

HB-2X2-M-BLIND

~25° medium beam without centre screw hole
for easier potting

SPECIFICATION:

Dimensions	50.0 x 50.0 mm
Height	8.5 mm
Fastening	glue, pin
ROHS compliant	yes ⓘ

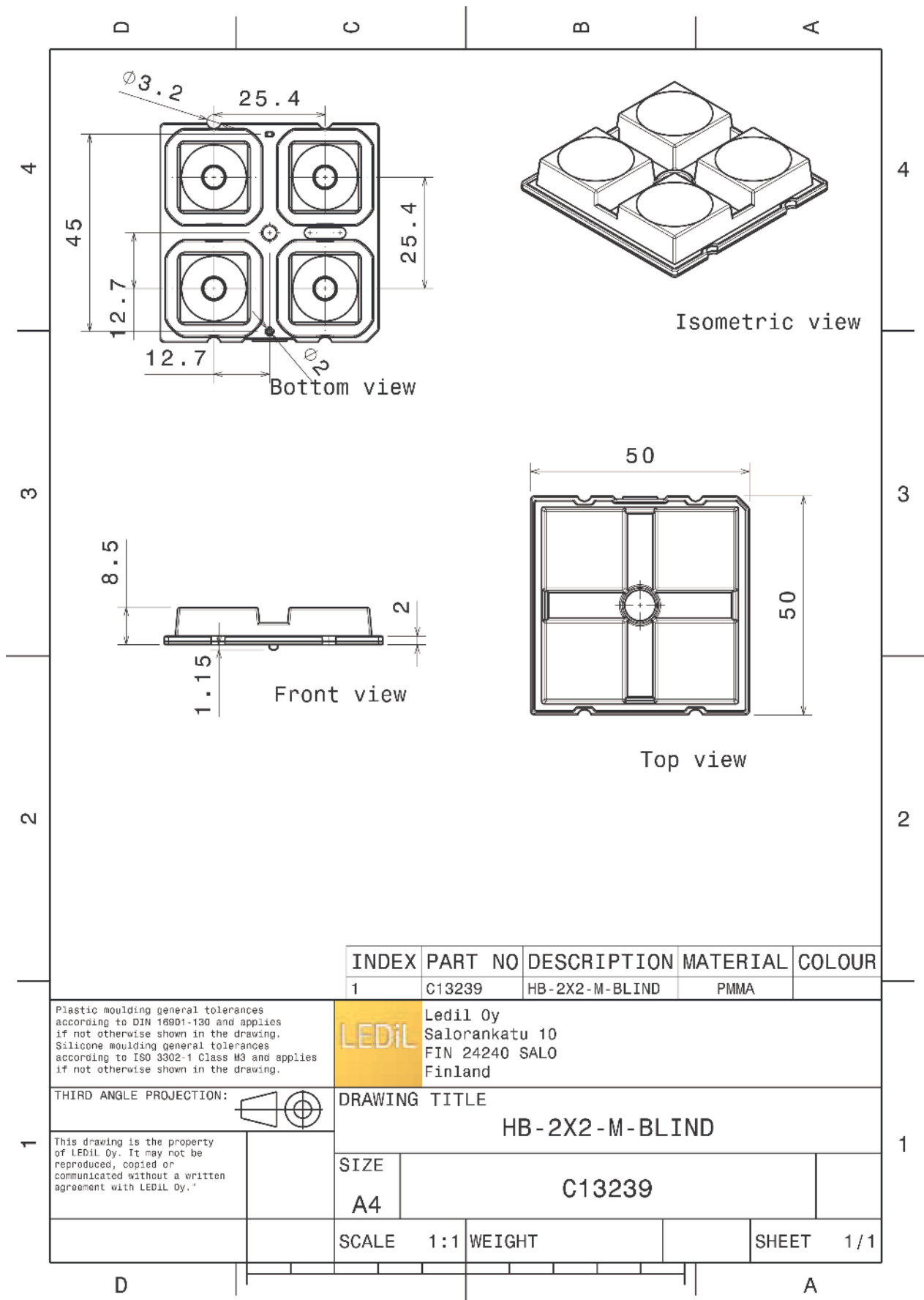
MATERIALS:

