

### TINA3-S

~13° spot beam optimized for CREE XP-E. Assembly with holder, installation tape and location pins.

#### **SPECIFICATION:**

Dimensions	Ø 16.1
Height	11.4 mm
Fastening	tape, pin
ROHS compliant	yes 🛈



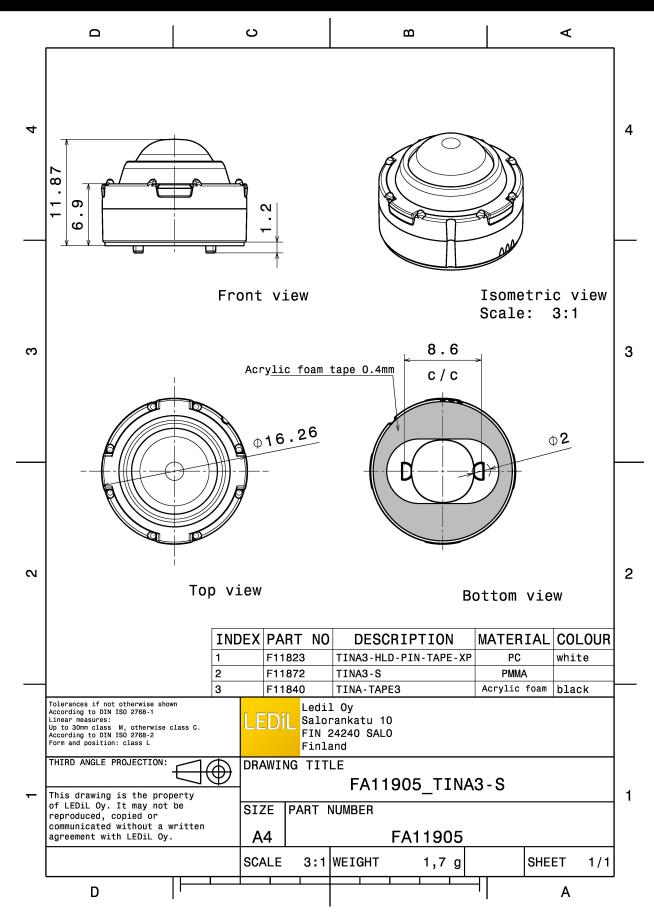
#### **MATERIALS:**

Component	Type	Material	Colour	Finish	Length (mm)
TINA3-S	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)
FA11905_TINA3-S	2016	288	288	3.7
» Box size:				



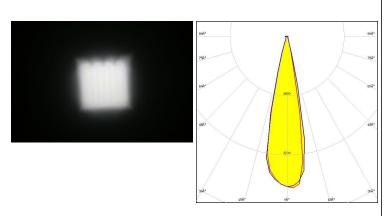


See also our general installation guide: www.ledil.com/installation\_guide



# CREE \$

LED XM-L
FWHM / FWTM 23.0° / 30.0°
Efficiency 86 %
Peak intensity 3.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



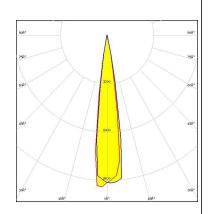
Light distribution files

# CREE \$

LED XP-E
FWHM / FWTM 10.0° / 16.0°
Efficiency 86 %
Peak intensity 15.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

# CREE \$

LED XP-G
FWHM / FWTM 15.0° / 25.0°
Efficiency 86 %
Peak intensity 6.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

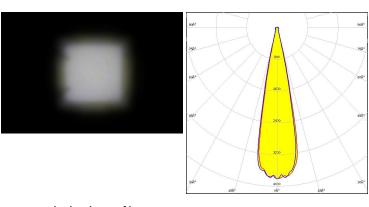


Light distribution files



# CREE \$

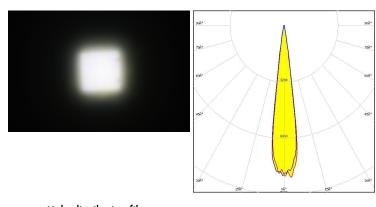
LED XP-L HD
FWHM / FWTM 23.0° / 32.0°
Efficiency 87 %
Peak intensity 3.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

