

# PRODUCT DATASHEET FN14074\_STELLA-HB

# **STELLA-HB**

~75° high bay beam for warehouse and outdoor lighting. Compatible with up to 30 mm LES size. Variant with black frame. COBs.

### **TECHNICAL SPECIFICATIONS:**

Dimensions	Ø 90.0 mm
Height	19.5 mm
Fastening	screw
Ingress protection classes	IP67
ROHS compliant	yes 🛈



Colour

clear black Finish

## **MATERIAL SPECIFICATIONS:**

Component
STELLA-HB
STELLA-FRAME

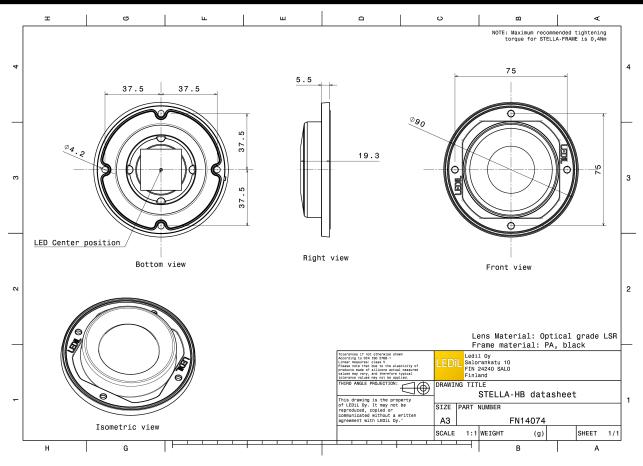
Туре	Material
Single lens	Silicone
Holder	PA66

### **ORDERING INFORMATION:**

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FN14074_STELLA-HB	Single lens	135	135	15	7.9
» Box size: 480 x 280 x 300 mm					



# PRODUCT DATASHEET FN14074\_STELLA-HB



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



bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	V18 Gen7 80.0° / 101.0° 93 % 0.6 cd/lm 1 White hts:	99° 99° 99° 99° 99° 99° 99° 99° 99° 99°
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	V22 Gen7 75.0° / 101.0° 93 % 0.7 cd/lm 1 White nts:	
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	VERO18 75.0° / 96.0° 93 % 0.7 cd/lm 1 White nts:	
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	VERO29 69.0° / 104.0° 94 % 0.7 cd/lm 1 White hts:	



CITIZE	:N	397
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 4	CLL04x/CLU04x 68.0° / 94.0° 93 % 0.8 cd/lm 1 White ents:	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CLL04x/CLU04x 77.0° / 101.0° 94 % 0.7 cd/lm 1 White	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 4	CLL05x/CLU05x 65.0° / 103.0° 94 % 0.7 cd/lm 1 White ents:	
CITIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CLL05x/CLU05x 73.0° / 110.0° 93 % 0.6 cd/lm 1 White	



