

TINA3-W

~40° wide beam optimized for CREE XP-E.
Assembly with holder, installation tape and location pins.

SPECIFICATION:

Dimensions	Ø 16.1 mm
Height	7.3 mm
Fastening	tape, pin
ROHS compliant	yes ⓘ

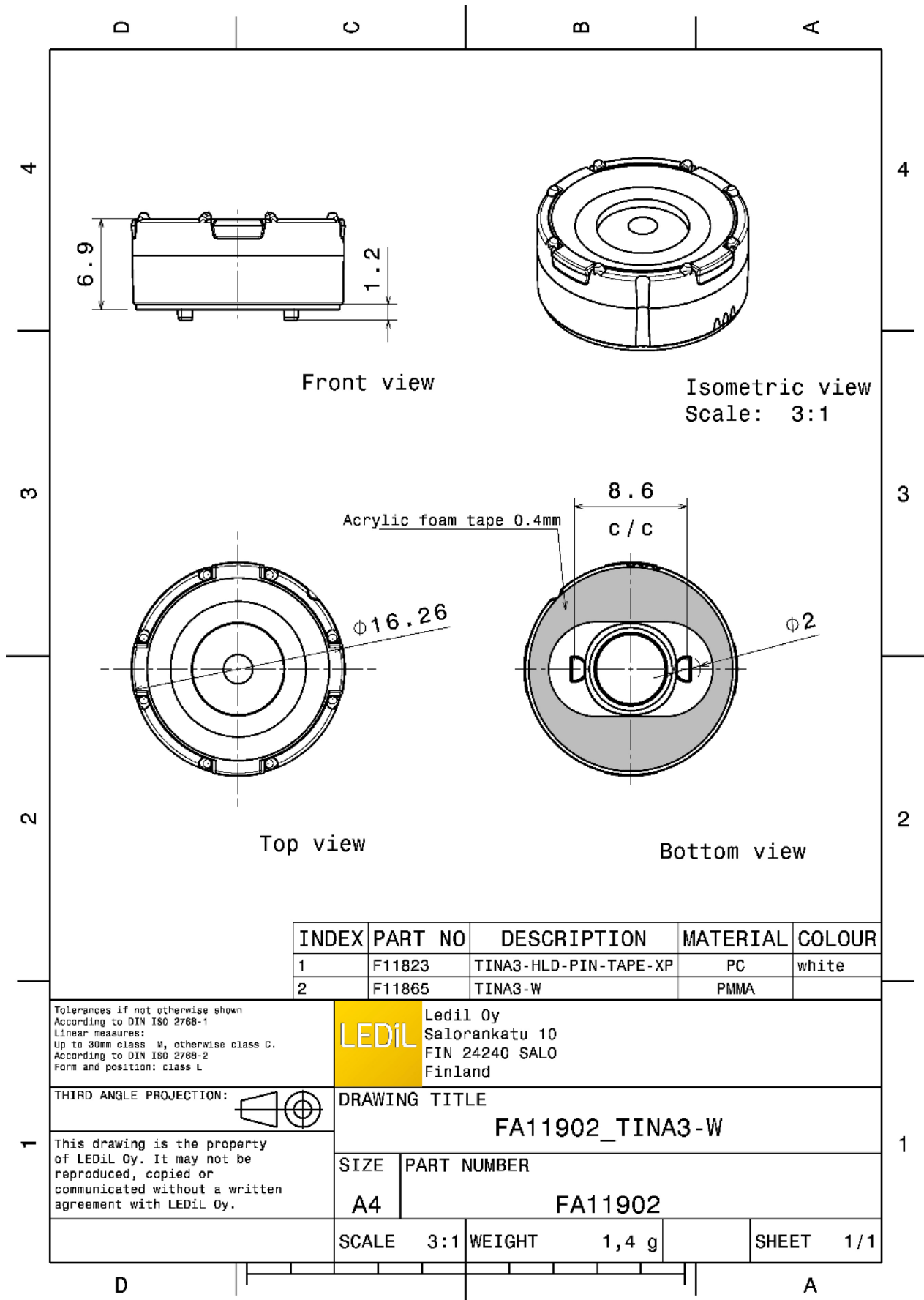


MATERIALS:

