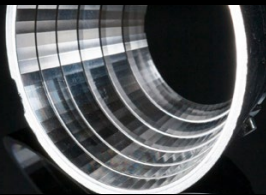


LEDiL<sup>®</sup>

From Light to Lighting  
Upcoming products from LEDiL



[www.ledil.com](http://www.ledil.com)

Q4/2016 - Q1/2017

ver.5/2016

# LEDiL's new solderless connectors

## VESUVIUS & HEKLA



### What makes you want it?

- Compatibility now and in the future with most of our lenses and reflectors
- Multiple dimensions and Zhaga mounting holes
- At very attractive price

### Technical details

- Robust design maintaining constant pressure on COBs
- LEDiL "snap in" feature simplifies the installation and makes alignment of the LED easy
- Zhaga 35mm mounting holes and the same "twist and lock" feature as in other LEDiL holder systems
- Industrial standard integrated poke-in wire terminals and very low profile design

Make your connections more versatile, robust and future proof

## VESUVIUS (D=50mm)

- Metal holding clips that ensure excellent thermal control and pressure against bigger COBs
- Compatible with various reflector families from LEDiL (ANGELETTE, ANGELA, ANGELINA)

## HEKLA (D=44mm)

- Innovative LEDiL Push-In connectors allows you to decide whether you want to solder the LEDs or not
- Compatible with smaller size lenses and reflectors like LEDiL's BROOKE-G2, BARBARA-G2, MIRELLA-G2, RONDA, CARMEN and ZORYA
- Minimalistic design with great flexibility



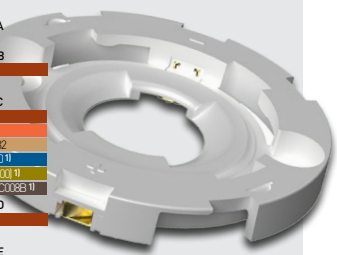
LED Compatibility

KA15411_VESUVIUS-A
V8 (Gen7)
H16
CLL03x/CLL03x/CLU720/721
ZC-12ZC-18
Sokard S13 (Gen2)
SLEGG LES15 & XD
LC016D/17D/20D
DMC 124/123

Other versions and compatible LEDs to come!

### LED Compatibility

KN15490_KONNTAKT-HEKLA-A	V6 (Gen6)/V8 (Gen6/7)
KN15500_KONNTAKT-HEKLA-B	CXA/B1830 H12 DREE CXA/B 1816/20
KN15501_KONNTAKT-HEKLA-C	CL112x/CL102x/LES10 V10 (Gen7) CLU25/27 Sokem S9 CLU700/701 IFFIL-M022 ZC-12ZC-6 CXA/B1310/1 SLEGG LES15 or LES11 COM-MAC00 11 LC008/09/10/13D LC008/LC009 11
KN15502_KONNTAKT-HEKLA-D	CXA/B1500 H9 CXB1807, CXB1512
KN15503_KONNTAKT-HEKLA-E	V10/13 (Gen7)
F15616_HEKLA-SOCKET-F <sup>2)</sup>	VER010



LEDiL recommends the use of M3 washers with all solderless connectors to improve reliability and LED lifetime.

1) Compatible, but not possible to use solderless connectors  
2) Socket only, no Push-In connectors needed

FWHM angles, efficiencies and cd/lm values contained herein are typical values. Actual measured values depend of the specific LED/optic combination. Go to [www.ledil.com](http://www.ledil.com) for LED specific values and optical datasheets.

