TINA2-W

~45° wide 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-W-XP	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)
CA12378_TINA2-W	Single lens	4140	230	230	8.3

» Box size:

D C B A

5.3

8.6 c/c

Ø2

PU 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:

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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):

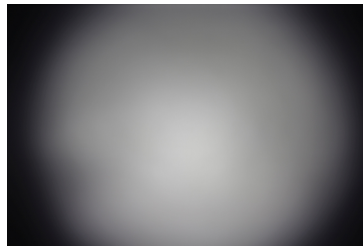**CREE LEDs**

|	
LED	XD16
FWHM / FWTM	40.0° / 61.0°
Efficiency	83 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

LUMILEDS
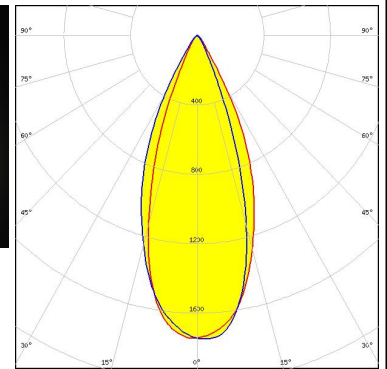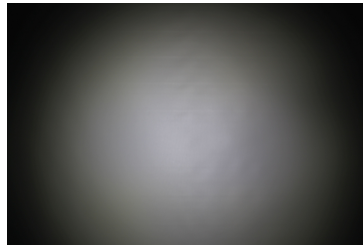
LED	LUXEON CZ
FWHM / FWTM	39.0° / 61.0°
Efficiency	92 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

LUMILEDS
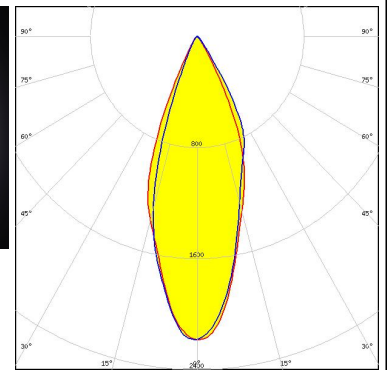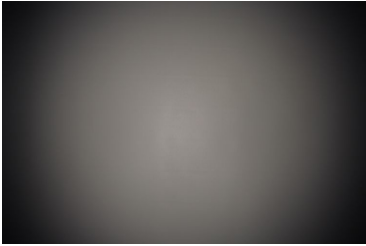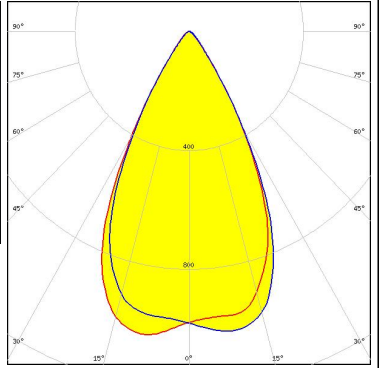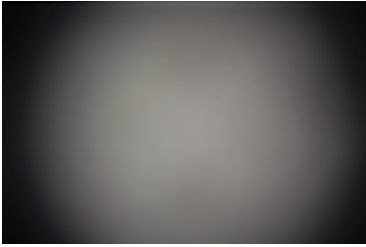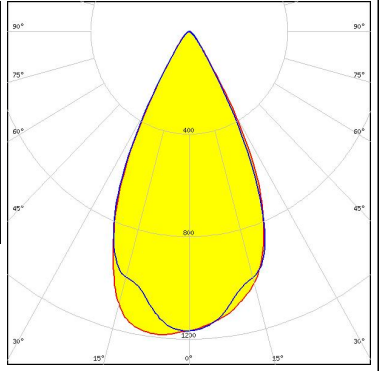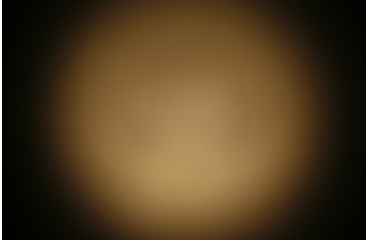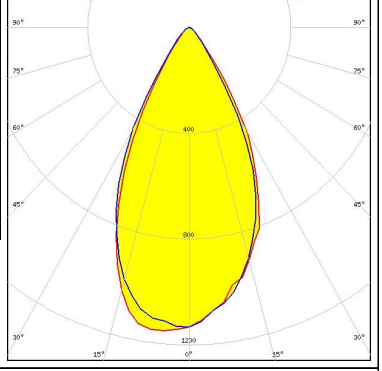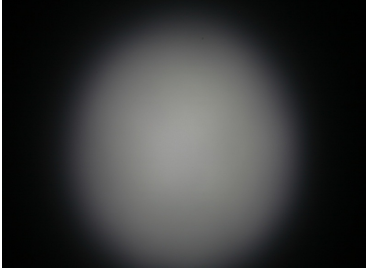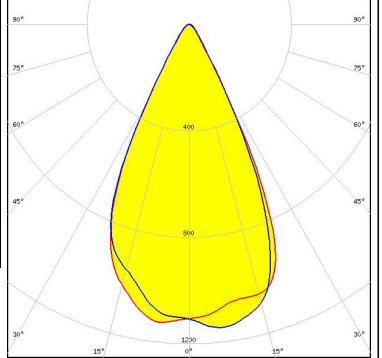
LED	LUXEON TX
FWHM / FWTM	49.0° / 68.0°
Efficiency	88 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

