

TINA3-00

~60° + 40° oval beam optimized for CREE XP-E. Assembly with holder, installation tape and location pins.

SPECIFICATION:

Dimensions Ø 16.1 mm
Height 6.9 mm
Fastening tape, pin
ROHS compliant yes ①



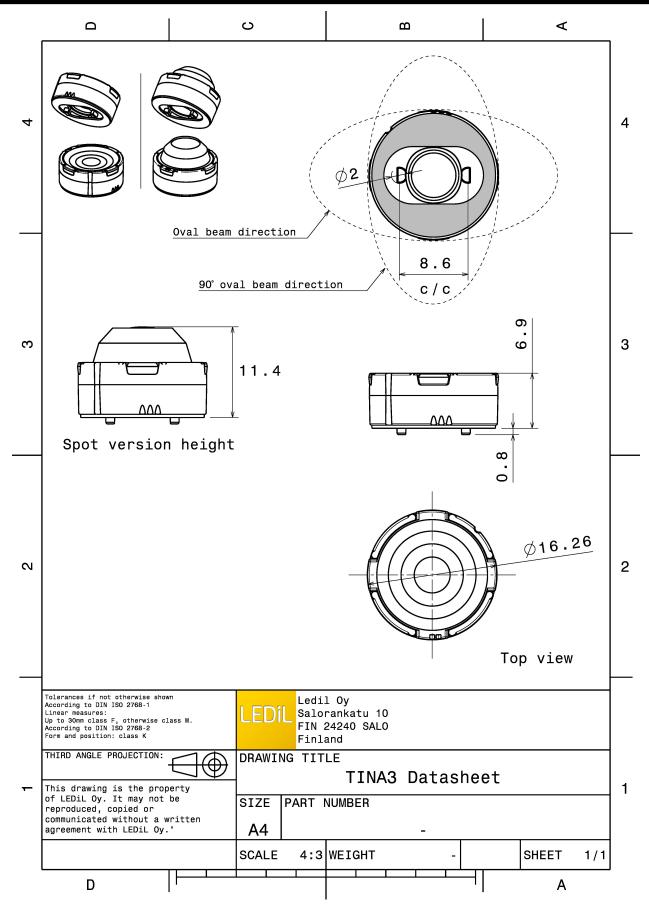
MATERIALS:

Component	Туре	Material	Colour	Finish
TINA3-OO	Single lens	PMMA	clear	
TINA3-HLD-PIN-TAPE-XP	Holder	PC	white	
TINA-TAPE3	Tape	Acrylic foam	black	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FA11870_TINA3-OO	Single lens	2016	288	288	3.1
» Box size: 470 x 240 x 105 mm					





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



OPTICAL RESULTS (MEASURED):

CREE &

LED XB-D

 $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ $54.0 + 42.0^{\circ} / 82.0 + 72.0^{\circ}$

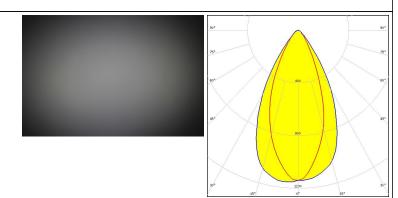
Efficiency 91 % Peak intensity 1 cd/lm LEDs/each optic Light colour White Required components:

CREE \$

LED XB-H

FWHM / FWTM 59.0 + 43.0° / 88.0 + 77.0°

Efficiency 88 % Peak intensity 1.1 cd/lm LEDs/each optic 1 White Light colour Required components:



CREE +

LED XP-E

 $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ $52.0 + 35.0^{\circ} / 76.0 + 54.0^{\circ}$

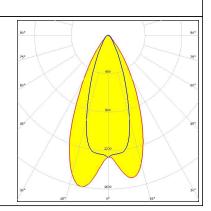
Efficiency 93 % Peak intensity 1.7 cd/lm LEDs/each optic Light colour White Required components:

CREE 🕏

XP-G

FWHM / FWTM 51.0 + 39.0° / 81.0 + 65.0°

Efficiency 93 % Peak intensity 1.6 cd/lm LEDs/each optic White Light colour Required components:





