

TINA2-D

~16° diffused spot beam optimized for Nichia NCSxx19. Assembly with holder, installation tape and location pins.

SPECIFICATION:

Dimensions	Ø 16.1 mm
Height	9.3 mm
Fastening	tape, pin
ROHS compliant	yes ⓘ

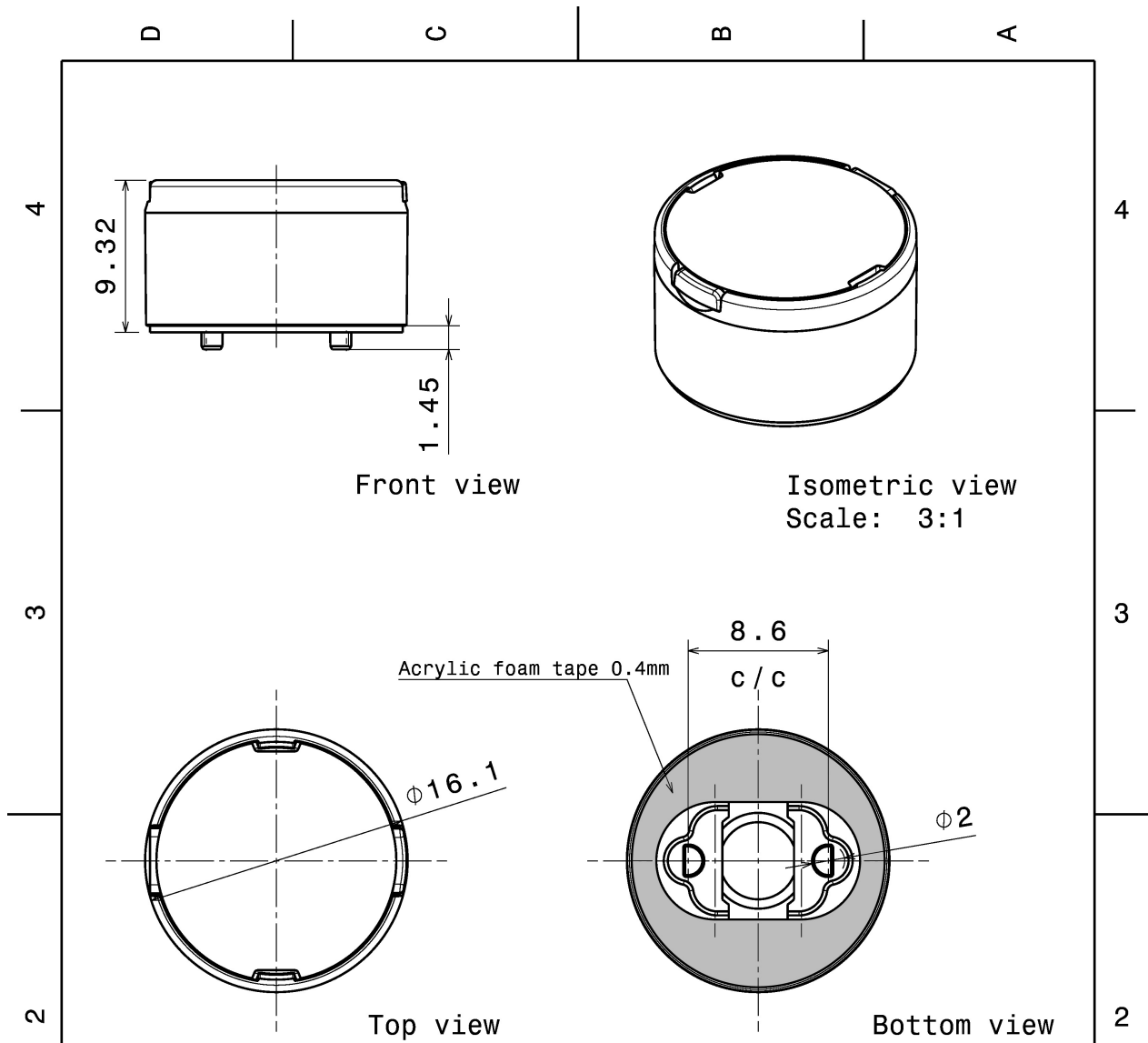


MATERIALS:

Component	Type	Material	Colour	Finish
TINA2-XP-D	Single lens	PMMA	clear	
TINA2-HLD-NCS19-BLK	Holder	PC	black	
TINA-TAPE3	Tape	Acrylic foam	black	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA11942_TINA2-D	Single lens	4140	230	230	0.0
» Box size: 451 x 241 x 298 mm					



INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	-	TINA2-lens	PMMA	clear
2	C11010	TINA2-HLD-NCS19-BLK	PC	black

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:

DRAWING TITLE
TINA2-NCS19 series

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SIZE	PART NUMBER
A4	-

SCALE	3:1	WEIGHT	1 g	SHEET	1/1
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See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):

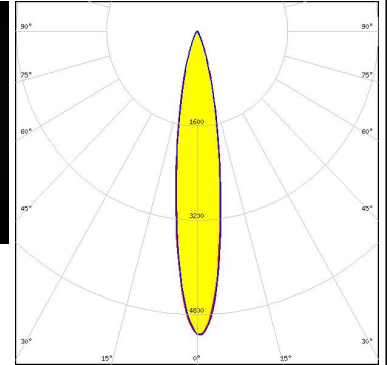
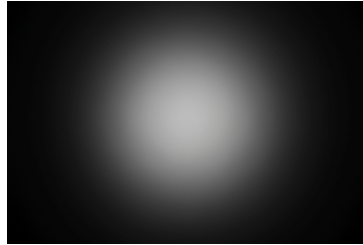


LED NCSxx19A
 FWHM / FWTM 14.0° / 43.0°
 Efficiency 92 %
 Peak intensity 7.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



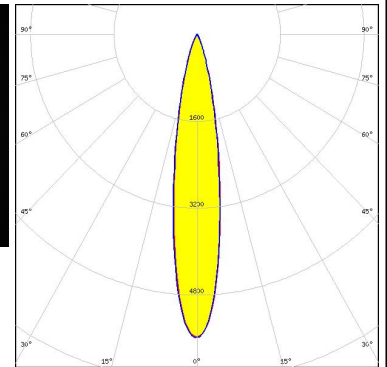
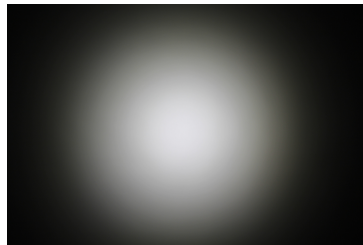
SAMSUNG

LED LH181A
 FWHM / FWTM 17.0° / 39.0°
 Efficiency 82 %
 Peak intensity 5.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

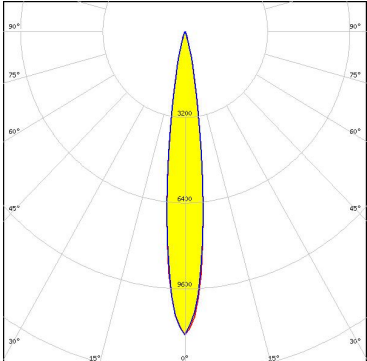
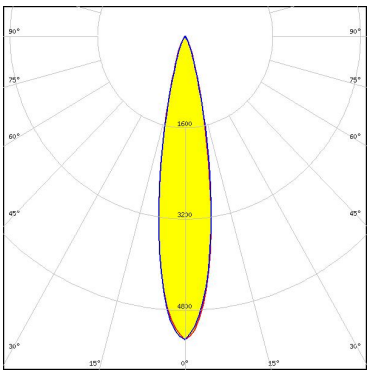
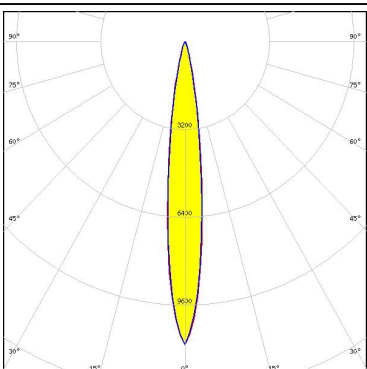


SAMSUNG

LED LH181B
 FWHM / FWTM 18.0° / 39.0°
 Efficiency 87 %
 Peak intensity 5.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (SIMULATED):

<p>NICHIA</p> <p>LED NVSxE21A FWHM / FWTM 14.0° / 28.0° Efficiency 90 % Peak intensity 11.3 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>NICHIA</p> <p>LED NVSxx19A FWHM / FWTM 20.0° / 39.0° Efficiency 88 % Peak intensity 5.3 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>OSRAM <small>Opto Semiconductors</small></p> <p>LED Duris E 2835 FWHM / FWTM 14.0° / 29.0° Efficiency 92 % Peak intensity 11 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>SEOUL SEMICONDUCTOR</p> <p>LED Z8Y15 FWHM / FWTM 13.0° / 25.0° Efficiency 91 % Peak intensity 14.3 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	