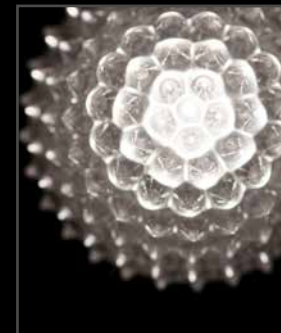


LEDiL®

RANGE & PRECISION
LEDiL's optics offer both



LIGHT THAT IS RIGHT

LEDiL is the leading optics provider 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 wide standard product portfolio 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

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

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SINGLE LENSES

SINGLE LENSES

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

LISA-family (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

NEW!

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	Extra ² wide	7	9.9	62	89	0.9
-O	Oval	7	9.9	16 x 48	84	2.8

VERONICA-family (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 x 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	56x12	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	15x50	84	3.8



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-family (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	Oval	≈ 10	16.1	35 x 16	87	3.5
TINA2-O-WAS	Asymm. oval	≈ 10	16.1	Asymm.	86	3.6

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



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-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

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	21.6 x 21.6	20	92	TBA
G2-NIS033U-M	Medium	12.9	21.6 x 21.6	25	91	TBA
G2-NIS033U-W	Wide	12.9	21.6 x 21.6	43	91	TBA
G2-ROSE-UV-SS	Smooth spot	12.9	21.6 x 21.6	14	90	TBA
G2-ROSE-UV-M	Medium	12.9	21.6 x 21.6	25	88	TBA
G2-ROSE-UV-W	Wide	12.9	21.6 x 21.6	40	90	TBA

SINGLE LENSES

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-SS-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
-MD	14.6	21.6	24	90	TBA
-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

*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

IRIE

NEW!

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)

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

SINGLE LENSES

NEW!



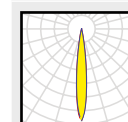
ILONA (www.ledil.com/products)

NEW!

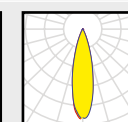
Compatibility:

- Optimized for 6-9 mm and compatible with up to 14.5 mm LES size COBs
- LEDiL HEKLA baseparts (page 39)

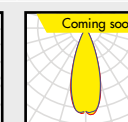
Name	D	H	Typ. FWHM	Typ. eff.	Typ.cd/lm
ILONA-RS	50	29.15	10	94	15.0
ILONA-M	50	29.66	25	92	4.2
ILONA-W	50	29.70	36	89	2.5



ILONA-RS



ILONA-M

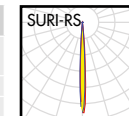


ILONA-W

SURI (www.ledil.com/products)

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

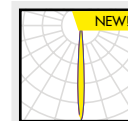
Name	D	H	Typ. FWHM	Typ. eff.	Typ.cd/lm
SURI-RS	38	24	6	91	65



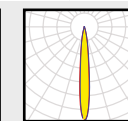
OLGA (www.ledil.com/products)

Compatibility: Up to 7070 size LED packages

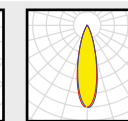
Name	D	H	Typ. FWHM	Typ. eff.	Typ.cd/lm
OLGA-RS	30 / 32	18.5 / 19.1	9	92	25.0
OLGA-S	30 / 32	18.5 / 19.1	11	87	13.6
OLGA-M	30 / 32	18.5 / 19.1	25	85	2.8
OLGA-W	30 / 32	18.5 / 19.1	40	89	2.2
OLGA-WAS	30 / 32	18.5 / 19.1	Asymm.	81	1.1
OLGA-O	30 / 32	18.5 / 19.1	10 + 40	90	5.0



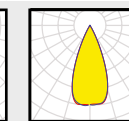
OLGA-RS



OLGA-S



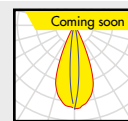
OLGA-M



OLGA-W



OLGA-WAS



OLGA-O

SINGLE LENSES



TITANUM/SPUTNIK (www.ledil.com/products)

Compatibility: Up to 3535 size LED packages

Name	Beam type	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
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)

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-WWW	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)

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)

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
LOTTA-A2	Wide area lighting	3.6	20 x 15	90 x 170	87	0.2

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/products)

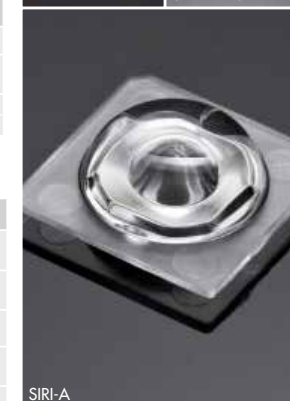
Compatibility: Up to 3535 size LED packages

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 (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



SINGLE LENSES

LEIA (www.ledil.com/products)

NEW!

