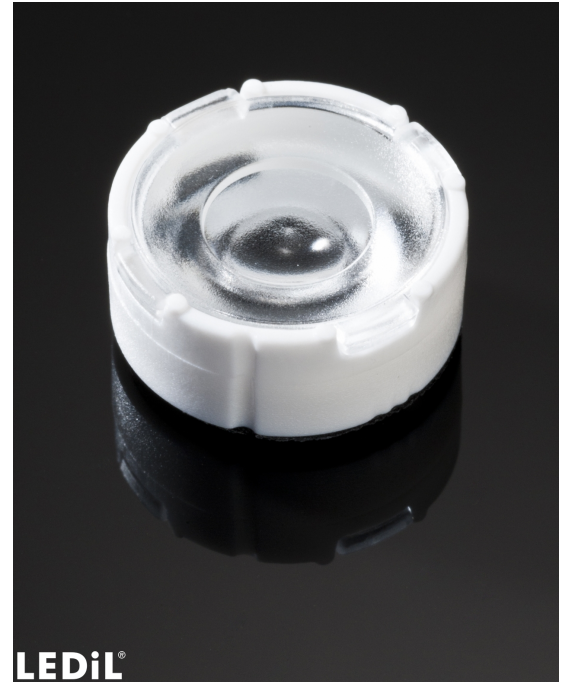


TINA3-WW

~55° wide beam optimized for CREE XP-E.
Assembly with holder, installation tape and location pins.

SPECIFICATION:

