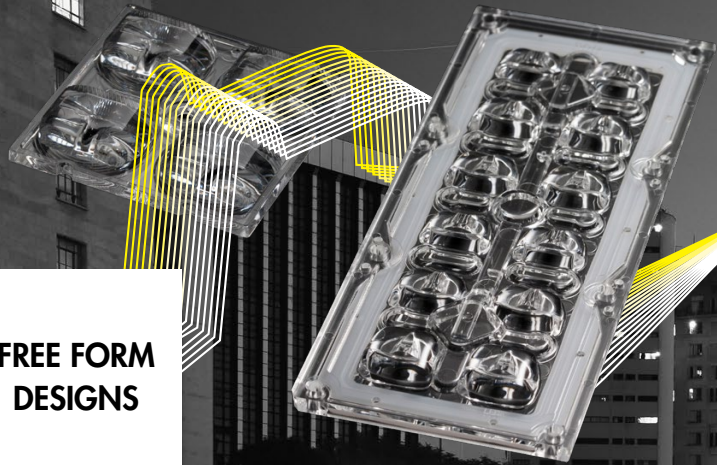


LEDiL®

GUIDE FOR STREET LIGHTING OPTICS





AROUND
50
BEAMS FOR
STREETS

FREE FORM
DESIGNS

EXTENSIVE
CUSTOMER
SUPPORT

HIGH
QUALITY

PATENTED
INNOVATIONS

GLOBAL
SOLUTIONS

MODULARITY

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 optimize cost,
efficacy and light distribution
with great results!

LIGHT
THAT IS
RIGHT

LEDiL[®]

FREEDOM OF DESIGN

● Typical usage
~1200 lm output @ 8W / lens array
Needs typical thermal design to remain efficient

● High density usage
~2400 lm output at 16W / lens array
Needs excellent thermal design to remain efficient

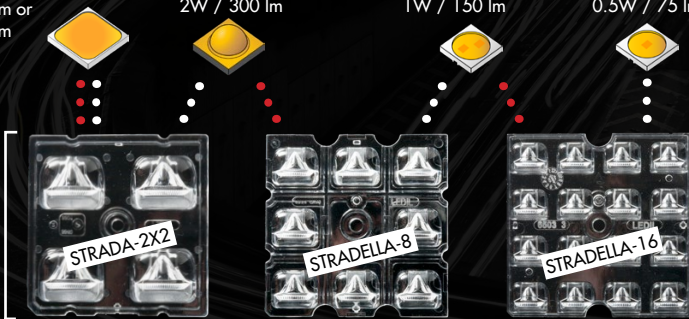
5050, 8-chip plastic
4W / 600 lm or
2W / 300 lm

3535 Ceramic
2W / 300 lm

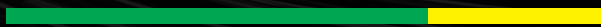
3030, 2-chip plastic
1W / 150 lm

3030, 1-chip plastic
0.5W / 75 lm

50 x 50
mm



Ceramic package LED



Plastic package LED



● Robustness / ● Efficacy (lm/W)

ALLOWS EASY AND FLEXIBLE COST AND EFFICACY OPTIMIZATION

STREET LIGHTING WITH LEDiL

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

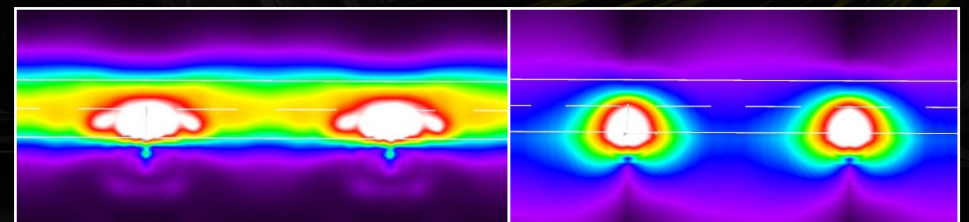
- Needs fewer LEDs, lenses and heat sinks
- Uses less energy for a faster return on investment

