FREE FORM DESIGNS

AROUND 50 BEAMS FOR STREETS

HIGH QUALITY

PATENTED INNOVATIONS

GLOBAL SOLUTIONS

MODULARITY

FREE FORM 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

ALLOWS EASY AND FLEXIBLE COST AND EFFICACY OPTIMIZATION
BEAMS FOR STREET LIGHTING

T1  IESNA Type I (medium)
T1-A  IESNA Type I (short)
T2  IESNA Type II (medium)
T2-B  IESNA Type II, minimized house side backlight
T2-C  IESNA Type II, added house side backlight
T2-S  IESNA Type II (short)
T3  IESNA Type III (medium)
T3B / T3-B  IESNA Type III (medium), minimized backlight
T4  IESNA Type IV
T4-B  IESNA Type IV, forward throw beam
VSM  IESNA Type V (square)
A-T  Short IESNA Type II

ANZ-P  Pedestrian lighting in Australia & New Zealand
ANZ-V  Vehicular road lighting in Australia & New Zealand
DWC / T-DWC  Universal road lighting (Typ. IESNA Type III Medium)
DWC2  Universal road lighting (Typ. IESNA Type III Medium)
DNW  Soft wide beam with good illuminance uniformity
DW / T-DW  Soft wide beam with good illuminance uniformity

ME-N  Designed for high poles, fulfilling EN13201 M-class requirements
ME-WIDE1  Fulfilling EN13201 M-class requirements, added house side backlight
ME-WIDE2  For staggered pole setups fulfilling EN13201 M-class requirements
MEW  Extremely low glare fulfilling EN13201 M-class requirements for wet road surfaces in North Europe
FN  Narrow forward throw beam for area lighting

FT  Forward throw beam for area lighting
FS  Forward throw beam for area lighting
FS2  For symmetrical tunnel lighting and parking carages, ideal for catenary street lighting
FS3  Forward throw beam optimized for European tunnels, extremely efficient lighting with counter-beam method
FR  Asymmetric spot light beam for floodlighting railway tracks according to Russian normative

TF  Narrow forward throw beam optimized for European tunnels
B2  For area lighting and applications demanding a wide oval beam pattern
C  For area and street lighting such as parks and pedestrian walkways
CY  For canopy lighting with bathing light distribution, suitable for symmetrical tunnel lighting
CAT  Catenary street light beam optimized for EN13201 M-classes

CAT-B  Narrow catenary street light beam optimized for EN13201 M-classes and tilted poles
DN / T-DN  For area lighting with shorter illumination distances
XW  Wide beam

FW  Wide light distribution, residential streets, staggered pole setup
NHS  Narrow beam, minimal house side light
SCL  Type II/III (long), ideal for pedestrian paths and residential roads
PX  Double asymm., pedestrian crossings, right side traffic
PXL  Double asymm., pedestrian crossings, left side traffic

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**STELLA**

Ø90 mm up to IP67 silicone lenses

**STREET LIGHTING BEAMS AVAILABLE**

<table>
<thead>
<tr>
<th>G1</th>
<th>T4</th>
<th>VSM</th>
<th>DWC2</th>
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</table>

**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.

**STREET LIGHTING BEAMS AVAILABLE**

| FT45 | CY | T4 |
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
- MX: up to 7070 size LED packets
- MXS: also for up to 9 mm COBs
- up to IP67
Cost-efficient product family of single lenses and dense lens arrays

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

THE WORLD’S NO.1 STREET LIGHTING OPTICS PROVIDER

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 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

<table>
<thead>
<tr>
<th>LEDiL lens</th>
<th>Competitor lens</th>
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<tbody>
<tr>
<td>Average: 18 lx</td>
<td>Average: 10 lx</td>
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<tr>
<td>Uniformity (uO): 0.58</td>
<td>Uniformity (uO): 0.34</td>
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</tbody>
</table>
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

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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