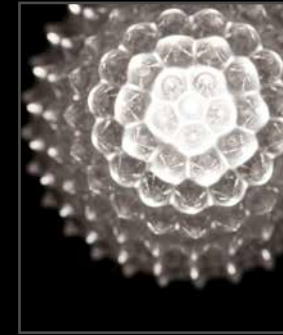


# LEDiL®



**RANGE & PRECISION**  
LEDiL's optics offer both

## LIGHT THAT IS RIGHT

LEDiL is the leading optics supplier to lighting manufacturers throughout the world. Finnish design expertise, global production, a global network of distributors supported by local sales teams and free technical support combine to guarantee the best possible solutions, service and customer experience. Our portfolio of over 4000 standard products and unlimited custom solutions together with a "can do, will do" attitude, innovative design and excellent performance make our optics solutions the first choice for demanding applications. Close cooperation with all the leading LED manufacturers allows us to release products alongside the newest LEDs. This means our customers can enjoy rapid development and deployment of new fixtures with the latest technology and be sure we provide the most competitive solutions available today. For more information, please visit [www.ledil.com](http://www.ledil.com)

### Useful information

You can find product-ordering names together with the latest product information and LED compatibility at:  
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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.

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# SINGLE LENSES

# SINGLE LENSES

## LARISA ([www.ledil.com/larisa](http://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-family ([www.ledil.com/lisa](http://www.ledil.com/lisa))

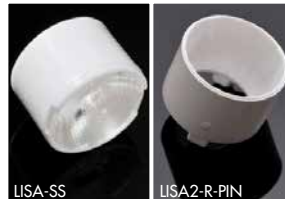
Compatibility: Up to 3535 size LED packages  
Versions with CLIP or PIN mounting available

### 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



LISA-SS

LISA2-R-PIN

Coming soon

### LISA3

Coming soon

Name	Beam type	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
LISA3-RS	RS	7	9.9	19	TBA	TBA
LISA3CSP-RS	Coming RS	TBA	9.9	19	TBA	TBA



LISA3

## VERONICA-family ([www.ledil.com/veronica-family](http://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



VERONICA

VERONICA-SQ

VERONICA-SQ-MINI



TWIDDLE-D

TINA-WW

TINA2-R-CLIP16

TINA3-S

## TWIDDLE ([www.ledil.com/twiddle](http://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-family ([www.ledil.com/tina](http://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	NEW! Batwing	≈ 10	16.1	TBA	TBA	TBA
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	Oval	≈ 10	16.1	35 x 16	87	3.5
TINA2-O-WAS	Asymm. oval	≈ 10	16.1	TBA	TBA	TBA

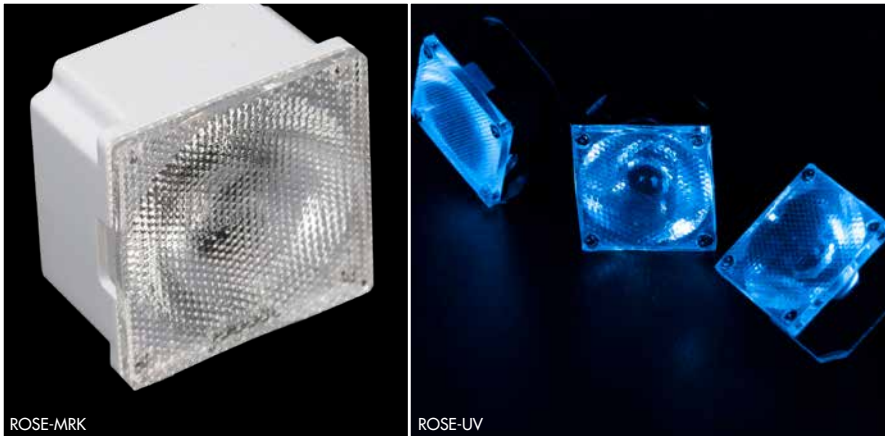
### TINA3

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



# SINGLE LENSES

# SINGLE LENSES



## ROSE-family (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-MD	MD	21.6 x 21.6	24	TBA	TBA
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	TBA
ROSE-MRK-M	Medium	21.6 x 21.6	43	84	TBA
ROSE-MRK-W	Wide	21.6 x 21.6	62	84	TBA
ROSE-MRK-BW	Batwing	21.6 x 21.6	68	84	0.7

### ROSE-UV

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

Name	Beam type	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
G2-NIS033U-S	Spot	12.9	21.6x21.6	20	92	TBA
G2-NIS033U-M	Medium	12.9	21.6x21.6	25	91	TBA
G2-NIS033U-W	Wide	12.9	21.6x21.6	43	91	TBA
G2-ROSE-UV-SS	Smooth spot	12.9	21.6x21.6	TBA	TBA	TBA
G2-ROSE-UV-M	Medium	12.9	21.6x21.6	TBA	TBA	TBA
G2-ROSE-UV-W	Wide	12.9	21.6x21.6	TBA	TBA	TBA

## LAURA-G2 (www.ledil.com/laura)

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-RXW-P	13.1	21.6 x 21.6	72	86	0.6
G2-LAURA-R-WAS-P	13.1	21.6 x 21.6	Asym.	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	Asym.	84	2.6
G2-LAURA-O90-P	13.1	21.6 x 21.6	15+40	90	4.4

## LAURA (www.ledil.com/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-R-W	13	21.6 x 21.6	70	77	0.5
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

## LEILA-G2 (www.ledil.com/leila)

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 (www.ledil.com/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
-SS	14.6	21.6	12	TBA	TBA
-MD	14.6	21.6	24	90	TBA
-W	14.6	21.6	42	90	1.6
-WW	14.6	21.6	42	TBA	TBA
-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

\*Subject to the LED type, check www.ledil.com/leila for actual values.



G2-LAURA-O-WAS



LAURA-RS



LEILA

LEILA-G2



LEILA-WAS

# SINGLE LENSES

## BILLIE (www.ledil.com/billie)

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

## 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

## 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	TBA
EVA-SS	Smooth spot	16.4	37.7	11	94	TBA
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



BILLIE



IRENE-IR-16



IRIS-O

MIRA-M



EVA-SS

# SINGLE LENSES

NEW!



SURI-RS

NEW!



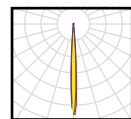
OLGA-S

## SURI (www.ledil.com/products)

NEW!

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	TBA



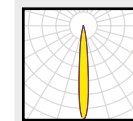
SURI-RS

## OLGA (www.ledil.com/products)

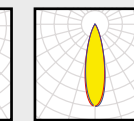
NEW!

Compatibility: Up to 7070 size LED packages

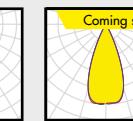
Name	D	H	Typ. FWHM	Typ. eff.	Typ.cd/lm	
OLGA-S	30 / 32	18.5 / 19.1	11	87	13.6	
OLGA-M	30 / 32	18.5 / 19.1	25	85	2.8	
OLGA-W	Coming soon	30 / 32	18.5 / 19.1	40	89	2.2



OLGA-S



OLGA-M



OLGA-W

# SINGLE LENSES



## TITANUM/SPUTNIK ([www.ledil.com/products](http://www.ledil.com/products))

Compatibility: Up to 3535 size LED packages

Name	Beam type	D	Typ. FWHM	Typ. Eff.
TITANUM/SPUTNIK-SS	Smooth spot	26	9	84
TITANUM/SPUTNIK-M	Medium	26	26	87
TITANUM/SPUTNIK-W	Wide	26	66	71
TITANUM/SPUTNIK-O	Oval	26	36 x 8	89

## EMILY ([www.ledil.com/emily](http://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-WWWW	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](http://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-WR	21.6	31	87	4.1
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	21.6	35 + 57	76	1.4
HEIDI-REC-90	21.6	36 + 57	78	1.3

# SINGLE LENSES

## KIKI ([www.ledil.com/kiki](http://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



KIKI-A

JULIA-A

## JULIA ([www.ledil.com/julia](http://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



JULIA-A

## LOTTA ([www.ledil.com/lotta](http://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	19.6x15.4	168	88	TBA



EMMA-A

STRADA-S-14

## EMMA ([www.ledil.com/emma](http://www.ledil.com/emma))

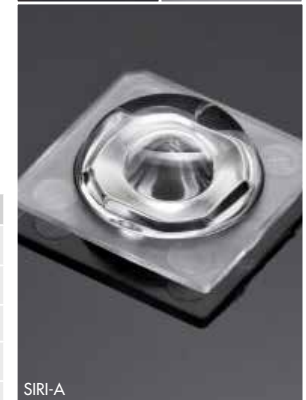
Compatibility: Up to 3535 size LED packages

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

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
STRADA-S-14	Side emitter	6.5	19.6 x 13.8	142+170	94	0.4



SIRI-A

## SIRI ([www.ledil.com/siri](http://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	13.9x13.9	74 + 134	95	0.3
SIRI-DOME	LED cover, no effect on the light	4.9	13.9x13.9	144	97	0.2
SIRI-DIFF		4.9	13.9x13.9	144	95	0.2



# SINGLE LENSES

## LEIA ([www.ledil.com/products](http://www.ledil.com/products))

NEW!

