

TINA3-S

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

TECHNICAL SPECIFICATIONS:

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

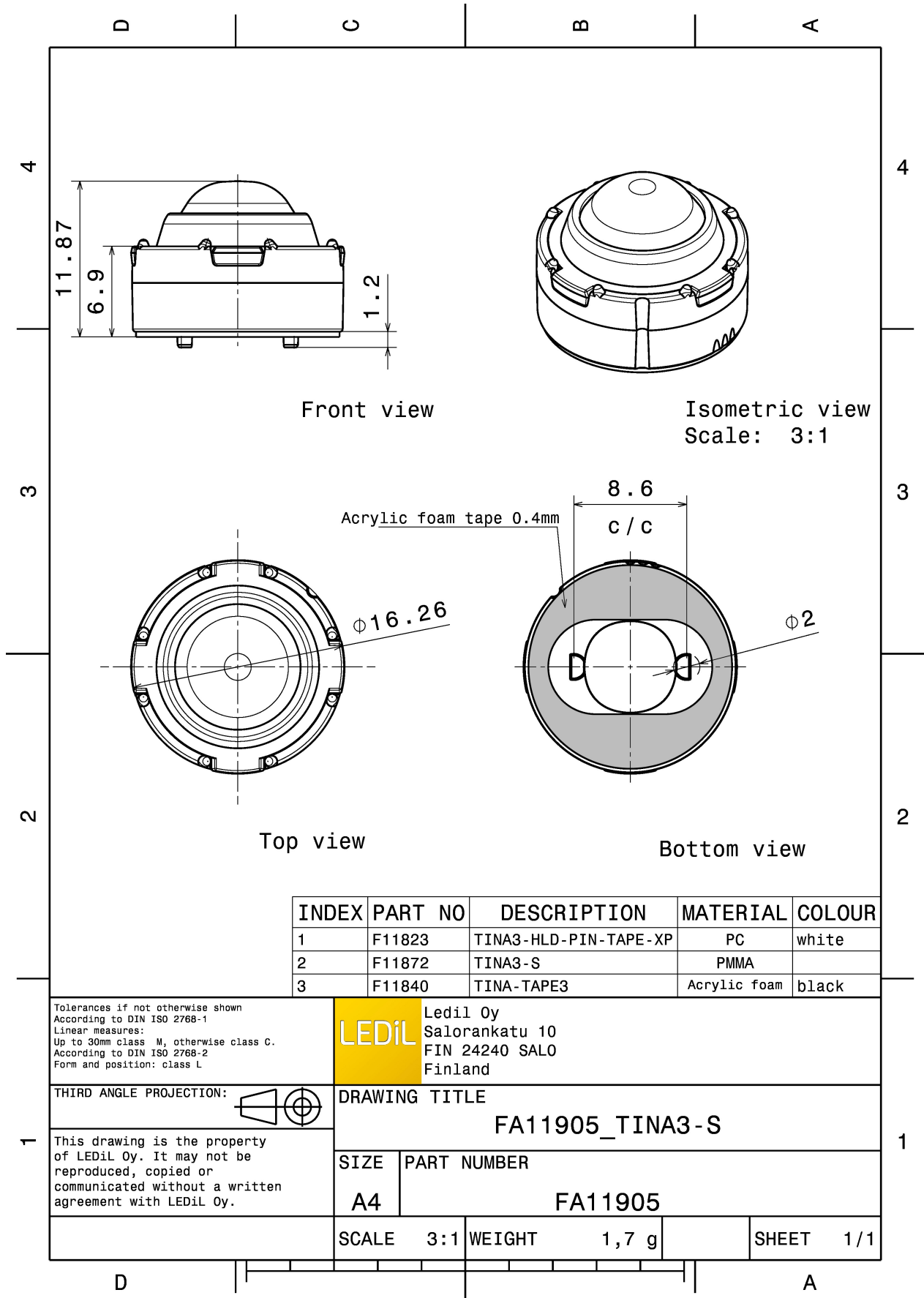


MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
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	Single lens	2016	288	288	3.7
» Box size:					

