

PRODUCT DATASHEET F16860_LINDA-UP

LINDA-UP

~145° + 100° extra wide beam for uplighting

TECHNICAL SPECIFICATIONS:

Dimensions

25.7 x 1140.0 mm 7.8 mm

Height

Fastening

ROHS compliant

ves 🛈

MATERIAL SPECIFICATIONS:

Component LINDA-UP **Type** Linear lens



Material PMMA Colour

Finish

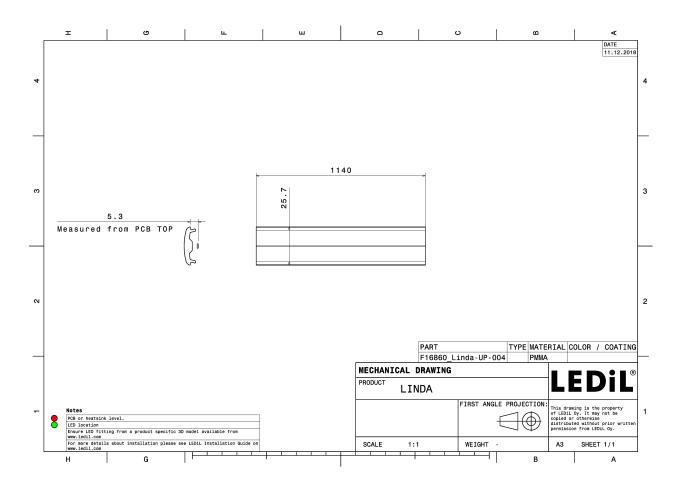
ORDERING INFORMATION:

Component F16860_LINDA-UP » Box size: 1180 x 145 x 125 mm

| Qty in box | MOQ | MPQ | Box weight (kg) |
|------------|-----|-----|-----------------|
| 100 | 100 | 100 | 12.1 |









| CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon | XP-G3Asymmetric84 %0.2 cd/lm1White | 50° 75° 60° 60° 60° 60° 60° 60° 60° 60° 60° 60 |
|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NICHIA LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon | NF2W757G-MT (Tunable White) Asymmetric 87 % 0.3 cd/lm 1 Tunable White | 5° 30 6° |
| | NFSW757H | 400 50° 55° 0° 55° 30° |
| FWHM Efficiency Peak intensity LEDs/each optic | Asymmetric 88 % 0.3 cd/lm | 73° 500 60 |
| Required compon | | 300 100 100 100 100 100 100 100 |
| OSRAM LED FWHM Efficiency Peak intensity LEDs/each optic Light colour | PL-LIN-Z5 1100 280x20 Asymmetric 82 % 0.3 cd/lm 1 White | 5° 50 50 |
| Required compon | ents: | 30 ¹ , 12 ¹ , 5 ¹ , 20 |



