

TINA2-M

~30° medium beam. Assembly with holder, installation tape and location pins.

SPECIFICATION:

Dimensions	Ø 16.0
Height	9.5 mm
Fastening	tape, pin
ROHS compliant	yes 🛈



MATERIALS:

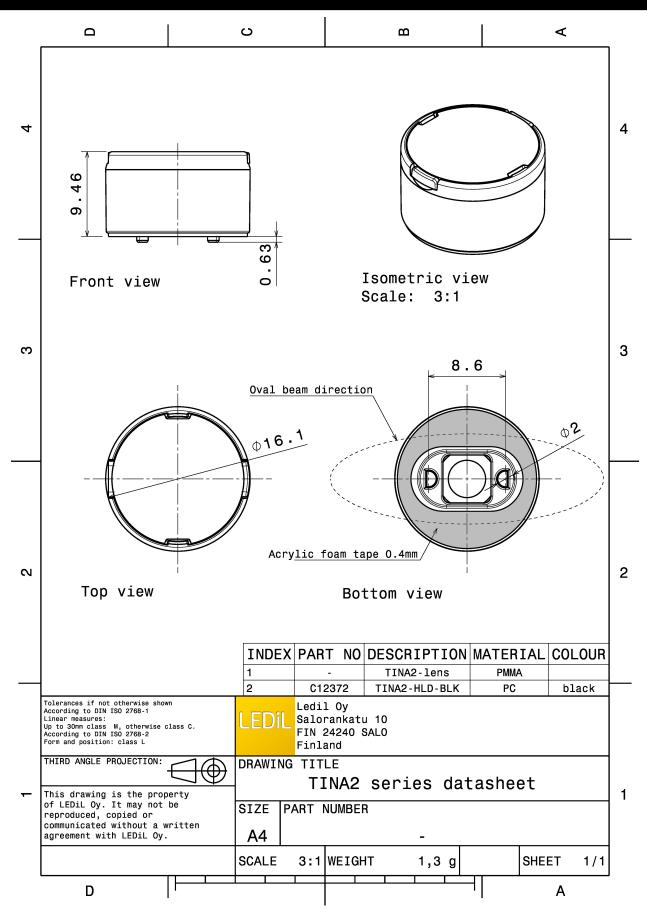
Component	Type	Material	Colour	Finish	Length (mm)
TINA2-XP-M	Single lens	PMMA	clear		
TINA2-HLD-BLK	Holder	PC	black		
TINA-TAPE3	Tape	Acrylic foam	black		

ORDERING INFORMATION:

» Box size: 451 x 241 x 298 mm

Component	Qty in box	MOQ	MPQ	Box weight (kg)
CA12377_TINA2-M	4140	230	230	8.3



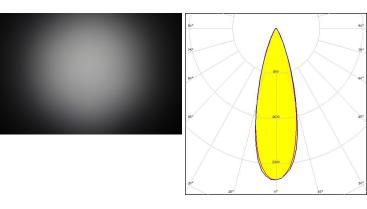


See also our general installation guide: www.ledil.com/installation_guide



CREE \$

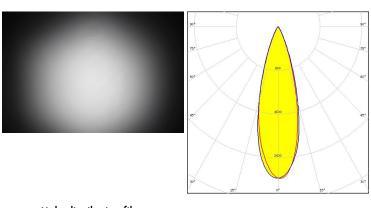
LED XB-H
FWHM / FWTM 31.0° / 54.0°
Efficiency 85 %
Peak intensity 2.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

CREE \$

LED XD16
FWHM / FWTM 30.0° / 52.0°
Efficiency 83 %
Peak intensity 2.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

CREE -

LED XQ-E HD
FWHM / FWTM 29.0° / 51.0°
Efficiency 84 %
Peak intensity 3.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



MUMILEDS

 LED
 LUXEON CZ

 FWHM / FWTM
 28.0° / 47.0°

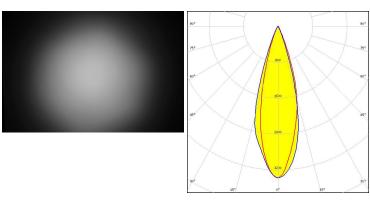
 Efficiency
 89 %

 Peak intensity
 3.4 cd/lm

 LEDs/each optic
 1

 Light colour/type
 White

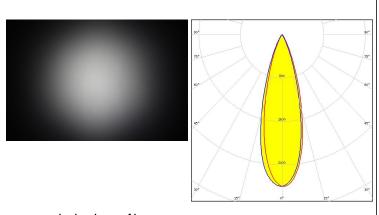
 Required components:



Light distribution files

UMILEDS

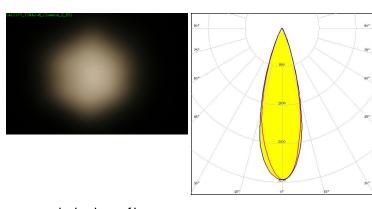
LED LUXEON TX
FWHM / FWTM 30.0° / 53.0°
Efficiency 86 %
Peak intensity 2.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

MILEDS

LED LUXEON Z ES
FWHM / FWTM 31.0° / 50.0°
Efficiency 88 %
Peak intensity 3.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



WNICHIA

LED NVSxx19B/NVSxx19C

FWHM / FWTM 29.0° / 55.0°

Efficiency 85 %

Peak intensity 2.7 cd/lm

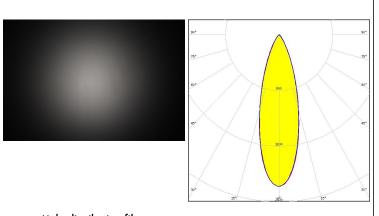
LEDs/each optic 1

Light colour/type White

Required components:



LED NWSx229A
FWHM / FWTM 26.0° / 52.0°
Efficiency 86 %
Peak intensity 2.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

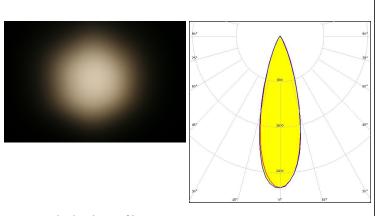


Light distribution files

OSRAM Onto Semiconductors

LED OSLON Square EC FWHM / FWTM 30.0° / 54.0°

Efficiency 85 %
Peak intensity 2.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



OSRAM Opto Semiconductors

LED OSLON Square PC
FWHM / FWTM 29.0° / 53.0°
Efficiency 86 %
Peak intensity 2.4 cd/lm

LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files

OSRAM Opto Semiconductors

LED SFH 4170S FWHM / FWTM 28.0° / 50.0°

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

Light distribution files

OSRAM Onto Semiconductors

LED SFH 4180S FWHM / FWTM 29.0° / 49.0°

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

Light distribution files



OSRAM Opto Semiconductors

LED SFH 4715S FWHM / FWTM 28.0° / 56.0°

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

Light distribution files

OSRAM Opto Semiconductors

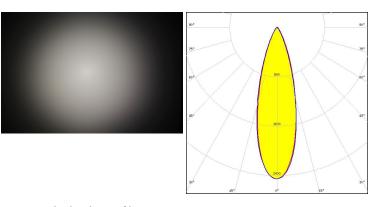
LED SFH 4725S FWHM / FWTM 27.0° / 54.0°

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

Light distribution files



LED Z5M3
FWHM / FWTM 30.0° / 57.0°
Efficiency 83 %
Peak intensity 2.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



CREE +

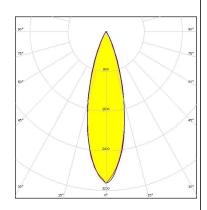
LED XB-D
FWHM / FWTM 30.0° / 55.0°
Efficiency 86 %
Peak intensity 2.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files

CREE \$

LED XE-G
FWHM / FWTM 29.0° / 53.0°
Efficiency 89 %
Peak intensity 3.1 cd/lm
LEDs/each optic 1
Light colour/type White

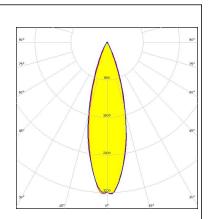
Required components:



Light distribution files

CREE -

LED XQ-E HI
FWHM / FWTM 29.0° / 51.0°
Efficiency 90 %
Peak intensity 3.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files





 LED
 LUXEON 2835 Line

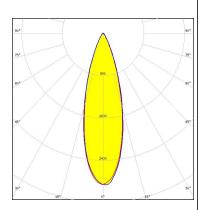
 FWHM / FWTM
 30.0° / 55.0°

 Efficiency
 96 %

 Peak intensity
 2.9 cd/lm

LEDs/each optic 1
Light colour/type White

Required components:



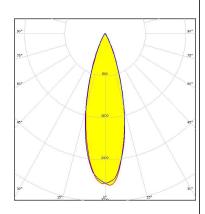
Light distribution files



LED LUXEON C
FWHM / FWTM 30.0° / 52.0°
Efficiency 93 %
Peak intensity 2.9 cd/lm
LEDs/each optic 1

Light colour/type White

Required components:



Light distribution files



LED LUXEON IR Compact

FWHM / FWTM 29.0° / 51.0°
Efficiency 83 %
LEDs/each optic 1
Light colour/type IR
Required components:

Light distribution files

9/17





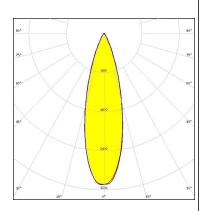
Required components:

LED LUXEON Rubix
FWHM / FWTM 29.0° / 52.0°

Efficiency 91 %
Peak intensity 3.1 cd/lm

LEDs/each optic 1

Light colour/type Red

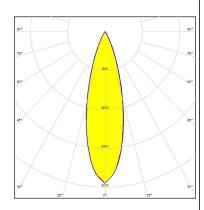


Light distribution files



LED LUXEON Rubix
FWHM / FWTM 28.0° / 53.0°
Efficiency 91 %
Peak intensity 3.1 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:



Light distribution files



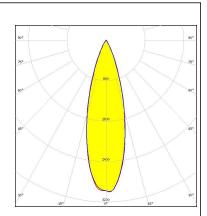
LED LUXEON Rubix
FWHM / FWTM 30.0° / 53.0°

Efficiency 91 %
Peak intensity 3 cd/lm

LEDs/each optic 1

Light colour/type Blue

Required components:



Light distribution files

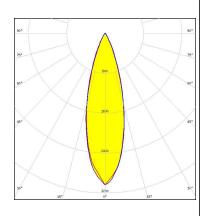


UMILEDS

LED LUXEON SunPlus 20 Line (150 deg)

FWHM / FWTM 30.0° / 53.0°
Efficiency 89 %
Peak intensity 3 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:

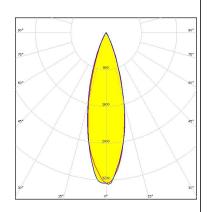


Light distribution files



LED LUXEON Z ES
FWHM / FWTM 29.0° / 52.0°
Efficiency 91 %
Peak intensity 3.3 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:

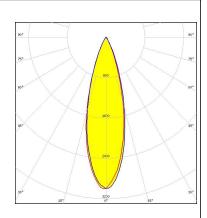


Light distribution files



LED NFSx757G
FWHM / FWTM 29.0° / 53.0°
Efficiency 90 %
Peak intensity 3 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:



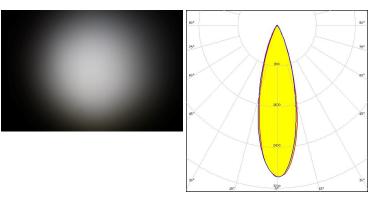
Light distribution files



OSRAM Opto Semiconductors

LED Duris S5 (2 chip)
FWHM / FWTM 29.0° / 54.0°
Efficiency 92 %
Peak intensity 3 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:



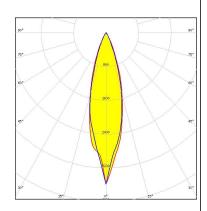
Light distribution files

OSRAM Opto Semiconductors

LED OSCONIQ P 3030 FWHM / FWTM 26.0° / 50.0 + 52.0°

Efficiency 90 %
Peak intensity 3.6 cd/lm
LEDs/each optic 1
Light colour/type Blue

Required components:

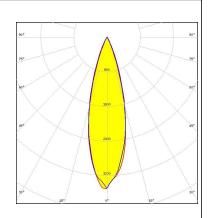


Light distribution files

OSRAM

LED OSLON Black Flat (LUW HWQP)

FWHM / FWTM 28.0° / 49.0°
Efficiency 91 %
Peak intensity 3.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

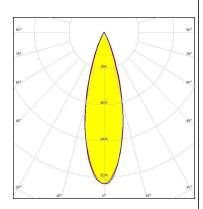


OSRAM Opto Seminant

LED OSLON Pure 1414 FWHM / FWTM 29.0 + 30.0° / 48.0 + 52.0°

Efficiency 92 %
Peak intensity 3.4 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:



Light distribution files

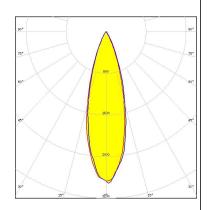
OSRAM Opto Semiconductore

Opto Semiconducto

LED OSLON Square CSSRM2/CSSRM3

FWHM / FWTM 29.0° / 54.0°
Efficiency 90 %
Peak intensity 2.9 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:

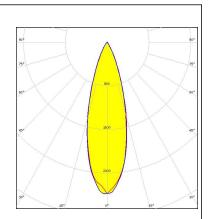


Light distribution files

OSRAM Onto Semiconductors

LED OSLON Square CSSRM2/CSSRM3

FWHM / FWTM 30.0° / 56.0°
Efficiency 90 %
Peak intensity 2.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



OSRAM Opto Semiconductors

LED OSLON Square Flat
FWHM / FWTM 29.0° / 52.0°

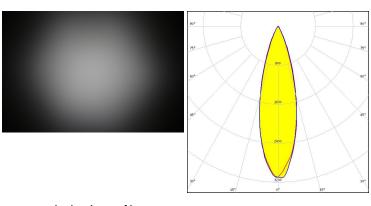
Efficiency 89 %

Peak intensity 3.1 cd/lm

LEDs/each optic 1

Light colour/type White

Required components:



Light distribution files

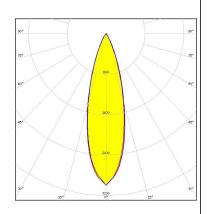
OSRAM Opto Semiconductore

LED OSLON SSL 150
FWHM / FWTM 29.0° / 54.0°
Efficiency 90 %
Peak intensity 3 cd/lm
LEDs/each optic 1

White

Required components:

Light colour/type



Light distribution files

OSRAM

 LED
 OSLON SSL 80

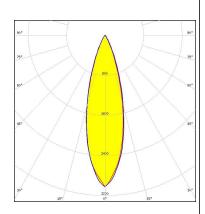
 FWHM / FWTM
 29.0° / 53.0°

 Efficiency
 89 %

 Posk intensity
 3 od/m

Peak intensity 3 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:

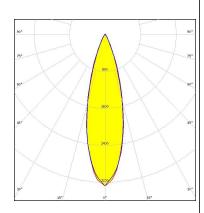


Light distribution files



OSRAM Opto Semiconductors

LED SFH 4715S FWHM / FWTM 28.0° / 51.0° Efficiency 90 % LEDs/each optic 1 Light colour/type ΙR Required components:



Light distribution files

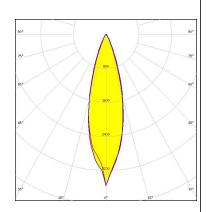
OSRAM Opto Semiconductors

SFH 4770S LFD FWHM / FWTM 27.0° / 51.0° Efficiency 85 % LEDs/each optic 1 Light colour/type IR Required components:

Light distribution files

OSRAM Opto Semiconductors

Synios P2720 1 mm FWHM / FWTM 27.0° / 50.0° Efficiency 91 % Peak intensity 3.6 cd/lm LEDs/each optic Light colour/type White Required components:



Light distribution files

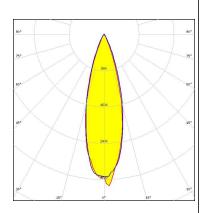


OSRAM Opto Semiconductors

LED Synios P2720 1/2 mm

FWHM / FWTM 29.0° / 51.0° Efficiency 93 % Peak intensity 3.4 cd/lm LEDs/each optic 1 Light colour/type White

Required components:



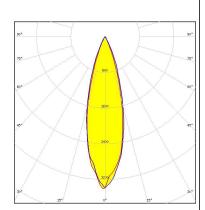
Light distribution files

OSRAM Opto Semiconductore

Synios P2720 1/4 mm LFD

28.0° / 50.0° FWHM / FWTM Efficiency 91 % Peak intensity 3.1 cd/lm LEDs/each optic Light colour/type White

Required components:

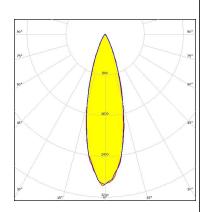


Light distribution files

SAMSUNG

LH181B FWHM / FWTM 29.0° / 53.5° Efficiency 90 % Peak intensity 3 cd/lm LEDs/each optic Light colour/type White

Required components:



Light distribution files



PRODUCT DATASHEET CA12377_TINA2-M

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 7 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

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