Component	Type	Material	Colour	Finish
HB-2X2-M-BLIND	Multi-lens	PMMA	clear	

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C13239_HB-2X2-M-BLIND » Box size: 480 x 280 x 300 mm	800	160	160	9.3





INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	C13239	HB-2X2-M-BLIND	PMMA	

Plastic moulding general tolerances according to DIN 169D1-130 and applies if not otherwise shown in the drawing. Silicone moulding general tolerances according to ISO 3302-1 Class M3 and applies if not otherwise shown in the drawing.

LEDiL LediL Oy
Salorankatu 10
FIN 24240 SALO
Finland

THIRD ANGLE PROJECTION:

DRAWING TITLE
HB-2X2-M-BLIND


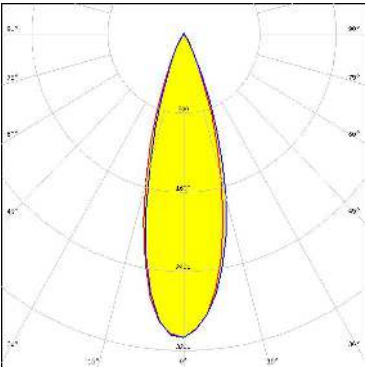

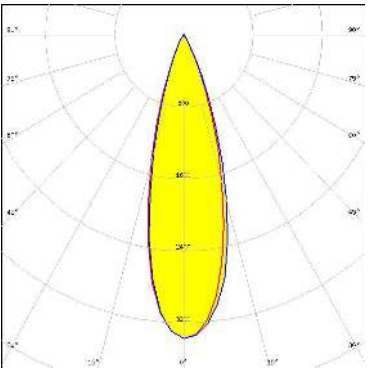

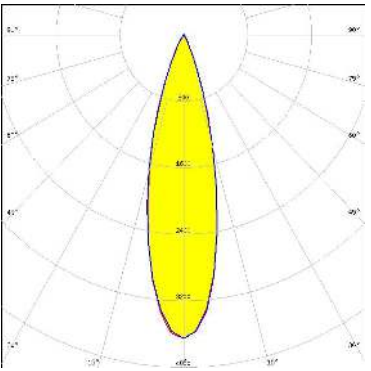

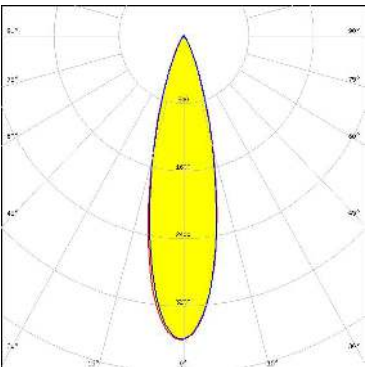
This drawing is the property of LEDiL Oy. It may not be reproduced, copied or communicated without a written agreement with LEDiL Oy.

