

LEDiL[®]

From Light to Lighting
Q2/2016 Innovations from LEDiL



www.ledil.com

LEDiL's new solderless connectors

YES! Finally connectors and optics from the same manufacturer



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

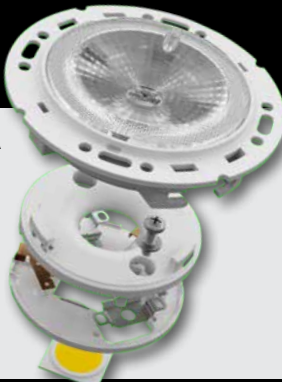
Technical details

- Robust design allows the product to be used in presence of vibrations and even in high temperature conditions
- LEDiL "snap in" feature simplifies the installation and makes alignment of the LED easy
- Zhaga 35mm and 45mm mounting holes available and the same "twist and lock" features as LEDiL other holder system
- 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 lenses and reflectors from LEDiL (ANGELETTE, ANGELA, ANGELINA, RONDA)
- Two socket versions compatible with a range of LEDs from various manufacturers
- Shares the same mounting interface as Ideal, TYCO, Stucchi etc.



LED Compatibility
KA15411_VESUVIUS-A
 CLL03v, CLL03v
 ZC-12/18
 SLE06/LES15
 CXM-14 (AC001)
 Version B
 CXA18

And more is coming...

HEKLA (D=44mm)

- Innovative LEDiL Push-In accessories allows you to decide whether you want to solder the LEDs or not
- Push-In accessories are easily adaptable to most existing LEDiL holder systems
- Compatible with smaller size lenses and reflectors like LEDiL's BROOKE- and WINNIE-families
- Minimalistic design with great flexibility



LED Compatibility
KN15490_KONNKTAKT-HEKLA-A-V8
 BVR V68
KN15503_KONNKTAKT-HEKLA-A-V13
 BVR V10/13
KN15502_KONNKTAKT-HEKLA-A-CXA1520
 CXA B120
KN15500_KONNKTAKT-HEKLA-A-CXA1850
 CXA B1850
KN15501_KONNKTAKT-HEKLA-A-CLL020
 CLL02v, CLL03v, CLL03v, CLL03v, CLL03v
 CLL03v
 ZC-4/2C-4
 CXA B1310, SLE-06/LES6/SLE-06, SLE-06/LES6/SLE-06
 CXM-9 (AC001), LES11
 Solero 59

And more is coming...

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

Available in Q2

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 for LED specific values and optical datasheets.

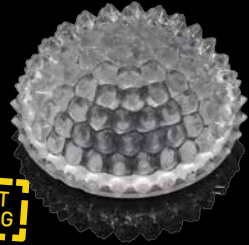


~360° silicone optic for retrofits

ZORYA

- Omnidirectional lens fulfilling Energy Star standards
- Easy ingress protection due to silicone technology
- Twist and lock holder system allows the lens to be used with solderless connectors

**PATENT
PENDING**

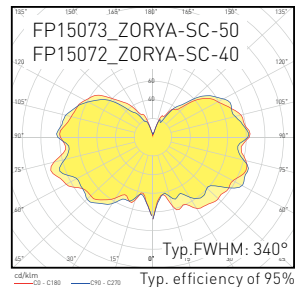


FEATURES & BENEFITS

- High efficiency (95%) with excellent UV, heat, and impact resistance
- Flexible design with 2 dimensions available – 50 and 22mm
- Can be used as it is, or with external protective cover
- RGB and tunable white support
- Flexible design – lens can be scaled and holder modified

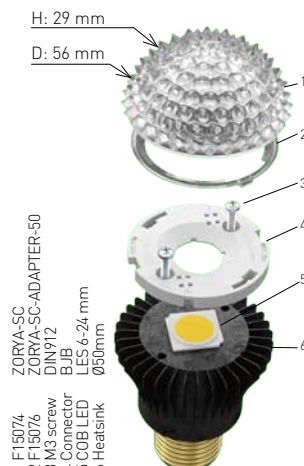
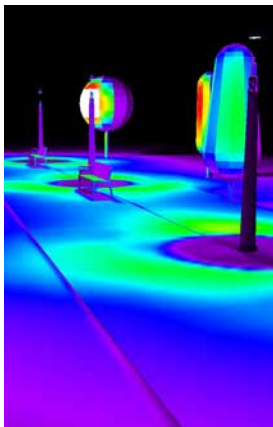
COMPATIBILITY