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
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-family (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)

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)

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/products)

Compatibility: Up to 7070 size LED packages

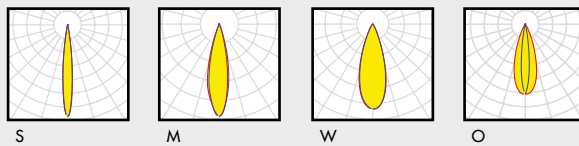
Name	Beam type	H	D	Typ. FWHM	Typ. Eff.
SEANNA-A	Real Spot	79	152.6	2.3	87

RGBW MIXING



GABRIELLA-family (www.ledil.com/gabriella)

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

GERI (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)

Compatibility: Up to 5050 size RGB LEDs

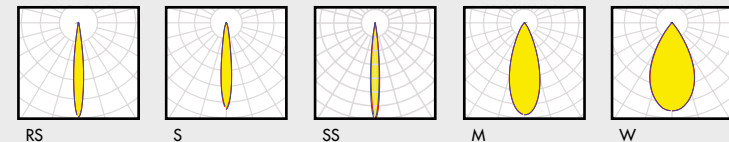
Name	D	H	Typ. FWHM	Typ. eff.	Typ.cd/lm
RGBX-SS	28	30	20	85	3.8
RGBX-M	28	30	30	70	1.3
RGBX-O	28	30	48 + 25	70	1.4
RGBX2-S	28	30	20	77	4.6
RGBX2-M	28	30	34	68	1.5
RGBX2-O	28	30	48 + 24	66	1.5



CARMEN-family (www.ledil.com/carmen)

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): 3rd party baseparts compatible with B-interface (page 38)
- Holder C: LEDiL HEKLA baseparts (page 39)



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-50-RS-WHT	Real spot	25.5	50	12
CARMEN-50-S-WHT	Spot	25.5	50	26
CARMEN-50-M-WHT	Medium	25.5	50	37
CARMEN-50-W-WHT	Wide	25.5	50	54

CARMEN-70

Name	Beam type	H	D	Typ. FWHM
CARMEN-RS	Real spot	36.3	69.9	10
CARMEN-SS	Smooth Spot	36.3	69.9	13
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-RS-WHT	Real spot	36.3	69.9	11
CARMEN-SS-WHT	Smooth Spot	36.3	69.9	10
CARMEN-S-WHT	Spot	36.3	69.9	10
CARMEN-M-WHT	Medium	36.3	69.9	37
CARMEN-W-WHT	Wide	36.3	69.9	52

CARMEN-90

Name	Beam type	H	D	Typ. FWHM
CARMEN-90-RS	Real spot	39.3	90	10



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TUNABLE
WHITE

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NEW!

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.

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

SINGLE LENSES



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 38)
- Holder B: 3rd party baseparts compatible with B-interface (page 38)
- Holder C: LEDiL HEKLA baseparts (page 39)



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	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	Extra ² 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



SINGLE LENSES



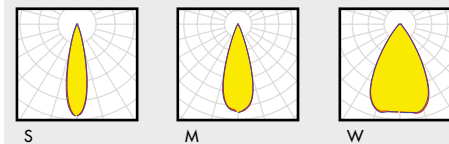
MOLLY

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 38)
- B-versions: 3rd party baseparts compatible with B-interface (page 38)

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



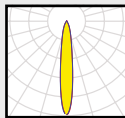
WINNIE (www.ledil.com/winniefamily)

Compatibility:

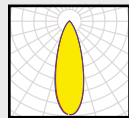
- COBs with LES sizes up to 21 mm
- WINNIE-HOLDER: 3rd party baseparts compatible with B-interface (page 38)
- Holder-C: LEDiL HEKLA baseparts (page 39)



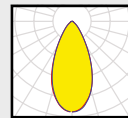
Name	Beam type	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
WINNIE-S	Spot	19.3	49.8	22	88	3.4
WINNIE-M	Medium flood	19.3	49.8	35	86	1.8
WINNIE-W	Wide flood	19.3	49.8	50	88	1.3
WINNIE-WW	Extra wide flood	19.3	49.8	70	83	0.7
WINNIE-O	Oval	19.3	49.8	63 + 24	89	1.5



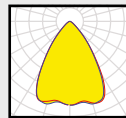
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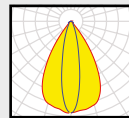
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W