CREE 4		891
LED	CMA2550	
FWHM / FWTM	74.0° / 96.0°	
Efficiency	94 %	
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	ar an
Required compone		
		(p)
CREE -	11	30"
LED	CMA3090	
FWHM / FWTM	67.0° / 96.0°	
Efficiency	96 %	
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	¢. A
Required compone	ents:	
		34 30 3
CREE 4		35 <sup>9</sup> 0 <sup>4</sup> 10 <sup>5</sup>
CKEE -		
		90"
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	
LED FWHM / FWTM	CXA/B 1816 & CXA/B 1820 & CXA 1850 87.0° / 104.0°	
LED FWHM / FWTM Efficiency	CXA/B 1816 & CXA/B 1820 & CXA 1850 87.0° / 104.0° 93 %	
LED FWHM / FWTM Efficiency Peak intensity	CXA/B 1816 & CXA/B 1820 & CXA 1850 87.0° / 104.0° 93 % 0.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CXA/B 1816 & CXA/B 1820 & CXA 1850 87.0° / 104.0° 93 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CXA/B 1816 & CXA/B 1820 & CXA 1850 87.0° / 104.0° 93 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CXA/B 1816 & CXA/B 1820 & CXA 1850 87.0° / 104.0° 93 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CXA/B 1816 & CXA/B 1820 & CXA 1850 87.0° / 104.0° 93 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CXA/B 1816 & CXA/B 1820 & CXA 1850 87.0° / 104.0° 93 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CXA/B 1816 & CXA/B 1820 & CXA 1850 87.0° / 104.0° 93 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CXA/B 1816 & CXA/B 1820 & CXA 1850 87.0° / 104.0° 93 % 0.6 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CXA/B 1816 & CXA/B 1820 & CXA 1850 87.0° / 104.0° 93 % 0.6 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CXA/B 1816 & CXA/B 1820 & CXA 1850 87.0° / 104.0° 93 % 0.6 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CXA/B 1816 & CXA/B 1820 & CXA 1850 87.0° / 104.0° 93 % 0.6 cd/lm 1 White ents: CXA/B 25xx 83.0° / 102.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CXA/B 1816 & CXA/B 1820 & CXA 1850 87.0° / 104.0° 93 % 0.6 cd/lm 1 White ents: CXA/B 25xx 83.0° / 102.0° 93 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CXA/B 1816 & CXA/B 1820 & CXA 1850 87.0° / 104.0° 93 % 0.6 cd/lm 1 White ents: CXA/B 25xx 83.0° / 102.0° 93 % 0.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREEE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CXA/B 1816 & CXA/B 1820 & CXA 1850 87.0° / 104.0° 93 % 0.6 cd/lm 1 White ents: CXA/B 25xx 83.0° / 102.0° 93 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREEE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CXA/B 1816 & CXA/B 1820 & CXA 1850 87.0° / 104.0° 93 % 0.6 cd/lm 1 White ents: CXA/B 25xx 83.0° / 102.0° 93 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREEE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CXA/B 1816 & CXA/B 1820 & CXA 1850 87.0° / 104.0° 93 % 0.6 cd/lm 1 White ents: CXA/B 25xx 83.0° / 102.0° 93 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CXA/B 1816 & CXA/B 1820 & CXA 1850 87.0° / 104.0° 93 % 0.6 cd/lm 1 White ents: CXA/B 25xx 83.0° / 102.0° 93 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREEE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CXA/B 1816 & CXA/B 1820 & CXA 1850 87.0° / 104.0° 93 % 0.6 cd/lm 1 White ents: CXA/B 25xx 83.0° / 102.0° 93 % 0.6 cd/lm 1 White	
ED WHM / FWTM Efficiency Peak intensity EDs/each optic .ight colour Required compone CREEE ED WHM / FWTM Efficiency Peak intensity .EDs/each optic .ight colour	CXA/B 1816 & CXA/B 1820 & CXA 1850 87.0° / 104.0° 93 % 0.6 cd/lm 1 White ents: CXA/B 25xx 83.0° / 102.0° 93 % 0.6 cd/lm 1 White	



<b>CREE</b>		30* 30*
LED	CXA/B 30xx	
FWHM / FWTM	78.0° / 103.0°	
Efficiency	93 %	e0 <sup>0</sup> - 200
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	400 400
Required compone	nts:	
		evo
		30° 30° 15°
CREE -		90°
LED	CXA/B 3590	
FWHM / FWTM	72.0° / 106.0°	73
Efficiency	93 %	200
Peak intensity	0.7 cd/lm	60 <sup></sup>
LEDs/each optic	1	
Light colour	White	a5+ 400 a5*
Required compone	nts:	
	EDS	50° 90°
LED	LUXEON CoB 1211	
FWHM / FWTM	71.0° / 93.0°	75.
Efficiency	93 %	
Peak intensity	0.7 cd/lm	
LEDs/each optic		
	1	
Light colour	1 White	ay 400
Light colour Required compone	White	440
	White	e <sup>7</sup> 40 e <sup>7</sup>
	White	e <sup>r</sup> 60
	White	
Required compone	White nts:	84 84 84 84 84 84 84 84 84 84
Required compone	White nts:	
Required compone	White nts: EDS LUXEON CoB 1216/1812	
Required compone	White nts: EDS LUXEON CoB 1216/1812 72.0° / 99.0°	
Required compone	White nts: EDS LUXEON CoB 1216/1812 72.0° / 99.0° 94 %	
Required compone <b>LUMIL</b> LED FWHM / FWTM Efficiency Peak intensity	White nts: EDS LUXEON CoB 1216/1812 72.0° / 99.0°	
Required compone	White nts: EDS LUXEON CoB 1216/1812 72.0° / 99.0° 94 % 0.7 cd/lm	
Required compone <b>LUMIL</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	White nts: EDS LUXEON CoB 1216/1812 72.0° / 99.0° 94 % 0.7 cd/lm 1 White	
Required compone <b>LUMIL</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	White nts: EDS LUXEON CoB 1216/1812 72.0° / 99.0° 94 % 0.7 cd/lm 1 White	
Required compone <b>LUMIL</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	White nts: EDS LUXEON CoB 1216/1812 72.0° / 99.0° 94 % 0.7 cd/lm 1 White	
Required compone <b>LUMIL</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	White nts: EDS LUXEON CoB 1216/1812 72.0° / 99.0° 94 % 0.7 cd/lm 1 White	