- LES sizes from 6 mm to 24 mm
- Stucchi, BJB and Tyco solderless connectors
- 40 and 50 mm LEDiL adapters



TYPICAL APPLICATIONS

- Retrofit
- Walkway lighting
- Industrial lighting
- Garden lights



LED Compatibility	
BXRAESR, V10, V13	
CLL02x, CLL03x, CLL04x, CLL700, CLL710, CLL720, CLL730	
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	

Available in Q2



70mm COB optic with 10° beam and no halo

CARMEN

- Patent pending hybrid lens family with 10° ultra narrow beam
- Higher performance compared to similar metallized reflector designs in the market
- Dust- and TouchProof design

PATENT PENDING



FEATURES & BENEFITS

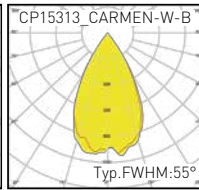
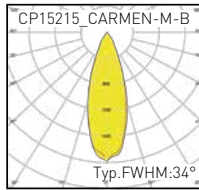
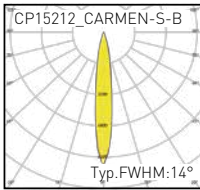
- No halos or light spilling resulting in a higher intensity and less glare
- Standard retail and track lighting beams available
- Comes with a black reflector, especially optimized for low UGR applications

TYPICAL APPLICATIONS

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

COMPATIBILITY

- LES sizes up to 14 mm
- LEDiL recommends spot version to be used with 6mm LES (=18000cd)
- Holder options for BJB and Stucchi solderless connectors



DESIGN EXAMPLE



Available in Q2

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 for LED specific values and optical datasheets.



70mm, recessed system for all architectural lighting needs

RONDA

- Asymmetric and double asymmetric wall washing beams meeting even strictest vertical illuminance requirements
- No shadows, uniform light up to the ceiling level without any tilting of the fixture needed
- Wide customization possibilities (front panel, assembly depth, light pattern)



FEATURES & BENEFITS

- Various light distributions available with smooth cut-off
- Low profile design for shallow depth installations
- Typical installation ratio 1:3 with asymmetric beams
- Accessories available by request (black shade available for double asymmetric version)
- ZT45-version for corridors, aisles and vertical surface illumination

MOUNTING OPTIONS

- Screws
- Glue

COMPATIBILITY

- LES sizes up to ~16 mm
 - Two holder versions to support most common connectors
- Holder A:** LEDiL, TE, BENDER+WIRTH and other twist and lock socket types
- Holder B:** different connectors from BJB and Stucchi

Faceplate examples

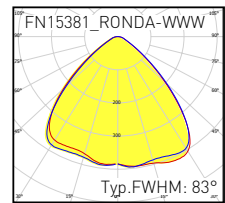
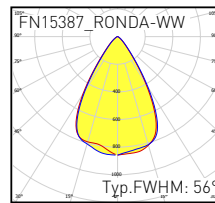
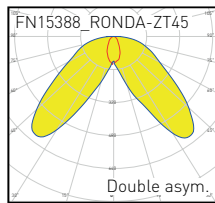
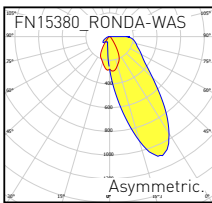


LED Compatibility	
V10_VER013	
CLL02x	
CLU700, CLU710	
CXA/B 13xx	
CXA/B 15xx	
CXA/B 1816	
CXA/B 1830	
LX CoB 1202/1203	
LX CoB 1202s	
NSBxL066A/NFCxL036B	
NSBxL110	
NSCxL036A	
DurisS10	
SolenisS13	
SolenisS9	
Mini Zenigata	

TYPICAL APPLICATIONS

- Office lighting
- Architectural lighting
- Downlights
- Museums
- Shops
- Hotels

Design example



Available now



Anti-glare Optics with <math><19</math> UGR FLORENTINA family



- Hybrid design of a black reflector and lenses designed for high visual comfort applications
- Higher intensity and less spill light compared to metallized reflectors
- 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 aluminum profile with LEDiL clips

