TINA-RS

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



SPECIFICATION:

Dimensions	Ø 16.1 mm
Height	9.7 mm
Fastening	tape
ROHS compliant	yes

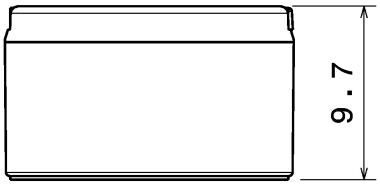
MATERIALS:

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

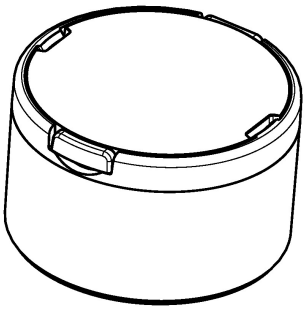
ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FA10887_TINA-RS	Single lens	2016	288	144	4.0
» Box size: 470 x 240 x 105 mm					

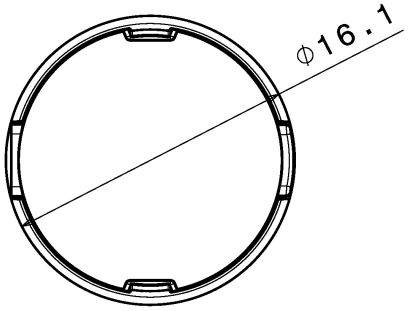
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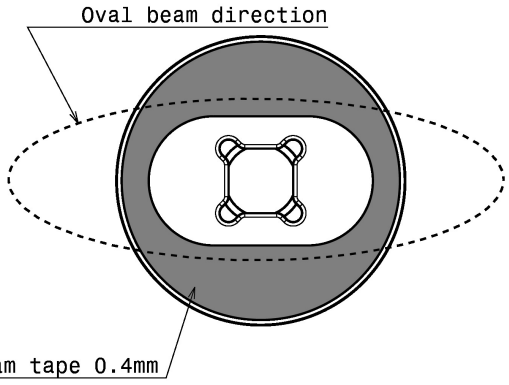
Front view



Isometric view



Top view



Bottom view

INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	-	Tina lens	PMMA	
2	-	Tina holder	PC	white

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

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Finland

THIRD ANGLE PROJECTION:

DRAWING TITLE
Tina serie datasheet

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SIZE A4

PART NUMBER -

SCALE 1:1 WEIGHT SHEET 1/1

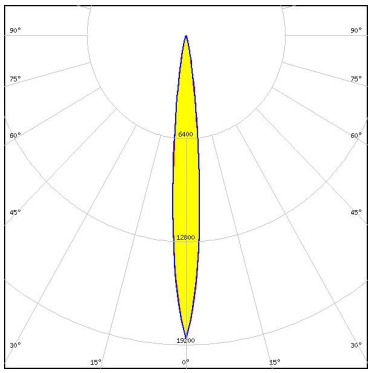
See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	XP-E
FWHM / FWTM	10.0° / 19.0°
Efficiency	93 %
Peak intensity	18.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

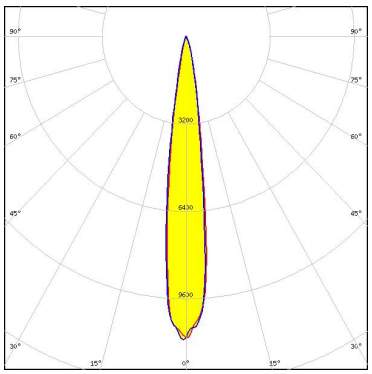


CREE LEDs

LED	XP-G
FWHM / FWTM	15.0° / 31.0°
Efficiency	94 %
Peak intensity	11.1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



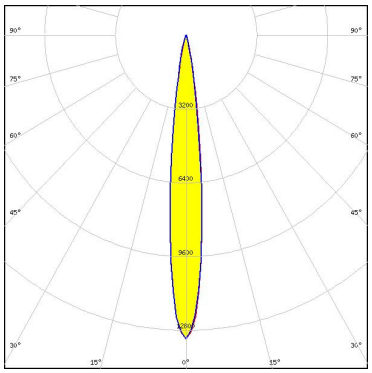


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OPTICAL RESULTS (SIMULATED):

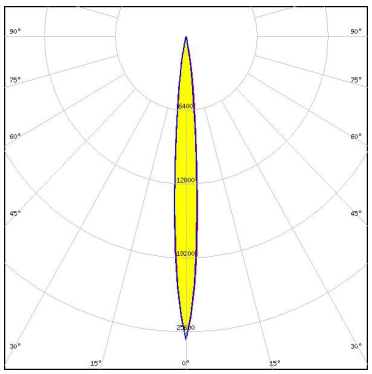
CREE LEDs

LED	XD16
FWHM / FWTM	12.0° / 24.0°
Efficiency	92 %
Peak intensity	13.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



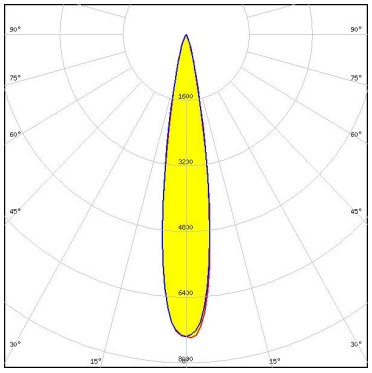
LUMILEDS

LED	LUXEON CZ
FWHM / FWTM	9.0° / 20.0°
Efficiency	94 %
Peak intensity	26.3 cd/lm
LEDs/each optic	1
Light colour	Red
Required components:	



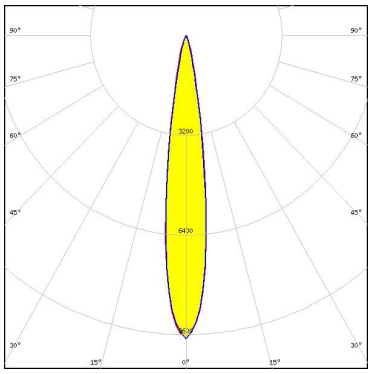
NICHIA

LED	NVSxx19B/NVSxx19C
FWHM / FWTM	18.0° / 32.0°
Efficiency	88 %
Peak intensity	7.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OSRAM
Opto Semiconductors

LED	OSLON Square CSSRM2/CSSRM3
FWHM / FWTM	16.0° / 29.0°
Efficiency	95 %
Peak intensity	9.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



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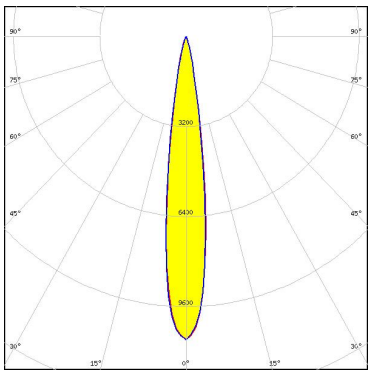
OPTICAL RESULTS (SIMULATED):

SEOUL SEMICONDUCTOR

LED	Z5
FWHM / FWTM	11.0°
Efficiency	%
LEDs/each optic	1
Light colour	White
Required components:	

SEOUL SEMICONDUCTOR

LED	Z5M1/Z5M2
FWHM / FWTM	14.0° / 28.0°
Efficiency	94 %
Peak intensity	10.8 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:

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