

# LEDiL®

GUIDE FOR STREET LIGHTING OPTICS



AROUND  
**50**  
BEAMS FOR  
STREETS

EXTENSIVE  
CUSTOMER  
SUPPORT

FREE FORM  
DESIGNS

HIGH  
QUALITY

PATENTED  
INNOVATIONS

GLOBAL  
SOLUTIONS

MODULARITY

## 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  
Greater robustness

Plastic package LED  
Lower robustness

● System cost / ● Efficacy (lm/W)

ALLOWS EASY AND FLEXIBLE COST AND EFFICACY OPTIMIZATION

## 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®**

## STREET LIGHTING WITH LEDiL

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

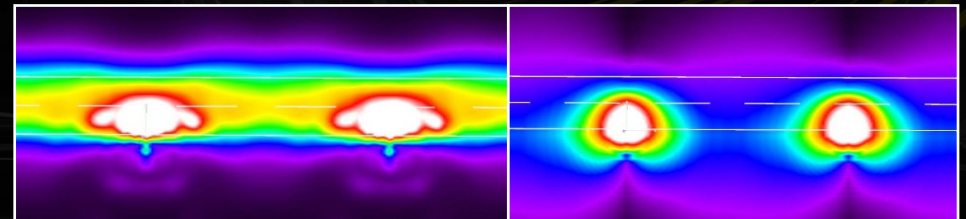
- Needs fewer LEDs, lenses and heat sinks
- Uses less energy for a faster return on investment

