

## TINA2-M

~30° medium beam optimized for Nichia NS6x83. Assembly with holder and installation tape.

## **SPECIFICATION:**

Dimensions	Ø 16.1 mm
Height	11 mm
Fastening	tape
ROHS compliant	yes 🕕



### **MATERIALS:**

Component	Type	Material	Colour	Finish	Length
TINA2-M	Single lens	PMMA	clear		16.1
TINA2-HLD-N83-BLK	Holder	PC	black		16.1
TINA-TAPE3	Tape	Acrylic foam	black		16.0

### **ORDERING INFORMATION:**

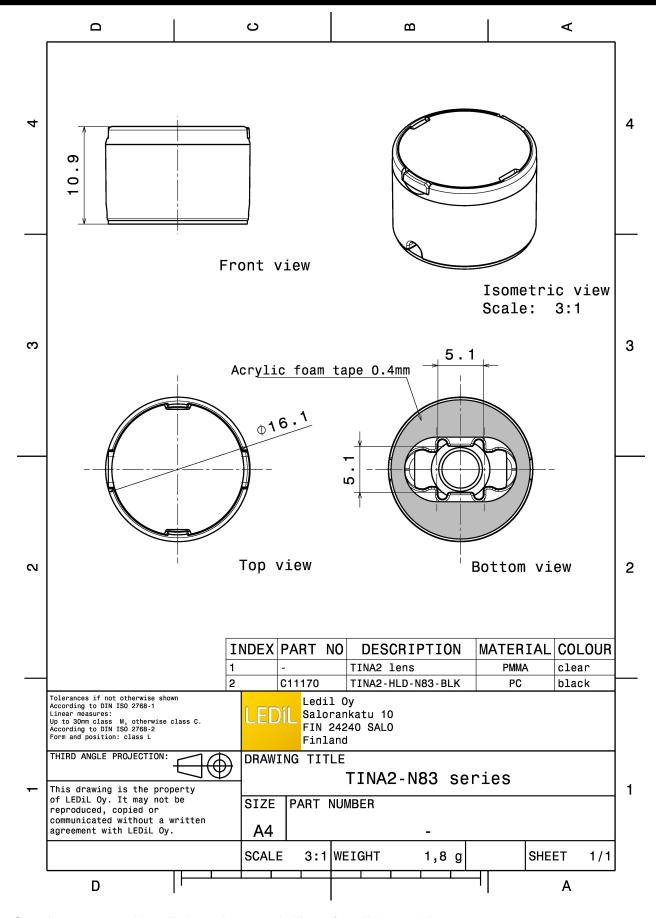
Component	Qty in box	MOQ	MPQ	Box weight (kg)

CA11174\_TINA2-M 4140 230 230

» Box size: 451 x 241 x 298 mm

8.4





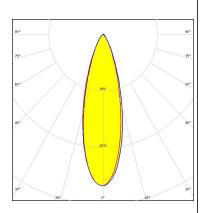
See also our general installation guide: <a href="www.ledil.com/installation\_guide">www.ledil.com/installation\_guide</a>



## **OPTICAL RESULTS (MEASURED):**

## CREE \$

LED MX-6
FWHM / FWTM 30.0° / 60.0°
Efficiency 83 %
Peak intensity 2.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

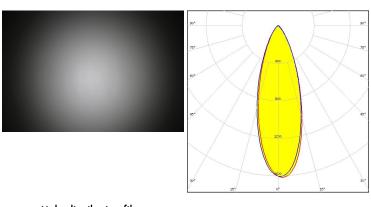


Light distribution files



LED LUXEON 5050 Round LES

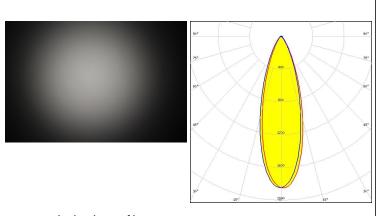
FWHM / FWTM 34.0° / 69.0°
Efficiency 78 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

## **MILEDS**

LED LUXEON V
FWHM / FWTM 32.0° / 63.0°
Efficiency 75 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