WW



O

OLIVIA (www.ledil.com/olivia)

Compatibility:

- LES sizes up to 19 mm
- 3rd 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

SINGLE LENSES



SAGA (www.ledil.com/sagafamily)

Compatibility:

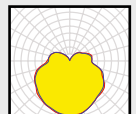
- COB's with LES sizes up to 14 mm
- 3rd party connectors from Bender+Wirth

Name	Beam type	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
SAGA-HB-IP-WHT	High Bay	12	50	62	90	0.8
SAGA-S-WHT	Spot	13.7	50	29	93	2.7

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

Compatibility:

- ZORYA-SC: LES sizes from 6 mm to 24 mm
- ADAPTER-B: 3rd party baseparts with B-interface (page 38)
- ADAPTER-C: LEDiL HEKLA baseparts (page 39)
- ZORYA-MINI: For high power LEDs up to 7070 size packages



ZORYA-SC

ZORYA

Name		Height	Diameter	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		Height	Diameter	Typ. eff.	Typ. FWHM
ZORYA-MINI	PC lens	14.6	22	98	145

MULTI-LENS ARRAYS

MULTI-LENS ARRAYS

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

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

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

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-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



SATU-O



CUTE



GT3-M

GT4



ANGIE-S

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-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

QUAK (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)

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	M	7	40	10.7	22	88	3.7
ANNA-40-3-M		3					
ANNA-40-4-M		4					
ANNA-40-5-M		5					
ANNA-40-6-M	W	6	40	10.7	32	86	1.9
ANNA-40-7-M		7					
ANNA-40-7-M2		7					
ANNA-40-3-W		3					
ANNA-40-4-W	WW	4	40	12.5	64	90	0.9
ANNA-40-5-W		5					
ANNA-40-6-W		6					
ANNA-40-7-W		7					
ANNA-40-7-WW		6					

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



NIS83-MX-7-M



NIS83-MX-4-M



ANNA-50-5-S

MULTI-LENS ARRAYS



MELODY (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)

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)

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

MULTI-LENS ARRAYS

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

PETUNIA (www.ledil.com/petuniafamily)

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
PETUNIA2	NEW! 12	7.4	29.5 x 46.5	29	93	2.5

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

LUCIA (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

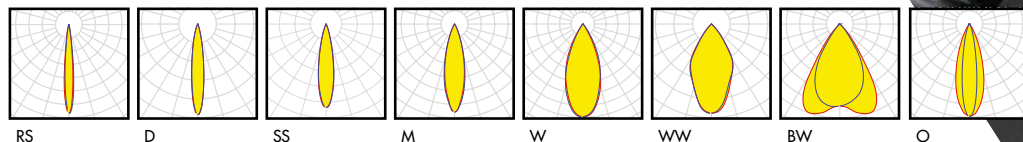


FLORENTINA-family

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-12X1 (www.ledil.com/florentina)

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 (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	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

Additional accessories

FLORENTINA-1-SHD-60 Black shade for FLORENTINA-1 assemblies

FLORENTINA-2X2 (www.ledil.com/florentina-2x2)

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

Additional accessories

FLORENTINA-2X2-SHD-OPEN Open shade design for FLORENTINA-2X2 assemblies and custom faceplates

FLORENTINA-2X2-SHD-WHT White shade for FLORENTINA-2X2 assemblies

FLORENTINA-2X2-SHD Black shade for FLORENTINA-2X2 assemblies

FLORENTINA-4X1 (www.ledil.com/florentina-4x1)

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

Additional accessories

FLORENTINA-4X1-SHD-OPEN Open shade design for FLORENTINA-4X1 assemblies and custom faceplates

FLORENTINA-4X1-SHD-WHT White shade for FLORENTINA-4X1 assemblies

FLORENTINA-4X1-SHD Black shade for FLORENTINA-4X1 assemblies

LINEAR LENSES

FLORENCE-family (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-ZT25	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-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