LEDiL lens

Average: 18 lx  
Uniformity (uO): 0.58

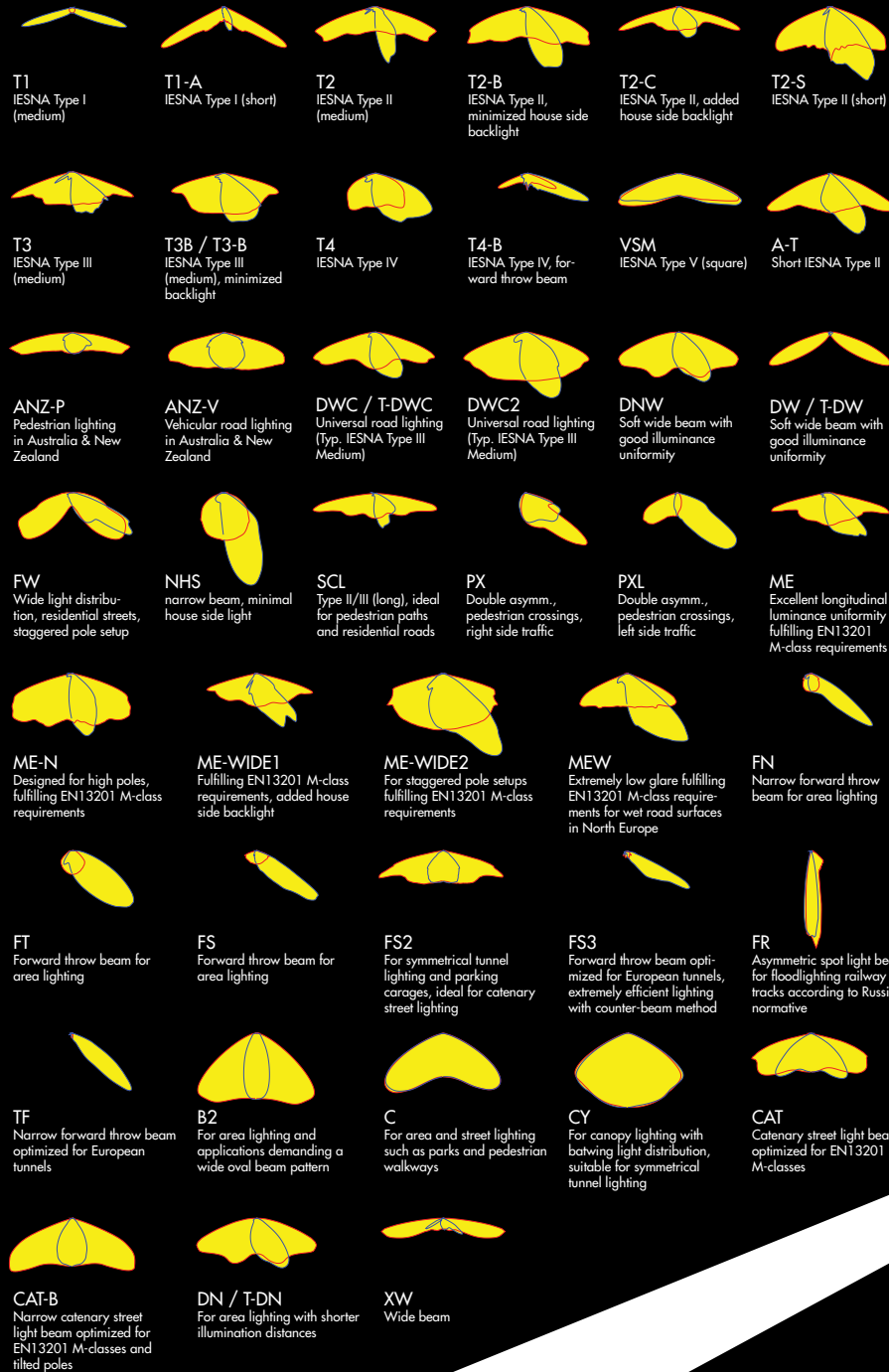
Competitor lens

Average: 10 lx  
Uniformity (uO): 0.34



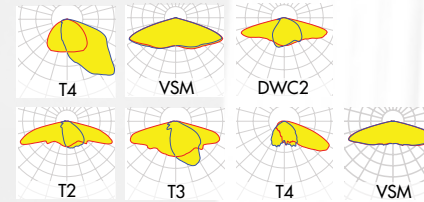


# BEAMS FOR STREET LIGHTING



# STELLA Ø90 mm up to IP67 silicone lenses

## STREET LIGHTING BEAMS AVAILABLE



## 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

3<sup>rd</sup> 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.

## STREET LIGHTING BEAMS AVAILABLE



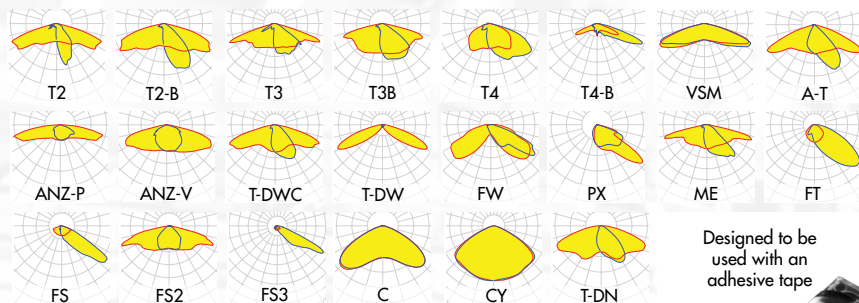
# STRADA

The most versatile modular product family especially designed for street lighting

## SQ

25 x 25 mm

up to 7070 size LED packets



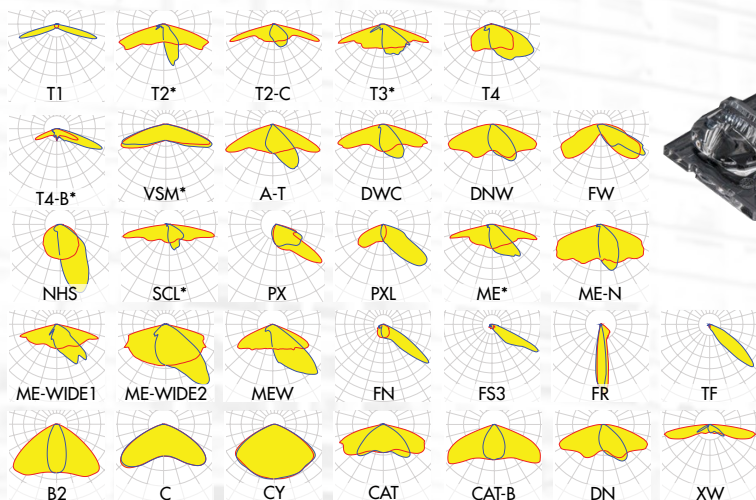
Designed to be used with an adhesive tape

