TINA-WW

~60° wide beam optimized for Nichia NS6x83. Assembly with holder and installation tape.



SPECIFICATION:

Dimensions	Ø 16.1 mm
Height	11.1 mm
Fastening	tape
ROHS compliant	yes

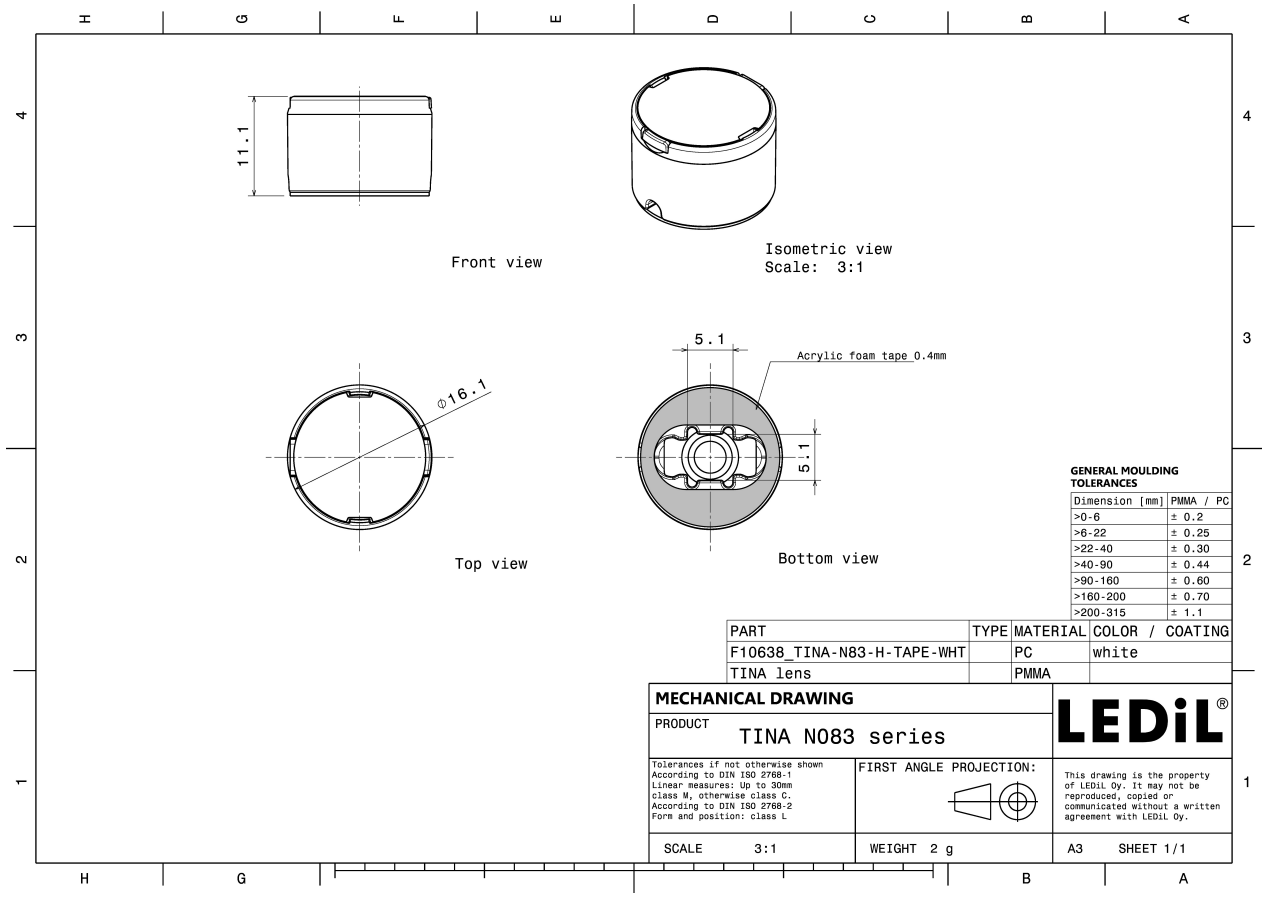
MATERIALS:

Component	Type	Material	Colour	Finish
TINA-WW	Single lens	PMMA	clear	
TINA-N83-H-TAPE-WHT	Holder	PC	white	
TINA-TAPE3	Tape	Acrylic foam	black	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FA10901_TINA-WW	Single lens	2016	288	144	4.5
» Box size:					

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GENERAL MOULDING TOLERANCES

Dimension [mm]	PMMA / PC
>0-6	± 0.2
>6-22	± 0.25
>22-40	± 0.30
>40-90	± 0.44
>90-160	± 0.60
>160-200	± 0.70
>200-315	± 1.1

