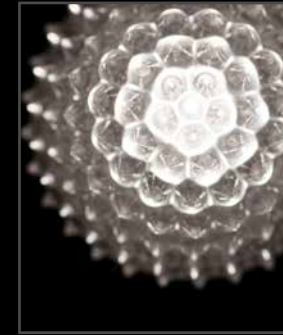


LEDiL



RANGE & PRECISION
LEDiL's optics offer both

ABOUT US

With Finnish design expertise and global production, we are the leading optics supplier to the world's premier lighting manufacturers. Our wide range of optical solutions combine innovative designs and excellent performance making us the first choice for demanding applications. Close connections with all the leading LED manufacturers allow us to release products alongside the newest LEDs; and our customers to enjoy rapid development and deployment of new fixtures with the latest technology. A selection of over 4000 standard and unlimited custom solutions combined with our "can do, will do" attitude ensure you find the product you need for your application. With a global network of distributors and free of charge technical support to all our customers we provide the most competitive solutions available today. For more information, please visit www.ledil.com

Useful information

You can find product-ordering codes 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 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

Name	Beam type	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
LARISA-M	Medium	7.5	9.9 x 9.9	32	86	2,2
LARISA-O	Oval	7.5	9.9 x 9.9	40 x 22	81	2,1
LARISA-RS	Real spot	7.5	9.9 x 9.9	19	80	3,7
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-RZ	Diffused spot	7.5	9.9 x 9.9	27	77	1,9
LARISA-RS-PIN	Real spot	7.5	9.9 x 9.9	32	86	2,2
LARISA-M-PIN	Medium	7.5	9.9 x 9.9	40 x 22	81	2,1
LARISA-O-PIN	Oval	7.5	9.9 x 9.9	19	80	3,7
LARISA-W-PIN	Wide	7.5	9.9 x 9.9	48	85	1,2
LARISA-WW-PIN	Extra wide	7.5	9.9 x 9.9	57	84	0,9
LARISA-RZ-PIN	Diffused spot	7.5	9.9 x 9.9	27	77	1,9



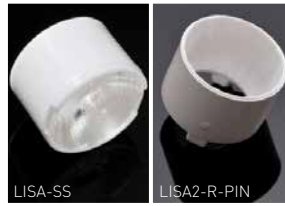
LARISA

LISA-family (www.ledil.com/lisa)

Compatibility: Up to 3535 size LED packages

LISA

Name	Beam type	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
LISA-SS	Smooth spot	7.1	10.8	22	86	3.8
LISA-RS	Real spot	7.1	10.8	15	90	3.9



LISA-SS

LISA2-R-PIN

LISA2

Name	Beam type	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
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-O-90-PIN	O-90	≈ 6,8	9,9	48+18	83	2,2
LISA2-RS	RS	≈ 6,8	9,9	19	89	3,1
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



TWIDDLE-D

TWIDDLE (www.ledil.com/twiddle)

Compatibility: Up to 3535 size LED packages

Name	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
TWIDDLE-D	14.3	21.6	20	81	TBA
TWIDDLE-M	13.2	21.6	32	72	TBA
TWIDDLE-RZ-D	14.57	21.56	18	60	4,1
TWIDDLE-RZ-M	13.34	21.56	20	68	4,1

VERONICA (www.ledil.com/veronica-family)

TIR lens for installations with potting resin.

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

Name	Beam type	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
VERONICA-O	Oval	12.2	26	54 + 11	84	4,2
VERONICA-RS	Real spot	12.2	26	12	90	18,4
VERONICA-SQ-O	Oval	12.2	22.5x22.5	56+12	82	3,2
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-MINI-RS	Real spot	8,86	13.9x13.9	17	92	11
VERONICA-SQ-MINI-O	Oval	8,86	13.9x13.9	15+50	84	3,8
VERONICA-SQ-MINI-M	Medium	8,86	13.9x13.9	34	89	TBA
VERONICA-SQ-MINI-W	Wide	8,86	13.9x13.9	56	91	0,9
VERONICA-SQ-MINI-D	Diffused spot	8,86	13.9x13.9	15	92	TBA



VERONICA

VERONICA-SQ

VERONICA-SQ-MINI



TINA-WW

TINA2-R-CLIP16

TINA3-S

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-D	Diffused spot	≈ 10	16,1	16	92	6,1
TINA-M	Medium	≈ 10	16,1	29	88	2,1
TINA-O	Oval	≈ 10	16,1	34 x 15	89	3,4
TINA-RS	Real spot	≈ 10	16,1	13	93	10,9
TINA-W	Wide	≈ 10	16,1	48	91	1,3
TINA-WW	Extra wide	≈ 10	16,1	61	91	0,8

TINA2

Name	Beam type	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
TINA2-D	Diffused spot	≈ 10	16,1	16	89	6,9
TINA2-M	Medium	≈ 10	16,1	29	86	2,5
TINA2-O	Oval	≈ 10	16,1	35 x 16	87	3,5
TINA2-O-WAS	Asymm. oval	≈ 10	16,1	TBA	TBA	TBA
TINA2-RS	Real spot	≈ 10	16,1	14	91	10,4
TINA2-W	Wide	≈ 10	16,1	46	87	1,37
TINA2-WW	Extra wide	≈ 10	16,1	58	87	0,9
TINA2-R	Wide	10,1	16,1	74	90	0,5

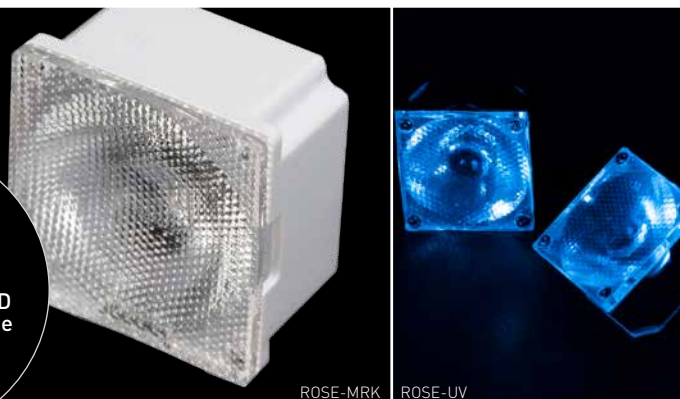
TINA3

Name	Beam type	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
TINA3-00	00	≈ 7	≈ 16,1	59 x 39	90	1,20
TINA3-S	S	11,4	16,1	13	77	8,40
TINA3-W	W	≈ 7	16,1	39	90	1,70
TINA3-WW	WW	≈ 7	16,1	53	90	1,00
TINA3-WWW	WWW	≈ 7	16,1	71	88	0,60

SINGLE LENSES

SINGLE LENSES

ROSE product family has been updated with ROSE-MRK PC lenses for bigger LED packages and silicone ROSE-UV lenses.