| | | | r |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| OSRAM | | 90° | 90* |
| LED | PL-LIN-Z5 2000 280x20 | | |
| FWHM | Asymmetric | 75* | 75* |
| Efficiency | 80 % | | |
| Peak intensity | 0.3 cd/lm | 606 | 604 |
| LEDs/each optic | | 200 | |
| Light colour | White | 43° | |
| Required compon | ents: | 300 | |
| | | | |
| | | 400 | |
| | | | |
| | | 50 15 ⁶ 00 ⁶ | 15* 30 |
| OSRAM Opto Semiconductors | | 90* | 90* |
| LED | Duris E 2835 | | |
| FWHM | Asymmetric | 250 | 75: |
| Efficiency | 88 % | | |
| Peak intensity | 0.3 cd/lm | ápr 🤇 | 504 |
| LEDs/each optic | 1 | | \mathbf{x} |
| Light colour | White | 45* | 454 |
| Required compon | ents: | | |
| | | \times | |
| | | 400 | |
| | | | |
| | | 15 00 | 15* 30 |
| OSRAM Opto Semiconductors | | 90° | 90° |
| LED | Duris E 2835 | | |
| FWHM | Asymmetric | 25* | 75* |
| Efficiency | 82 % | 100 | |
| | | | |
| | 0.3 cd/lm | 604 | 604 |
| Peak intensity LEDs/each optic | 0.3 cd/lm | 615 200 | 60* |
| Peak intensity LEDs/each optic | 0.3 cd/lm | . 6 ³ 260 | 60* |
| Peak intensity LEDs/each optic | 0.3 cd/lm 1 White | 67 30 | 6* |
| Peak intensity LEDs/each optic Light colour | 0.3 cd/lm 1 White | e* .e* | 6* |
| Peak intensity LEDs/each optic Light colour | 0.3 cd/lm 1 White | .e | 6* |
| Peak intensity LEDs/each optic Light colour | 0.3 cd/lm 1 White | er 6' 9' | 67 |
| Peak intensity LEDs/each optic Light colour Required compon | 0.3 cd/lm 1 White | .er .er .yo .yo .yo .yo .yo .yo .yo .yo .yo .yo | 60° |
| Peak intensity LEDs/each optic Light colour | 0.3 cd/lm 1 White | e* 50 50 50 50 50 50 50 50 50 50 | 60° |
| Peak intensity LEDs/each optic Light colour Required compon | 0.3 cd/lm 1 White ents: | e* 5* 50* 50* 50* 50* 50* 50* 50* | 60° |
| Peak intensity LEDs/each optic Light colour Required compon | 0.3 cd/lm 1 White | 6° | 13° 30° |
| Peak intensity LEDs/each optic Light colour Required compon | 0.3 cd/lm 1 White ents: Duris E 2835 | 6°* 10° 10° 10° 10° 10° 10° 10° 10° | 13° 3° |
| Peak intensity LEDs/each optic Light colour Required compon | 0.3 cd/lm 1 White ents: Duris E 2835 Asymmetric | 6° | 10° |
| Peak intensity LEDs/each optic Light colour Required compon | 0.3 cd/lm 1 White ents: Duris E 2835 Asymmetric 80 % 0.3 cd/lm | 6° | 13° |
| Peak intensity LEDs/each optic Light colour Required compon Opto Semiconductors LED FWHM Efficiency Peak intensity | 0.3 cd/lm 1 White ents: Duris E 2835 Asymmetric 80 % 0.3 cd/lm | .e ⁺ xe ⁻ | 13° |
| Peak intensity LEDs/each optic Light colour Required compon Opto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic | 0.3 cd/lm 1 White ents: Duris E 2835 Asymmetric 80 % 0.3 cd/lm 1 White | er 50' 50' 50' 50' 50' 50' 50' 50' 50' 50' | |
| Peak intensity LEDs/each optic Light colour Required compon OSRAM Opto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic Light colour | 0.3 cd/lm 1 White ents: Duris E 2835 Asymmetric 80 % 0.3 cd/lm 1 White | er 50' 50' 50' 50' 50' 50' 50' 50' 50' 50' | 5° |
| Peak intensity LEDs/each optic Light colour Required compon OSRAM Opto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic Light colour | 0.3 cd/lm 1 White ents: Duris E 2835 Asymmetric 80 % 0.3 cd/lm 1 White | er 50' 50' 50' 50' 50' 50' 50' 50' 50' 50' | 13° 33° |
| Peak intensity LEDs/each optic Light colour Required compon OSRAM Opto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic Light colour | 0.3 cd/lm 1 White ents: Duris E 2835 Asymmetric 80 % 0.3 cd/lm 1 White | er 50' 50' 50' 50' 50' 50' 50' 50' 50' 50' | 12° 30° |



