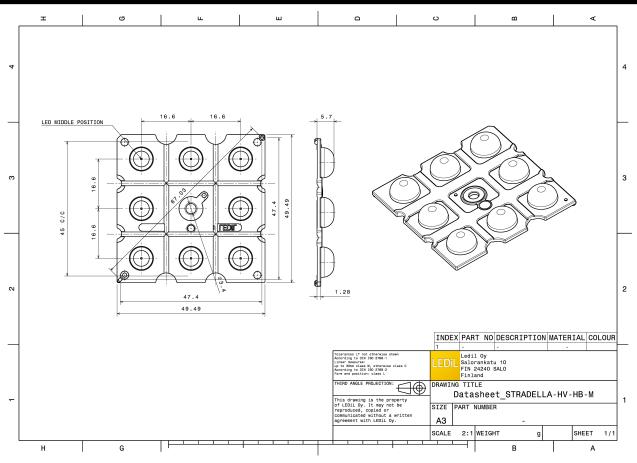
| Туре       |  |
|------------|--|
| Multi-lens |  |

| Material | Colour | Finish |
|----------|--------|--------|
| PMMA     | clear  |        |

#### **ORDERING INFORMATION:**

| Component                      | Qty in box | MOQ | MPQ | Box weight (kg) |
|--------------------------------|------------|-----|-----|-----------------|
| C15984_STRADELLA-8-HV-HB-M     | 800        | 160 | 160 | 4.4             |
| » Box size: 480 x 280 x 300 mm |            |     |     |                 |





See also our general installation guide: <u>www.ledil.com/installation\_guide</u>



| CREE CLE  | J Series 3030<br>62.0° / 123.0°<br>97 %<br>0.7 cd/lm<br>1<br>White  |  |
|---|---|--|
| CREE (LEC)<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone | XD16<br>64.0° / 132.0°<br>92 %<br>0.6 cd/lm<br>1<br>White           |  |
| CREE CLE  | XT-E<br>62.0° / 137.0°<br>94 %<br>0.6 cd/lm<br>1<br>White           |  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone               | SST-10-B130<br>59.0° / 126.0°<br>94 %<br>0.7 cd/lm<br>1<br>Deep Red |  |



| $\sim$                    |                                  |   |
|---------------------------|----------------------------------|---|
| ØNICHI/                   |                                  | 90* 90*   |
| LED                       | NF2W585AR                        |   |
| FWHM / FWTM               | 73.0° / 132.0°                   |   |
| Efficiency                | 94 %                             |   |
| Peak intensity            | 0.6 cd/lm                        |   |
| LEDs/each optic           | 1                                |   |
| Light colour              | White                            | gr at   |
| Required compone          | ents:                            |   |
|                           |                                  |   |
|                           |                                  |   |
|                           |                                  | 34* 600 34*                                     |
| OSRAM                     |                                  | 20 <sup>4</sup> 20 <sup>4</sup> 20 <sup>4</sup> |
| Opto Semiconductors       |                                  |   |
|                           | OSCONIQ S 3030                   | B. B.   |
| FWHM / FWTM<br>Efficiency | 63.0° / 121.0°<br>94 %           |   |
| Peak intensity            | 94 %<br>0.7 cd/lm                |   |
| LEDs/each optic           | 1                                |   |
| Light colour              | '<br>White                       | a   |
| Required compone          |                                  |   |
|                           |                                  |   |
|                           |                                  |   |
|                           |                                  |   |
|                           |                                  | 222 90 222                                      |
| PHILI                     | 25                               | 50 <sup>4</sup>                                 |
| LED                       | Fortimo FastFlex LED 4x8up PR G5 |   |
| FWHM / FWTM               | 60.0° / 122.0°                   |   |
| Efficiency                | 94 %                             | μ <sup>2</sup> μ <sup>2</sup>                   |
| Peak intensity            | 0.7 cd/lm                        |   |
| LEDs/each optic           | 1                                |   |
| Light colour              | White                            | <u>×</u>  |
| Required compone          | ents:                            |   |
|                           |                                  |   |
|                           |                                  |   |
|                           |                                  | 30° 30° 30°                                     |
| SAMSI                     | ING                              | 50 <sup>4</sup>                                 |
| LED                       | LH151B                           |   |
| FWHM / FWTM               | 49.0° / 118.0°                   | 75 75   |
| Efficiency                | 93 %                             |   |
| Peak intensity            | 0.8 cd/lm                        |   |
| LEDs/each optic           | 1                                |   |
| Light colour              | White                            | g' at   |
| Required compone          |                                  |   |
|                           |                                  |   |
|                           |                                  |   |
|                           |                                  | 204 00 24.                                      |
| 1                         |                                  | eer eer   |