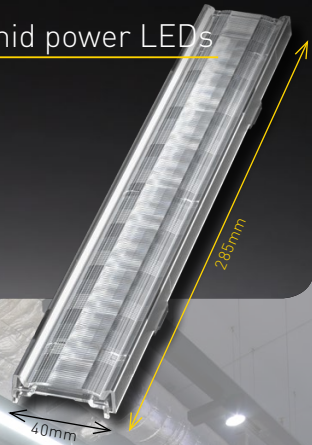
See full family listing  
and ordering codes at  
[www.ledil.com/linnea](http://www.ledil.com/linnea)



# A new 40mm wide linear lens family for mid power LEDs

## LINNEA

- Advanced optical control with less glare, great color uniformity and improved longitudinal illuminance
- Allows a solid linear construction without gaps between the lenses
- Extremely fast to assemble with integrated clips and no screws needed



### FEATURES

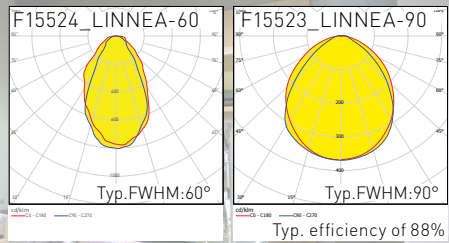
- 40mm wide PC lens with a diffused surface and a low profile
- Lens clips to a metal sheet or profile while resting on top of the PCB - different lens versions for 1-1.2mm and 0.5mm profile thicknesses
- Enough space for board-to-board connections
- 90° beam will be followed by 60° and asymmetrical beams
- Solid construction protects the LEDs from external touches and excessive dust

### COMPATIBILITY

- Optimized for the most common Zhaga mid-power 24mm wide PCBs

### TYPICAL APPLICATIONS

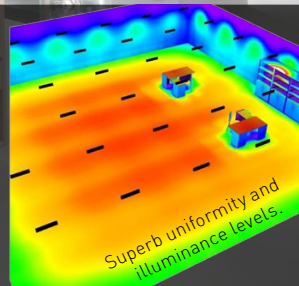
- Fluorescent lamp replacements
- Industrial lighting
- Office lighting
- Retail
- Garages and canopies
- Pendant luminaires



### APPLICATION EXAMPLE

Two mid-power modules are enough to replace a typical single fluorescent tube in this warehouse installation.

Installation height: 2.9m  
 36 luminaires in total  
 Luminous flux: 1 000lm (LEDs)  
 Luminous flux: 885lm (Luminaire)  
 Eav: 115lx (workplane) 105lx (floor)  
 u0: 0.55 (workplane) 0.51 (floor)  
 Maintenance factor: 0.8



See full family listing  
 and ordering codes at  
[www.ledil.com/gabriella](http://www.ledil.com/gabriella)

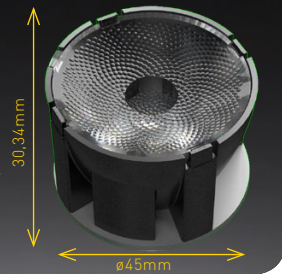


See full family listing  
 and ordering codes at  
[www.ledil.com/florencefamily](http://www.ledil.com/florencefamily)



## RGB and tunable white 45mm mixer lens GABRIELLA

- 45mm color mixing lens with a very narrow beam
- Easy & reliable assembly with excellent positioning accuracy
- Medium and wide beam versions to follow



### FEATURES

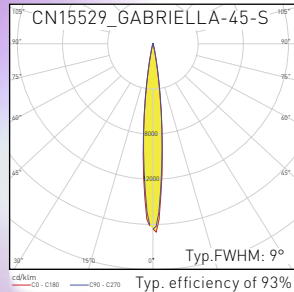
- LEDiL's unique color mixing surface ensures uniform beam
- Holder design allows more space for components
- Can be fastened with screws or pre-installed tape

### COMPATIBILITY

- Optimized for 5050 sized and compatible with 7070 RGB LEDs
- 13.6mm pin distance