	EDC	
LED	LUXEON CoB 1321	
LED FWHM / FWTM	T1.0° / 108.0°	
Efficiency	94 %	
Peak intensity	94 % 0.7 cd/lm	
LEDs/each optic	1	
LEDS/each optic	White	ar 400 ar
Required compone		
Required compone	115.	
		90° 135' 0 <sup>4</sup> 135' 390
	EDS	50 <sup>4</sup>
LED	LUXEON CoB 1825	
FWHM / FWTM	72.0° / 111.0°	
Efficiency	93 %	69
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	a
Required compone	nts:	
		60
	NUS	30, 30,
LED	CxM-18 (21.5x21.5)	
FWHM / FWTM	80.0° / 100.0°	72
Efficiency	93 %	
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	g.
Required compone	nts:	
		30 <sup>5</sup> 0 <sup>6</sup> 0 3. <sup>4</sup>
	NUS	
LED	CxM-22 (28x28)	
FWHM / FWTM	73.0° / 100.0°	
Efficiency	93 %	
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		



$\sim$					1
<b>ØNICHI</b>				90*	90*
LED	СОВ Н-Туре				
FWHM / FWTM	74.0° / 102.0°				$\sqrt{7}$
Efficiency	94 %			60° 200	60°
Peak intensity	0.7 cd/lm				
LEDs/each optic	1				
Light colour	White			400	
Required compone	ents:				
				300	30.
					10
LED	COB J-Type				90*
FWHM / FWTM	84.0° / 102.0°	100 B (100 B) (17)		750	
Efficiency	94 %		118		$-\chi$
Peak intensity	0.6 cd/lm			504 200	504
LEDs/each optic	1				
Light colour	White				
Required compone				400	
				XN	
				600	
				/30° 15° 0°	30* 15*
OSRAM Opto Semiconductors				90*	90*
OSRAM Opto Semiconductors LED	Soleriq S19			90*	
Opto Semiconductors	84.0° / 101.0°			<b>W</b> *	80* 
Opto Semiconductors				20	9°
opto Semiconductors LED FWHM / FWTM	84.0° / 101.0°			99° 750 66° 200	95° 75° 66
Opto Semiconductors LED FWHM / FWTM Efficiency	84.0° / 101.0° 92 %			99° 33 80° 200	94 95 95
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	84.0° / 101.0° 92 % 0.6 cd/lm			99° 73° 86° 200	5°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	84.0° / 101.0° 92 % 0.6 cd/lm 1 White			99° 73° 60° 200 40° 400	64 64
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	84.0° / 101.0° 92 % 0.6 cd/lm 1 White			50° 200 50° 50° 400	9°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	84.0° / 101.0° 92 % 0.6 cd/lm 1 White			90* 790 60* 200 -55* 400	5°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	84.0° / 101.0° 92 % 0.6 cd/lm 1 White			90° 32° 40° 50° 40° 50° 40° 50° 40° 50° 40° 50° 40° 50° 40° 50° 40° 50° 50° 50° 50° 50° 50° 50° 5	50°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	84.0° / 101.0° 92 % 0.6 cd/lm 1 White Ints:			90° 323 40° 50° 50° 40° 50° 40° 50° 40° 50° 40° 50° 40° 50° 40° 50° 40° 50° 40° 50° 50° 50° 50° 50° 50° 50° 5	50°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	84.0° / 101.0° 92 % 0.6 cd/lm 1 White Ints:			20 40 -05 -05 -05 -05 -05 -05 -05 -0	64 67 67 69 69 69 69 69 69
