

PRODUCT DATASHEET CA18102_TINA-Y-RS

TINA-Y-RS

~14° spot beam. Assembly with holder, installation tape and pins.

SPECIFICATION:

Dimensions	Ø 16.1 mm
Height	10 mm
Fastening	tape, pin
ROHS compliant	yes 🕕



MATERIALS:

Component TINA-Y-RS TINA-Y-HLD TINA-Y-TAPE

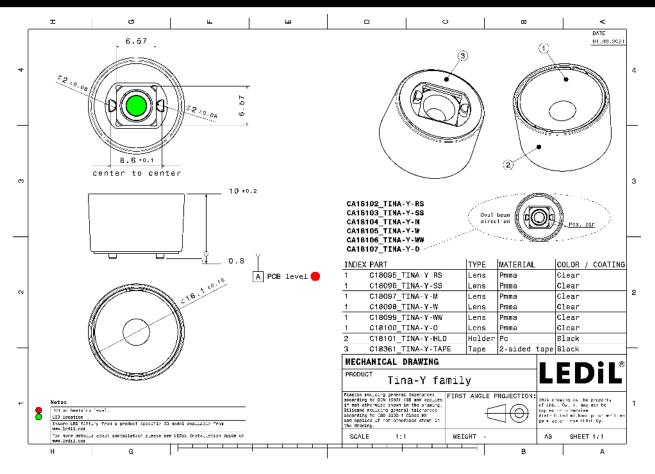
Туре	
Single lens	
Holder	
Таре	

Material	Colour	Finish
PMMA	clear	gloss
PC	black	gloss
Acrylic foam		

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
CA18102_TINA-Y-RS	3900	300	300	5.6
» Box size: 476 x 273 x 197 mm				

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See also our general installation guide: www.ledil.com/installation_guide



OPTICAL RESULTS (MEASURED):

CREE LEC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G3 18.0° / 35.0° 81 % 5.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW719AC 16.0° / 29.0° 88 % 8.8 cd/lm 1 White	



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LED	XD16 Premium	n A A A
FWHM / FWTM	12.0° / 24.0°	
Efficiency	86 %	$r \times / / \times \times$
Peak intensity	13.4 cd/lm	
LEDs/each optic	1 White	
Light colour Required components:	White	
Required components.		
		ar
LED	XE-G	
FWHM / FWTM	14.0° / 26.0°	
Efficiency	87 %	r / / have have
Peak intensity	10.3 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
		\times
	XHP35.2 HD	×
	XHP35.2 HD 30.0° / 52.0°	
LED		
LED FWHM / FWTM	30.0° / 52.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	30.0° / 52.0° 76 % 2.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	30.0° / 52.0° 76 % 2.5 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	30.0° / 52.0° 76 % 2.5 cd/lm 1	22 27 27 27 27 27 27 27 27 27 27 27 27 2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	30.0° / 52.0° 76 % 2.5 cd/lm 1	22 27 27 27 27 27 27 27 27 27 27 27 27 2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	30.0° / 52.0° 76 % 2.5 cd/lm 1	22 27 27 27 27 27 27 27 27 27 27 27 27 2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	30.0° / 52.0° 76 % 2.5 cd/lm 1	22 27 29
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	30.0° / 52.0° 76 % 2.5 cd/lm 1	22 27 27 20 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	30.0° / 52.0° 76 % 2.5 cd/lm 1	22 27 47 47 47 47 47 47 47 47 47 4
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	30.0° / 52.0° 76 % 2.5 cd/lm 1 White	22 27 47 47 47 47 47 47 47 47 47 4
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	30.0° / 52.0° 76 % 2.5 cd/lm 1 White	22 27 47 47 47 47 47 47 47 47 47 4
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	30.0° / 52.0° 76 % 2.5 cd/lm 1 White XHP35.2 HI 22.0° / 44.0°	22 27 47 47 47 47 47 47 47 47 47 4
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	30.0° / 52.0° 76 % 2.5 cd/lm 1 White XHP35.2 HI 22.0° / 44.0° 84 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED EU FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	30.0° / 52.0° 76 % 2.5 cd/lm 1 White XHP35.2 HI 22.0° / 44.0° 84 % 3.9 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	30.0° / 52.0° 76 % 2.5 cd/lm 1 White XHP35.2 HI 22.0° / 44.0° 84 % 3.9 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	30.0° / 52.0° 76 % 2.5 cd/lm 1 White XHP35.2 HI 22.0° / 44.0° 84 % 3.9 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED EU FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	30.0° / 52.0° 76 % 2.5 cd/lm 1 White XHP35.2 HI 22.0° / 44.0° 84 % 3.9 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	30.0° / 52.0° 76 % 2.5 cd/lm 1 White XHP35.2 HI 22.0° / 44.0° 84 % 3.9 cd/lm 1	



LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XHP50.3 HI 24.0° / 48.0° 82 % 3.4 cd/lm 1 White	
CREE LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XM-L RGBW (XMLDCL HD) 30.0° / 49.0° 85 % 2.8 cd/lm 1 RGBW	
CREE LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XM-L RGBW (XMLDCL HI) 20.0° / 37.0° 85 % 5.3 cd/lm 1 RGBW	
CREE LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XM-L3 21.0° / 40.0° 81 % 4.3 cd/lm 1 White	



