

# **MOLLY-W**

~60° wide beam

#### **TECHNICAL SPECIFICATIONS:**

Dimensions	Ø 69.8 mm
Height	22.1 mm
ROHS compliant	yes 🛈



### **MATERIAL SPECIFICATIONS:**

Component MOLLY-W **Type** Single lens

Material	Colour	Finish
PMMA	clear	

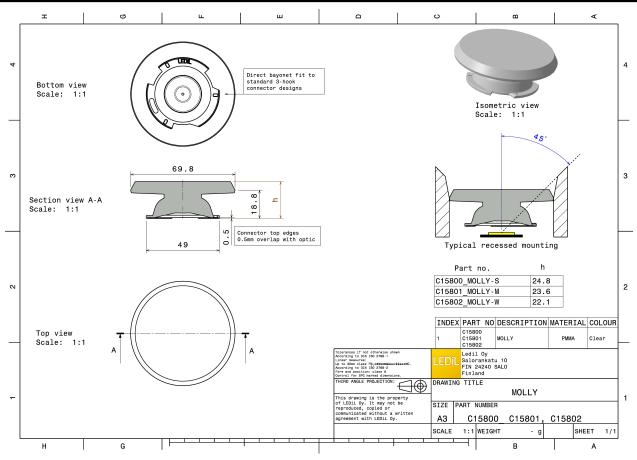
#### **ORDERING INFORMATION:**

Component C15802\_MOLLY-W » Box size: 476 x 273 x 292 mm

Qty in box	MOQ	MPQ	Box weight (kg)
198	36	18	8.1



# PRODUCT DATASHEET C15802\_MOLLY-W



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



bridgelux. LED FWHM / FWTM	V11 HD Gen 8 59.0° / 83.0°	20 20 20 20
Efficiency	90 %	ar ar
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	er d
Required compone	nts:	
Bender Wirth: 63	3d 3Hook	
		900 900 200 00 00 00 00 00 00 00 00
bridgelux.		90 <sup>*</sup>
LED	Vero SE 13	
FWHM / FWTM	62.0° / 85.0°	
Efficiency	90 %	w w
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	er et
Required compone	nts:	
C16402_CLAMP	-VEROSE-13-18	
		34 37 07 39
bridgelux.		99* 99*
LED	Vero SE 18	
FWHM / FWTM	62.0° / 87.0°	
Efficiency	90 %	w w
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	95 87
Required compone	nts:	
C16402_CLAMP	-VEROSE-13-18	
		30* 000
bridgelux.		90 <sup>4</sup> 90 <sup>4</sup> 90 <sup>4</sup>
LED	Vesta TW 15mm DP	
FWHM / FWTM	61.0° / 85.0°	71 71
Efficiency	90 %	
Peak intensity	90 % 0.8 cd/lm	60
	1	
II El Is/each ontic		er / / · · · · · · · · · · · · · · · · ·
LEDs/each optic	Tunahle White	
Light colour	Tunable White	
Light colour Required compone	nts:	
Light colour Required compone C13658_CLAMP	nts: P-VERO13-18	
Light colour Required compone	nts: P-VERO13-18	00



bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13584_CLAMF Bender Wirth: 44	P-VERO29	20° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12° (° 12
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13584_CLAMF Bender Wirth: 49	P-VERO29	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 43	CLL03x/CLU03x 61.0° / 86.0° 89 % 0.9 cd/lm 1 White ints:	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16791_CLAMF TE Connectivity	CLL03x/CLU03x 58.0° / 83.0° 90 % 0.9 cd/lm 1 White white -Z45-A	5° 50° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5°



CITIZE	2N	90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13658_CLAMI Bender Wirth: 4	LCN-C02B (Tunable White) 62.0° / 84.0° 89 % 0.9 cd/lm 1 White ents: P-VERO13-18	
	D	90* 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14123_CLAM		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14036_CLAM	CMA2550 63.0° / 88.0° 89 % 0.8 cd/lm 1 White ents: P_CXA25-30	
CREE (LE) ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14036_CLAM	CMA3090 64.0° / 89.0° 89 % 0.8 cd/lm 1 White ents:	



