# LEDiL

Range & precision. Our optics offer both.

LEDiL®

2021 1ST EDITION

As an undisputed leader in the field of LED optics, LEDiL strongly believes in light that is right for increased wellbeing and safety, optimised functionality and improved sustainability with energy efficiency.

LEDiL stands out thanks to its highly-rated technical support service, a global network of sales teams and distributors, as well as superior operational performance and service, creating a great customer experience. Our innovative solutions, extensive standard product portfolio and unlimited custom products based on state of the art design expertise, combined with our global production footprint also make us the first choice for the most demanding applications. We take pride in delivering the most competitive result by ensuring swift development and optimised compatibility in accordance with the latest LED technology and through close collaboration and partnerships with all the leading LED manufacturers.

Let us help you make a difference and reach your goals – with less lumens, less watts, less space, less glare, less discomfort, less energy, and less cost.

For more information, please visit **www.ledil.com**

**USEFUL INFORMATION**

You can find product-ordering names together with the latest product information and LED compatibility at: **www.ledil.com/product_search**

For your convenience we have included saved search paths under each product family name. This address will take you directly to the family listing on our website.

Find general assembly instructions and other useful information about LEDiL products in our Installation Guide at: **www.ledil.com/installation_guide**

**WE ARE LEDiL, CREATING LIGHT THAT IS RIGHT.**

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## PRODUCT FAMILIES & SUGGESTED APPLICATIONS

(not all product families listed)

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ALISE | 34 | ● | | | | | | | | | | | | | | | | | | | | ● |
| AMY | 16 | ● | | | | | | ● | ● | | ● | | | | | | | | | | | |
| ANGELA /ANGELETTE /ANGELINA | 40 | ● | ● | | ● | | ● | ● | | ● | ● | ● | | | | | | | | ● | | |
| ANGIE | 25 | | | | | | | | ● | | ● | | | | | | | | | | | |
| ANNA | 25 | ● | | | | | | ● | ● | | ● | | | | | | | | | ● | ● | |
| BARBARA | 38 | ● | ● | | | | | ● | ● | | ● | ● | | | | | | | | | | |
| BILLIE | 10 | | | | | | ● | | | | | | | | | | | | ● | ● | | |
| BOOM | 41 | | | | | | | | | | | ● | | | | | | ● | | | | |
| BRIDGET | 41 | | | | | | | | | | | ● | | | | | | ● | | | | |
| BROOKE | 36 | ● | ● | | | | | ● | ● | | ● | ● | | | | | | ● | | ● | | |
| CARMEN | 22 | ● | | | | | | ● | | | | | | | | | | | | | | |
| CLAUDIA | 31 | ● | | | | | | | | | | | | | | | | | | | | |
| CRYSTAL | 14 | | ● | | | ● | | ● | | | | | | | | | | | | | | |
| CUTE | 24 | | | | | | | | ● | | | ● | | | | | | | | | | |
| DAISY | 32 | | | ● | ● | | | | | | | | | | | | | | | | | |
| DAHLIA | 31 | | | | | | | | | | | | ● | | | | | | | | | |
| ELISE | 34 | ● | | | | | | | | | | | | | | | | | | | | |
| ELLA | 35 | ● | | | | | | ● | | | | | | | | | | | | | | |
| EMERALD | 13 | | | | | ● | | | | | | | | ● | | | | | | | | |
| EMILY | 11 | | | | | | ● | ● | | | | ● | | | | | | ● | ● | ● | | |
| EMMA | 12 | | | | | ● | | | | ● | | | | | | | | | | | | |
| EVA | 10 | ● | | | | | | ● | | | | ● | | | | | | ● | | | | |
| FLARE | 14 | | | | | ● | ● | ● | | ● | | | | | | | ● | | | | | |
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| GT3 / GT4 | 24 | | | | | | | | ● | | | ● | | | | | | | | | | |
| HB-SQ | 55 | | | | | | | | | ● | ● | | | | | | | | | | | |
| HB-2X2 | 55 | | | | | | | | | ● | ● | | | | | | | | | | | |
| HB-IP-2X6 | 55 | | | | | | | | | ● | ● | | | | ● | ● | | ● | | | | |
| HB-2X2MX / MXS | 55 | | | | | | | | | ● | ● | | | | ● | ● | | ● | | | | |
| HEIDI | 11 | | | | | | | ● | | | | ● | | | | | | ● | | ● | | |
| HELENA | 13 | ● | | | | | ● | | | | ● | ● | | | | | | | | | | |
| IDA | 26 | | | | ● | | | | | ● | ● | ● | | | | | | | | | | |
| ILONA | 17 | ● | | | | | | ● | | | | | | | | | | | | | | |
| IRENE | 10 | | | | | ● | | | | | | | | | | | | | | | | |
| IRIE | 10 | | | | | | | | | ● | | | | | | | | | | | | |
| IRIS | 10 | | ● | | | | | ● | | ● | | ● | | | | | | | | ● | | |
| JENNY | 52 | | | | | | | | | ● | | ● | | | ● | ● | | ● | | | | ● |
| JULIA | 12 | | | | ● | ● | | ● | | | | ● | | | ● | | | | | | | |
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| LAURA | 9 | | | | | | ● | ● | | | | ● | | | | | | ● | ● | ● | | |
| LEIA | 13 | | ● | | | | | ● | | | | | | | | | | | | ● | | |
| LEILA | 9 | | | | | | ● | ● | | | | ● | | | | | | | ● | ● | | |
| LENA / LENINA | 39 | ● | | | ● | | ● | ● | | | ● | ● | | | | | | ● | ● | | | |
| LILIAN | 32 | | | ● | | | ● | ● | | | | | | | | | | | | | | |
| LINDA | 30 | ● | | ● | | | | | | | | | | | | | | | | | | |
| LINNEA | 33 | ● | | ● | ● | | | ● | ● | ● | | ● | | | | | | | | | | |

○ **ASK FOR COMPATIBILITY**

● **MID-POWER LEDS**
SMD LED
Typical rated electrical power <1W

● **HIGH-POWER LEDS**
SMD LED
Typical rated electrical power 1W-3W

● **ULTRA-HIGH-POWER LEDS**
SMD LED
Typical rated electrical power 4W-12W

● **COB**
CHIPS ON BOARD
Integrated arrays on a ceramic or MCPCB

● **CSP**
CHIP SCALE PACKAGE LED
Normal mid & high power flip chips without a package

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 product datasheets.

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LISA | 6 | | | | | | ● | | | | | ● | | | | | | | | ● | | |
| LOTTA | 12 | | | | ● | ● | ● | | | | | ● | | | ● | | | | | | | |
| MINNIE | 41 | | | | | | ● | ● | | | ● | ● | | | | | | ● | | | | |
| MIRA | 10 | | | | | | ● | ● | | | ● | ● | | | | | | ● | | | | |
| MIRELLA | 37 | ● | ● | | | | ● | ● | | | ● | ● | | | | | | | | | | |
| MOLLY | 21 | ● | | | | | ● | | | | ● | | | | | | | | | | | |
| OLGA | 23 | ● | | | | | ● | | | | ● | ● | | | | | | | | | | |
| RGBX | 15 | | ● | | | | | | | | | ● | | | | | | | | | | |
| RITA | 41 | | ● | | | | ● | ● | | | | | | | | | | | | | | |
| RONDA | 20 | ● | | | ● | | ● | ● | | ● | ● | ● | | | | | | | | ● | | |
| ROSE | 8 | | | | | | | ● | | | | ● | | | | | | ● | | ● | | ● |
| SAGA | 23 | | | | | | | | | ● | ● | ● | | | ● | | | ● | | | | ● |
| SAKURA | 18 | ● | | | | | | | | | | | | | | | | | | | | ● |
| SANDRA | 26 | ● | | | | ● | | ● | | | ● | ● | | | | | | | | | | |
| SATU | 24 | | ● | | | | | | ● | | | ● | | | | | | | | | | |
| SEANNA | 14 | | ● | | | | | | | ● | | | | | | | | | | | | |
| SHELLY | 32 | | ● | | | | ● | ● | | | | | | | | | | | ● | ● | | |
| SIRI | 12 | | | | | | | | | | | ● | | | | | | ● | | | | |
| SITARA | 48 | | | | | | | | | | | | | ● | | | | | | | | |
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| SURI | 8 | | | | | | | | | ● | | | | | | | | | | | | |
| TAMPA | 25 | | | | | | | | ● | | | ● | | | | | | | | | | |
| TATIANA | 49 | | | | | | | | | | | | | ● | | | | | | | | |
| TINA | 7 | | | | | | ● | ● | | ● | ● | ● | | | | | | | ● | ● | | |
| TITANUM | 11 | | | | | | | | ● | | | ● | | | | | | | | | | |
| TUIJA | 26 | | | | | | | | ● | | | ● | | | | | | | | | | |
| TWIDDLE | 7 | | ● | | | | | | | | | ● | | | | | | | | | | |
| VANESSA | 31 | | | ● | | | ● | ● | | | | ● | | | | | | | | | | |
| VENLA | 13 | ● | | | | | | | | | ● | ● | | | | | | | | | | |
| VERONICA | 6 | | | | | | ● | | | ● | | ● | | | | | | ● | | ● | | |
| VICTORIA | 55 | | | | | | | | | ● | | | | | | | | | | | | |
| VIOLET | 31 | | | | | | | | | | | | ● | | | | | | | | | ● |
| VIRPI | 26 | | | | | | | | | ● | ● | ● | | | | | | | | | | |
| WINNIE | 22 | ● | | | | | ● | ● | | | ● | ● | | | | | | ● | | ● | | |
| YASMEEN | 19 | ● | | | ● | | ● | | | | ● | | | | | | | | | | | |
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| ZORYA-MINI | 23 | | ● | | | | ● | ● | | | | | | | | | | | | | | |

○ **ASK FOR COMPATIBILITY**

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Typical rated electrical power <1W

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Typical rated electrical power 1W-3W

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Integrated arrays on a ceramic or MCPCB

● **CSP**
CHIP SCALE PACKAGE LED
Normal mid & high power flip chips without a package

The information contained herein is the property of LEDiL Oy, Joensuunkatu 13, FI-24100 SALO, Finland, and is subject to change without prior notice.
Please visit www.ledil.com for additional information, such as the latest photometric files, 3D mechanical models, and application notes relating to handling, gluing and taping.

## LARISA

www.ledil.com/larisa

Compatibility: Up to 3535 size LED packages
Versions with CLIP or PIN mounting available

| name | beam type | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|
| LARISA-RS | real spot | 7.5 | 9.9 x 9.9 | 19 | 80 | 3.7 |
| LARISA-RZ | diffused spot | 7.5 | 9.9 x 9.9 | 27 | 77 | 1.9 |
| LARISA-M | medium | 7.5 | 9.9 x 9.9 | 32 | 86 | 2.2 |
| LARISA-W | wide | 7.5 | 9.9 x 9.9 | 48 | 85 | 1.2 |
| LARISA-WW | extra wide | 7.5 | 9.9 x 9.9 | 57 | 84 | 0.9 |
| LARISA-O | oval | 7.5 | 9.9 x 9.9 | 40 x 22 | 81 | 2.1 |

LARISA

## LISA

www.ledil.com/lisa

Compatibility: Up to 3535 size LED packages
Versions with CLIP or PIN mounting available

**LISA**

| name | beam type | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|
| LISA-RS | real spot | 7.1 | 10.8 | 15 | 90 | 3.9 |
| LISA-SS | smooth spot | 7.1 | 10.8 | 22 | 86 | 3.8 |

**LISA2**

| name | beam type | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|
| LISA2-RS | RS | ≈ 6,8 | 9.9 | 19 | 89 | 3.1 |
| LISA2-M | M | ≈ 6,8 | 9.9 | 22 | 89 | 2.8 |
| LISA2-O | O | ≈ 7 | ≈ 10 | 45 x 21 | 82 | 2.2 |
| LISA2-O-90 | O-90 | ≈ 6,8 | 9.9 | 19 x 48 | 82 | 2.2 |
| LISA2-W | W | ≈ 6,8 | ≈ 9.9 | 34 | 88 | 1.8 |
| LISA2-WW | WW | ≈ 6,8 | ≈ 9.9 | 46 | 89 | 1.1 |
| LISA2-WWW | WWW | ≈ 6,8 | ≈ 9.9 | 80 | 83 | 0.4 |
| LISA2-R-PIN | XW | 6.6 | 9.9 | 80 | 88 | 0.4 |

**LISA3 / LISA3CSP**

| name | beam type | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|
| -RS | real spot | 7 | 9.9 | 14 | 89 | 9.4 |
| -M | medium | 7 | 9.9 | 25 | 89 | 4.1 |
| -W | wide | 7 | 9.9 | 35 | 90 | 2.7 |
| -WW | extra wide | 7 | 9.9 | 45 | 90 | 1.5 |
| -WWW | extra² wide | 7 | 9.9 | 62 | 89 | 0.9 |
| -O | oval | 7 | 9.9 | 16 + 48 | 84 | 2.8 |

LISA-SS

LISA2-R-PIN

LISA3

## VERONICA

www.ledil.com/veronica-family

Compatibility: Up to 7070 size, SQ-MINI optics up to 3535 size packages

**VERONICA**

| name | beam type | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|
| VERONICA-RS | real spot | 12.2 | 26 | 12 | 90 | 18.4 |
| VERONICA-O | oval | 12.2 | 26 | 54 + 11 | 84 | 4.2 |

**VERONICA-SQ**

| name | beam type | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|
| VERONICA-SQ-RS | real spot | 12.2 | 22.5x22.5 | 13 | 89 | 18.8 |
| VERONICA-SQ-M | medium | 12.2 | 22.5x22.5 | 30 | 89 | 3.1 |
| VERONICA-SQ-W | wide | 12.2 | 22.5x22.5 | 52 | 92 | 1.2 |
| VERONICA-SQ-SE | side emitting | 11.4 | 22.5x22.5 | 189 | 91 | 2.7 |
| VERONICA-SQ-O | oval | 12.2 | 22.5x22.5 | 56+12 | 82 | 3.2 |

**VERONICA-SQ-MINI**

| name | beam type | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|
| VERONICA-SQ-MINI-RS | real spot | 8,86 | 13.9x13.9 | 14 | 92 | 11 |
| VERONICA-SQ-MINI-D | diffused spot | 8,86 | 13.9x13.9 | 15 | 92 | 7.3 |
| VERONICA-SQ-MINI-M | medium | 8,86 | 13.9x13.9 | 34 | 89 | 2.4 |
| VERONICA-SQ-MINI-W | wide | 8,86 | 13.9x13.9 | 56 | 91 | 0.9 |
| VERONICA-SQ-MINI-O | oval | 8,86 | 13.9x13.9 | 15+50 | 84 | 3.8 |

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 product datasheets.

## TWIDDLE

www.ledil.com/twiddle

Compatibility: Up to 3535 size LED packages

| name | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|
| TWIDDLE-RZ-D | 14.57 | 21.56 | 18 | 60 | 4.1 |
| TWIDDLE-RZ-M | 13.34 | 21.56 | 20 | 68 | 2.8 |
| TWIDDLE-D | 14.3 | 21.6 | 20 | 81 | 4.1 |
| TWIDDLE-M | 13.2 | 21.6 | 32 | 72 | 2.8 |

## TINA

www.ledil.com/tina

Compatibility: Up to 3535 size LED packages

### TINA

| name | beam type | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|
| TINA-RS | real spot | ≈ 10 | 16.1 | 13 | 93 | 10.9 |
| TINA-D | diffused spot | ≈ 10 | 16.1 | 16 | 92 | 6.1 |
| TINA-M | medium | ≈ 10 | 16.1 | 29 | 88 | 2.1 |
| TINA-W | wide | ≈ 10 | 16.1 | 48 | 91 | 1.3 |
| TINA-WW | extra wide | ≈ 10 | 16.1 | 61 | 91 | 0.8 |
| TINA-BW | batwing | ≈ 10 | 16.1 | asymm. | 80 | 1.0 |
| TINA-O | oval | ≈ 10 | 16.1 | 34 x 15 | 89 | 3.4 |

### TINA2

| name | beam type | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|
| TINA2-RS * | real spot | ≈ 10 | 16.1 | 14 | 91 | 10.4 |
| TINA2-D * | diffused spot | ≈ 10 | 16.1 | 16 | 89 | 6.9 |
| TINA2-SS | smooth spot | 9.26 | 16 | 22 | 88 | 4.5 |
| TINA2-M * | medium | ≈ 10 | 16.1 | 29 | 86 | 2.5 |
| TINA2-W * | wide | ≈ 10 | 16.1 | 46 | 87 | 1.4 |
| TINA2-WW | extra wide | ≈ 10 | 16.1 | 58 | 87 | 0.9 |
| TINA2-R | wide | 10.1 | 16.1 | 74 | 90 | 0.5 |
| TINA2-O*/TINA-O-90 | oval | ≈ 10 | 16.1 | 35 x 16 | 87 | 3.5 |
| TINA2-O-WAS * | asymm. oval | ≈ 10 | 16.1 | asymm. | 86 | 3.6 |

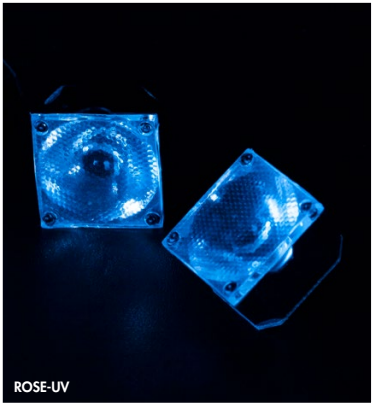
* Compatible with TINA-SC

### TINA3

| name | beam type | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|
| TINA3-S | S | 11.4 | 16.1 | 13 | 77 | 8.4 |
| TINA3-W | W | ≈ 7 | 16.1 | 39 | 90 | 1.7 |
| TINA3-WW | WW | ≈ 7 | 16.1 | 53 | 90 | 1.0 |
| TINA3-WWW | WWW | ≈ 7 | 16.1 | 71 | 88 | 0.6 |
| TINA3-OO | OO | ≈ 7 | ≈ 16.1 | 59 x 39 | 90 | 1.2 |

The information contained herein is the property of LEDiL Oy, Joensuunkatu 13, FI-24100 SALO, Finland, and is subject to change without prior notice.
Please visit www.ledil.com for additional information, such as the latest photometric files, 3D mechanical models, and application notes relating to handling, gluing and taping.

ROSE-MRK


ROSE-UV

SURI-RS

## ROSE

www.ledil.com/rose

### ROSE

Compatibility: LED packages up to 5050 size

| name | beam type | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|
| ROSE-RS | RS | 21.6 x 21.6 | 11 | 88 | 21.7 |
| ROSE-SS | SS | 21.6 x 21.6 | 15 | 87 | 9.4 |
| ROSE-D | D | 21.6 x 21.6 | 16 | 85 | 7.1 |
| ROSE-M | M | 21.6 x 21.6 | 30 | 83 | 2.5 |
| ROSE-W | W | 21.6 x 21.6 | 51 | 81 | 1.1 |
| ROSE-WW | WW | 21.6 x 21.6 | 59 | 81 | 0.8 |
| ROSE-WWW | WWW | 21.6 x 21.6 | 80 | 84 | 0.4 |
| ROSE-O | O | 21.6 x 21.6 | 43 x 15 | 81 | 3.1 |
| ROSE-O-90 | O-90 | 21.6 x 21.6 | 13 x 44 | 81 | 3.6 |

### ROSE-MRK

Compatibility: Ultra-high-power LED packages up to 7070 size

| name | beam type | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|
| ROSE-MRK-S | spot | 21.6 x 21.6 | 30 | 80 | 2.1 |
| ROSE-MRK-M | medium | 21.6 x 21.6 | 43 | 84 | 2.0 |
| ROSE-MRK-W | wide | 21.6 x 21.6 | 62 | 84 | 0.7 |
| ROSE-MRK-BW | batwing | 21.6 x 21.6 | 68 | 84 | 0.7 |

### ROSE-UV

UV-A-B

Compatibility: High-power UV-LED packages with dome up to 3535 size

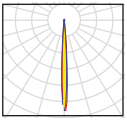
| name | beam type | h | d | typ. FWHM | typ. eff. |
|---|---|---|---|---|---|
| G2-NIS033U-S | spot | 12.9 | 21.6 x 21.6 | 20 | 92 |
| G2-NIS033U-M | medium | 12.9 | 21.6 x 21.6 | 25 | 91 |
| G2-NIS033U-W | wide | 12.9 | 21.6 x 21.6 | 43 | 91 |
| G2-ROSE-UV-SS | smooth spot | 12.9 | 21.6 x 21.6 | 14 | 90 |
| G2-ROSE-UV-M | medium | 12.9 | 21.6 x 21.6 | 25 | 88 |
| G2-ROSE-UV-W | wide | 12.9 | 21.6 x 21.6 | 40 | 90 |

## SURI

www.ledil.com/suri

Compatibility: Optimized for 3535 and compatible up to 7070 size LED packages

| name | d | h | typ. FWHM | typ. eff. | typ.cd/lm |
|---|---|---|---|---|---|
| SURI-RS | 38 | 24 | 6 | 91 | 65 |


SURI-RS

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 product datasheets.