Compatibility: Optimized 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
<b>Additional accessories</b>					
LEIA-SUB-O	Narrow oval sublens				

## HELENA ([www.ledil.com/helena](http://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-family ([www.ledil.com/emerald](http://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-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-IRIS ([www.ledil.com/venla](http://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



# SINGLE LENSES



## FLARE-family ([www.ledil.com/flarefamily](http://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](http://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/products](http://www.ledil.com/products))

Compatibility: Up to 7070 size LED packages

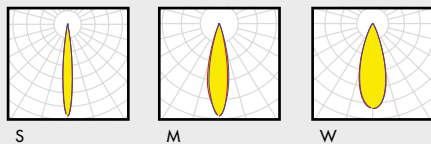
Name	Beam type	H	D	Typ. FWHM	Typ. Eff.
SEANNA-A	Real Spot	79	152.6	2.3	87

## RGBW MIXING



### GABRIELLA-family ([www.ledil.com/gabriella](http://www.ledil.com/gabriella))

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	TBA
GABRIELLA-45-M	45	29	25	86	TBA
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	TBA	TBA	TBA
GABRIELLA-MIDI-W	38	24	TBA	TBA	TBA

### GERI ([www.ledil.com/geri-rz](http://www.ledil.com/geri-rz))

Compatibility: A range of multi-color LEDs up to 7070 size packages

Name	D	H	Typ. FWHM	Typ. eff.	Typ.cd/lm
GERI-RZ	45 x 45	32.8	15	88	7.3

### RGBX ([www.ledil.com/products](http://www.ledil.com/products))

Compatibility: Up to 5050 size RGB LEDs

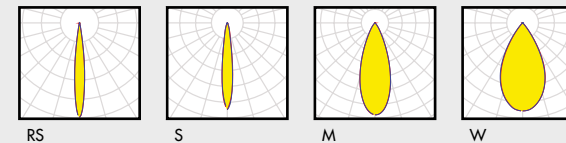
Name	D	H	Typ. FWHM	Typ. eff.	Typ.cd/lm
RGBX-SS	28	30	20	85	3.8
RGBX-M	28	30	30	70	TBA
RGBX-O	28	30	48 + 25	70	TBA
RGBX2-S	28	30	20	77	4.6
RGBX2-M	28	30	34	68	1.5
RGBX2-O	28	30	48 + 24	66	1.5



### CARMEN-family ([www.ledil.com/carmen](http://www.ledil.com/carmen))

Compatibility:

- CARMEN-50: LES sizes up to 10 mm  
CARMEN-70: LES sizes up to 11 mm  
CARMEN-90: LES sizes up to 14.5 mm
- Holder B: (CARMEN-70-S, -M, -W): 3<sup>rd</sup> party connectors from BJB and Stucchi  
Holder C: LEDiL HEKLA



#### CARMEN-50

Name	Beam type	H	D	Typ. FWHM
CARMEN-50-RS	Real spot	25.5	50	12
CARMEN-50-S	Spot	25.5	50	24
CARMEN-50-M	Medium	25.5	50	35
CARMEN-50-W	Wide	25.5	50	50

#### CARMEN-70

Name	Beam type	H	D	Typ. FWHM
CARMEN-RS	Real spot	36.3	69.9	10
CARMEN-S	Spot	36.3	69.9	14
CARMEN-M	Medium	36.3	69.9	34
CARMEN-W	Wide	36.3	69.9	55

#### CARMEN-90

Name	Beam type	H	D	Typ. FWHM
CARMEN-90-RS	Real spot	39.3	90	11

Coming soon



# SINGLE LENSES

# SINGLE LENSES



RONDA

## RONDA ([www.ledil.com/ronda](http://www.ledil.com/ronda))

### Compatibility

- LES sizes up to 16 mm, asymmetric up to 14.5 mm
- Holder A: LEDiL twist and lock base parts, 3<sup>rd</sup> party connectors from TE, Bender+Wirth and Ideal
- Holder B: 3<sup>rd</sup> party connectors from BJB, Ideal and Stucchi
- Holder C: LEDiL HEKLA



Name	Beam type	D (HLD A/B)	D (HLD C)	Typ. FWHM	Typ. Eff.	Typ. cd/Im
RONDA-S	Spot	69.9	53.9	27	85	TBA
RONDA-W	Wide	69.9	53.9	43	87	TBA
RONDA-WW	Extra wide	69.9	53.9	62	89	TBA
RONDA-WWW	Extra <sup>2</sup> wide	69.9	53.9	90	87	TBA
RONDA-REC-60	Rectangular	69.9	53.9	58 + 58	89	TBA
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	TBA
RONDA-WAS2	Asymm.	69.9	53.9	Asymm.	89	0.9
RONDA-ZT45	Double asymmetric	69.9	53.9	Asymm.	85	0.5



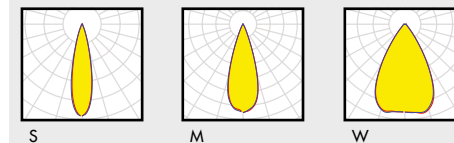
MOLLY

## MOLLY ([www.ledil.com/molly](http://www.ledil.com/molly))

### Compatibility:

- Optimized for 14.5 mm LES and compatible up to 19 mm LES
- Compatible with LEDiL's C13658\_CLAMP-VERO13-18, C14123\_CLAMP-CXA15-18, C14036\_CLAMP-CXA25-30
- Can be used with 3<sup>rd</sup> party 3-hook fastening solutions

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



# SINGLE LENSES

# SINGLE LENSES



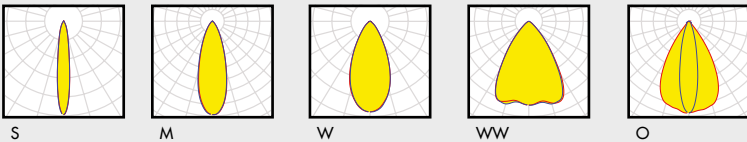
## WINNIE (www.ledil.com/winniefamily)

Compatibility:

- COBs with LES sizes up to 21 mm
- 3<sup>rd</sup> party connectors from Bender+Wirth
- LEDiL HEKLA with holder C



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



## OLIVIA (www.ledil.com/olivia)

Compatibility:

- LES sizes up to 19 mm
- 3<sup>rd</sup> party connectors from BJB, Stucchi, Bender+Wirth and TE

Name	Beam type	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
OLIVIA-S	Spot	22.6	70	20	77	3.3
OLIVIA-M	Medium	22.6	70	59	77	0.9



## SAGA (www.ledil.com/sagafamily)

Compatibility:

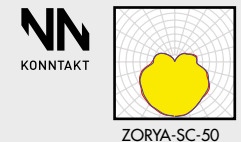
- COB's with LES sizes up to 14 mm
- 3<sup>rd</sup> party connectors from Bender+Wirth

Name	Beam type	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
SAGA-HB-IP-WHT	High Bay	12	50	62	90	0.8
SAGA-S-WHT	Coming soon Spot	13.7	50	29	93	TBA

## ZORYA-family (www.ledil.com/zorya)

Compatibility:

- ZORYA-SC-50: LES sizes from 6 mm to 24 mm
- LEDiL's HEKLA and 3<sup>rd</sup> party connectors from BJB and Stucchi
- ZORYA-MINI: For high power LEDs up to 7070 size packages



### ZORYA

Name	Height	Dimensions	Typ. eff.	Typ. FWHM
ZORYA-SC-50	35	55	97	245
ZORYA-SC-HEKLA	35	55	94	245

### ZORYA-MINI

Name	Height	Dimensions	Typ. eff.	Typ. FWHM
ZORYA-MINI	14.6	22	98	145

## SATU ([www.ledil.com/satu](http://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



SATU-O

## CUTE ([www.ledil.com/cute](http://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	TBA	TBA
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	TBA

### CUTE-4

Name	Beam type	LEDs	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
CUTE-4-SS	SS	4	15	35	11	88	13.2
CUTE-4-M	M	4	15	35	22	84	4.3
CUTE-4-W	W	4	15	35	38	TBA	TBA



CUTE

## GT3 ([www.ledil.com/gt3](http://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



GT3-M

GT4

## GT4 ([www.ledil.com/gt4](http://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



GT4-S

## ANGIE ([www.ledil.com/angie](http://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-M	M		10,7	34	19	89	6.2
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](http://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-MD	MD	7	11.4	38	22	91
NIS83-MX-7-W	W	7	11.4	38	37	89
NIS83-MX-7-WW	WW	7	11.4	38	57	87
RER-7-S	S	7	10.6	38	19	89
RER-7-MD	MD	7	10.6	38	33	85
RER-7-W	W	7	10.6	38	41	82
RER-7-WW	WW	7	10.6	38	53	90



NIS83-MX-7-M

## QUAK ([www.ledil.com/quak](http://www.ledil.com/quak))

Compatibility: Up to 3535 size LED packages

Name	Beam type	LEDs	H	D	Typ. FWHM
NIS83-MX-4-SS	SS	4	15.23	50	15
NIS83-MX-4-M	M	4	15.23	50	21
NIS83-MX-4-W	W	4	15.23	50	49