Dimensions	Ø 16.1 mm
Height	7.1 mm
Fastening	tape, pin
ROHS compliant	yes ⓘ

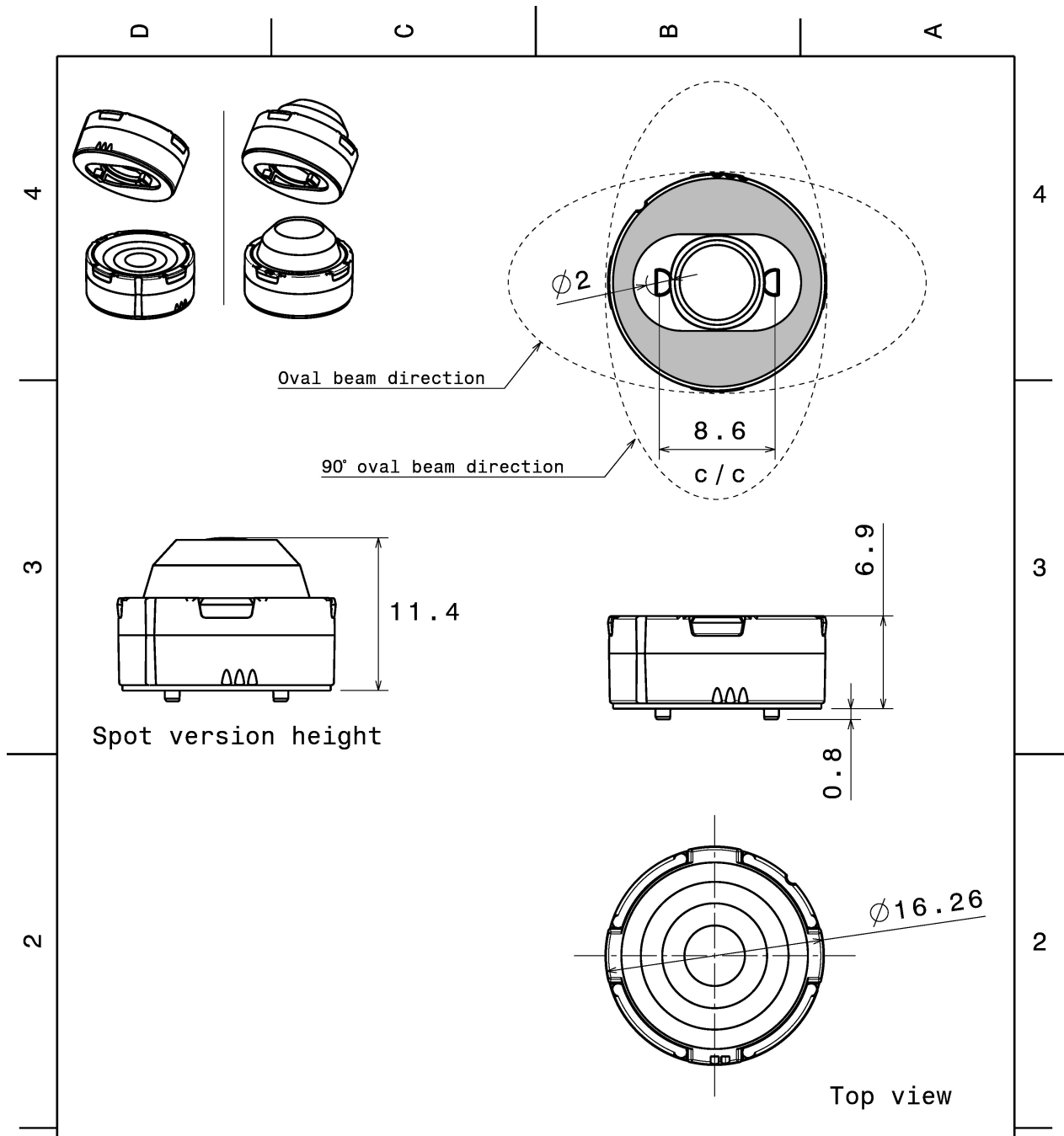


MATERIALS:

Component	Type	Material	Colour	Finish
TINA3-WW	Single lens	PMMA	clear	
TINA3-HLD-PIN-TAPE-XP	Holder	PC	white	
TINA-TAPE3	Tape	Acrylic foam	black	

ORDERING INFORMATION:

Component	Type	Qty in box	MOQ	MPQ	Box weight (kg)
FA11903_TINA3-WW » Box size: 470 x 240 x 105 mm	Single lens	2016	288	288	3.2



Tolerances if not otherwise shown
According to DIN ISO 2768-1
Linear measures:
Up to 30mm class F, otherwise class M.
According to DIN ISO 2768-2
Form and position: class K

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FIN 24240 SALO
Finland

THIRD ANGLE PROJECTION:

DRAWING TITLE
TINA3 Datasheet

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SIZE	PART NUMBER
A4	-

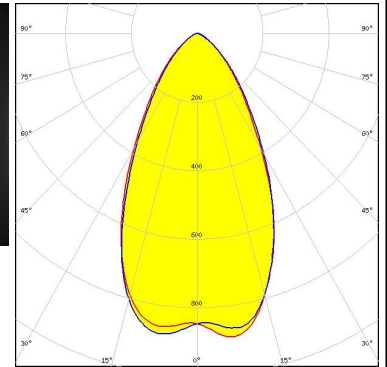
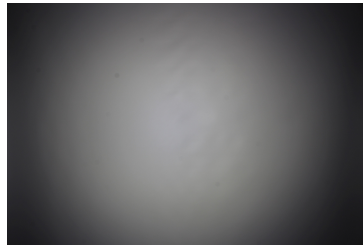
SCALE	4:3	WEIGHT	-	SHEET	1/1
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See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):



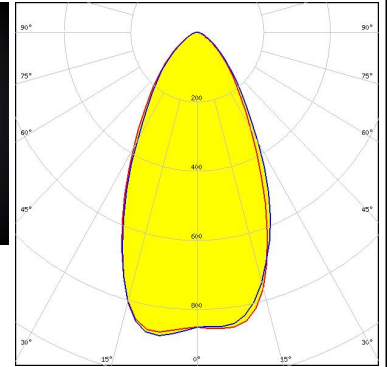
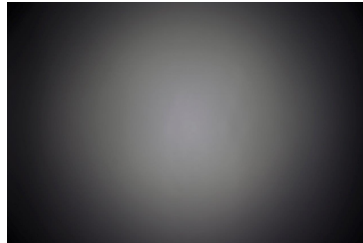
LED XM-L
 FWHM / FWTM 56.0° / 100.0°
 Efficiency 91 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