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LED	XP-E2	A A L
FWHM / FWTM	11.0° / 22.0°	
Efficiency	88 %	
Peak intensity	16 cd/lm	
LEDs/each optic	1	
Light colour	' White	
Required components:	White	
Required components:		
		\times / 1 / \times
		6.7
LED	XP-G2	
FWHM / FWTM	15.0° / 28.0°	
Efficiency	88 %	
Peak intensity	9.6 cd/lm	\times $/7$ \times \times
LEDs/each optic	1	$1 \times 7 / 1 \times 1$
Light colour	White	
Required components:		for a set
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		£.*
	YD.D	
LED	XP-P 10.0° / 20.0°	
LED FWHM / FWTM	10.0° / 20.0°	
LED FWHM / FWTM Efficiency	10.0° / 20.0° 89 %	
LED FWHM / FWTM Efficiency Peak intensity	10.0° / 20.0° 89 % 20.4 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	10.0° / 20.0° 89 % 20.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	10.0° / 20.0° 89 % 20.4 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	10.0° / 20.0° 89 % 20.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	10.0° / 20.0° 89 % 20.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	10.0° / 20.0° 89 % 20.4 cd/lm 1	55
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	10.0° / 20.0° 89 % 20.4 cd/lm 1	55
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	10.0° / 20.0° 89 % 20.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	10.0° / 20.0° 89 % 20.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	10.0° / 20.0° 89 % 20.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	10.0° / 20.0° 89 % 20.4 cd/lm 1 White XQ-E HD 12.0° / 22.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	10.0° / 20.0° 89 % 20.4 cd/lm 1 White XQ-E HD 12.0° / 22.0° 87 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	10.0° / 20.0° 89 % 20.4 cd/lm 1 White XQ-E HD 12.0° / 22.0° 87 % 14.8 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	10.0° / 20.0° 89 % 20.4 cd/lm 1 White XQ-E HD 12.0° / 22.0° 87 % 14.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	10.0° / 20.0° 89 % 20.4 cd/lm 1 White XQ-E HD 12.0° / 22.0° 87 % 14.8 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	10.0° / 20.0° 89 % 20.4 cd/lm 1 White XQ-E HD 12.0° / 22.0° 87 % 14.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	10.0° / 20.0° 89 % 20.4 cd/lm 1 White XQ-E HD 12.0° / 22.0° 87 % 14.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	10.0° / 20.0° 89 % 20.4 cd/lm 1 White XQ-E HD 12.0° / 22.0° 87 % 14.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	10.0° / 20.0° 89 % 20.4 cd/lm 1 White XQ-E HD 12.0° / 22.0° 87 % 14.8 cd/lm 1	



LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XQ-E HI 8.0° / 18.0° 87 % 25.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Round LES 28.0° / 56.0° 81 % 2.5 cd/lm 1 White	
LUMILED FWHM / FWTM Efficiency	LUXEON 5050 Square LES 26.0° / 56.0° 80 %	
Peak intensity LEDs/each optic Light colour Required components:	2.5 cd/lm 1 White	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON C 12.0° / 24.0° 79 % 12.3 cd/lm 1 White	



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LED	LUXEON CZ	
FWHM / FWTM	10.0° / 19.0°	$\nabla \Delta \Delta $
Efficiency	88 %	er X / / · · · · · · · · · · · · · · · · ·
Peak intensity	21.4 cd/lm	$\Gamma \times / / \Lambda \times \times$
LEDs/each optic	1	
Light colour	Red	· / /
Required components:		X//X
LED	LUXEON HL2X	
FWHM / FWTM	20.0° / 32.0°	
Efficiency	87 %	
Peak intensity	6.4 cd/lm	$\sqrt{\lambda}$
LEDs/each optic	1	
Light colour	White	
Required components:		/ Jan
		\times $(\setminus) \times$
	S	a.v
LED	LUXEON Rubix	
FWHM / FWTM	8.0° / 18.0°	
Efficiency	89 %	
Peak intensity	26.1 cd/lm	
LEDs/each optic	1	
Light colour	Blue	
Required components:		
)S	
LED	LUXEON Z ES	
FWHM / FWTM	12.0° / 24.0°	
Efficiency	87 %	LX/MANX
Peak intensity	13.1 cd/lm	$r \times / / $
LEDs/each optic	1	
Light colour	White	
Required components:		