COMPATIBILITY

- LEDiL standard ROSE (up to 5050) lenses available for FLORENTINA 4x1 and 2x2 versions
- LEDiL standard TINA/TINA2 (up to 3535) lenses available for FLORENTINA 12x1

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, XD-E, XD-E HI	LXTX, LXZ ES	Oslon SQR 80
LH351B	NCSxx19B	H35C11, EMMWA33
TL11/4	NV5xx19B/NV5xx19C	

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

XHP35 HD	NV5xx19B/	Oslon Square EC
XP-G2, XP-L	NV5xx19C	LX MZ, LXTX

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

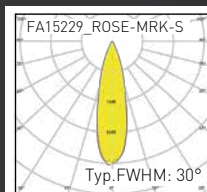
ROSE-MRK – Quality lighting for bigger LEDs

COMPATIBILITY

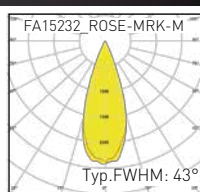
- Super high-power multi-crystal LEDs up to 7070 packages

TYPICAL APPLICATIONS

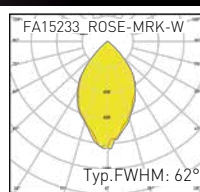
- Indoor lighting
- General lighting
- Spot lights
- Up- and downlights



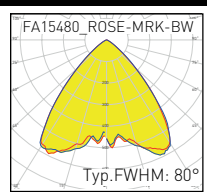
Typ. efficiency of 80%



Typ. efficiency of 84%



Typ. efficiency of 84%



Typ. efficiency of 87%

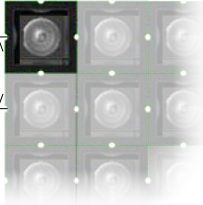
Available now

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 for LED specific values and optical datasheets.



FLORENTINA for ROSE-CMC and -MRK lenses

40mm



FLORENTINA-1
C15426_FLORENTINA-1-HLD
C15427_FLORENTINA-1-SHD-60
ROSE lens

MAKE
IT
YOURS

FLORENTINA-2X2

C14735_FLORENTINA-2X2-HLD
C14734_FLORENTINA-2X2-SHD
C14960_FLORENTINA-2X2-SHD-WHT
4 x ROSE lens



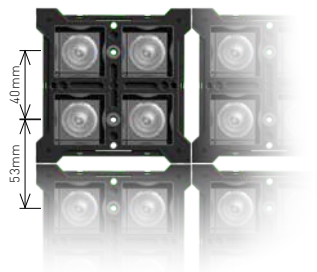
FLORENTINA-2X2-UV

C14735_FLORENTINA-2X2-HLD
C15030_FLORENTINA-2X2-SHD-UV
4 x ROSE lens



FLORENTINA-2X2-OPEN

C14735_FLORENTINA-2X2-HLD
C15196_FLORENTINA-2X2-SHD-OPEN
4 x ROSE lens



FLORENTINA-4X1

C15029_FLORENTINA-4X1-HLD
C15028_FLORENTINA-4X1-SHD
4 x ROSE lens



FLORENTINA-4X1-UV

C15029_FLORENTINA-4X1-HLD
C15031_FLORENTINA-4X1-SHD-UV
4 x ROSE lens



FLORENTINA-4X1-OPEN

C15029_FLORENTINA-4X1-HLD
C15198_FLORENTINA-4X1-SHD-OPEN
4 x ROSE lens



FLORENTINA for TINA/TINA2 lenses

FLORENTINA 12x1



C14465_FLORENTINA-HLD
C16446_FLORENTINA-SHD
12 x TINA lens



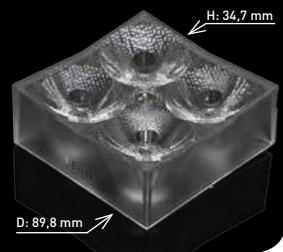
Available in Q2



10 degree beam with 5050 packages

LUCIA family (90x90mm)

- 4-up lens module with specially tilted lenses
- Precise "blade" type beam ideal for the illumination of large buildings, objects and pillars
- LUCIA can be also used in surgical- and sports lighting applications thanks to its very good cut off