<b></b>		
		50,4
LED	CMT14xx	
FWHM / FWTM	60.0° / 83.0°	
Efficiency	90 %	
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	ar a
Required compone	nts:	
C13658_CLAM		
Bender Wirth: 4		
		30 157 0 <sup>10</sup> 15 <sup>10</sup> 3
		90°
LED	CMT19xx	
FWHM / FWTM	61.0° / 85.0°	12
Efficiency	90 %	
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	er de
Required compone	nts:	
C13658_CLAM	P-VERO13-18	
Bender Wirth: 4	77 Typ L1	
		30"
		25' 0' 15'
CREE÷ LE		9 <sup>1</sup>
LED	CMT28xx	
FWHM / FWTM	61.0° / 87.0°	
Efficiency	88 %	
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	9° (
Required compone	ints:	
C13584_CLAM	P-VERO29	
Bender Wirth: 4	71 Тур L3	
		20- 20- 20- 13 <sup>-</sup> 0 <sup>-</sup> 12 <sup>-</sup>
		50 <sup>+</sup>
LED	CXA/B 15xx	
FWHM / FWTM	61.0° / 84.0°	72 200
Efficiency	90 %	
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ints:	
044400 01414		
C14123_CLAM	P-CXA15-18	
C14123_CLAM	P-CXA15-18	
C14123_CLAM	2-CXA15-18	



UMIL	EDS	90 <sup>4</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CoB 1204HD 57.0° / 80.0° 89 % 1 cd/lm 1	575 697 697
Light colour Required compone TE Connectivity:	White nts: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1	
	NUS	85 9
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13658_CLAMF Bender Wirth: 45	CDM-14 (Dim-To-Warm) 64.0° / 86.0° 89 % 0.8 cd/lm 1 White nts: P-VERO13-18	
	NUS	91* 9
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CDM-18 (Dim-To-Warm) 63.0° / 87.0° 89 % 0.8 cd/lm 1 White nts:	27
C13658_CLAMF Bender Wirth: 49	P-VERO13-18	24 <sup>+</sup> 25 <sup>-</sup> 25 <sup>-</sup> 3
	NUS	50 <sup>4</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13658_CLAMF Bender Wirth: 45	CDM-9 (Dim-To-Warm) 61.0° / 83.0° 89 % 0.9 cd/lm 1 White nts: P-VERO13-18	



LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13584_CLAMF Bender Wirth: 44	CTM-14 (Tunable White) 62.0° / 85.0° 88 % 0.8 cd/lm 1 White ents: P-VERO29	
	INUS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13584_CLAMF Bender Wirth: 50	CTM-14 RGBW 61.0° / 84.0° 89 % 0.8 cd/lm 1 RGBW ents: P-VERO29	
	INUS	50° 500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13584_CLAMF Bender Wirth: 45	CTM-22 (Tunable White) 62.0° / 88.0° 87 % 0.7 cd/lm 1 White ents: P-VERO29	
<b>ØNICHI</b>		51'
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13658_CLAMF Bender Wirth: 45	NVCWJ024Z-V1MT: COB J-Type Tunable White 60.0° / 82.0° 89 % 0.9 cd/lm 1 White ents: P-VERO13-18	



