


TINA2-W

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

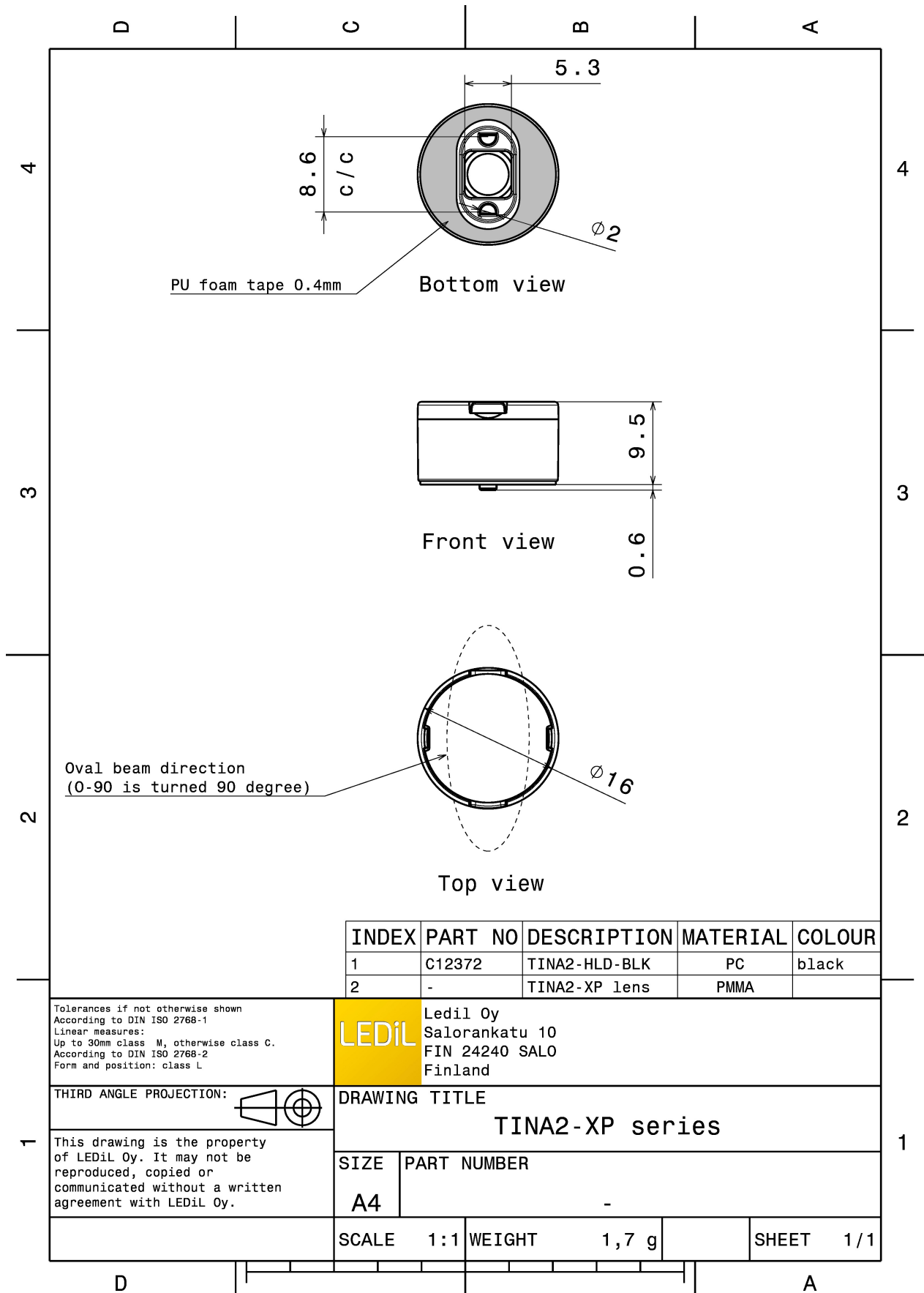
TECHNICAL SPECIFICATIONS:

Dimensions	Ø 16.0 mm
Height	9.5 mm
Fastening	tape, pin
Colour	black
Box size	
Box weight	8.3 kg
Quantity in Box	4140 pcs
ROHS compliant	yes 