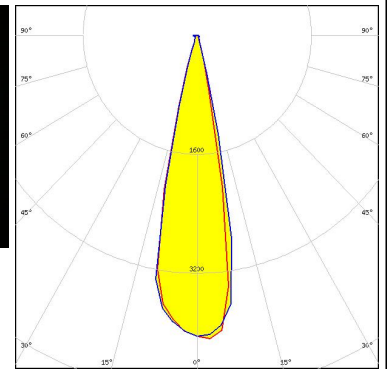


See also our general installation guide: www.ledil.com/installation_guide

PHOTOMETRIC DATA (MEASURED):

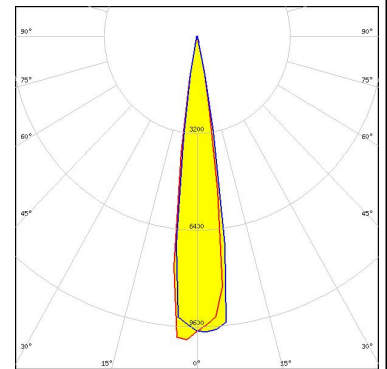
CREE

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



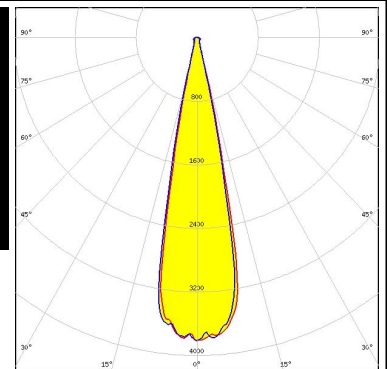
CREE

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



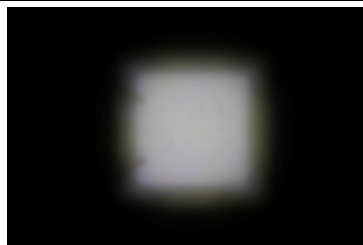
CREE

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



CREE

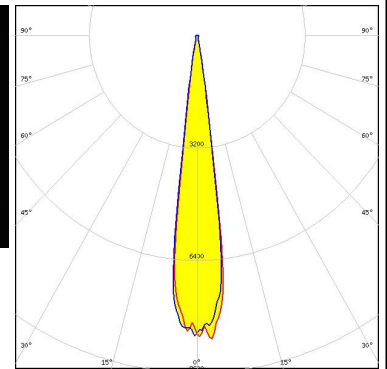
LED XP-L HD
 FWHM / FWTM 23.0° / 32.0°
 Efficiency 87 %
 Peak intensity 3.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (MEASURED):



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



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



LED LUXEON Rebel
 FWHM / FWTM 11.0° / 18.0°
 Efficiency 83 %
 Peak intensity 12.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

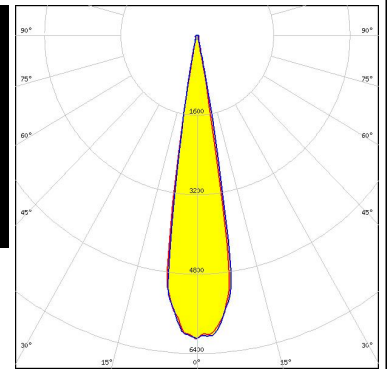
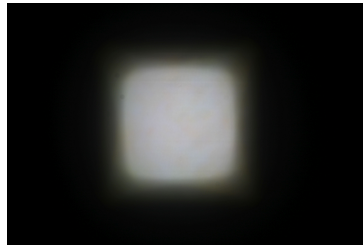


LED LUXEON Rebel ES
 FWHM / FWTM 18.5° / 22.0°
 Efficiency 82 %
 Peak intensity 6.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

PHOTOMETRIC DATA (MEASURED):



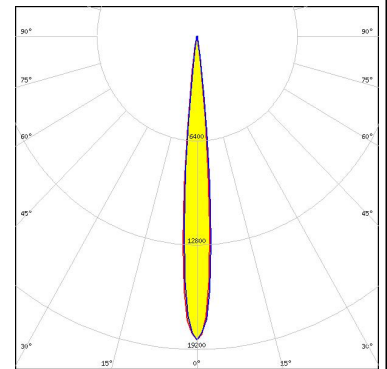
LED NVSW219F
 FWHM / FWTM 18.0° / 24.0°
 Efficiency 85 %
 Peak intensity 6.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