ROSE (www.ledil.com/rose)

COMPATIBILITY: LED packages up to 5050 size

Name	Beam type	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
ROSE-D	D	21.6x21.6	16	85	7,1
ROSE-M	M	21.6x21.6	30	83	2,5
ROSE-MD	MD	21.6x21.6	24	TBA	TBA
ROSE-O	O	21.6x21.6	43 x 15	81	3,1
ROSE-O-90	O-90	21.6x21.6	13 x 44	81	3,6
ROSE-RS	RS	21.6x21.6	11	88	21,7
ROSE-SS	SS	21.6x21.6	15	87	9,37
ROSE-W	W	21.6x21.6	51	81	1,1
ROSE-WW	WW	21.6x21.6	59	81	0,78
ROSE-WWW	WWW	21.6x21.6	80	84	0,4

ROSE-MRK (www.ledil.com/rose-mrk)

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

Name	Beam type	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
ROSE-MRK-S	Spot	21.6x21.6	30	80	TBA
ROSE-MRK-M	Medium	21.6x21.6	43	84	TBA
ROSE-MRK-W	Wide	21.6x21.6	62	84	TBA

ROSE-UV (www.ledil.com/rose)

COMPATIBILITY: LEDs with dome up to 3535 size packages

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)

Next generation of classic LAURA family featuring new thinner holder design. Backwards compatible with previous generations and offering the same beam specifications and exceptional quality of light at even more affordable price.

COMPATIBILITY: Up to 5050 size LED packages

Name	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
G2-LAURA-D-P	13.1	21.6x21.6	13	93	9,3
G2-LAURA-M-P	13.1	21.6x21.6	30	92	2,6
G2-LAURA-O-P	13.1	21.6x21.6	40 x 13	91	4,8
G2-LAURA-RS-P	13.1	21.6x21.6	8	93	33,2
G2-LAURA-SS-P	13.1	21.6x21.6	11	93	16,5
G2-LAURA-W-P	13.1	21.6x21.6	46	91	1,55
G2-LAURA-WW-P	13.1	21.6x21.6	66	86	0,7
G2-LAURA-R-XW-P	13.1	21.6x21.6	72	86	0,6
G2-LAURA-R-W-P	13.1	21.6x21.6	70	81	0,8
G2-LAURA-SS-WAS-P	13.1	21.6x21.6	Asym.	92	11,6
G2-LAURA-O-WAS-P	13.1	21.6x21.6	Asym.	84	2,6
G2-LAURA-O90-P	13.1	21.6x21.6	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-D	13	21.6x21.6	15	88	6,2
LAURA-M	13	21.6x21.6	29	88	2,5
LAURA-O	13	21.6x21.6	40 x 12	88	4,3
LAURA-RS	13	21.6x21.6	8	93	30,5
LAURA-SS	13	21.6x21.6	11	91	14,5
LAURA-W	13	21.6x21.6	42	88	1,7
LAURA-WW	13	21.6x21.6	66	86	0,70
LAURA-XW	13	21.6x21.6	72	85	0,6
LAURA-R-W	13	21.6x21.6	70	77	0,52

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

New thinner holder design. Backwards compatible with previous generations.

COMPATIBILITY: Up to 5050 size LED packages

Code	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 code*	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
-MD	14.6	21.6	24	90	TBA
-O	14.6	21.6	39 x 11	88	4,8
-O-90	14.6	21.6	11 x 39	89	4,6
-REC	14.6	21.6	37 x 26	84	2,4
-RS	14.6	21.6	9,6	94	23,1
-RS2	14.6	21.6	8,5	90	22,1
-SS	14.6	21.6	12	TBA	TBA
-W	14.6	21.6	42	90	1,6
-WW	14.6	21.6	42	TBA	TBA
-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

SINGLE LENSES

BILLIE (www.ledil.com/billie)

A wall-washing optic with rectangular beam and excellent uniformity. This uniquely innovative product is designed especially for indoor and outdoor architectural and billboard lighting. BILLIE is the perfect solution for small concealed fixtures.

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



BILLIE

IRENE (www.ledil.com/irene)

Square beam-pattern designed to comply with CCT camera view angles

COMPATIBILITY: Up to 3535 size IR LEDs

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°



IRENE-IR-16

IRIS (www.ledil.com/iris)

COMPATIBILITY: Up to 7070 size LEDs

Code	H	D	Typ. FWHM	Typ. eff.	Typ. cd/lm
IRIS-M	≈29	38	26	86	2,7
IRIS-O	≈29	38	39 x 28	84	1,9
IRIS-RS	≈29	38	5	93	66



IRIS-O

MIRA-M

MIRA (www.ledil.com/mira)

Available with or without holder

COMPATIBILITY: Up to 7070 size high power LEDs and small COBs up to 12mm LES

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-D	Diffused spot	16,4	37,7	16	80	4,92
EVA-M	Medium	16,4	37,7	24	89	3,2
EVA-O	Oval	16,4	37,7	38 x 17	85	3,06
EVA-S	Spot	16,4	37,7	13	93	6,3
EVA-W	Wide	16,4	37,7	38	83	1,4
EVA-WW	Extra wide	16,4	37,7	53	82	1,7
C10685_EVA-M	Medium	16,4	37,7	26	89	2,8



EVA



SPUTNIK-M



EMILY-WWW



HEIDI-WR

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

COMPATIBILITY: Up to 3535 size LEDs

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

EMILY (www.ledil.com/emily)

COMPATIBILITY: Up to 5050 size LED packages

Name	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
EMILY-SS-WAS	14,8	26	8	90	12
EMILY-O-WAS	14,8	26	43 x 10	87	3,6
EMILY-D	14,8	26	11	91	14
EMILY-M	14,8	26	18	91	7,4
EMILY-M2	14,8	26	29	89,2	3,05
EMILY-O	14,8	26	44 x 10	89	4,5
EMILY-O-90	14,8	26	45 x 10	89	4,2
EMILY-SS	14,8	26	11	80	13,4
EMILY-W	14,8	26	39	86	1,5
EMILY-WWW	14,8	26	58	86	1
EMILY-RS	14,8	26	8	90	29,5

HEIDI (www.ledil.com/heidi)

COMPATIBILITY: Up to 3535 size LED packages

Name	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
HEIDI-D	21,6	10	90	14,8
HEIDI-M	21,6	26	89	3,8
HEIDI-O	21,6	49 x 11	87	4,5
HEIDI-O-90	21,6	13 x 44	87	4,7
HEIDI-RS	21,6	8	92	21,8
HEIDI-SS	21,6	15	90	6,8
HEIDI-W	21,6	32	87	2,6
HEIDI-W2	21,6	45	80	1,1
HEIDI-WR	21,6	31	87	4,1
HEIDI-REC	21,6	35 + 57	76	1,37
HEIDI-REC-90	21,6	36 + 57	78	1,3

KIKI (www.ledil.com/kiki)

Designed for backlighting applications. Carefully optimized for maximally uniform light distribution even with wider LED distances.

