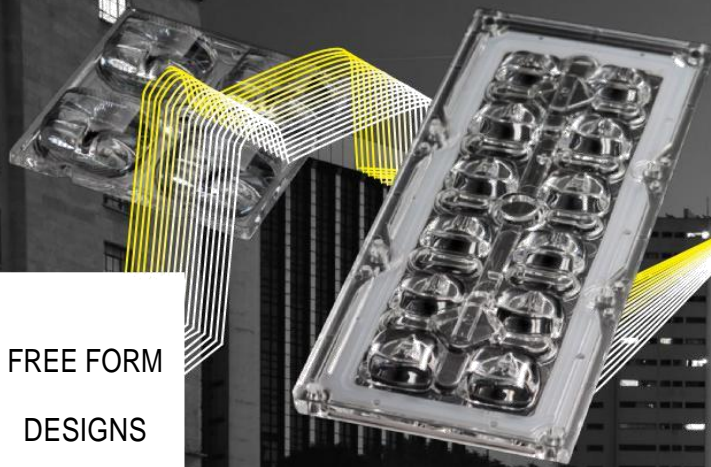


# LEDiL®

GUIDE FOR STREET LIGHTING OPTICS





FREE FORM  
DESIGNS

AROUND  
**50**  
BEAMS FOR  
STREETS

EXTENSIVE  
CUSTOMER  
SUPPORT

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



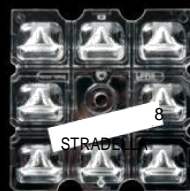
3030, 2-chip plastic  
1W / 150 lm



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 **LEDiL**  
your luminaire to optimize cost, **THAT IS**  
efficacy and light distribution **RIGHT**  
with great results!

**LEDiL®**

## FREEDOM OF DESIGN STREET LIGHTING WITH LEDiL

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

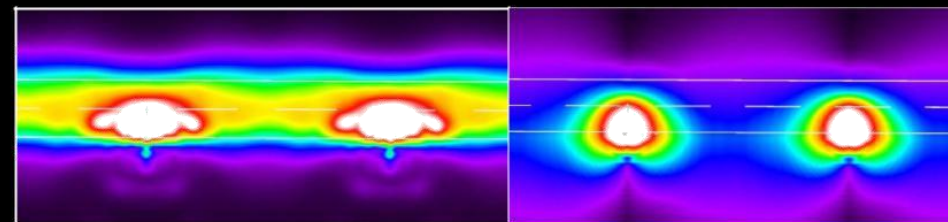
- Needs fewer LEDs, lenses and heat sinks
- Uses less energy for a faster return on investment

LEDiL lens

Average: 18 lx  
Uniformity (uO): 0.58

Competitor lens

Average: 10 lx  
Uniformity (uO): 0.34



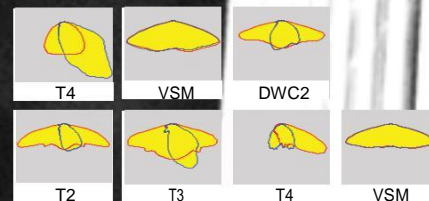


# BEAMS FOR STREET LIGHTING



# 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

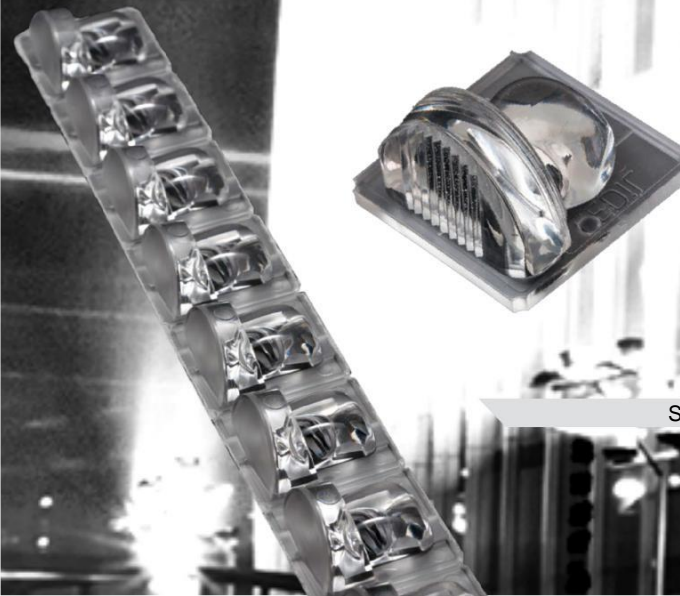
**G2:** Optimized for 23 mm LES size  
Compatible with up to 30 mm LES size  
Same footprint as with original STELLA, but with more space inside for Zhaga compliant COB connectors

3rd party connectors available from:  
B+W, BJB, TE and Stucchi



# JENNY

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



## COMPATIBILITY

Up to 7070 size LED packages

## STREET LIGHTING BEAMS AVAILABLE



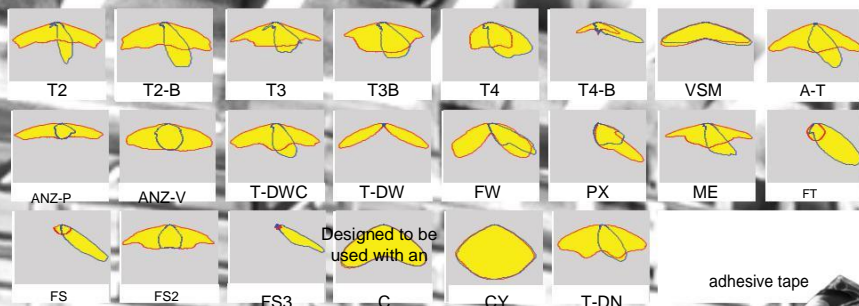


# STRADA

The most versatile modular product family  
especially designed for street lighting