## ANNA ([www.ledil.com/anna](http://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-40-3-S	S	3	40	10.7	15	91	8.5
ANNA-40-4-S		4					
ANNA-40-5-S		5					
ANNA-40-6-S		6					
ANNA-40-7-S	7	S	40	10.7	15	85	TBA
ANNA-40-7-S-PC	7						
ANNA-40-3-M	3						
ANNA-40-4-M	4	M	40	10.7	22	88	3.7
ANNA-40-5-M	5						
ANNA-40-6-M	6						
ANNA-40-7-M	7	M	40	10.7	25	87	3.2
ANNA-40-7-M2	7						
ANNA-40-3-W	3						
ANNA-40-4-W	4	W	40	10.7	32	86	1.9
ANNA-40-5-W	5						
ANNA-40-6-W	6						
ANNA-40-7-W	7	WW	40	12.5	64	90	0.9
ANNA-40-7-WW	6						



NIS83-MX-4-M

### 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-50-4-S		4					
ANNA-50-5-S		5					
ANNA-50-6-S		6					
ANNA-50-7-S	7	M	50	10.7	22	88	3.7
ANNA-50-3-M	3						
ANNA-50-4-M	4						
ANNA-50-5-M	5	M	50	10.7	32	86	1.9
ANNA-50-6-M	6						
ANNA-50-7-M	7						
ANNA-50-3-W	3	W	50	10.7	32	86	1.9
ANNA-50-4-W	4						
ANNA-50-5-W	5						
ANNA-50-6-W	6	WW	50	10.7	32	86	1.9
ANNA-50-7-W	7						



ANNA-50-5-S



# MULTI-LENS ARRAYS

# MULTI-LENS ARRAYS



## MELODY ([www.ledil.com/melody](http://www.ledil.com/melody))

Compatibility: Up to 3535 size LED packages

Name	Beam type	LEDs	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
MELODY-4-S	S	4	11.9	50.6	12	89	14.8
MELODY-4-M	M	4	11.9	50.6	29	89	2.8
MELODY-3-M	M	3	11.9	50.6	34	92	2.1

## TUIJA ([www.ledil.com/tuija](http://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	SS	3	14.5	50	12	90	12.9
TUIJA-3-M	M	3	14.5	50	16	84	5.6
TUIJA-3-M2	M	3	14.5	50	35	87	2
TUIJA-3-W	W	3	14.5	50	53	86	0.9

## SANDRA ([www.ledil.com/sandra](http://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](http://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

## PETUNIA ([www.ledil.com/petunιαfamily](http://www.ledil.com/petunιαfamily))

Compatibility: Up to 3535 size LED packages

Name	LEDs	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
PETUNIA	12	7.4	29.5 x 46.5	29	91	2.2

## IDA ([www.ledil.com/idafamily](http://www.ledil.com/idafamily))

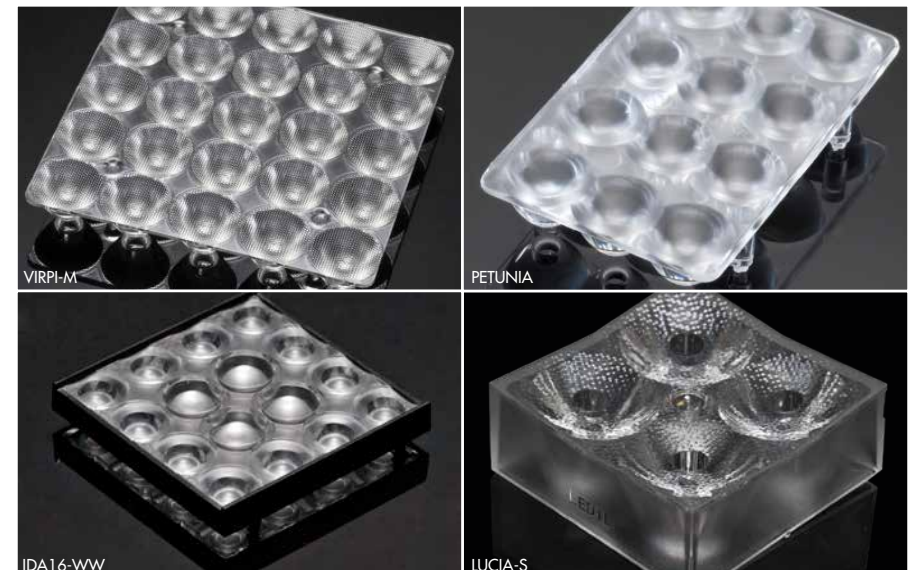
Compatibility: Up to 3535 size mid-power LED packages

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

## LUCIA ([www.ledil.com/lucia](http://www.ledil.com/lucia))

Compatibility: Up to 7070 size LED packages

Name	Beam type	LEDs	H	D	Typ. FWHM	Typ. eff.	Typ. cd/lm
LUCIA-S	Spot	4	34.68	90 x 90	15	93	21.2
LUCIA-D	Diffused spot	4	34.68	90 x 90	7	88	37.5

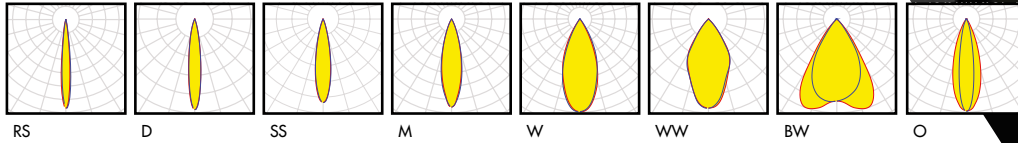


## FLORENTINA-family

### COMPATIBILITY

**12x1:** LEDiL standard TINA/TINA2 lenses (up to 3535 LED size packages)

**1, 2x2, 4x1, -OPEN:** LEDiL standard ROSE lenses up to 5050 size and ROSE-MRK lenses up to 7070 size LED packages



### FLORENTINA-1 2X1 ([www.ledil.com/florentina](http://www.ledil.com/florentina))

Name	Beam type	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
FLORENTINA-RS	Real spot	25.1	29 x 287	11	84	16.7
FLORENTINA-D	Diffused spot	25.1	29 x 287	13	84	9.6
FLORENTINA-SS	Smooth spot	25.1	29 x 287	21	85	5.9
FLORENTINA-M	Medium	25.1	29 x 287	29	81	3.3
FLORENTINA-W	Wide	25.1	29 x 287	42	84	1.8
FLORENTINA-WW	Extra Wide	25.1	29 x 287	50	78	1.1
FLORENTINA-BW	<b>NEW!</b> Batwing	25.1	29 x 287	60	81	TBA
FLORENTINA-O	Oval	25.1	29 x 287	35 + 12	83	5.1

### FLORENTINA-1 ([www.ledil.com/florentina-1](http://www.ledil.com/florentina-1))

Name	Beam type	H	D	Typ. FWHM	Typ. eff.	Typ. cd/lm
FLORENTINA-1-RS-60	Real spot	31.9	39.7 x 39.7	16	80	9.3
FLORENTINA-1-SS-60	Smooth spot	31.9	39.7 x 39.7	18	83	7
FLORENTINA-1-D-60	Diffused spot	31.9	39.7 x 39.7	21	77	5.1
FLORENTINA-1-M-60	Medium	31.9	39.7 x 39.7	31	78	2.6
FLORENTINA-1-W-60	Wide	31.9	39.7 x 39.7	44	71	1.3
FLORENTINA-1-O-60	Oval	31.9	39.7 x 39.7	44 + 20	72	2.8
FLORENTINA-1-MRK-S-60	Spot	31.9	39.7 x 39.7	26	68	2.3
FLORENTINA-1-MRK-M-60	Medium	31.9	39.7 x 39.7	40	75	1.4
FLORENTINA-1-MRK-W-60	Wide	31.9	39.7 x 39.7	57	70	0.7

### FLORENTINA-2X2 ([www.ledil.com/florentina-2x2](http://www.ledil.com/florentina-2x2))

Name	Beam type	H	D	Typ. FWHM	Typ. eff.	Typ. cd/lm
FLORENTINA-2X2-RS	Real spot	17.7	95.6 x 95.6	16	78	7.4
FLORENTINA-2X2-D	Diffused spot	17.7	95.6 x 95.6	19	77	5.5
FLORENTINA-2X2-SS	Smooth spot	17.7	95.6 x 95.6	20	79	5.4
FLORENTINA-2X2-M	Medium	17.7	95.6 x 95.6	30	75	2.4
FLORENTINA-2X2-W	Wide	17.7	95.6 x 95.6	49	70	1.0
FLORENTINA-2X2-O	Oval	17.7	95.6 x 95.6	44 + 18	70	2.5
FLORENTINA-2X2-MRK-S	Spot	17.7	95.6 x 95.6	28	68	2.1
FLORENTINA-2X2-MRK-M	Medium	17.7	95.6 x 95.6	42	74	1.4
FLORENTINA-2X2-MRK-W	Wide	17.7	95.6 x 95.6	53	94	0.7