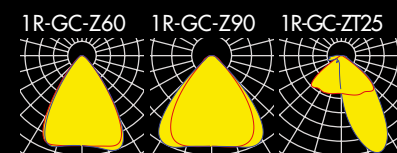
LINEAR LENSES

FLORENCE-family

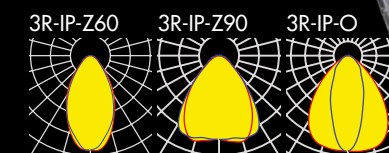
FLORENCE-1R



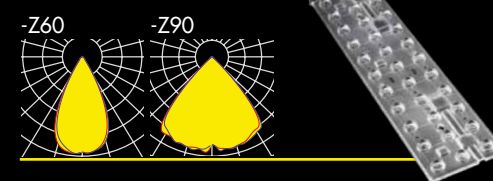
FLORENCE-1R-GC



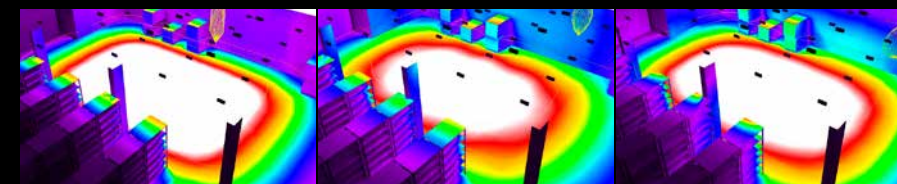
FLORENCE-3R-IP



FLORENCE2



FLORENCE (3R)



(3R) Z30 ~7 meters

(3R) Z60 ~5 meters

(3R) Z90 ~3.5 meters

LINEAR LENSES

CLAUDIA

NEW!

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

DAHLIA (www.ledil.com/dahlia-article)

NEW!

Compatibility: Typical horticultural 3535 HP LEDs

Name	H	D	Typ. FWHM	Typ. Eff.
DAHLIA-TL110	11	321 x 79	120	94

DAISY (www.ledil.com/daisy-article)

NEW!

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

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-28X1-W-WHT	20.2	1140 x 40	56	94
DAISY-28X1-WW-WHT	20.2	1140 x 40	77	94

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-4X1-W-WHT	20.2	182 x 40	56	94
DAISY-4X1-WW-WHT	20.2	182 x 40	77	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	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)

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

NEW!



CLAUDIA

NEW!



DAHLIA-TL110

NEW!



DAISY



VANESSA-B-O



SHELLY-T-6X1-WAS

LINEAR LENSES

LILIAN (www.ledil.com/products)

NEW!

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

LINNEA-family (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-ZT25 *	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

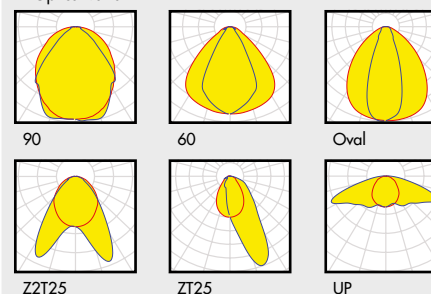
LINNEA-XX**-END-ML Long end cap (male) - Clips for 1.0 mm thick metal sheet assembly with LINNEA

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

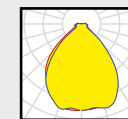
* B-version available
** Optical variant



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!

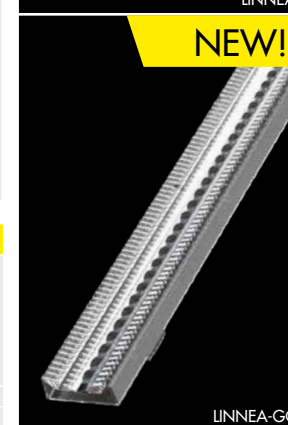


LILIAN



LINNEA

NEW!



LINNEA-GC

REFLECTORS

REFLECTORS

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	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 ² 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-PIN	Extra ² wide	TBA	TBA	TBA

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

BRIDGET (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)

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)

Compatibility: Up to 5050 size LED packages

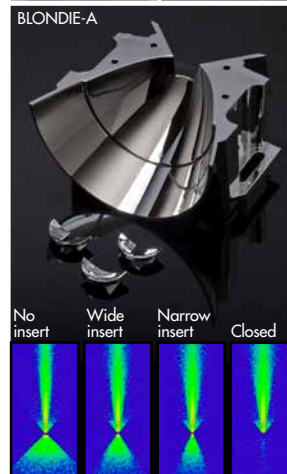
Name	Beam type	H	D	Typ. eff.	Typ. cd/lm
RITA-A	Asymm.	17	36 x 28.4	87	0.6
RITA-WAS	Asymm.	17	31.9x28.4	85	0.63
RITA-A-RZ	Asymm.	19	35 x 29	82	0.6
RITA-WAS-RZ	Asymm.	19	35 x 29	80	0.6

BLONDIE (www.ledil.com/blondie)

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 lock 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)

Compatible with LEDiL HEKLA baseparts (page 39)

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 39 or www.ledil.com)

TESTED FOR
TUNABLE
WHITE

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



MIRELLA-family

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

MIRELLA-G2

Compatible with LEDiL HEKLA baseparts (page 39)
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 39 or www.ledil.com)	

TESTED FOR

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



MIRELLA-G2

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 38)

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-PF

BARBARA-family

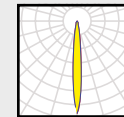
Ø70 mm LEDiL System Reflectors compatible with various accessories, sockets and solderless connectors.