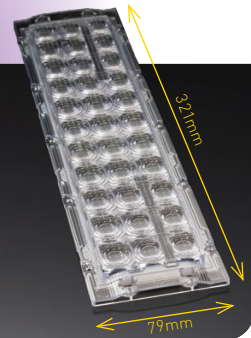
### TYPICAL APPLICATIONS

- Stage lighting
- Architectural lighting



## PC lens optimized for moist environments FLORENCE-3R-IP

- Up to IP67 rated PC lens for fluorescent light replacements
- Perfect for industrial halls affected by moisture and constant dust
- Compact and efficient design with high impact resistance



### FEATURES

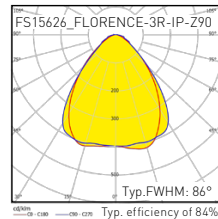
- 14 screw holes outside the integrated silicone gasket to allow up to IP67 rating
- 90° beam will be followed by 60° and oval beam

### TYPICAL APPLICATIONS

- Industrial lighting
- Indoor lighting
- Low bay applications
- Halls

### COMPATIBILITY

- Range of 3x11 mid-power LED modules



FWHM angles, efficiencies and cd/lm values contained herein are typical values. Actual measured values depend of the specific LED/ optic combination. Go to [www.ledil.com](http://www.ledil.com) for LED specific values and optical datasheets.

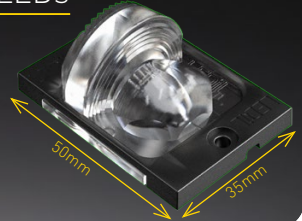
See full family listing  
and ordering codes at  
[www.ledil.com/jenny](http://www.ledil.com/jenny)



## Symmetrical beams for ultra high-power LEDs

# JENNY

- Silicone lenses made for extreme conditions – Superior heat and UV-radiation resistance
- Ideal for sport field lighting with ultra high-power LEDs
- FIFA lighting requirements can be met



### FEATURES

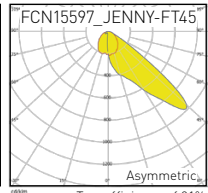
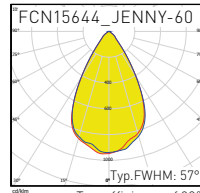
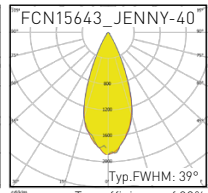
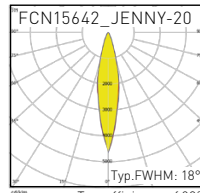
- Lens heights from only 13,4 to 15 mm
- Beam angles fulfilling NEMA requirements in typical installations
  - 20°=NEMA3
  - 40°=NEMA4
  - 60°=NEMA5
- JENNY-FT65 to follow

### COMPATIBILITY

- Ideal for 4-chip ultra high power LEDs
- Comptible with previously released C14436\_JENNY-HLD-A-BLK

### TYPICAL APPLICATIONS

- Sport field and stadium lighting
- High mast applications



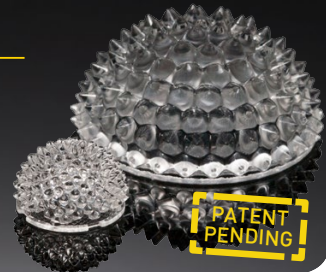
The information contained herein is the property of LEDiL Oy, Satorankatu 10, FI-24240 SALO, Finland, and is subject to change without prior notice. Please visit [www.ledil.com](http://www.ledil.com) for additional information, such as the latest photometric files, 3D mechanical models, and application notes relating to handling, gluing and taping.