Also available with white shade

### FLORENTINA-4X1 ([www.ledil.com/florentina-4x1](http://www.ledil.com/florentina-4x1))

Name	Beam type	H	D	Typ. FWHM	Typ. eff.	Typ. cd/lm
FLORENTINA-4X1-RS	Real spot	17.7	175.6 x 55.6	TBA	TBA	
FLORENTINA-4X1-SS	Smooth spot	17.7	175.6 x 55.6	16	81	8.5
FLORENTINA-4X1-D	Diffused spot	17.7	175.6 x 55.6	18	77	6.6
FLORENTINA-4X1-M	Medium	17.7	175.6 x 55.6	30	75	2.4
FLORENTINA-4X1-W	Wide	17.7	175.6 x 55.6	36	69	1.5
FLORENTINA-4X1-O	Oval	17.7	175.6 x 55.6	44 + 15	74	3.0
FLORENTINA-4X1-MRK-S	Spot	17.7	175.6 x 55.6	28	TBA	2.1
FLORENTINA-4X1-MRK-M	Medium	17.7	175.6 x 55.6	39	75	1.5
FLORENTINA-4X1-MRK-W	Wide	17.7	175.6 x 55.6	49	73	0.8

Also available with white shade

### FLORENTINA-OPEN ([www.ledil.com/open](http://www.ledil.com/open))

Name	Beam type	H	D	Typ. FWHM	Typ. eff.	Typ. cd/lm
FLORENTINA-2X2-OPEN-RS	Real spot	17.7	91.1 x 91.1	15	80	6.2
FLORENTINA-2X2-OPEN-SS	Smooth spot	17.7	91.1 x 91.1	17	83	7.6
FLORENTINA-2X2-OPEN-D	Diffused spot	17.7	91.1 x 91.1	18	80	6.2
FLORENTINA-2X2-OPEN-M	Medium	17.7	91.1 x 91.1	30	80	2.7
FLORENTINA-2X2-OPEN-W	Wide	17.7	91.1 x 91.1	49	70	1.0
FLORENTINA-2X2-OPEN-O	Oval	17.7	91.1 x 91.1	44 + 17	73	2.7
FLORENTINA-2X2-MRK-OPEN-S	Spot	17.7	91.1 x 91.1	29	71	2.0
FLORENTINA-2X2-MRK-OPEN-M	Medium	17.7	91.1 x 91.1	39	75	1.5
FLORENTINA-2X2-MRK-OPEN-W	Wide	17.7	91.1 x 91.1	49	74	0.8
FLORENTINA-4X1-OPEN-RS	Real spot	17.7	91.1 x 91.1	18	77	8.2
FLORENTINA-4X1-OPEN-SS	Smooth spot	17.7	91.1 x 91.1	17	78	6.6
FLORENTINA-4X1-OPEN-D	Diffused spot	17.7	91.1 x 91.1	18	77	6.6
FLORENTINA-4X1-OPEN-M	Medium	17.7	91.1 x 91.1	30	75	2.6
FLORENTINA-4X1-OPEN-W	Wide	17.7	91.1 x 91.1	45	70	1.3
FLORENTINA-4X1-OPEN-O	Oval	17.7	91.1 x 91.1	41 + 17	71	2.9
FLORENTINA-4X1-MRK-OPEN-S	Spot	17.7	91.1 x 91.1	29	71	2.0
FLORENTINA-4X1-MRK-OPEN-M	Medium	17.7	91.1 x 91.1	39	75	1.5
FLORENTINA-4X1-MRK-OPEN-W	Wide	17.7	91.1 x 91.1	49	74	0.8

## FLORENCE-family ([www.ledil.com/florence-family](http://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	TBA	86	1.0
FLORENCE-1R-ZT25	Double asymm.	106 + 80	92	0.5
FLORENCE-1R-O	Oval	96 + 32	94	0.9
FLORENCE-1R-MAXI-WG	Asymmetric	TBA	94	1.4
FLORENCE-1R-UP	Wide area lighting	TBA	TBA	TBA
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	TBA
FLORENCE-1R-GC-ZT25	Asymmetric	TBA	TBA	TBA

### 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	TBA
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	TBA	TBA	TBA
FLORENCE-3R-IP-O	Oval	84 + 40	86	0.7

### FLORENCE2

NEW!

Compatibility: All Zhaga 3R PCBs including 2ft PCBs

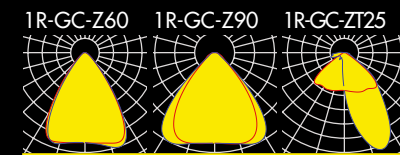
Name	Beam type	Typ. FWHM	Typ. eff.	Typ. cd/lm
FLORENCE2-Z90	Extra Wide	85	94	0.6
FLORENCE2-Z60	Wide	52	92	1.2

## FLORENCE-family

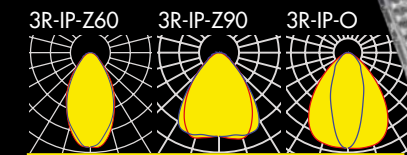
### FLORENCE-1R



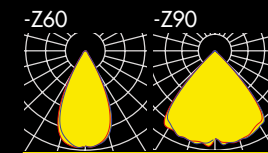
### FLORENCE-1R-GC



### FLORENCE-3R-IP

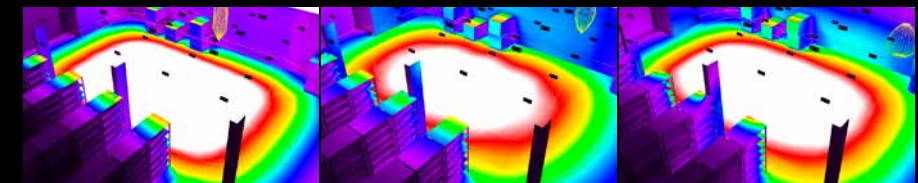


### FLORENCE2



NEW!

### FLORENCE-3R



(3R) Z30 ~7 meters

(3R) Z60 ~5 meters

(3R) Z90 ~3.5 meters



# LINEAR LENSES

# LINEAR LENSES



**NEW!**

**NEW!**

## DAISY ([www.ledil.com/products](http://www.ledil.com/products))

**NEW!**

Compatibility: Optimized for 2835 and compatible with up to 5630 size mid-power LED packages. Recommended to be used with two up to 5630 size mid-power LED packages under one optic. Can be used with 5050 size LED packages without dome. Compatible with up to 4ft long PCBs.

### 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-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

## VANESSA ([www.ledil.com/vanessafamily](http://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	TBA
VANESSA-M	Medium	12	8	295 x 16	26	89	TBA
VANESSA-O	Oval	12	8	295 x 16	42 + 19	82	TBA
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

## SHELLY ([www.ledil.com/shelly](http://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

## LILIAN ([www.ledil.com/products](http://www.ledil.com/products))

**NEW!**

Compatibility: Optimized for up to 20 mm wide mid-power PCBs. Optimized for 1.0 mm thick profiles

Name	H	D	Typ. FWHM	Typ. Eff.
LILIAN-ON	14.8	286 x 27	10 + 60	92

## LINNEA-family ([www.ledil.com/linnea](http://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

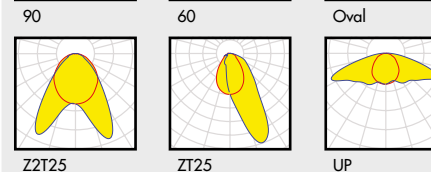
LINNEA-END-MS Short end cap (male) compatible with all LINNEAs  
 LINNEA-END-FS Short end cap (female) compatible with all LINNEAs

LINNEA-XX\*-END-ML Long end cap (male) - Clips for 1.0 mm thick metal sheet assembly with LINNEA

LINNEA-XX\*-END-FL Long end cap (female) - Clips for 1.0 mm thick metal sheet assembly with LINNEA

LINNEA-XX\*-END-B-ML Long end cap (male) - Clips for 0.5 mm thick metal sheet assembly with LINNEA-B

LINNEA-XX\*-END-B-FL Long end cap (female) - Clips for 0.5 mm thick metal sheet assembly with LINNEA-B

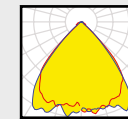


\* Optical variant

### LINNEA-GC

**NEW!**

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



**NEW!**

## MINNIE ([www.ledil.com/minnie](http://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	Typ. FWHM	Typ. Eff.	Typ. cd/lm
MINNIE-M	Medium	24	90	2.6
MINNIE-W	Wide	33	89	2.0
MINNIE-WWW	Extra wide	69	91	0.9
MINNIE-XW	Extra <sup>2</sup> wide	90	92	0.5
MINNIE-LT-M	Medium	21	92	2.0
MINNIE-LT-W	Wide	29	92	2.0
MINNIE-LT-WWW	Extra wide	62	93	0.87
MINNIE-LT-XW	Extra <sup>2</sup> wide	TBA	TBA	TBA



## BOOM ([www.ledil.com/boom](http://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



## BRIDGET ([www.ledil.com/products](http://www.ledil.com/products))

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



## VENLA ([www.ledil.com/venla](http://www.ledil.com/venla))

Compatibility: Up to 7070 size LED packages

Name	H	D	Typ. FWHM	Typ. eff.
VENLA-S	25	45	13	TBA
VENLA-M	25	45	28	90
VENLA-W	25	45	45	TBA
VENLA-WW	25	45	56	87
VENLA-S-IRIS	25	45	18	93

## RITA ([www.ledil.com/rita](http://www.ledil.com/rita))

Compatibility: Up to 5050 size LED packages

Name	Beam type	H	D	Typ. eff.	Typ. cd/lm
RITA-A	Asymm.	17	36 x 28.4	87	0.6
RITA-WAS	Asymm.	17	31.9x28.4	85	0.63
RITA-A-RZ	Asymm.	19	35 x 29	82	0.6
RITA-WAS-RZ	Asymm.	19	35 x 29	80	0.6

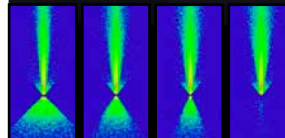


## BLONDIE ([www.ledil.com/blondie](http://www.ledil.com/blondie))

Comes with three interchangeable inserts for backside light shaping.

