

#### TINA2-M

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

#### **SPECIFICATION:**

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



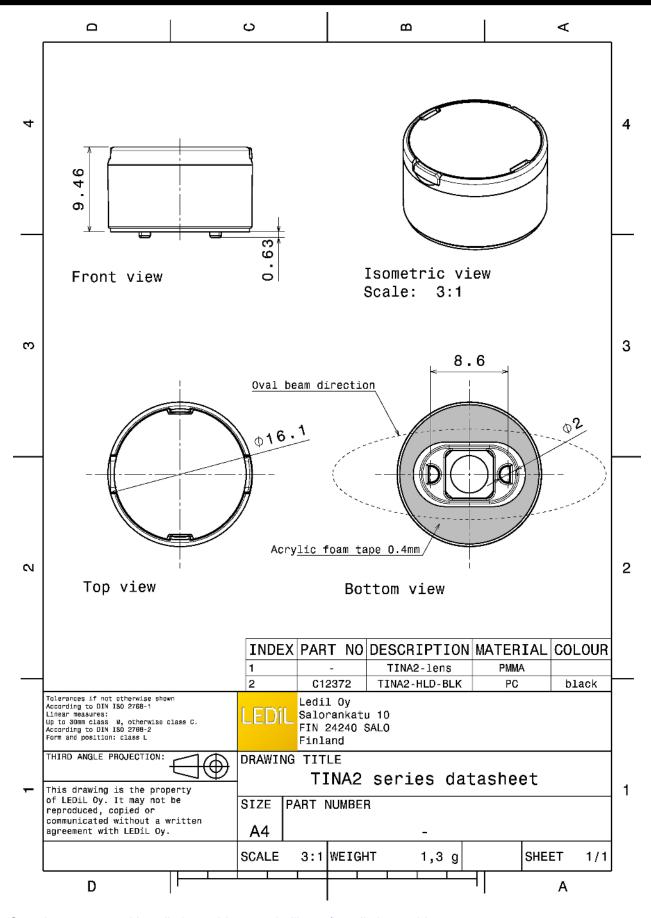
#### **MATERIALS:**

Component	Туре	Material	Colour	Finish
TINA2-XP-M	Single lens	PMMA	clear	
TINA2-HLD-BLK	Holder	PC	black	
TINA-TAPE3	Tape	Acrylic foam	black	

#### **ORDERING INFORMATION:**

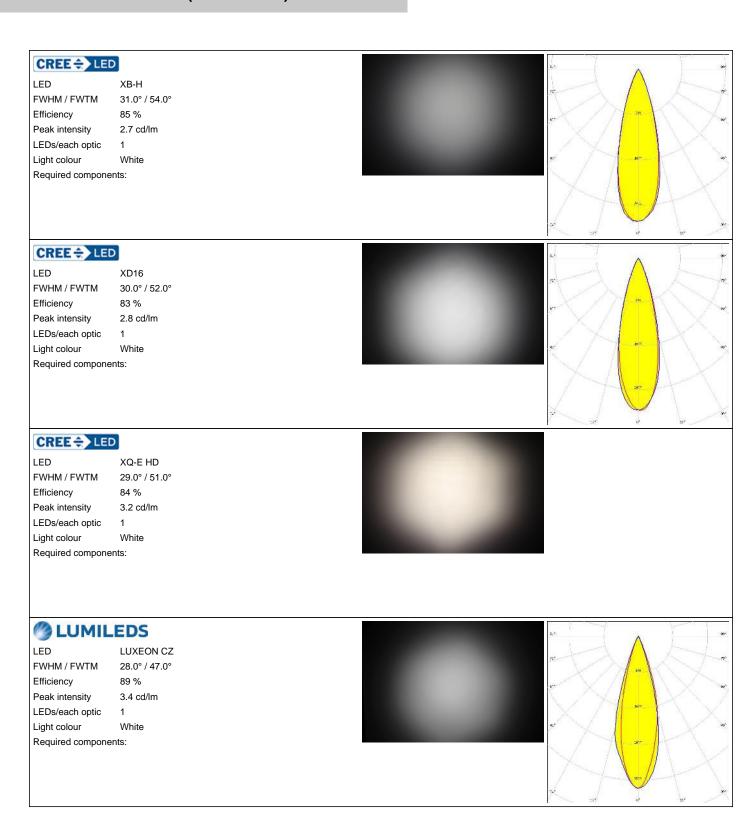
Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA12377_TINA2-M	Single lens	4140	230	230	8.3
» Box size: 451 x 241 x 298 mm					

# LEDIL®



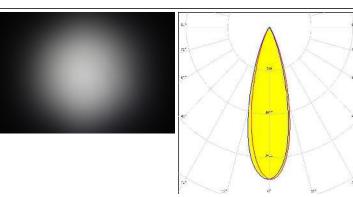
See also our general installation guide: www.ledil.com/installation\_guide