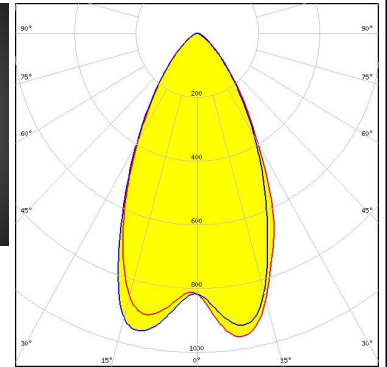
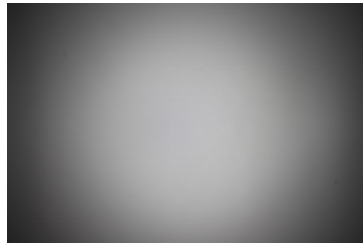
LED XM-L2
 FWHM / FWTM 56.0° / 101.0°
 Efficiency 89 %
 LEDs/each optic 1
 Light colour White
 Required components:




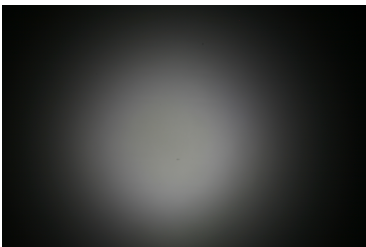
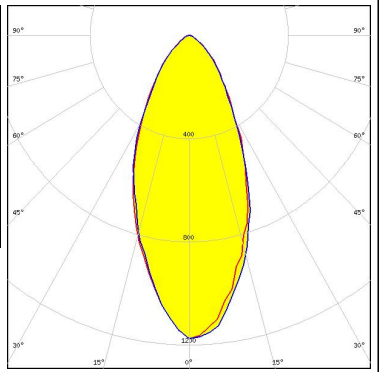
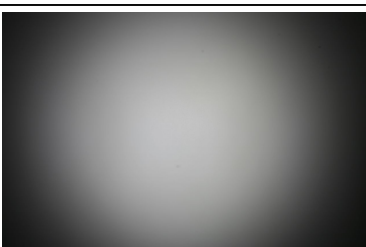
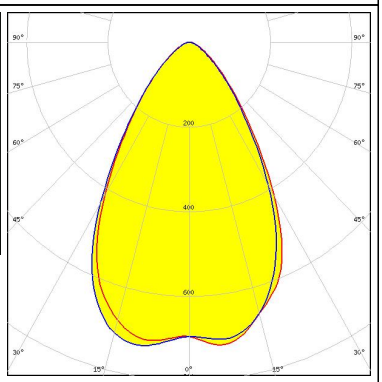
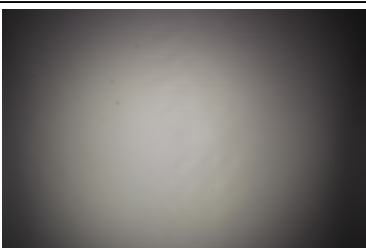
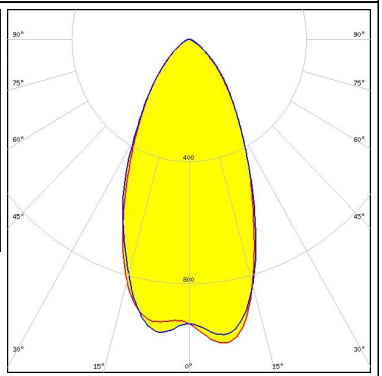
LED XP-L HD
 FWHM / FWTM 53.0° / 103.0°
 Efficiency 91 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED XP-L HI
 FWHM / FWTM 54.0° / 94.0°
 Efficiency 91 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