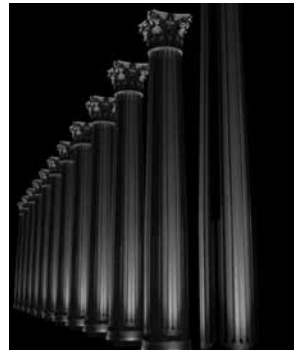


FEATURES & BENEFITS

- Glare-free and powerful light from very compact source
- Specifically optimised for visually demanding tasks
- Easy mounting with 1 screw

TYPICAL APPLICATIONS

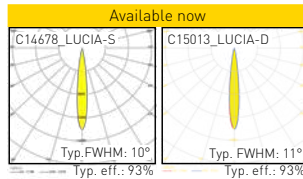
- Outdoor up-/downlighting
- Architectural lighting
- Surgery light
- Flood light
- High-speed camera lighting



COMPATIBILITY

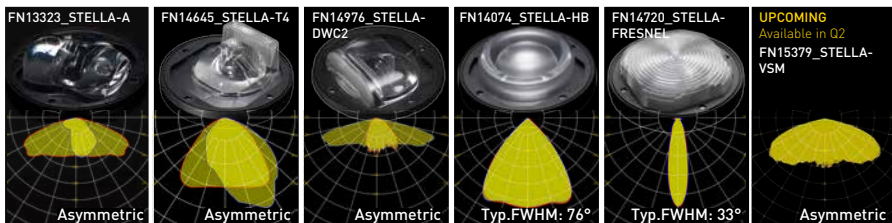
- Up to 7070 size LED packages

LED Compatibility		Duns P10
XHP35 HI, XHP50	XP-E2, XP-G2	LXM, LXMZ
XHP70, XM-L RGB	XP-L	LXZ RGB



COB street and high bay lighting

STELLA silicone lens family (D=90mm)



FEATURES & BENEFITS

- Various beam angles available
- Self-sealing IP67 rated products with excellent thermal, UV, and impact resistance
- Highly performing silicone lenses with no house-side peaks

COMPATIBILITY

- Up to 23mm LES sizes

TYPICAL APPLICATIONS

- Street lighting (ME1 & Type III)
- High Bay (40, 60, 90, 140)
- Canopy and forward throw available

Available now

LED Compatibility: Check www.ledil.com/stellafamily

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 for LED specific values and optical datasheets.



Silicone molded 2x2 lenses for high temperature applications

STRADA-2X2MXS (7070 packages)



FEATURES & BENEFITS

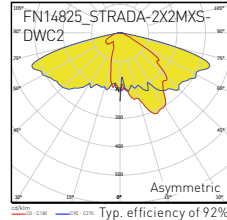
- Part of LEDiL standard (90x90mm) 2X2MX platform now in silicone
- High UV, thermal and impact resistance
- Completely sealed structure with 8 screws for IP67

COMPATIBILITY

- Up to 7070 size LED packages
- A range of 2X2MX compliant heatsinks and PCBs available from selected ecosystem partners

TYPICAL APPLICATIONS

- Both indoor and outdoor applications
- Halls, arenas, roads, pathways etc.
- Applications with high lumen outputs



LED Compatibility XHP70 LXM

Available now

STRADA-2X2S (5050 packages)

FEATURES & BENEFITS

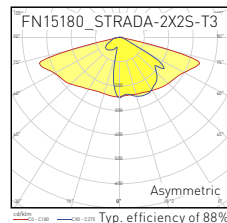
- LEDiL standard (50x50mm) STRADA-2X2 footprint in silicone
- High UV, thermal and impact resistance
- Fastening with one M3 screw

COMPATIBILITY

- Optimized for a range of 3535 high power and compatible up to 5050 LED packages

TYPICAL APPLICATIONS

- Street lighting
- Outdoor area lighting
- Pathway lighting



FN15180_STRADA-2X2S-T3

- Smooth uniform rectangular beam
- IESNA Type 3 light distribution and universal solution for general ME classes
- Installation up to 1:5 pole ratio

LED Compatibility

XB-D, XHP35 HD	XP-L, HL, XQ-E, H	NI56x119B/NI56x119C
XHP35 Hi	XI-E, XT-EH, W	Dura SP
XP-G2, XP-L	LXMZ, LXTX	Oscon Square PC

