TINA2-RS

~14° spot beam. Assembly with holder, installation tape and location pins.

SPECIFICATION:

Dimensions	Ø 16.0 mm
Height	9.5 mm
Fastening	tape, pin
ROHS compliant	yes ⓘ

MATERIALS:

Component	Type	Material	Colour	Finish
TINA2-RS	Single lens	PMMA	clear	
TINA2-HLD-BLK	Holder	PC	black	
TINA-TAPE3	Tape	Acrylic foam	black	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA12374_TINA2-RS	Single lens	4140	230	230	8.3

» Box size: 451 x 241 x 298 mm

D   C   B   A

5.3

8.6   c/c

Ø2

Acrylic foam tape 0.4mm   Bottom view

9.5

Front view   0.6

Oval beam direction
(0-90 is turned 90 degree)

Ø16

Top view

INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	C12372	TINA2-HLD-BLK	PC	black
2	-	TINA2-XP lens	PMMA	

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

LEDiL   Ledil Oy
Salorankatu 10
FIN 24240 SALO
Finland

THIRD ANGLE PROJECTION:

This drawing is the property
of LEDiL Oy. It may not be
reproduced, copied or
communicated without a written
agreement with LEDiL Oy.

DRAWING TITLE
TINA2-XP series

SIZE	PART NUMBER
A4	-

| SCALE 1:1 | WEIGHT 1,7 g | SHEET 1/1 |

D   A

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

OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	XB-H
FWHM / FWTM	17.0° / 30.0°
Efficiency	86 %
Peak intensity	8.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

CREE LEDs
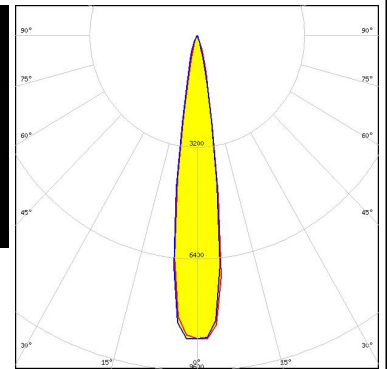
LED	XQ-E HI
FWHM / FWTM	9.0° / 19.0°
Efficiency	81 %
Peak intensity	25 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

LUMILEDS
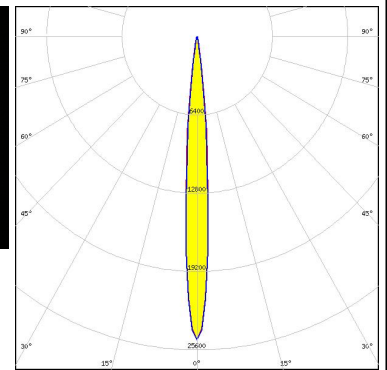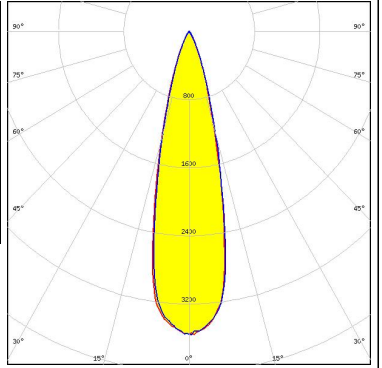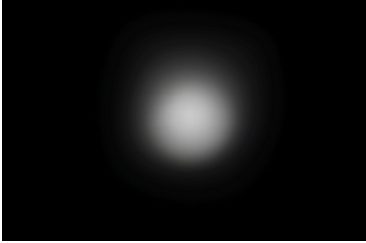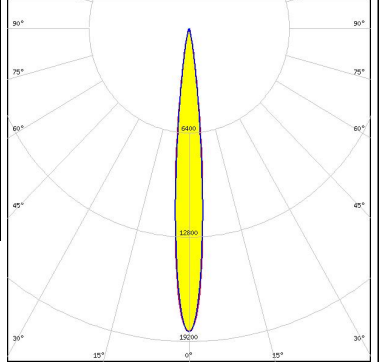
LED	LUXEON TX
FWHM / FWTM	15.0° / 27.0°
Efficiency	89 %
Peak intensity	9.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

