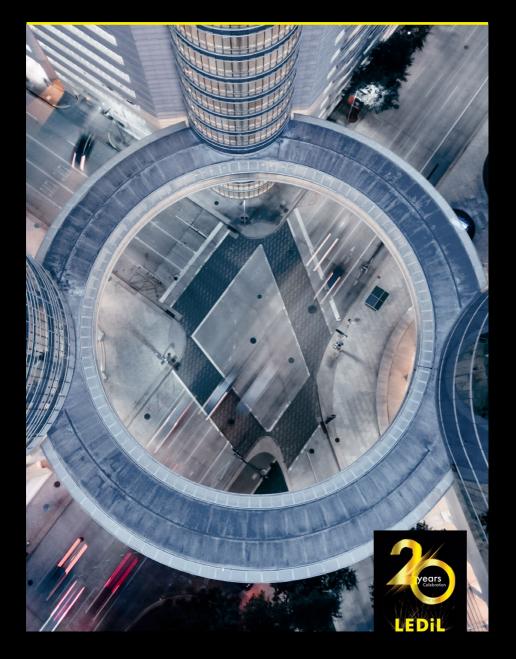
LEDiL



Why LEDiL?

The world is full of different roads and strict street lighting requirements. Add to this different LED package preferences and mechanical size limitations and possible combinations multiply exponentially. That is why LEDiL offers so many specific light distributions for road lighting to help you meet these requirements.

Whether it is a tunnel in Europe or road in Brazil, we offer solutions for virtually any LED model and type; from tiny CSPs to large COBs, while keeping the optics as future proof and modular as we can, so you can keep it simple and flexible.

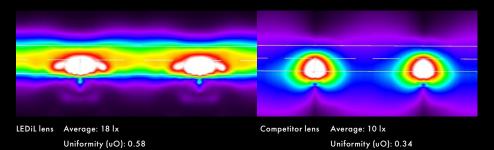
Make our optics the heart of your luminaire to optimise cost, efficacy and light distribution with great results.



Efficiency

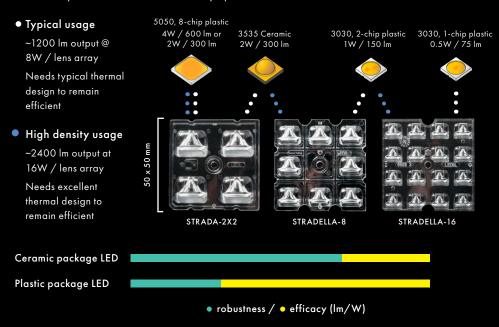
With the same installation and light output LEDiL light distribution is 80 % more efficient than competitior equivalent!

- Needs fewer LEDs, lenses and heat sinks
- Uses less energy for a faster return on investment



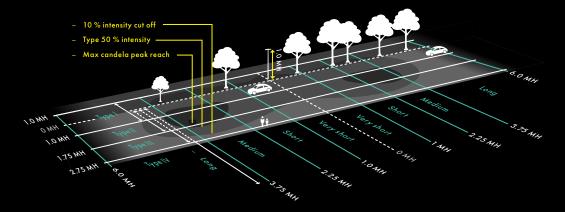
Freedom of design

Allows easy and flexible cost and efficacy optimization.



IESNA Type

IESNA Type is defined by position of highest candela intensity. IESNA Type classification is established by measuring where the bulk of the pattern falls on the grid.





T1-A IESNA Type I (short)



A-T Short IESNA Type II



T2-L IESNA Type II (long)



IESNA Type III



IESNA Type III

DWC2

ME3 🛨

IN1 *

DB

For ultra-long pole

uniformity fulfilling

distances with excellent

longitudinal luminance

EN13201 M-class req.

For EN13201 M-class

requirements with high

width ≤ the pole height

poles or where road

Floodlight beam for

the area between the railway tracks acc. to DB requirements

Asymmetric spot light

CAT-B *

and tilted poles

railway tracks according

Narrow catenary street

light beam optimized for EN13201 M-classes

Universal road light-

ing (Typ. IESNA Type III Medium)

DWC / T-DWC





Excellent longitudinal fulfilling EN13201 M-class requirements

NHS Narrow beam, minimal house side



XW Wide beam



Narrow forward throw beam optimized for European tunnels



CAT * Catenary street light EN13201 M-classes



IESNA Typel (medium) beam for European

IESNA Type II

IESNA Type IV

DNW

ME-N *

LM1 🛨

Designed for high

poles, fulfilling EN13201 M-class

For EN13201 M-class

requirements where

road width ≥ the pole

pedestrian crossings,

Forward throw beam

for area lighting

C / C-STP

. walkwavs

For area and street

parks and pedestrian

lighting such as

Soft wide beam with

good illuminance

(medium)





T2-S IESNA Type II (short)

IESNA Type II

T4B / T4-B

DN / T-DN

For area lighting with

shorter illumination

ME-WIDE1 *

Fulfilling EN13201

added house side

backlight

LM2 🛨

M-class requirements,

For EN13201 M-class

requirements where

Double asymm.,

pedestrian crossings,

road width ≤ the pole

IESNA Type IV, for



IESNA Type III

IESNA Type V

(medium)

T2-B

IESNA Type II,

minimized house side

T3B / T3-B IESNA Type III (medium), minimized backlight

T2-C/C2/C3

IESNÁ Type II, added

house side backlight







DW / T-DW Soft wide beam with



Wide light distribution, staggered pole setup



good illuminance

ME-WIDE2 * For staggered pole setups fulfilling EN13201 M-class



MEW * Extremely low glare fulfilling EN13201 M-class requirements for wet road surfaces



For EN13201 M-class

road width > the pole

requirements where

IW1 🛨









throw beam for area





Forward throw beam



FΝ



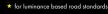
B2 / B2-STP For area lighting and applications demand-



For symmetrical tunnel

lighting and parking

For canopy lighting with batwing light distribution, suitable for symmetrical tunnel lighting



STRADA-IP-24



T3-M

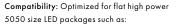
NEW T4-B

Ingress protected lens array for flat 5050 size LEDs to boost energy efficiency.