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	21,6x14	163	92	0.28



KIKI-A JULIA-A

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	0.24



LOTTA-A

LOTTA (www.ledil.com/lotta)

LOTTA is designed especially for a wide-area and backlighting applications. This lens shares the mechanical design of LEDiL's classic single STRADA family. Designed to provide good uniformity over wide areas optimized for Lumileds' Luxeon LEDs.

COMPATIBILITY: Up to 3535 size LED packages

Code	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)

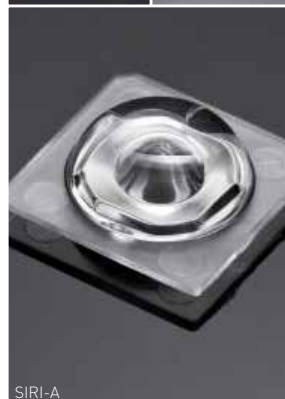
COMPATIBILITY: Up to 3535 size LED packages

Code	Beam type	H	D	Typ. FWHM	Typ. eff.	Typ. cd/lm
EMMA-360	Side emitter	5,7	9,9x9,9	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	19,6x15,5	144+170	93	0.36
STRADA-S-14	Side emitter	6,5	19,6x13,8	142+170	94	0.36



SIRI-A

SIRI (www.ledil.com/siri)

A series of specialty optics for wide area lighting applications.

COMPATIBILITY: Up to 3535 size LED packages

Code	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	0.24
SIRI-DIFF		4,9	13,9x13,9	144	95	0.22

HELENA (www.ledil.com/helena)

Diamond turning is the method of choice when producing some of the very highest class optics in the world. We have used it to make HELENA, fresnel type lens having surface accuracy of a hundredth of a millimetre. This means better light control and efficiency – lighting the LEDiL way.

COMPATIBILITY: All LED types

Name	Beam type	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
HELENA-A	Medium	11	72,8	19	68	4.0
HELENA-B	Medium	11	72,8	24	74	2.1

EMERALD (www.ledil.com/emerald)

Cost effective one-LED, one-optic solution for exit route lighting. With EMERALD's extremely wide beam distribution it's possible to achieve EN 1838 compliant lighting for installation height to distance ratios up to and beyond 1:7. Extended illumination range and single LED design reduces costs of the fixture and installation significantly.

COMPATIBILITY

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

Name	Beam type	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
EMERALD-A	Rectangular	7,3	21,6	150x20	89	1.9
EMERALD-MAXI-A	Wide area lighting	12,2	33x25	Asymm.	92	2.0

VENLA-IRIS (www.ledil.com/venta)

VENLA-S-IRIS complements LEDiL's VENLA optics family by featuring one of the tightest spot beams available for Lumileds' Luxeon S.

COMPATIBILITY: Up to 7070 size LED packages

Code	Beam type	H	D	Typ. FWHM	Typ. eff.	Typ. cd/lm
VENLA-S-IRIS	Spot	27,2	45	16	90	8.0



HELENA-A



EMERALD-MAXI-A



VENLA-S-IRIS



FLARE-MAXI-T

CRYSTAL-RS

SEANNA-A

FLARE (www.ledil.com/flarefamily)

COMPATIBILITY:

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

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
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
FLARE-MINI-A	8.6	16	106 x 20	94	1,1
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-PIN	8.6	16	106 x 20	94	1
LEDIL-FLARE	16.2	23 x 25	138 x 20	92	1,3

CRYSTAL (www.ledil.com/crystal)

LEDiL's CRYSTAL and CRYSTAL-MINE lenses offer unsurpassed light quality for a variety of lighting applications. A narrow beam combined with over 90% efficiency means more light for tough tasks in demanding environments. According to mining head lamp specifications CRYSTAL-MINE has 10% added illumination over the cut-off area. In comparison CRYSTAL is designed to have a tight uniform beam and a maximum candela peak.

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)

SEANNA's patent pending design has two optical elements. A primary TIR lens ensures that all light will hit the secondary Fresnel resulting in maximum performance and efficiency. Peak value at 25 m up to 800 cd/lm and spot as narrow as 1-3° depending on LED.

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

RGB MIXING

GABRIELLA (www.ledil.com/gabriella)

- ø45mm color mixing lens with a very narrow beam
- Easy & reliable assembly with excellent positioning accuracy
- Medium and wide beam versions to follow

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

Name	D	H	Typ. FWHM	Typ. eff.	Typ.cd/lm
GABRIELLA-45-S	45	29	9	90	TBA

GERI (www.ledil.com/geri-rz)

45 mm TIR lens providing very good color mixing quality with a narrow beam characteristics and a good candela center peak

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

Name	D	H	Typ. FWHM	Typ. eff.	Typ.cd/lm
GERI-RZ	45x45	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-M	28	30	30	70	TBA
RGBX-O	28	30	48+25	70	TBA
RGBX-SS	28	30	20	85	3,8
RGBX2-M	28	30	34	68	1,5
RGBX2-O	28	30	48+24	66	1,5
RGBX2-S	28	30	20	77	4,6



GABRIELLA-45-S

GERI-RZ

RGBX-M

SINGLE LENSES

SINGLE LENSES



RONDA (www.ledil.com/ronda)

- 70mm diameter and low profile design with easy integration in luminaires
- Patent pending multi refraction optical technology allows excellent optical performance
- Various beam options makes RONDA an ideal and modern choice for wide range of downlight solutions
- Wide customization possibilities with front panel, assembly depth and light pattern