NICHIA
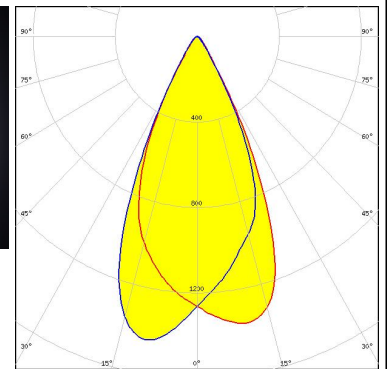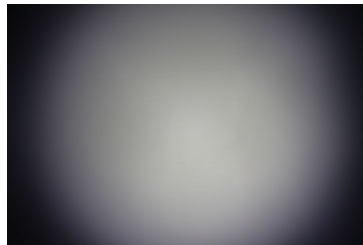
LED	NVSxx19B/NVSxx19C
FWHM / FWTM	52.0° / 70.0°
Efficiency	87 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

OPTICAL RESULTS (MEASURED):

NICHIA

LED	NWSx229A
FWHM / FWTM	55.0° / 77.0°
Efficiency	84 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

OSRAM Opto Semiconductors

LED	OSLON Square EC
FWHM / FWTM	52.0° / 72.0°
Efficiency	85 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

OSRAM Opto Semiconductors

LED	OSLON Square EC
FWHM / FWTM	50.0° / 73.0°
Efficiency	84 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

OSRAM Opto Semiconductors

LED	OSLON SSL 150
FWHM / FWTM	53.0° / 70.0°
Efficiency	84 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

OPTICAL RESULTS (MEASURED):

OSRAM Opto Semiconductors

LED	SFH 4170S
FWHM / FWTM	38.0° / 61.0°
Efficiency	%
LEDs/each optic	1
Light colour	IR
Required components:	

OSRAM Opto Semiconductors

LED	SFH 4180S
FWHM / FWTM	34.0° / 60.0°
Efficiency	%
LEDs/each optic	1
Light colour	IR
Required components:	

OSRAM Opto Semiconductors

LED	SFH 4715S
FWHM / FWTM	36.0° / 80.0°
Efficiency	%
LEDs/each optic	1
Light colour	White
Required components:	

SEOUL SEMICONDUCTOR

LED	Z5M3
FWHM / FWTM	50.0° / 72.0°
Efficiency	86 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

OPTICAL RESULTS (SIMULATED):

CREE LEDs
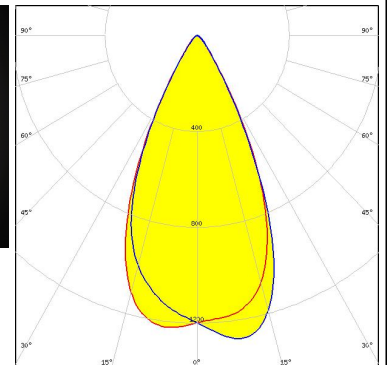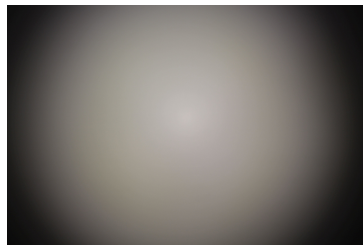
LED	XB-D
FWHM / FWTM	40.0° / 64.0°
Efficiency	89 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