## SQ

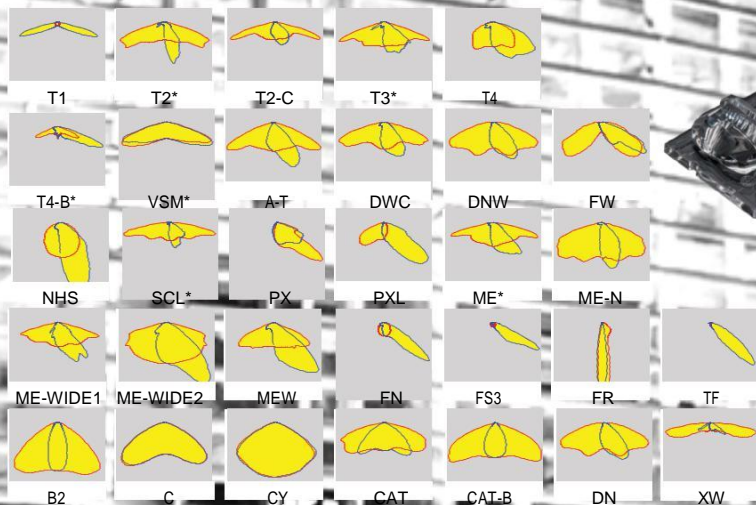
25 x 25  
mm  
up to  
7070  
size  
LED  
packets



## 2X2

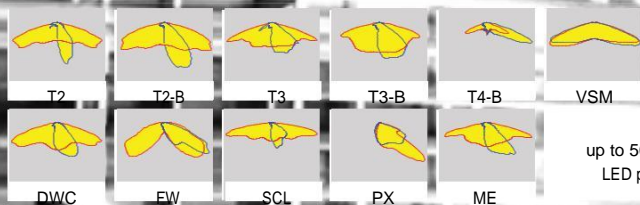
50 x 50  
mm  
up to  
5050  
size  
LED  
packets

\*variant  
available  
for CSP  
LEDs



## IP-2X6

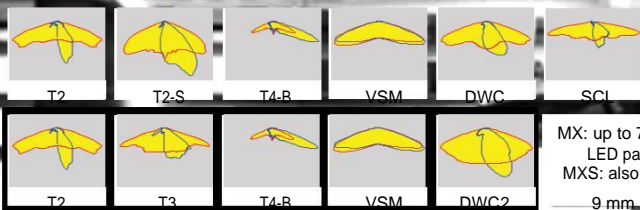
173 x 71.4  
mm



up to  
IP67

## 2X2 MX/S

90 x 90  
mm



up to  
IP67

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

2X2MXS - silicone versions

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.

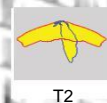
STRADELLA-8-HV versions  
available with longer location pin  
distance (47.4 mm) allowing high  
voltage circuit designs.

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

## IP-16

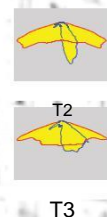
100 x 60  
mm

up to  
IP67



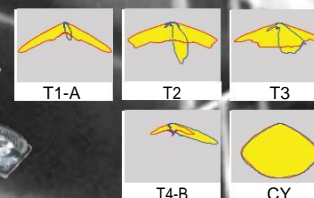
## IP-28

100 x 100  
mm  
up to  
IP67

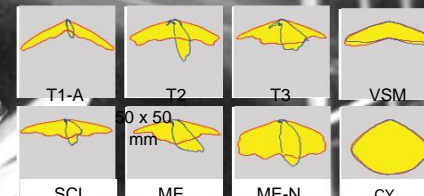


## SINGLE

14 x 14  
mm

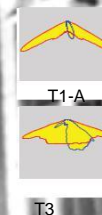


## 8



## 16

50 x 50  
mm



THE WORLD'S NO.1 STREET LIGHTING OPTICS PROVIDER

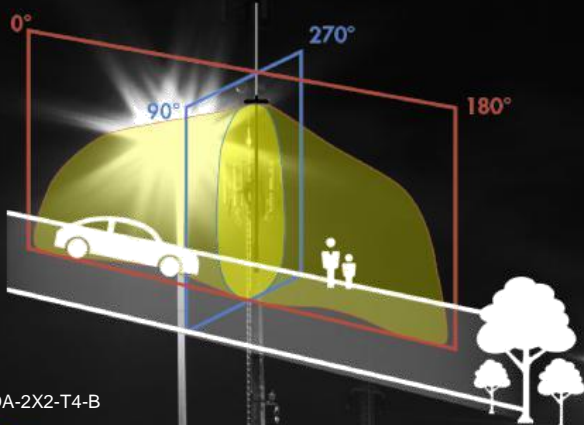
# LEDiL®

# HOW TO READ POLAR CURVES

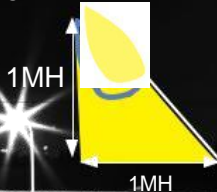
0° to 180° (red):  
Light along the road

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

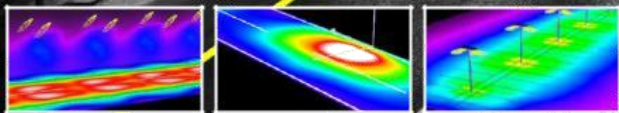
Thermal analysis for luminaire designs

Free for all our customers

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