## LAURA

www.ledil.com/laura

### LAURA

Compatibility: Up to 5050 size LED packages

| name | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|
| LAURA-RS | 13 | 21.6 x 21.6 | 8 | 93 | 30.5 |
| LAURA-SS | 13 | 21.6 x 21.6 | 11 | 91 | 14.5 |
| LAURA-D | 13 | 21.6 x 21.6 | 15 | 88 | 6.2 |
| LAURA-M | 13 | 21.6 x 21.6 | 29 | 88 | 2.5 |
| LAURA-W | 13 | 21.6 x 21.6 | 42 | 88 | 1.7 |
| LAURA-WW | 13 | 21.6 x 21.6 | 66 | 86 | 0.7 |
| LAURA-O | 13 | 21.6 x 21.6 | 40 x 12 | 88 | 4.3 |

### LAURA-G2

Thinner holder design. Backwards compatible with previous generations.
Compatibility: Up to 5050 size LED packages

| name | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|
| G2-LAURA-RS-P | 13.1 | 21.6 x 21.6 | 8 | 93 | 33.2 |
| G2-LAURA-SS-P | 13.1 | 21.6 x 21.6 | 11 | 93 | 16.5 |
| G2-LAURA-D-P | 13.1 | 21.6 x 21.6 | 13 | 93 | 9.3 |
| G2-LAURA-M-P | 13.1 | 21.6 x 21.6 | 30 | 92 | 2.6 |
| G2-LAURA-W-P | 13.1 | 21.6 x 21.6 | 46 | 91 | 1.6 |
| G2-LAURA-R-W-P | 13.1 | 21.6 x 21.6 | 70 | 81 | 0.8 |
| G2-LAURA-WW-P | 13.1 | 21.6 x 21.6 | 66 | 86 | 0.7 |
| G2-LAURA-R-XW-P | 13.1 | 21.6 x 21.6 | 72 | 86 | 0.6 |
| G2-LAURA-SS-WAS-P | 13.1 | 21.6 x 21.6 | asymm. | 92 | 11.6 |
| G2-LAURA-O-P | 13.1 | 21.6 x 21.6 | 40 x 13 | 91 | 4.8 |
| G2-LAURA-O-WAS-P | 13.1 | 21.6 x 21.6 | asymm. | 84 | 2.6 |
| G2-LAURA-O90-P | 13.1 | 21.6 x 21.6 | 15+40 | 90 | 4.4 |

G2-LAURA-O-WAS-P

LAURA-RS

## LEILA

www.ledil.com/leila

### LEILA

Compatibility: Up to 5050 size LED packages

| beam type name* | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|
| -RS2 | 14.6 | 21.6 | 8,5 | 90 | 22.1 |
| -RS ** | 14.6 | 21.6 | 9.6 | 94 | 23.1 |
| -W ** | 14.6 | 21.6 | 42 | 90 | 1.6 |
| -REC | 14.6 | 21.6 | 37 x 26 | 84 | 2.4 |
| -O | 14.6 | 21.6 | 39 x 11 | 88 | 4.8 |
| -O-90 ** | 14.6 | 21.6 | 11 x 39 | 89 | 4.6 |
| -WAS | 14.6 | 21.6 | asymm. | 84 | 4.0 |
| -D ** | 14.6 | 21.6 | 12 | 90 | 10.0 |
| -M ** | 14.6 | 21.6 | 25 | 92 | 4.8 |
| -O-WAS ** | 14.6 | 21.6 | asymm. | 84 | 3.8 |

### LEILA-G2

Thinner holder design. Backwards compatible with previous generations.
Compatibility: Up to 5050 size LED packages

| name | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|
| G2-LXP2-RS2-P | 14.7 | 21.6 | 8.5 | 90 | 22.1 |
| G2-LXP2-RS2 | 14.7 | 21.6 | 8.5 | 90 | 22.1 |
| G2-LXP2-D-P | 14.7 | 21.6 | 9.7 | 88 | 19.8 |
| G2-LXP2-D | 14.7 | 21.6 | 9.7 | 88 | 19.8 |
| G2-LXP2-M-P | 14.7 | 21.6 | 22 | 88 | 5.1 |
| G2-LXP2-M | 14.7 | 21.6 | 22 | 88 | 5.2 |

### LEILA-2X8

Compatibility: Up to 3535 size high power LED packages

| beam type name* | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|
| -RS | 14.6 | 21.6 | 8 | 94 | 13.3 |
| -RS2 | 14.6 | 21.6 | 9 | 85 | 21.0 |
| -M | 14.6 | 21.6 | 20 | 94 | 4.1 |
| -W | 14.6 | 21.6 | 40 | 94 | 1.8 |
| -O-WAS | 14.6 | 21.6 | TBA | TBA | TBA |
| -D | 14.6 | 21.6 | 11 | 94 | 10.2 |
| LEILA-FRAME-2X8 | 14.3 | 175 x 43 | | | |

LEILA LEILA-G2

LEILA-2X8

*Subject to the LED type, check www.ledil.com/leila for actual values. ** Compatible with LEILA-SC

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## IRIE

www.ledil.com/irie

Compatibility: Flat 2.75 x 2.0 mm high-power IR LEDs

| name | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|
| IRIE-A | 5.1 | 14 x 14 | asymm. | 94 | 1.5 |

## IRENE

www.ledil.com/irene

Compatibility: Up to 3535 size IR LED packages

| name | h | d | typ. FWHM |
|---|---|---|---|
| IRENE-IR-4 | 14.3 | 21.6 | 67 + 67 |
| IRENE-IR-8 | 14.3 | 21.6 | 32 + 32 |
| IRENE-IR-12 | 14.3 | 21.6 | 25 + 25 |
| IRENE-IR-16 | 14.3 | 21.6 | 17 + 17 |
| IRENE-IR-25 | 14.3 | 21.6 | 16 + 16 |

## IRIS

www.ledil.com/iris

Compatibility: Up to 7070 size LED packages

| name | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|
| IRIS-RS | ≈29 | 38 | 5 | 93 | 66 |
| IRIS-M | ≈29 | 38 | 26 | 86 | 2.7 |
| IRIS-O | ≈29 | 38 | 39 x 28 | 84 | 1.9 |

## BILLIE

www.ledil.com/billie-family

Compatibility: Up to 3535 size LED packages

| name | beam type | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|
| BILLIE-A | asymm. | 16.1 | 21.5 | asymm. | 88 | 2.1 |
| BILLIE-B | asymm. | 16.1 | 21.5 | asymm. | 93 | 2.2 |

## MIRA

www.ledil.com/mira

Available with or without holder

Compatibility: Up to 7070 size high power LED packages and small COBs up to 12 mm LES size

| name | beam type | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|
| MIRA-M | medium | 16 | 35 | 28 | 83 | 2.1 |
| MIRA-W | wide | 16 | 35 | 38 | 82 | 1.5 |
| MIRA-WW | extra wide | 16 | 35 | 58 | 83 | 0.9 |

## EVA

www.ledil.com/eva

Compatibility: Up to 7070 size LED packages

| name | beam type | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|
| EVA-S | spot | 16.4 | 37.7 | 10 | 93 | 11.9 |
| EVA-SS | smooth spot | 16.4 | 37.7 | 11 | 94 | 11.2 |
| EVA-D | diffused spot | 16.4 | 37.7 | 16 | 80 | 4.9 |
| EVA-M | medium | 16.4 | 37.7 | 24 | 89 | 3.2 |
| EVA-W | wide | 16.4 | 37.7 | 38 | 83 | 1.4 |
| EVA-WW | extra wide | 16.4 | 37.7 | 53 | 82 | 1.7 |
| EVA-O | oval | 16.4 | 37.7 | 38 + 17 | 85 | 3.1 |
| EVA-O-90 | oval | 16.4 | 37.7 | 17 + 40 | 86 | 3.3 |

IRIE

IRENE-IR-16

IRIS-O

BILLIE

MIRA-M

EVA-SS



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 product datasheets.

TITANUM-M

EMILY-WWW

HEIDI-W2

## TITANUM

www.ledil.com/titanum

Compatibility: Up to 3535 size LED packages

| name | beam type | d | typ. FWHM | typ. eff. |
|---|---|---|---|---|
| TITANUM-O-SS | smooth spot | 26 | 9 | 84 |
| TITANUM-O-M | medium | 26 | 25 | 87 |
| TITANUM-O-W | wide | 26 | 65 | 71 |
| TITANUM-O-O | oval | 26 | 35 x 8 | 89 |

## EMILY

www.ledil.com/emily

Compatibility: Up to 5050 size LED packages

| name | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|
| EMILY-RS | 14.8 | 26 | 8 | 90 | 29.5 |
| EMILY-D | 14.8 | 26 | 11 | 91 | 14 |
| EMILY-SS | 14.8 | 26 | 11 | 80 | 13.4 |
| EMILY-M | 14.8 | 26 | 18 | 91 | 7.4 |
| EMILY-M2 | 14.8 | 26 | 29 | 89,2 | 3.1 |
| EMILY-W | 14.8 | 26 | 39 | 86 | 1.5 |
| EMILY-WW | 14.8 | 26 | 44 | 93 | 1.7 |
| EMILY-WWW | 14.8 | 26 | 58 | 86 | 1 |
| EMILY-SS-WAS | 14.8 | 26 | 12 | 90 | 12 |
| EMILY-O-WAS | 14.8 | 26 | 43 x 10 | 87 | 3.6 |
| EMILY-O | 14.8 | 26 | 44 x 10 | 89 | 4.5 |
| EMILY-O-90 | 14.8 | 26 | 45 x 10 | 89 | 4.2 |

## HEIDI

www.ledil.com/heidi

Compatibility: Up to 3535 size LED packages

| name | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|
| HEIDI-RS | 21.6 | 8 | 92 | 21.8 |
| HEIDI-D | 21.6 | 10 | 90 | 14.8 |
| HEIDI-SS | 21.6 | 15 | 90 | 6.8 |
| HEIDI-M | 21.6 | 26 | 89 | 3.8 |
| HEIDI-W | 21.6 | 32 | 87 | 2.6 |
| HEIDI-W2 | 21.6 | 45 | 80 | 1.1 |
| HEIDI-O | 21.6 | 49 x 11 | 87 | 4.5 |
| HEIDI-O-90 | 21.6 | 13 x 44 | 87 | 4.7 |
| HEIDI-REC-90 | 21.6 | 36 + 57 | 78 | 1.3 |

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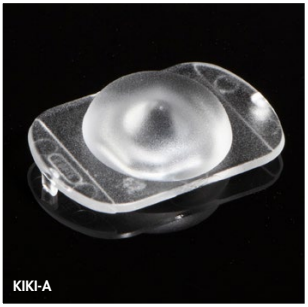
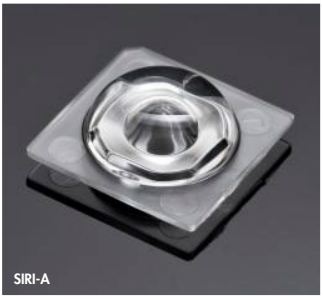

KIKI-A

JULIA-A

LOTTA-A

EMMA-360

STRADA-S


SIRI-A

## KIKI

www.ledil.com/kiki

Compatibility: Up to 3535 size LED packages

| name | beam type | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|
| KIKI-A | wide area lighting | 5.9 | 21.6 x 14 | 163 | 92 | 0.3 |

## JULIA

www.ledil.com/julia

Compatibility: Up to 3535 size LED packages

| name | beam type | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|
| JULIA-A | wide area lighting | 4.8 | 18.8 | 88 + 160 | 90 | 0.2 |

## LOTTA

www.ledil.com/lotta

Compatibility: Up to 3535 size LED packages

| name | beam type | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|
| LOTTA-A | wide area lighting | 3.6 | 19.6 x 15.4 | 168 | 88 | 0.3 |

## EMMA

www.ledil.com/emma

Compatibility: Up to 3535 size LED packages

| name | beam type | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|
| EMMA-360 | side emitter | 5.7 | 9.9 x 9.9 | 170 | 92 | 0.4 |

## STRADA-S

www.ledil.com/strada-s

Compatibility: Up to 3535 size LED packages

| name | beam type | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|
| STRADA-S | side emitter | 6.9 | 19.6 x 15.5 | 144+170 | 93 | 0.4 |

## SIRI

www.ledil.com/siri

Compatibility: Up to 3535 size LED packages

| name | beam type | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|
| SIRI-A | wide area lighting | 4.2 | 13.9 x 13.9 | 74 + 134 | 95 | 0.3 |
| SIRI-DOME | LED cover, no effect on the light | 4.9 | 13.9 x 13.9 | 144 | 97 | 0.2 |
| SIRI-DIFF | | 4.9 | 13.9 x 13.9 | 144 | 95 | 0.2 |

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 product datasheets.

LEIA

HELENA-A

NEW
EMERALD-ER1

VENLA-S-IRIS

## LEIA

www.ledil.com/leia

Compatibility: Designed for single chip 3535 LED packages, compatible with up to 7070 size LED packages

| name | beam type | h | d | typ. FWHM | typ. cd/lm |
|---|---|---|---|---|---|
| LEIA-S | ultra-narrow spot | 51.3 | 46.7 | 3 | 68.0 |
| LEIA-S + LEIA-SUB-O | narrow oval | 53 | 46.7 | 50 + 5 | 5.0 |
| **additional accessories** | | | | | |
| LEIA-SUB-O | narrow oval sublens | | | | |

## HELENA

www.ledil.com/helena

Compatibility: All LED types

| name | beam type | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|
| HELENA-A | medium | 11 | 72.8 | 19 | 68 | 4.0 |
| HELENA-B | medium | 11 | 72.8 | 24 | 74 | 2.1 |

## EMERALD

www.ledil.com/emerald

Compatibility:
- EMERALD: Up to 5050 size LED packages
- EMERALD-MAXI: Up to 7070 size LED packages

**EMERALD**

| name | | beam type | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|---|
| EMERALD-A | | rectangular | 7.3 | 21.6 | 150 x 20 | 89 | 1.9 |
| EMERALD-ER1 | NEW | rectangular | 7.8 | 21.6 | 155 x 30 | 86 | 1.6 |
| EMERALD-ER2 | NEW | rectangular | 9.3 | 21.6 | 130 x 20 | 86 | 1.8 |
| EMERALD-AP | NEW | wide area lighting | 6.9 | 21.6 | asymm. | 89 | 0.4 |

**EMERALD-MAXI**

| name | beam type | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|
| EMERALD-MAXI-A | wide area lighting | 12.2 | 33 x 25 | asymm. | 92 | 2.0 |

## VENLA

www.ledil.com/venla

Compatibility: Up to 7070 size LED packages

| name | beam type | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|
| VENLA-S-IRIS | spot | 27.2 | 45 | 16 | 90 | 8.0 |

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Please visit www.ledil.com for additional information, such as the latest photometric files, 3D mechanical models, and application notes relating to handling, gluing and taping.

FLARE-MAXI-T

CRYSTAL-RS

SEANNA-A

## FLARE

www.ledil.com/flarefamily

Compatibility:
- FLARE-MINI: Up to 3535 size packages
- FLARE: Up to 5050 size packages
- FLARE-MAXI: Up to 7070 size packages

| FLARE | | | | | |
|---|---|---|---|---|---|
| **name** | **h** | **d** | **typ. FWHM** | **typ. eff.** | **typ. cd/lm** |
| FLARE-B | 12.69 | 29 x 23 | 102 x 11 | 93 | 1.6 |
| FLARE-C | 14.55 | 24.5 x 24.5 | 87 x 8 | 93 | 3.2 |
| FLARE-C-D | 14.55 | 24.5 x 24.5 | 95 x 21 | 93 | 1.0 |
| LEDIL-FLARE | 16.2 | 23 x 25 | 138 x 20 | 92 | 1.3 |
| **FLARE-MINI** | | | | | |
| **name** | **h** | **d** | **typ. FWHM** | **typ. eff.** | **typ. cd/lm** |
| FLARE-MINI-AD | 8.6 | 16 | 98 x 19 | 94 | 1.1 |
| FLARE-MINI-AD-PIN | 8.6 | 16 | 98 x 19 | 94 | 1.1 |
| FLARE-MINI-A | 8.6 | 16 | 106 x 20 | 94 | 1.1 |
| FLARE-MINI-A-PIN | 8.6 | 16 | 106 x 20 | 94 | 1.0 |
| **FLARE-MAXI** | | | | | |
| **name** | **h** | **d** | **typ. FWHM** | **typ. eff.** | **typ. cd/lm** |
| FLARE-MAXI | 16.7 | 33.9 x 33.3 | 99 x 13 | 94 | 2.3 |
| FLARE-MAXI-D | 16.7 | 33.9 x 33.3 | 108 x 15 | 94 | 1.8 |
| FLARE-MAXI-T | 15.5 | 43 x 28.4 | 82+21 | 93 | 1.3 |

## CRYSTAL

www.ledil.com/crystal

Compatibility: Up to 7070 size LED packages

| **name** | **beam type** | **h** | **d** | **typ. FWHM** | **typ. eff.** | **typ. cd/lm** |
|---|---|---|---|---|---|---|
| CRYSTAL-RS | real spot | 28.7 | 49.7 | 5.1 | 89 | 67.9 |
| CRYSTAL-MINE | spot | 28.7 | 49.7 | 4.9 | 90 | 59.6 |

## SEANNA

www.ledil.com/seanna

Compatibility: Up to 7070 size LED packages

| **name** | **beam type** | **h** | **d** | **typ. FWHM** | **typ. eff.** |
|---|---|---|---|---|---|
| SEANNA-A | real spot | 79 | 152.6 | 2.3 | 87 |



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 product datasheets.

# RGBW MIXING

GABRIELLA

RGBX-M

## GABRIELLA

www.ledil.com/gabriella

TESTED FOR TUNABLE WHITE

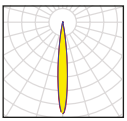
Compatibility: Optimized for 5050 sized and compatible with 7070 RGB LEDs

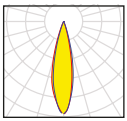
### GABRIELLA-45

| name | d | h | typ. FWHM | typ. eff. | typ.cd/lm |
|---|---|---|---|---|---|
| GABRIELLA-45-S | 45 | 29 | 9 | 90 | 24.0 |
| GABRIELLA-45-M | 45 | 29 | 25 | 86 | 5.0 |
| GABRIELLA-45-W | 45 | 29 | 36 | 81 | 2.2 |

### GABRIELLA-MIDI

| name | d | h | typ. FWHM | typ. eff. | typ.cd/lm |
|---|---|---|---|---|---|
| GABRIELLA-MIDI-S | 38 | 24 | 11 | 91 | 11.5 |
| GABRIELLA-MIDI-M | 38 | 24 | 24 | 88 | 4.0 |
| GABRIELLA-MIDI-W | 38 | 24 | 35 | 85 | 2.2 |
| GABRIELLA-MIDI-O | 38 | 24 | 11 + 33 | 87 | 6.2 |


S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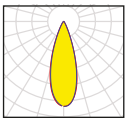
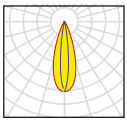

W


O

## RGBX

www.ledil.com/rgbx

TESTED FOR TUNABLE WHITE

Compatibility: Up to 5050 size RGB LEDs

| name | d | h | typ. FWHM | typ. eff. | typ.cd/lm |
|---|---|---|---|---|---|
| RGBX-SS | 28 | 30 | 20 | 85 | 3.8 |
| RGBX-M | 28 | 30 | 30 | 70 | 1.3 |
| RGBX2-S | 28 | 30 | 20 | 77 | 4.6 |
| RGBX2-M | 28 | 30 | 34 | 68 | 1.5 |
| RGBX2-O | 28 | 30 | 48 + 24 | 66 | 1.5 |

The information contained herein is the property of LEDiL Oy, Joensuunkatu 13, FI-24100 SALO, Finland, and is subject to change without prior notice.
Please visit www.ledil.com for additional information, such as the latest photometric files, 3D mechanical models, and application notes relating to handling, gluing and taping.