MATERIAL SPECIFICATIONS:

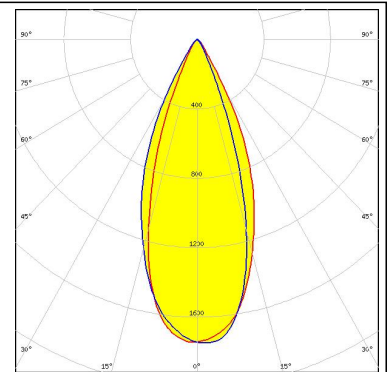
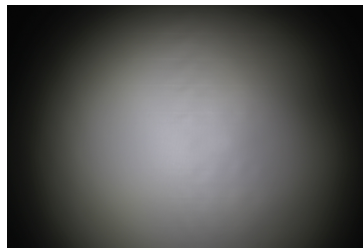
Component	Type	Material	Colour
TINA2-W-XP	Single lens	PMMA	clear
TINA2-HLD-BLK	Holder	PC	black
TINA-TAPE3	Tape	PU tape	black



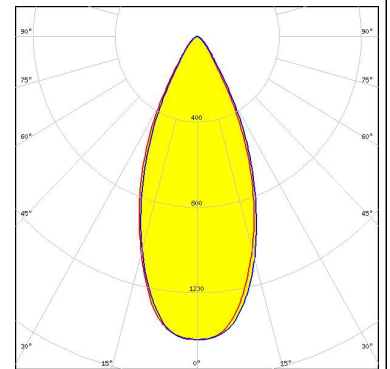
PHOTOMETRIC DATA (MEASURED):



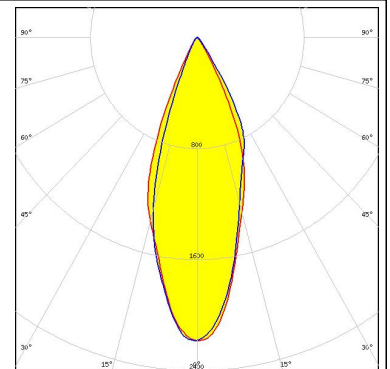
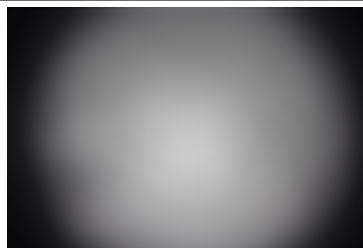
LED XD16
 FWHM 40.0°
 Efficiency 83 %
 Peak intensity 1.800 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



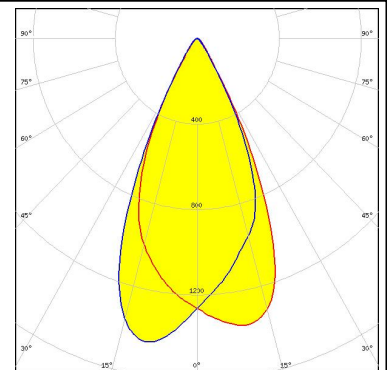
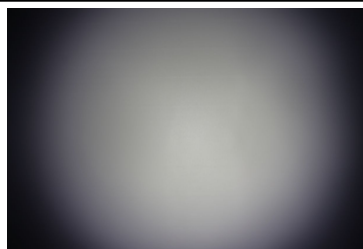
LED LUXEON 5050
 FWHM 44.0°
 Efficiency 89 %
 Peak intensity 1.400 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED LUXEON CZ
 FWHM 39.0°
 Efficiency 92 %
 Peak intensity 2.200 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



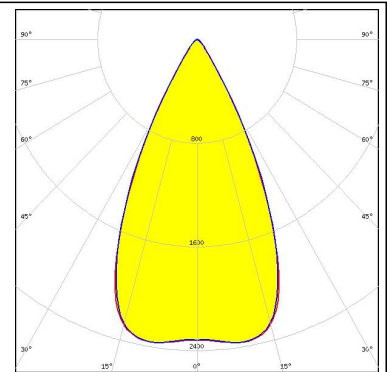
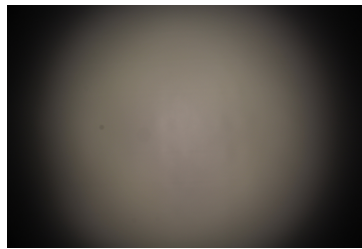
LED LUXEON TX
 FWHM 49.0°
 Efficiency 88 %
 Peak intensity 1.550 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