# CREE \$

LED XP-L HI
FWHM / FWTM 15.0° / 22.0°
Efficiency 88 %
Peak intensity 8.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

## **DESCRIPTION**

LED LUXEON A
FWHM / FWTM 16.0° / 23.0°
Efficiency 83 %
Peak intensity 6.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files





LUXEON Rebel 11.0° / 18.0° FWHM / FWTM Efficiency 83 % Peak intensity 12.9 cd/lm LEDs/each optic

Light colour/type White Required components:

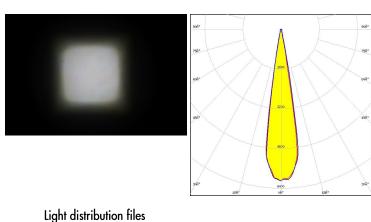
# LUMILEDS

LUXEON Rebel ES FWHM / FWTM 18.5° / 22.0° Efficiency 82 % Peak intensity 6.9 cd/lm LEDs/each optic

Light colour/type White Required components:



LED NVSW219F  $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 18.0° / 24.0° Efficiency 85 % Peak intensity 6.1 cd/lm LEDs/each optic Light colour/type White Required components:





## **WNICHIA**

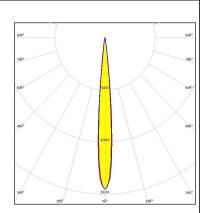
LED NVSxx19A
FWHM / FWTM 16.5° / 23.0°
Efficiency 87 %
Peak intensity 6.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

#### OSRAM Opto Semiconductors

Opto Semiconda

LED OSLON SSL 150
FWHM / FWTM 9.0° / 14.0°
Efficiency 84 %
Peak intensity 18.4 cd/lm
LEDs/each optic 1

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



Light distribution files

#### OSRAM Opto Semiconductors

LED OSLON SSL 80
FWHM / FWTM 11.0° / 17.0°
Efficiency 86 %
Peak intensity 14 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:





LED **Z**5

Light colour/type

Required components:

FWHM / FWTM 10.0° / 17.0° Efficiency 80 % Peak intensity 16.4 cd/lm LEDs/each optic

White



Light distribution files

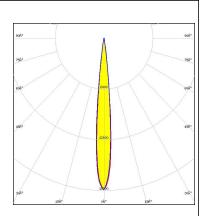
Published: 16/11/2018



# CREE +

LED XP-E2
FWHM / FWTM 10.0° / 17.0°
Efficiency 92 %
Peak intensity 19.1 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:

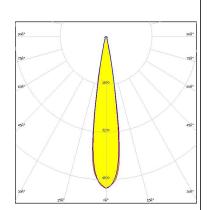


Light distribution files

# CREE \$

LED XP-G3
FWHM / FWTM 18.0° / 28.0°
Efficiency 78 %
Peak intensity 5.1 cd/lm
LEDs/each optic 1
Light colour/type Blue

Required components:



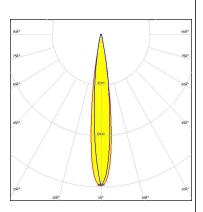
Light distribution files



LED LUXEON 2835 Line
FWHM / FWTM 13.0° / 25.0°
Efficiency 91 %
Peak intensity 9.5 cd/lm

LEDs/each optic 1

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



Light distribution files

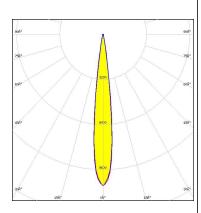




LFD SST-20 Gen1 FWHM / FWTM 12.0° / 22.0° Efficiency 86 % Peak intensity 10.8 cd/lm

LEDs/each optic 1 Light colour/type White

Required components:



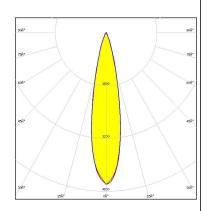
Light distribution files



NV4WB35AM LFD 22.0° / 41.0° FWHM / FWTM Efficiency 90 % Peak intensity 4.6 cd/lm LEDs/each optic

Light colour/type White

Required components:

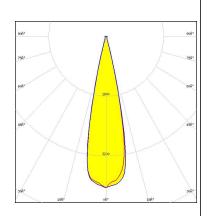


Light distribution files



NVSW519A FWHM / FWTM 24.0° / 32.0° Efficiency 82 % Peak intensity 4.1 cd/lm LEDs/each optic Light colour/type White

Required components:



Light distribution files

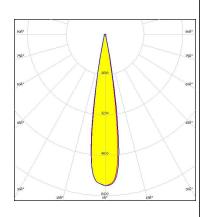


## **WNICHIA**

LED NVSxx19B/NVSxx19C

FWHM / FWTM 18.0° / 26.0°
Efficiency 83 %
Peak intensity 6 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:



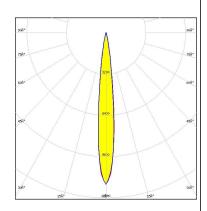
Light distribution files

#### OSRAM Opto Semiconductore

LED OSLON Black
FWHM / FWTM 12.0° / 23.0°
Efficiency 86 %
Peak intensity 11.8 cd/lm
LEDs/each optic 1

LEDs/each optic 1
Light colour/type White

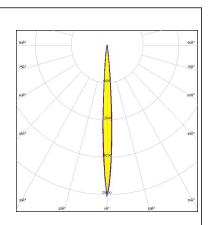
Required components:



Light distribution files

#### OSRAM Onto Semiconductors

LED SFH 4714A
FWHM / FWTM 7.0° / 14.0°
Efficiency 84 %
Peak intensity 26 cd/lm
LEDs/each optic 1
Light colour/type IR
Required components:

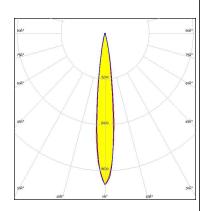


Light distribution files



#### OSRAM Opto Semiconductors

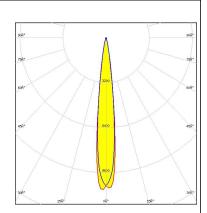
LED SFH 4715AS
FWHM / FWTM 13.0° / 25.0°
Efficiency 88 %
LEDs/each optic 1
Light colour/type IR
Required components:



Light distribution files

#### OSRAM Opto Semiconductors

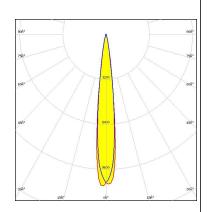
LED SFH 4715S
FWHM / FWTM 13.0° / 24.0°
Efficiency 87 %
LEDs/each optic 1
Light colour/type IR
Required components:



Light distribution files

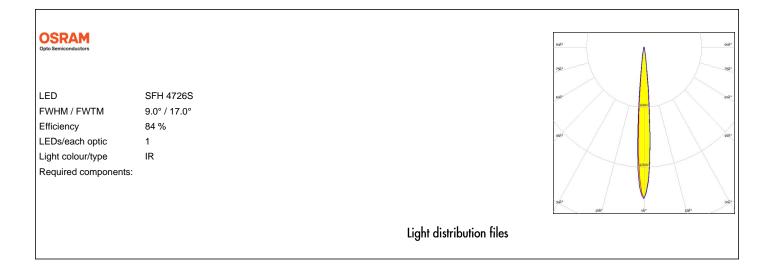
#### OSRAM Onto Semiconductors

LED SFH 4725S
FWHM / FWTM 13.0° / 24.0°
Efficiency 87 %
LEDs/each optic 1
Light colour/type IR
Required components:



Light distribution files

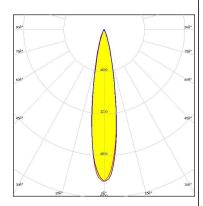






LED Z8Y22 FWHM / FWTM 15.0° / 29.0° 80 % Efficiency Peak intensity 5.4 cd/lm LEDs/each optic 1 Light colour/type White

Required components:



Light distribution files

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# PRODUCT DATASHEET FA11905\_TINA3-S

#### **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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# Local sales and technical support

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#### **Shipping locations**

Poznan, Poland Hong Kong, China

#### **Distribution Partners**

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