BARBARA-G2

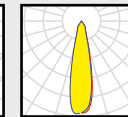
Compatible with LEDiL HEKLA baseparts (page 39)
Compatibility: COBs with LES size up to 18 mm



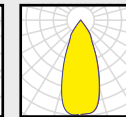
Name	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
BARBARA-G2-S	41.9	70	13	TBA	TBA
BARBARA-G2-M	41.9	70	25	TBA	TBA
BARBARA-G2-W	41.9	70	40	TBA	TBA
BARBARA-G2-WW	41.9	70	60	TBA	TBA



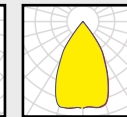
G2-S



G2-M



G2-W



G2-WW

Additional accessories

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

TESTED FOR

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



BARBARA-G2

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 38)

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-PF

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 38)

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)

Compatibility:

- COBs with LES size up to 35 mm
- 3rd party connectors from Ideal, Stucchi and Bender+Wirth
- LENA/LENINA baseparts (page 38)

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



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 38)
- 3rd party baseparts compatible with B-interface (page 38)

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

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 38)
- 3rd party baseparts compatible with B-interface (page 38)

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)

Compatibility:

- COBs with LES size up to 32 mm
- LEDil baseparts with A-interface (page 38)
- 3rd party baseparts compatible with B-interface (page 38)

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	Asymm.	97.2 x 83.4	84	Asymm.	92	1.4

ANGE-RZ Color mixing sublens

ANGELITE-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





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

B-INTERFACE (3RD PARTY)

BJB 47319

A.A.G. STUCCHI: 8000 G2

Tridonic SLE

LENA/LENINA INTERFACE (3RD PARTY)

IDEAL: Chip-Lok + 50-2100LN

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)

HEKLA

BARBARA-G2 Ø 70 mm

MIRELLA-G2 Ø 50 mm

BROOKE-G2 Ø 45 mm

CARMEN-C Ø 90 mm
Ø 70 mm
Ø 50 mm

ZORYA-SC-C Ø 55 mm

RONDA-C Ø 54 mm

WINNIE-C Ø 50 mm

ILONA Ø 50 mm



HEKLA

Make your connections more versatile, robust and future proof with LEDiL's 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 Sockets & Connectors