| SEOUL                        |                   |  |  |   |
|------------------------------|-------------------|--|--|---|
| SEOUL SEMICONDUCTOR          |                   |  |  |   |
| LED                          | SEOUL DC 3030C    |  |  |   |
| FWHM / FWTM                  | 60.0° / 121.0°    |  |  |   |
| Efficiency                   | 94 %              |  |  |   |
| Peak intensity               | 0.7 cd/lm         |  |  |   |
| LEDs/each optic              | 1                 |  |  |   |
| Light colour                 | White             |  |  |   |
| Required compone             |                   |  |  |   |
|                              |                   |  |  |   |
|                              |                   |  |  |   |
| SEOUL                        |                   |  |  | F   |
| SEOUL SEMICONDUCTOR          |                   |  | 90*                                    | 90*   |
| LED                          | Z5M3              |  |  |   |
| FWHM / FWTM                  | 71.0° / 132.0°    |  | 75                                     |   |
| Efficiency                   | 94 %              |  |  |   |
| Peak intensity               | 0.6 cd/lm         |  |  |   |
| LEDs/each optic              | 1                 |  |  | $\times$  |
| Light colour                 | White             |  | 934                                    |   |
| Required compone             |                   |  | 400                                    |   |
| Required compone             | 5110.             |  |  |   |
|                              |                   |  |  |   |
|                              |                   |  |  |   |
|                              |                   |  | 36* 800<br>15° 0°                      | 15° 30°   |
| SEOUL<br>SEOUL SEMICONDUCTOR |                   |  | 90*                                    | 90°   |
| LED                          | Z5M4              |  |  |   |
| FWHM / FWTM                  | 71.0° / 118.0°    |  | 70                                     | 7   |
| Efficiency                   | 98 %              |  | 200                                    | $\langle \mathcal{N} \rangle \langle \mathcal{N} \rangle$ |
| Peak intensity               | 0.7 cd/lm         |  | 69°                                    | 60°   |
| LEDs/each optic              | 1                 |  |  |   |
| Light colour                 | ı<br>White        |  | 45*                                    | K   |
|                              |                   |  |  |   |
| Required compone             | enis:             |  |  |   |
|                              |                   |  |  |   |
|                              |                   |  | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |   |
|                              |                   |  | 30° 15° 0°                             | 32°<br>30°  |
|                              |                   |  |  |   |
| SEOUL SEMICONDUCTOR          | Z8Y19             |  |  |   |
| EED<br>FWHM / FWTM           | 80.0° / 130.0°    |  |  |   |
| Efficiency                   | 91 %              |  |  |   |
|                              | 91 %<br>0.5 cd/lm |  |  |   |
| Peak intensity               |                   |  |  |   |
| LEDs/each optic              | 1                 |  |  |   |
| Light colour                 | White             |  |  |   |
| Required compone             | ents:             |  |  |   |
|                              |                   |  |  |   |
|                              |                   |  |  |   |
|                              |                   |  |  |   |
|                              |                   |  |  |   |



| SEOUL               |                |
|---------------------|----------------|
| SEOUL SEMICONDUCTOR |                |
| LED                 | Z8Y22          |
| FWHM / FWTM         | 81.0° / 131.0° |
| Efficiency          | 91 %           |
| Peak intensity      | 0.5 cd/lm      |
| LEDs/each optic     | 1              |
| Light colour        | White          |
| Required compone    | ents:          |
|                     |                |
|                     |                |



