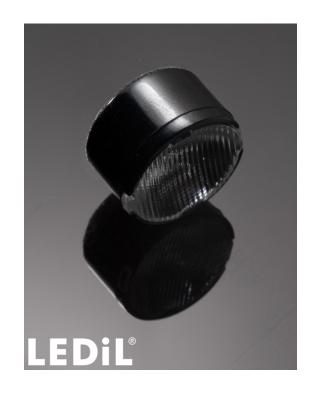


TINA-O

 ${\sim}35^{\circ}$ x 15° oval beam optimized for LUXEON Rebel. Assembly with holder, installation tape and location pins.

SPECIFICATION:

Dimensions	Ø 16.1 mm
Height	9.4 mm
Fastening	tape, pin
ROHS compliant	yes 🕕



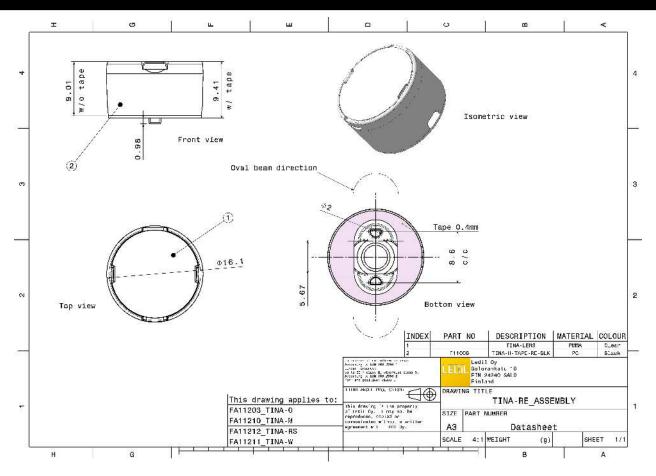
MATERIALS:

Component	Туре	Material	Colour	Finish
TINA-XP-O	Single lens	PMMA	clear	
TINA-H-TAPE-RE-BLK	Holder	PC	black	
TINA-TAPE3	Tape	Acrylic foam	black	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FA11203_TINA-O	Single lens	2016	288	144	4.1
» Box size:					





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



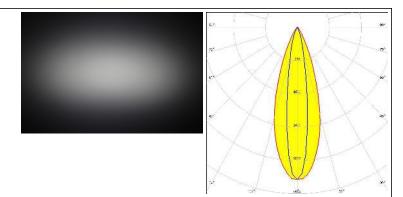
OPTICAL RESULTS (MEASURED):

CREE . LED

LED XB-H

FWHM / FWTM 35.0 + 17.0° / 61.0 + 38.0°

Efficiency 83 %
Peak intensity 3.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



MUMILEDS

LED LUXEON Rebel

FWHM / FWTM 34.0 + 18.0° / 64.0 + 42.0°

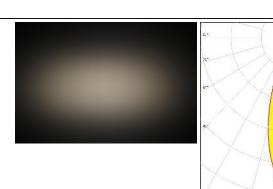
Efficiency 89 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:

MUMILEDS

LED LUXEON TX

FWHM / FWTM 36.0 + 17.0° / 61.0 + 36.0°

Efficiency 84 %
Peak intensity 3.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:

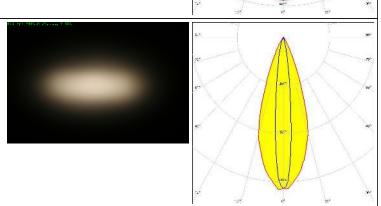


UMILEDS

LED LUXEON Z ES

FWHM / FWTM $36.0 + 13.0^{\circ} / 57.0 + 28.0^{\circ}$

Efficiency 85 %
Peak intensity 5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



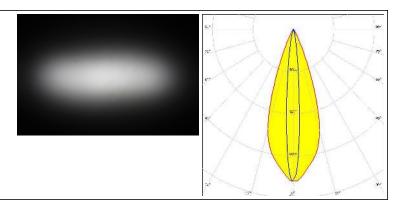


OPTICAL RESULTS (MEASURED):



LED OSLON Black Flat FWHM / FWTM 37.0 + 10.0° / 55.0 + 23.0°

Efficiency 85 % Peak intensity 5.8 cd/lm LEDs/each optic White Light colour Required components:





OPTICAL RESULTS (SIMULATED):

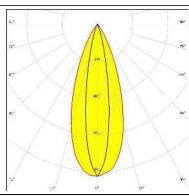
CREE . LED

LED XB-D

FWHM / FWTM $39.0 + 18.0^{\circ} / 67.0 + 36.0^{\circ}$

Efficiency 87 % Peak intensity 3.3 cd/lm LEDs/each optic Light colour White

Required components:



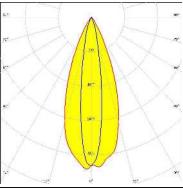
MUMILEDS

LED LUXEON H50-2

FWHM / FWTM 16.0 + 40.0° / 36.0 + 64.0°

Efficiency 89 % Peak intensity 3.5 cd/lm LEDs/each optic 1 White Light colour

Required components:



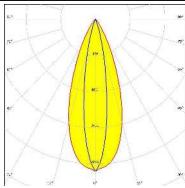
LUMILEDS

LUXEON HL2Z LED

FWHM / FWTM $40.0 + 18.0^{\circ} / 68.0 + 36.0^{\circ}$

Efficiency 89 % Peak intensity 3.4 cd/lm LEDs/each optic 1 Light colour White

Required components:



MUMILEDS

LED LUXEON T

FWHM / FWTM 40.0 + 16.0° / 65.0 + 36.0°

Efficiency 89 % Peak intensity 3.6 cd/lm LEDs/each optic White Light colour

Required components:





OPTICAL RESULTS (SIMULATED):

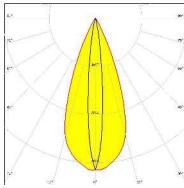


LED NCSxE17A

 $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ $42.0 + 12.0^{\circ} / 60.0 + 24.0^{\circ}$

Efficiency 90 % Peak intensity 5.1 cd/lm LEDs/each optic Light colour White

Required components:



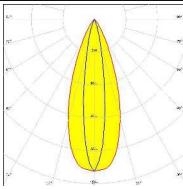
OSRAM Opto Semiconductors

LED OSLON Square CSSRM2/CSSRM3

FWHM / FWTM 38.0 + 16.0° / 66.0 + 35.0°

Efficiency 89 % Peak intensity 3.7 cd/lm LEDs/each optic 1 Light colour White

Required components:





PRODUCT DATASHEET FA11203 TINA-O

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

Shipping locations

Salo, Finland Hong Kong, China

Distribution Partners

www.ledil.com/ where_to_buy