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




OSRAM Opto Semiconductors
 LED OSLOM SSL 150
 FWHM / FWTM 9.0° / 14.0°
 Efficiency 84 %
 Peak intensity 18.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



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

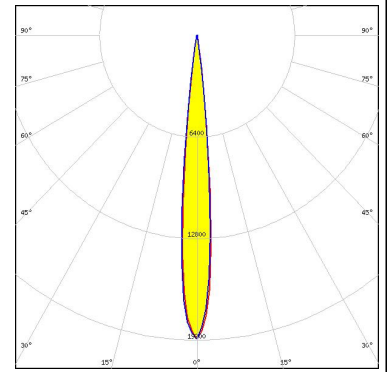
PHOTOMETRIC DATA (MEASURED):

		
SEOUL SEMICONDUCTOR		
LED	Z5	
FWHM / FWTM	10.0° / 17.0°	
Efficiency	80 %	
Peak intensity	16.4 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		

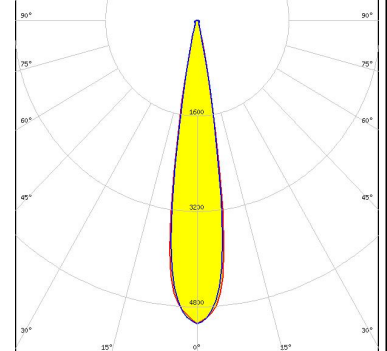
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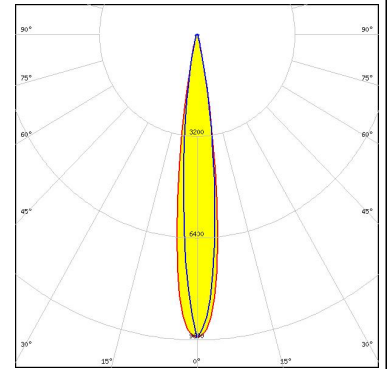
LED XP-E2
 FWHM / FWTM 10.0° / 17.0°
 Efficiency 92 %
 Peak intensity 19.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



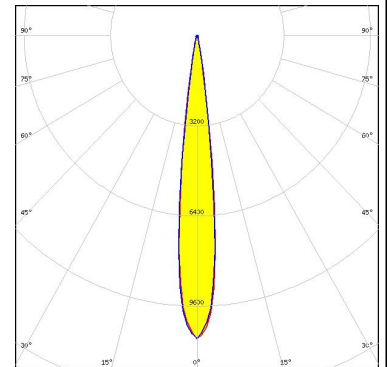
LED XP-G3
 FWHM / FWTM 18.0° / 28.0°
 Efficiency 78 %
 Peak intensity 5.1 cd/lm
 LEDs/each optic 1
 Light colour Blue
 Required components:



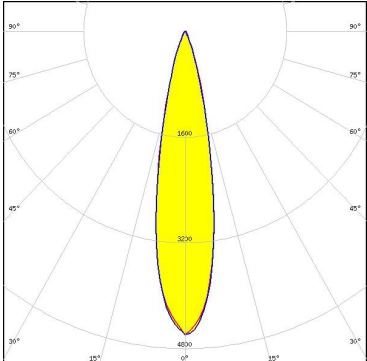
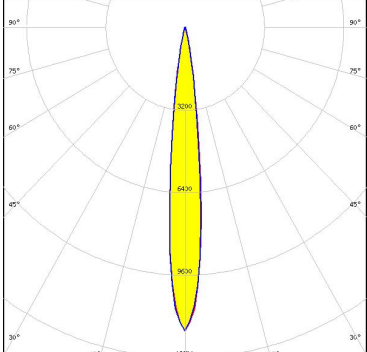
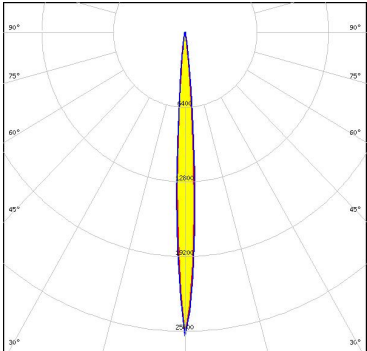