NICHIA
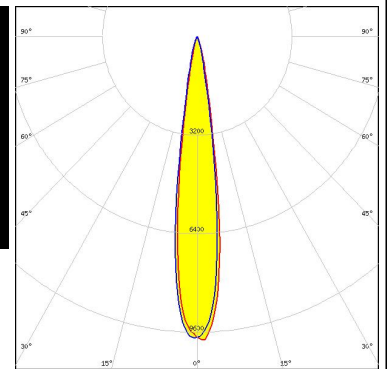
LED	NVSxx19B/NVSxx19C
FWHM / FWTM	18.0° / 32.0°
Efficiency	88 %
Peak intensity	7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

OPTICAL RESULTS (MEASURED):

NICHIA

LED	NWSx229A
FWHM / FWTM	25.0° / 47.0°
Efficiency	86 %
Peak intensity	3.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

OSRAM Opto Semiconductors

LED	OSLON Square EC
FWHM / FWTM	13.0° / 26.0°
Efficiency	88 %
Peak intensity	9.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

OSRAM Opto Semiconductors

LED	OSLON Square PC
FWHM / FWTM	12.0° / 25.0°
Efficiency	88 %
Peak intensity	9.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

OSRAM Opto Semiconductors

LED	OSLON SSL 150
FWHM / FWTM	11.0° / 21.0°
Efficiency	89 %
Peak intensity	18.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

LED	OSLON SSL 80
FWHM / FWTM	10.0° / 24.0°
Efficiency	88 %
Peak intensity	16 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

OSRAM
Opto Semiconductors

LED	SFH 4180S
FWHM / FWTM	6.0° / 16.0°
Efficiency	%
LEDs/each optic	1
Light colour	IR
Required components:	

OSRAM
Opto Semiconductors

LED	SFH 4716S
FWHM / FWTM	11.0° / 22.0°
Efficiency	%
LEDs/each optic	1
Light colour	White
Required components:	

SEOUL SEMICONDUCTOR

LED	Z5M3
FWHM / FWTM	17.0° / 34.0°
Efficiency	87 %
Peak intensity	6.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

OPTICAL RESULTS (SIMULATED):

CREE LEDs
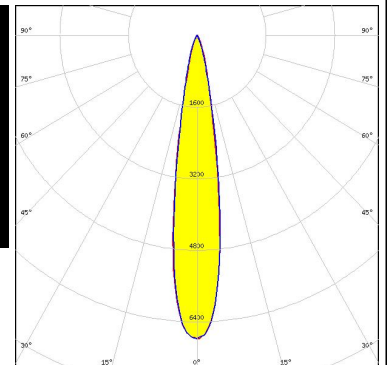
LED	XB-D
FWHM / FWTM	17.0° / 33.0°
Efficiency	88 %
Peak intensity	8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

CREE LEDs
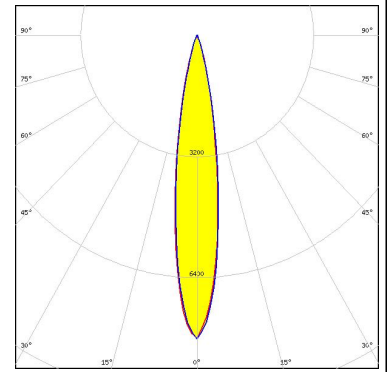
LED	XE-G
FWHM / FWTM	10.0° / 23.0°
Efficiency	91 %
Peak intensity	17.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