OPTICAL RESULTS (MEASURED):

UMILEDS

LED LUXEON A

FWHM / FWTM 46.0 + 60.0° / 72.0 + 82.0°

Efficiency %
LEDs/each optic 1
Light colour White
Required components:

MILEDS

LED LUXEON Rebel

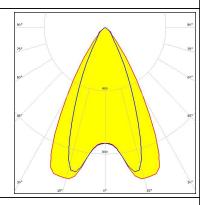
FWHM / FWTM $58.0 + 38.0^{\circ} / 76.0 + 72.0^{\circ}$

Efficiency 83 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:

MATERIAL PROPERTY OF THE PROP

LED LUXEON Rebel ES FWHM / FWTM 60.0 + 46.0° / 82.0 + 72.0°

Efficiency 92 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



WNICHIA

LED NVSxx19A

FWHM / FWTM 62.0 + 48.0° / 88.0 + 84.0°

Efficiency 93 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OPTICAL RESULTS (MEASURED):

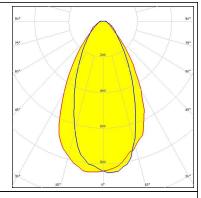
OSRAM

LED OSLON Square EC

 $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ $62.0 + 50.0^{\circ} / 108.0 + 102.0^{\circ}$

Efficiency 87 % Peak intensity 0.8 cd/lm LEDs/each optic Light colour White

Required components:



OSRAM

LED OSLON SSL 150 FWHM / FWTM 53.0 + 36.0° / 76.0 + 64.0°

Efficiency 90 % Peak intensity 1.5 cd/lm LEDs/each optic 1 White Light colour Required components:

OSRAM Opto Semiconductors

LED OSLON SSL 80

 $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ $36.0 + 52.0^{\circ} / 62.0 + 74.0^{\circ}$

Efficiency 88 % Peak intensity 1.4 cd/lm LEDs/each optic Light colour White Required components:

SetPlotAreaWorld(): X range error - min >= max



OPTICAL RESULTS (SIMULATED):

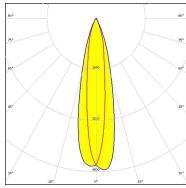


LED LUXEON 2835 Line

FWHM / FWTM $14.0 + 26.0^{\circ} / 42.0 + 49.0^{\circ}$

Efficiency 94 % Peak intensity 4.8 cd/lm LEDs/each optic Light colour White

Required components:

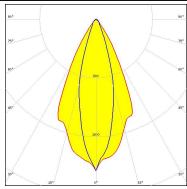


OSRAM

LED OSCONIQ P 3030 FWHM / FWTM 52.0 + 27.0° / 74.0 + 52.0°

Efficiency 94 % Peak intensity 2.1 cd/lm LEDs/each optic 1 White Light colour

Required components:

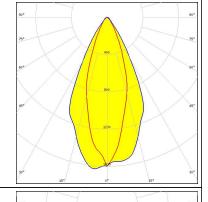


OSRAM Opto Semiconductor

LED OSLON Square CSSRM2/CSSRM3

FWHM / FWTM $33.0 + 53.0^{\circ} / 64.0 + 78.0^{\circ}$

Efficiency 94 % Peak intensity 1.7 cd/lm LEDs/each optic 1 Light colour White Required components:



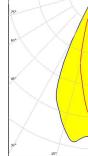
OSRAM

LED SYNIOS S2222

FWHM / FWTM 29.0 + 54.0° / 52.0 + 72.0°

Efficiency 95 % Peak intensity 1.9 cd/lm LEDs/each optic White Light colour

Required components:





OPTICAL RESULTS (SIMULATED):

SAMSUNG LH351B $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ Asymmetric Efficiency 93 % Peak intensity 1.2 cd/lm LEDs/each optic Light colour White Required components: SEOUL SEOUL SEMICONDUCTOR LED Z8Y22P FWHM / FWTM 60.0 + 42.0° Efficiency 94 % Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour White Required components:



PRODUCT DATASHEET FA11870_TINA3-OO

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

Published: 16/11/2018

8/8

www.ledil.com/ where_to_buy