## 340° silicone optic for retrofits

### ZORYA

- Omnidirectional lens meeting Energy Star requirements
- High temperature resistance due to silicone technology
- Twist and lock holder system allows the lens to be used with solderless connectors



#### FEATURES & BENEFITS

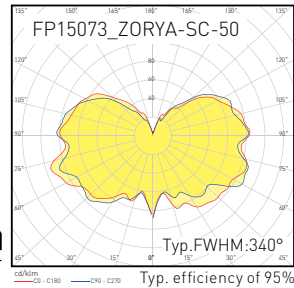
- High efficiency (95%) with excellent UV, heat, and impact resistance
- Can be used as it is, or with external protective cover
- RGB and tunable white support

#### COMPATIBILITY

- LES sizes from 6 mm to 24 mm
- LEDiL's HEKLA and 3<sup>rd</sup> party connectors
- LEDiL adapters allow easy fitting to various connectors and base parts

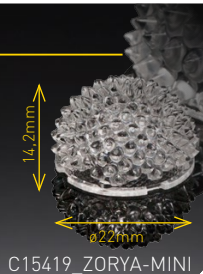
#### TYPICAL APPLICATIONS

- Retrofit
- Walkway lighting
- Industrial lighting
- Garden lights



### ZORYA-MINI

- 22mm PC optic, perfect for light bulbs
- Close to 50/50 front and backlight ratio
- For high power LEDs up to 7070 size packages
- Simple attachment with adhesive tape



LED Compatibility	
BXRAESR, V10, V13	
CLL02x, CLL03x, CLL04x, CLLU700, CLLU710, CLLU720, CLLU730	
CXA/B 13xx, CXA/B 15xx, CXA/B 1816, CXA/B 25xx, CXA/B 30xx	
LXCoB 105/107/109, LXCoB 1204/1205, LXCoB 1211	
Soleriq P6, Soleriq P9, Soleriq S13, Soleriq S13 Gen2, Soleriq S19	
LC013B, LC019B	
ZC12/18, ZC25/40, ZC4/6	
Mega Zenerigata, Mini Zenerigata	
SLE 64 LES10, SLE 65 LES15	
DMC 122, DMC 125, DMC 128	

FWHM angles, efficiencies and cd/lm values contained herein are typical values. Actual measured values depend of the specific LED/ optic combination. Go to [www.ledil.com](http://www.ledil.com) for LED specific values and optical datasheets.

See full family listing  
 and ordering codes at  
[www.ledil.com/carmen](http://www.ledil.com/carmen)



See full family listing  
 and ordering codes at  
[www.ledil.com/ronda](http://www.ledil.com/ronda)



## 70mm COB optics with no spill light

# CARMEN

- Patent pending hybrid lens family with 10° ultra narrow beam
- Higher performance compared to similar size traditional reflector designs
- Hybrid design protects the COB from external touches and excessive dust

H: 36 mm

D: 70 mm



### FEATURES & BENEFITS

- No light spilling resulting in a higher intensity and less glare
- Standard retail and track lighting beams available
- Comes with a black reflector, especially optimized for low UGR applications

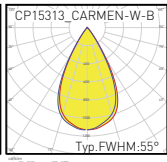
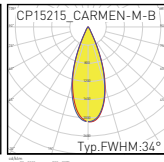
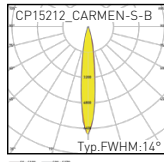
### TYPICAL APPLICATIONS

- Track lighting
- Retail and supermarkets
- Industrial lighting
- Outdoor architectural
- General indoor lighting

LED Compatibility	V10, V13
CLL01x, CLL02x	CLL010
CXA/B 13xx	CXA/B 15xx
EXCoB 105/107/109	Mini Zenogate
SLE G4 LES10	

### COMPATIBILITY

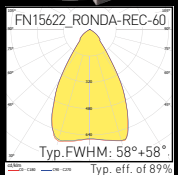
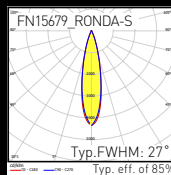
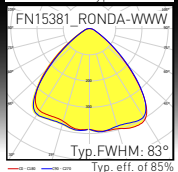
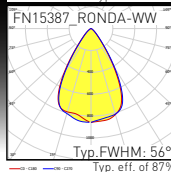
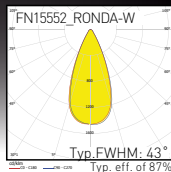
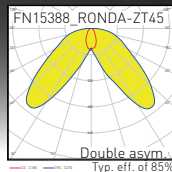
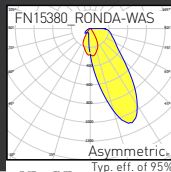
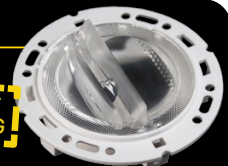
- LES sizes up to 10 mm
- LEDiL recommends spot version to be used with 6mm LES (=18000cd)
- LEDiL's HEKLA and 3<sup>rd</sup> party connectors