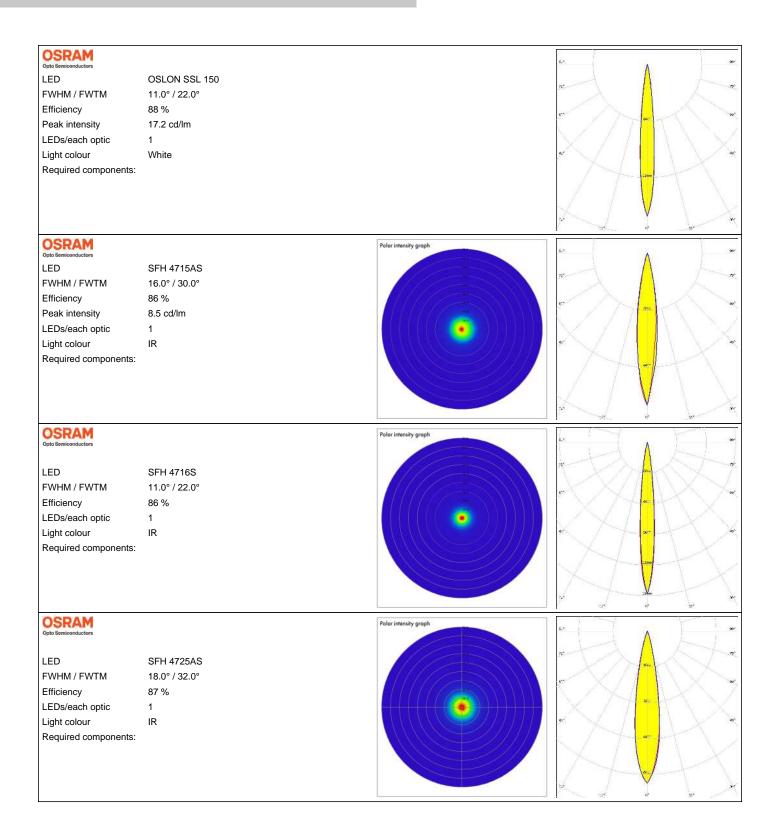


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LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	SST-20 12.0° / 26.0° 86 % 11.8 cd/lm 1 White	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NF2W757H 18.0° / 34.0° 89 % 6.9 cd/lm 1 White	
WICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NV4WB35AM 24.0° / 46.0° 86 % 3.7 cd/lm 1 White	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NVSW219F 19.0° / 32.0° 87 % 6.5 cd/m 1 White	



	NVSxE21A	
FWHM / FWTM	14.0° / 32.0°	$\sum X / M = K \setminus X = 7$
Efficiency	80 %	
Peak intensity	7.6 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		XLX.
OSRAM Opto Semiconductors		×
LED	Duris S5 (2 chip)	
FWHM / FWTM	15.0° / 33.0°	
Efficiency	88 %	
Peak intensity	7.8 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
		1 And the second
		\times $(\land $
		10° 10' 10'
OSRAM Orte Semiconductors		
Opto Semiconductors	OSLON Square CSSRM2/CSSRM3	
Opto Semiconductors LED	OSLON Square CSSRM2/CSSRM3 12.0° / 23.0°	
Opto Semiconductors LED FWHM / FWTM	OSLON Square CSSRM2/CSSRM3 12.0° / 23.0° 87 %	
Opto Semiconductors LED FWHM / FWTM Efficiency	12.0° / 23.0° 87 %	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	12.0° / 23.0°	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	12.0° / 23.0° 87 % 15.3 cd/lm 1	
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	12.0° / 23.0° 87 % 15.3 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	12.0° / 23.0° 87 % 15.3 cd/lm 1	
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	12.0° / 23.0° 87 % 15.3 cd/lm 1	
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	12.0° / 23.0° 87 % 15.3 cd/lm 1	25
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	12.0° / 23.0° 87 % 15.3 cd/lm 1	25 27 27 27 27 27 27 27 27 27 27 27 27 27
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	12.0° / 23.0° 87 % 15.3 cd/lm 1	25 19 19 10 10 10 10 10 10 10
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM	12.0° / 23.0° 87 % 15.3 cd/lm 1	
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	12.0° / 23.0° 87 % 15.3 cd/lm 1 Far Red	25 19 19 10 10 10 10 10 10 10
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED	12.0° / 23.0° 87 % 15.3 cd/lm 1 Far Red OSLON Square CSSRM2/CSSRM3	
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM	12.0° / 23.0° 87 % 15.3 cd/lm 1 Far Red OSLON Square CSSRM2/CSSRM3 15.0° / 27.0°	
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	12.0° / 23.0° 87 % 15.3 cd/lm 1 Far Red OSLON Square CSSRM2/CSSRM3 15.0° / 27.0° 88 %	
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	12.0° / 23.0° 87 % 15.3 cd/lm 1 Far Red OSLON Square CSSRM2/CSSRM3 15.0° / 27.0° 88 % 10 cd/lm	
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	12.0° / 23.0° 87 % 15.3 cd/lm 1 Far Red OSLON Square CSSRM2/CSSRM3 15.0° / 27.0° 88 % 10 cd/lm 1	
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	12.0° / 23.0° 87 % 15.3 cd/lm 1 Far Red OSLON Square CSSRM2/CSSRM3 15.0° / 27.0° 88 % 10 cd/lm 1	







OSRAM Opto Semiconductors		Polar intensity graph	EV
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	SFH 4725S 13.0° / 28.0° 87 % 1 IR		
SAMSUN	1G		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH351B 20.0° / 34.0° 86 % 6.2 cd/lm 1 White		



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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.

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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