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	84.0° / 101.0° 92 % 0.6 cd/lm 1 White Ints:				5°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLEP LED FWHM / FWTM	84.0° / 101.0° 92 % 0.6 cd/lm 1 White Ints: S Fortimo SLM L19 CoB 71.0° / 94.0°			20 40 -05 -05 -05 -05 -05 -05 -05 -0	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLE LED FWHM / FWTM Efficiency	84.0° / 101.0° 92 % 0.6 cd/lm 1 White Ints: S Fortimo SLM L19 CoB 71.0° / 94.0° 94 %			20 40 -05 -05 -05 -05 -05 -05 -05 -0	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLE FWHM / FWTM Efficiency Peak intensity	84.0° / 101.0° 92 % 0.6 cd/lm 1 White ints: S Fortimo SLM L19 CoB 71.0° / 94.0° 94 % 0.8 cd/lm			20 40 -05 -05 -05 -05 -05 -05 -05 -0	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLE FWHM / FWTM Efficiency Peak intensity LEDs/each optic	84.0° / 101.0° 92 % 0.6 cd/lm 1 White ints:			20 40 -05 -05 -05 -05 -05 -05 -05 -0	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	84.0° / 101.0° 92 % 0.6 cd/lm 1 White I White Fortimo SLM L19 CoB 71.0° / 94.0° 94 % 0.8 cd/lm 1 White			20 40 -05 -05 -05 -05 -05 -05 -05 -0	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	84.0° / 101.0° 92 % 0.6 cd/lm 1 White I White S Fortimo SLM L19 CoB 71.0° / 94.0° 94 % 0.8 cd/lm 1 White I White I N N N N N N N N N N N N N			20 40 -05 -05 -05 -05 -05 -05 -05 -0	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLE FWHM / FWTM Efficiency Peak intensity LEDs/each optic	84.0° / 101.0° 92 % 0.6 cd/lm 1 White I White S Fortimo SLM L19 CoB 71.0° / 94.0° 94 % 0.8 cd/lm 1 White I White I N N N N N N N N N N N N N			20 40 -05 -05 -05 -05 -05 -05 -05 -0	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	84.0° / 101.0° 92 % 0.6 cd/lm 1 White I White S Fortimo SLM L19 CoB 71.0° / 94.0° 94 % 0.8 cd/lm 1 White I White I N N N N N N N N N N N N N			20 40 -05 -05 -05 -05 -05 -05 -05 -0	



LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 4	Fortimo SLM L23 CoB 67.0° / 96.0° 94 % 0.8 cd/lm 1 White ents:	
SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC016D / LC019D / LC026D / LC033D 83.0° / 101.0° 93 % 0.6 cd/lm 1 White	
SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC040D / LC060D / LC080D 76.0° / 102.0° 93 % 0.7 cd/lm 1 White	
SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC040D / LC060D / LC080D 77.0° / 104.0° 93 % 0.6 cd/lm 1 White	



SEOUL SEMICONDUCTOR			90 <sup>4</sup>
LED	MJT COB LES 33		75*
FWHM / FWTM	68.0° / 106.0°		
Efficiency	93 %		60°
Peak intensity	0.7 cd/lm		
LEDs/each optic	1		
Light colour	White		g- 400
Required compone	ents:		
Bender Wirth: 4	58 Typ L4		
			30 30
			15° 0° 135°



# PHOTOMETRIC DATA (SIMULATED):

bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 431 Ty	V22 Gen7 68.0° / 92.0° 94 % 0.9 cd/lm 1 White	22.         900           23.         900           23.         900           30.         900
		30° 25° 0° 15° 30°
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	CMT28xx 73.0° / 98.0° 91 % 0.7 cd/lm 1 White	50 52 00 12 0 12 0 12 0 12 0 12 0 12 0 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	CXM-32 68.0° / 104.0° 96 % 0.7 cd/lm 1 White	



# PRODUCT DATASHEET FN14074\_STELLA-HB

#### **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