Rated voltage: 50 V

Rated current: 3 A

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

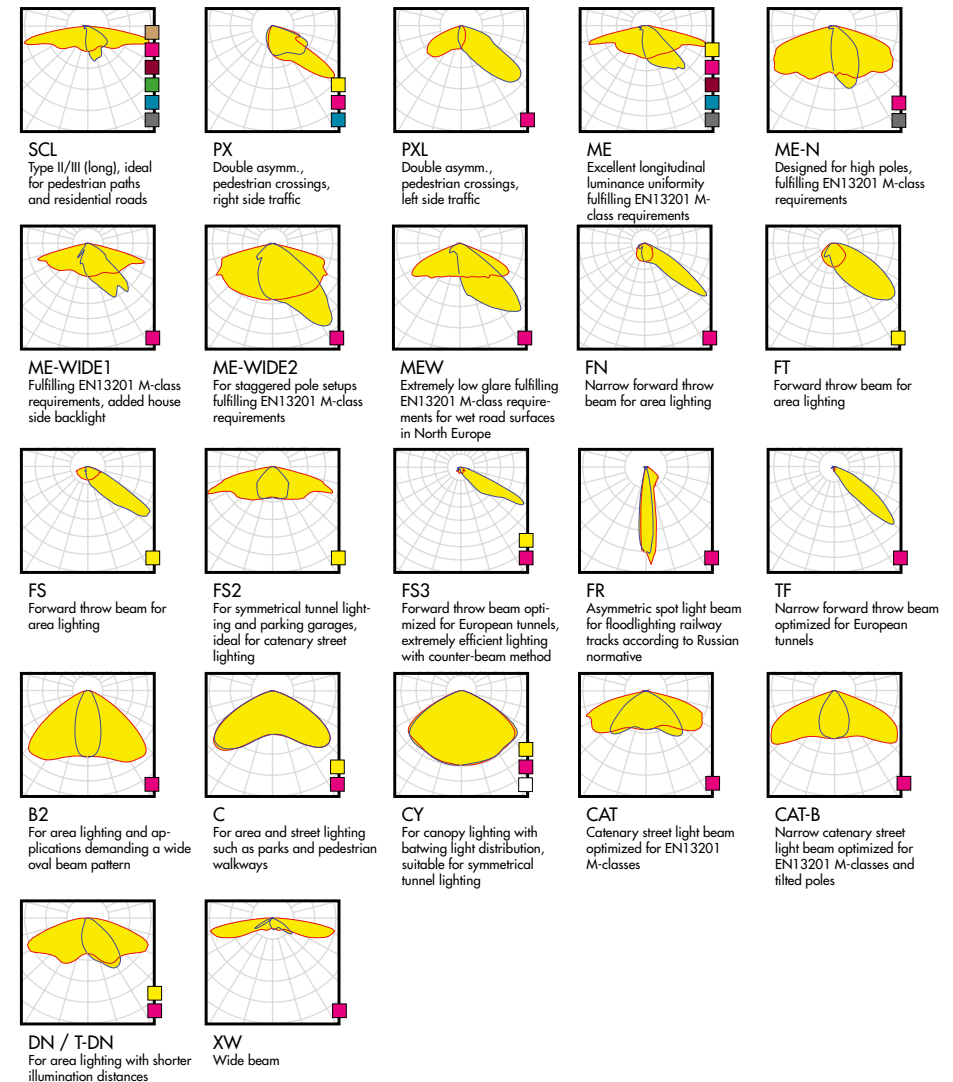
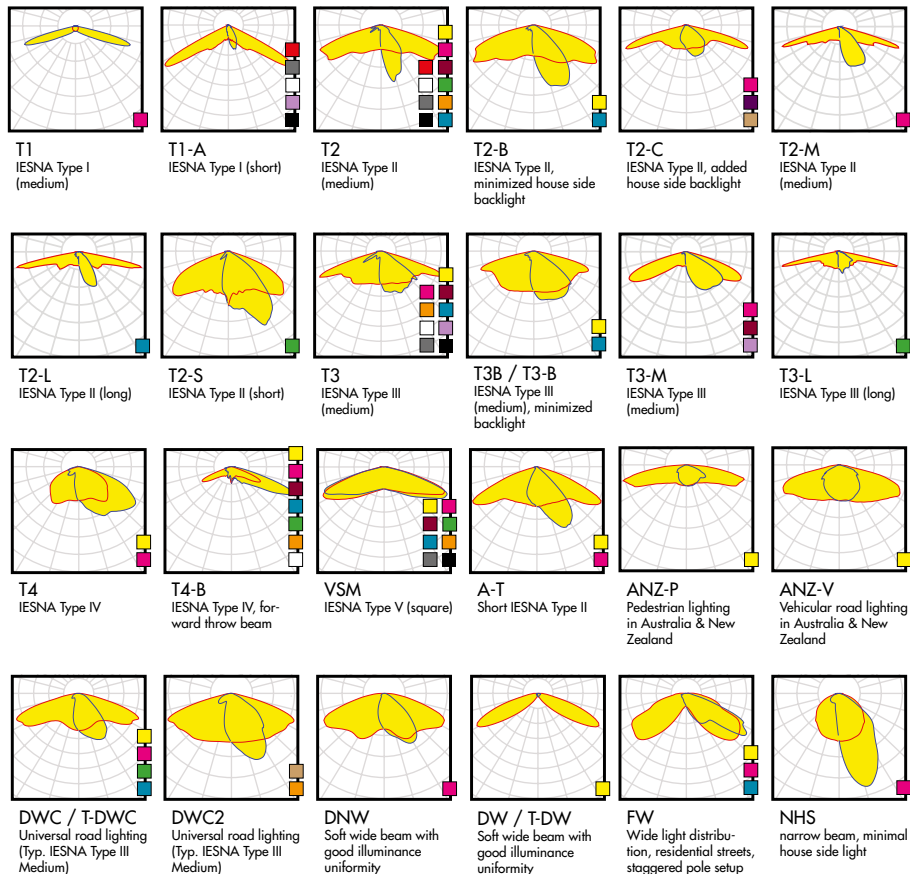