**NEW**

*Versatile low profile lens family for compact luminaires. Optimal solution for low profile track and downlights.*

AMY-50

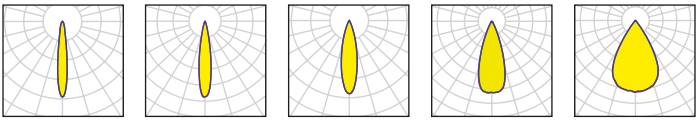
## AMY

www.ledil.com/amy **NEW**

KONNTAKT

Compatibility:
- Compatible with up to 10mm LES size COBs
- Fits LEDiL HEKLA and BJB connectors
- Available with or without holder

| name | | beam type | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|
| AMY-50-S2 | **COMING** | S | 50 x 50 | 15 | 90 | 4.2 |
| AMY-50-S | | S | 50 x 50 | 18 | 90 | 6.7 |
| AMY-50-M | | M | 50 x 50 | 24 | 92 | 4.0 |
| AMY-50-W | | W | 50 x 50 | 35 | 89 | 2.1 |
| AMY-50-WW | | WW | 50 x 50 | 59 | 90 | 1.0 |



AMY-50-S2 AMY-50-S AMY-50-M AMY-50-W AMY-50-WW



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 product datasheets.

**PATENT PENDING**

ILONA-ZOOM

## ILONA

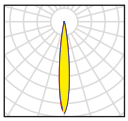
www.ledil.com/ilona

TESTED FOR TUNABLE WHITE

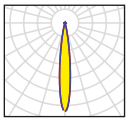
KONNTAKT

Compatibility:
- Optimized for 6-9 mm and compatible with up to 14.5 mm LES size COBs
- LEDiL HEKLA baseparts (page 43)

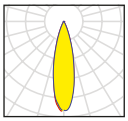
| name | d | h | typ. FWHM | typ. eff. | typ.cd/lm |
|---|---|---|---|---|---|
| ILONA-RS | 50 | 29.15 | 10 | 94 | 15.0 |
| ILONA-SS | 50 | 29.30 | 14 | 90 | 12.0 |
| ILONA-M | 50 | 29.66 | 25 | 92 | 4.5 |
| ILONA-W | 50 | 29.70 | 36 | 89 | 2.0 |
| ILONA-WW | 50 | 29.44 | 57 | 84 | 1.0 |
| ILONA-ZOOM | 52.5 | 33.22 | 13 to 48 | 82 | 9.5-1.0 |



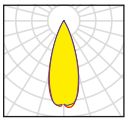
ILONA-RS



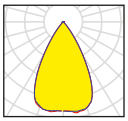
ILONA-SS



ILONA-M

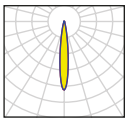


ILONA-W

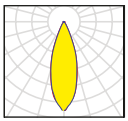


ILONA-WW

ILONA-ZOOM



Spot | 13.5°



Half | 34°

Full | 46°

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SAKURA

## SAKURA

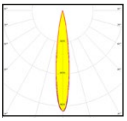
www.ledil.com/sakura

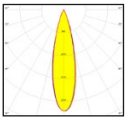
Compatibility: Optimized for 14.5 mm and compatible with up 22 mm LES size COBs

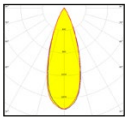
| name | d | h | typ. FWHM | typ. eff. | typ.cd/lm |
|---|---|---|---|---|---|
| SAKURA-70-S | 70 | 33.1 | 15 | 85 | 10.2 |
| SAKURA-70-M | 70 | 33.1 | 26 | 83 | 3.5 |
| SAKURA-70-W | 70 | 33.1 | 36 | 80 | 1.8 |

UV-A

TESTED FOR TUNABLE WHITE


SAKURA-70-S


SAKURA-70-M


SAKURA-70-W

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 product datasheets.

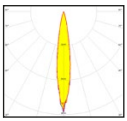
## YASMEEN

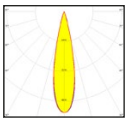
www.ledil.com/yasmeen **NEW**

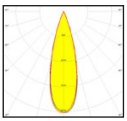
TESTED FOR TUNABLE WHITE
KONNTAKT

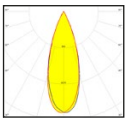
Compatibility:
- Ø30 mm: Up to 7070 size LED packages
- Ø50 mm: LES 6-10 mm
- Ø70 mm: LES 10-14.5 mm
- LEDiL HEKLA (with holder C)
- BJB connectors (with holder B)

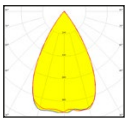
| name | d | h | typ. FWHM | typ. eff. | typ.cd/lm |
|---|---|---|---|---|---|
| YASMEEN-30-RS | 30 | 18.2 | 11 | 92 | 22.7 |
| YASMEEN-50-S | 50 | 30.5 | 15 | 85 | 8.0 |
| YASMEEN-50-M | 50 | 30.5 | 26 | 85 | 5.0 |
| YASMEEN-50-W | 50 | 30.5 | 36 | 85 | 2.0 |
| YASMEEN-50-WW | 50 | 30.5 | 60 | 85 | 1.0 |
| YASMEEN-70-S | 70 | 39.9 | 15 | 85 | 12.0 |
| YASMEEN-70-M | 70 | 39.9 | 24 | 85 | 5.0 |
| YASMEEN-70-W | 70 | 39.9 | 36 | 85 | 2.0 |
| YASMEEN-70-WW | 70 | 39.9 | 60 | 85 | 1.0 |


YASMEEN-30-RS


YASMEEN-50/70-S


YASMEEN-50/70-M


YASMEEN-50/70-W


YASMEEN-50/70-WW

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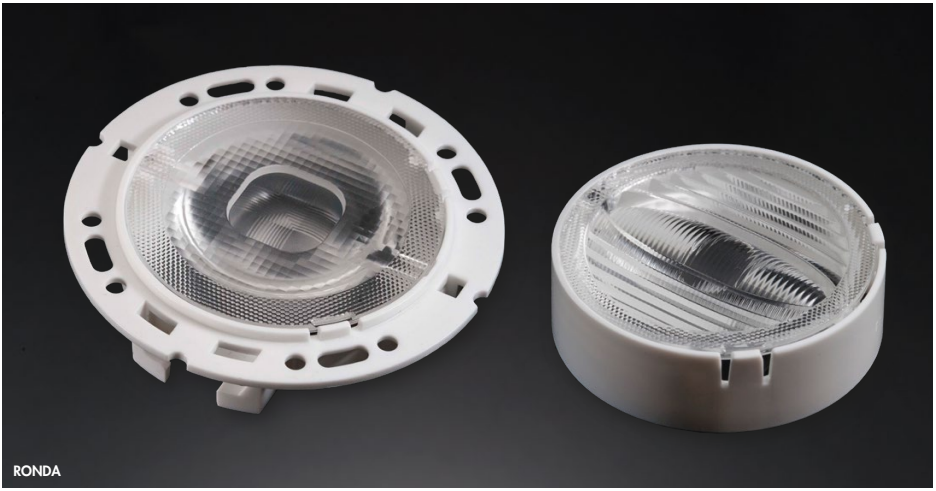


RONDA

## RONDA

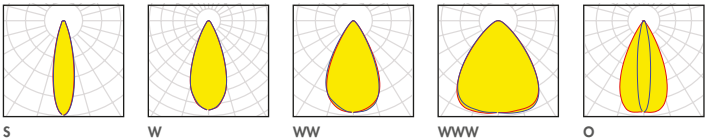
www.ledil.com/ronda

Compatibility:

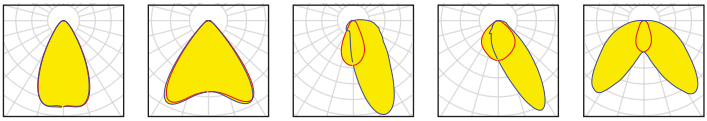
- LES sizes up to 16 mm, asymmetric up to 14.5 mm
- Holder A: LEDiL baseparts with A-interface (page 42)
  Holder B: 3rd party baseparts compatible with B-interface (page 42)
  Holder C: LEDiL HEKLA baseparts (page 43)

KONNTAKT

| name | beam type | d (hld A/B) | d (hld C) | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|
| RONDA-S | spot | 69.9 | 53.9 | 27 | 85 | 1.8 |
| RONDA-W | wide | 69.9 | 53.9 | 43 | 87 | 1.6 |
| RONDA-WW | extra wide | 69.9 | 53.9 | 62 | 89 | 0.8 |
| RONDA-WWW | extra² wide | 69.9 | 53.9 | 90 | 87 | 0.5 |
| RONDA-REC-60 | rectangular | 69.9 | 53.9 | 58 + 58 | 89 | 0.8 |
| RONDA-REC-90 | rectangular | 69.9 | 53.9 | 80 | 87 | 0.5 |
| RONDA-O | oval | 69.9 | 53.9 | 49 + 30 | 86 | 1.4 |
| RONDA-WAS | asymm. | 69.9 | 53.9 | asymm. | 86 | 1.1 |
| RONDA-WAS2 | asymm. | 69.9 | 53.9 | asymm. | 89 | 0.9 |
| RONDA-ZT45 | double asymmetric | 69.9 | 53.9 | asymm. | 85 | 0.5 |



S W WW WWW O



REC-60 REC-90 WAS WAS2 ZT45



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 product datasheets.

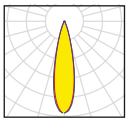
MOLLY

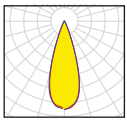
## MOLLY

www.ledil.com/molly

Compatibility:
- Optimized for 14.5 mm LES and compatible up to 19 mm LES
- LEDiL baseparts with A-interface (page 42)
- B-versions: 3rd party baseparts compatible with B-interface (page 42)

| name | beam type | h | d | typ. FWHM |
|---|---|---|---|---|
| MOLLY-S | spot | 24.8 | 69.8 | 25 |
| MOLLY-M | medium | 23.6 | 69.8 | 37 |
| MOLLY-W | wide | 22.1 | 69.8 | 60 |


S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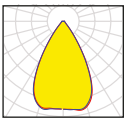
W

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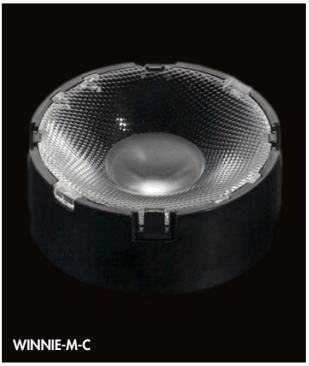
CARMEN-50

WINNIE-M


WINNIE-M-C

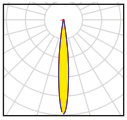
## CARMEN

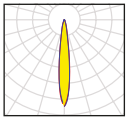
www.ledil.com/carmen

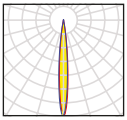
Compatibility:
- CARMEN-50: LES sizes up to 10 mm
  CARMEN-70: LES sizes up to 11 mm
- Holder B: (CARMEN-70-S, -M, -W): 3rd party baseparts compatible with B-interface (page 42)
  Holder C: LEDiL HEKLA baseparts (page 43)
- CARMEN-70-SHD: CARMEN-RS and -SS

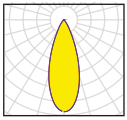
KONNTAKT

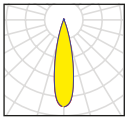
| name | beam type | h | d |
|---|---|---|---|
| CARMEN-50/70-RS | real spot | 25.5 / 36.3 | 50 / 70 |
| CARMEN-50/70-S | spot | 25.5 / 36.3 | 50 / 70 |
| CARMEN-50/70-M | medium | 25.5 / 36.3 | 50 / 70 |
| CARMEN-70-M2 | medium | 36.3 | 70 |
| CARMEN-50/70-W | wide | 25.5 / 36.3 | 50 / 70 |
| CARMEN-50/70-RS-WHT | real spot | 25.5 / 36.3 | 50 / 70 |
| CARMEN-50/70-S-WHT | spot | 25.5 / 36.3 | 50 / 70 |
| CARMEN-50/70-M-WHT | medium | 25.5 / 36.3 | 50 / 70 |
| CARMEN-50/70-W-WHT | wide | 25.5 / 36.3 | 50 / 70 |

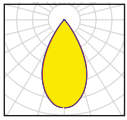

RS


S


SS


M


M2


W

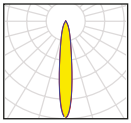
## WINNIE

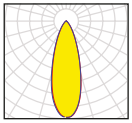
www.ledil.com/winniefamily

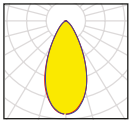
Compatibility:
- COBs with LES sizes up to 21 mm
- WINNIE-HOLDER: 3rd party baseparts compatible with B-interface (page 42)
- Holder-C: LEDiL HEKLA baseparts (page 43)

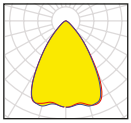
KONNTAKT

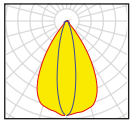
| name | beam type | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|
| WINNIE-S | spot | 19.3 | 49.8 | 22 | 88 | 3.4 |
| WINNIE-M | medium flood | 19.3 | 49.8 | 35 | 86 | 1.8 |
| WINNIE-W | wide flood | 19.3 | 49.8 | 50 | 88 | 1.3 |
| WINNIE-WW | extra wide flood | 19.3 | 49.8 | 70 | 83 | 0.7 |
| WINNIE-O | oval | 19.3 | 49.8 | 63 + 24 | 89 | 1.5 |


S


M


W

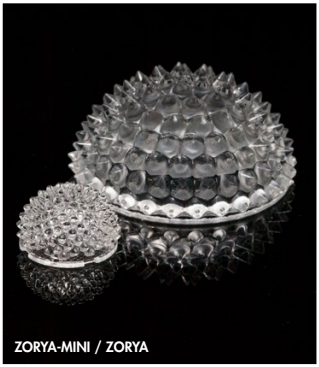

WW


O



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 product datasheets.

SAGA-HB-IP-WHT


ZORYA-MINI / ZORYA

OLGA-S

## SAGA

www.ledil.com/sagafamily

UV-A-B

Compatibility:
- COB's with LES sizes up to 14 mm
- 3rd party connectors from Bender+Wirth

| name | beam type | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|
| SAGA-HB-IP-WHT | high bay | 12 | 50 | 62 | 90 | 0.8 |

## ZORYA

www.ledil.com/zorya

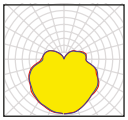
UV-A-B-C

KONNTAKT

Compatibility
- ZORYA-SC: LES sizes from 6 mm to 24 mm
- ADAPTER-B: 3rd party baseparts with B-interface (page 42)
  ADAPTER-C: LEDiL HEKLA baseparts (page 43)
- ZORYA-MINI: For high power LEDs up to 7070 size packages

| ZORYA | | | | | |
|---|---|---|---|---|---|
| **name** | | **h** | **d** | **typ. eff.** | **typ. FWHM** |
| ZORYA-SC | | 35 | 55 | 94 | 245 |
| ZORYA-SC-B | BJB 47.319.2021 compatible | 35 | 55 | 97 | 245 |
| ZORYA-SC-C | HEKLA compatible | 35 | 55 | 94 | 245 |

| ZORYA-MINI | | | | | |
|---|---|---|---|---|---|
| **name** | | **h** | **d** | **typ. eff.** | **typ. FWHM** |
| ZORYA-MINI | PC lens | 14.6 | 22 | 98 | 145 |

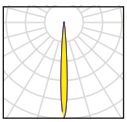

ZORYA-SC

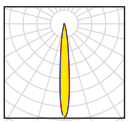
## OLGA

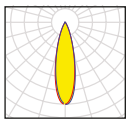
www.ledil.com/olga

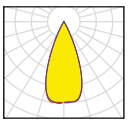
Compatibility: Up to 7070 size LED packages

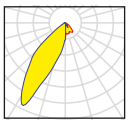
| name | d | h | typ. FWHM | typ. eff. | typ.cd/lm |
|---|---|---|---|---|---|
| OLGA-RS | 30 / 32 | 18.5 / 19.1 | 9 | 92 | 25.0 |
| OLGA-S | 30 / 32 | 18.5 / 19.1 | 11 | 87 | 13.6 |
| OLGA-M | 30 / 32 | 18.5 / 19.1 | 25 | 85 | 2.8 |
| OLGA-W | 30 / 32 | 18.5 / 19.1 | 40 | 89 | 2.2 |
| OLGA-WAS | 30 / 32 | 18.5 / 19.1 | asymm. | 81 | 1.1 |
| OLGA-O | 30 / 32 | 18.5 / 19.1 | 10 + 40 | 90 | 5.0 |

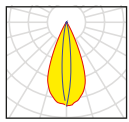

OLGA-RS


OLGA-S


OLGA-M


OLGA-W


OLGA-WAS


OLGA-O

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Please visit www.ledil.com for additional information, such as the latest photometric files, 3D mechanical models, and application notes relating to handling, gluing and taping.

## SATU

www.ledil.com/satu

Compatibility: Up to 3535 size LED packages

| name | beam type | LEDs | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|---|
| SATU-S | spot | 3 | 8.9 | 21.8 | 19 | 90 | 4.9 |
| SATU-M | medium | 3 | 8.9 | 21.8 | 27 | 91 | 2.9 |
| SATU-W | wide | 3 | 8.9 | 21.8 | 33 | 86 | 1.9 |
| SATU-O | oval | 3 | 8.9 | 21.8 | 42 x 22 | 86 | 2.5 |

## CUTE

www.ledil.com/cute

Compatibility: Up to 5050 size packages

### CUTE-3

| name | beam type | LEDs | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|---|
| CUTE-3-S | S | 3 | 15 | 35 | 11 | 94 | 5.7 |
| CUTE-3-SS | SS | 3 | 15 | 35 | 12 | 90 | 11.3 |
| CUTE-3-M | M | 3 | 15 | 35 | 24 | 88 | 3.8 |
| CUTE-3-W | W | 3 | 15 | 35 | 39 | 83 | 1.6 |
| CUTE-3-WW | WW | 3 | 15 | 35 | 58 | 93 | 0.8 |

## GT3

www.ledil.com/gt3

Compatibility: Up to 3535 size LED packages

| name | beam type | LEDs | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|---|
| GT3-S | S | 3 | 9 | 35 | 18 | 90 | 4.5 |
| GT3-M | M | 3 | 9 | 35 | 30 | 89 | 2.2 |
| GT3-W | W | 3 | 9 | 35 | 40 | 88 | 1.6 |
| GT3-WW | WW | 3 | 9 | 35 | 47 | 90 | 1.1 |

## GT4

www.ledil.com/gt4

Compatibility: Up to 3535 size LED packages

| name | beam type | LEDs | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|---|
| GT4-S | S | 4 | 9 | 35 | 21 | 90 | 3.3 |
| GT4-M | M | 4 | 9 | 35 | 28 | 88 | 2.5 |
| GT4-W | W | 4 | 9 | 35 | 38 | 89 | 1.7 |
| GT4-WW | WW | 4 | 9 | 35 | 53 | 90 | 1.1 |

SATU-O

CUTE

GT3-M

GT4



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 product datasheets.

