

## VERONICA-SQ-MINI-O

~15° 50° oval beam

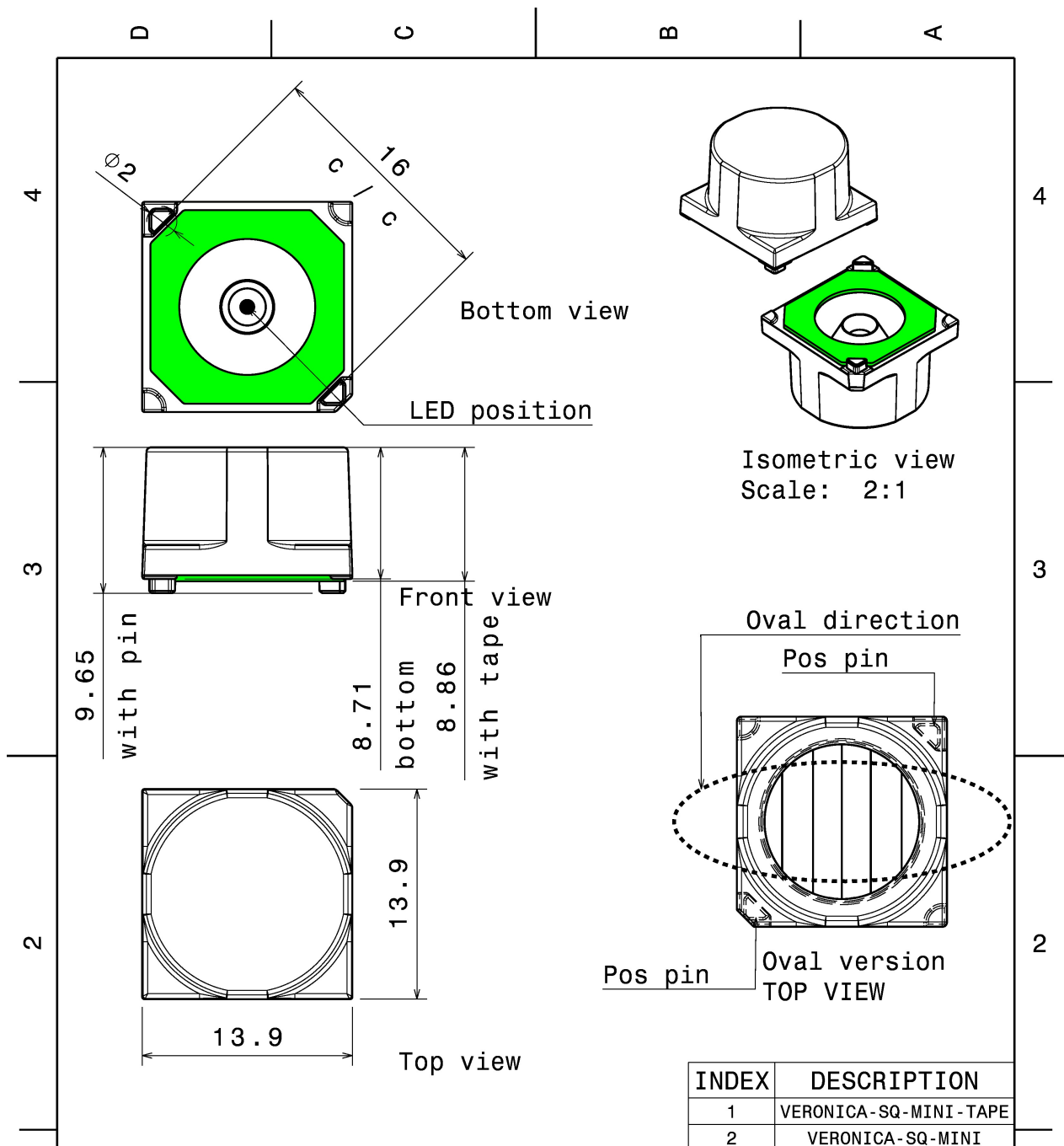
### TECHNICAL SPECIFICATIONS:

Dimensions	13.9+13.9 mm
Height	8.9 mm
Fastening	tape, pin
Colour	clear
Box size	480 x 280 x 300 mm
Box weight	8.9 kg
Quantity in Box	5544 pcs
ROHS compliant	yes ⓘ



### MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour
VERONICA-SQ-MINI-O	Lens	PMMA	clear
VERONICA-SQ-MINI-TAPE	Tape	Acrylic foam	clear



Tolerances if not otherwise shown  
 According to DIN ISO 2768-1  
 Linear measures:  
 up to 30mm class M, otherwise class C  
 According to DIN ISO 2768-2  
 Form and position: class L

**LEDiL** Ledil Oy  
 Joensuunkatu 13  
 FIN 24100 SALO  
 Finland

THIRD ANGLE PROJECTION:

DRAWING TITLE  
**VERONICA-SQ-MINI**

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

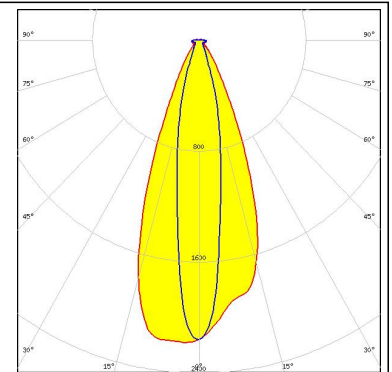
SIZE	PART NUMBER
A4	-

SCALE	3:1	WEIGHT		SHEET	1/1
-------	-----	--------	--	-------	-----

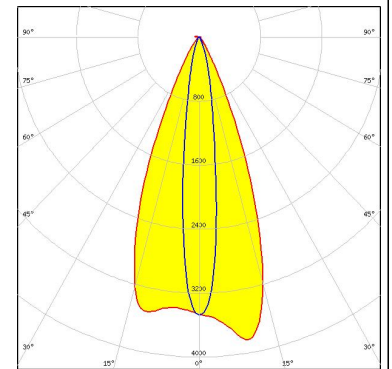
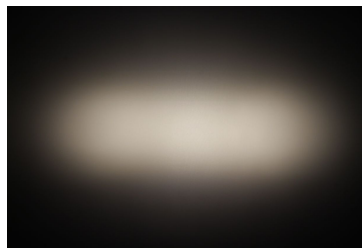
#### PHOTOMETRIC DATA (MEASURED):



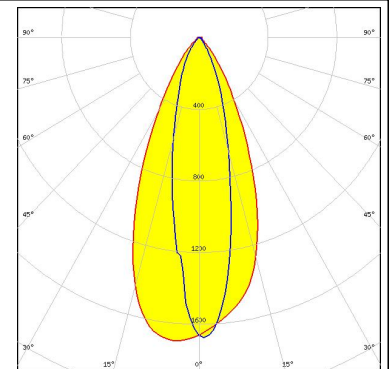
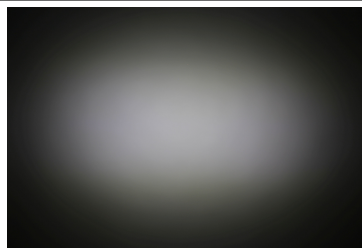
LED XD16  
 FWHM 41.0 + 18.0°  
 Efficiency 89 %  
 Peak intensity 2.200 cd/lm  
 Required components:



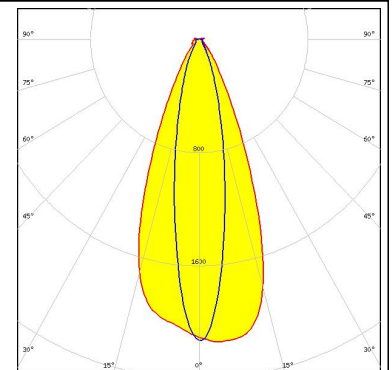
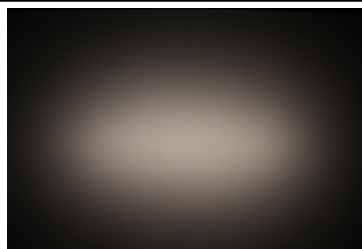
LED XP-E2  
 FWHM 42.0 + 14.0°  
 Efficiency 92 %  
 Peak intensity 3.800 cd/lm  
 Required components:



LED XP-G3  
 FWHM 41.0 + 24.0°  
 Efficiency 92 %  
 Peak intensity 1.800 cd/lm  
 Required components:



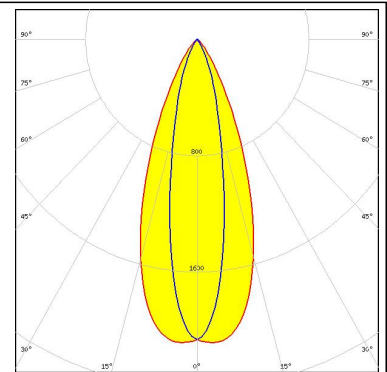
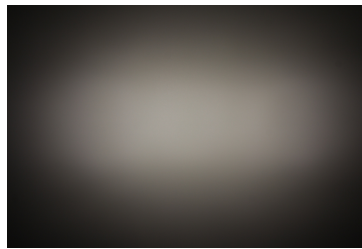
LED LUXEON Rebel  
 FWHM 42.0 + 20.0°  
 Efficiency 90 %  
 Peak intensity 2.100 cd/lm  
 Required components:



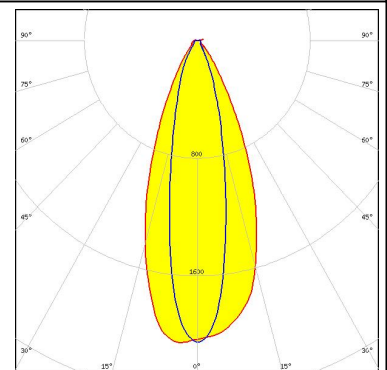
#### PHOTOMETRIC DATA (MEASURED):



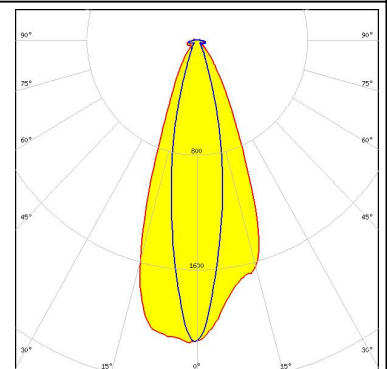
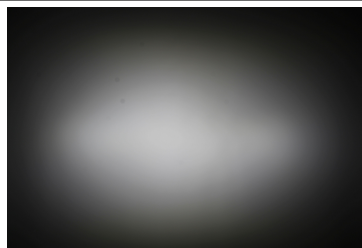
LED LUXEON Rebel ES  
 FWHM 50.0 + 23.0°  
 Efficiency 80 %  
 Peak intensity 2.100 cd/lm  
 Required components:



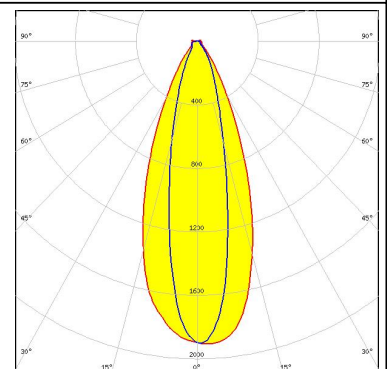
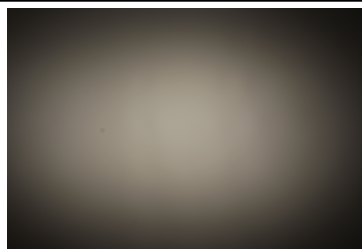
LED LUXEON TX  
 FWHM 42.0 + 22.0°  
 Efficiency 90 %  
 Peak intensity 2.060 cd/lm  
 Required components:



LED NCSxE17A  
 FWHM 40.0 + 20.0°  
 Efficiency 89 %  
 Peak intensity 2.100 cd/lm  
 Required components:



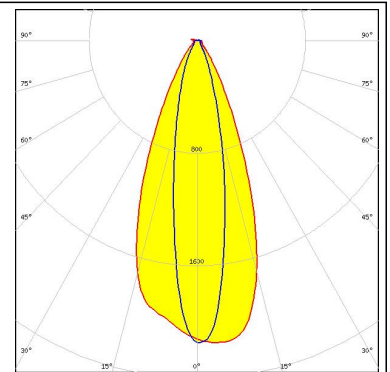
LED NVSxx19B/NVSxx19C  
 FWHM 41.0 + 23.0°  
 Efficiency 90 %  
 Peak intensity 1.900 cd/lm  
 Required components:



#### PHOTOMETRIC DATA (MEASURED):

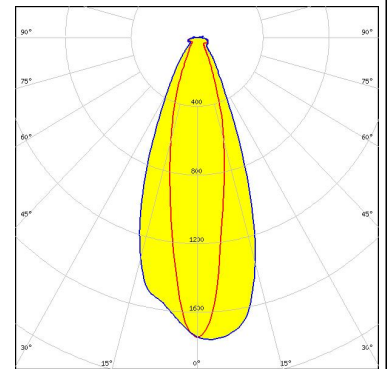
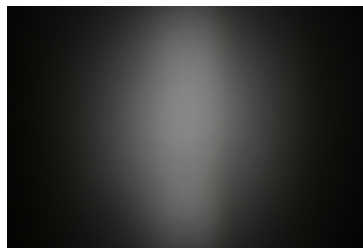
**OSRAM**  
Opto Semiconductors

LED Oslon Square EC  
FWHM 42.0 + 20.0°  
Efficiency 89 %  
Peak intensity 2.150 cd/lm  
Required components:



**SAMSUNG**

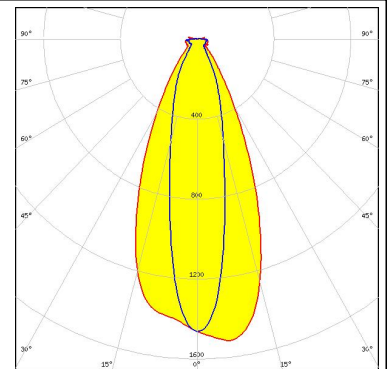
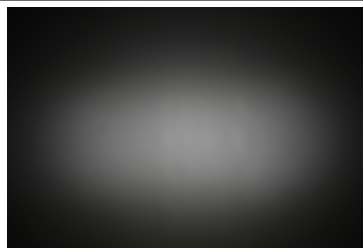
LED LH181B  
FWHM 22.0 + 41.0°  
Efficiency 91 %  
Peak intensity 1.800 cd/lm  
Required components:



**SEOL**

SEOUL SEMICONDUCTOR

LED Z8Y22P  
FWHM 46.0 + 23.0°  
Efficiency 90 %  
Peak intensity 1.500 cd/lm  
Required components:

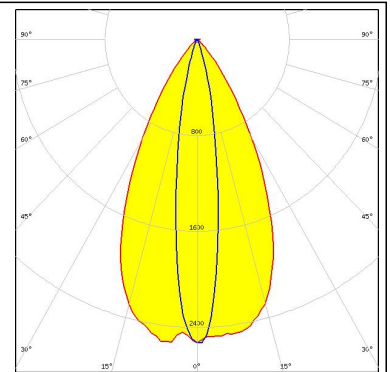




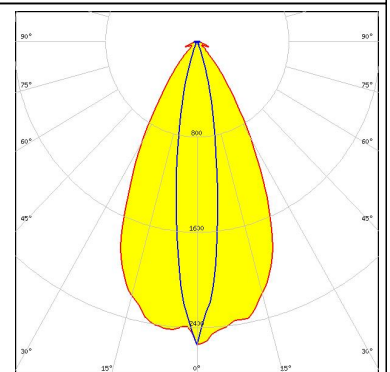
#### PHOTOMETRIC DATA (SIMULATED):



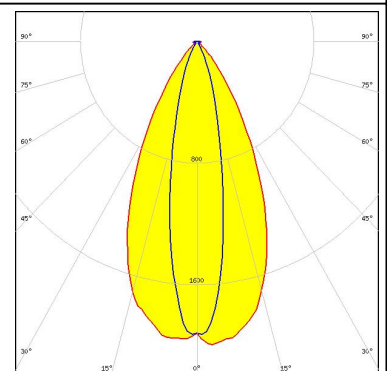
LED LUXEON C  
FWHM 53.0 + 17.0°  
Efficiency 87 %  
Peak intensity 2.600 cd/lm  
Required components:



LED LUXEON Z ES  
FWHM 53.0 + 16.0°  
Efficiency 92 %  
Peak intensity 2.600 cd/lm  
Required components:



LED Oslon Square Gen3  
FWHM 48.0 + 20.0°  
Efficiency 81 %  
Peak intensity 2.000 cd/lm  
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

#### 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)