LEDiL lens

Average: 18 lx
Uniformity (uO): 0.58

Competitor lens

Average: 10 lx
Uniformity (uO): 0.34

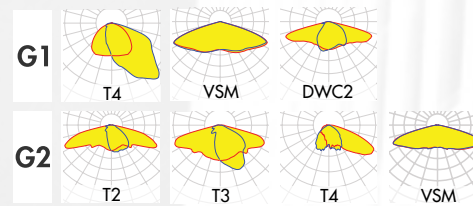




★ for luminance based road standards

STELLA

Ø90 mm ingress protected silicone lenses



COMPATIBILITY

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 Stucchi



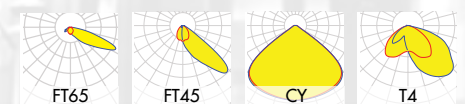
35 x 35 mm single lenses and 8X1 arrays made from silicone.

JENNY



COMPATIBILITY

Up to 7070 size LED packages.



STRADA

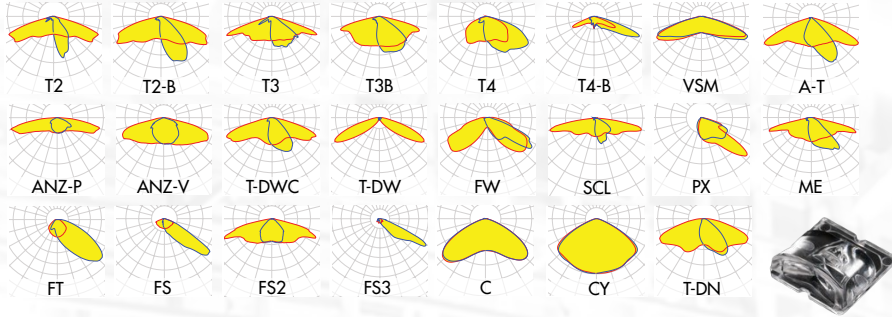
PATENTED

The most versatile modular product family especially designed for street lighting

SQ

25 x 25 mm

up to 7070 size LED packages



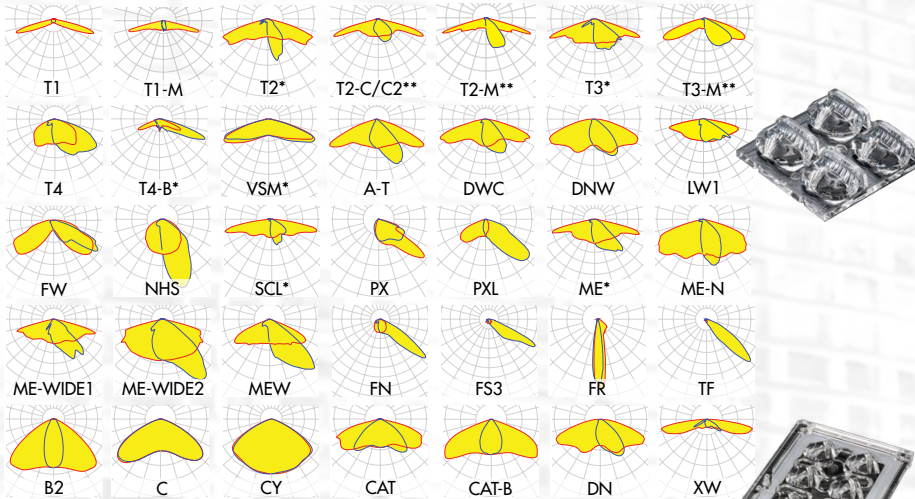
2X2

50 x 50 mm

up to 5050 size LED packages

*variant available for CSP LEDs

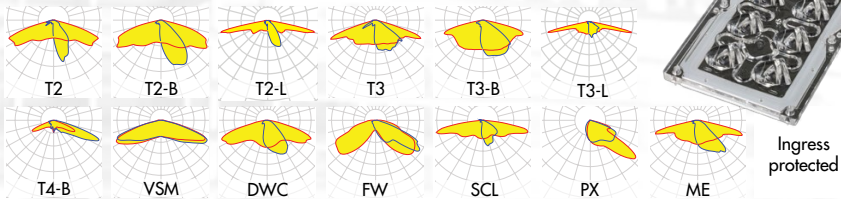
**variant available for flat 5050 size LED packages