## ANGIE

www.ledil.com/angie

Compatibility: Up to 3535 size LED packages

| name | beam type | LEDs | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|---|
| ANGIE-S | S | | 10,7 | 34 | 12 | 93 | 11.8 |
| ANGIE-M2 | M2 | | 10,7 | 34 | 26 | 88 | 3.3 |
| ANGIE-W | W | | 10,7 | 34 | 29 | 84 | 2.4 |

## TAMPA

www.ledil.com/tampa

Compatibility: Up to 3535 size LED packages

| name | beam type | LEDs | h | d | typ. FWHM | typ. eff. |
|---|---|---|---|---|---|---|
| NIS83-MX-7-M | M | 7 | 11.4 | 38 | 20 | 90 |
| NIS83-MX-7-W | W | 7 | 11.4 | 38 | 37 | 89 |
| NIS83-MX-7-WW | WW | 7 | 11.4 | 38 | 57 | 87 |

## ANNA

www.ledil.com/anna

Compatibility: Up to 3535 size LED packages

### ANNA-40

| name | beam type | LED sources | d | h | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|---|
| ANNA-40-5-S | S | 5 | 40 | 10.7 | 15 | 91 | 8.5 |
| ANNA-40-6-S | | 6 | | | | | |
| ANNA-40-7-S | | 7 | | | | | |
| ANNA-40-6-M | M | 6 | 40 | 10.7 | 22 | 88 | 3.7 |
| ANNA-40-7-M | | 7 | | | | | |
| ANNA-40-7-M2 | M | 7 | 40 | 10.7 | 25 | 87 | 3.2 |
| ANNA-40-4-W | W | 4 | 40 | 10.7 | 32 | 86 | 1.9 |
| ANNA-40-6-W | | 6 | | | | | |
| ANNA-40-7-W | | 7 | | | | | |
| ANNA-40-7-WW | WW | 7 | 40 | 12.5 | 64 | 90 | 0.9 |

### ANNA-50

| name | beam type | LED sources | d | h | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|---|
| ANNA-50-3-S | S | 3 | 50 | 10.7 | 15 | 91 | 8.5 |
| ANNA-50-7-S | | 7 | | | | | |
| ANNA-50-3-M | M | 3 | 50 | 10.7 | 22 | 88 | 3.7 |
| ANNA-50-7-M | | 7 | | | | | |
| ANNA-50-3-W | W | 3 | 50 | 10.7 | 32 | 86 | 1.9 |
| ANNA-50-4-W | | 4 | | | | | |
| ANNA-50-6-W | | 6 | | | | | |
| ANNA-50-7-W | | 7 | | | | | |

ANGIE-S

NIS83-MX-7-M

ANNA-40-7-M

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Please visit www.ledil.com for additional information, such as the latest photometric files, 3D mechanical models, and application notes relating to handling, gluing and taping.

## TUIJA

www.ledil.com/tuija

Compatibility: Up to 3535 size LED packages

| name | beam type | LEDs | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|---|
| TUIJA-3-SS | smooth spot | 3 | 14.5 | 50 | 12 | 90 | 12.9 |
| TUIJA-3-M | medium | 3 | 14.5 | 50 | 16 | 84 | 5.6 |
| TUIJA-3-M2 | medium | 3 | 14.5 | 50 | 35 | 87 | 2 |
| TUIJA-3-W | wide | 3 | 14.5 | 50 | 53 | 86 | 0.9 |

## SANDRA

www.ledil.com/sandra

Compatibility: Up to 3535 size LED packages

| name | beam type | LEDs | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|---|
| SANDRA-12-S | spot | 12 | 11.1 | 67 | 14 | 91 | 13.2 |
| SANDRA-12-M | medium | 12 | 11.1 | 67 | 28 | 88 | 2.4 |
| SANDRA-12-W | wide | 12 | 11.1 | 67 | 31 | 88 | 2.4 |
| SANDRA-12-O | oval | 12 | 11.1 | 67 | 42 + 19 | 90 | 2.8 |

## VIRPI

www.ledil.com/virpifamily

Compatibility: Up to 3535 size LED packages

| name | beam type | LEDs | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|---|
| VIRPI-S | spot | 25 | 9.4 | 74.9 x 74.9 | 15 | 94 | 7.5 |
| VIRPI-M | medium | 25 | 9.4 | 74.9 x 74.9 | 29 | 92 | 2.7 |
| VIRPI-W | wide | 25 | 9.4 | 74.9 x 74.9 | 42 | 91 | 1.6 |

## IDA

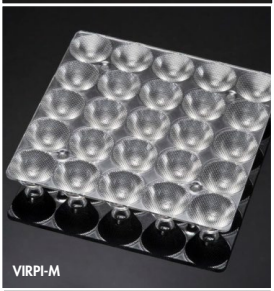
www.ledil.com/idafamily

Compatibility: Up to 3535 size mid-power LED packages

| name | beam type | LEDs | h | d | typ. FWHM | typ. eff. |
|---|---|---|---|---|---|---|
| IDA16-M | narrow | 16 | 9.2 | 50 x 50 | 40 | 92 |
| IDA16-WW | very wide | 16 | 9.2 | 50 x 50 | 71 | 93 |
| IDA16-O | oval | 16 | 9.2 | 50 x 50 | 90 + 33 | 92 |

TUIJA

SANDRA-12-O


VIRPI-M

IDA16-WW



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 product datasheets.

## FLORENTINA

www.ledil.com/florentinafamily

### FLORENTINA-12X1

Compatibility: LEDiL standard TINA/TINA2 lenses (up to 3535 LED size packages)

| name | beam type | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|
| FLORENTINA-HLD-RS | real spot | 25.1 | 29 x 287 | 11 | 84 | 16.7 |
| FLORENTINA-HLD-D | diffused spot | 25.1 | 29 x 287 | 13 | 84 | 9.6 |
| FLORENTINA-HLD-SS | smooth spot | 25.1 | 29 x 287 | 21 | 85 | 5.9 |
| FLORENTINA-HLD-M | medium | 25.1 | 29 x 287 | 29 | 81 | 3.3 |
| FLORENTINA-HLD-W | wide | 25.1 | 29 x 287 | 42 | 84 | 1.8 |
| FLORENTINA-HLD-WW | extra wide | 25.1 | 29 x 287 | 50 | 78 | 1.1 |
| FLORENTINA-HLD-BW | batwing | 25.1 | 29 x 287 | 60 | 81 | 1.0 |
| FLORENTINA-HLD-O | oval | 25.1 | 29 x 287 | 35 + 12 | 83 | 5.1 |

### FLORENTINA-1

Compatibility: LEDiL standard ROSE lenses up to 5050 size and ROSE-MRK lenses up to 7070 size LED packages

| name | beam type | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|
| FLORENTINA-1-RS-60 | real spot | 31.9 | 40 x 40 | 16 | 80 | 9.3 |
| FLORENTINA-1-SS-60 | smooth spot | 31.9 | 40 x 40 | 18 | 83 | 7 |
| FLORENTINA-1-D-60 | diffused spot | 31.9 | 40 x 40 | 21 | 77 | 5.1 |
| FLORENTINA-1-M-60 | medium | 31.9 | 40 x 40 | 31 | 78 | 2.6 |
| FLORENTINA-1-W-60 | wide | 31.9 | 40 x 40 | 44 | 71 | 1.3 |
| FLORENTINA-1-O-60 | oval | 31.9 | 40 x 40 | 44 + 20 | 72 | 2.8 |
| FLORENTINA-1-MRK-S-60 | spot | 31.9 | 40 x 40 | 26 | 68 | 2.3 |
| FLORENTINA-1-MRK-M-60 | medium | 31.9 | 40 x 40 | 40 | 75 | 1.4 |
| FLORENTINA-1-MRK-W-60 | wide | 31.9 | 40 x 40 | 57 | 70 | 0.7 |
| FLORENTINA-1-MRK-BW | batwing | 31.9 | 40 x 40 | 60 | 63 | 0.7 |

### FLORENTINA-2X2

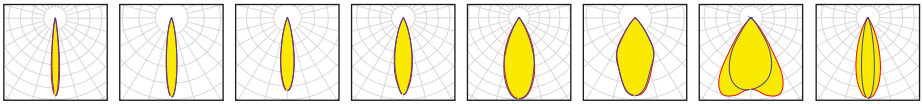
Compatibility: LEDiL standard ROSE lenses up to 5050 size and ROSE-MRK lenses up to 7070 size LED packages

| name | beam type | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|
| FLORENTINA-2X2-RS | real spot | 28.5 | 95.6 x 95.6 | 16 | 78 | 7.4 |
| FLORENTINA-2X2-D | diffused spot | 28.5 | 95.6 x 95.6 | 19 | 77 | 5.5 |
| FLORENTINA-2X2-SS | smooth spot | 28.5 | 95.6 x 95.6 | 20 | 79 | 5.4 |
| FLORENTINA-2X2-M | medium | 28.5 | 95.6 x 95.6 | 30 | 75 | 2.4 |
| FLORENTINA-2X2-W | wide | 28.5 | 95.6 x 95.6 | 49 | 70 | 1.0 |
| FLORENTINA-2X2-O | oval | 28.5 | 95.6 x 95.6 | 44 + 18 | 70 | 2.5 |
| FLORENTINA-2X2-MRK-S | spot | 28.5 | 95.6 x 95.6 | 28 | 68 | 2.1 |
| FLORENTINA-2X2-MRK-M | medium | 28.5 | 95.6 x 95.6 | 42 | 74 | 1.4 |
| FLORENTINA-2X2-MRK-W | wide | 28.5 | 95.6 x 95.6 | 53 | 94 | 0.7 |
| FLORENTINA-2X2-MRK-BW | batwing | 28.5 | 95.6 x 95.6 | 64 | 63 | 0.7 |

### FLORENTINA-4X1

Compatibility: LEDiL standard ROSE lenses up to 5050 size and ROSE-MRK lenses up to 7070 size LED packages

| name | beam type | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|
| FLORENTINA-4X1-RS | real spot | 28.5 | 175.6 x 55.6 | 10 | 82 | 19.0 |
| FLORENTINA-4X1-SS | smooth spot | 28.5 | 175.6 x 55.6 | 16 | 81 | 8.5 |
| FLORENTINA-4X1-D | diffused spot | 28.5 | 175.6 x 55.6 | 18 | 77 | 6.6 |
| FLORENTINA-4X1-M | medium | 28.5 | 175.6 x 55.6 | 30 | 75 | 2.4 |
| FLORENTINA-4X1-W | wide | 28.5 | 175.6 x 55.6 | 36 | 69 | 1.5 |
| FLORENTINA-4X1-O | oval | 28.5 | 175.6 x 55.6 | 44 + 15 | 74 | 3.0 |
| FLORENTINA-4X1-MRK-S | spot | 28.5 | 175.6 x 55.6 | 28 | 77 | 2.1 |
| FLORENTINA-4X1-MRK-M | medium | 28.5 | 175.6 x 55.6 | 39 | 75 | 1.5 |
| FLORENTINA-4X1-MRK-W | wide | 28.5 | 175.6 x 55.6 | 49 | 73 | 0.8 |
| FLORENTINA-4X1-MRK-BW | batwing | 28.5 | 175.6 x 55.6 | 64 | 63 | 0.7 |



RS D SS M W WW BW O

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## FLORENCE

www.ledil.com/florence-family

### FLORENCE-1R

Compatibility: Mid-power LEDs up to 5630 package size

| name | beam type | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|
| FLORENCE-1R-Z60 | medium | 58 + 111 | 94 | 0.6 |
| FLORENCE-1R-Z90 | extra wide | 90 + 110 | 94 | 0.4 |
| FLORENCE-1R-ZT25 | asymmetric | asymm. | 86 | 1.0 |
| FLORENCE-1R-Z2T25 | double asymmetric | 106 + 80 | 92 | 0.5 |
| FLORENCE-1R-O | oval | 96 + 32 | 94 | 0.9 |
| FLORENCE-1R-MAXI-WG | asymmetric | asymm. | 94 | 1.4 |
| FLORENCE-1R-UP | wide area lighting | asymm. | 90 | 0.4 |
| FLORENCE-1R-UP-D | wide area lighting | asymm. | 90 | 0.3 |
| FLORENCE-1R-CLIP-A | clip for installation with 40 mm wide boards | | | |
| FLORENCE-1R-CLIP-B | clip for installation on a profile | | | |
| FLORENCE-1R-CLIP-C | clip for fastening of FLORENCE-1R optics and 24 mm wide Zhaga modules | | | |

### FLORENCE-1R-GC

Compatibility: Mid-power LEDs up to 5630 package size

| name | beam type | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|
| FLORENCE-1R-GC-Z60 | wide | 70 | 94 | 0.7 |
| FLORENCE-1R-GC-Z90 | rectangular | 90 | 94 | 0.5 |
| FLORENCE-1R-GC-ZT25 | asymmetric | asymm. | 92 | 0.8 |

### FLORENCE-3R

Compatibility: Range of 3 x 11 high-power LED modules with up to 5050 size packages

| name | beam type | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|
| FLORENCE-Z30 | medium | 29 | 94 | 2.2 |
| FLORENCE-Z60 | wide | 58 | 88 | 0.8 |
| FLORENCE-Z90 | extra wide | 92 | 86 | 0.4 |
| FLORENCE-Z90-B | extra wide | 92 | 90 | 0.4 |
| FLORENCE-O | oval | 84 + 35 | 89 | 0.7 |
| FLORENCE-ZT25 | asymmetric | asymm. | 94 | 0.6 |
| FLORENCE-ZT25-S | single-sided asymmetric oval | asymm. | 94 | 0.6 |
| FLORENCE-3R-SHD-BLK | black shade to obtain lower UGR | | | |
| FLORENCE-3R-SHD-GR | grey shade to obtain lower UGR | | | |
| FLORENCE-3R-SHD-WHT | white shade | | | |

### FLORENCE-3R-IP

Compatibility: Range of 3 x 11 mid-power LED modules up to 5630 size packages

| name | beam type | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|
| FLORENCE-3R-IP-Z60 | wide | 60 | 86 | 0.7 |
| FLORENCE-3R-IP-Z90 | extra wide | 90 | 88 | 0.4 |
| FLORENCE-3R-IP-O | oval | 84 + 40 | 86 | 0.7 |

### FLORENCE2

Compatibility: All Zhaga 3R PCBs including 2ft PCBs

| name | beam type | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|
| FLORENCE2-Z90 | extra wide | 85 | 94 | 0.6 |
| FLORENCE2-Z60 | wide | 52 | 92 | 1.2 |

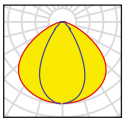


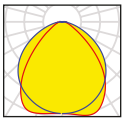
FWHM angles, efficiencies and cd/lm values contained herein are typical values. Actual measured values depend of the specific LED/optic combination.
Go to www.ledil.com for LED specific values and product datasheets.

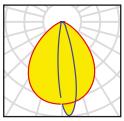
## FLORENCE

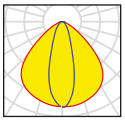
www.ledil.com/florence-family

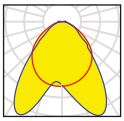
### FLORENCE-1R

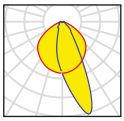

1R-Z60

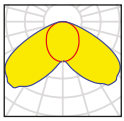

1R-Z90


1R-MAXI-WG

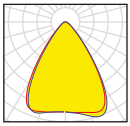

1R-O

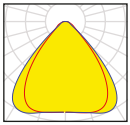

1R-Z2T25

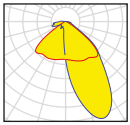

1R-ZT25


1R-UP

### FLORENCE-1R-GC

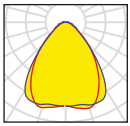

1R-GC-Z60

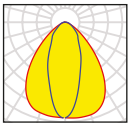

1R-GC-Z90


1R-GC-ZT25

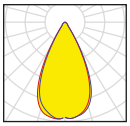
### FLORENCE-3R-IP

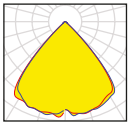
3R-IP-Z60


3R-IP-Z90

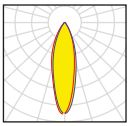

3R-IP-O

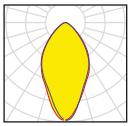
### FLORENCE2

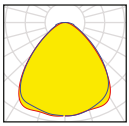

-Z60

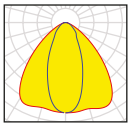

-Z90

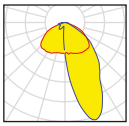
### FLORENCE-3R

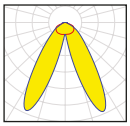

Z30

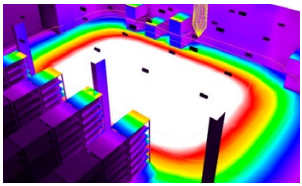

Z60

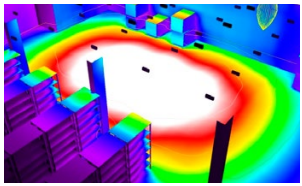

Z90

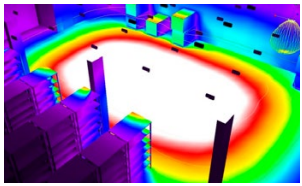

O


ZT25-S


ZT25


(3R) Z30 ~7 meters


(3R) Z60 ~5 meters


(3R) Z90 ~3.5 meters

The information contained herein is the property of LEDiL Oy, Joensuunkatu 13, FI-24100 SALO, Finland, and is subject to change without prior notice.
Please visit www.ledil.com for additional information, such as the latest photometric files, 3D mechanical models, and application notes relating to handling, gluing and taping.

LINDA-24

LINDA-40

## LINDA

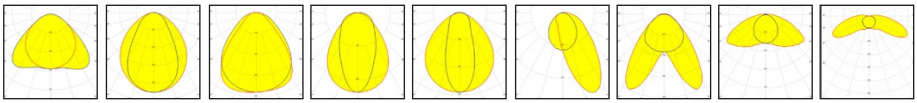
www.ledil.com/linda

### LINDA-24

Compatibility: Single row mid-power up to 24 mm wide Zhaga PCBs

| name | beam type | h | d * | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|
| LINDA-WWW | extra wide | 6.3 | 26 x 1140 | 110 + 100 | 90 | 0.3 |
| LINDA-WW | wide | 5.3 | 26 x 1140 | 65 + 100 | 90 | 0.4 |
| LINDA-WW2 | wide | 5.3 | 26 x 1140 | 97 + 87 | 89 | 0.4 |
| LINDA-W60 | wide | 6.3 | 26 x 1140 | 60 + 90 | 88 | 0.4 |
| LINDA-O | oval | 4.9 | 26 x 1140 | 40 + 100 | 88 | 0.5 |
| LINDA-ZT25 | asymmetric | 6.5 | 26 x 1140 | asymm. | 89 | 0.5 |
| LINDA-Z2T25 | double asymmetric | 5.3 | 26 x 1140 | asymm. | 89 | 0.4 |
| LINDA-UP | wide-area lighting | 7.8 | 26 x 1140 | 105 + 145 | 88 | 0.2 |
| LINDA-UP2 | wide-area lighting | 11.4 | 26 x 1140 | 165 + 130 | 88 | 0.3 |

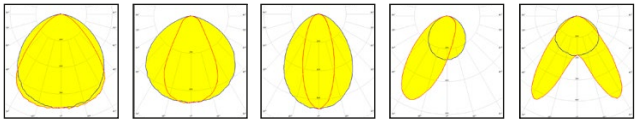
* North American 48 inch length, 3.01 m length and other custom lengths available


WWW WW WW2 W60 O ZT25 Z2T25 UP UP2

### LINDA-40 COMING

Compatibility: Single row mid-power up to 24 mm wide Zhaga PCBs

| name | beam type | h | d | typ. FWHM | typ. eff. |
|---|---|---|---|---|---|
| LINDA-40-WW | wide | 9 | 40 x 1140 | 90 | 88 |
| LINDA-40-W | wide | 9 | 40 x 1140 | 60 | 84 |
| LINDA-40-O | oval | 9 | 40 x 1140 | 86 + 40 | 87 |
| LINDA-40-ZT25 | asymmetric | 9 | 40 x 1140 | asymm. | 83 |
| LINDA-40-Z2T25 | double asymmetric | 9 | 40 x 1140 | asymm. | 84 |


WW W O ZT25 Z2T25



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 product datasheets.