Name	LED Package	Example LED
HEKLA-A	12.5 x 12.5 mm	Bridgelux V8 (G6)
HEKLA-B	17.85 x 17.85 mm	Cree CXA1850
HEKLA-C	13.5 x 13.5 mm	Citizen CLU02x
HEKLA-D	15.85 x 15.85 mm	Cree CXA1520
HEKLA-E	15.8 x 15.8 mm	Bridgelux V10(G6) and V13(G6)
HEKLA-SOCKET-F		Bridgelux VERO10
HEKLA-G	15 x 12 mm	Zhaga
HEKLA-H	19 x 16 mm	Zhaga
HEKLA-I	19 x 19 mm	Zhaga
HEKLA-J	13.35 x 13.35 mm	Cree CXA1310
HEKLA-SOCKET-K		Bender+Wirth Typ L8, Vero 13 and 18
XTM-ADAPTER-50-B & -C		Xicato XTM & XIM modules

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

MODULAR SOLUTIONS

■ STRADA-SQ ■ STRADA-2X2-5050 ■ STRADA-2X2MX ■ STRADELLA
■ STRADA-2X2 ■ SITARA ■ STRADA-2X2MXS ■ STRADELLA-8
■ STRADA-2X2CSP ■ STRADA-IP-2X6 ■ STRADA-IP-8MX ■ STRADELLA-16 STRADELLA-IP-28



STRADA single lenses

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

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

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-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.

* Available in silicone

** Available also in PC

STRADA-2X2CSP

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	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.

STRADA-2X2-5050

Compatibility:

- Flat 5050 size LED packages

Name	Height	Dimensions	Typ. eff.	Typ. FWHM
STRADA-2X2-5050-T2-C	7	50 x 50	85	Asymm.

STREET & AREA LIGHTING

SITARA modules

www.ledil.com/products

Compatibility:

- Optimized for 5050 size flat SMD LEDs



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
SITARA-HB-S	1	5.0	18 x 18	TBA
SITARA-HB-M	1	5.7	18 x 18	94

STRADA-IP-2X6 modules

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-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

STREET & AREA LIGHTING

STRADA-IP-8MX modules

www.ledil.com/

Compatibility:

- Optimized for flat 5050 packages (without dome)



Name	Dimensions	Height	Typ. Eff.
STRADA-IP-8MX-T2-C *	90 x 90	9.6	85
STRADA-IP-8MX-SCL	90 x 90	TBA	TBA
STRADA-IP-8MX-DWC2	90 x 90	10.14	TBA

* Available also in PC

STRADA-2X2MX and silicone 2X2MXS modules

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

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



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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STRADELLA-family

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 & IP-16: Up to 3535 size mid-power LEDs
- STRADELLA-IP-28: Up to 3535 size mid and high power LEDs



STREET & AREA LIGHTING

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

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

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-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-T1-A-PC	Asymmetric	16	4.3	50 x 50	Asymm.	94	0.8
STRADELLA-16-T2	NEW! 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-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

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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STREET & AREA LIGHTING



JENNY family

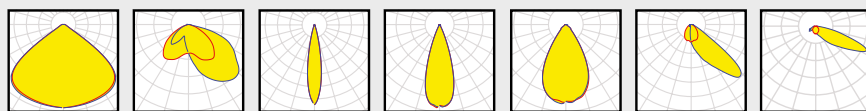
JENNY (www.ledil.com/jennyfamily)

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-T4 *	17	35 x 35	92	Asymm.
JENNY-CY-G2 *	TBA	TBA	TBA	TBA
JENNY-T4-G2 *	TBA	TBA	TBA	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.



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

* Available also in 8 lens array

STREET & AREA LIGHTING

STELLA-family (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 T3 T4 VSM



STELLA-G2-T3

STELLA

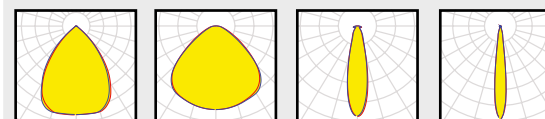
Compatibility:

- 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

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 VSM



HB HB-WWW FRESNEL RS

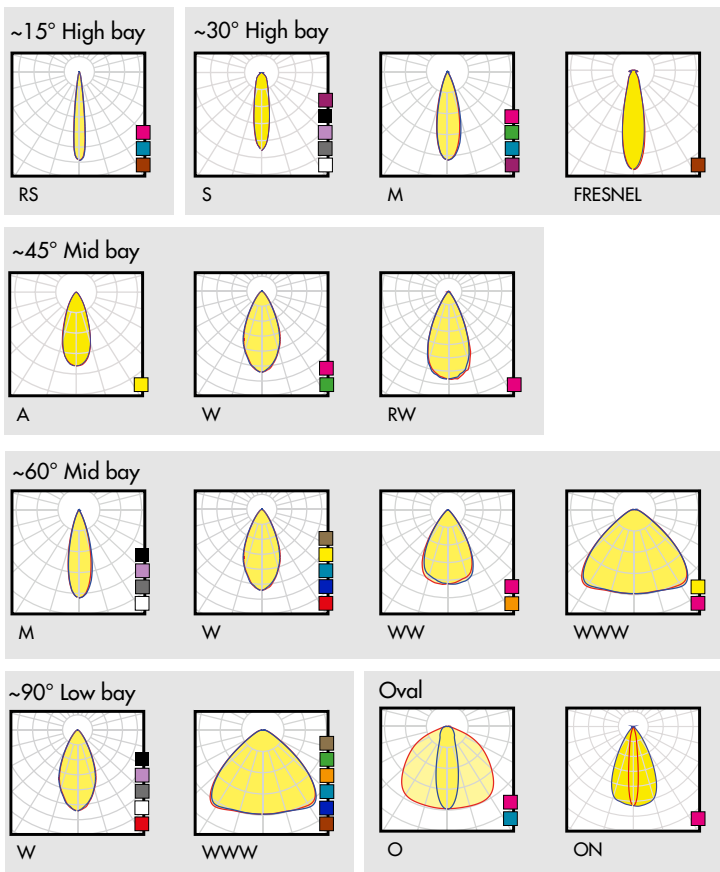
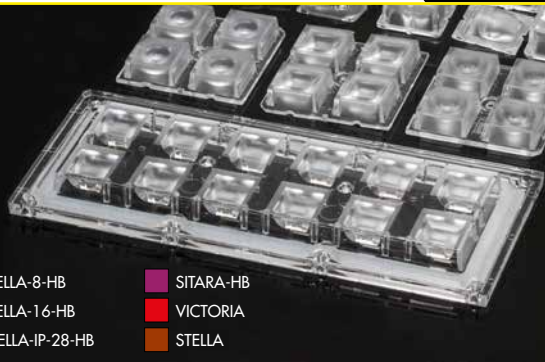


STELLA-RS

HIGH BAY LIGHTING

HIGH BAY SOLUTIONS

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



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-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



NEW!

HB-IP-8MX modules

Dimensions: 90 x 90 mm

Compatibility:

- Optimized for flat 5050 packages (without dome)



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

STELLA family

www.ledil.com/stellafamily

STELLA

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+V, Stucchi and TE

VICTORIA NEW!

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



SITARA-HB family NEW!

SITARA-HB

Dimensions: 18 x 18 mm

Compatibility:

- Optimized for flat high-power 5050 size LED packages



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.

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- Looking for a unique design solution and differentiation
- Meeting special requirements for certain applications
- Need for specific material

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Full turnkey service

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- Thermal analysis service from the beginning of a project
- Technical support during the whole lifetime of a product
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USA & Canada	Sampsa Nummi	sampsa.nummi@ledil.com	+358 41 503 5316
North-East USA & East-Canada	Kevin Vaughn	kevin.vaughn@ledil.com	+1 412 721 4308
Southeast & South Central USA	Paul Munce	paul.munce@ledil.com	+1 678 372 6053
Midwest USA	Lauri Haarala	lauri.haarala@ledil.com	+1 331 330 3215
Central & South-America	Raul 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 1 8125672957
Central México	Francisco Sanchez	francisco.sanchez@ledil.com	+52 1 833 287 0227
Inside Sales México	Ana Sofia Meza	ana.meza@ledil.com	+52 1 555 435 6721
Argentina, Chile, Paraguay, Uruguay, Peru	Pablo Bianchi	pablo.bianchi@ledil.com	+54 9 11 5485 6967
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	Linus Fuchs	linus.fuchs@ledil.com	+358 0 176 4406
UK, Ireland, Benelux	Simon Aldred	simon.alred@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
Key Account Manager, DACH	Michael Berger	michael.berger@ledil.com	+49 170 524 3688
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	Radheshyam 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
India	Sushil Sharma	sushil.sharma@ledil.com	+91 98113 50502
China, Mongolia, Hong Kong, Taiwan	Theodore Feng	yaojun.feng@ledil.com	+86 13509612732
China	Frank Lee	frank.lee@ledil.com	+86 159 1335 3326
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, Australia, New Zealand	Suppaluck Sae-Sean	suppaluck.sae-sean@ledil.com	+66 869 741 968
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

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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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/contacts

Shipping locations
Salo, Finland
Hong Kong, China

Distribution Partners
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