Available in Q2



Mid power street lighting STRADELLA-8UP

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



FEATURES & BENEFITS

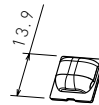
- The same dimensions and mounting hole as STRADA-2X2 family, but with 8 lenses in one
- Standard street lighting and high bay beams available
- Single lens available with the same beam angles

COMPATIBILITY

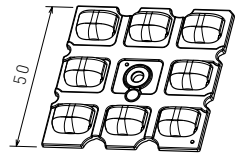
- STRADELLA-8UP: 3030 & 3535 size packages

TYPICAL APPLICATIONS

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

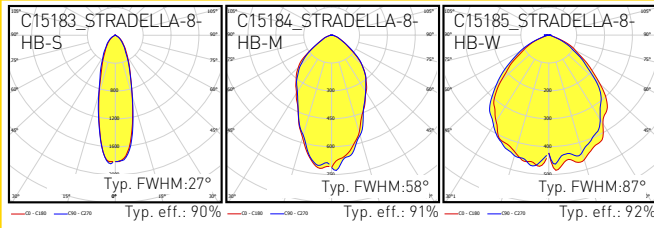


Single lens
For high-power LEDs



8-up module
For high-/mid-power LEDs

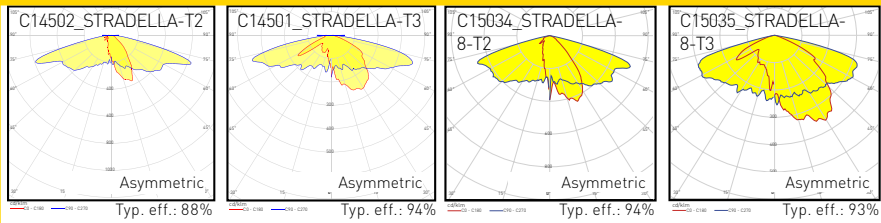
Available in Q2



LED Compatibility

- XP-G2
- XT-E
- LX 3030 2D
- LX 3535 2D
- LX FlipChip
- LX FlipChip White 10
- NP-Z757D
- NP-S519B/N/S5x19C
- Diana S8 1/2 chip
- Osilon Square EC
- Osilon Square Gen3
- Z8Y15, Z8Y19

Available now



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 for LED specific values and optical datasheets.

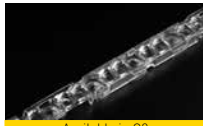
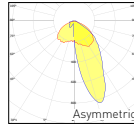
And many more!

Standard LEDiL range of optics expanded



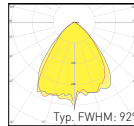
Available in Q2
D: 286 x 61 mm H: 11,4 mm

FLORENCE-ZT25-S
Asymmetric wall washing beam available for Florence-3R product family



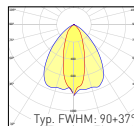
Available in Q2
D: 282 x 19 mm H: 6,9 mm

FLORENCE-1R-GC
Minimum glare and optimized LED layout for high-end office lighting



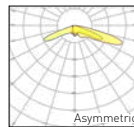
Available now
D: 286 x 61 mm H: 8,45 mm

FLORENCE-O
Elliptical beam now available for high racking applications and corridors



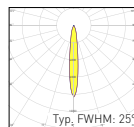
Available now
D: 50 mm H: 9,02 mm

STRADA-2X2-T4-B
Widest IESNA Type IV forward throwing beam



Available in Q2
D: 50 mm H: 13,7 mm

SAGA-S-WHT
Innovative hybrid spotlight with durable silicone lens and reflective white frame for indoor lighting

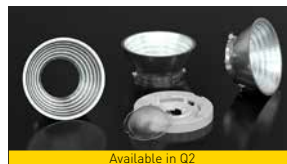


**YOUR
FASTLANE
TO
MARKET**



Available now

ANGELETTE
Industry standard (D:110 mm) diameter reflectors with various accessories



Available in Q2

BROOKE-G2
Finally Brooke (D:45mm) reflector family is available for next generation COBs



D: 9,9 x 9,9 mm H: 7,5 mm

Available now

LARISA-PIN
New holder available for LARISA product family with LEDiL standard position pins