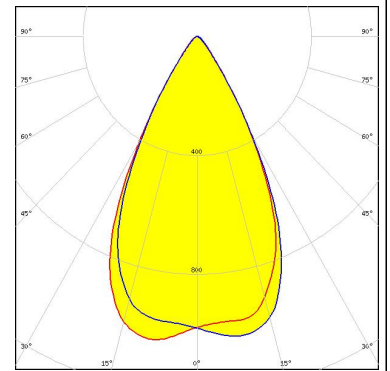
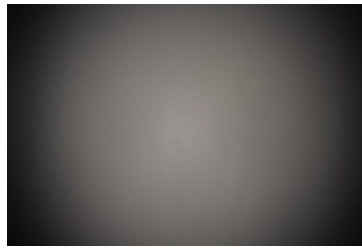
PHOTOMETRIC DATA (MEASURED):



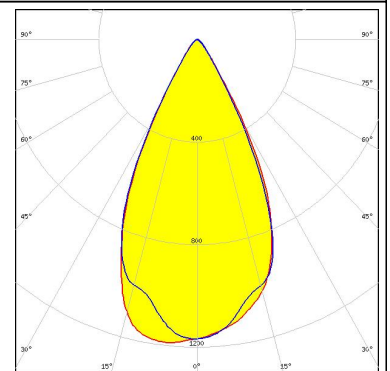
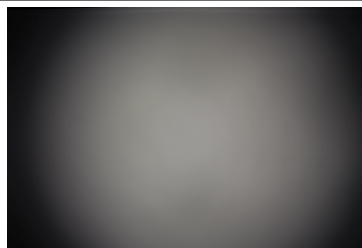
LED NVSxx19B/NVSxx19C
 FWHM 52.0°
 Efficiency 87 %
 Peak intensity 1.400 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



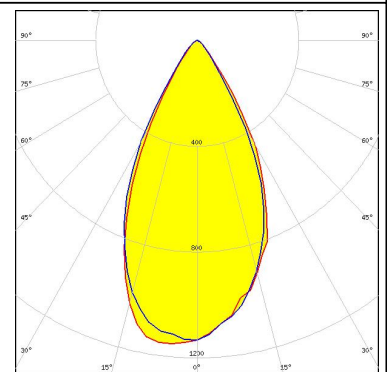
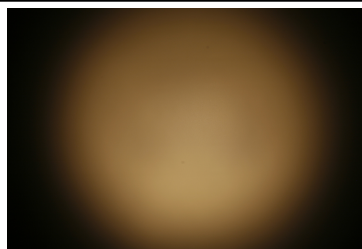
LED NWSx229A
 FWHM 55.0°
 Efficiency 84 %
 Peak intensity 1.000 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED OSLOM Square EC
 FWHM 52.0°
 Efficiency 85 %
 Peak intensity 1.200 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED OSLOM Square EC
 FWHM 50.0°
 Efficiency 84 %
 Peak intensity 1.100 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

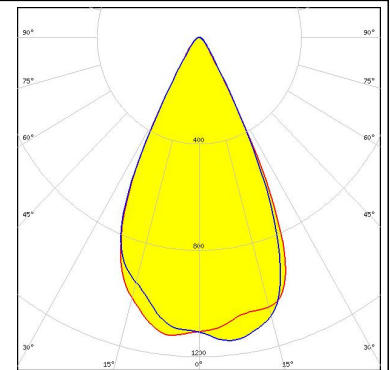


PHOTOMETRIC DATA (MEASURED):

