

## 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 🕕



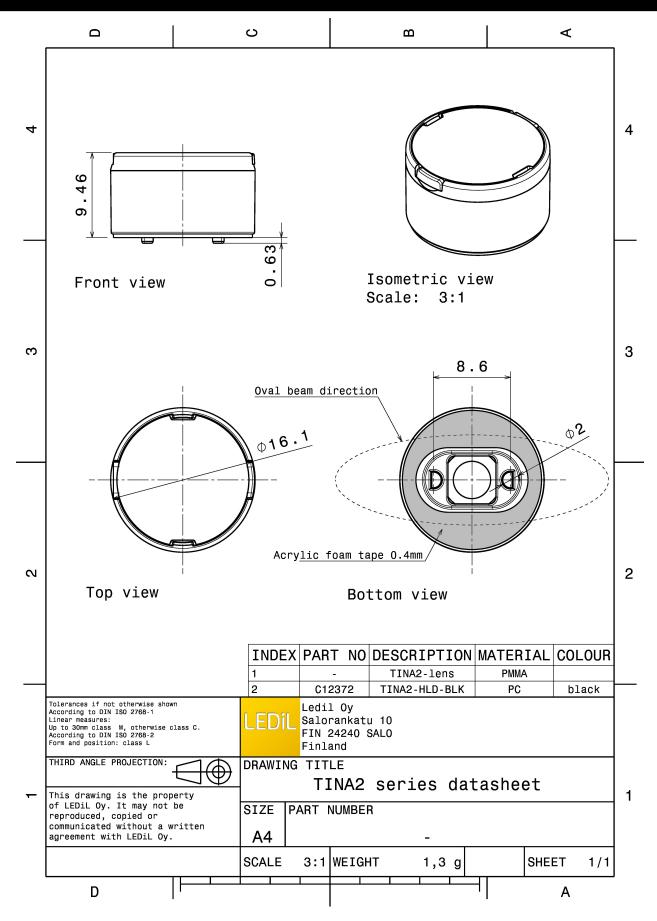
#### **MATERIALS:**

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:**

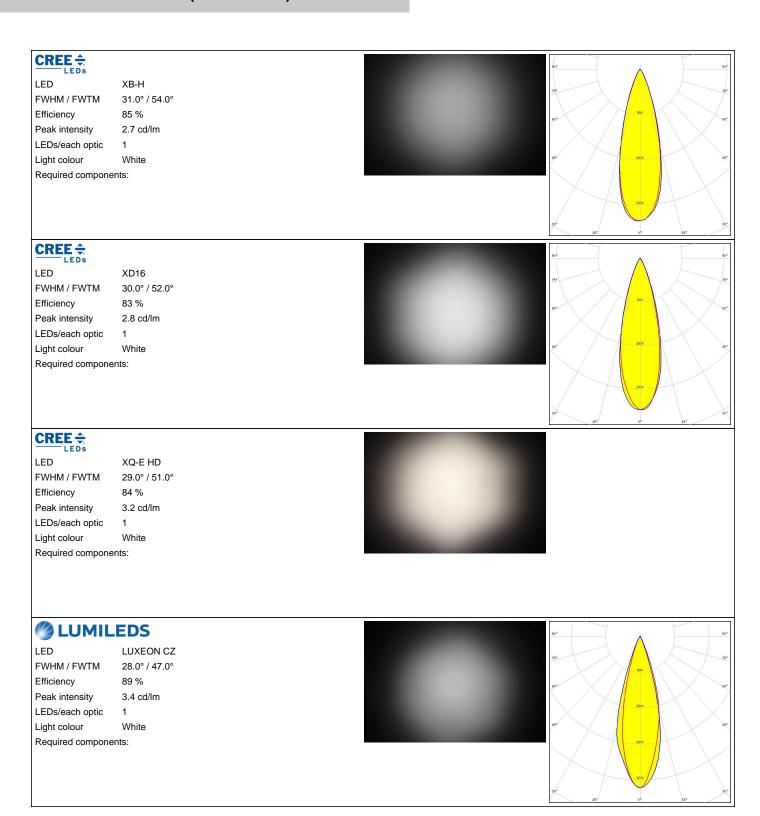
Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA12377_TINA2-M	Single lens	4140	230	230	8.3
» Box size: 451 x 241 x 298 mm					