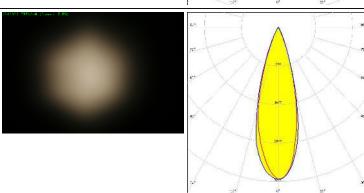




#### **LUMILEDS** LED LUXEON TX $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 30.0° / 53.0° Efficiency 86 % Peak intensity 2.8 cd/lm LEDs/each optic Light colour White Required components: **LUMILEDS**



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



## **WNICHIA**

LED NVSxx19B/NVSxx19C

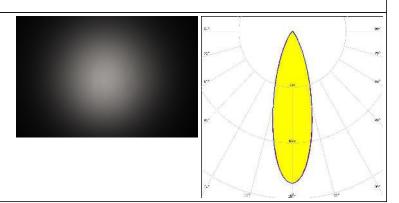
FWHM / FWTM 29.0° / 55.0° Efficiency 85 % Peak intensity 2.7 cd/lm LEDs/each optic Light colour White



Required components:

Required components:

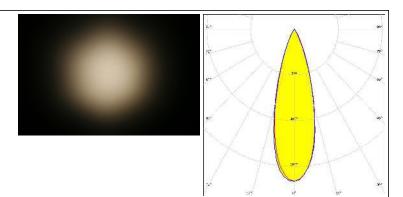
NWSx229A FWHM / FWTM 26.0° / 52.0° Efficiency 86 % Peak intensity 2.2 cd/lm LEDs/each optic White Light colour





# OSRAM Opto Semiconductors

LED OSLON Square EC  $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 30.0° / 54.0° Efficiency 85 % Peak intensity 2.2 cd/lm LEDs/each optic Light colour White Required components:



#### **OSRAM**

LED OSLON Square PC FWHM / FWTM 29.0° / 53.0° Efficiency 86 % Peak intensity 2.4 cd/lm LEDs/each optic 1 White Light colour Required components:

# OSRAM Opto Semiconductors

LED SFH 4170S  $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 28.0° / 50.0°

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

#### OSRAM

SFH 4180S FWHM / FWTM 29.0° / 49.0°

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



## **OSRAM**

LED SFH 4715S  $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 28.0° / 56.0°

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

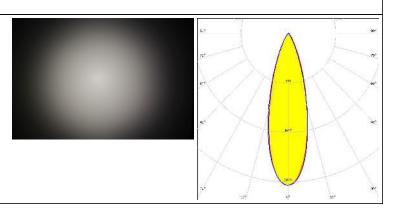
# OSRAM Opto Semiconductors

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

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



LED Z5M3  $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 30.0° / 57.0° Efficiency 83 % Peak intensity 2.5 cd/lm LEDs/each optic Light colour White Required components:



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LED XB-D

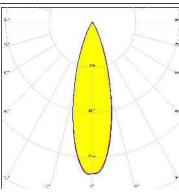
FWHM / FWTM 30.0° / 55.0°

Efficiency 86 %

Peak intensity 2.7 cd/lm LEDs/each optic

Light colour White

Required components:



#### CREE - LED

LED

XQ-E HI

FWHM / FWTM 29.0° / 51.0°

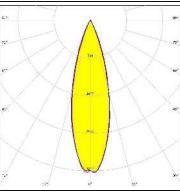
Efficiency 90 %

Peak intensity 3.2 cd/lm

LEDs/each optic 1

White Light colour

Required components:



#### LUMILEDS

LED

LUXEON 2835 Line

FWHM / FWTM 30.0° / 55.0°

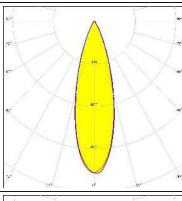
Efficiency 96 %

Peak intensity 2.9 cd/lm

LEDs/each optic

Light colour White

Required components:



## **MUMILEDS**

FWHM / FWTM

LED

LUXEON C

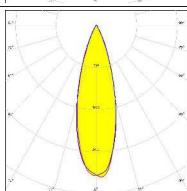
30.0° / 52.0°

Efficiency 93 % Peak intensity 2.9 cd/lm

LEDs/each optic

White Light colour

Required components:







LED LUXEON IR Compact

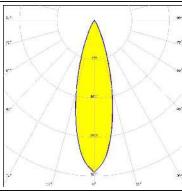
FWHM / FWTM 29.0° / 51.0°
Efficiency 83 %
LEDs/each optic 1
Light colour IR

## **MUMILEDS**

Required components:

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

Required components:



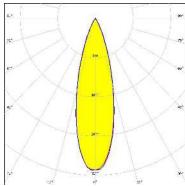
## **BLUMILEDS**

LED LUXEON Rubix
FWHM / FWTM 29.0° / 52.0°

Efficiency 91 %
Peak intensity 3.1 cd/lm

LEDs/each optic 1

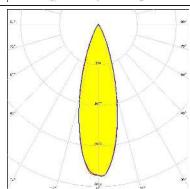
Light colour Red



## **UMILEDS**

Required components:

LED LUXEON Rubix
FWHM / FWTM 30.0° / 53.0°
Efficiency 91 %
Peak intensity 3 cd/lm
LEDs/each optic 1
Light colour Blue
Required components:

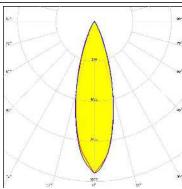






LED LUXEON SunPlus 20 Line (150 deg)

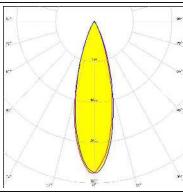
FWHM / FWTM 30.0° / 53.0° Efficiency 89 % Peak intensity 3 cd/lm LEDs/each optic Light colour White Required components:



#### WNICHIA

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

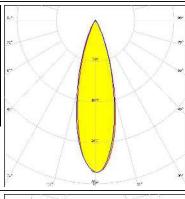
Required components:



# OSRAM Opto Semiconductors

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



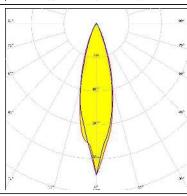


## OSRAM Opto Semiconductors

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

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

Required components:



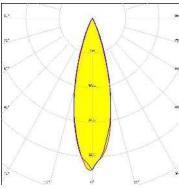


# OSRAM Opto Semiconductors

LED OSLON Black Flat FWHM / FWTM 28.0° / 49.0° Efficiency 91 % Peak intensity 3.5 cd/lm

LEDs/each optic Light colour White

Required components:

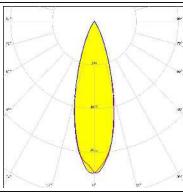


# OSRAM Opto Semiconductor

OSLON Square CSSRM2/CSSRM3 LED

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

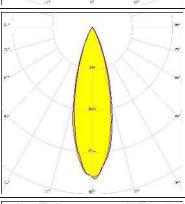
Required components:



# OSRAM Opto Semiconductors

LED OSLON Square CSSRM2/CSSRM3

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

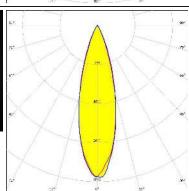


## OSRAM Opto Semiconductors

LED OSLON Square Flat

FWHM / FWTM 29.0° / 52.0° Efficiency 89 % Peak intensity 3.1 cd/lm LEDs/each optic White Light colour Required components:





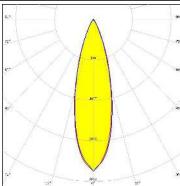


#### OSRAM Opto Semiconductors

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

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

Required components:

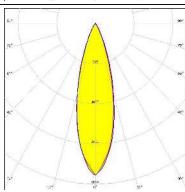


#### OSRAM Opto Semiconductor

LED OSLON SSL 80
FWHM / FWTM 29.0° / 53.0°
Efficiency 89 %
Peak intensity 3 cd/lm
LEDs/each optic 1

LEDs/each optic 1
Light colour White

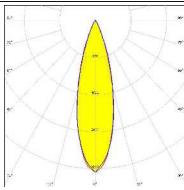
Light colour White Required components:



#### OSRAM Opto Semiconductors

LED SFH 4715S FWHM / FWTM 28.0° / 51.0°

Efficiency 90 %
LEDs/each optic 1
Light colour IR
Required components:



#### OSRAM Opto Semiconductors

LED SFH 4770S FWHM / FWTM 27.0° / 51.0° Efficiency 85 %

LEDs/each optic 1
Light colour IR
Required components:

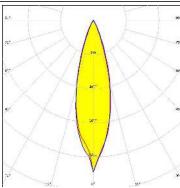


# OSRAM Opto Semiconductors

LED Synios P2720 1 mm

FWHM / FWTM 27.0° / 50.0° Efficiency 91 % Peak intensity 3.6 cd/lm LEDs/each optic Light colour White

Required components:

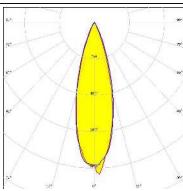


# OSRAM Opto Semiconductor

LED Synios P2720 1/2 mm

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

Required components:

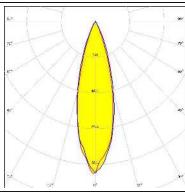


# OSRAM Opto Semiconductors

LED Synios P2720 1/4 mm

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

Required components:

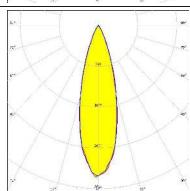


# SAMSUNG

LH181B

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

Required components:





# 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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