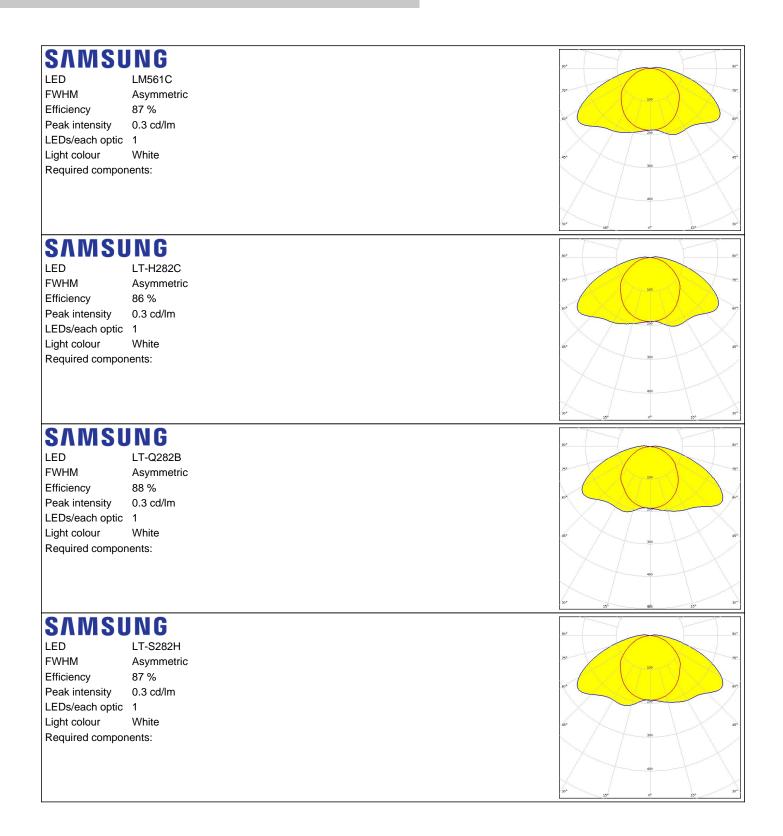
| PHILIP | S | 90* |
|-----------------|-------------------------------------------|------------------------------|
| LED | Fortimo LED Strip 1ft 1100lm FC HV4 & LV4 | |
| FWHM | Asymmetric | 751 |
| Efficiency | 82 % | |
| Peak intensity | 0.3 cd/lm | en e |
| LEDs/each optic | 1 | 200 |
| Light colour | White | -6° |
| Required compor | ents: | 30 |
| | | X X |
| | | 400 |
| | | 30° 13° 0° 13° |
| PHILIP | S | |
| LED | Fortimo LED Strip 1ft 650Im FC HV4 & LV4 | 90' 5 |
| FWHM | Asymmetric | 750 |
| Efficiency | 83 % | |
| Peak intensity | 0.3 cd/lm | 616 0 0 |
| LEDs/each optic | | 200 |
| Light colour | White | |
| Required compor | | 300 |
| | | |
| | | |
| | | |
| | | 30° 15 ⁵ 0° 15° 3 |
| SAMSU | NG | 90° 9 |
| LED | LM28xB Series | |
| FWHM | Asymmetric | 780 |
| Efficiency | 88 % | |
| Peak intensity | 0.3 cd/lm | |
| LEDs/each optic | 1 | |
| Light colour | White | 12° |
| Required compor | ents: | |
| | | |
| | | 400 |
| | | 30* |
| сллен | NC | |
| SVWSN | | 90* |
| LED | LM301B | |
| FWHM | Asymmetric | |
| Efficiency | 87 % | |
| Peak intensity | 0.3 cd/lm | 200 |
| | | X/7TVX |
| LEDs/each optic | White | 45* |
| Light colour | | |
| | ents: | |
| Light colour | ents: | ** |
| Light colour | ents: | |

Last update: 03/12/2019Subject to change without prior noticePublished: 10/04/2019LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.5/9



PRODUCT DATASHEET F16860_LINDA-UP

PHOTOMETRIC DATA (MEASURED):



Last update: 03/12/2019Subject to change without prior noticePublished: 10/04/2019LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.6/9