SIZE
A4 **C13239**

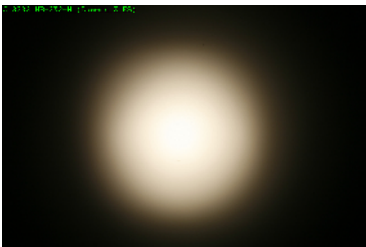
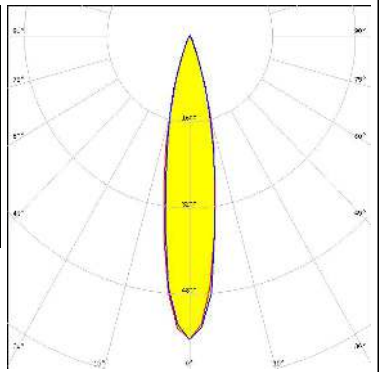
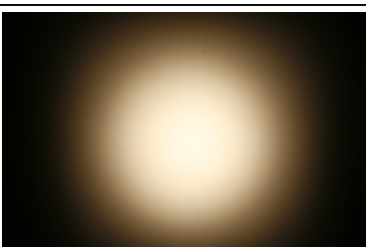
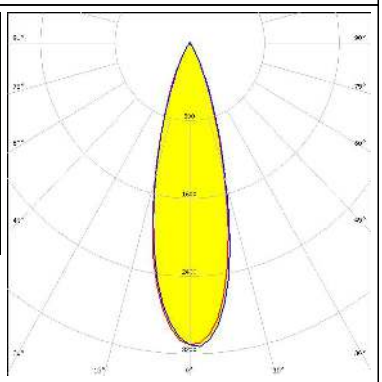
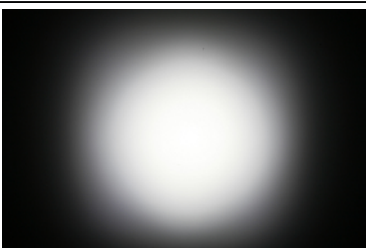
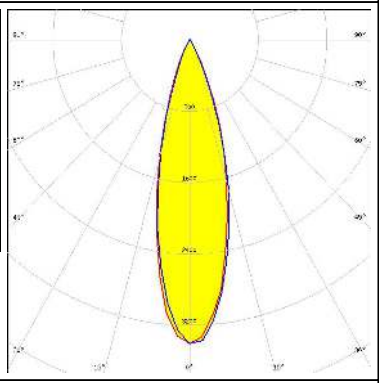
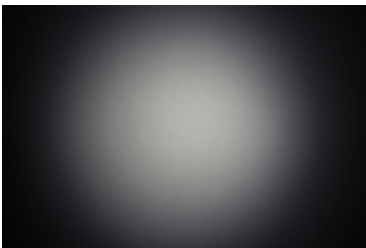
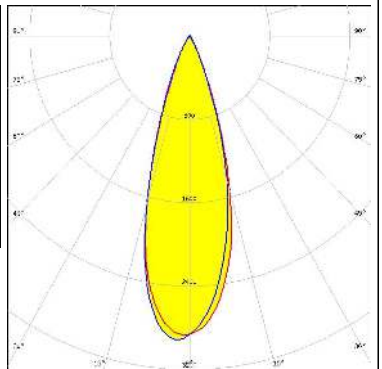
SCALE 1:1 WEIGHT SHEET 1/1

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

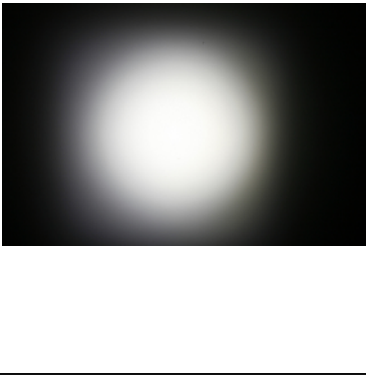
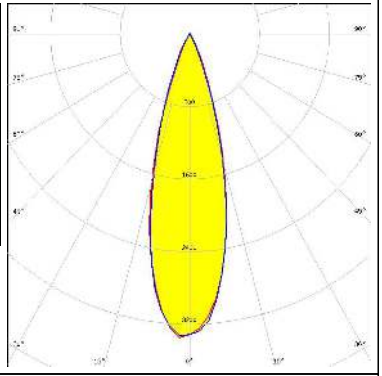
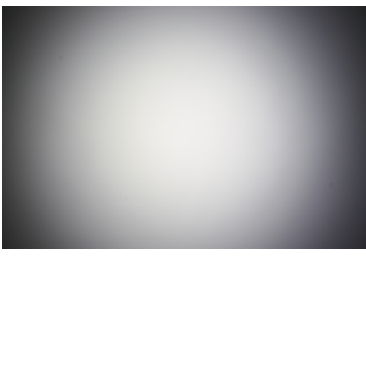
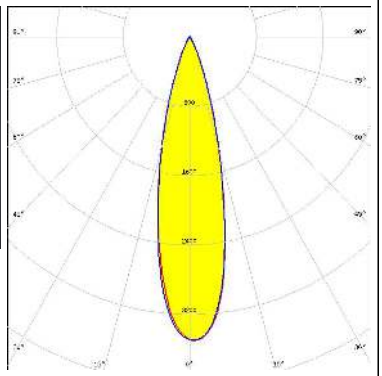