CLAUDIA

VIOLET

VANESSA-B-O

DAHLIA-TL110

## CLAUDIA

www.ledil.com/claudia

Compatibility: Optimized for 2835 and compatible with up to 5630 size mid-power LED packages

| name | h | d | typ. FWHM | typ. eff. |
|---|---|---|---|---|
| CLAUDIA-60 | 9.6 | 279.3 x 29.3 | 60 | 94 |
| CLAUDIA-90 | 8.1 | 279.3 x 29.3 | 81 | 94 |
| CLAUDIA-Z2T25 | 13.6 | 279.3 x 29.3 | asymm. | 91 |

## VIOLET

www.ledil.com/violet **NEW** UV-A-B-C

Compatibility: UV LEDs from Seoul Viosys, Nichia, etc.

| name | h | d | typ. FWHM | typ. cd /lm |
|---|---|---|---|---|
| VIOLET-12X1-RS | 8.8 | 295 x 42 | 14 | 8.6 |
| VIOLET-12X1-S | 8.8 | 295 x 42 | 20 | 1.4 |
| VIOLET-12X1-W | 8.8 | 295 x 42 | 60 | 0.8 |

## DAHLIA

www.ledil.com/dahlia

Compatibility: Typical horticultural 3535 HP LEDs

| name | h | d | typ. FWHM | typ. eff. |
|---|---|---|---|---|
| DAHLIA-TL110 | 11 | 321 x 79 | 120 | 94 |

## VANESSA

www.ledil.com/vanessafamily

Compatibility: Up to 3535 size LED packages

| name | beam type | LEDs | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|---|
| VANESSA-S | spot | 12 | 8 | 295 x 16 | 17 | 90 | 7.1 |
| VANESSA-M | medium | 12 | 8 | 295 x 16 | 26 | 89 | TBA |
| VANESSA-O | oval | 12 | 8 | 295 x 16 | 42 + 19 | 82 | 2.1 |
| VANESSA-B-S | spot | 12 | 8 | 295 x 16 | 22 | 93 | 4.1 |
| VANESSA-B-W | wide | 12 | 8 | 295 x 16 | 37 | 92 | 1.7 |
| VANESSA-B-O | oval | 12 | 8 | 295 x 16 | 45 + 21 | 88 | 1.8 |

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Please visit www.ledil.com for additional information, such as the latest photometric files, 3D mechanical models, and application notes relating to handling, gluing and taping.

## DAISY

www.ledil.com/daisy

TESTED FOR TUNABLE WHITE

Compatibility:
- Optimized for 2835 and compatible with up to 5630 size mid-power LED packages
- Recommended to be used with two LEDs per one optic which can be up to 5630 in size
- Can be used with single domeless 5050 size LED packages
- Compatible with up to 4 ft long PCBs

Colours: black and white (gloss or matt), also available with metallized shade
Lenses: clear or diffused

### DAISY-28X1

| name | h | d | typ. FWHM | typ. eff. |
|---|---|---|---|---|
| DAISY-28X1-W | 20.2 | 1140 x 40 | 50 | 95 |
| DAISY-28X1-WW | 20.2 | 1140 x 40 | 90 | 95 |
| DAISY-28X1-W2 | 20.2 | 1140 x 40 | 65 | 89 |

### DAISY-8X1

| name | | h | d | typ. FWHM | typ. eff. |
|---|---|---|---|---|---|
| DAISY-8X1-M | NEW | 20.3 | 305 x 38 | 27 | 86 |
| DAISY-8X1-W | | 0.8in | 12in x 1.5in | 50 | 89 |
| DAISY-8X1-WW | | 0.8in | 12in x 1.5in | 90 | 83 |

### DAISY-7X1

| name | | h | d | typ. FWHM | typ. eff. |
|---|---|---|---|---|---|
| DAISY-7X1-O | COMING | 20.3 | 280 x 40 | 25 | 80 |
| DAISY-7X1-W | | 20.3 | 280 x 40 | 56 | 90 |
| DAISY-7X1-WW | | 20.3 | 280 x 40 | 77 | 88 |
| DAISY-7X1-W2 | | 20.3 | 280 x 40 | 64 | 89 |
| DAISY-7X1-ZT25 | | 20.3 | 280 x 40 | TBA | TBA |

### DAISY-4X1

| name | h | d | typ. FWHM | typ. eff. |
|---|---|---|---|---|
| DAISY-4X1-W | 20.2 | 182 x 40 | 50 | 95 |
| DAISY-4X1-WW | 20.2 | 182 x 40 | 90 | 95 |

### DAISY-2X2

| name | h | d | typ. FWHM | typ. eff. |
|---|---|---|---|---|
| DAISY-2X2-W | 21 | 80 x 80 | 55 | 90 |
| DAISY-2X2-WW | 21 | 80 x 80 | 77 | 88 |

### DAISY-MINI

| name | | h | d | typ. FWHM | typ. eff. |
|---|---|---|---|---|---|
| DAISY-MINI-M | NEW | 13.3 | 279.5 x 21 | 33 | 82 |
| DAISY-MINI-W | | 13.3 | 279.5 x 21 | 53 | 86 |
| DAISY-MINI-WW | | 13.3 | 279.5 x 21 | 66 | 84 |

## LILIAN

www.ledil.com/lilian

Compatibility: Optimized for up to 20 mm wide high-power and CSP PCBs and for 1.0 mm thick profiles

| name | h | d | typ. FWHM | typ. eff. |
|---|---|---|---|---|
| LILIAN-ON | 14.8 | 286 x 27 | 10 + 60 | 92 |

## SHELLY

www.ledil.com/shelly

Compatibility: Up to 3535 size LED packages

| name | h | d | typ. FWHM | typ. eff. |
|---|---|---|---|---|
| SHELLY-T-6X1-N | 7 | 119.8 x 19.6 | asymm. | 94 |
| SHELLY-T-6X1-WAS | 7.6 | 119.8 x 19.6 | asymm. | 94 |

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 product datasheets.

## LINNEA

www.ledil.com/linnea

### LINNEA

The regular LINNEA and its clips are designed to be fastened on 1.0 mm thick and LINNEA-B for 0.5 mm thick installation surfaces

Compatibility: Optimized for the most common Zhaga mid-power 20 and 24 mm wide PCBs

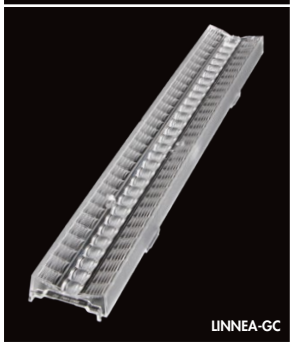
| name | h | d | typ. FWHM | typ. eff. |
|---|---|---|---|---|
| LINNEA-60 * | 12 | 285 x 40 | 60 | 85 |
| LINNEA-90 * | 9.5 | 285 x 40 | 90 | 85 |
| LINNEA-O * | 12 | 285 x 40 | 35 + 70 | 81 |
| LINNEA-Z2T25 * | 10.3 | 285 x 40 | asymm. | 87 |
| LINNEA-ZT25 * | 9.5 | 285 x 40 | asymm. | 80 |
| LINNEA-UP | 10.3 | 285 x 40 | asymm. | 79 |

* B-version available ** Optical variant

### LINNEA-GC

Compatibility: Optimized for up to 24 mm wide mid-power PCBs and 1.0 mm thick profiles. Compatible with same luminaires as basic LINNEA but requires a new PCB.

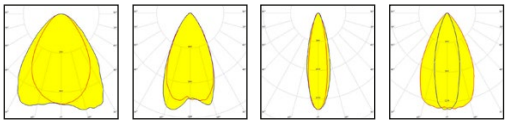
| name | h | d | typ. FWHM | typ. eff. |
|---|---|---|---|---|
| LINNEA-GC-90 | 9.5 | 285 x 40 | 90 | 85 |
| LINNEA-GC-60 | 12.2 | 285 x 40 | 68 + 60 | 93 |
| LINNEA-GC-O | 12.8 | 285 x 40 | 736 + 43 | 91 |




### LINNEA-GC2 NEW

Compatibility: Optimized for up to 24 mm wide mid-power PCBs and 1.0 mm thick profiles.

| name | | h | d | typ. FWHM | typ. eff. |
|---|---|---|---|---|---|
| LINNEA-GC2-110 | | 15.2 | 284 x 43 | 94 + 110 | 88 |
| LINNEA-GC2-90 | | 15.2 | 284 x 43 | 73 + 85 | 88 |
| LINNEA-GC2-60 | | 15.2 | 284 x 43 | 68 + 60 | 93 |
| LINNEA-GC2-30 | | 15.2 | 284 x 43 | 23 + 28 | 92 |
| LINNEA-GC2-O | | 15.2 | 284 x 43 | 58 + 33 | 93 |
| LINNEA-GC2-ZT25 | | 15.2 | 284 x 43 | asymm. | 86 |
| LINNEA-GC2-Z2T25 | | 15.2 | 284 x 43 | asymm. | 86 |
| LINNEA-GC2-WG | COMING | 15.2 | 284 x 43 | asymm. | 90 |



### LINNEA-2R

Compatibility: Optimized for Signify Fortimo Edge 2-row board

| name | h | d | typ. FWHM | typ. eff. |
|---|---|---|---|---|
| LINNEA-2R-O | 8.6 | 567 x 40 | 90 + 30 | 94 |

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Please visit www.ledil.com for additional information, such as the latest photometric files, 3D mechanical models, and application notes relating to handling, gluing and taping.

ALISE

ELISE

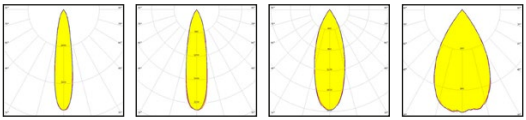
## ALISE-50, -70, -110

www.ledil.com/alise

UV-A-B-C

Ø50/70/110 mm aluminum reflector family for down- and track lights
Compatibility:
Optimized:
• Ø50 mm: LES 10 mm
• Ø70 mm: LES 14.5 mm
• Ø110 mm: LES 22 mm
Optimized for Zhaga connectors e.g. Lumawise LED holders Z35, Z45, Z50

| name | beam | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|
| ALISE-50/70/110-S | spot | 25 / 42 / 65 | 50 / 70 / 110 | 15 | 92 | 5.3 |
| ALISE-50/70/110-M | medium | 25 / 42 / 65 | 50 / 70 / 110 | 24 | 92 | 4.1 |
| ALISE-50/70/110-W | wide | 25 / 42 / 65 | 50 / 70 / 110 | 36 | 92 | 2.3 |
| ALISE-50/70/110-WW | extra wide | 25 / 42 / 65 | 50 / 70 / 110 | 60 | 91 | 1.0 |

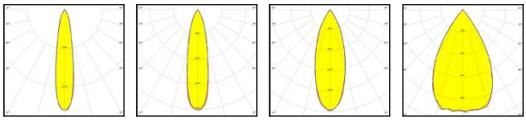

S M W WW

## ELISE-50, -70, -110

www.ledil.com/elise

Compatibility
Optimized:
• Ø50 mm: LES 10 mm
• Ø70 mm: LES 14.5 mm
• Ø110 mm: LES 22 mm
Optimized for Lumawise LED holders Z35L, Z45L, Z50L

| name | beam | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|
| ELISE-50/70/110-S | spot | 25 / 42 / 65 | 50 / 70 / 110 | 15 | 90 | 4.1 |
| ELISE-50/70/110-M | medium | 25 / 42 / 65 | 50 / 70 / 110 | 24 | 90 | 3.2 |
| ELISE-50/70/110-W | wide | 25 / 42 / 65 | 50 / 70 / 110 | 36 | 90 | 2.0 |
| ELISE-50/70/110-WW | extra wide | 25 / 42 / 65 | 50 / 70 / 110 | 60 | 90 | 0.9 |


S M W WW

| Additional accessories compatible with ALISE and ELISE | |
|---|---|
| ALISE-50-RING | mounting ring |
| ALISE-70-RING | mounting ring |
| ALISE-110-RING | mounting ring |
| ALISE-110-CL | clear sublens |
| ALISE-110-DL | diffused sublens |

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 product datasheets.

ELLA

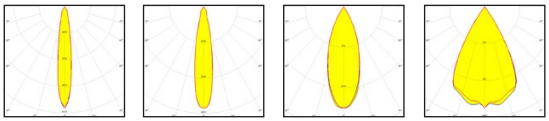
## ELLA

www.ledil.com/ella

Compatibility: Optimized for 4–8 mm LES size COBs
When used with OLGA holder compatible with up to 7070 size LED packages

| name | d | h | typ. FWHM | typ. eff. | typ.cd/lm |
|---|---|---|---|---|---|
| ELLA-30-S | 30 / 32* | 17.2 / 20* | 15° | 91 | 8.5 |
| ELLA-30-M | 30 / 32* | 17.2 / 20* | 28° | 90 | 4.5 |
| ELLA-30-W | 30 / 32* | 17.2 / 20* | 38° | 88 | 2.4 |
| ELLA-30-WW | 30 / 32* | 17.2 / 20* | 55° | 90 | 1.3 |

* with holder



ELLA-30-S ELLA-30-M ELLA-30-W ELLA-30-WW

The information contained herein is the property of LEDiL Oy, Joensuunkatu 13, FI-24100 SALO, Finland, and is subject to change without prior notice.
Please visit www.ledil.com for additional information, such as the latest photometric files, 3D mechanical models, and application notes relating to handling, gluing and taping.

## LEDiL SYSTEM REFLECTORS

*One luminaire to qualify them all. Change only the reflector to use same fixture for multiple purposes. Wide LED and fastening compatibility with additional sockets for twist and lock or press fit installations. Enhance with the LEDiL's patented RZ-technology for smoother uniform light patterns.*

## BROOKE-G2

www.ledil.com/brooke-g2

KONNTAKT

Compatible with LEDiL HEKLA baseparts (page 43)
Compatibility: COBs with LES size up to 19 mm

| name | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|
| BROOKE-G2-S | 19.7 | 45 | 18 | 92 | 4.3 |
| BROOKE-G2-M | 19.7 | 45 | 28 | 92 | 2.0 |
| BROOKE-G2-W | 19.7 | 45 | 47 | 92 | 1.0 |
| **additional accessories** | | | | | |
| BARBARA-RZ-LENS | color mixing sublens | | | | |
| LEDiL HEKLA (Check compatibility on page 43 or ledil.com) | | | | | |

TESTED FOR TUNABLE WHITE

Additional BARBARA-RZ-LENS colour mixing sublens needed for tunable white lighting

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 product datasheets.

## MIRELLA

www.ledil.com/mirella

Ø50 mm LEDiL System Reflectors compatible with various accessories, sockets and solderless connectors

### MIRELLA-G2

KONNTAKT

Compatible with LEDiL HEKLA baseparts (page 43)
Compatibility: COBs with LES size up to 14 mm

| name | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|
| MIRELLA-G2-S | 24.8 | 49.9 | 15 | 90 | 6.6 |
| MIRELLA-G2-M | 24.8 | 49.9 | 20 | 90 | 3.4 |
| MIRELLA-G2-W | 24.8 | 49.9 | 31 | 91 | 1.9 |
| MIRELLA-G2-WW | 24.8 | 49.9 | 50 | 85 | 1.3 |
| **additional accessories** | | | | | |
| MIRELLA-CL | clear lens | | | | |
| MIRELLA-DL | diffused lens | | | | |
| MIRELLA-RZL | colour mixing lens | | | | |
| LEDiL HEKLA (Check compatibility on page 43 or www.ledil.com) | | | | | |

TESTED FOR TUNABLE WHITE

Additional MIRELLA-RZL colour mixing lens needed for tunable white lighting

### MIRELLA-PF

Press-fit fastening with LEDiL sockets
Compatibility:
- COBs with LES size up to 14 mm
- 3rd party connectors from Bender+Wirth and Ideal
- LEDiL baseparts with PF-interface (page 42)

| name | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|
| MIRELLA-50-S-PF | 24 | 49.9 | 17 | 88 | 5.4 |
| MIRELLA-50-M-PF | 24 | 49.9 | 32 | 88 | 1.9 |
| MIRELLA-50-W-PF | 24 | 49.9 | 43 | 87 | 1.3 |
| MIRELLA-50-XW-PF | 24 | 49.9 | 78 | 92 | 0.6 |
| **additional accessories** | | | | | |
| MIRELLA-CL | clear lens | | | | |
| MIRELLA-DL | diffused lens | | | | |
| MIRELLA-RZL | color mixing lens | | | | |

MIRELLA-G2

MIRELLA-PF

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Please visit www.ledil.com for additional information, such as the latest photometric files, 3D mechanical models, and application notes relating to handling, gluing and taping.

## BARBARA

www.ledil.com/barbara

Ø70 mm LEDiL System Reflectors compatible with various accessories, sockets and solderless connectors.

### BARBARA-G2

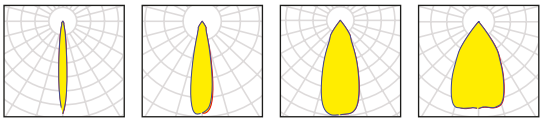
Compatible with LEDiL HEKLA baseparts (page 43)
Compatibility: COBs with LES size up to 18 mm

KONNTAKT

| name | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|
| BARBARA-G2-S | 41.9 | 70 | 13 | 91 | 9.8 |
| BARBARA-G2-M | 41.9 | 70 | 25 | 92 | 3.6 |
| BARBARA-G2-W | 41.9 | 70 | 40 | 90 | 1.7 |
| BARBARA-G2-WW | 41.9 | 70 | 60 | 92 | 1.1 |
| **additional accessories** | | | | | |
| BARBARA-RZ-LENS | color mixing sublens | | | | |
| LEDiL HEKLA (Check compatibility on page 43 or www.ledil.com) | | | | | |

TESTED FOR TUNABLE WHITE

Additional BARBARA-RZ-LENS colour mixing sublens needed for tunable white lighting



G2-S G2-M G2-W G2-WW

### BARBARA-PF

Press-fit fastening for LEDiL sockets
Compatibility:
- COBs with LES size up to 19 mm
- 3rd party connectors from Bender+Wirth
- LEDiL baseparts with PF-interface (page 42)

| name | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|
| BARBARA-S-PF | 41.7 | 70 | 21 | 88 | 3.6 |
| BARBARA-W-PF | 41.7 | 70 | 28 | 85 | 2.5 |
| BARBARA-WW-PF | 41.7 | 70 | 64 | 84 | 1.2 |
| BARBARA-XW-PF | 41.7 | 70 | 74 | 90 | 0.7 |
| **additional accessories** | | | | | |
| see www.ledil.com | | | | | |

BARBARA-G2

BARBARA-PF



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 product datasheets.

# LENA / LENINA

Ø111 mm and Ø74 mm LEDiL System Reflectors compatible with various sublenses and sockets.

## LENA

www.ledil.com/lenafamily

Compatibility:
- COBs with LES size up to 35 mm
- 3rd party connectors from Ideal, Stucchi and Bender+Wirth
- LENA/LENINA baseparts (page 42)

| name | beam type | d | h | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|
| LENA-S | S | 111 | 86 | 11 | 85 | 7.6 |
| LENA-SS | SS | 111 | 86 | 18 | 82 | 5.0 |
| LENA-M | M | 111 | 86 | 22 | 83 | 2.5 |
| LENA-W | W | 111 | 86 | 46 | 82 | 1.3 |
| LENA-WAS | WAS | 111 | 37 | asymm. | 82 | 1.1 |
| **additional accessories** | | | | | | |
| LENA-LENS | diffuser lens | | | | | |
| LENA-CLEAR-LENS | clear lens | | | | | |

LENA

## LENINA

www.ledil.com/leninafamily

Compatibility:
- COBs with LES size up to 35 mm
- 3rd party connectors from Ideal, Stucchi and Bender+Wirth
- Available with lacquer or HMDS aluminium coating
- Easy twist and lock latching mechanism
- LENA/LENINA baseparts (page 42)

| name | | beam type | d | h | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|---|
| LENINA-S | | S | 74 | 46 | 19 | 88 | 4.5 |
| LENINA-M | | M | 74 | 46 | 31 | 87 | 2.1 |
| LENINA-W | | W | 74 | 46 | 53 | 87 | 1.1 |
| LENINA-XW | | XW | 74 | 46 | 73 | 89 | 0.6 |
| LENINA-S-HMDS | **NEW** | S | 74 | 40 | 22 | 93 | 3.7 |
| LENINA-M-HMDS | **NEW** | M | 74 | 40 | 37 | 93 | 1.9 |
| LENINA-W-HMDS | **NEW** | W | 74 | 40 | 65 | 91 | 0.9 |
| **additional accessories** | | | | | | | |
| LENINA-DL | | diffuser lens | | | | | |
| LENINA-CL | | clear lens | | | | | |

LENINA

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Please visit www.ledil.com for additional information, such as the latest photometric files, 3D mechanical models, and application notes relating to handling, gluing and taping.