## Versatile low-profile system for indoor lighting

# RONDA

- 70mm diameter and low profile design with easy integration in luminaires
- Patent pending multi refraction optical technology allows excellent optical performance
- Various beam options makes RONDA an ideal and modern choice for wide range of downlight solutions





## Dark Light Optics with no glare FLORENTINA family



- Hybrid design of a black reflector and lenses designed for high visual comfort applications
- Multiple different form factors including single and linear
- Various mounting options and beam angles available

### FEATURES & BENEFITS

- Single lens, 4x1, 2x2 and 12x1 configurations available
- Beams available from 10° to 60°, also asymmetric and double asymmetric
- Standard LEDiL faceplates in black or white and possibility to make your own faceplate
- Versions available with ±30 degrees adjustable rotation mechanism
- Mounting with steel springs or screws to ceiling or to aluminium profile with LEDiL clips

### COMPATIBILITY

- LEDiL standard ROSE (up to 7070) lenses available for FLORENTINA-1, 4x1 and 2x2 versions
- LEDiL standard TINA/TINA2 (up to 3535) lenses available for FLORENTINA 12x1

### TYPICAL APPLICATIONS

- Office lighting
- Retail lighting
- Downlight applications
- Track lighting
- Indoor architectural lighting

### MOUNTING OPTIONS

- Can be installed into an aluminium profile
- Screws (M3, M4 and PT)
- Press fit pins
- Springs
- Clips
- Glue

#### LED Compatibility FLORENTINA-12x1

XHP35 HD, XM-L	LXMZ, LX Rebel ES	Duris S8
XP-E2, XP-G, XP-G2	LX Rebel Plus	Oslon Square EC
XP-L, XQ-E, XQ-E HI	LXTX, LX Z ES	Oslon SSL 80
LH351B	NC Sxx19B	H35C1 LEMMA33
TL1L4	NV Sxx19B/NV Sxx19C	

#### LED Compatibility FLORENTINA-1, -2X2, -4X1

XHP35 HD	NV Sxx19B/	Oslon Square EC
XP-G2, XP-L	NV Sxx19C	LX MZ, LXTX

## ROSE-MRK – Quality lighting for bigger LEDs

### COMPATIBILITY

- Super high-power multi-crystal LEDs up to 7070 packages

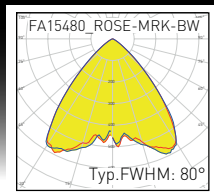
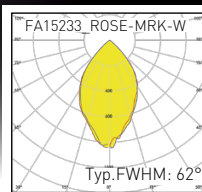
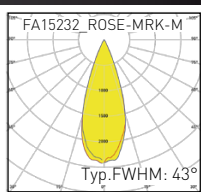
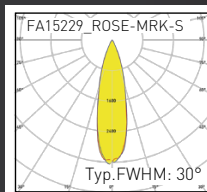
### TYPICAL APPLICATIONS

- Indoor lighting
- General lighting
- Spot lights
- Up- and downlights



LED Compatibility	
MKR	X-F30
LXM	
Duris P10	

D: 21,6 mm  
H: 11,8 mm



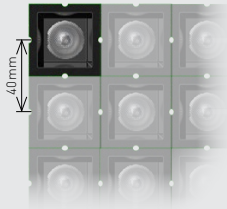
FWHM angles, efficiencies and cd/lm values contained herein are typical values. Actual measured values depend of the specific LED/optic combination. Go to [www.ledil.com](http://www.ledil.com) for LED specific values and optical datasheets.