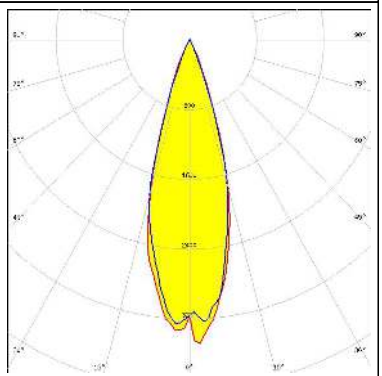

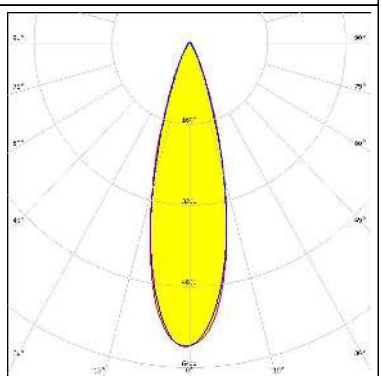
OPTICAL RESULTS (MEASURED):

<p>CREE LEDs</p> <p>LED XP-G FWHM / FWTM 31.0° / 54.0° Efficiency 91 % Peak intensity 3.1 cd/m LEDs/each optic 1 Light colour White Required components:</p>		
<p>CREE LEDs</p> <p>LED XP-G2 FWHM / FWTM 33.0° / 54.0° Efficiency 93 % Peak intensity 3.4 cd/m LEDs/each optic 1 Light colour White Required components:</p>		
<p>CREE LEDs</p> <p>LED XT-E FWHM / FWTM 25.0° / 46.0° Efficiency 92 % Peak intensity 3.7 cd/m LEDs/each optic 1 Light colour White Required components:</p>		
<p>LUMILEDS</p> <p>LED LUXEON Q FWHM / FWTM 26.0° / 49.0° Efficiency 94 % Peak intensity 3.6 cd/m LEDs/each optic 1 Light colour White Required components:</p>		

OPTICAL RESULTS (MEASURED):

<p>LUMILEDS</p> <p>LED LUXEON Z ES</p> <p>FWHM / FWTM 21.0° / 42.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 5.6 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>NICHIA</p> <p>LED NVSxx19B/NVSxx19C</p> <p>FWHM / FWTM 29.0° / 52.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 3.1 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>OSRAM Opto Semiconductors</p> <p>LED OSLOM Square PC</p> <p>FWHM / FWTM 30.0° / 54.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 3.4 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>SAMSUNG</p> <p>LED LH351Z</p> <p>FWHM / FWTM 32.0° / 52.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 2.9 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

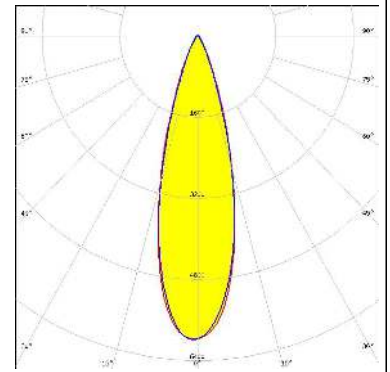
OPTICAL RESULTS (MEASURED):