Compatibility: Up to 7070 size LED packages

Name	H	D	Beam type
BLONDIE-A	45	92 x 78.3	Decorative



## 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 turn or press fit installations. Enhance with the LEDiL's patented RZ-technology for smoother uniform light patterns.



## BROOKE

### BROOKE-G2 ([www.ledil.com/brooke-g2](http://www.ledil.com/brooke-g2))

Compatible with LEDiL HEKLA connectors/sockets  
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	TBA
BROOKE-G2-M	19.7	45	28	92	TBA
BROOKE-G2-W	19.7	45	47	92	TBA

#### Additional accessories

BARBARA-RZ-LENS Color mixing sublens  
LEDiL HEKLA Sockets (Check compatibility on page 39 or [www.ledil.com](http://www.ledil.com))



## MIRELLA-family

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

### MIRELLA-G2

Compatible with LEDiL HEKLA connectors/sockets  
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	Color mixing lens
LEDiL HEKLA connectors and sockets (Check compatibility on page 39 or www.ledil.com)	



MIRELLA-G2

### MIRELLA-PF

Press-fit fastening with LEDiL sockets

Compatibility:

- COBs with LES size up to 14 mm
- 3<sup>rd</sup> party connectors from Bender+Wirth and Ideal

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

#### LEDiL PF Sockets

XTM-PF-ADAPTER	
SOCKET-CXA15-18	
SOCKET-CXA15	
PF-NSX-SOCKET	
PF-SOCKET	
SOCKET-VERO10	
SOCKET-VERO13/18	



MIRELLA-PF

## BARBARA-family

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

### BARBARA-G2

Compatible with LEDiL HEKLA connectors/sockets  
Compatibility: COBs with LES size up to 18 mm



Name	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
BARBARA-G2-S	41.9	70	13	TBA	TBA
BARBARA-G2-M	41.9	70	25	TBA	TBA
BARBARA-G2-W	41.9	70	40	TBA	TBA
BARBARA-G2-WW	41.9	70	60	TBA	TBA

#### Additional accessories

BARBARA-RZ-LENS	Color mixing sublens
LEDiL HEKLA connectors and sockets (Check compatibility on page 39 or www.ledil.com)	



BARBARA-G2

### BARBARA-PF

Press-fit fastening for LEDiL sockets

Compatibility:

- COBs with LES size up to 19 mm
- 3<sup>rd</sup> party connectors from Bender+Wirth

Name	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
BARBARA-S-PF	41.7	70	21	88	TBA
BARBARA-W-PF	41.7	70	28	85	TBA
BARBARA-WW-PF	41.7	70	64	84	TBA
BARBARA-XW-PF	41.7	70	74	90	TBA

#### Additional accessories

BARBARA-RZ-LENS	Color mixing sublens
<b>LEDiL PF Sockets</b>	
XTM-PF-ADAPTER	Adapter ring for Xicato XTM/XIM modules
SOCKET-CXA15-18	
SOCKET-CXA15	
PF-NSX-SOCKET	
PF-SOCKET	
SOCKET-VERO10	
SOCKET-VERO13/18	



BARBARA-PF

### XTM-ADAPTER

Ultimate light quality – LEDiL System Reflectors are now compatible with Xicato light engines

Name	Compatible optics
XTM-ADAPTER-50-A	RONDA-A, MOLLY, ANGELA, ANGELETTE, ANGELINA
XTM-ADAPTER-50-B	G2 reflectors, ANGELINA-B, ANGELETTE-B, ANGELA-B
XTM-ADAPTER-50-C	RONDA, CARMEN



XTM-ADAPTER-50-B



## LENA / LENINA

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

### LENA ([www.ledil.com/lenafamily](http://www.ledil.com/lenafamily))

Compatibility:

- COBs with LES size up to 35 mm
- 3<sup>rd</sup> party connectors from Ideal, Stucchi and Bender+Wirth,

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	Asym	82	1.1

#### Additional accessories

LENA-LENS	Diffuser lens
LENA-CLEAR-LENS	Clear lens

### LENINA ([www.ledil.com/leninafamily](http://www.ledil.com/leninafamily))

Compatibility:

- COBs with LES size up to 35 mm
- 3<sup>rd</sup> party connectors from Ideal, Stucchi and Bender+Wirth

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

#### Additional accessories

LENINA-DL	Diffuser lens
LENINA-CL	Clear lens

### Base parts for LENA/LENINA

Name	
LENA-ADAPTER-B	Adapter ring for BJB interface
LENA-STD-BASE-CXA15	Cree CXA15xx
LENA-STD-BASE-CXA20	Cree CXA20xx
LENA-STD-BASE-CXA18	Cree CXA18xx
LENA-STD-BASE-CXA25	Cree CXA25xx
LENA-STD-BASE-CL340	Citizen CL340
LENA-STD-BASE-CLL030	Citizen CLL030
LENA-STD-BASE-CLL040	Citizen CLL040
LENA-STD-BASE-BXRA	Bridgelux BXRA
LENA-STD-BASE-BASE-RS	Bridgelux RS
LENA-STD-BASE-VERO13-18	Bridgelux VERO13-18
LENA-STD-BASE-VERO29	Bridgelux VERO29
LENA-STD-BASE-MEZ	Sharp Mega Zenigata
LENA-STD-BASE-LUXEON-K	Lumileds Luxeon K
LENA-STD-BASE-COB204	Nichia CoB204
LENA-STD-BASE-E30	Osram Soloriq E30



## ANGELA / ANGELINA / ANGELETTE

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

### ANGELA ([www.ledil.com/angela-family](http://www.ledil.com/angela-family))

Compatibility:

- COBs with LES size up to 32 mm
- 3<sup>rd</sup> party connectors from Ideal, Bender+Wirth, TE and Molex

Name	Beam type	D	H	Typ. FWHM	Typ. Eff.	Typ. cd/lm
ANGELA-S	Spot	119.5	74.27	25	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
ANGE-RZ	Color mixing sublens					

### ANGELINA ([www.ledil.com/angelina-family](http://www.ledil.com/angelina-family))

Compatibility:

- COBs with LES size up to 32 mm
- 3<sup>rd</sup> party connectors from Ideal, Bender+Wirth, TE and Molex

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
ANGE-RZ	Color mixing sublens					

### ANGELETTE ([www.ledil.com/angelette-family](http://www.ledil.com/angelette-family))

Compatibility:

- COBs with LES size up to 32 mm
- 3<sup>rd</sup> party connectors from Ideal, Bender+Wirth, TE and Molex

Name	Beam type	D	H	Typ. FWHM	Typ. Eff.	Typ. cd/lm
ANGELETTE-S	Spot	110	57.3	15	90	5.3
ANGELETTE-M2	Medium	110	57.3	35	TBA	TBA
ANGELETTE-M	Medium	110	57.3	50	89	1.2
ANGELETTE-WW	Extra wide	110	57.3	70	90	0.8
ANGELETTE-WAS	Asymm.	97.2 x 83.4	84	Asymm.	92	1.4

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
ANGE-RZ	Color mixing sublens					

### Base parts for ANGELA/ANGELINA/ANGELETTE

Name	
CLAMP-CXA15-18	For Cree CXA15 & 18
CLAMP-CXA25-30	For Cree CXA25 & 30
CLAMP-VERO13-18	For Bridgelux Vero13 & 18
CLAMP-VERO29	For Bridgelux Vero29
CLAMP-S2000	
CLAMP-S3000	For Lumileds LUXEON Sxxxx
CLAMP-S5000	



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

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



## HEKLA

**BARBARA-G2**  
Ø 70 mm

**MIRELLA-G2**  
Ø 50 mm

**BROOKE-G2**  
Ø 45 mm

**CARMEN**  
Ø 90 mm  
Ø 70 mm } incl. CARMEN-  
Ø 50 mm } HLD-C

**ZORYA**  
Ø 55 mm  
incl. ZORYA-ADAPTER-HEKLA

**RONDA**  
Ø 54 mm  
incl. RONDA-HLD-C

**WINNIE**  
Ø 50 mm  
incl. WINNIE-HLD-C



## HEKLA

Make your connections more versatile, robust and future proof with LEDiL's new Ø44 mm HEKLA sockets and solderless connectors