Component	Type	Material	Colour	Finish
TINA3-W	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)
FA11902_TINA3-W	Single lens	2016	288	288	3.5
» Box size: 470 x 240 x 105 mm					

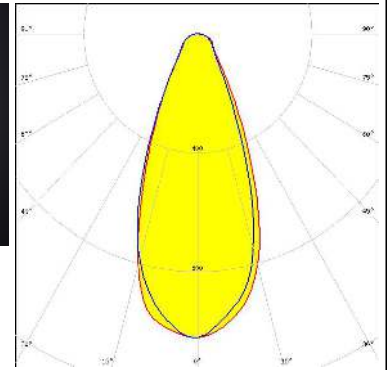
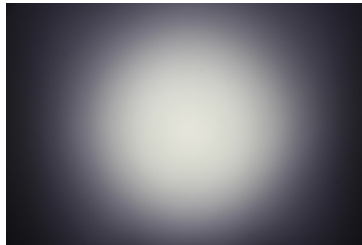


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):

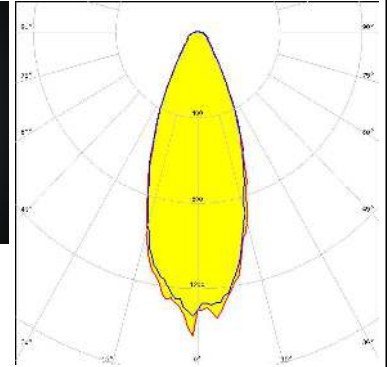
CREE ⇄ LED

LED XM-L
 FWHM / FWTM 43.0° / 82.0°
 Efficiency 94 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



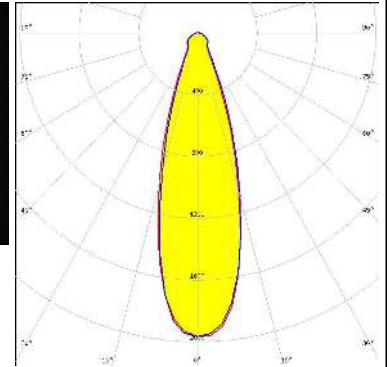
CREE ⇄ LED

LED XM-L2
 FWHM / FWTM 38.0° / 70.0°
 Efficiency 91 %
 LEDs/each optic 1
 Light colour White
 Required components:



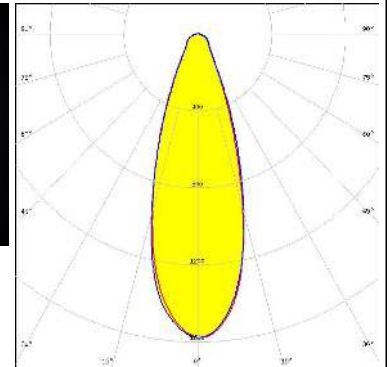
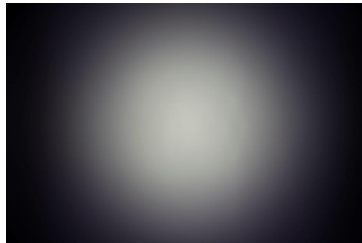
CREE ⇄ LED

LED XP-G2
 FWHM / FWTM 32.0° / 58.0°
 Efficiency 89 %
 Peak intensity 2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



CREE ⇄ LED

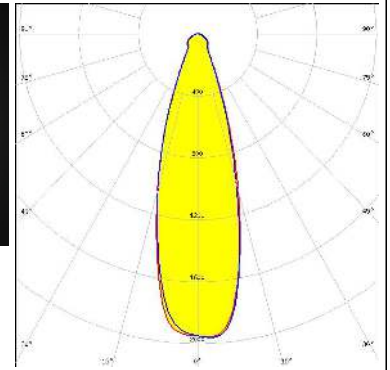
LED XP-L HD
 FWHM / FWTM 34.0° / 68.0°
 Efficiency 89 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (MEASURED):