COMPATIBILITY

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

Name	Beam type	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
RONDA-WAS	Asymm.	22,3	69,9	Asymm.	86	TBA
RONDA-S	Spot	14,6	69,9	27	85	TBA
RONDA-W	Wide	14,6	69,9	43	87	TBA
RONDA-WW	Extra wide	16,9	69,9	62	89	TBA
RONDA-WWW	Extra ² wide	14,6	69,9	90	87	TBA
RONDA-ZT45	Double asymmetric	34,3	69,9	Asymm.	85	0.46
RONDA-REC-60	Rectangular	14,6	69,9	58+58	89	TBA
RONDA-REC-90	Rectangular	14,6	69,9	80	87	0.53

CARMEN (www.ledil.com/carmen)

- Built from a transparent lens material instead of metallized coating, CARMEN can take advantage of all the light emitted by the light source.
- Hybrid design of of reflector and lens also works as a cover to protect the LED both physically and visually.
- LEDiL´s patented RZ-technology provides a smooth light pattern without any color-over-angle problems.
- Assembly comes with a black holder.

COMPATIBILITY

- LES sizes up to 11mm
- **Holder B:** 3rd party connectors from BJB and Stucchi
- **Holder C:** LEDiL HEKLA

Name	Beam type	H	D	Typ. FWHM
CARMEN-S	Spot	36,3	69,9	14
CARMEN-M	Medium	36,3	69,9	34
CARMEN-W	Wide	36,3	69,9	55

SINGLE LENSES



WINNIE (www.ledil.com/winniefamily)

- Hyper-reflective white PC holder and optical grade PMMA for high efficiency.
- Features unique flat folded TIR design and Zhaga Book 3 compatible fastening.

COMPATIBILITY

- COB's with LES sizes up to 21mm
- 3rd party connectors from Bender+Wirth

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-O	Oval	19,3	49,8	63+24	89	1,5

OLIVIA (www.ledil.com/olivia)

- Really flat lens achieved with unique folded TIR design
- Zhaga Book 3 compliant lens design
- Efficient dual-element design with low point glare
- Countersunk assembly possible

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)

- TIR lens in optical grade silicone
- Precision-molded frame in Hyper-Reflective White PC
- Zhaga compliant fastening with two M3 screws 35mm apart
- Average optical efficiency of 92%

COMPATIBILITY

- COB's with LES sizes up to 14mm
- 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	0,75
SAGA-S-WHT	Spot	13,7	50	29	93	TBA

ZORYA (www.ledil.com/zorya)

- Omnidirectional lens meeting Energy Star requirements
- High temperature resistance due to silicone technology
- Twist and lock holder system allows the lens to be used with solderless connectors
- Available also as 22mm PC lens

COMPATIBILITY

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

Code	Height	Dimensions	Typ. eff.	Typ. FWHM
ZORYA-SC-50	35	55	97	245
ZORYA-MINI	14,6	22	98	145
ZORYA-SC-ADAPTER-HEKLA	HEKLA adapter			

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

The information contained herein is the property of LEDiL Oy, Salorankatu 10, FI-24240 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.

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-M	Medium	3	8,9	21,8	27	91	2,9
SATU-O	Oval	3	8,9	21,8	42 x 22	86	2,5
SATU-S	Spot	3	8,9	21,8	19	90	4,9
SATU-W	Wide	3	8,9	21,8	33	86	1,9



SATU-O

CUTE (www.ledil.com/cute)

COMPATIBILITY: Up to 5050 size packages

Name	Beam type	LEDs	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
CUTE-3-M	M	3	15	35	24	88	3,8
CUTE-3-S	S	3	15	35	11	TBA	TBA
CUTE-3-SS	SS	3	15	35	12	90	11,3
CUTE-3-W	W	3	15	35	39	83	1,6
CUTE-3-WW	WW	3	15	35	58	93	TBA
CUTE-4-M	M	4	15	35	22	84	4,26
CUTE-4-SS	SS	4	15	35	11	88	13,2
CUTE-4-W	W	4	15	35	38	TBA	TBA



CUTE

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-M	M	3	9	35	30	89	2,2
GT3-S	S	3	9	35	18	90	4,5
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)

COMPATIBILITY: Up to 3535 size LED packages

Name	Beam type	LEDs	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
GT4-M	M	4	9	35	28	88	2,5
GT4-S	S	4	9	35	21	90	3,3
GT4-W	W	4	9	35	38	89	1,7
GT4-WW	WW	4	9	35	53	90	1,1



GT4-W

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

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-MD	MD	7	10,6	38	33	85
RER-7-S	S	7	10,6	38	19	89
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)

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)

One of LEDiL's largest lens array family and most popular product families. ANNA family is versatile with optics in two diameters, wide selection of beam angles and sources.

COMPATIBILITY: Up to 3535 size LED packages

Name	Beam type	LED sources	D	H	Typ. FWHM	Typ. Eff.	Typ. cd/lm	
ANNA-40-3-M	M	3	10,7	22	88	3,7		
ANNA-40-4-M		4						
ANNA-40-5-M		5						
ANNA-40-6-M		6						
ANNA-40-7-M		7						
ANNA-50-3-M		3					50	
ANNA-50-4-M		4						
ANNA-50-5-M	5							
ANNA-50-6-M	6							
ANNA-50-7-M	7							
ANNA-40-7-M2	M	7	40	10,7	25	87		3,2
ANNA-40-3-S	S	3	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						
ANNA-50-3-S		3					50	
ANNA-50-4-S		4						
ANNA-50-5-S	5							
ANNA-50-6-S	6							
ANNA-50-7-S	7							
ANNA-40-7-S-PC	S	7	40	10,7	15	85		TBA
ANNA-40-3-W	W	3	10,7	32	86	1,9		
ANNA-40-4-W		4						
ANNA-40-5-W		5						
ANNA-40-6-W		6						
ANNA-40-7-W		7						
ANNA-50-3-W		3					50	
ANNA-50-4-W		4						
ANNA-50-5-W	5							
ANNA-50-6-W	6							
ANNA-50-7-W	7							
ANNA-40-7-WW	WW	6	40	12,5	64	90		0,9



NIS83-MX-4-M



ANNA-50-5-S



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-M	M	4	11,9	50,6	29	89	2,8
MELODY-3-M	M	3	11,9	50,6	34	92	2,1
MELODY-4-S	S	4	11,9	50,6	12	89	14,8

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-M	M	3	14,5	50	16	84	5,6
TUIJA-3-M2	M	3	14,5	50	35	87	2
TUIJA-3-SS	SS	3	14,5	50	12	90	12,9
TUIJA-3-W	W	3	14,5	50	53	86	0,9

MARTHA (www.ledil.com/martha)

COMPATIBILITY: Up to 3535 size LED packages

Name	Beam type	LEDs	H	D	Typ. FWHM
APOLLO-LAIKA-3-W	W	3	17	50	49
NIS83-MX-3-W	W	3	15	50	48
PLATINUMROCKET-3-W	w	3	16	50	43
PLATINUMROCKET-3-SS	SS	3	16	50	14
PLATINUMROCKET-3-M	M	3	16	50	20
NIS83-MX-3-M	M	3	16	50	22

SANDRA (www.ledil.com/sandra)

SANDRA product family has the largest optical array diameter we provide. It suits in many applications like for example in retrofits, retail lighting and track mounted lighting fixtures.