## **OPTICAL RESULTS (MEASURED):**

## **WNICHIA**

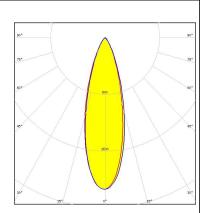
LED NS3x83
FWHM / FWTM 32.0° / 60.0°

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

Light distribution files

## **WNICHIA**

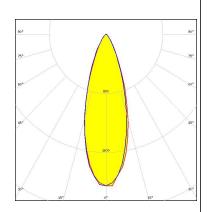
LED NS6x83
FWHM / FWTM 30.0° / 60.0°
Efficiency 85 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED OLP-x5050F6L
FWHM / FWTM 34.0° / 64.0°
Efficiency 86 %
Peak intensity 2.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



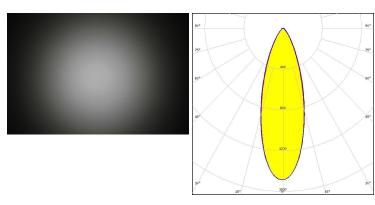
Light distribution files



## **OPTICAL RESULTS (MEASURED):**

## SAMSUNG

LED LH508A
FWHM / FWTM 33.0° / 68.0°
Efficiency 71 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



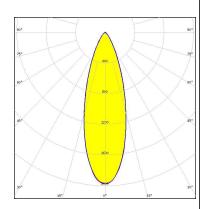
## **OPTICAL RESULTS (SIMULATED):**

## CREE \$

LED J Series 5050 Round LES

FWHM / FWTM 32.0° / 65.0°
Efficiency 83 %
Peak intensity 2 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:

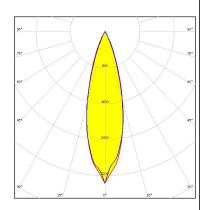


Light distribution files

## CREE \$

LED XP-E2
FWHM / FWTM 28.0° / 51.0°
Efficiency 90 %
Peak intensity 3.4 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:



Light distribution files

## CREE -

LED XP-G3
FWHM / FWTM 30.0° / 56.0°
Efficiency 84 %
Peak intensity 2.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files

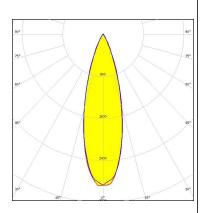


## **OPTICAL RESULTS (SIMULATED):**

## CREE \$

LED XP-L HI
FWHM / FWTM 30.0° / 54.0°
Efficiency 89 %
Peak intensity 2.9 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:

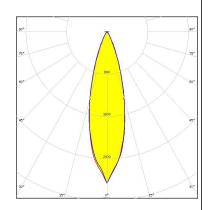


Light distribution files

## CREE \$

LED XT-E
FWHM / FWTM 28.0° / 52.0°
Efficiency 81 %
Peak intensity 2.9 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:



Light distribution files



LED NVSW219F
FWHM / FWTM 30.0° / 55.0°
Efficiency 88 %
Peak intensity 2.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files



## **OPTICAL RESULTS (SIMULATED):**

#### OSRAM Opto Semiconductors

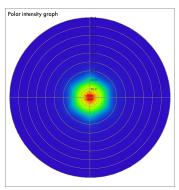
LED Duris S8
FWHM / FWTM 31.0° / 65.0°
Efficiency 78 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

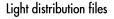
Light distribution files

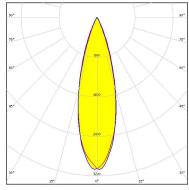
#### OSRAM Opto Semiconductors

LED SFH 4715AS
FWHM / FWTM 29.0° / 50.0°
Efficiency 87 %
LEDs/each optic 1
Light colour/type IR

Required components:

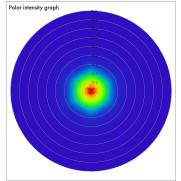


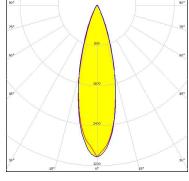




## OSRAM

LED SFH 4725AS
FWHM / FWTM 28.0° / 51.0°
Efficiency 86 %
LEDs/each optic 1
Light colour/type IR
Required components:





Light distribution files



# PRODUCT DATASHEET CA11174\_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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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 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

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