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



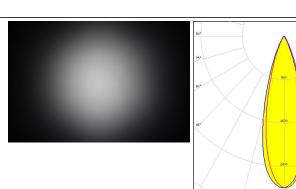




#### **LUMILEDS** LED LUXEON TX

 $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 30.0° / 53.0° Efficiency 86 % Peak intensity 2.8 cd/lm LEDs/each optic

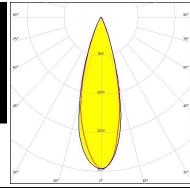
Light colour White Required components:



## 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





## **WNICHIA**

Required components:

LED NVSxx19B/NVSxx19C

 $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 29.0° / 55.0° Efficiency 85 % Peak intensity 2.7 cd/lm White

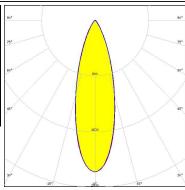
LEDs/each optic Light colour Required components:

## **WNICHIA**

Required components:

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



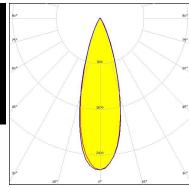




### **OSRAM**

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**

OSLON Square PC LED 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 LED FWHM / FWTM 29.0° / 49.0°

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



## **OSRAM**

LED

SFH 4715S FWHM / 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°

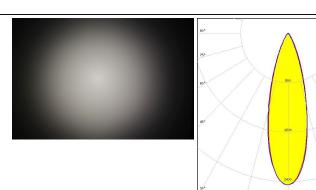
Efficiency % LEDs/each optic 1 IR Light colour Required components:



SEOUL SEMICONDUCTOR

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:





# CREE &

LED XB-D

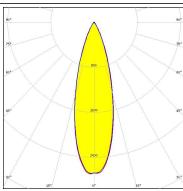
FWHM / FWTM 30.0° / 55.0°

Efficiency 86 %

Peak intensity 2.7 cd/lm LEDs/each optic

Light colour White

Required components:



# CREE \$

LED XE-G

FWHM / FWTM 29.0° / 53.0°

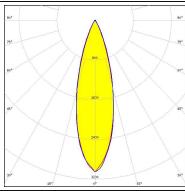
Efficiency 89 %

Peak intensity 3.1 cd/lm

LEDs/each optic 1

White Light colour

Required components:



## CREE +

LED XQ-E HI

 $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 29.0° / 51.0°

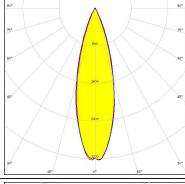
Efficiency 90 %

Peak intensity 3.2 cd/lm

LEDs/each optic Light colour

Required components:

1 White



## **MUMILEDS**

LED LUXEON 2835 Line

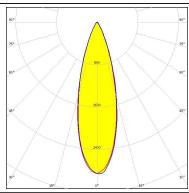
FWHM / FWTM 30.0° / 55.0°

Efficiency 96 % Peak intensity 2.9 cd/lm

LEDs/each optic

White Light colour

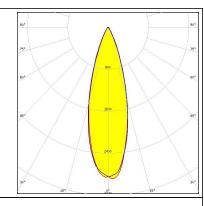
Required components:





## **M** LUMILEDS

LED LUXEON C
FWHM / FWTM 30.0° / 52.0°
Efficiency 93 %
Peak intensity 2.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



## **MILEDS**

LED LUXEON IR Compact

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



LED LUXEON Rubix
FWHM / FWTM 30.0° / 53.0°

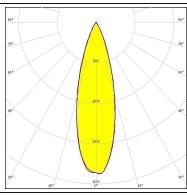
Efficiency 91 %

Peak intensity 3 cd/lm

LEDs/each optic 1

Light colour Blue

Required components:



## **DESCRIPTION** LUMILEDS

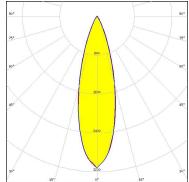
LED LUXEON Rubix
FWHM / FWTM 28.0° / 53.0°

Efficiency 91 %
Peak intensity 3.1 cd/lm

LEDs/each optic 1

Light colour White

Required components:

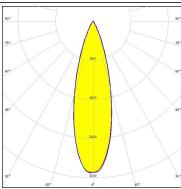






Efficiency 91 % Peak intensity 3.1 cd/lm LEDs/each optic

Light colour Required components:



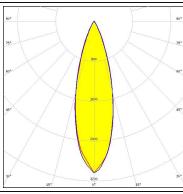
## **MUMILEDS**

LED LUXEON SunPlus 20 Line (150 deg)

Red

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

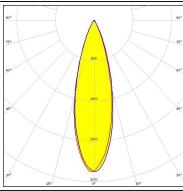
Required components:



## **WNICHIA**

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

Required components:

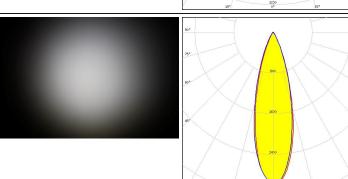


#### **OSRAM**

LED

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

Required components:

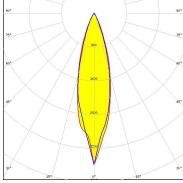




#### **OSRAM**

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

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

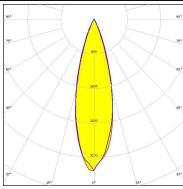


#### **OSRAM**

Required components:

LED OSLON Black Flat (LUW HWQP)

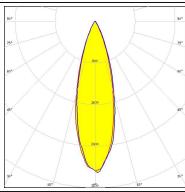
FWHM / FWTM 28.0° / 49.0° Efficiency 91 % Peak intensity 3.5 cd/lm LEDs/each optic 1 White Light colour Required components:



# OSRAM Opto Semiconductor

OSLON Square CSSRM2/CSSRM3 LED

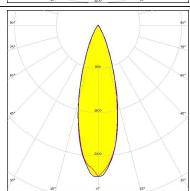
FWHM / FWTM 29.0° / 54.0° Efficiency 90 % Peak intensity 2.9 cd/lm LEDs/each optic 1 Light colour White Required components:



#### **OSRAM**

LED OSLON Square CSSRM2/CSSRM3

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





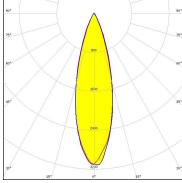
### **OSRAM**

LED OSLON Square Flat

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

Required components:

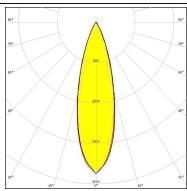




#### **OSRAM**

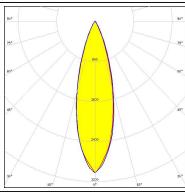
LED OSLON SSL 150 FWHM / FWTM 29.0° / 54.0° Efficiency 90 % Peak intensity 3 cd/lm LEDs/each optic 1 White Light colour

Required components:



# OSRAM Opto Semiconductor

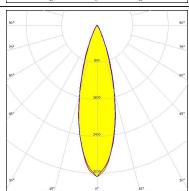
LED OSLON SSL 80 FWHM / FWTM 29.0° / 53.0° Efficiency 89 % Peak intensity 3 cd/lm LEDs/each optic 1 Light colour White Required components:



#### **OSRAM**

SFH 4715S FWHM / FWTM 28.0° / 51.0° Efficiency 90 % LEDs/each optic 1

IR Light colour Required components:



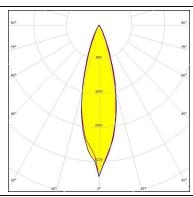


#### **OSRAM**

LED SFH 4770S  $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 27.0° / 51.0° Efficiency 85 % LEDs/each optic Light colour IR Required components:

#### **OSRAM**

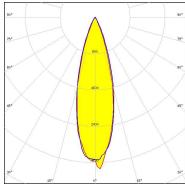
LED Synios P2720 1 mm FWHM / FWTM 27.0° / 50.0° Efficiency 91 % Peak intensity 3.6 cd/lm LEDs/each optic 1 White Light colour Required components:



# 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 Light colour White



#### **OSRAM**

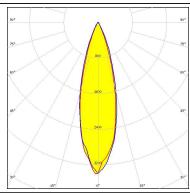
Required components:

LED Synios P2720 1/4 mm

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

White

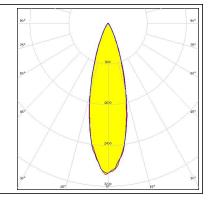
Light colour Required components:





# **SAMSUNG**

LED LH181B
FWHM / FWTM 29.0° / 53.5°
Efficiency 90 %
Peak intensity 3 cd/lm
LEDs/each optic 1
Light colour White
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.

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