# ANGELA / ANGELINA / ANGELETTE

Ø120 mm, Ø82 mm and Ø110 mm reflector families part of the LEDiL's System Reflectors.
ANGELA/ANGELINA/ANGELETTE-B versions available with BJB compatible interface.

TESTED FOR TUNABLE WHITE — Additional ANGE-RZ colour mixing sublens needed for tunable white lighting

## ANGELA

www.ledil.com/angela-family

Compatibility:
- COBs with LES size up to 32 mm
- LEDiL baseparts with A-interface (page 42)
- 3rd party baseparts compatible with B-interface (page 42)

| name | beam type | d | h | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|
| ANGELA-S | spot | 119.5 | 74.27 | 10 | 89 | 3.2 |
| ANGELA-M | medium | 119.5 | 74.27 | 32 | 89 | 2.5 |
| ANGELA-W | wide | 119.5 | 74.27 | 46 | 89 | 1.4 |
| ANGELA-XW | wide | 119.5 | 74.27 | 72 | 93 | 0.6 |
| **additional accessories** | | | | | | |
| ANGE-RZ | color mixing sublens | | | | | |

## ANGELINA

www.ledil.com/angelina-family

Compatibility:
- COBs with LES size up to 32 mm
- LEDiL baseparts with A-interface (page 42)
- 3rd party baseparts compatible with B-interface (page 42)

| name | beam type | d | h | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|
| ANGELINA-S | spot | 82 | 31 | 20 | 90 | 1.2 |
| ANGELINA-M | medium | 82 | 31 | 32 | 92 | 1.6 |
| ANGELINA-W | wide | 82 | 31 | 47 | 92 | 1.1 |
| ANGELINA-XW | extra wide | 82 | 31 | 91 | 93 | 0.5 |
| **additional accessories** | | | | | | |
| ANGE-RZ | color mixing sublens | | | | | |

## ANGELETTE

www.ledil.com/angelette-family

Compatibility:
- COBs with LES size up to 32 mm
- LEDiL baseparts with A-interface (page 42)
- 3rd party baseparts compatible with B-interface (page 42)

| name | beam type | d | h | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|
| ANGELETTE-S | spot | 110 | 57.3 | 10 | 90 | 5.3 |
| ANGELETTE-M2 | medium | 110 | 57.3 | 35 | 88 | 1.4 |
| ANGELETTE-M | medium | 110 | 57.3 | 50 | 89 | 1.2 |
| ANGELETTE-WW | extra wide | 110 | 57.3 | 70 | 90 | 0.8 |
| ANGELETTE-WAS | asymmetric | 97.2 x 83.4 | 84 | asymm. | 92 | 1.4 |
| **additional accessories** | | | | | | |
| ANGE-RZ | color mixing sublens | | | | | |
| ANGELETTE-LENS | clear lens for symmetrical ANGELETTE reflectors | | | | | |
| ANGELETTE-DL | diffusing lens for symmetrical ANGELETTE reflectors | | | | | |

| name | beam type | d | h | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|
| ANGELETTE-S-PLAIN | spot | 110 | 57.3 | 10 | 89 | 8.1 |
| ANGELETTE-M-PLAIN | medium | 110 | 57.3 | 50 | 89 | 1.2 |
| ANGELETTE-WW-PLAIN | extra wide | 110 | 57.3 | 63 | 89 | 1.1 |
| **additional accessories** | | | | | | |
| ANGE-RZ | color mixing sublens | | | | | |

ANGELA / ANGELINA

ANGELETTE

ANGELETTE-PLAIN



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 product datasheets.

## MINNIE

www.ledil.com/minnie

Available with or without holder. Diameter 35 mm (32.4 mm without holder), typical height ≈15 mm.
Compatibility: Up to 7070 size LED packages

| name | beam type | h | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|
| MINNIE-M | medium | 15 | 24 | 90 | 2.6 |
| MINNIE-W | wide | 15 | 33 | 89 | 2.0 |
| MINNIE-WWW | extra wide | 15 | 69 | 91 | 0.9 |
| MINNIE-XW | extra2 wide | 15 | 90 | 92 | 0.5 |
| MINNIE-LT-M | medium | 15 | 21 | 92 | 2.0 |
| MINNIE-LT-W | wide | 15 | 29 | 92 | 2.0 |
| MINNIE-LT-WWW | extra wide | 15 | 62 | 93 | 0.87 |

MINNIE-LT MINNIE with holder

## BOOM

www.ledil.com/boom

Compatibility: Up to 7070 size LED packages

| name | h | d | typ. FWHM | typ. cd/lm |
|---|---|---|---|---|
| BOOM-S | 14 | 22.2 | 18 | 3.6 |
| BOOM-M | 14 | 22.2 | 32 | 1.9 |
| BOOM-W | 14 | 22.2 | 55 | 1.1 |
| BOOM-XW | 14 | 22.2 | 70 | 0.67 |

BOOM-XW

## BRIDGET

www.ledil.com/bridget

Compatibility: Up to 7070 size LED packages and COB's with LES size up to 10 mm

| name | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|
| BRIDGET-S-UNI | 12.8 | 22.6 | 44 | 85 | 1.0 |
| BRIDGET-M-UNI | 12.8 | 22.6 | 52 | 84 | 1.1 |
| BRIDGET-W-UNI | 12.8 | 22.6 | 61 | 87 | 1.0 |

## RITA

www.ledil.com/rita

Compatibility: Up to 5050 size LED packages

| name | beam type | h | d | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|
| RITA-A | asymmetric | 17 | 36 x 28.4 | 87 | 0.6 |
| RITA-WAS | asymmetric | 17 | 31.9 x 28.4 | 85 | 0.63 |

RITA-WAS

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Please visit www.ledil.com for additional information, such as the latest photometric files, 3D mechanical models, and application notes relating to handling, gluing and taping.

## A-INTERFACE

## B-INTERFACE

## PF-INTERFACE

## LENA / LENINA INTERFACE

### A-INTERFACE

| |
|---|
| C13584_CLAMP-VERO29 * |
| C16140_CLAMP-VERO29 (improved) |
| C13658_CLAMP-VERO13-18 |
| C16402_CLAMP-VEROSE-13-18 * |
| C14036_CLAMP_CXA25-30 |
| C14123_CLAMP-CXA15-18 |
| C16685_CLAMP-PRV-A |
| C16791_CLAMP-Z45-A |
| C16491_XTM-ADAPTER-50-A |

### B-INTERFACE

| |
|---|
| C15743_XTM-ADAPTER-50-B ** |

### LENA/LENINA INTERFACE

| |
|---|
| C14547_LENA-ADAPTER-B *** |
| C13186_LENA-STD-BASE-CXA15 |
| C14146_LENA-STD-BASE-CXA18 |
| C13324_LENA-STD-BASE-CXA25 |
| C13868_LENA-STD-BASE-VERO13-18 * |
| C15570_LENA-STD-BASE2-VERO13-18 |
| C13867_LENA-STD-BASE-VERO29 * |
| C15083_LENA-STD-BASE-VERO29 |
| C11981_LENA-STD-BASE-COB-L110 |
| C12292_LENA-STD-BASE-MEZ |
| C12691_LENA-STD-BASE-CLL030 |
| C12692_LENA-STD-BASE-CLL040 |

### PF-INTERFACE

| |
|---|
| C13083_PF-SOCKET |
| C13708_PF-SOCKET-VERO10 |
| C13709_PF-SOCKET-VERO13-18 * |
| C13761_PF-SOCKET-CXA15 |
| C14037_PF-NSX-SOCKET |
| C14115_PF-SOCKET-CXA15-18 |
| C14636_XTM-PF-ADAPTER |

### A-INTERFACE (3RD PARTY)

| |
|---|
| TE: Z50 STD PROFILE + TE OPTIC CLIP Z50 TYPE1 |
| Osram Prevaled Core Z 50mm + TE OPTIC CLIP Z50 TYPE1 |
| Osram PrevaLED Core AC + TE OPTIC CLIP Z50 TYPE1 |
| Philips/Signify Fortimo SLM holder + TE OPTIC CLIP Z50 TYPE1 |
| IDEAL: Chip-Lok + 50-2100AN |
| Bender+Wirth COB HOLDER HYBRID 630 - 3Hook |

### B-INTERFACE (3RD PARTY)

| |
|---|
| BJB 47.319 |
| A.A.G. STUCCHI: 8000 G2 |
| Tridonic SLE |
| Bender+Wirth COB HOLDER HYBRID 630 - Bayonet50 |

### LENA/LENINA INTERFACE (3RD PARTY)

| |
|---|
| IDEAL: Chip-Lok + 50-2100LN |
| Bender+Wirth COB HOLDER HYBRID 630 - Lena |

### PF-INTERFACE (3RD PARTY)

| |
|---|
| IDEAL 50-2100MR + Chip-Lok |

* Enables compatibility with Bender+Wirth solderless connectors
** Compatible with ANGELA-B, ANGELINA-B, ANGELETTE-B, ZORYA-SC-B, BARBARA-G2, MIRELLA-G2, BROOKE-G2, CARMEN-50-C
*** Enables compatibility with BJB solderless connector 50 mm, A.A.G. STUCCHI: 8000 G2, Tridonic SLE)



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 product datasheets.

## HEKLA connectors and sockets

Compatibility: One interface for a variety of LEDiL optics and COBs
Usability: Easy to use twist and lock mechanism for optics assembly and replacement with pre-fix for COBs
Durability: Long lasting materials that can handle high temperatures without losing grip
Rated voltage: 150 V
Rated current: 3 A

| connectors | LED package |
|---|---|
| HEKLA-C-G2 | 13.5 x 13.5 mm |
| HEKLA-D-G2 | 15.85 x 15.85 mm |
| HEKLA-H-G2 | 19 x 16 mm |
| HEKLA-I-G2 | 19 x 19 mm |
| HEKLA-J-G2 | 13.35 x 13.35 mm |

| sockets | LED package |
|---|---|
| HEKLA-SOCKET-A | 12.5 x 12.5 mm |
| HEKLA-SOCKET-B | 17.85 x 17.85 mm |
| HEKLA-SOCKET-C | 13.5 x 13.5 mm |
| HEKLA-SOCKET-D | 15.85 x 15.85 mm |
| HEKLA-SOCKET-E | 15.8 x 15.8 mm |
| HEKLA-SOCKET-F | |
| HEKLA-SOCKET-G | 15 x 12 mm |
| HEKLA-SOCKET-H | 19 x 16 mm |
| HEKLA-SOCKET-I | 19 x 19 mm |
| HEKLA-SOCKET-J | 13.35 x 13.35 mm |
| HEKLA-SOCKET-K | Bender+Wirth 4xx/Typ-L8 |
| XTM-ADAPTER-50-B & -C | |

Check the LED compatibility at www.ledil.com/hekla

## HEKLA 3RD PARTY CONNECTORS

Bender+Wirth COB HOLDER HYBRID 630 - Hekla

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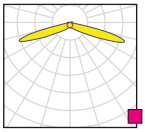
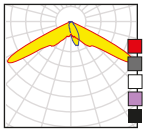
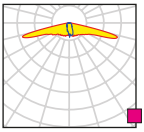


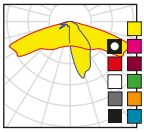
**T1**
IESNA Type I (medium)



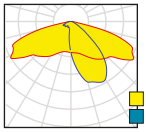
**T1-A**
IESNA Type I (short)



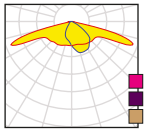
**T1-M**
IESNA TypeI (medium) beam for European P-class standard



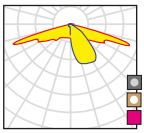
**T2**
IESNA Type II (medium)



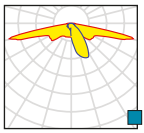
**T2-B**
IESNA Type II, minimized house side backlight



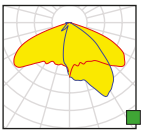
**T2-C**
IESNA Type II, added house side backlight



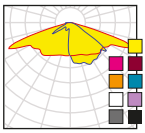
**T2-M**
IESNA Type II (medium)



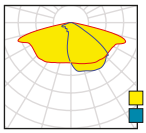
**T2-L**
IESNA Type II (long)



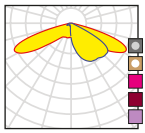
**T2-S**
IESNA Type II (short)



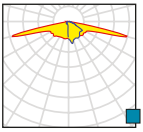
**T3**
IESNA Type III (medium)



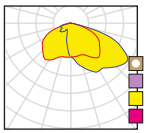
**T3B / T3-B**
IESNA Type III (medium), minimized backlight



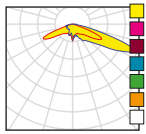
**T3-M**
IESNA Type III (medium)



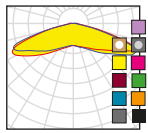
**T3-L**
IESNA Type III (long)



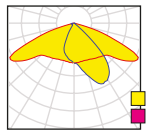
**T4**
IESNA Type IV



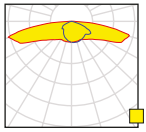
**T4-B**
IESNA Type IV, forward throw beam



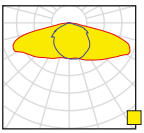
**VSM**
IESNA Type V (square)



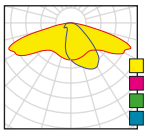
**A-T**
Short IESNA Type II



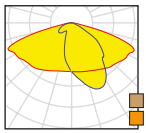
**ANZ-P**
Pedestrian lighting in Australia & New Zealand



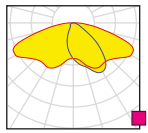
**ANZ-V**
Vehicular road lighting in Australia & New Zealand



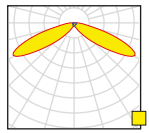
**DWC / T-DWC**
Universal road lighting (Typ. IESNA Type III Medium)



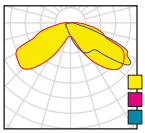
**DWC2**
Universal road lighting (Typ. IESNA Type III Medium)



**DNW**
Soft wide beam with good illuminance uniformity

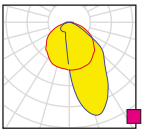


**DW / T-DW**
Soft wide beam with good illuminance uniformity

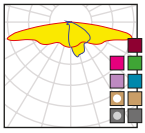


**FW**
Wide light distribution, residential streets, staggered pole setup

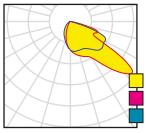
FWHM angles, efficiencies and cd/lm values contained herein are typical values. Actual measured values depend of the specific LED/optic combination.
Go to www.ledil.com for LED specific values and product datasheets.



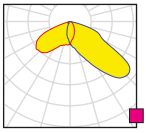
**NHS**
narrow beam,
minimal house side light



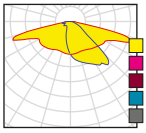
**SCL**
Type II/III (long),
ideal for pedestrian paths
and residential roads



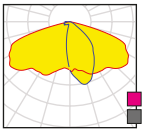
**PX**
Double asymm.,
pedestrian crossings,
right side traffic



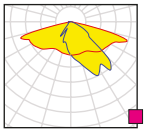
**PXL**
Double asymm.,
pedestrian crossings,
left side traffic



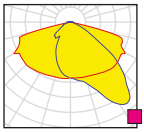
**ME**
Excellent longitudinal
luminance uniformity
fulfilling EN13201
M-class requirements



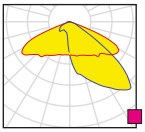
**ME-N**
Designed for high poles,
fulfilling EN13201
M-class requirements



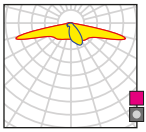
**ME-WIDE1**
Fulfilling EN13201 M-class
requirements, added
house side backlight



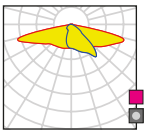
**ME-WIDE2**
For staggered pole
setups fulfilling EN13201
M-class requirements



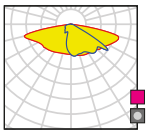
**MEW**
Extremely low glare
fulfilling EN13201 M-class
requirements for wet road
surfaces in North Europe



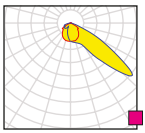
**LN1**
For EN13201 M-class
requirements with high
poles or where road width
≤ the pole height



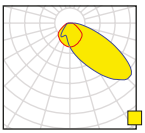
**LM1**
For EN13201 M-class
requirements where road
width ≥ the pole height



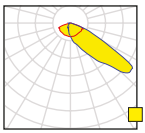
**LW1**
For EN13201 M-class
requirements where road
width > the pole height



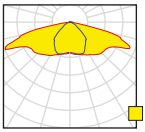
**FN**
Narrow forward throw
beam for area lighting



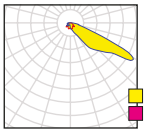
**FT**
Forward throw beam for
area lighting



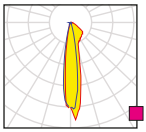
**FS**
Forward throw beam for
area lighting



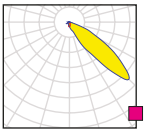
**FS2**
For symmetrical tunnel
lighting and parking
garages, ideal for
catenary street lighting



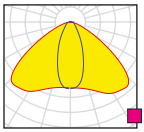
**FS3**
Forward throw beam
optimized for European
tunnels, extremely efficient
lighting with counter-beam
method



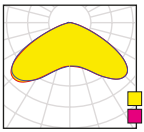
**FR**
Asymmetric spot light
beam for floodlighting
railway tracks according
to Russian normative



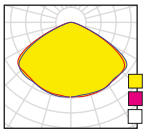
**TF**
Narrow forward throw
beam optimized for
European tunnels



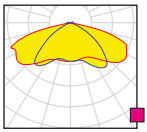
**B2**
For area lighting and
applications demanding
a wide oval beam pattern



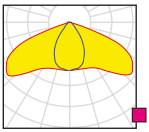
**C**
For area and street
lighting such as parks
and pedestrian walkways



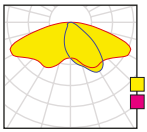
**CY**
For canopy lighting with
batwing light distribution,
suitable for symmetrical
tunnel lighting



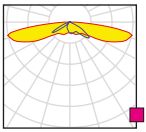
**CAT**
Catenary street light
beam optimized for
EN13201 M-classes



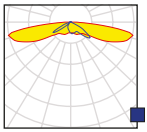
**CAT-B**
Narrow catenary street
light beam optimized for
EN13201 M-classes and
tilted poles



**DN / T-DN**
For area lighting with
shorter illumination
distances



**XW**
Wide beam



**DB**
For floodlighting the
area between the
railway tracks according
to DB requirements.

The information contained herein is the property of LEDiL Oy, Joensuunkatu 13, FI-24100 SALO, Finland, and is subject to change without prior notice.
Please visit www.ledil.com for additional information, such as the latest photometric files, 3D mechanical models, and application notes relating to handling, gluing and taping.