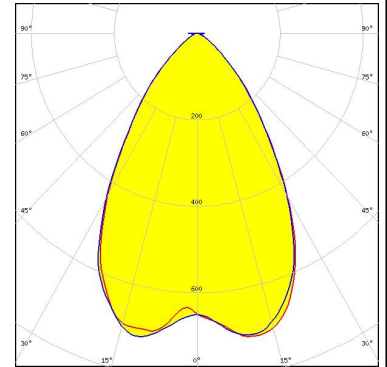
OPTICAL RESULTS (MEASURED):

<p>CREE  LED</p> <p>LED XT-E FWHM / FWTM 46.0° / 96.0° Efficiency 92 % Peak intensity 1.2 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>NICHIA</p> <p>LED NS9x383 FWHM / FWTM 65.0° / 108.0° Efficiency 90 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>NICHIA</p> <p>LED NVSW219F FWHM / FWTM 51.0° / 98.0° Efficiency 92 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		

OPTICAL RESULTS (SIMULATED):



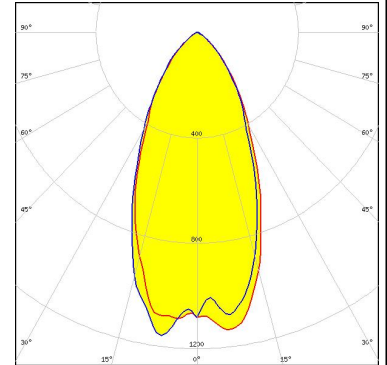
LED: XD16
 FWHM / FWTM: 61.0° / 101.0°
 Efficiency: 91 %
 Peak intensity: 0.8 cd/lm
 LEDs/each optic: 4
 Light colour: White
 Required components:



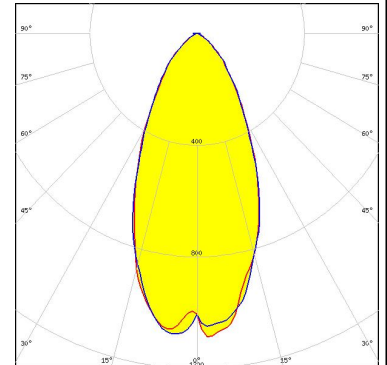
LED: XM-L HVW
 FWHM / FWTM: 62.0°
 Efficiency: %
 LEDs/each optic: 1
 Light colour: White
 Required components:



LED: XP-G2
 FWHM / FWTM: 49.0° / 95.0°
 Efficiency: 95 %
 Peak intensity: 1.2 cd/lm
 LEDs/each optic: 1
 Light colour: White
 Required components:



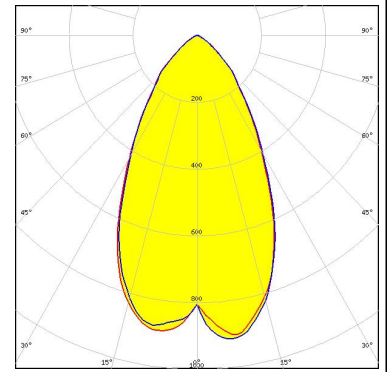
LED: XP-G3
 FWHM / FWTM: 48.0° / 96.0°
 Efficiency: 92 %
 Peak intensity: 1.1 cd/lm
 LEDs/each optic: 1
 Light colour: White
 Required components:



OPTICAL RESULTS (SIMULATED):

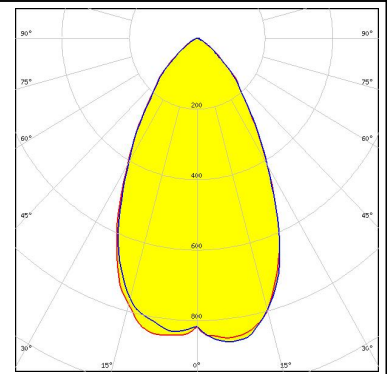
LUMILEDS

LED LUXEON HL2X
FWHM / FWTM 57.0° / 102.0°
Efficiency 94 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



SAMSUNG

LED LH351B
FWHM / FWTM 59.0° / 102.0°
Efficiency 94 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



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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