| CREE LED<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:   | XP-G2 HE<br>70.0° / 128.0°<br>95 %<br>0.6 cd/lm<br>1<br>White        | 50° (0° 10° 10° 10° 10° 10° 10° 10° 10° 10° 1 |
|---|--|---|
| CREE LED<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:   | XP-G3<br>72.0° / 132.0°<br>91 %<br>0.5 cd/lm<br>1<br>White           |   |
| CREE LED<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:   | XP-G3<br>74.0° / 132.0°<br>95 %<br>0.5 cd/m<br>1<br>White            | 51 50 50 50 50 50 50 50 50 50 50 50 50 50     |
| When the second | LUXEON 3535L HE<br>52.0° / 122.0°<br>93 %<br>0.7 cd/lm<br>1<br>White |   |



|   | S  |                     |
|---|--|---------------------|
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components: | LUXEON HR30<br>54.0° / 121.0°<br>93 %<br>0.8 cd/lm<br>1<br>White       |                     |
|   | S  | 50° 30 <sup>5</sup> |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components: | LUXEON TX<br>61.0° / 128.0°<br>94 %<br>0.6 cd/lm<br>1<br>White         | 24° 200 0° 13° 2°   |
| ED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:  | NVSW519A<br>78.0° / 124.0°<br>92 %<br>0.5 cd/lm<br>1<br>White          |                     |
| ED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:  | NVSxx19B/NVSxx19C<br>65.0° / 124.0°<br>91 %<br>0.6 cd/lm<br>1<br>White |                     |



| OSRAM   |  | 90° 90°   |
|---|--|---|
| Opto Semiconductors   | OSCONIQ C 2424   |   |
| FWHM / FWTM   | 57.0° / 119.0°   | 75. 75.   |
| Efficiency  | 96 %   |   |
| Peak intensity  | 90 /s<br>0.7 cd/lm   | 60 <sup>1</sup> 60 <sup>1</sup>   |
| LEDs/each optic   | 1  |   |
| Light colour  | u<br>White   | 400 631   |
| Required components:  | White  |   |
| Required components.  |  |   |
|   |  |   |
|   |  |   |
|   |  | 36° 35° 36°   |
| OSRAM<br>Opto Semiconductors  |  | 90° 90°   |
| LED   | OSCONIQ P 3030   |   |
| FWHM / FWTM   | 49.0° / 119.0°   | 75* 75*   |
| Efficiency  | 97 %   |   |
| Peak intensity  | 0.9 cd/lm  | 80°   |
| LEDs/each optic   | 1  |   |
| Light colour  | White  | 97  |
| Required components:  |  | 800   |
|   |  |   |
|   |  | 200   |
|   |  |   |
|   |  | 30"   |
|   |  |   |
| SAMSUN  | IG   | 90 <sup>4</sup> 90 <sup>4</sup>   |
| SAMSUN  |  | <u>89</u> * <u>89</u> *   |
| LED   | LH181A   | 35<br>99°   |
| LED<br>FWHM / FWTM  | LH181A<br>67.0° / 135.0°   | 32.<br>34.<br>36.<br>36.<br>36.<br>37.<br>36.<br>36.<br>36.   |
| LED<br>FWHM / FWTM<br>Efficiency  | LH181A<br>67.0° / 135.0°<br>94 %   | 50° 0° 15<br>50° 5°<br>73° 5°<br>90° 500 6°   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity  | LH181A<br>67.0° / 135.0°<br>94 %<br>0.6 cd/lm  |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic   | LH181A<br>67.0° / 135.0°<br>94 %<br>0.6 cd/lm<br>1   |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour   | LH181A<br>67.0° / 135.0°<br>94 %<br>0.6 cd/lm  |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic   | LH181A<br>67.0° / 135.0°<br>94 %<br>0.6 cd/lm<br>1   | 57<br>60<br>50<br>60<br>50<br>60<br>50<br>60<br>50<br>60<br>50<br>60<br>50<br>60<br>50<br>60<br>50<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>6 |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour   | LH181A<br>67.0° / 135.0°<br>94 %<br>0.6 cd/lm<br>1   |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour   | LH181A<br>67.0° / 135.0°<br>94 %<br>0.6 cd/lm<br>1   |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:   | LH181A<br>67.0° / 135.0°<br>94 %<br>0.6 cd/lm<br>1<br>White  |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:   | LH181A<br>67.0° / 135.0°<br>94 %<br>0.6 cd/lm<br>1<br>White  |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:   | LH181A<br>67.0° / 135.0°<br>94 %<br>0.6 cd/lm<br>1<br>White  | 40<br>30 <sup>-</sup> 30 <sup>-</sup>   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:   | LH181A<br>67.0° / 135.0°<br>94 %<br>0.6 cd/lm<br>1<br>White  | 40<br>30 <sup>-</sup> 30 <sup>-</sup>   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br><b>SAMSUN</b><br>LED<br>FWHM / FWTM  | LH181A<br>67.0° / 135.0°<br>94 %<br>0.6 cd/lm<br>1<br>White  | 400<br>100<br>100<br>100<br>100<br>100<br>100<br>100  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br><b>SAMSUN</b><br>LED<br>FWHM / FWTM<br>Efficiency  | LH181A<br>67.0° / 135.0°<br>94 %<br>0.6 cd/lm<br>1<br>White<br>Vhite   | 40<br>30 <sup>4</sup> 35 <sup>3</sup> 00 <sup>4</sup> 15 <sup>3</sup> 30 <sup>4</sup>   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br><b>SAMSUN</b><br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity                                    | LH181A<br>67.0° / 135.0°<br>94 %<br>0.6 cd/lm<br>1<br>White<br>Vhite<br>LH181B<br>59.0° / 122.0°<br>94 %<br>0.7 cd/lm      | 400<br>100<br>100<br>100<br>100<br>100<br>100<br>100  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br><b>SAMSUN</b><br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic                 | LH181A<br>67.0° / 135.0°<br>94 %<br>0.6 cd/lm<br>1<br>White<br>Vhite<br>LH181B<br>59.0° / 122.0°<br>94 %<br>0.7 cd/lm<br>1 | 400<br>100<br>100<br>100<br>100<br>100<br>100<br>100  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br><b>SAMSUN</b><br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour | LH181A<br>67.0° / 135.0°<br>94 %<br>0.6 cd/lm<br>1<br>White<br>Vhite<br>LH181B<br>59.0° / 122.0°<br>94 %<br>0.7 cd/lm      | 40<br>40<br>30<br>40<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>1   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br><b>SAMSUN</b><br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic                 | LH181A<br>67.0° / 135.0°<br>94 %<br>0.6 cd/lm<br>1<br>White<br>Vhite<br>LH181B<br>59.0° / 122.0°<br>94 %<br>0.7 cd/lm<br>1 |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br><b>SAMSUN</b><br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour | LH181A<br>67.0° / 135.0°<br>94 %<br>0.6 cd/lm<br>1<br>White<br>Vhite<br>LH181B<br>59.0° / 122.0°<br>94 %<br>0.7 cd/lm<br>1 |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br><b>SAMSUN</b><br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour | LH181A<br>67.0° / 135.0°<br>94 %<br>0.6 cd/lm<br>1<br>White<br>Vhite<br>LH181B<br>59.0° / 122.0°<br>94 %<br>0.7 cd/lm<br>1 |   |