LED LUXEON 2835 Line
 FWHM / FWTM 13.0° / 25.0°
 Efficiency 91 %
 Peak intensity 9.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



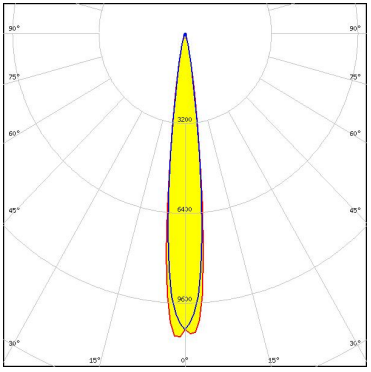
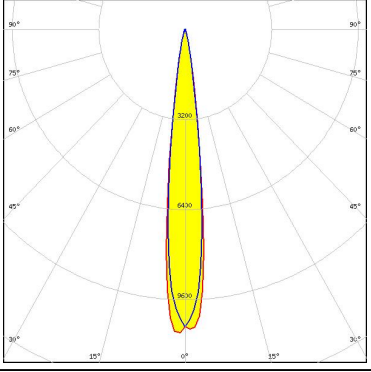
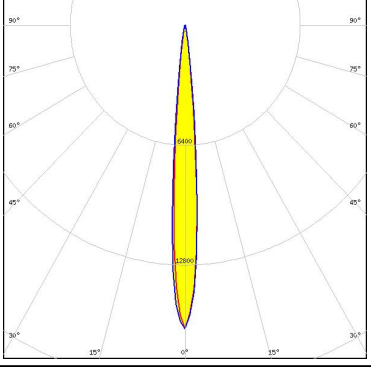
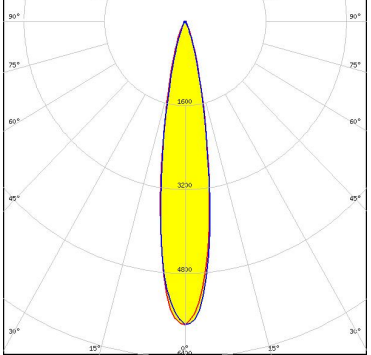
LED SST-20
 FWHM / FWTM 12.0° / 22.0°
 Efficiency 86 %
 Peak intensity 10.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (SIMULATED):

<p>NICHIA</p> <p>LED NV4WB35AM FWHM / FWTM 22.0° / 41.0° Efficiency 90 % Peak intensity 4.6 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED OSLO Black FWHM / FWTM 12.0° / 23.0° Efficiency 86 % Peak intensity 11.8 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED SFH 4714A FWHM / FWTM 7.0° / 14.0° Efficiency 84 % Peak intensity 26 cd/lm LEDs/each optic 1 Light colour IR Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED SFH 4715AS FWHM / FWTM 13.0° / 25.0° Efficiency 88 % Peak intensity 10.6 cd/lm LEDs/each optic 1 Light colour IR Required components:</p>	

PHOTOMETRIC DATA (SIMULATED):

<p>OSRAM Opto Semiconductors</p> <p>LED SFH 4715S FWHM / FWTM 13.0° / 24.0° Efficiency 87 % LEDs/each optic 1 Light colour IR Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED SFH 4725S FWHM / FWTM 13.0° / 24.0° Efficiency 87 % LEDs/each optic 1 Light colour IR Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED SFH 4726S FWHM / FWTM 9.0° / 17.0° Efficiency 84 % LEDs/each optic 1 Light colour IR Required components:</p>	
<p>SEOL SEOUL SEMICONDUCTOR</p> <p>LED Z8Y22 FWHM / FWTM 15.0° / 29.0° Efficiency 80 % Peak intensity 5.4 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	

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:

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