PART	TYPE	MATERIAL	COLOR / COATING
F10638_TINA-N83-H-TAPE-WHT		PC	white
TINA lens		PMMA	

MECHANICAL DRAWING

PRODUCT
TINA N083 series

LEDiL®

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

FIRST ANGLE PROJECTION:

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SCALE 3:1 | WEIGHT 2 g | A3 SHEET 1/1

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

OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	MX-6
FWHM / FWTM	52.0° / 88.0°
Efficiency	89 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



NICHIA

LED	NS6x83
FWHM / FWTM	53.0° / 90.0°
Efficiency	90 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

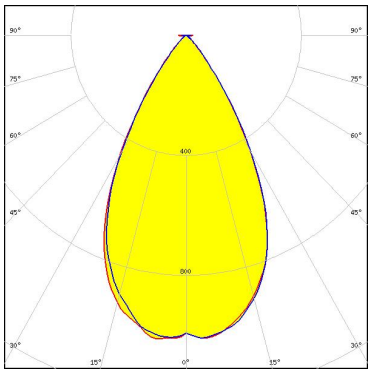


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OPTICAL RESULTS (SIMULATED):

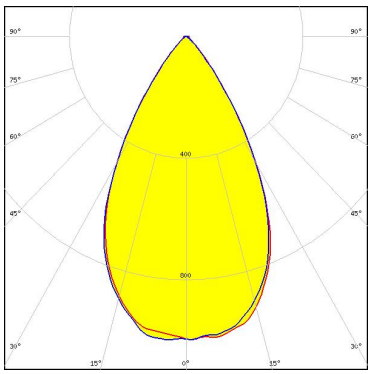
CREE LEDs

LED	XP-G3
FWHM / FWTM	58.0° / 82.0°
Efficiency	89 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



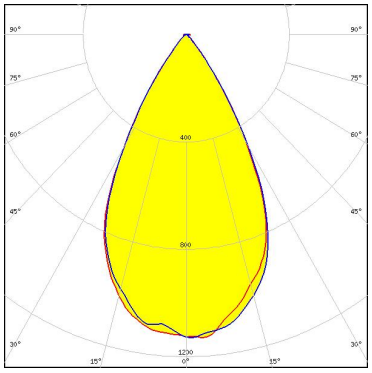
CREE LEDs

LED	XP-L HD
FWHM / FWTM	58.0° / 85.0°
Efficiency	91 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



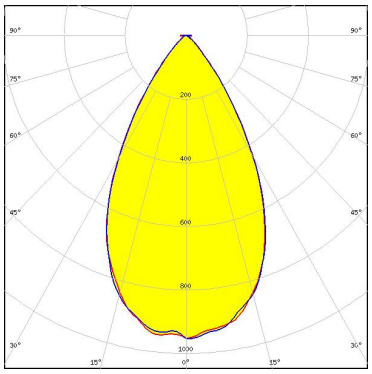
CREE LEDs

LED	XP-L HI
FWHM / FWTM	57.0° / 78.0°
Efficiency	93 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



CREE LEDs

LED	XP-L2
FWHM / FWTM	58.0° / 86.0°
Efficiency	89 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

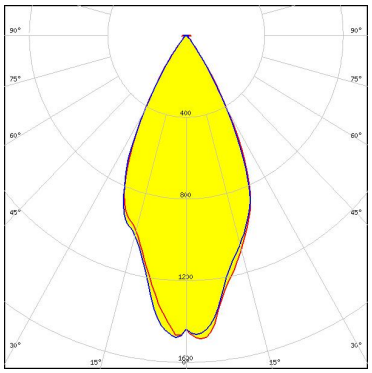


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OPTICAL RESULTS (SIMULATED):

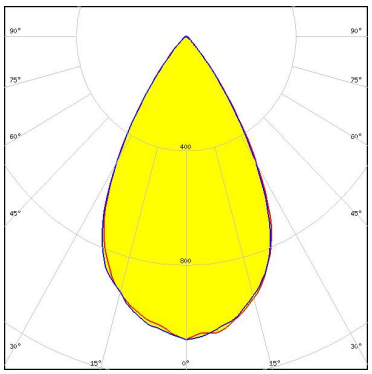
CREE LEDs

LED	XQ-E HI
FWHM / FWTM	50.0° / 72.0°
Efficiency	91 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



LUMILEDS

LED	LUXEON HL2X
FWHM / FWTM	59.0° / 82.0°
Efficiency	94 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



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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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