- **COMPATIBILITY:** One interface for a variety of LEDiL optics, supporting over 110 COBs
- **USABILITY:** Easy to use twist & lock mechanism for optics assembly and replacement
- **DURABILITY:** Long lasting materials that can handle high temperatures without losing grip
- **INNOVATION:** Same system – freedom to choose between solderless connector or mechanical socket

### HEKLA Connectors

Rated voltage: 50 V  
Rated current: 3 A

Certified according to following standards: EN 60838-1 :2004 + A 1 :2008 + A2:2011



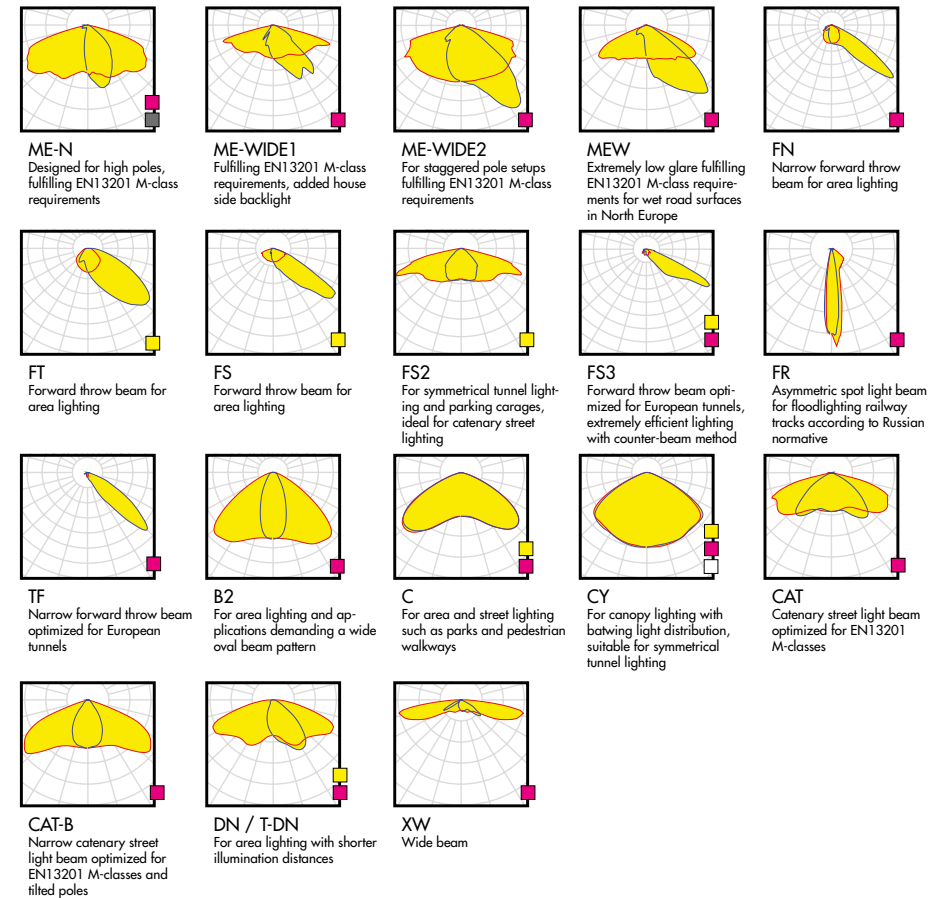
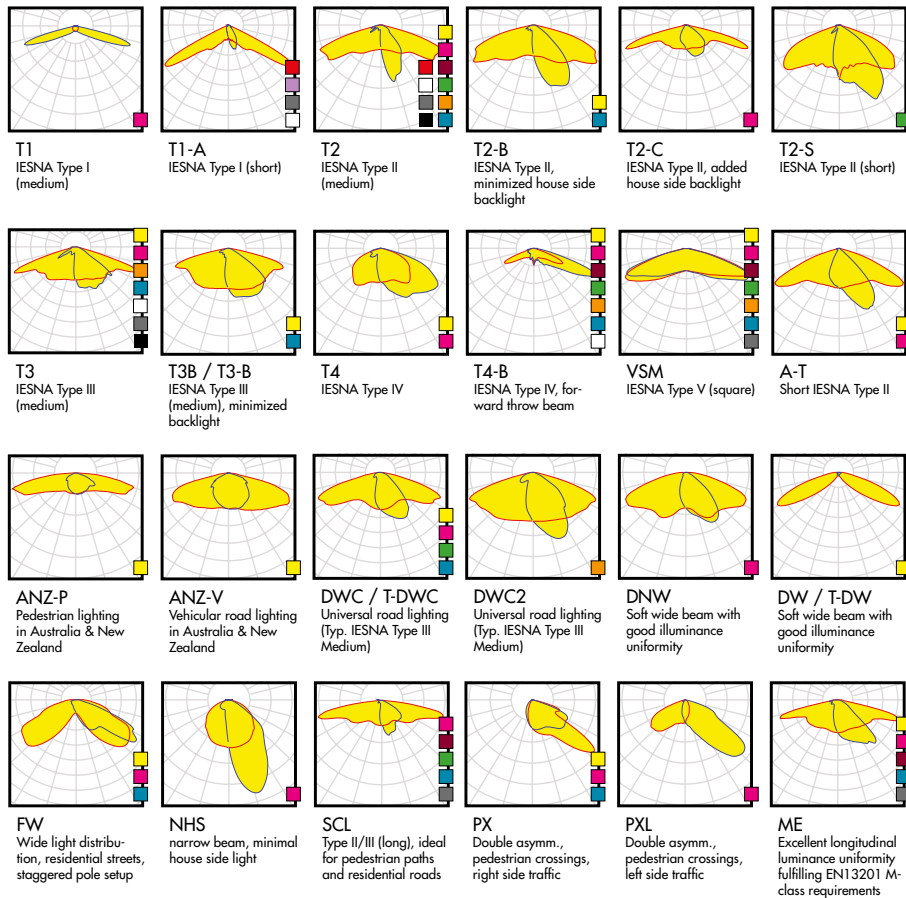
Name	LED Package
FP15490_HEKLA-A	12.5 x 12.5 mm
FP15500_HEKLA-B	17.85 x 17.85 mm
FP15501_HEKLA-C	13.5 x 13.5 mm
FP15502_HEKLA-D	15.85 x 15.85 mm
FP15503_HEKLA-E	15.8 x 15.8 mm
FP15947_HEKLA-G	15 x 12 mm
FP15948_HEKLA-H	19 x 16 mm
FP15949_HEKLA-I	19 x 19 mm
FP15957_HEKLA-J	13.35 x 13.35 mm

Check the LED compatibility at [www.ledil.com/hekla](http://www.ledil.com/hekla)

HEKLA Sockets	Max LES size	Example LED
F15253_HEKLA-SOCKET-A	9.0 mm	Bridgelux V8 (G6)
F15254_HEKLA-SOCKET-B	14.2 mm	Cree CXA1850
F15255_HEKLA-SOCKET-C	11.6 mm	Citizen CLL020
F15256_HEKLA-SOCKET-D	10.7 mm	Cree CXA1520
F14988_HEKLA-SOCKET-E	14.3 mm	Bridgelux V10(G6) and V13(G6)
F15616_HEKLA-SOCKET-F		Bridgelux VERO10
F15848_HEKLA-SOCKET-G	10 mm	Sharp Mini ZENIGATA
F15858_HEKLA-SOCKET-H	14.0 mm	Lumileds Luxeon CoB 1203
F15859_HEKLA-SOCKET-I	17.0 mm	Citizen CLL03x
F15956_HEKLA-SOCKET-J	7.5 mm	Cree CXA1310
C16142_HEKLA-SOCKET-K		Vero 13 and 18, Bender+Wirth Typ L8

## MODULAR SOLUTIONS

- STRADA-SQ
- SITARA
- STRADA-2X2MXS
- STRADA-2X2
- STRADA-IP-2X6
- STRADELLA
- STRADELLA-16
- STRADA-2X2CSP
- STRADA-2X2MX
- STRADELLA-8
- STRADELLA-IP-28



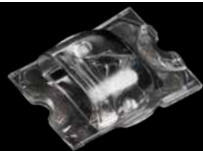


## STRADA single lenses

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

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

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

Compatibility:

- Up to 7070 size 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.

## STRADA-2X2 modules

[www.ledil.com/strada-2x2](http://www.ledil.com/strada-2x2)

Compatibility:

- Up to 5050 sized LED packages



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-T3 *	50 x 50	7	94	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-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.

\* Also available in silicone

## STRADA-2X2CSP

[www.ledil.com/strada-2x2](http://www.ledil.com/strada-2x2)

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	TBA	50 x 50	TBA	Asymm.
STRADA-2X2CSP-T4-B	6.84	50 x 50	94	Asymm.
STRADA-2X2CSP-ME	6.6	50 x 50	93	Asymm.

## SITARA modules

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

Compatibility:

- Optimized for 5050 size flat SMD LEDs



NEW!