COMPATIBILITY: Up to 3535 size LED packages

Name	Beam type	LEDs	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
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-S	Spot	12	11,1	67	14	91	13,2
SANDRA-12-O	Oval	12	11,1	67	42+19	90	2,8

VIRPI (www.ledil.com/virpifamily)

COMPATIBILITY: Up to 3535 size LED packages

Name	Beam type	LEDs	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
VIRPI-S	Spot	25	9,4	74,9x74,9	15	94	7,5
VIRPI-M	Medium	25	9,4	74,9x74,9	29	92	2,7
VIRPI-W	Wide	25	9,4	74,9x74,9	42	91	1,6

PETUNIA (www.ledil.com/petunifamily)

- A special lens for deep red, deep blue and white OSRAM OSLOON LEDs
- Smooth mixing of colours at a short distance resulting in a uniform growing light for plants
- PCB available with the right spread of colours
- Control algorithm for switching on / off white and coloured LEDs

COMPATIBILITY: Up to 3535 size LED packages

Name	LEDs	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
PETUNIA	12	7,4	29,5x46,5	29	91	2,2

IDA (www.ledil.com/idafamily)

- 50 x 50 x 6.3 mm 16-up lens array
- A lens and optional clip-on frame for 1.6 mm PCB
- Modular system: optics held in place with installation frame
- Possibility to use only lens (glue needed)

COMPATIBILITY: Mid-power LEDs up to 3535 sizes

Name	Beam type	LEDs	H	D	Typ. FWHM	Typ. Eff.
IDA16-M	Narrow	16	9,2	50x50	40	92
IDA16-WW	Very wide	16	9,2	50x50	71	93
IDA16-O	Oval	16	9,2	50x50	90+33	92

LUCIA (www.ledil.com/lucia)

- Very narrow flood with a good cut-off
- Unique tilted TIR design for maximum light control

COMPATIBILITY: Up to 7070 size LED packages

Code	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

LEDiL's FLORENTINA product family is the most versatile package for indoor lighting when it comes to different fastening and customization possibilities

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)

Code	Beam type	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
FLORENTINA-RS	Real spot	25.1	29x 287	11	84	16.74
FLORENTINA-SS	Smooth spot	25.1	29x 287	21	85	5.88
FLORENTINA-M	Medium	25.1	29x 287	29	81	3.28
FLORENTINA-O	Oval	25.1	29x 287	35+12	83	5.05
FLORENTINA-D	Diffused spot	25.1	29x 287	13	84	9.62
FLORENTINA-W	Wide	25.1	29x 287	42	84	1.75

FLORENTINA-1 (www.ledil.com/florentina-1)

Code	Beam type	H	D	Typ. FWHM	Typ. eff.	Typ. cd/lm
FLORENTINA-1-SS-60	Smooth spot	31.9	39,7x39,7	18	83	7
FLORENTINA-1-RS-60	Real spot	31,9	39,7x39,7	16	80	9.3
FLORENTINA-1-D-60	Diffused spot	31,9	39,7x39,7	21	77	5.1
FLORENTINA-1-M-60	Medium	31,9	39,7x39,7	31	78	2.6
FLORENTINA-1-O-60	Oval	31,9	39,7x39,7	44+20	72	2.8
FLORENTINA-1-W-60	Wide	31,9	39,7x39,7	44	71	1.3
FLORENTINA-1-MRK-S-60	Spot	31,9	39,7x39,7	26	68	2.3
FLORENTINA-1-MRK-M-60	Medium	31,9	39,7x39,7	40	75	1.4
FLORENTINA-1-MRK-W-60	Wide	31,9	39,7x39,7	57	70	0.7

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

Code	Beam type	H	D	Typ. FWHM	Typ. eff.	Typ. cd/lm
FLORENTINA-2X2-SS	Smooth spot	17,7	95.6 x 95.6	20	79	5.4
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-M	Medium	17,7	95.6 x 95.6	30	75	2.4
FLORENTINA-2X2-O	Oval	17,7	95.6 x 95.6	44+18	70	2.5
FLORENTINA-2X2-W	Wide	17,7	95.6 x 95.6	49	70	1.0
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)

Code	Beam type	H	D	Typ. FWHM	Typ. eff.	Typ. cd/lm
FLORENTINA-4X1-SS	Smooth spot	17,72	175.6 x 55.6	16	81	8.5
FLORENTINA-4X1-RS	Real spot	17,72	175.6 x 55.6	TBA	TBA	
FLORENTINA-4X1-D	Diffused spot	17,72	175.6 x 55.6	18	77	6.6
FLORENTINA-4X1-M	Medium	17,72	175.6 x 55.6	30	75	2.4
FLORENTINA-4X1-O	Oval	17,72	175.6 x 55.6	44+15	74	3.0
FLORENTINA-4X1-W	Wide	17,72	175.6 x 55.6	36	69	1.5
FLORENTINA-4X1-MRK-S	Spot	17,72	175.6 x 55.6	28	TBA	2.1
FLORENTINA-4X1-MRK-M	Medium	17,72	175.6 x 55.6	39	75	1.5
FLORENTINA-4X1-MRK-W	Wide	17,72	175.6 x 55.6	49	73	0.8

Also available with white shade

FLORENTINA-OPEN (www.ledil.com/open)

