TINA2-W

~45° wide beam optimized for CREE XP-E. Assembly with holder and installation tape.



TECHNICAL SPECIFICATIONS:

Dimensions	Ø 16 mm
Height	9.5 mm
Fastening	tape, pin
Colour	black
Box size	
Box weight	0 kg
Quantity in Box	4140 pcs
ROHS compliant	yes

MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour
TINA2-W-XP	Lens	PMMA	clear
TINA2-HLD-BLK	Holder	PC	black
TINA-TAPE3	Tape	PU tape	black

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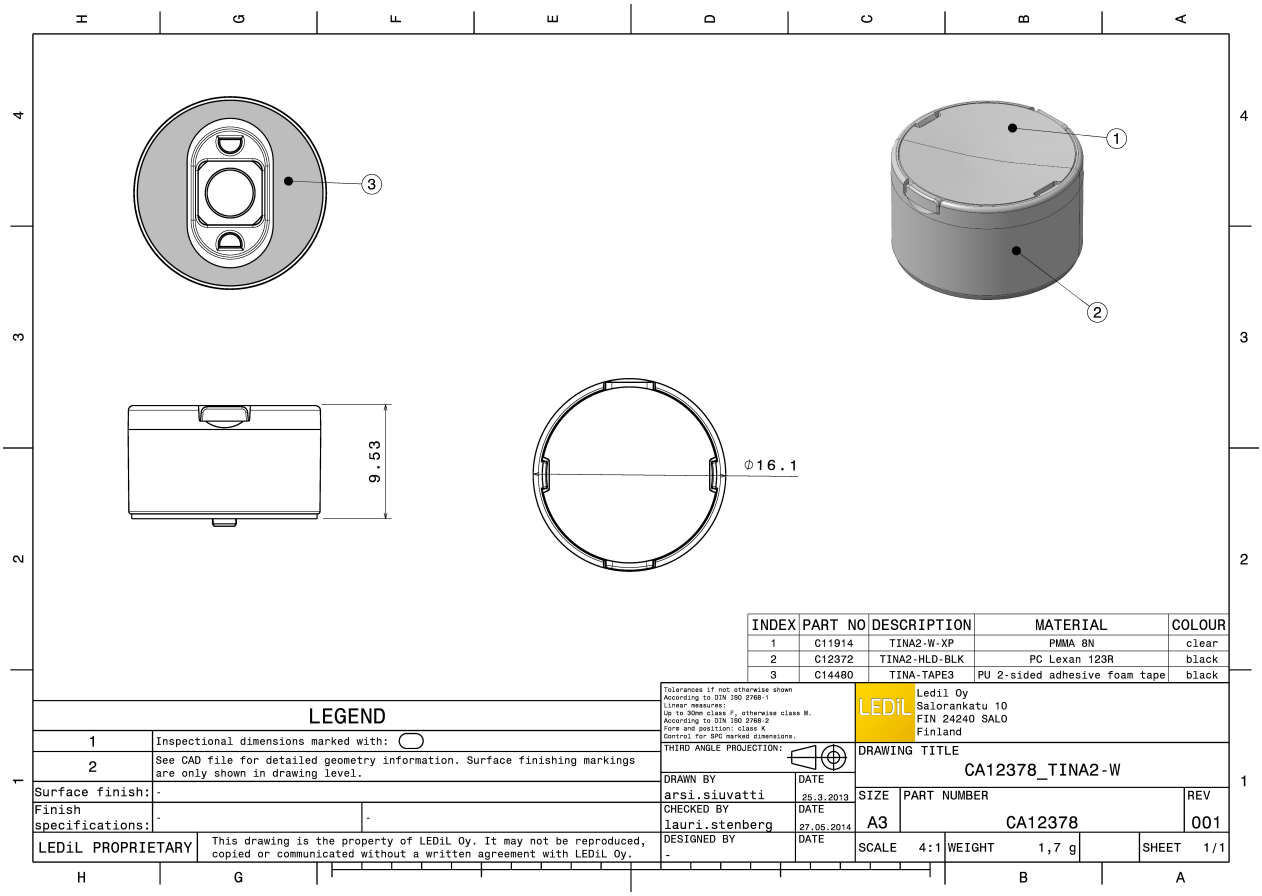

INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	C11914	TINA2-W-XP	PMMA 8N	clear
2	C12372	TINA2-HLD-BLK	PC Lexan 123R	black
3	C14480	TINA-TAPE3	PU 2-sided adhesive foam tape	black

LEGEND	
1	Inspectional dimensions marked with: ⬭
2	See CAD file for detailed geometry information. Surface finishing markings are only shown in drawing level.
Surface finish:	-
Finish specifications:	- / -
LEDiL PROPRIETARY	This drawing is the property of LEDiL Oy. It may not be reproduced, copied or communicated without a written agreement with LEDiL Oy.

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
Control for SPC marked dimensions.