Name	LEDs	H	D	Typ. Eff.
SITARA-2X2-T1-A	4	8.25	50 x 50	84
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

## STRADA-IP-2X6 modules

[www.ledil.com/strada-ip-2x6](http://www.ledil.com/strada-ip-2x6)

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-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-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.

## STRADA-2X2MX and silicone 2X2MXS modules

[www.ledil.com/2x2mx](http://www.ledil.com/2x2mx)

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.

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

[www.ledil.com/strada-6x1](http://www.ledil.com/strada-6x1)

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](http://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

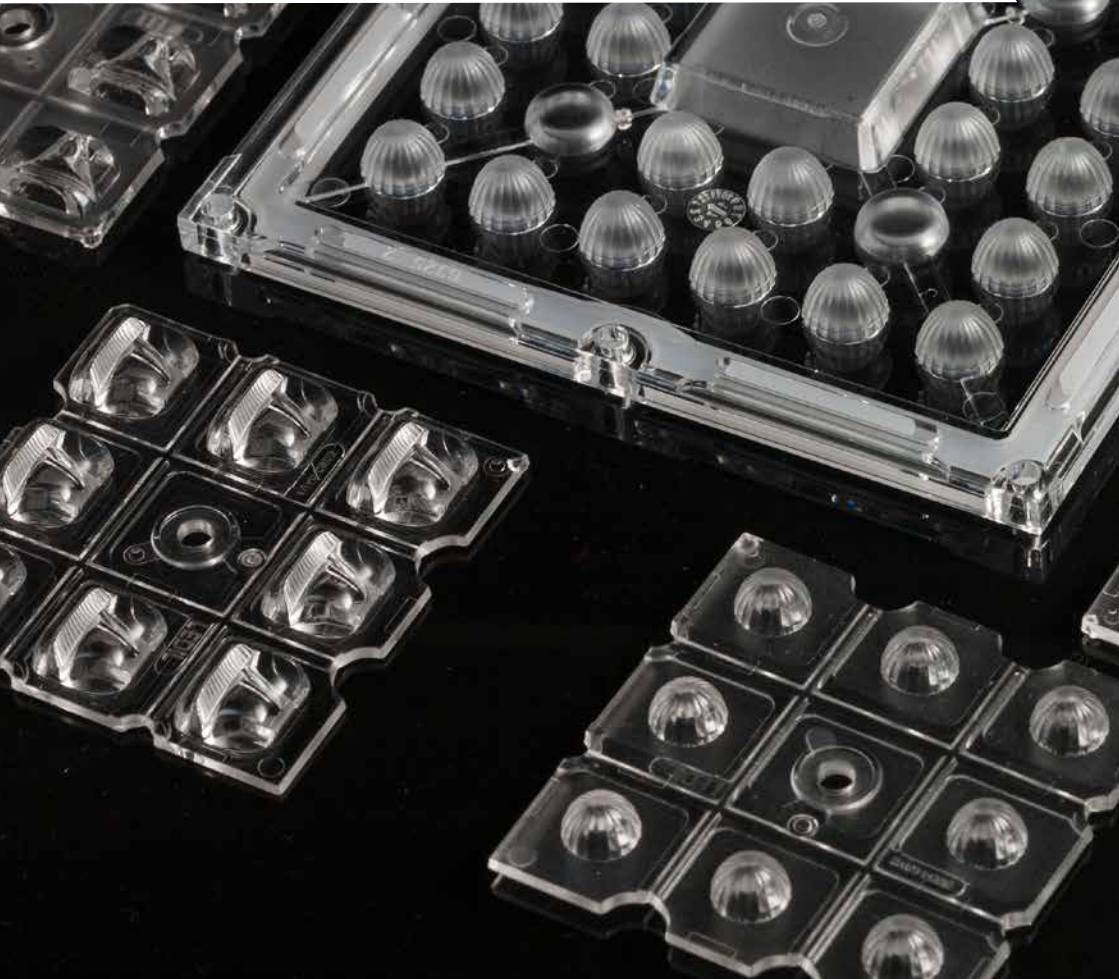


## STRADELLA-family

[www.ledil.com/stradellafamily](http://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-16: Up to 3535 size mid-power LEDs
- STRADELLA-IP-28: 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	0.32
STRADELLA-T2	Asymmetric	1	4.96	13.9 x 13.9	Asymm	94	0.77
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	0.56
STRADELLA-T1-A	Asymmetric	1	5.32	13.9 x 13.9	Asymm.	94	0.86
STRADELLA-HB-S	Spot	1	7.5	13.9 x 13.9	27	95	1.55
STRADELLA-HB-M	Medium	1	5.7	13.9 x 13.9	58	94	0.61
STRADELLA-HB-W	Wide	1	7.12	13.9 x 13.9	87	94	0.5

### STRADELLA-8

Name	Beam type	LEDs	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
STRADELLA-8-HV-ME	Asymmetric	8	5.5	49.5 x 49.5	Asymm.	94	0.7
STRADELLA-8-HV-ME-N							
STRADELLA-8-HV-CY	Wide area lighting	8	4.91	49.5 x 49.5	125 + 125	94	0.34
STRADELLA-8-T2*	Asymmetric	8	5.7	49.5 x 49.5	Asymm	94	0.75
STRADELLA-8-T3*	Asymmetric	8	5.7	49.5 x 49.5	Asymm	94	0.7
STRADELLA-8-VSM*	Wide area lighting	8	5.5	49.5 x 49.5	143	94	0.42
STRADELLA-8-SCL*	Asymmetric	8	5.5	49.5 x 49.5	Asymm	93	0.7
STRADELLA-8-T1-A*	Asymmetric	8	5.32	49.5 x 49.5	Asymm	94	1.0
STRADELLA-8-HB-S*	Spot	8	7.5	49.5 x 49.5	27	90	1.75
STRADELLA-8-HB-M*	Medium	8	5.7	49.5 x 49.5	58	92	0.70
STRADELLA-8-HB-W*	Wide	8	7.12	49.5 x 49.5	87	94	0.46

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

### STRADELLA-16

Name	Beam type	LEDs	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
STRADELLA-16-HB-S	Spot	16	7.5	49.5 x 49.5	27	93	1.7
STRADELLA-16-HB-M	Medium	16	5.7	49.5 x 49.5	61	93	0.68
STRADELLA-16-HB-W	Wide	16	7.12	49.5 x 49.5	92	94	0.49
STRADELLA-16-HB-O	<b>NEW!</b> Asymmetric	16	4.3	49.5 x 49.5	Asymm.	94	0.81
STRADELLA-16-T1-A	Asymmetric	16	4.3	49.5 x 49.5	Asymm.	94	0.81
STRADELLA-16-T1-A-PC	Asymmetric	16	4.3	49.5 x 49.5	Asymm.	94	0.81
STRADELLA-16-T3	<b>Coming soon</b> Asymmetric	16	3.7	49.5 x 49.5	Asymm.	TBA	TBA

### 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	TBA

### STRADELLA-IP-28

Name	Beam type	LEDs	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
STRADELLA-IP-28-T2	Asymmetric	28	9.2	100 x 100	Asymm.	94	0.84
STRADELLA-IP-28-T2-PC	Asymmetric	28	9.2	100 x 100	Asymm.	91	0.93
STRADELLA-IP-28-T3	Asymmetric	28	9.2	100 x 100	Asymm.	94	0.68
STRADELLA-IP-28-T3-PC	Asymmetric	28	9.2	100 x 100	Asymm.	91	0.66
STRADELLA-IP-28-HB-S	Spot	28	9.5	100 x 100	25	92	1.6
STRADELLA-IP-28-HB-S-PC	Spot	28	9.5	100 x 100	25	89	1.9
STRADELLA-IP-28-HB-M	Medium	28	9.5	100 x 100	65	94	0.7
STRADELLA-IP-28-HB-M-PC	Medium	28	9.5	100 x 100	65	89	0.7
STRADELLA-IP-28-HB-W	Wide	28	9.5	100 x 100	90	94	0.4
STRADELLA-IP-28-HB-W-PC	Wide	28	9.5	100 x 100	90	89	0.5





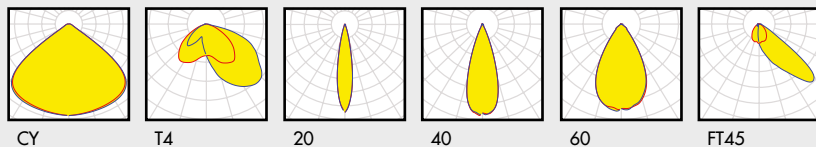
JENNY family

## JENNY ([www.ledil.com/jennyfamily](http://www.ledil.com/jennyfamily))

Comes either as a single lens or in a 8 lens array with possibility to separate lenses individually. Can be installed with glue or optional 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-8X1-CY	11.5	280 x 35	94	106 + 106
JENNY-T4	17	35 x 35	92	Asymm.
JENNY-8X1-T4	17	280 x 35	92	Asymm.
JENNY-20 *	Coming soon	35 x 35	96	20
JENNY-40 *	Coming soon	35 x 35	96	40
JENNY-60 *	Coming soon	35 x 35	94	60
JENNY-FT45 *	Coming soon	35 x 35	92	Asymm.
JENNY-CY-G2 *	Coming soon	TBA	TBA	TBA
JENNY-T4-G2 *	Coming soon	TBA	TBA	Asymm.
JENNY-HLD-A-BLK	5	34.8 x 50		



\* Available also in 8 lens array

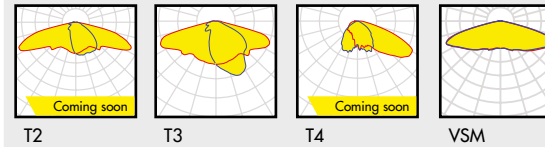
## STELLA-family ([www.ledil.com/stellafamily](http://www.ledil.com/stellafamily))

### 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	Coming soon	90	26.5	86	Asymm.
STELLA-G2-T3		90	40.2	91	Asymm.
STELLA-G2-T4	Coming soon	90	45.2	89	Asymm.
STELLA-G2-VSM		90	TBA	TBA	Asymm.