LUMILEDS
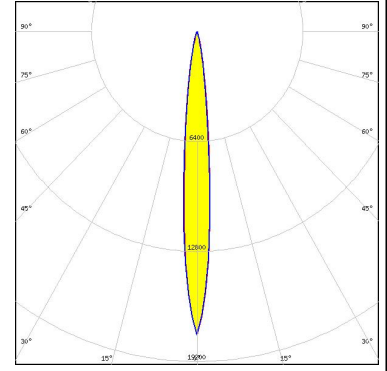
LED	LUXEON C
FWHM / FWTM	11.0° / 26.0°
Efficiency	92 %
Peak intensity	14 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
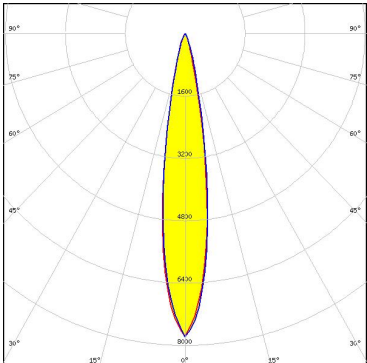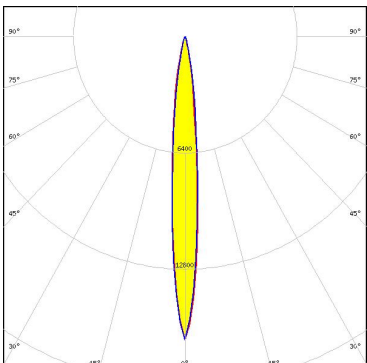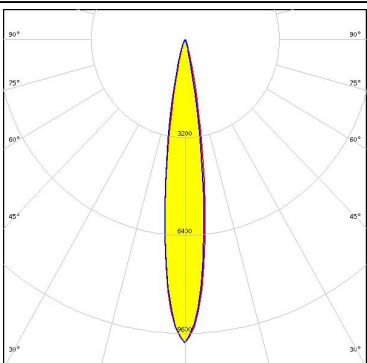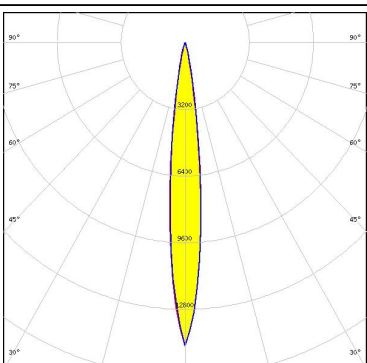
LUMILEDS
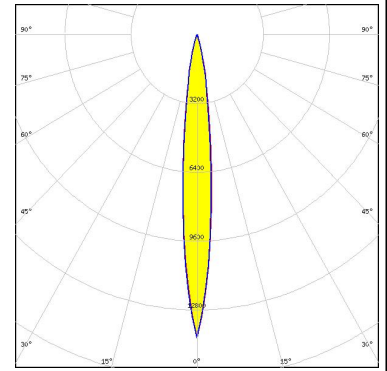
LED	LUXEON CZ
FWHM / FWTM	15.0° / 29.0°
Efficiency	92 %
Peak intensity	10.8 cd/lm
LEDs/each optic	1
Light colour	Red
Required components:	
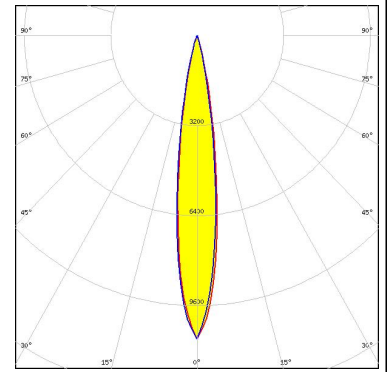
OPTICAL RESULTS (SIMULATED):

LUMILEDS

LED	LUXEON IR Compact
FWHM / FWTM	10.0° / 22.0°
Efficiency	87 %
LEDs/each optic	1
Light colour	IR
Required components:	

LUMILEDS

LED	LUXEON Rubix
FWHM / FWTM	16.0° / 30.0°
Efficiency	92 %
Peak intensity	10.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

LUMILEDS

LED	LUXEON Rubix
FWHM / FWTM	15.0° / 29.0°
Efficiency	92 %
Peak intensity	11.1 cd/lm
LEDs/each optic	1
Light colour	Red
Required components:	

LUMILEDS

LED	LUXEON Rubix
FWHM / FWTM	16.0° / 29.0°
Efficiency	92 %
Peak intensity	10.8 cd/lm
LEDs/each optic	1
Light colour	Blue
Required components:	

OPTICAL RESULTS (SIMULATED):

NICHIA

LED	NF2W757H
FWHM / FWTM	18.0° / 32.0°
Efficiency	92 %
Peak intensity	7.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

NICHIA

LED	NFSx757G
FWHM / FWTM	10.0° / 24.0°
Efficiency	93 %
Peak intensity	16.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

OSRAM
Opto Semiconductors

LED	Duris S5 (2 chip)
FWHM / FWTM	15.0° / 29.0°
Efficiency	92 %
Peak intensity	9.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

OSRAM
Opto Semiconductors

LED	OSCONIQ P 3030
FWHM / FWTM	12.0° / 24.0°
Efficiency	91 %
Peak intensity	16 cd/lm
LEDs/each optic	1
Light colour	Blue
Required components:	

OPTICAL RESULTS (SIMULATED):