Code	Beam type	H	D	Typ. FWHM	Typ. eff.	Typ. cd/lm
FLORENTINA-2X2-OPEN-SS	Smooth spot	17,7	91,1x91,1	17	83	7.6
FLORENTINA-2X2-OPEN-RS	Real spot	17,7	91,1x91,1	15	80	6.2
FLORENTINA-2X2-OPEN-D	Diffused spot	17,7	91,1x91,1	18	80	6.2
FLORENTINA-2X2-OPEN-M	Medium	17,7	91,1x91,1	30	80	2.7
FLORENTINA-2X2-OPEN-O	Oval	17,7	91,1x91,1	44+17	73	2.7
FLORENTINA-2X2-OPEN-W	Wide	17,7	91,1x91,1	49	70	1.0
FLORENTINA-2X2-MRK-OPEN-S	Spot	17,7	91,1x91,1	29	71	2.0
FLORENTINA-2X2-MRK-OPEN-M	Medium	17,7	91,1x91,1	39	75	1.5
FLORENTINA-2X2-MRK-OPEN-W	Wide	17,7	91,1x91,1	49	74	0.8
FLORENTINA-4X1-OPEN-SS	Smooth spot	17,7	91,1x91,1	17	78	6.6
FLORENTINA-4X1-OPEN-RS	Real spot	17,7	91,1x91,1	18	77	8.2
FLORENTINA-4X1-OPEN-D	Diffused spot	17,7	91,1x91,1	18	77	6.6
FLORENTINA-4X1-OPEN-M	Medium	17,7	91,1x91,1	30	75	2.6
FLORENTINA-4X1-OPEN-O	Oval	17,7	91,1x91,1	41+17	71	2.9
FLORENTINA-4X1-OPEN-W	Wide	17,7	91,1x91,1	45	70	1.3
FLORENTINA-4X1-MRK-OPEN-S	Spot	17,7	91,1x91,1	29	71	2.0
FLORENTINA-4X1-MRK-OPEN-M	Medium	17,7	91,1x91,1	39	75	1.5
FLORENTINA-4X1-MRK-OPEN-W	Wide	17,7	91,1x91,1	49	74	0.8

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-Z90	Extra wide	90 + 110	94	0,4
FLORENCE-1R-Z60	Medium	58 + 111	94	0,6
FLORENCE-1R-ZT25	Asymmetric	TBA	86	1,0
FLORENCE-1R-Z2T25	Double asymm.	106 + 80	92	0,49
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 on a plate			
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

NEW!

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	0,72
FLORENCE-1R-GC-Z90	Rectangular	90	94	TBA
FLORENCE-1R-GC-ZT25	Asymmetric	TBA	TBA	TBA

FLORENCE-3R

COMPATIBILITY: Range of 3x11 mid-power LED modules up to 5630 size packages

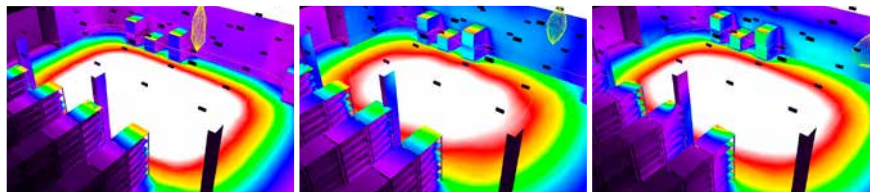
Name	Beam type	Typ. FWHM	Typ. eff.	Typ. cd/lm
FLORENCE-Z30	M	29	94	2,2
FLORENCE-Z60	W	58	88	0,8
FLORENCE-Z90	WWW	92	86	0,4
FLORENCE-ZT25	Asymmetric	Asymm.	94	0,6
FLORENCE-O	Oval	84 + 35	89	TBA
FLORENCE-ZT25-S	Single-sided asymmetric oval	Asymm.	94	0,6
FLORENCE-3R-SHD-BLK	Black shade to obtain lower UGR			
FLORENCE-3R-SHD-GR	Grey shade to obtain lower UGR			
FLORENCE-3R-SHD-WHT	White shade			

FLORENCE-3R-IP

NEW!

COMPATIBILITY: Range of 3x11 mid-power LED modules up to 5630 size packages

Name	Beam type	Typ. FWHM	Typ. eff.	Typ. cd/lm
FLORENCE-3R-IP-Z60	W	60	86	0,72
FLORENCE-3R-IP-Z90	WWW	TBA	TBA	TBA
FLORENCE-3R-IP-O	Oval	84+40	86	0,68



3R-Z30 ~7 meters

3R-Z60 ~5 meters

3R-Z90 ~3.5 meters

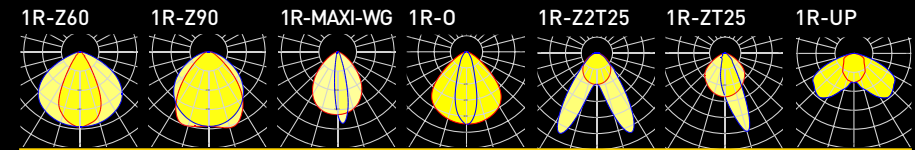
FLORENCE-family

FLORENCE-1R

FLORENCE-1R modules are designed for single row mid-power modules. The modules can easily be snapped apart into single

95mm pieces. Narrow width of the module makes it easy to achieve sleek and stylish linear luminaire design. Easy installation

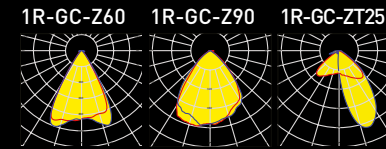
with optional clips makes manufacturing fast and cost efficient. Linear optical design compatible with any LED pitch.



FLORENCE-1R-GC

NEW!

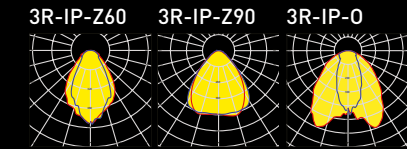
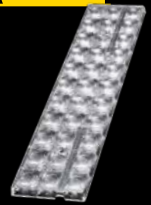
- Fixed led pitch of 24 x 11,62mm
- Excellent longitudinal glare control to allow below 19 UGR ratings
- Optimized LED layout to increase light in the desired area
- Special surface smoothens out and removes unwanted color-over-angle artefacts
- Optional clips available for easier installation and continuous rows



FLORENCE-3R-IP

NEW!