STELLA-G2-T3

### STELLA

Compatibility:

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

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	TBA	TBA	
STELLA-FRESNEL	23	90	89	27	
STELLA-DWC2	19.27	90	92	Asymm.	
STELLA-RS	NEW!	39.15	90	94	25
STELLA-CLAMP-CXA15-18					

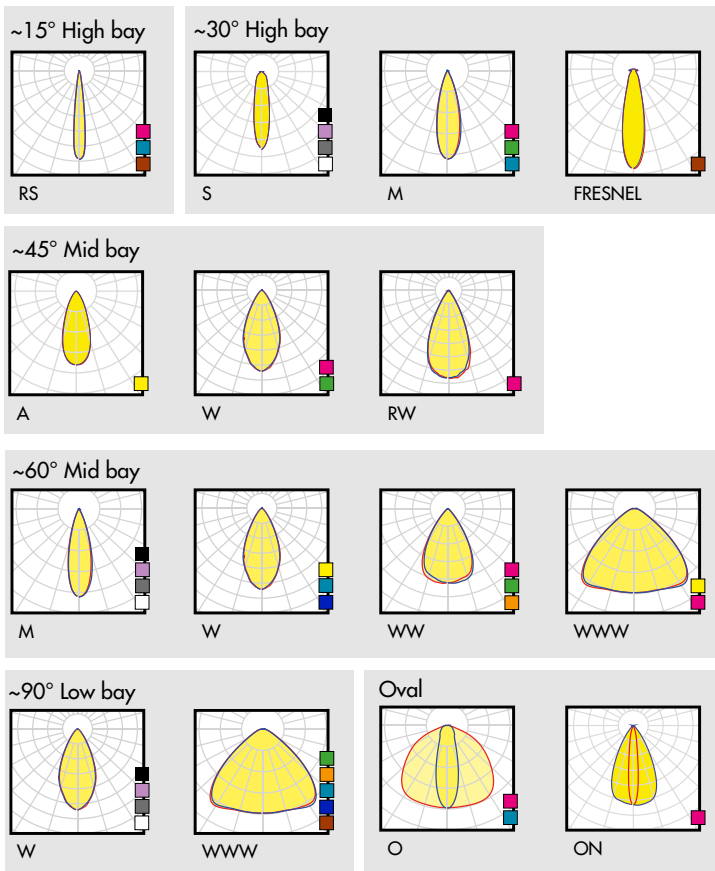


STELLA-RS

# HIGH BAY LIGHTING

## HIGH BAY SOLUTIONS

- HB-SQ
- HB-2X2
- HB-2X2MX-8
- HB-2X2MXS
- HB-IP-2X6
- HB-IP-2X6-G2
- STRADELLA-HB
- STRADELLA-8-HB
- STRADELLA-16-HB
- STRADELLA-IP-28-HB
- STELLA



# HIGH BAY LIGHTING

## HB family

[www.ledil.com/highbayfamily](http://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-2X2MX & silicone 2X2MXS modules

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

### HB-IP-2X6 modules

Dimensions: 173x71.4mm  
Compatibility:  
• Up to 5050 size LED packages

## NEW!

### 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



## STRADELLA family

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

### STRADELLA-HB

Dimensions: 13.9 x 13.9mm  
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

## STELLA family

[www.ledil.com/stellafamily](http://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  
• 3<sup>rd</sup> party connectors from BJB, Ideal, B+W, Stucchi and TE

# CUSTOM SOLUTIONS

In addition to our wide product portfolio of standard products we also offer custom tailored solutions. Our long expertise in optical design and close collaboration with our customers to meet their special needs is in some cases the only way to find the best solution for a project.

## 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?

Long experience and wide expertise in optical design  
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

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

# WHERE TO BUY

For detailed information visit  
[www.ledil.com/where\\_to\\_buy](http://www.ledil.com/where_to_buy)

USA & Canada	Sampsa Nurmi	sampsa.nurmi@ledil.com	+358 41 503 5316
North-East USA & East-Canada	Kevin Vaughn	kevin.vaughn@ledil.com	+1 412 7214308
Southeast & South Central USA	Paul Munce	paul.munce@ledil.com	+1 678 372 6053
Midwest USA	Lauri Haara	lauri.haara@ledil.com	+1 331 330 3215
West USA, Western Canada	Barry Williams	barry.williams@ledil.com	+1 310 994 4967
Central & South-America	Raúl Parra	raul.parra@ledil.com	+358 40 095 6839
Brazil	Bruno Musolino	bruno.musolino@ledil.com	+55 11 9 8264 6688
Brazil	Jen John Lee	jen.lee@ledil.com	+55 11 9 7378 8874
Customer Service Brazil	Fernanda Cruciani	fernanda.cruciani@ledil.com	+ 55 11 9 6645 8450
México	Rodrigo Menabrito	rodrigo.menabrito@ledil.com	+52 81 1609 2329
Inside Sales México	Ana Sofia Meza	ana.meza@ledil.com	+ 52 1 555 435 6721
Inside Sales, LATAM	Stina Åkerberg	stina.akerberg@ledil.com	+358 40 548 0886
Europe	Konstantinos Kyranas	konstantinos.kyranas@ledil.com	+49 17 1184 5154
Nordic, Baltic	Ville Saarinen	ville.saarinen@ledil.com	+358 40 732 8705
UK, Ireland, Benelux	Simon Aldred	simon.aldred@ledil.com	+44 7540 726 384
France	Glenn Bultinck	glenn.bultinck@ledil.com	+33 75 09 78 155
Spain, Portugal	Dave Simpson	dave.simpson@ledil.com	+34 607 858 901
Germany, Austria, Switzerland	Oliver Klasen	oliver.klasen@ledil.com	+49 151 20661985
Germany	Andreas Junker	andreas.junker@ledil.com	+49 151 7583 9123
Germany, Austria, Switzerland	Martin Lengwenus	martin.lengwenus@ledil.com	+49 1577 1916641
Poland, Czech Republic, Slovakia	Marcin Wiewiórka	marcin.wiewiorka@ledil.com	+48 501 765 576
Italy, Malta	Diego Quadrio	diego.quadrio@ledil.com	+39 340 659 9236
Balkans	Gregor Pokeržnik	gregor.pokerznik@ledil.com	+386 41 667 623
Russia, Ukraine, Belarus, Kazakhstan	Saken Jusupov	saken.jusupov@ledil.com	+7 911 758 95 54
Siberia, Ural regions of Russia	Alexander Burlakov	alexander.burlakov@ledil.com	+7 915 300 68 00
Turkey	Zekeriya Boz	zekeriya.boz@ledil.com	+90 546 291 2 444
Middle East, Africa	Jacob Aalto	jacob.aalto@ledil.com	+358 40 062 4446
Iran	Bahador Mozaffari	bahador.mozaffari@ledil.com	+98 912 593 9355
India	Rachesyam Nandigam	syam.nandigam@ledil.com	+91 9676 333 162
India	Vijay Kumar	india@ledil.com	+91 80084 13434
India	Mohammad Bilal	mohammad.bilal@ledil.com	+91 93219 32158
China, Mongolia, Hong Kong, Taiwan	Angela Wang	angela.wang@ledil.com	+86 137 1454 2727
South-Korea	Howard Lee	howard@coresemi.com	+82 10 3799 7351
Japan	Kazuaki Kimura	kazuaki.kimura@ledil.com	+81 90 3212 4135
Thailand, Malaysia, Singapore, Vietnam, Indonesia, Philippines	Suppaluck Sae-Sean	suppaluck.sae-sean@ledil.com	+66 869 741 968
Australia, New Zealand	Pasi Kontto	pasi.kontto@ledil.com	+358 40 776 2149
Asia, Middle East, Africa	Joni Mäki	joni.maki@ledil.com	+358 404 139 990
Inside Sales, Global	Nonna Raita	nonna.raita@ledil.com	+358 40 833 2707





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

LEDiL Oy  
Joensuunkatu 13  
FI-24100 SALO  
Finland

LEDiL Inc.  
228 West Page  
Street Suite D  
Sycamore IL 60178  
USA

Local sales and technical support  
See page 53 or visit  
[www.ledil.com/where\\_to\\_buy](http://www.ledil.com/where_to_buy)

Shipping locations  
Salo, Finland  
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