CREE LEDs
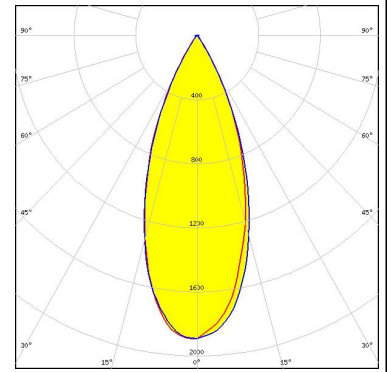
LED	XE-G
FWHM / FWTM	54.0° / 66.0°
Efficiency	92 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

CREE LEDs
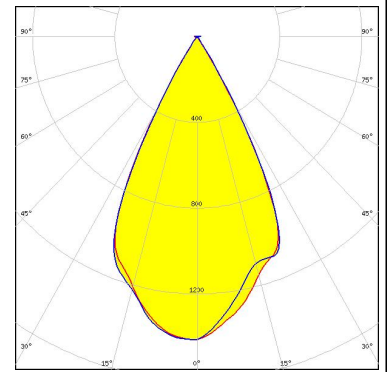
LED	XQ-E HI
FWHM / FWTM	42.0° / 64.0°
Efficiency	92 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
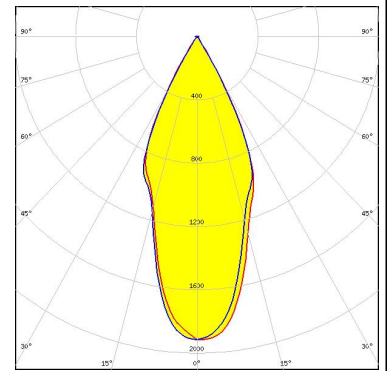
LUMILEDS

LED	LUXEON C
FWHM / FWTM	44.0° / 65.0°
Efficiency	91 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
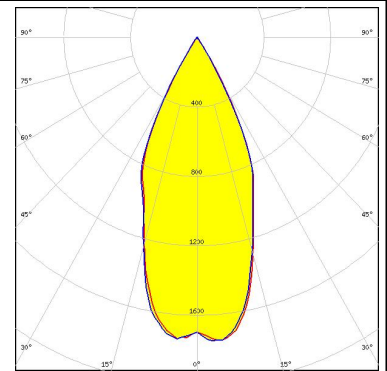
OPTICAL RESULTS (SIMULATED):

LUMILEDS

LED	LUXEON IR Compact
FWHM / FWTM	51.0° / 64.0°
Efficiency	84 %
LEDs/each optic	1
Light colour	White
Required components:	

LUMILEDS

LED	LUXEON Rubix
FWHM / FWTM	47.0° / 68.0°
Efficiency	93 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
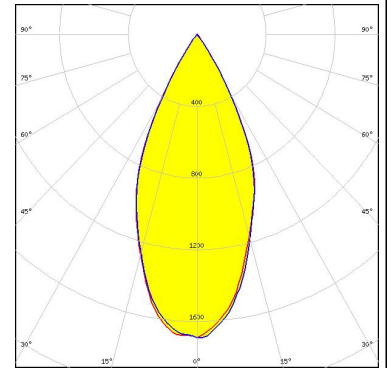
LUMILEDS

LED	LUXEON Rubix
FWHM / FWTM	47.0° / 68.0°
Efficiency	93 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	Blue
Required components:	
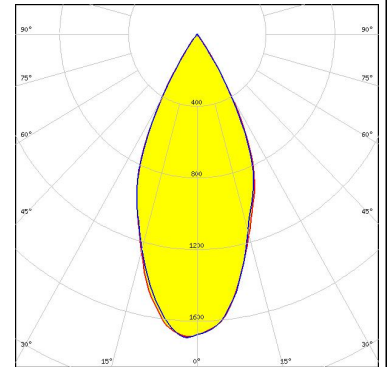
LUMILEDS