See full family listing  
and ordering codes at  
[www.ledil.com/florentina-family](http://www.ledil.com/florentina-family)



## FLORENTINA for ROSE-CMC and -MRK lenses

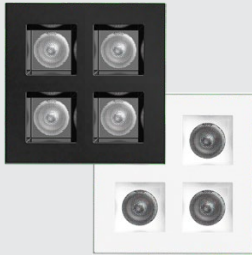


**FLORENTINA-1**  
FLORENTINA-1-HLD  
assembly including ROSE lens  
C15427\_FLORENTINA-1-SHD-60



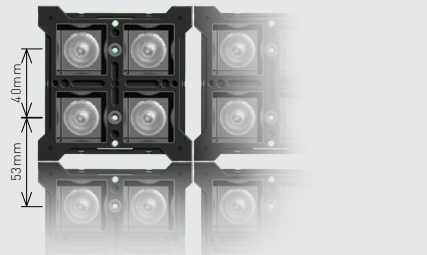
### FLORENTINA-2X2

FLORENTINA-2X2-HLD assembly including 4x ROSE lens  
C14734\_FLORENTINA-2X2-SHD  
C14960\_FLORENTINA-2X2-SHD-WHT



### FLORENTINA-2X2-OPEN

FLORENTINA-2X2-HLD assembly including 4 x ROSE lens  
C15196\_FLORENTINA-2X2-SHD-OPEN



### FLORENTINA-4X1

FLORENTINA-4X1-HLD assembly including 4x ROSE lens  
C15028\_FLORENTINA-4X1-SHD  
C15690\_FLORENTINA-4X1-SHD-WHT



### FLORENTINA-4X1-OPEN

FLORENTINA-4X1-HLD assembly including 4 x ROSE lens  
C15198\_FLORENTINA-4X1-SHD-OPEN



## FLORENTINA for TINA/TINA2 lenses

### FLORENTINA 12x1



FLORENTINA-HLD assembly including 12 x TINA/TINA2 lens  
C16446\_FLORENTINA-SHD  
C15469\_FLORENTINA-SHD-WHT





## Mid power street lighting STRADELLA family

STRADA's little sister – Compact STRADELLA lens doubles or even quadruples the density of LEDs compared to standardized STRADA-2X2 lenses, making it a cost efficient and feasible solution for mid-power LEDs.



### FEATURES & BENEFITS

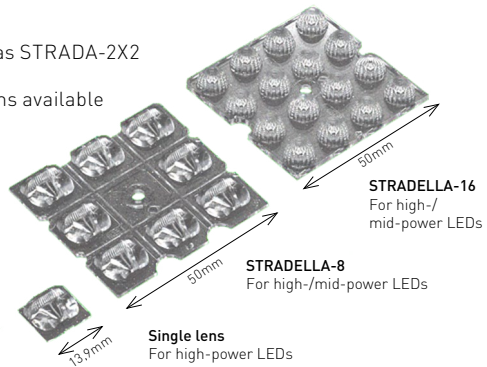
- The same dimensions and mounting hole as STRADA-2X2 family, but with 8 and 16 lenses in one
- Standard street lighting and high bay beams available
- Single lens available with the same beam angles

### COMPATIBILITY

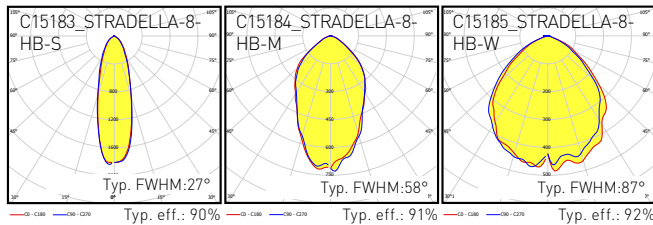
- Up to 3535 size LED packages

### TYPICAL APPLICATIONS

- Street lighting (ME, T2 & T3)
- High bay lighting (30, 60, 90)
- Flood and area lighting