IP-2X6

173 x 71.4 mm

up to 5050 size LED packages

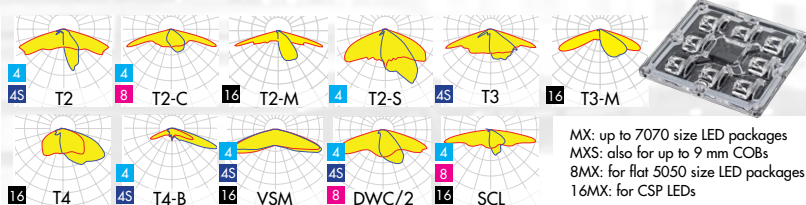


MX/S

90 x 90 mm

ingress protected

Number of lenses in an array:
4 8 16
versions in silicone S



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

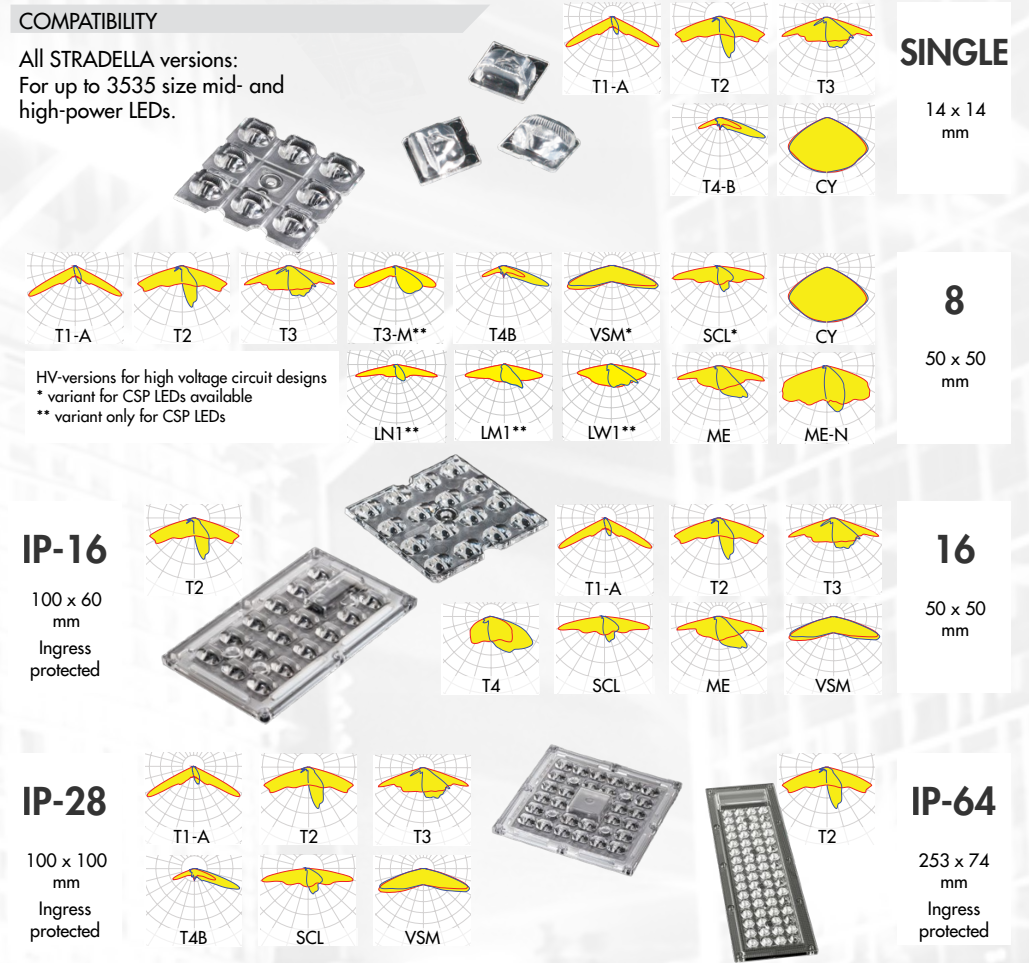
Cost-efficient product family of single lenses and dense lens arrays