| SEOUL | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SEOUL SEMICONDUCTOR | | |
| LED | SEOUL DC 3528 | 30- 30- |
| FWHM | Asymmetric | 75° |
| | | 100 |
| Efficiency | 88 % | eq. () eq. |
| Peak intensity | 0.3 cd/lm | |
| LEDs/each optic | | \times $/$ 7 \wedge \times |
| Light colour | White | -6° |
| Required compon | ents: | |
| | | \times / \times |
| | | 400 |
| | | \times / \setminus \times |
| | | 30* <u>15*</u> 0° <u>15</u> * 30* |
| TRIDON | | |
| | | 90* 90* |
| LED | LLE 24x280mm 1250lm HV ADV5 | 71 |
| FWHM | Asymmetric | 100 |
| Efficiency | 83 % | |
| Peak intensity | 0.3 cd/lm | |
| LEDs/each optic | 1 | |
| Light colour | White | 6° 67 |
| Required compon | ents: | |
| | | \times / \times |
| | | 400 |
| | | |
| | | 30° 15° 30° |
| TRIDON | | |
| | | 90* 90* |
| LED | LLE 24x280mm 650lm HV ADV5 | |
| | | 76 |
| FWHM | Asymmetric | 75* |
| Efficiency | 83 % | 78° (200) 78° |
| Efficiency Peak intensity | 83 % 0.3 cd/lm | 20 20 00 00 00 00 00 00 00 00 00 00 00 0 |
| Efficiency Peak intensity LEDs/each optic | 83 % 0.3 cd/lm | 20 <u>50</u> 60' |
| Efficiency Peak intensity | 83 % 0.3 cd/lm | 20 500 500 60 60% |
| Efficiency Peak intensity LEDs/each optic | 83 % 0.3 cd/lm 1 White | -0° -0° -0° -00 -00 -00 -00 -00 -00 -00 |
| Efficiency Peak intensity LEDs/each optic Light colour | 83 % 0.3 cd/lm 1 White | 20 50 50 50 50 67 67 67 |
| Efficiency Peak intensity LEDs/each optic Light colour | 83 % 0.3 cd/lm 1 White | 6° |
| Efficiency Peak intensity LEDs/each optic Light colour | 83 % 0.3 cd/lm 1 White | 20 50 50 6° 6° 60 60 60 60 60 60 60 60 60 60 60 60 60 |
| Efficiency Peak intensity LEDs/each optic Light colour | 83 % 0.3 cd/lm 1 White | 24. 72, 64. 72, 24, 64. 660 64. 900 790 790 790 790 90 90 90 90 90 90 90 90 90 90 90 90 9 |
| Efficiency Peak intensity LEDs/each optic Light colour Required compon | 83 % 0.3 cd/lm 1 White ents: | 200 200 200 200 200 200 200 200 |
| Efficiency Peak intensity LEDs/each optic Light colour Required compon | 83 % 0.3 cd/lm 1 White ents: IC | 90, 200 90, 90, 200 90, 90, 200 90, 90, 90, 90, 90, 90, 90, 90, 90, 90, 90, 90, 90, 91, 90, 90, 92, 90, 90, 93, 94, 94, 94, 94, 94, 95, 94, 94, 96, 94, 94, 96, 94, 94, 96, 94, 94, 96, 94, 94, 96, 94, 94, 96, 94, 94, 96, 94, 94, 96, 94, 94, 96, 94, 94, 96, 94, 94, 96, 94, 94, 96, 94, 94, 96, 94, 94, |
| Efficiency Peak intensity LEDs/each optic Light colour Required compon | 83 % 0.3 cd/lm 1 White ents: ILE FLEX CC 14mm 1250lm ADV1 | |
| Efficiency Peak intensity LEDs/each optic Light colour Required compon | 83 % 0.3 cd/lm 1 White ents: ILE FLEX CC 14mm 1250lm ADV1 Asymmetric | |
| Efficiency Peak intensity LEDs/each optic Light colour Required compon | 83 % 0.3 cd/m 1 White ents: ILE FLEX CC 14mm 1250lm ADV1 Asymmetric 86 % | 20 20 20 20 20 20 20 20 20 20 |
| Efficiency Peak intensity LEDs/each optic Light colour Required compon | 83 % 0.3 cd/m 1 White ents: LLE FLEX CC 14mm 1250lm ADV1 Asymmetric 86 % 0.3 cd/lm | |
| Efficiency Peak intensity LEDs/each optic Light colour Required compon | 83 % 0.3 cd/m 1 White ents: LLE FLEX CC 14mm 1250lm ADV1 Asymmetric 86 % 0.3 cd/lm | 94 70 94 36 70 96 70 70 96 96 96 96 96 96 96 96 96 96 96 96 96 96 96 96 96 96 96 96 96 96 96 96 96 96 96 96 96 96 96 96 96 96 |
| Efficiency Peak intensity LEDs/each optic Light colour Required compon | 83 % 0.3 cd/m 1 White ents: LLE FLEX CC 14mm 1250lm ADV1 Asymmetric 86 % 0.3 cd/lm | |
| Efficiency Peak intensity LEDs/each optic Light colour Required compon TRIDON LED FWHM Efficiency Peak intensity LEDs/each optic Light colour | 83 % 0.3 cd/m 1 White ents: | 6. 90 90 90 90 90 90 90 90 90 90 |
| Efficiency Peak intensity LEDs/each optic Light colour Required compon TRIDON LED FWHM Efficiency Peak intensity LEDs/each optic | 83 % 0.3 cd/m 1 White ents: | 6, 90 90 90 90 90 90 90 90 90 90 |
| Efficiency Peak intensity LEDs/each optic Light colour Required compon TRIDON LED FWHM Efficiency Peak intensity LEDs/each optic Light colour | 83 % 0.3 cd/m 1 White ents: | |
| Efficiency Peak intensity LEDs/each optic Light colour Required compon TRIDON LED FWHM Efficiency Peak intensity LEDs/each optic Light colour | 83 % 0.3 cd/m 1 White ents: | |



PRODUCT DATASHEET F16860_LINDA-UP

PHOTOMETRIC DATA (SIMULATED):

| ns. | |
|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LUXEON CSP HL1 93.0 + 135.0° 88 % 0.4 cd/lm 5 White | |
| | |
| NFSWE11A Asymmetric 82 % 0.3 cd/lm 1 White tts: | |
| | 12 ³ , <u>6</u> , 13 ³ . |
| OSLON Square CSSRM2/CSSRM3 Asymmetric 87 % 0.3 cd/lm 1 White | |
| NG LM301B Asymmetric 87 % 0.3 cd/lm | |
| ר ר | 93.0 + 135.0° 88 % 0.4 cd/lm 5 White tts: NFSWE11A Asymmetric 82 % 0.3 cd/lm 1 White tts: OSLON Square CSSRM2/CSSRM3 Asymmetric 87 % 0.3 cd/lm 1 White tts: NG LM301B Asymmetric 87 % |



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

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