## 2X2

50 x 50 mm

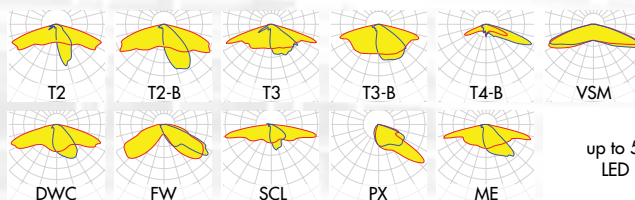
up to 5050 size LED packets

\*variant available for CSP LEDs



## IP-2X6

173 x 71.4 mm

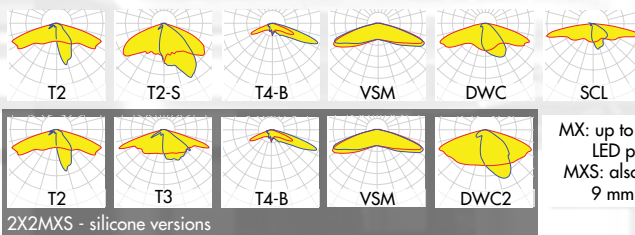


up to 5050 size LED packets

up to IP67

## 2X2 MX/S

90 x 90 mm



2X2MXS - silicone versions

up to IP67

MX: up to 7070 size LED packets  
MXS: also for up to 9 mm COBs

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

# STRADELLA

## COMPATIBILITY

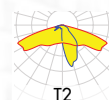
All STRADELLA versions:  
For up to 3535 size mid- and high-power LEDs and CSP LEDs.

STRADELLA-8-HV versions available with longer location pin distance (47.4 mm) allowing high voltage circuit designs.

Shorter location pin distance (45 mm) available from all STRADELLA-8 versions except ME-N and CY.

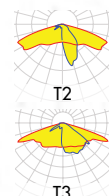
## IP-16

100 x 60 mm  
up to IP67



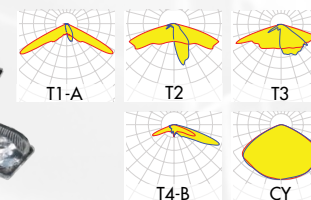
## IP-28

100 x 100 mm  
up to IP67



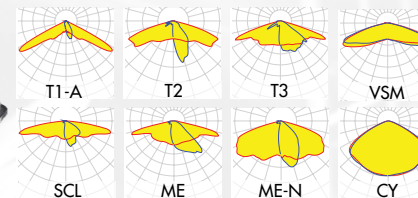
## SINGLE

14 x 14 mm



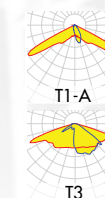
## 8

50 x 50 mm



## 16

50 x 50 mm



THE WORLD'S NO.1 STREET LIGHTING OPTICS PROVIDER

# LEDiL®

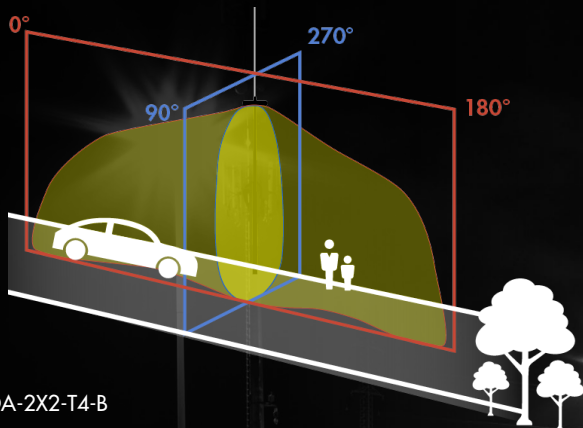


# HOW TO READ POLAR CURVES

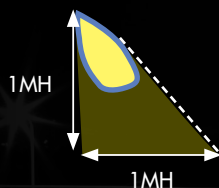
0° to 180° (red):  
Light along the road

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

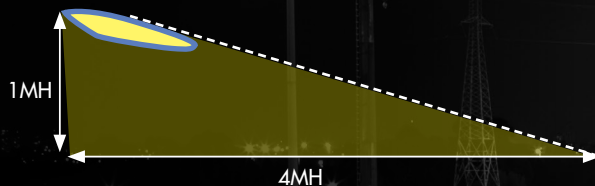
The polar curve can be used  
to estimate optimal beam for  
installation



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

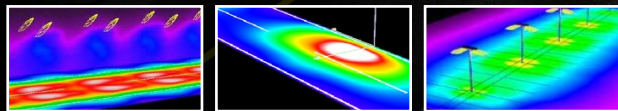
Thermal analysis for luminaire designs

Free for all our customers

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