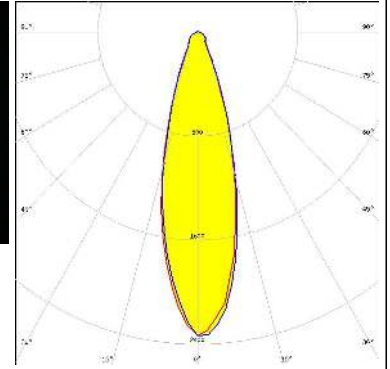
CREE → LED

LED XP-L HI
 FWHM / FWTM 31.0° / 57.0°
 Efficiency 91 %
 Peak intensity 2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



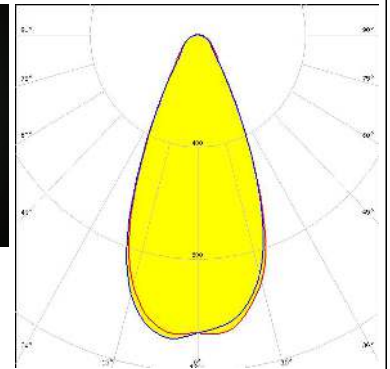
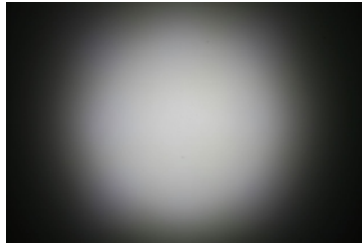
CREE → LED

LED XT-E
 FWHM / FWTM 30.0° / 57.0°
 Efficiency 92 %
 Peak intensity 2.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



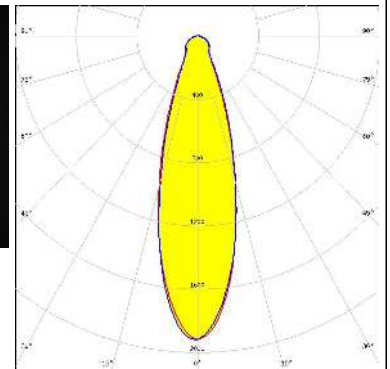
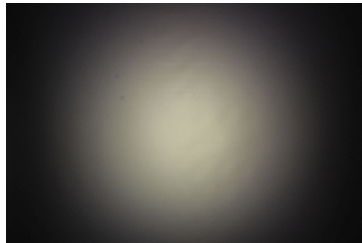
NICHIA

LED NS9x383
 FWHM / FWTM 48.0° / 85.0°
 Efficiency 90 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



NICHIA

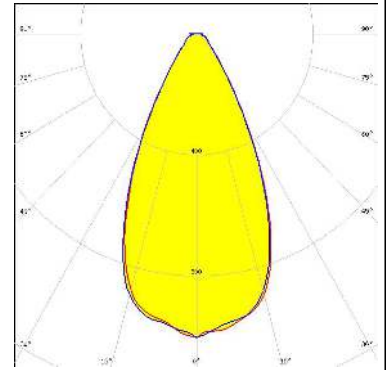
LED NVSU333A
 FWHM / FWTM 30.0° / 60.0°
 Efficiency 94 %
 Peak intensity 1.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (SIMULATED):

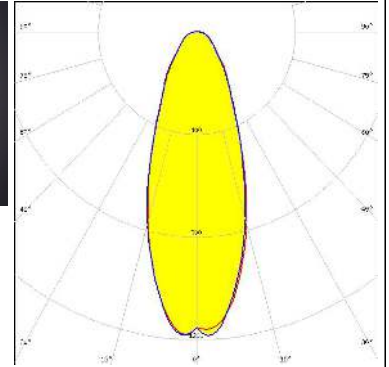
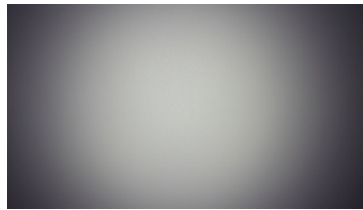
CREE ⇄ LED

LED XD16
 FWHM / FWTM 52.0° / 86.0°
 Efficiency 90 %
 Peak intensity 1 cd/lm
 LEDs/each optic 4
 Light colour White
 Required components:



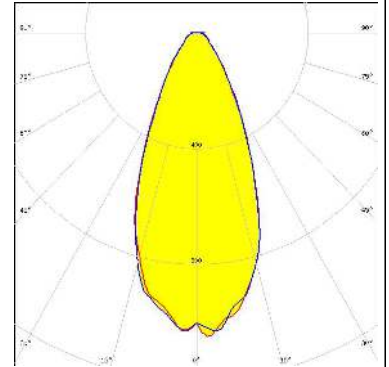
CREE ⇄ LED

LED XHP35 HD
 FWHM / FWTM 38.0° / 89.0°
 Efficiency 90 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



CREE ⇄ LED

LED XHP35.2 HD
 FWHM / FWTM 46.0° / 89.0°
 Efficiency 86 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



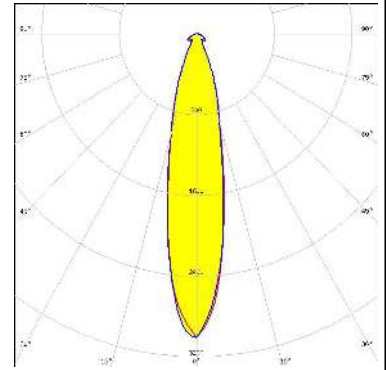
CREE ⇄ LED

LED XM-L HVW
 FWHM / FWTM 50.0°
 Efficiency %
 LEDs/each optic 1
 Light colour White
 Required components:

OPTICAL RESULTS (SIMULATED):

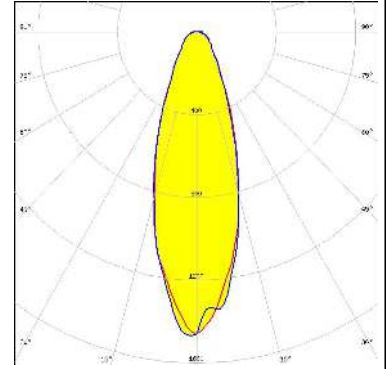
CREE LED

LED XP-E2
 FWHM / FWTM 22.0° / 50.0°
 Efficiency 96 %
 Peak intensity 3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



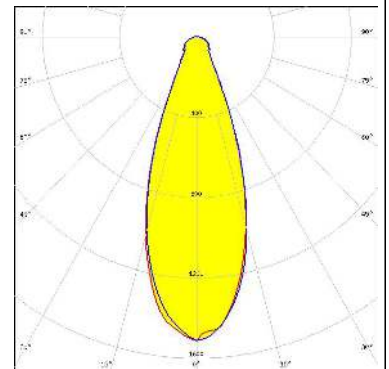
CREE LED

LED XP-G3
 FWHM / FWTM 33.0° / 77.0°
 Efficiency 90 %
 Peak intensity 1.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



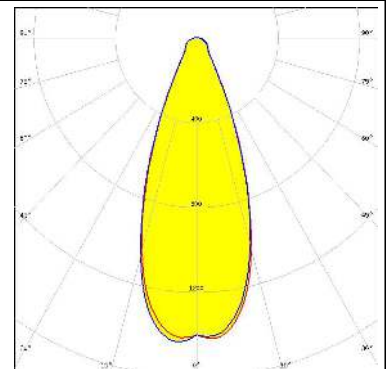
LUMILEDS

LED LUXEON HL2X
 FWHM / FWTM 38.0° / 67.0°
 Efficiency 92 %
 Peak intensity 1.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



NICHIA

LED NVSW3x9A
 FWHM / FWTM 40.0° / 70.0°
 Efficiency 91 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (SIMULATED):

OSRAM <small>Opto Semiconductors</small>	<p>LED OSLON Signal</p> <p>FWHM / FWTM 24.0° / 52.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 2.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour Blue</p> <p>Required components:</p>	
OSRAM <small>Opto Semiconductors</small>	<p>LED OSLON SSL 80</p> <p>FWHM / FWTM 31.0° / 56.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 1.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour Far Red</p> <p>Required components:</p>	
OSRAM <small>Opto Semiconductors</small>	<p>LED OSLON SSL 80</p> <p>FWHM / FWTM 30.0° / 57.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>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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