- OSRAM DURIS S8 - OSRAM OSCONIQ S 5050

T2-M

- Industry standard redefined same dimensions and screw holes as the 2X6 lens family
- High performing excellent beam quality built on the STRADA legacy
- Versatile Extreme efficiency when underdriving or extreme output at max power



- CREE J/JR5050 - LUMILEDS LUXEON
- 5050 square - SAMSUNG LH502C - NICHIA 48x series - SEOUL DC 5050 6V

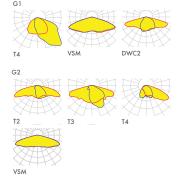


Ø90 mm ingress protected silicone lenses.

Compatibility:

STELLA

- G1: T4 and DWC2, up to 23 mm LES size.
 - VSM up to 30 mm LES size.
- G2: Optimized for 23 mm LES size.
 - Compatible with up to 30 mm LES size.
 - Same footprint as with original STELLA, but with more space inside for Zhaga compliant COB connectors.
 - 3rd party connectors available from: B+W, BJB, TE and IDEAL

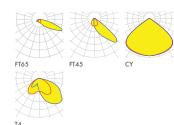




JENNY

 35×35 mm single lenses and 8X1 arrays made from silicone.

Compatibility: Up to 7070 size LED packages.











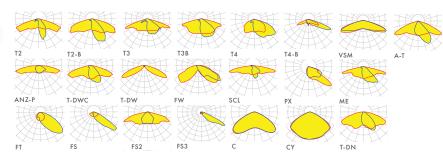
STRADA

The most versatile modular product family especially designed for street lighting.



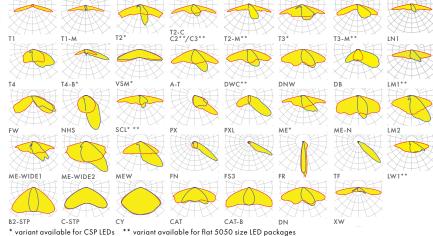


- 25 x 25 mm Compatibility: up to 7070 size LED packages





- 50 x 50 mm Compatibility: up to 5050 size LED packages





IP-2X6

- 173 x 71.4 mm
- ingress protected Compatibility:

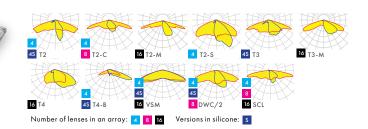
up to 5050 size LED packages

MX/S

- 90 x 90 mm
- ingress protected

Compatibility:

- MX: up to 7070 size LED packages
- MXS: also for up to 9 mm COBs
- 8MX: for flat 5050 size LED packages
- 16MX: for CSP LEDs



STRADELLA

Cost-efficient product family of single lenses and dense lens arrays.





SINGLE

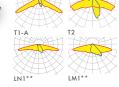
- 14 x 14 mm







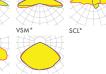


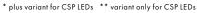




Compatibility: All STRADELLA versions: For up to 3535 size mid- and high-power LEDs.



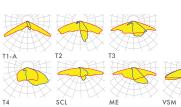




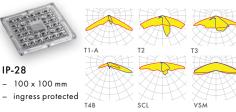


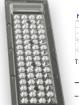
- ingress protected T2

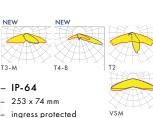












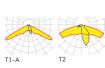
SITARA

Cost-efficient product family of single lenses and 2X2 lens arrays with ingress protection.

Compatibility: Optimized for high-power 5050 size LED packages.



- 14 x 14 mm



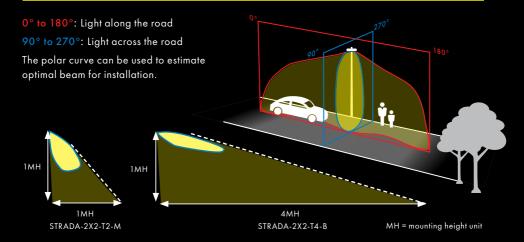






PATENTED

How to read polar curves



Technical support

- Simulations to show optic performance in real applications
- Guides and tips for installations
- Thermal analysis for luminaire designs

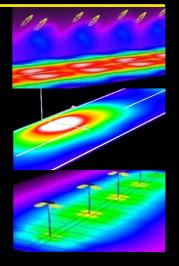
Contact our tech support experts:

Global

tech.support@ledil.com

North America

tech.support.us@ledil.com





Ledil Oy (Headquarters) Joensuunkatu 13 FI-24100 SALO Finland Ledil Inc. 228 West Page Street Suite D Sycamore IL 60178 USA Ledil Optics Technology (Shenzhen) Ltd. #405, Block B, ShenZhen Casic Motor Building, No. 7 LangShan #2 Road, Hi-Tech Ind. Park(N.), Nanshan District, Shenzhen, 518057
P.R.China

The information contained herein is the property of Ledil Oy, Joensuunkatu 13, FI-24100 SALO, Finland, and is subject to change without prior notice. Please visit www.ledil.com for additional information, such as the latest photometric files, 3D mechanical models, and application notes relating to handling, gluing and taping. LEDIL products are IPR protected.