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

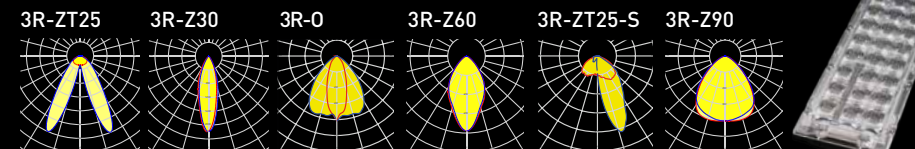


FLORENCE-3R

The FLORENCE-3R family offers 6 optical versions optimized for efficient lighting in industrial

and architectural applications. For for architectural and retail applications where glare may be

an issue, UGR can be decreased below 19 with the optional FLORENCE-SHD shades.



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-M	Medium	12	8	295 x 16	26	89	TBA
VANESSA-O	Oval	12	8	295 x 16	42+19°	82	TBA
VANESSA-S	Spot	12	8	295 x 16	17	90	TBA
VANESSA-B-O	Oval	12	8	295 x 16	45+21°	88	1,8
VANESSA-B-S	Spot	12	8	295 x 16	22	93	4,1
VANESSA-B-W	Wide	12	8	295 x 16	37	92	1,73

SHELLY (www.ledil.com/shelly)

Quality shelf lighting

SHELLY-T-6X1-N is designed for overall illumination of shelves and SHELLY-T-6X1-WAS to light the back wall of the shelf.

COMPATIBILITY: Up to 3535 size LED packages

Name	H	D	Typ. FWHM	Typ. Eff.
SHELLY-T-6X1-N	7	119,8x19,6	Asymm.	94
SHELLY-T-6X1-WAS	7,6	119,8x19,6	Asymm.	94



VANESSA-B-O



SHELLY-T-6X1-N



SHELLY-T-6X1-WAS

NEW!



LINNEA-90

LINNEA (www.ledil.com/linnea)

- 40mm wide PC lens with a diffused surface and a low profile
- Lens clips to a metal sheet or profile while resting on top of the PCB
- Enough space for board-to-board connections
- Additional end caps to close continuous rows of LINNEA optics

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

Name	H	D	Typ. FWHM	Typ. Eff.
LINNEA-60	12	280x40	60	80
LINNEA-90	9,5	280x40	90	85
LINNEA-O	12	280x40	35+70	81
LINNEA-Z2T25	10,3	280x40	TBA	TBA
LINNEA-END-MS	Short end cap (male)			
LINNEA-END-FS	Short end cap (female)			

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

Code	Beam type	Typ. FWHM	Typ. Eff.	Typ. cd/lm
MINNIE-M	Medium	24	90	2,6
MINNIE-W	Wide	33	89	2
MINNIE-WWW	Extra wide	69	91	0,9
MINNIE-XW	Extra ² wide	90	92	0,5
MINNIE-LT-M	Medium	21	92	2
MINNIE-LT-W	Wide	29	92	2
MINNIE-LT-WWW	Extra wide	62	93	0,87
MINNIE-LT-XW	Extra ² wide	TBA	TBA	TBA



BOOM (www.ledil.com/boom)

COMPATIBILITY: Up to 7070 size LED packages

Code	H	D	Typ. FWHM	Typ. cd/lm
BOOM-M	14	22,2	32	1,9
BOOM-S	14	22,2	18	3,6
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 10mm

Code	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

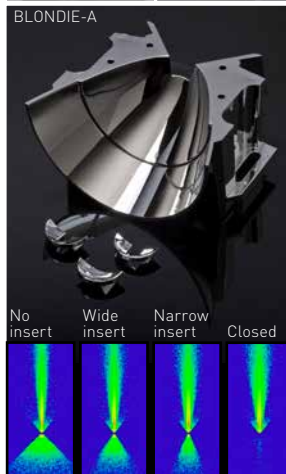
Name	H	D	Typ. FWHM	Typ. eff.
VENLA-S	25	45	13	TBA
VENLA-M	25	45	28	90
VENLA-W	25	45	45	TBA
VENLA-WW	25	45	56	87
VENLA-S-IRIS	25	45	18	93



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	36x28,4	87	0,6
RITA-WAS	Asymm.	17	31,9x28,4	85	0,63
RITA-A-RZ	Asymm.	19	35x29	82	0,6
RITA-WAS-RZ	Asymm.	19	35x29	80	0,6



BLONDIE (www.ledil.com/blondie)

Blade type wall grazing luminaires are good choices for emphasizing details and adding structure to buildings. BLONDIE reflector produces a very tight blade type wall washing beam with a single LED source using only a few watts of energy.

To shape the double-sided beam of BLONDIE further, it comes with three interchangeable inserts. With these additional reflector pieces, the backside light can easily be shaped into different angles.

COMPATIBILITY: Up to 7070 size LED packages

Name	H	D	Beam type
BLONDIE-A	45	92x78,3	Decorative

LEDiL's 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)

ø45mm reflector system optimized for lighting manufacturers to construct more compact sized luminaires with modern high density COBs that have smaller LES's. Compatible with LEDiL's patented BARBARA-RZ color mixing sublens for multi-color or tunable white light applications.

COMPATIBILITY

- BROOKE-G2: up to 17mm LES sizes
- BROOKE-G2+HEKLA: up to 13mm LES sizes

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 lenses

BARBARA-RZ-LENS Color mixing sublens

LEDiL HEKLA Sockets (Check compatibility on page 39 or www.ledil.com)



BROOKE (www.ledil.com/brooke)

COMPATIBILITY: COB's with LES size up to 18mm

Name	Typ. FWHM	Typ. Eff.	Typ. cd/lm
BROOKE-S	24	94	5,2
BROOKE-M	28	92	2,2
BROOKE-SCR-M	24	91	2,5
BROOKE-SCR-W	42	91	1,2
BROOKE-W	46	92	1,24
BROOKE-XW	86	94	0,53
BROOKE-SOCKET-VERO10	Socket to position and hold BRX Vero10		



MIRELLA-family

ø50mm LEDiL System reflector family manufactured from impact-resistant polycarbonate. Available with an optional clear, diffusing or mixing lens, molded from PMMA.