## STRADA

www.ledil.com/strada

### STRADA single lenses

Compatibility: Up to 3535 sized LED packages

| name | dimensions | height | typ. eff. | typ. FWHM |
|---|---|---|---|---|
| STRADA-A | 19.6 x 15.5 | 10.8 | 92 | 80 x 146 |
| STRADA-A2 | 19.6 x 15.5 | 10.6 | 92 | 72 x 141 |
| STRADA-B | 19.6 x 15.5 | 6 | 93 | 105 x 44 |
| STRADA-B2 | 19.6 x 15.5 | 5.3 | 92 | 111 x 47 |
| STRADA-C | 19.6 x 15.5 | 5.3 | 92 | 125 |
| STRADA-C2 (NP & CLIP versions) | 19.6 x 15.5 | 6.4 | 92 | 120 |
| STRADA-DW | 19.6 x 15.5 | 9.6 | 92 | 89 x 142 |
| STRADA-T-DW | 19.6 x 15.5 | 10.8 | 93 | |
| STRADA-T-DW-EP | 19.6 x 15.5 | 10.7 | 92 | |
| STRADA-DN | 19.6 x 15.5 | 5.9 | 92 | 107 x 58 |
| STRADA-T-DN | 19.6 x 15.5 | 8.9 | 92 | |
| STRADA-T-DN-EP | 19.6 x 15.5 | 8.8 | 91 | |
| STRADA-FT | 19.6 x 15.5 | 8.3 | 91 | |
| STRADA-FW | 19.6 x 15.5 | 10.9 | 92 | |
| STRADA-K | 19.6 x 15.5 | 8.7 | 96 | |
| STRADA-S | 19.6 x 15.5 | 6.9 | 93 | 149 x 159 |
| STRADA-S-14 | 19.6 x 15.5 | 6.9 | 93 | 149 x 159 |
| STRADA-ME | 19.6 x 15.5 | 5.7 | 92 | |

### STRADA-SQ

Compatibility: Up to 7070 sized LED packages

| name | dimensions | height | typ. eff. | typ. FWHM |
|---|---|---|---|---|
| STRADA-SQ-ANZ-P | 25 x 25 | 8.12 | 91 | asymm. |
| STRADA-SQ-ANZ-V | 25 x 25 | 8.1 | 93 | asymm. |
| STRADA-SQ-CY | 25 x 25 | 10.1 | 94 | 120 + 115 |
| STRADA-SQ-T2 | 25 x 25 | 8.5 | 90 | asymm. |
| STRADA-SQ-T2-B | 25 x 25 | 10.35 | 92 | asymm. |
| STRADA-SQ-T3 | 25 x 25 | 8.5 | 90 | asymm. |
| STRADA-SQ-T3B | 25 x 25 | 8.4 | 93 | asymm. |
| STRADA-SQ-T4 (+ NP version) | 25 x 25 | 9.4 | 93 | asymm. |
| STRADA-SQ-T4-B | 25 x 25 | 11.85 | 90 | asymm. |
| STRADA-SQ-ME (+ NP version) | 25 x 25 | 8.8 | 92 | asymm. |
| STRADA-SQ-FS (+ NP version) | 25 x 25 | 12.3 | 93 | asymm. |
| STRADA-SQ-FS2 | 25 x 25 | 8.2 | 90 | asymm. |
| STRADA-SQ-FS3 | 25 x 25 | 16.2 | 91 | asymm. |
| STRADA-SQ-A-T | 25 x 25 | 9.1 | 93 | asymm. |
| STRADA-SQ-T-DN | 25 x 25 | 8.5 | 90 | asymm. |
| STRADA-SQ-T-DW | 25 x 25 | 11.4 | 91 | asymm. |
| STRADA-SQ-T-DW-90 | 25 x 25 | 11.4 | 91 | asymm. |
| STRADA-SQ-T-DWC | 25 x 25 | 9.1 | 93 | asymm. |
| STRADA-SQ-VSM | 25 x 25 | 6.9 | 93 | 152 |
| STRADA-SQ-FT | 25 x 25 | 12.5 | 90 | asymm. |
| STRADA-SQ-PX | 25 x 25 | 9.2 | 93 | asymm. |
| STRADA-SQ-FW | 25 x 25 | 15.3 | 90 | asymm. |

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 product datasheets.

## STRADA-2X2 modules

Compatibility: Up to 5050 sized LED packages
STRADA-2X2 glare reducing shade available in black and white. Check compatibility.

| name | | dimensions | height | typ. eff. | typ. FWHM |
|---|---|---|---|---|---|
| STRADA-2X2-T1 ** | | 50 x 50 | 7.78 | 94 | asymm. |
| STRADA-2X2-T2 ** | | 50 x 50 | 7.7 | 94 | asymm. |
| STRADA-2X2-T2-C | | 50 x 50 | 7.34 | 94 | asymm. |
| STRADA-2X2-T2-M ** | | 50 x 50 | 11.85 | 94 | asymm. |
| STRADA-2X2-T3 * / ** | | 50 x 50 | 7 | 94 | asymm. |
| STRADA-2X2-T3-M | | 50 x 50 | 9.73 | 93 | asymm. |
| STRADA-2X2-T4 | | 50 x 50 | 7 | 94 | asymm. |
| STRADA-2X2-T4-B ** | | 50 x 50 | 9.02 | 93 | asymm. |
| STRADA-2X2-ME ** | | 50 x 50 | 8.2 | 94 | asymm. |
| STRADA-2X2-ME-WIDE1 | | 50 x 50 | 8.3 | 84 | asymm. |
| STRADA-2X2-ME-WIDE2 | | 50 x 50 | 7 | 81 | asymm. |
| STRADA-2X2-ME-N | | 50 x 50 | 6.7 | 94 | asymm. |
| STRADA-2X2-MEW | | 50 x 50 | 10.16 | 88 | asymm. |
| STRADA-2X2-DWC ** | | 50 x 50 | 6 | 93 | asymm. |
| STRADA-2X2-DNW | | 50 x 50 | 11 | 93 | asymm. |
| STRADA-2X2-A-T | | 50 x 50 | 7.3 | 93 | asymm. |
| STRADA-2X2-VSM** | | 50 x 50 | 6.14 | 94 | 150 |
| STRADA-2X2-CAT | | 50 x 50 | 6.2 | 94 | asymm. |
| STRADA-2X2-CAT-B ** | | 50 x 50 | 7.73 | 94 | asymm. |
| STRADA-2X2-SCL ** | | 50 x 50 | 7.8 | 94 | asymm. |
| STRADA-2X2-FW | | 50 x 50 | 11.98 | 92 | asymm. |
| STRADA-2X2-FN ** | | 50 x 50 | 10 | 94 | asymm. |
| STRADA-2X2-FR | | 50 x 50 | 11.8 | 93 | 15 + 16 |
| STRADA-2X2-DN | | 50 x 50 | 8.05 | 94 | asymm. |
| STRADA-2X2-XW | | 50 x 50 | 7 | 94 | asymm. |
| STRADA-2X2-B2-STP | | 50 x 50 | 5.18 | 93 | asymm. |
| STRADA-2X2-C-STP ** | | 50 x 50 | 6.27 | 94 | asymm. |
| STRADA-2X2-PX ** | | 50 x 50 | 8 | 94 | asymm. |
| STRADA-2X2-PXL | | 50 x 50 | 8 | 94 | asymm. |
| STRADA-2X2-NHS | | 50 x 50 | 9.8 | 90 | asymm. |
| STRADA-2X2-CY ** | | 50 x 50 | 7.8 | 94 | 120 |
| STRADA-2X2-TF | | 50 x 50 | 8.73 | 94 | asymm. |
| STRADA-2X2-FS3 ** | | 50 x 50 | 12 | 94 | asymm. |
| STRADA-2X2-LN1 | NEW | 50 x 50 | 7.1 | 94 | asymm. |
| STRADA-2X2-LM1 | NEW | 50 x 50 | 7.2 | 94 | asymm. |
| STRADA-2X2-LW1 | | 50 x 50 | 7.2 | 94 | asymm. |
| STRADA-2X2-T1-M | | 50 x 50 | 6.5 | 94 | asymm. |
| STRADA-2X2-DB | NEW | 50 x 50 | 8.1 | 92 | asymm. |

* Available in silicone ** Available also in PC

## STRADA-2X2CSP

Compatibility: Designed for cost driven CSP (chip scale package) LEDs, and optimized for high-power CSPs.
Can be used with a cluster of 4 CSP LEDs under one optic.

| name | height | dimensions | typ. eff. | typ. FWHM |
|---|---|---|---|---|
| STRADA-2X2CSP-SCL | 7.49 | 50 x 50 | 94 | asymm. |
| STRADA-2X2CSP-VSM | 6.95 | 50 x 50 | 94 | asymm. |
| STRADA-2X2CSP-T2 | 7.7 | 50 x 50 | 94 | asymm. |
| STRADA-2X2CSP-T3 | 6.5 | 50 x 50 | 94 | asymm. |
| STRADA-2X2CSP-T4-B | 6.84 | 50 x 50 | 94 | asymm. |
| STRADA-2X2CSP-ME | 6.6 | 50 x 50 | 93 | asymm. |

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Please visit www.ledil.com for additional information, such as the latest photometric files, 3D mechanical models, and application notes relating to handling, gluing and taping.

## STRADA-2X2-5050

Compatibility: Flat 5050 size LED packages

| name | dimensions | height | typ. eff. | typ. FWHM |
|---|---|---|---|---|
| STRADA-2X2-5050-T2-C | 50 x 50 | 7.0 | 85 | asymm. |
| STRADA-2X2-5050-T2-C2 | 50 x 50 | 7.4 | 94 | asymm. |
| STRADA-2X2-5050-T2-C3 **NEW** | 50 x 50 | 9.7 | 94 | asymm. |
| STRADA-2X2-5050-T2-M | 50 x 50 | 7.2 | 79 | 73 + 152 |
| STRADA-2X2-5050-T3-M | 50 x 50 | 7.3 | 92 | asymm. |

## STRADA-IP-2X6 modules

Compatibility: Up to 5050 size LED packages

| name | dimensions | height | typ. eff. | typ. FWHM |
|---|---|---|---|---|
| STRADA-IP-2X6-T2 * | 173 x 71.4 | 9.2 | 94 | asymm. |
| STRADA-IP-2X6-T2-B * | 173 x 71.4 | 12.03 | 95 | asymm. |
| STRADA-IP-2X6-T2-B-90 | 173 x 71.4 | 12.03 | 94 | asymm. |
| STRADA-IP-2X6-T2-C-90 * | 173 x 71.4 | 9.0 | 94 | asymm. |
| STRADA-IP-2X6-T2-L | 173 x 71.4 | 13 | 93 | asymm. |
| STRADA-IP-2X6-T3 * | 173 x 71.4 | 8.5 | 94 | asymm. |
| STRADA-IP-2X6-T3-B | 173 x 71.4 | 12.75 | 94 | asymm. |
| STRADA-IP-2X6-T3-B-90 | 173 x 71.4 | 12.75 | 94 | asymm. |
| STRADA-IP-2X6-T3-L * | 173 x 71.4 | 13 | 94 | asymm. |
| STRADA-IP-2X6-T4-B * | 173 x 71.4 | 10.57 | 94 | asymm. |
| STRADA-IP-2X6-DWC * | 173 x 71.4 | 7.9 | 93 | asymm. |
| STRADA-IP-2X6-DWC-90 * | 173 x 71.4 | 8.98 | 94 | asymm. |
| STRADA-IP-2X6-ME * | 173 x 71.4 | 8.4 | 94 | asymm. |
| STRADA-IP-2X6-VSM * | 173 x 71.4 | 9 | 94 | asymm. |
| STRADA-IP-2X6-SCL * | 173 x 71.4 | 9.6 | 94 | asymm. |
| STRADA-IP-2X6-FW | 173 x 71.4 | 13.1 | 92 | asymm. |
| STRADA-IP-2X6-PX | 173 x 71.4 | 9.6 | 94 | asymm. |

* Available also in PC

## STRADA-IP-8MX modules

Compatibility: Optimized for flat 5050 packages (without dome)

| name | dimensions | height | typ. eff. |
|---|---|---|---|
| STRADA-IP-8MX-T2-C-PC | 90 x 90 | 9.6 | 85 |
| STRADA-IP-8MX-SCL-PC | 90 x 90 | 11.2 | 86 |
| STRADA-IP-8MX-DWC2-PC | 90 x 90 | 10.14 | 89 |

## SITARA

www.ledil.com/sitara

Compatibility: Optimized for 5050 size flat SMD LEDs

| name | LEDs | h | d | typ. eff. |
|---|---|---|---|---|
| SITARA-2X2-T2 | 4 | 9.3 | 50 x 50 | 78 |
| SITARA-T1-A | 1 | 5.9 | 18 x 18 | 88 |
| SITARA-T2 | 1 | 7.7 | 18 x 18 | 83 |
| SITARA-HB-S | 1 | 5.0 | 18 x 18 | 94 |
| SITARA-HB-M | 1 | 5.7 | 18 x 18 | 94 |

STRADA-2X2-5050

STRADA-IP-2X6

STRADA-IP-8MX

SITARA



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 product datasheets.

## STRADA-IP-16MX modules

Compatibility: CSP LEDs

| name | dimensions | height | typ. eff. |
|---|---|---|---|
| STRADA-IP-16MX-T2-M | 90 x 90 | 8.6 | 90 |
| STRADA-IP-16MX-T3-M | 90 x 90 | 8.6 | 90 |
| STRADA-IP-16MX-VSM | 90 x 90 | 8.6 | 90 |
| STRADA-IP-16MX-T4 | 90 x 90 | 8.6 | 94 |
| STRADA-IP-16MX-SCL | 90 x 90 | 8.6 | 93 |

## STRADA-2X2MX modules

Compatibility: Up to 7070 size LED packages

| name | dimensions | height | typ. eff. | typ. FWHM |
|---|---|---|---|---|
| STRADA-2X2MX-8-DWC | 90 x 90 | 11.3 | 94 | asymm. |
| STRADA-2X2MX-8-VSM | 90 x 90 | 13.4 | 94 | asymm. |
| STRADA-2X2MX-8-SCL | 90 x 90 | 13.17 | 94 | asymm. |
| STRADA-2X2MX-8-T4-B | 90 x 90 | 13.17 | 94 | asymm. |
| STRADA-2X2MX-8-T2 | 90 x 90 | 12.57 | 94 | asymm. |
| STRADA-2X2MX-8-T2-S | 90 x 90 | 11.13 | 94 | asymm. |

## Silicone STRADA-2X2MXS modules

Compatibility: Up to 7070 size LED packages

| name | dimensions | height | typ. eff. | typ. FWHM |
|---|---|---|---|---|
| STRADA-2X2MXS-DWC2 | 90 x 90 | 14 | 93 | asymm. |
| STRADA-2X2MXS-VSM | 90 x 90 | 13 | 92 | asymm. |
| STRADA-2X2MXS-T2 | 90 x 90 | 12.57 | 91 | asymm. |
| STRADA-2X2MXS-T3 | 90 x 90 | 14.83 | 89 | asymm. |
| STRADA-2X2MXS-T4-B | 90 x 90 | 14.2 | 88 | asymm. |

## STRADA-6X1 modules

Compatibility: Up to 3535 size LED packages

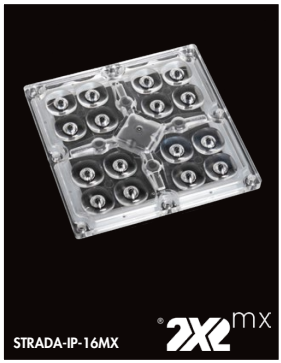
| name | LEDs | h | d | typ. eff. |
|---|---|---|---|---|
| STRADA-T-6X1-ME | 6 | 8,2 | 119.8 x 25.2 | 93 |
| STRADA-T-6X1-DNW | 6 | 5,6 | 119.8 x 25.2 | 93 |
| STRADA-T-6X1-DWC | 6 | 5,5 | 119.8 x 25.2 | 94 |

## TATIANA

www.ledil.com/tatiana

Compatibility: Up to 3535 size LED packages

| name | LEDs | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|
| TATIANA-1X4-B | 4 | 7.7 | 102 x 25 | 144 + 62 | 94 | 0.54 |



STRADA-IP-16MX

STRADA-2X2MX & MXS

STRADA-6X1

TATIANA-1X4-B

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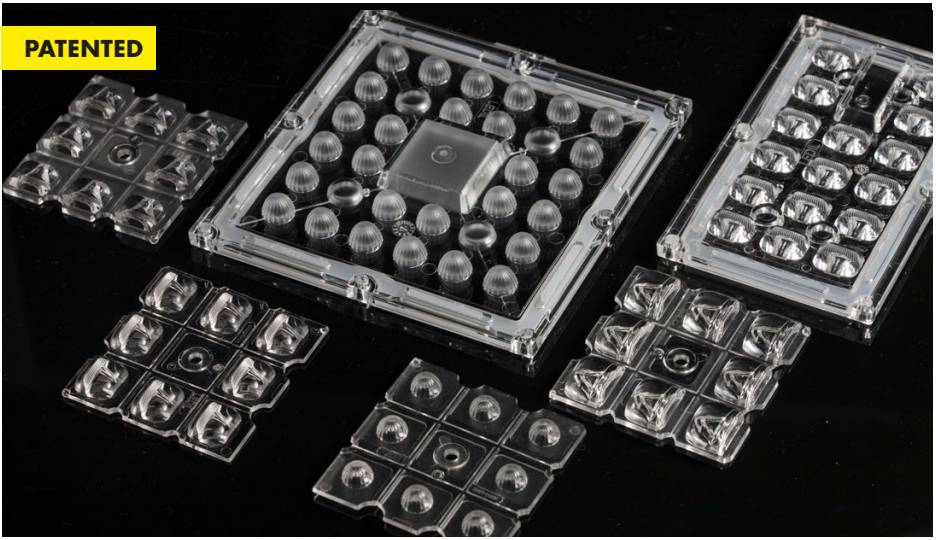
Please visit www.ledil.com for additional information, such as the latest photometric files, 3D mechanical models, and application notes relating to handling, gluing and taping.