OSRAM	1	90 <sup>4</sup>
LED	PrevaLED Core G7 L15 H1	
FWHM / FWTM	57.0° / 82.0°	
Efficiency	90 %	
Peak intensity	1 cd/lm	
LEDs/each optic	1	
Light colour	White	er /
Required compone	ents:	
C16685_CLAMF	P-PRV-A	
		34* 3500 12* 36
PHILIP	<b>DS</b>	
LED	Fortimo SLM L13 CoB	
FWHM / FWTM	60.0° / 83.0°	
Efficiency	89 %	
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
TE Connectivity:	: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1	
		90° 90
LED	Fortimo SLM L15 + SLM holder	
LED FWHM / FWTM	Fortimo SLM L15 + SLM holder 57.0° / 81.0°	90 <sup>+</sup> 72 <sup>+</sup> 200
LED FWHM / FWTM Efficiency	Fortimo SLM L15 + SLM holder 57.0° / 81.0° 89 %	
LED FWHM / FWTM Efficiency Peak intensity	Fortimo SLM L15 + SLM holder 57.0° / 81.0° 89 % 0.9 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo SLM L15 + SLM holder 57.0° / 81.0° 89 % 0.9 cd/Im 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo SLM L15 + SLM holder 57.0° / 81.0° 89 % 0.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo SLM L15 + SLM holder 57.0° / 81.0° 89 % 0.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo SLM L15 + SLM holder 57.0° / 81.0° 89 % 0.9 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo SLM L15 + SLM holder 57.0° / 81.0° 89 % 0.9 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TE Connectivity:	Fortimo SLM L15 + SLM holder 57.0° / 81.0° 89 % 0.9 cd/lm 1 White ents: COPTIC CLIP Z50 TYPE1 2213194-1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TE Connectivity:	Fortimo SLM L15 + SLM holder 57.0° / 81.0° 89 % 0.9 cd/lm 1 White ents: COPTIC CLIP Z50 TYPE1 2213194-1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TE Connectivity:	Fortimo SLM L15 + SLM holder 57.0° / 81.0° 89 % 0.9 cd/lm 1 White ents: COPTIC CLIP Z50 TYPE1 2213194-1 S Fortimo SLM L15 CoB	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TE Connectivity:	Fortimo SLM L15 + SLM holder 57.0° / 81.0° 89 % 0.9 cd/lm 1 White ents: COPTIC CLIP Z50 TYPE1 2213194-1 S Fortimo SLM L15 CoB 60.0° / 83.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TE Connectivity:	Fortimo SLM L15 + SLM holder 57.0° / 81.0° 89 % 0.9 cd/lm 1 White ents: COPTIC CLIP Z50 TYPE1 2213194-1 S Fortimo SLM L15 CoB 60.0° / 83.0° 88 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TE Connectivity:	Fortimo SLM L15 + SLM holder 57.0° / 81.0° 89 % 0.9 cd/lm 1 White ents: COPTIC CLIP Z50 TYPE1 2213194-1 S Fortimo SLM L15 CoB 60.0° / 83.0° 88 % 0.9 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TE Connectivity: PECONNECTION LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo SLM L15 + SLM holder 57.0° / 81.0° 89 % 0.9 cd/lm 1 White ents: COPTIC CLIP Z50 TYPE1 2213194-1 S Fortimo SLM L15 CoB 60.0° / 83.0° 88 % 0.9 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TE Connectivity: PECONNECTION EFFICIENCY Peak intensity LEDs/each optic Light colour	Fortimo SLM L15 + SLM holder 57.0° / 81.0° 89 % 0.9 cd/lm 1 White ents: COPTIC CLIP Z50 TYPE1 2213194-1 S Fortimo SLM L15 CoB 60.0° / 83.0° 88 % 0.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TE Connectivity:	Fortimo SLM L15 + SLM holder 57.0° / 81.0° 89 % 0.9 cd/lm 1 White ents: COPTIC CLIP Z50 TYPE1 2213194-1 S Fortimo SLM L15 CoB 60.0° / 83.0° 88 % 0.9 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TE Connectivity:	Fortimo SLM L15 + SLM holder 57.0° / 81.0° 89 % 0.9 cd/lm 1 White ents: COPTIC CLIP Z50 TYPE1 2213194-1 S Fortimo SLM L15 CoB 60.0° / 83.0° 88 % 0.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TE Connectivity: <b>PHILLO</b> FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo SLM L15 + SLM holder 57.0° / 81.0° 89 % 0.9 cd/lm 1 White ents: COPTIC CLIP Z50 TYPE1 2213194-1 S Fortimo SLM L15 CoB 60.0° / 83.0° 88 % 0.9 cd/lm 1 White ents:	