| SAMSUN                       | IG                     | 90* 90*   |
|------------------------------|------------------------|---|
| LED                          | LH351D                 |   |
| FWHM / FWTM                  | 79.0° / 124.0°         | 73*   |
| Efficiency                   | 94 %                   |   |
| Peak intensity               | 0.6 cd/lm              | $\tilde{\mathbf{X}}$  |
| LEDs/each optic              | 1                      |   |
| Light colour                 | White                  | a. a.   |
| Required components:         |                        | - 40  |
| SEOU                         |                        | 20 <sup>4</sup> 20 <sup>4</sup> 20 <sup>4</sup> 20 <sup>4</sup> 20 <sup>4</sup> |
|                              | 70/007                 |   |
|                              | Z8Y22T                 | 75'   |
| FWHM / FWTM                  | 64.0° / 125.0°<br>94 % |   |
| Efficiency<br>Peak intensity | 94 %<br>0.7 cd/lm      | 60°   |
| LEDs/each optic              | 1                      |   |
| Light colour                 | White                  | 97 <sup>4</sup> 460 63°   |
| Required components:         |                        |   |
|                              |                        | 34° 25° 0° 15° 3°   |



#### **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

Shipping locations Salo, Finland Hong Kong, China

#### Distribution Partners www.ledil.com/ where\_to\_buy