## STRADELLA

www.ledil.com/stradellafamily

Compatibility:

- STRADELLA single lens: Up to 3535 size mid- and high-power LEDs
- STRADELLA-8: Up to 3535 size mid- and high-power LEDs
- STRADELLA-8-CSP: CSP LEDs (top emitting, up to 2.8 x 2.8 x 0.5 mm ), Fortimo FastFlex Gen5
- STRADELLA-8-5050: For flat 5050 size LEDs
- STRADELLA-16: Up to 3535 size mid-power LEDs
- STRADELLA-IP-16: Up to 3535 size mid and high power LEDs
- STRADELLA-IP-28: Up to 3535 size mid and high power LEDs
- STRADELLA-IP-64: Up to 3535 size mid and high power LEDs

### STRADELLA

| name | beam type | LEDs | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|---|
| STRADELLA-CY | wide area lighting | 1 | 4.73 | 13.9 x 13.9 | 115 | 94 | 0.3 |
| STRADELLA-T2 | asymmetric | 1 | 4.96 | 13.9 x 13.9 | asymm. | 94 | 0.8 |
| STRADELLA-T3 | asymmetric | 1 | 4.96 | 13.9 x 13.9 | asymm. | 94 | 0.7 |
| STRADELLA-T4-B | asymmetric | 1 | 5.16 | 13.9 x 13.9 | asymm. | 93 | 0.6 |
| STRADELLA-T1-A | asymmetric | 1 | 5.32 | 13.9 x 13.9 | asymm. | 94 | 0.9 |
| STRADELLA-HB-S * | spot | 1 | 7.5 | 13.9 x 13.9 | 27 | 95 | 1.5 |
| STRADELLA-HB-M * | medium | 1 | 5.7 | 13.9 x 13.9 | 58 | 94 | 0.6 |
| STRADELLA-HB-W * | wide | 1 | 7.12 | 13.9 x 13.9 | 87 | 94 | 0.5 |

* Available also in PC

### STRADELLA-8

| name | beam type | LEDs | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|---|
| STRADELLA-8-HV-ME | asymmetric | 8 | 5.5 | 50 x 50 | asymm. | 94 | 0.7 |
| STRADELLA-8-HV-ME-N | asymmetric | 8 | 5.96 | 50 x 50 | asymm. | 92 | 0.7 |
| STRADELLA-8-HV-CY | wide area lighting | 8 | 4.91 | 50 x 50 | 125 + 125 | 94 | 0.3 |
| STRADELLA-8-T2 */** | asymmetric | 8 | 5.7 | 50 x 50 | asymm. | 94 | 0.8 |
| STRADELLA-8-T3 */** | asymmetric | 8 | 5.7 | 50 x 50 | asymm. | 94 | 0.7 |
| STRADELLA-8-VSM* | wide area lighting | 8 | 5.5 | 50 x 50 | 143 | 94 | 0.4 |
| STRADELLA-8-SCL */** | asymmetric | 8 | 5.5 | 50 x 50 | asymm. | 93 | 0.7 |
| STRADELLA-8-T1-A */** | asymmetric | 8 | 5.32 | 50 x 50 | asymm. | 94 | 1.0 |
| STRADELLA-8-HB-S */** | spot | 8 | 7.5 | 50 x 50 | 27 | 90 | 1.8 |
| STRADELLA-8-HB-M */** | medium | 8 | 5.7 | 50 x 50 | 58 | 92 | 0.7 |
| STRADELLA-8-HB-W */** | wide | 8 | 7.12 | 50 x 50 | 87 | 94 | 0.5 |

* Available in HV versions with different pin locations allowing high voltage circuit designs
** Available also in PC

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 product datasheets.

| STRADELLA-8-CSP | | | | | | | |
|---|---|---|---|---|---|---|---|
| **name** | **beam type** | **LEDs** | **h** | **d** | **typ. FWHM** | **typ. eff.** | **typ. cd/lm** |
| STRADELLA-8-HV-CSP-LN1 | street | 8 | 4.4 | 50 x 50 | asymm. | 96 | 1.0 |
| STRADELLA-8-HV-CSP-LM1 | street | 8 | 4.8 | 50 x 50 | asymm. | 97 | 0.9 |
| STRADELLA-8-HV-CSP-LW1 | street | 8 | 4.9 | 50 x 50 | asymm. | 96 | 0.9 |
| STRADELLA-8-HV-CSP-VSM | street | 8 | 4.9 | 50 x 50 | asymm. | 97 | 0.6 |
| STRADELLA-8-HV-CSP-SCL | street | 8 | 4.9 | 50 x 50 | asymm. | 90 | 1.0 |
| STRADELLA-8-HV-CSP-T2-M | street | 8 | 4.9 | 50 x 50 | asymm. | 97 | 1.4 |
| STRADELLA-8-HV-CSP-T3-M | street | 8 | 4.9 | 50 x 50 | asymm. | 97 | 1.2 |
| **STRADELLA-8-5050** | | | | | | | |
| **name** | **beam type** | **LEDs** | **h** | **d** | **typ. FWHM** | **typ. eff.** | **typ. cd/lm** |
| STRADELLA-8-5050-HB-W-PC | wide | 8 | 5 | 50 x 50 | 89 | 88 | 0.5 |
| **STRADELLA-16** | | | | | | | |
| **name** | **beam type** | **LEDs** | **h** | **d** | **typ. FWHM** | **typ. eff.** | **typ. cd/lm** |
| STRADELLA-16-HB-S * | spot | 16 | 7.5 | 50 x 50 | 27 | 93 | 1.7 |
| STRADELLA-16-HB-M * | medium | 16 | 5.7 | 50 x 50 | 61 | 93 | 0.7 |
| STRADELLA-16-HB-M2 | medium | 16 | 3.2 | 50 x 50 | 55 | 93 | 1.0 |
| STRADELLA-16-HB-W * | wide | 16 | 7.12 | 50 x 50 | 92 | 94 | 0.5 |
| STRADELLA-16-HB-O | asymmetric | 16 | 4.3 | 50 x 50 | asymm. | 94 | 0.8 |
| STRADELLA-16-T1-A * | asymmetric | 16 | 4.3 | 50 x 50 | asymm. | 94 | 0.8 |
| STRADELLA-16-T2 | asymmetric | 16 | 4.7 | 50 x 50 | asymm. | 91 | 0.5 |
| STRADELLA-16-T3 | asymmetric | 16 | 3.7 | 50 x 50 | asymm. | 94 | 0.6 |
| STRADELLA-16-SCL | asymmetric | 16 | 4.4 | 50 x 50 | asymm. | 94 | 0.6 |
| STRADELLA-16-VSM | asymmetric | 16 | 4.2 | 50 x 50 | asymm. | 86 | 0.5 |
| STRADELLA-16-T4 | asymmetric | 16 | 5.3 | 50 x 50 | asymm. | 81 | 0.5 |
| STRADELLA-16-ME | asymmetric | 16 | 4.9 | 50 x 50 | asymm. | 94 | 0.6 |
| **STRADELLA-IP-16** | | | | | | | |
| **name** | **beam type** | **LEDs** | **h** | **d** | **typ. FWHM** | **typ. eff.** | **typ. cd/lm** |
| STRADELLA-IP-16-T2-PC | asymmetric | 16 | 8.45 | 100 x 60 | asymm. | 94 | 0.7 |
| **STRADELLA-IP-28** | | | | | | | |
| **name** | **beam type** | **LEDs** | **h** | **d** | **typ. FWHM** | **typ. eff.** | **typ. cd/lm** |
| STRADELLA-IP-28-T1-A * | asymmetric | 28 | 9.5 | 100 x 100 | asymm. | 94 | 0.8 |
| STRADELLA-IP-28-T2 * | asymmetric | 28 | 9.2 | 100 x 100 | asymm. | 94 | 0.8 |
| STRADELLA-IP-28-T3 * | asymmetric | 28 | 9.2 | 100 x 100 | asymm. | 94 | 0.7 |
| STRADELLA-IP-28-T4B * | asymmetric | 28 | 9.2 | 100 x 100 | asymm. | 91 | 0.7 |
| STRADELLA-IP-28-VSM * | wide area lighting | 28 | 9.5 | 100 x 100 | 138 | 94 | 0.4 |
| STRADELLA-IP-28-SCL * | asymmetric | 28 | 9.5 | 100 x 100 | asymm. | 94 | 0.6 |
| STRADELLA-IP-28-HB-S * | spot | 28 | 9.5 | 100 x 100 | 25 | 92 | 1.6 |
| STRADELLA-IP-28-HB-M * | medium | 28 | 9.5 | 100 x 100 | 65 | 94 | 0.7 |
| STRADELLA-IP-28-HB-W * | wide | 28 | 9.5 | 100 x 100 | 90 | 94 | 0.4 |

* Available also in PC

| STRADELLA-IP-64 | | | | | | | NEW |
|---|---|---|---|---|---|---|---|
| **name** | **beam type** | **LEDs** | **h** | **d** | **typ. FWHM** | **typ. eff.** | **typ. cd/lm** |
| STRADELLA-IP-64-T2-PC | street | 64 | 9.2 | 253 x 74 | asymm. | 94 | 0.8 |
| STRADELLA-IP-64-HB-S | spot | 64 | 9.2 | 253 x 74 | 30 | 92 | 2.0 |
| STRADELLA-IP-64-HB-M | medium | 64 | 9.2 | 253 x 74 | 60 | 90 | 1.0 |
| STRADELLA-IP-64-HB-W | wide | 64 | 9.2 | 253 x 74 | 90 | 92 | 0.5 |
| STRADELLA-IP-64-HB-O | oval | 64 | 9.2 | 253 x 74 | 30 + 90 | 90 | 1.1 |

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Please visit www.ledil.com for additional information, such as the latest photometric files, 3D mechanical models, and application notes relating to handling, gluing and taping.

SPORT-2X2-FT60

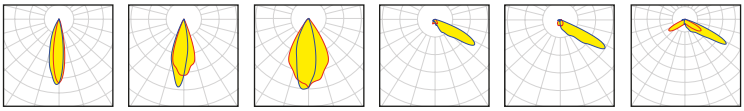
JENNY family

## SPORT-2X2

www.ledil.com/sport **NEW**

Compatibility: Optimized for HP 3535 and compatible with up to 5050 size flat LED packages

| name | | beam type | h | d | typ. FWHM | typ. eff. | typ. cd/lm |
|---|---|---|---|---|---|---|---|
| SPORT-2X2-S2 | | asymmetric | 14.2 | 50 x 50 | asymm. | 97 | 4.9 |
| SPORT-2X2-S4 | | asymmetric | 14.4 | 50 x 50 | asymm. | 97 | 2.9 |
| SPORT-2X2-S6 | | asymmetric | 15.5 | 50 x 50 | asymm. | 97 | 1.8 |
| SPORT-2X2-FT60 | | asymmetric | 15.5 | 50 x 50 | asymm. | 88 | 1.3 |
| SPORT-2X2-FT6 | | asymmetric | 11.0 | 50 x 50 | asymm. | 92 | 1.2 |
| SPORT-2X2-FT6W | | asymmetric | 12.25 | 50 x 50 | asymm. | 97 | 1.1 |
| SPORT-2X2-S1 | **COMING** | multi-lens | 13.6 | 50 x 50 | 15 | 92 | 9.0 |


S2 S4 S6 FT60 FT6 FT6W

## JENNY

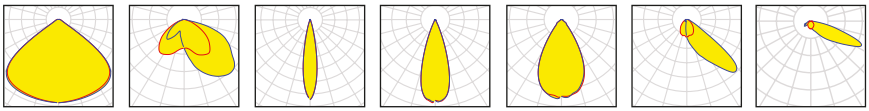
www.ledil.com/jennyfamily

UV-A-B

Comes either as a single lens or in a 8 lens array with possibility to separate lenses individually.
Can be installed with glue oroptional holder.
Compatibility: Up to 7070 size LED packages

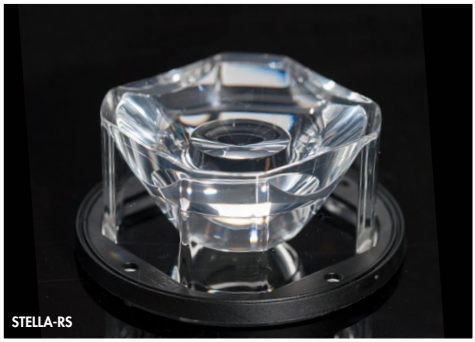
| name | height | dimensions | typ. eff. | typ. FWHM |
|---|---|---|---|---|
| JENNY-CY * | 11.5 | 35 x 35 | 94 | 106 + 106 |
| JENNY-T4 * | 17 | 35 x 35 | 92 | asymm. |
| JENNY-CY-G2 * | 11.5 | 35 x 35 | 94 | 100 |
| JENNY-T4-G2 * | 17 | 35 x 35 | 93 | asymm. |
| JENNY-20 * | 14.52 | 35 x 35 | 96 | 20 |
| JENNY-40 * | 15 | 35 x 35 | 96 | 40 |
| JENNY-60 * | 13.42 | 35 x 35 | 94 | 60 |
| JENNY-FT45 * | 20.65 | 35 x 35 | 92 | asymm. |
| JENNY-FT65 * | 15.35 | 35 x 35 | 93 | asymm. |

* Available also in 8 lens array


CY(-G2) T4(-G2) 20 40 60 FT45 FT65

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 product datasheets.

STELLA-G2-T3


STELLA-RS

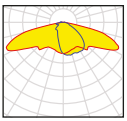
## STELLA

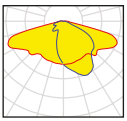
www.ledil.com/stellafamily

### STELLA-G2

Compatibility:
- Optimized for up to 23 mm and supports up to 30 mm LES size COBs
- Compatible with connectors from B+W, BJB, TE, IDEAL (Ø 50 mm and up to 5.9 mm height)

| name | d | h | typ. eff. | typ. FWHM |
|---|---|---|---|---|
| STELLA-G2-T2 | 90 | 26.5 | 86 | asymm. |
| STELLA-G2-T3 | 90 | 40.2 | 91 | asymm. |
| STELLA-G2-T4 | 90 | 45.2 | 89 | asymm. |
| STELLA-G2-VSM | 90 | 25.6 | 91 | asymm. |


T2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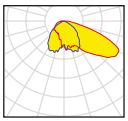
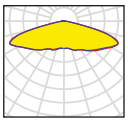

T4

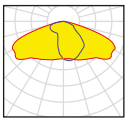

VSM

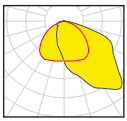
UV-A-B-C

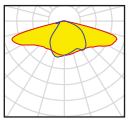
### STELLA

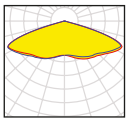
Compatibility:
- Asymmetric STELLA's: up to 23 mm LES size
- Symmetric STELLA's: up to 30 mm LES size
- 3rd party connectors from BJB, Ideal, B+W, Stucchi and TE
- Installation frame made from aluminium available for FRESNEL and WWW beams

| name | h | d | typ. eff. | typ. FWHM |
|---|---|---|---|---|
| STELLA-A | 22 | 90 | 92 | asymm. |
| STELLA-HB | 19.5 | 90 | 93 | 76 |
| STELLA-HB-WWW | 11.3 | 90 | 88 | 97 |
| STELLA-T4 | 26.9 | 90 | 92 | asymm. |
| STELLA-VSM | 20.7 | 90 | 94 | asymm. |
| STELLA-FRESNEL | 23 | 90 | 89 | 27 |
| STELLA-DWC2 | 19.27 | 90 | 92 | asymm. |
| STELLA-RS | 39.15 | 90 | 94 | 25 |
| STELLA-CLAMP-CXA15-18 | | | | |


A


T4


DWC2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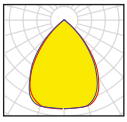
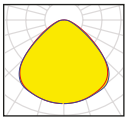
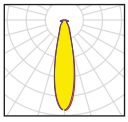
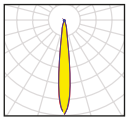

HB


HB-WWW


FRESNEL


RS

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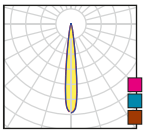
Please visit www.ledil.com for additional information, such as the latest photometric files, 3D mechanical models, and application notes relating to handling, gluing and taping.

# HIGHBAY SOLUTIONS

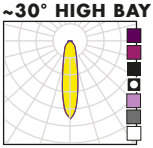
- HB-SQ
- HB-2X2
- HB-2X2-5050
- HB-2X2MX-8
- HB-2X2MXS
- HB-IP-8MX
- HB-IP-2X6
- HB-IP-2X6-G2
- STRADELLA-HB
- STRADELLA-8-HB
- STRADELLA-16-HB
- STRADELLA-IP-28-HB
- STRADELLA-IP-64-HB
- SITARA-HB
- VICTORIA
- STELLA

## ~15° HIGH BAY

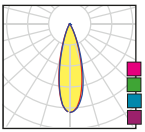


RS

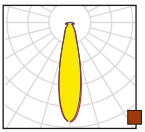
## ~30° HIGH BAY



S

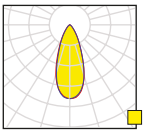


M



FRESNEL

## ~45° MID BAY



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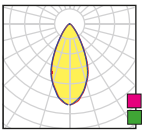
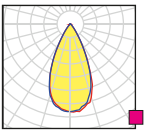
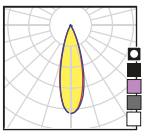


W



RW

## ~60° MID BAY



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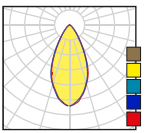

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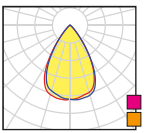

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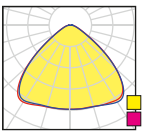

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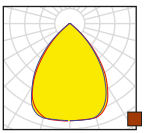
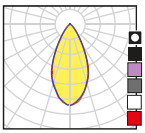
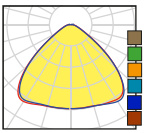


HB

## ~90° LOW BAY

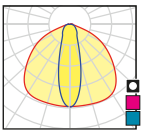


W

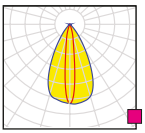


WWW

## OVAL



O



ON



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 product datasheets.

## HB FAMILY www.ledil.com/highbayfamily

### HB-SQ

Dimensions: 25 x 25 mm
Compatibility:
- Up to 7070 size LED packages

### HB-2X2 MODULES

Dimensions: 50 x 50 mm
Compatibility:
- Up to 5050 size LED packages

### HB-2X2-5050

Dimensions 50 x 50 mm
Compatibility:
- For flat 5050 size LED packages

### HB-2X2MX & SILICONE 2X2MXS MODULES

Dimensions: 90 x 90 mm
Compatibility:
- Up to 7070 size LED packages

### HB-IP-2X6 MODULES

Dimensions: 173 x 71.4 mm
Compatibility:
- Up to 5050 size LED packages

### HB-IP-2X6-G2 MODULES

Dimensions: 172 x 71 mm
Compatibility:
- Optimized for flat high power 5050 size LED packages
- Compatible with up to 5050 size LED packages

### HB-IP-8MX MODULES

Dimensions: 90 x 90 mm
Compatibility:
- Optimized for flat 5050 packages (without dome)

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## STRADELLA FAMILY www.ledil.com/stradellafamily

### STRADELLA-HB

Dimensions: 13.9 x 13.9 mm
Compatibility:
- Up to 3535 size LED packages

### STRADELLA-8-HB

Dimensions: 49.5 x 49.5 mm
Compatibility:
- Up to 3535 size LED packages

### STRADELLA-16-HB

Dimensions: 49.5 x 49.5 mm
Compatibility:
- Up to 3535 size LED packages

### STRADELLA-IP-28-HB

Dimensions: 100 x 100 mm
Compatibility:
- Up to 3535 size LED packages

### STRADELLA-IP-64-HB NEW

Dimensions: 74 x 253 mm
Compatibility:
- Up to 3535 size LED packages

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## VICTORIA www.ledil.com/victoria

Diameter: 300 mm
Compatibility:
- Optimized for 2835 and compatible with up to 5630 size mid-power LED packages
- Recommended to be used with two LEDs per one optic which can be up to 5630 in size

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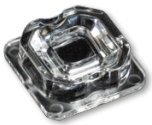
## SITARA-HB FAMILY www.ledil.com/sitara

Dimensions: 18 x 18 mm
Compatibility:
- Optimized for flat high-power 5050 size LED packages



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## STELLA FAMILY www.ledil.com/stellafamily

Diameter: 90 mm
Compatibility:
- Asymmetric STELLA's: up to 23 mm LES size
- Symmetric STELLA's: up to 30 mm LES size
- 3rd party connectors from BJB, Ideal, B+W, Stucchi and TE

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Please visit www.ledil.com for additional information, such as the latest photometric files, 3D mechanical models, and application notes relating to handling, gluing and taping.

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If you need a customized product please contact your local sales representative to discuss finding the best possible solution for your requirements.

### WHEN IS A CUSTOMIZED SOLUTION NEEDED?

- No mechanically or optically suitable product available
- Looking for a unique design solution and differentiation
- Meeting special requirements for certain applications
- Need for specific material

### WHY LEDiL?

- Full turnkey service
- No need for external 3D-designers
- Accurate light laboratory measurements
- Production facilities on different continents
- Wide testing capabilities to support product development
- Thermal analysis service from the beginning of a project
- Technical support during the whole lifetime of a product
- Broad recognition in the industry as a manufacturer of high quality products

| | | | |
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| | **SAMPSA NURMI** \| outdoor | sampsa.nurmi@ledil.com | +358 41 503 5316 |
| **ESTONIA, LATVIA, LITHUANIA** | **LINUS FUCHS** \| indoor | linus.fuchs@ledil.com | +358 0 176 4406 |
| | **TAINA KALINTIV** \| outdoor | taina.kalintiv@ledil.com | +358 40 589 1425 |
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| **FRANCE** | **BENJAMIN KIECKEN** | benjamin.kiecken@ledil.com | +33 682 795 592 |
| **SPAIN, PORTUGAL** | **DAVE SIMPSON** | dave.simpson@ledil.com | +34 607 858 901 |
| **ITALY, MALTA** | **DIEGO QUADRIO** | diego.quadrio@ledil.com | +39 340 659 9236 |
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| **MIDDLE EAST** | | | |
| **IRAN** | **BAHADOR MOZAFFARI** | bahador.mozaffari@ledil.com | +98 912 593 9355 |
| **MIDDLE EAST** | **RAÚL PARRA** | raul.parra@ledil.com | +358 40 095 6839 |
| **AFRICA** | | | |
| **ALGERIA, MOROCCO, TUNISIA, EGYPT** | **RAÚL PARRA** | raul.parra@ledil.com | +358 40 095 6839 |
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| | **TAINA KALINTIV** \| outdoor | taina.kalintiv@ledil.com | +358 40 589 1425 |
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