LED	LUXEON Rubix
FWHM / FWTM	45.0° / 68.0°
Efficiency	93 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	Red
Required components:	
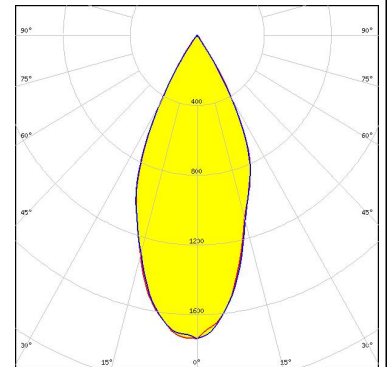
OPTICAL RESULTS (SIMULATED):

LUMILEDS

LED	LUXEON Z ES
FWHM / FWTM	43.0° / 62.0°
Efficiency	93 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
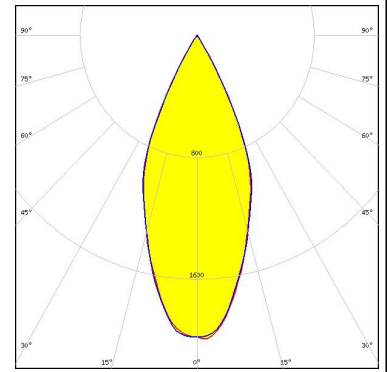
NICHIA

LED	NCSxE17A
FWHM / FWTM	29.0° / 56.0°
Efficiency	90 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
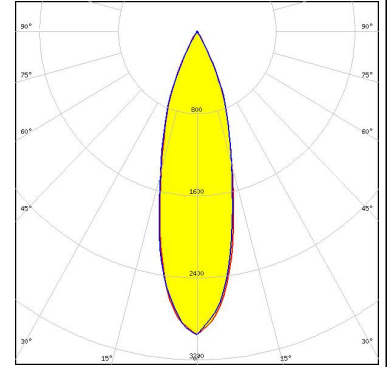
OSRAM Opto Semiconductors

LED	SFH 4770S
FWHM / FWTM	32.0° / 61.0°
Efficiency	88 %
LEDs/each optic	1
Light colour	White
Required components:	

OSRAM Opto Semiconductors

LED	Synios P2720 1 mm
FWHM / FWTM	31.0° / 60.0°
Efficiency	92 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
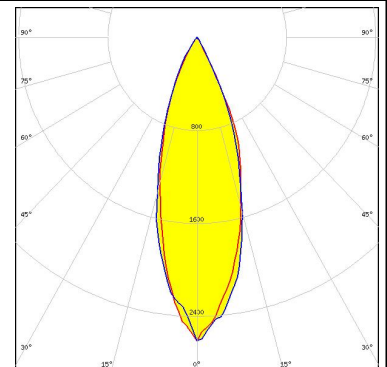
OPTICAL RESULTS (SIMULATED):

OSRAM Opto Semiconductors

LED	Synios P2720 1/2 mm
FWHM / FWTM	30.0° / 58.0°
Efficiency	92 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
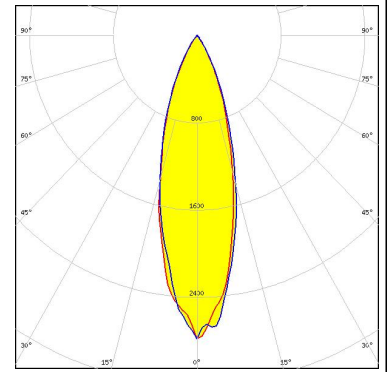
OSRAM Opto Semiconductors

LED	Synios P2720 1/4 mm
FWHM / FWTM	31.0° / 60.0°
Efficiency	92 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
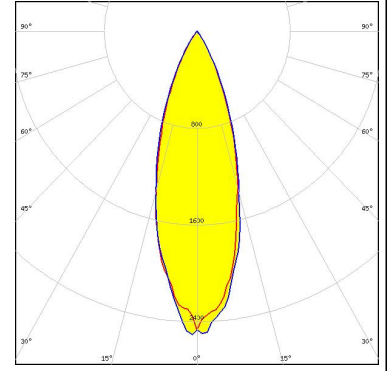
SAMSUNG

LED	LH181B
FWHM / FWTM	43.0° / 61.0°
Efficiency	93 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	