THIRD ANGLE PROJECTION:

DRAWN BY	arsi.siuvatti	DATE 25.3.2013
CHECKED BY	lauri.stenberg	DATE 27.05.2014
DESIGNED BY	-	DATE

LEDiL
Ledil Oy
Salorankatu 10
FIN 24240 SALO
Finland

DRAWING TITLE
CA12378_TINA2-W

SIZE	PART NUMBER	REV
A3	CA12378	001

SCALE 4:1 | WEIGHT 1,7 g | SHEET 1/1

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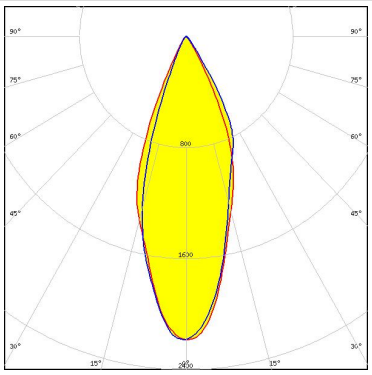
PHOTOMETRIC DATA (MEASURED):

LUMILEDS

LED	LUXEON CZ
FWHM	39.0°
Efficiency	92 %
Peak intensity	2.200 cd/lm
Required components:	

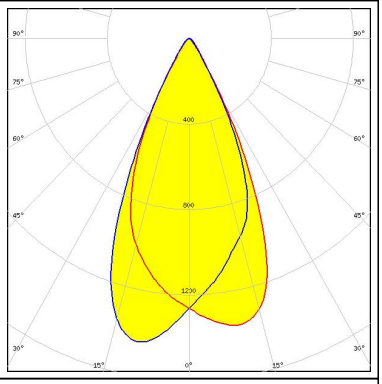




LUMILEDS

LED	LUXEON TX
FWHM	49.0°
Efficiency	88 %
Peak intensity	1.550 cd/lm
Required components:	

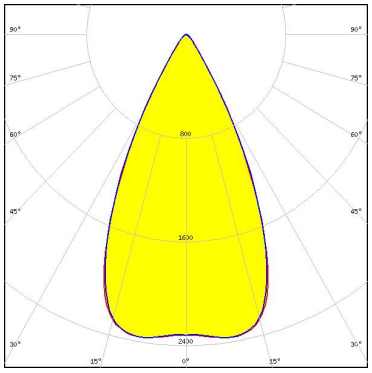




NICHIA

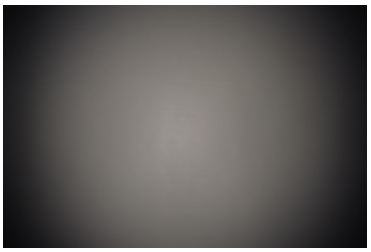
LED	NVSxx19B/NVSxx19C
FWHM	52.0°
Efficiency	87 %
Peak intensity	1.400 cd/lm
Required components:	

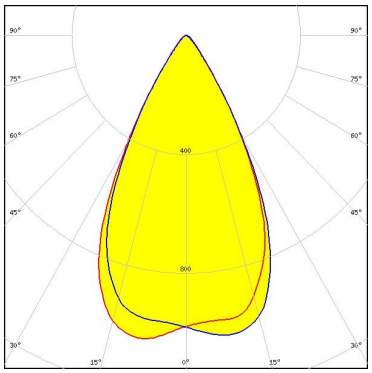




NICHIA

LED	NWSx229A
FWHM	55.0°
Efficiency	84 %
Peak intensity	1.000 cd/lm
Required components:	





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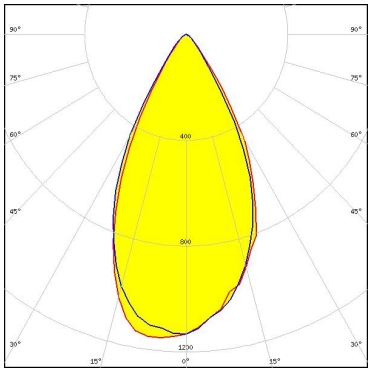
PHOTOMETRIC DATA (MEASURED):

OSRAM
Opto Semiconductors

LED	Oslon Square EC
FWHM	50.0°
Efficiency	84 %
Peak intensity	1.100 cd/lm
Required components:	

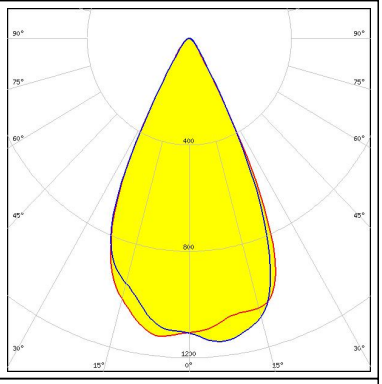




OSRAM
Opto Semiconductors

LED	Oslon SSL 150
FWHM	53.0°
Efficiency	85 %
Peak intensity	1.200 cd/lm
Required components:	

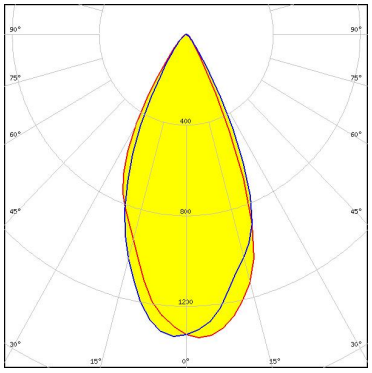




OSRAM
Opto Semiconductors

LED	Oslon SSL 80
FWHM	49.0°
Efficiency	86 %
Peak intensity	1.300 cd/lm
Required components:	