PATENTED

STRADELLA

COMPATIBILITY

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



IP-16

100 x 60 mm
Ingress protected

IP-28

100 x 100 mm
Ingress protected

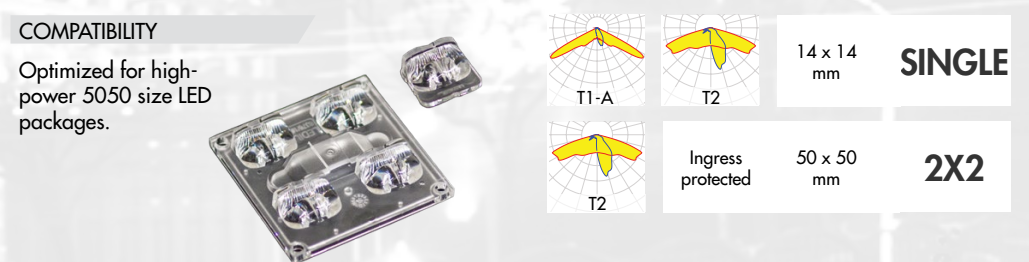
Cost-efficient product family of single lenses and 2X2 lens arrays with ingress protection

PATENTED

SITARA

COMPATIBILITY

Optimized for high-power 5050 size LED packages.



SINGLE

14 x 14 mm

8

50 x 50 mm

16

50 x 50 mm

IP-64

253 x 74 mm
Ingress protected

SINGLE

14 x 14 mm

2X2

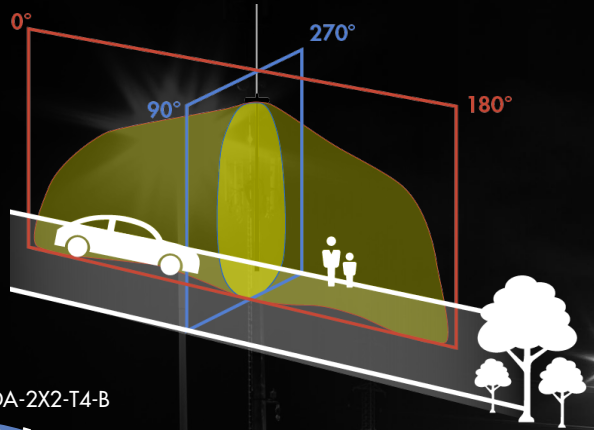
50 x 50 mm

HOW TO READ POLAR CURVES

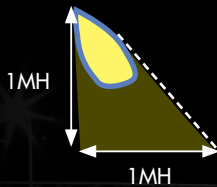
0° to 180° (red):
Light along the road

90° to 270° (blue):
Light across the road

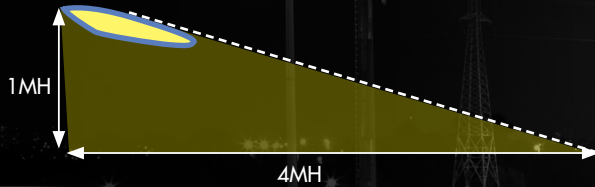
The polar curve can be used
to estimate optimal beam for
installation



STRADA-2X2-T2-M



STRADA-2X2-T4-B



MH = Mounting height unit

TECHNICAL SUPPORT

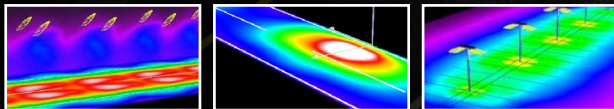
Simulations to show optic
performance in real applications

Guides and tips for installations

Thermal analysis for luminaire designs

Free for all our customers

tech.support@ledil.com (GLOBAL)
tech.support.us@ledil.com (NORTH AMERICA)
tech.support.rus@ledil.com (RUSSIA)



LEDiL®

Ledil Oy
Joensuunkatu 13
24100 SALO
FINLAND

Ledil, Inc.
228 West Page Street Suite D
Sycamore IL 60178
USA

Ledil Optics Technology (Shenzhen) Co., Ltd.
405, Block B
Casic Motor Building
Shenzhen 518057
P.R.CHINA

www.ledil.com

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.