SAMS	UNG	90°
LED	LC035T (Tunable white)	
FWHM / FWTM	62.0° / 88.0°	72 72
Efficiency	89 %	
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	Tunable White	gr /
Required compone	ents:	
C13584_CLAM	P-VERO29	
Bender Wirth: 5	02 Typ L3	
		3/4 30
XICATO	)	
LED	XTM - 19mm LES	39-
FWHM / FWTM	00.00 / 05.00	600 +
	60.0° / 85.0°	
	90 %	<b>19</b>
Efficiency		<b>28</b>
Efficiency Peak intensity	90 %	
Efficiency Peak intensity LEDs/each optic	90 % 0.9 cd/lm	107
Efficiency Peak intensity LEDs/each optic Light colour	90 % 0.9 cd/lm 1 White	Ka
Efficiency Peak intensity LEDs/each optic Light colour	90 % 0.9 cd/lm 1 White ents:	Na
Efficiency Peak intensity LEDs/each optic Light colour Required compone	90 % 0.9 cd/lm 1 White ents:	Ka
Efficiency Peak intensity LEDs/each optic Light colour Required component	90 % 0.9 cd/lm 1 White ents:	60



# PHOTOMETRIC DATA (SIMULATED):

bridgelux.		
LED	V9 HD Gen7	
FWHM / FWTM	58.0° / 77.0°	
Efficiency	90 %	
Peak intensity	1 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:	P010.40	
C13658_CLAMP-VE		
Bender Wirth: 496 T	p L 1	
bridgelux.		90°
LED	VERO13	
FWHM / FWTM	55.0° / 75.0°	25
Efficiency	90 %	
Peak intensity	1.1 cd/lm	60*
LEDs/each optic	1	
Light colour	White	97
Required components:		
C13658_CLAMP-VE	R013-18	- 800
		30°
CITIZEN		90* 90*
LED	CLL02x/CLU02x (LES10)	
FWHM / FWTM	54.0° / 73.0°	75*
Efficiency	89 %	
Peak intensity	1.2 cd/lm	60° 60°
LEDs/each optic	1	
Light colour	' White	45° 45°
Required components:	White	
Bender Wirth: 434 T	n   1	
Bender Wirth. 434 T		
		30° 30° 30°
		119
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	
FWHM / FWTM	58.0° / 78.0°	
Efficiency	90 %	•••
Peak intensity	1.1 cd/lm	<b>***</b>
LEDs/each optic	1	•••
Light colour	White	
Required components:		•••
C14123_CLAMP-CX	A15-18	200
		299
		100
		-118.0" -112.6" -90.0" -47.6" -46.0" -22.6" 0.0" 22.6" 48.0" 67.8" 90.0" 112.6" 118.0"



# PHOTOMETRIC DATA (SIMULATED):

	CXA/B 25xx	109 L
FWHM / FWTM	57.0° / 77.0°	
Efficiency	%	50
Peak intensity	1.1 cd/lm	70
LEDs/each optic	1	<b>(3)</b>
Light colour	White	50
Required componen	IS:	••• ••• ••• ••• ••• ••• ••• ••• ••• ••
C14036_CLAMP_CXA25-30		599
		201
		10
		-184.5 - 18.4 - 46.5 - 47.4 - 46.5 - 52.6 - 6.4 - 21.4 - 66.7 - 18.5 - 18.5
	NUS	
LED	CTM-18 (Tunable White)	
FWHM / FWTM	54.0° / 75.0°	
Efficiency	80 %	
Peak intensity	1 cd/lm	
	1	
LEDs/each optic		
LEDs/each optic Light colour	White	
-		



#### **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.

Due to use of high power COB's with this product, special attention to proper thermal design is highly recommended. LEDiL has no liability for direct, indirect or consecutive damages arising from the LEDiL products being used outside of the recommended temperature range.

#### **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