OSRAM
Opto Semiconductors

LED	SFH 4715S
FWHM	36.0°
Efficiency	%
Peak intensity	cd/lm
Required components:	

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PHOTOMETRIC DATA (MEASURED):

OSRAM
Opto Semiconductors

LED	SFH 4725S
FWHM	38.0°
Efficiency	%
Peak intensity	cd/lm

Required components:

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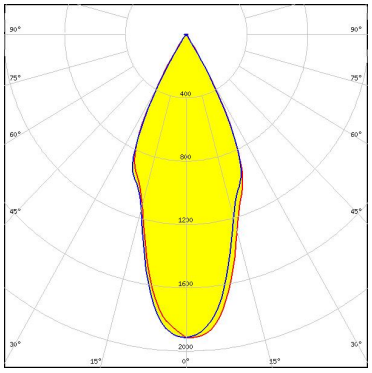
PHOTOMETRIC DATA (SIMULATED):

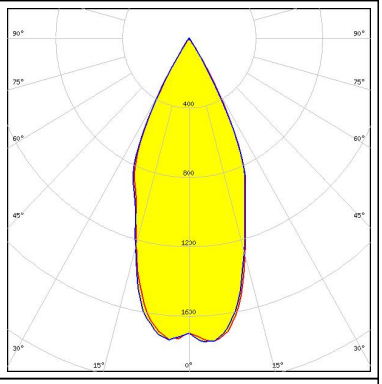
CREE

LED	XQ-E HI
FWHM	42.0°
Efficiency	92 %
Peak intensity	1.900 cd/lm
Required components:	



LUMILEDS

LED	LUXEON C
FWHM	44.0°
Efficiency	91 %
Peak intensity	1.800 cd/lm
Required components:	



LUMILEDS

LED	LUXEON IR Compact
FWHM	51.0°
Efficiency	84 %
Peak intensity	0.000 cd/lm
Required components:	

OSRAM
Opto Semiconductors

LED	SFH 4770S
FWHM	32.0°
Efficiency	88 %
Peak intensity	cd/lm
Required components:	

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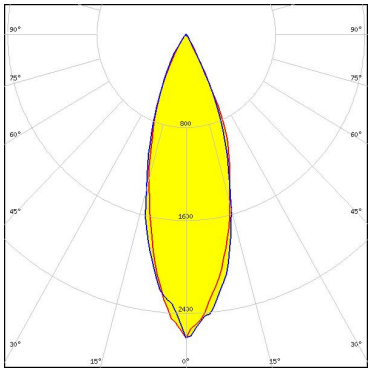
PHOTOMETRIC DATA (SIMULATED):

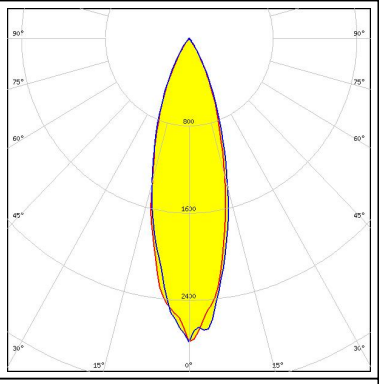
OSRAM
Opto Semiconductors

LED	Synios P2720 1 mm
FWHM	31.0°
Efficiency	92 %
Peak intensity	2.670 cd/lm
Required components:	



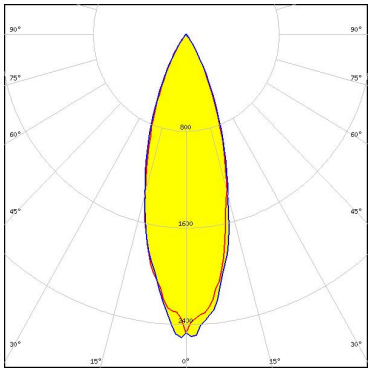
OSRAM
Opto Semiconductors

LED	Synios P2720 1/2 mm
FWHM	30.0°
Efficiency	92 %
Peak intensity	2.790 cd/lm
Required components:	



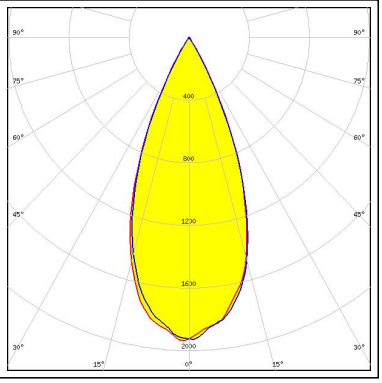
OSRAM
Opto Semiconductors

LED	Synios P2720 1/4 mm
FWHM	31.0°
Efficiency	92 %
Peak intensity	2.590 cd/lm
Required components:	



SAMSUNG

LED	LH181B
FWHM	43.0°
Efficiency	93 %
Peak intensity	2.000 cd/lm
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.

PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

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