### STRADELLA High Bay beams

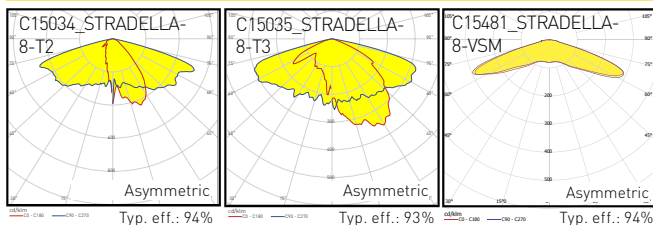


### Also available:

**Single lens**  
 C15245\_STRADELLA-HB-S  
 C15246\_STRADELLA-HB-M  
 C15247\_STRADELLA-HB-W

**STRADELLA 16-up:**  
 C15430\_STRADELLA-16-HB-S  
 C15431\_STRADELLA-16-HB-M  
 C15432\_STRADELLA-16-HB-W

### STRADELLA Street and area lighting beams



### Also available:

**Single lens**  
 C14502\_STRADELLA-T2  
 C14501\_STRADELLA-T3

**MORE BEAMS COMING!**

FWHM angles, efficiencies and cd/lm values contained herein are typical values. Actual measured values depend of the specific LED/optic combination. Go to [www.ledil.com](http://www.ledil.com) for LED specific values and optical datasheets.

And many more!

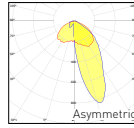
## Standard LEDiL range of optics expanded



D: 286 x 61mm H: 11,4mm

### FLORENCE-ZT25-S

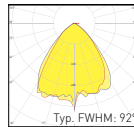
Asymmetric wall washing beam available for Florence-3R product family



D: 282 x 19mm H: 6,9mm

### FLORENCE-1R-GC-Z90

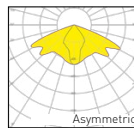
Minimum glare and optimized LED layout for high-end office lighting



D: 50mm H: 7,7mm

### STRADA-2X2-CAT-B

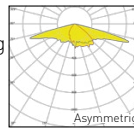
Symmetrical narrow elliptical beam, optimized for catenary lighting



D: 50mm H: 7,4mm

### STRADA-2X2-T2-C

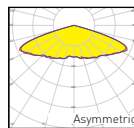
Optimized for street lighting poles with tilted and long armatures



D: 90mm H: 20,7mm

### STELLA-VSM

STELLA silicone lens with Type V beam for area lighting



### 2X2MX family

Super high power standard lens module family with huge possibilities for technical and street lighting



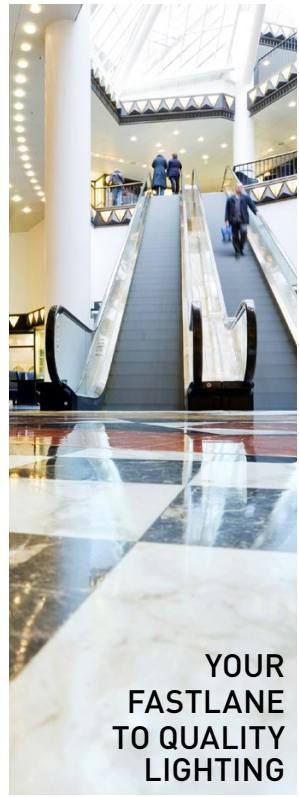
### BROOKE-G2

Brooke [D:45mm] reflector family for next generation COBs. HEKLA compatible



### SAGA-S-WHT

Innovative hybrid spotlight with silicone lens and white frame for durable indoor lighting



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FASTLANE  
TO QUALITY  
LIGHTING**

## Where to buy

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