OSRAM

Opto Semiconductors

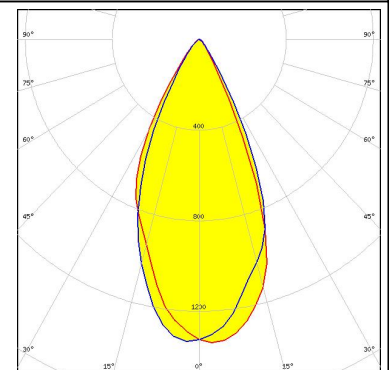
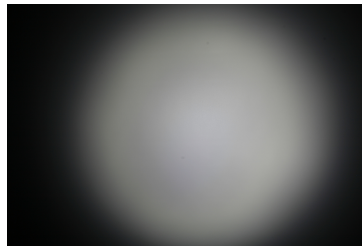
LED OSLON SSL 150
FWHM 53.0°
Efficiency 85 %
Peak intensity 1.200 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM

Opto Semiconductors

LED OSLON SSL 80
FWHM 49.0°
Efficiency 86 %
Peak intensity 1.300 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM

Opto Semiconductors

LED SFH 4715S
FWHM 36.0°
Efficiency %
Peak intensity cd/lm
LEDs/each optic 1
Light colour White
Required components:

OSRAM

Opto Semiconductors

LED SFH 4725S
FWHM 38.0°
Efficiency %
Peak intensity cd/lm
LEDs/each optic 1
Light colour White
Required components:

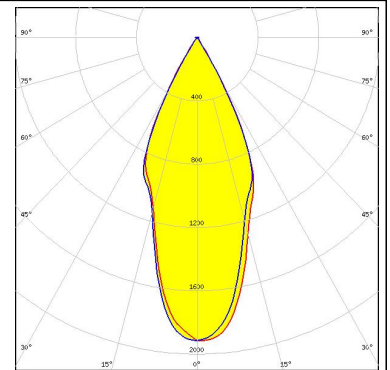
PHOTOMETRIC DATA (MEASURED):



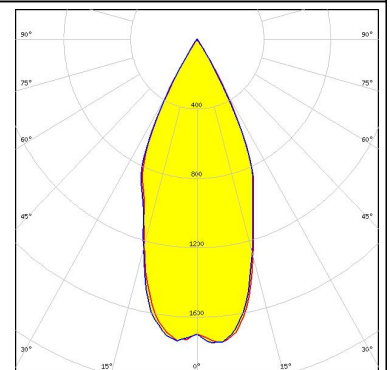
PHOTOMETRIC DATA (SIMULATED):



LED XQ-E HI
FWHM 42.0°
Efficiency 92 %
Peak intensity 1.900 cd/lm
LEDs/each optic 1
Light colour White
Required components:



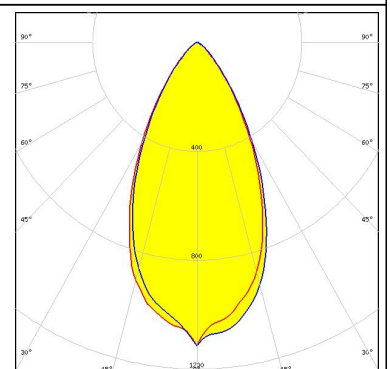
LED LUXEON C
FWHM 44.0°
Efficiency 91 %
Peak intensity 1.800 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED LUXEON IR Compact
FWHM 51.0°
Efficiency 84 %
Peak intensity 0.000 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED SFH 4715AS
FWHM 51.0°
Efficiency 91 %
Peak intensity 1.110 cd/lm
LEDs/each optic 1
Light colour White
Required components:

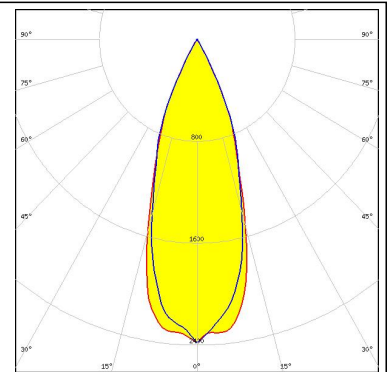


PHOTOMETRIC DATA (SIMULATED):

OSRAM

Opto Semiconductors

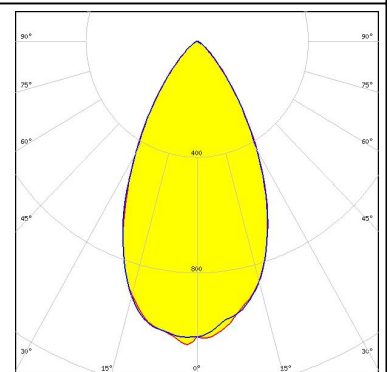
LED SFH 4715S
 FWHM 35.0°
 Efficiency 93 %
 Peak intensity 2.380 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM

Opto Semiconductors

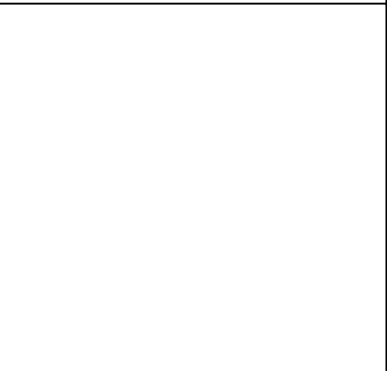
LED SFH 4716AS
 FWHM 54.0°
 Efficiency 92 %
 Peak intensity 1.050 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM

Opto Semiconductors

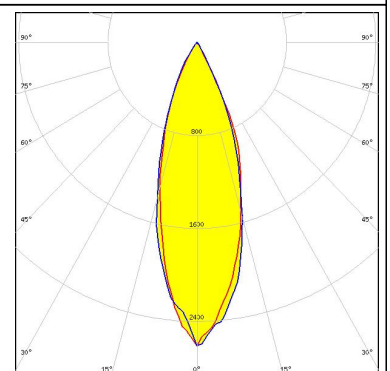
LED SFH 4770S
 FWHM 32.0°
 Efficiency 88 %
 Peak intensity cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM

Opto Semiconductors

LED Synios P2720 1 mm
 FWHM 31.0°
 Efficiency 92 %
 Peak intensity 2.670 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

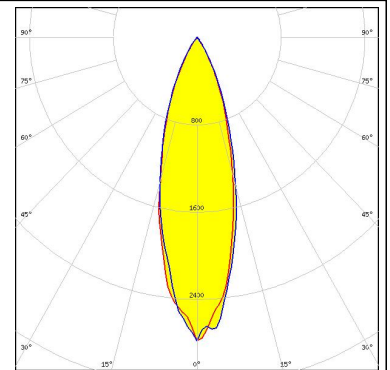


PHOTOMETRIC DATA (SIMULATED):

OSRAM

Opto Semiconductors

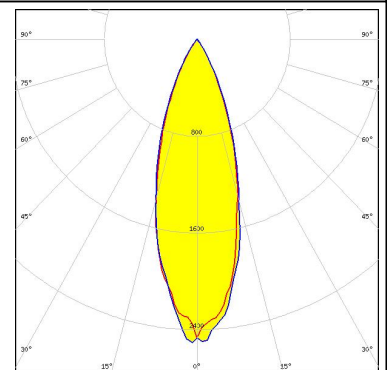
LED Synios P2720 1/2 mm
FWHM 30.0°
Efficiency 92 %
Peak intensity 2.790 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM

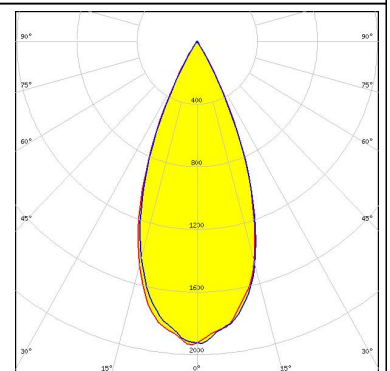
Opto Semiconductors

LED Synios P2720 1/4 mm
FWHM 31.0°
Efficiency 92 %
Peak intensity 2.590 cd/lm
LEDs/each optic 1
Light colour White
Required components:



SAMSUNG

LED LH181B
FWHM 43.0°
Efficiency 93 %
Peak intensity 2.000 cd/lm
LEDs/each optic 1
Light colour White
Required components:



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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LEDiL Oy

Joensuunkatu 13
FI-24240 SALO
Finland

LEDiL Inc.

228 West Page Street
Suite D
Sycamore IL 60178
USA

Local sales and technical support

[www.ledil.com/
where_to_buy](http://www.ledil.com/where_to_buy)

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