<p>OSRAM OSRAM SEMICONDUCTOR</p> <p>LED Z5M1/Z5M2 FWHM / FWTM 30.0° / 52.0° Efficiency 90 % Peak intensity 3.4 cd/m LEDs/each optic 1 Light colour White Required components:</p>		
<p>TOSHIBA Leading Innovation >>></p> <p>LED TL1L4 FWHM / FWTM 25.0° / 46.0° Efficiency 85 % Peak intensity 3.5 cd/m LEDs/each optic 1 Light colour White Required components:</p>		
<p>TRIDONIC</p> <p>LED RLE 2x4 2000lm HP EXC2 OTD FWHM / FWTM 31.0° / 47.0° Efficiency 93 % Peak intensity 3.7 cd/m LEDs/each optic 1 Light colour White Required components:</p>		
<p>TRIDONIC</p> <p>LED RLE G1 49x121mm 2000lm xxx EXC OTD FWHM / FWTM 29.0° / 53.0° Efficiency 94 % Peak intensity 3 cd/m LEDs/each optic 1 Light colour White Required components:</p>		

OPTICAL RESULTS (MEASURED):

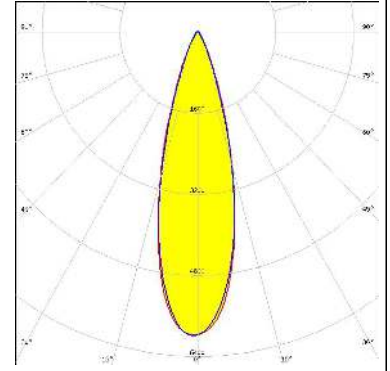
TRIDONIC

LED RLE G1 49x133mm 2000lm xxx EXC OTD
FWHM / FWTM 29.0° / 53.0°
Efficiency 94 %
Peak intensity 3 cd/lm
LEDs/each optic 1
Light colour White
Required components:



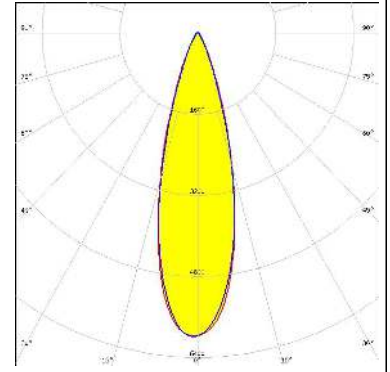
TRIDONIC

LED RLE G1 49x223mm 4000lm xxx EXC OTD
FWHM / FWTM 29.0° / 53.0°
Efficiency 94 %
Peak intensity 3 cd/lm
LEDs/each optic 1
Light colour White
Required components:



TRIDONIC

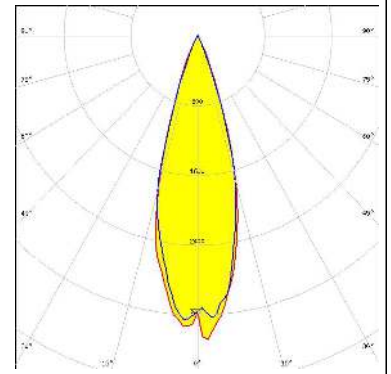
LED RLE G1 49x245mm 4000lm xxx EXC OTD
FWHM / FWTM 29.0° / 53.0°
Efficiency 94 %
Peak intensity 3 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

LED	OSLON Square CSSRM2/CSSRM3
FWHM / FWTM	32.0° / 49.0°
Efficiency	93 %
Peak intensity	4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



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](http://www.ledil.com/where_to_buy)

Shipping locations

Salo, Finland
Hong Kong, China

Distribution Partners

[www.ledil.com/
where_to_buy](http://www.ledil.com/where_to_buy)