OSRAM Opto Semiconductors

LED	OSLON Black Flat (LUW HWQP)
FWHM / FWTM	14.0° / 26.0°
Efficiency	92 %
Peak intensity	13.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
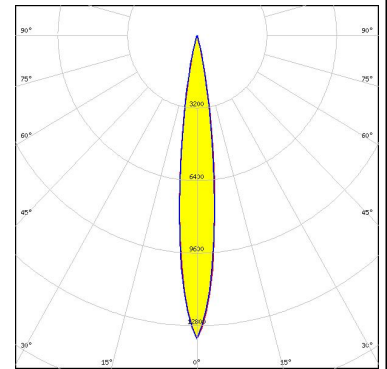
OSRAM Opto Semiconductors

LED	OSLON Black Flat (LUW HWQP)
FWHM / FWTM	8.6° / 17.0°
Efficiency	92 %
Peak intensity	32.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
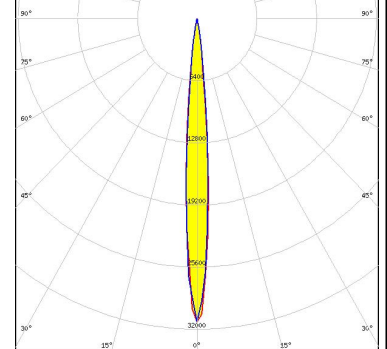
OSRAM Opto Semiconductors

LED	OSLON Square Flat
FWHM / FWTM	11.0° / 23.0°
Efficiency	91 %
Peak intensity	16.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
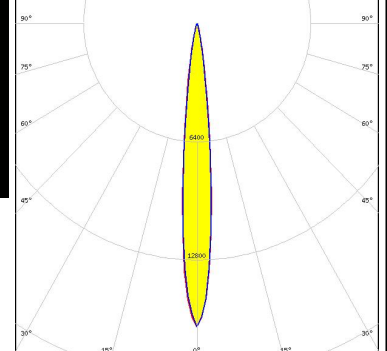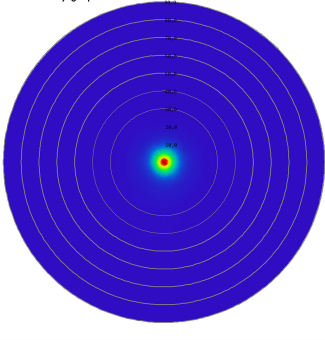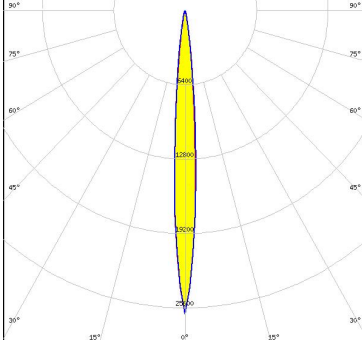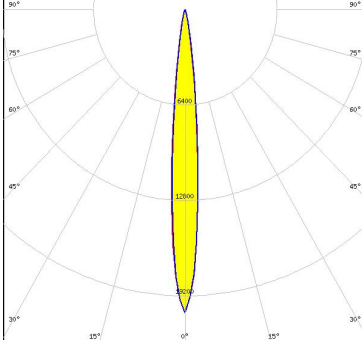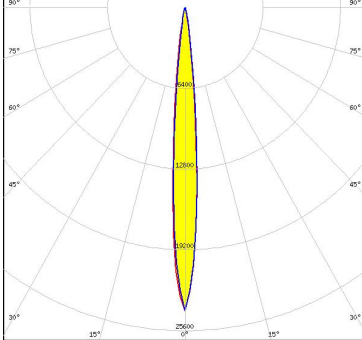
OSRAM Opto Semiconductors

LED	SFH 4170S
FWHM / FWTM	10.0° / 21.0°
Efficiency	81 %
LEDs/each optic	1
Light colour	IR
Required components:	

OPTICAL RESULTS (SIMULATED):

OSRAM Opto Semiconductors

LED	SFH 4770S
FWHM / FWTM	9.0° / 19.0°
Efficiency	83 %
LEDs/each optic	1
Light colour	IR
Required components:	

OSRAM Opto Semiconductors

LED	Synios P2720 1 mm
FWHM / FWTM	10.0° / 20.0°
Efficiency	92 %
Peak intensity	20.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

OSRAM Opto Semiconductors

LED	Synios P2720 1/2 mm
FWHM / FWTM	9.0° / 18.0°
Efficiency	92 %
Peak intensity	24 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

OSRAM Opto Semiconductors

LED	Synios P2720 1/4 mm
FWHM / FWTM	8.0° / 17.0°
Efficiency	92 %
Peak intensity	27.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	