MIRELLA

Fastening with glue

COMPATIBILITY: COBs with LES size up to 14mm

Name	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
MIRELLA-50-S	24	49,9	15	92	8.5
MIRELLA-50-M	24	49,9	27	90	2.8
MIRELLA-50-W	24	49,9	41	90	1.6
MIRELLA-50-XW	24	49,9	80	93	0.54

Additional lenses

MIRELLA-CL	Clear lens
MIRELLA-DL	Diffused lens
MIRELLA-RZL	Color mixing lens



MIRELLA-PIN

Fastening with pins

COMPATIBILITY: COBs with LES size up to 14mm

Name	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
MIRELLA-50-S-PIN	24	49,9	11	87	12.3
MIRELLA-50-M-PIN	24	49,9	23	86	3.2
MIRELLA-50-W-PIN	24	49,9	33	86	1.6
MIRELLA-50-XW-PIN	24	49,9	80	93	0.6

Additional lenses

MIRELLA-CL	Clear lens
MIRELLA-DL	Diffused lens
MIRELLA-RZL	Color mixing lens



MIRELLA-PF

Fastening with socket

COMPATIBILITY:

- COBs with LES size up to 14mm
- 3rd 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

LEDiL PF Sockets

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

Additional lenses

MIRELLA-CL	Clear lens
MIRELLA-DL	Diffused lens
MIRELLA-RZL	Color mixing lens

MIRELLA-G2

Fastening with socket

COMPATIBILITY: COBs with LES size up to 12mm

Name	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
MIRELLA-G2-S					
MIRELLA-G2-M					
MIRELLA-G2-W					
MIRELLA-G2-XW					

LEDiL HEKLA Sockets (Check compatibility on page 39 or www.ledil.com)

Additional lenses

MIRELLA-CL	Clear lens
MIRELLA-DL	Diffused lens
MIRELLA-RZL	Color mixing lens

NEW!



BARBARA-family

Versatile ø70mm LEDiL System reflector family.
BARBARA-PF and -G2 optics available with an optional color mixing sublens.

BARBARA

Fastening with glue

COMPATIBILITY: COBs with LES size up to 19mm

Name	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
BARBARA-S	44,7	70	17	90	4.5
BARBARA-W	44,7	70	39	90	2.0
BARBARA-WW	44,7	70	60	90	0.8
BARBARA-XW	44,7	70	75	90	0.5



BARBARA-PF

Fastening with socket

COMPATIBILITY:

- COBs with LES size up to 19mm
- 3rd 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



LEDiL PF Sockets

XTM-PF-ADAPTER	Adapter ring for Xicato XTM/XIM modules
SOCKET-CXA15-18	
SOCKET-CXA15	
PF-NSX-SOCKET	
PF-SOCKET	
SOCKET-VER010	
SOCKET-VER013/18	

Additional lenses

BARBARA-RZ-LENS	Color mixing sublens
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BARBARA-G2

Fastening with socket

NEW!

COMPATIBILITY

BARBARA-G2 + HEKLA: COBs with LES size up to 17mm

Name	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
BARBARA-G2-S	41,9	70	TBA	TBA	TBA
BARBARA-G2-W	41,9	70	TBA	TBA	TBA
BARBARA-G2-WW	41,9	70	TBA	TBA	TBA
BARBARA-G2-XW	41,9	70	TBA	TBA	TBA

LEDiL HEKLA Sockets (Check compatibility on page 39 or www.ledil.com)

Additional lenses

BARBARA-RZ-LENS	Color mixing sublens
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LENA / LENINA

ø111mm and ø74mm reflector families part of the LEDiL's System Reflectors. Available with additional clear or diffuser lens and easy fastening with LENA/LENINA base parts.

LENA (www.ledil.com/lenafamily)

COMPATIBILITY:

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

Code	Beam type	D	H	Typ. FWHM	Typ. Eff.	Typ. cd/lm
LENA-M	M	111	86	22	83	2,5
LENA-S	S	111	86	11	85	7,6
LENA-SS	SS	111	86	18	82	5
LENA-W	W	111	86	46	82	1,3
LENA-WAS	WAS	111	37	Asym	82	1,1

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

LENINA (www.ledil.com/leninafamily)

COMPATIBILITY:

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

Code	Beam type	D	H	Typ. FWHM	Typ. Eff.	Typ. cd/lm
LENINA-M	M	74	46	31	87	2,1
LENINA-S	S	74	46	19	88	4,5
LENINA-W	W	74	46	53	87	1,1
LENINA-XW	XW	74	46	73	89	0,6

LENINA-DL	Diffuser lens
LENINA-CL	Clear lens

Base parts for LENA/LENINA

Code	Description
LENA-ADAPTER-B	Adapter ring for BJB interface
LENA-STD-BASE-CXA15	
LENA-STD-BASE-CXA20	
LENA-STD-BASE-CXA18	
LENA-STD-BASE-CXA25	
LENA-STD-BASE-CL340	
LENA-STD-BASE-CLL030	
LENA-STD-BASE-CLL040	
LENA-STD-BASE-BXRA	
LENA-STD-BASE-BASE-RS	
LENA-STD-BASE-VERO13-18	
LENA-STD-BASE-VERO29	
LENA-STD-BASE-MEZ	
LENA-STD-BASE-LUXEON-K	
LENA-STD-BASE-COB204	
LENA-STD-BASE-E30	



ANGELA/ANGELINA/ANGELETTE

ø120mm, ø82mm and ø110mm reflector families part of the LEDiL's System Reflectors. ANGELA/ANGELINA/ANGELETTE-B versions available with BJB compatible interface.

ANGELA (www.ledil.com/angela-family)

COMPATIBILITY:

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

Code	Beam type	D	H	Typ. FWHM	Typ. Eff.	Typ. cd/lm
ANGELA-S	Spot	119,5	79,3	25	89	3,2
ANGELA-M	Medium	119,5	79,3	32	89	2,5
ANGELA-W	Wide	119,5	74,5	46	89	1,4
ANGELA-XW	Wide	119,5	74,5	72	93	0,6

ANGE-RZ lens	Color mixing sublens
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ANGELINA (www.ledil.com/angelina-family)

COMPATIBILITY:

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

Code	Beam type	D	H	Typ. FWHM	Typ. Eff.	Typ. cd/lm
ANGELINA-S	Spot	82	31	39	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	0,46

ANGE-RZ lens	Color mixing sublens
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ANGELETTE (www.ledil.com/angelette-family)

COMPATIBILITY:

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

Code	Beam type	D	H	Typ. FWHM	Typ. Eff.	Typ. cd/lm
ANGELETTE-S	Spot	110	57,3	15	90	5,3
ANGELETTE-M	Medium	110	57,3	50	89	1,2
ANGELETTE-WW	Extra wide	110	57,3	70	90	0,8
ANGELETTE-WAS	Asymm.	97.2x83.4	84	Asymm.	92	1,4

ANGE-RZ lens	Color mixing sublens
ANGELTTE-LENS	Clear lens for symmetrical ANGELETTE reflectors
ANGELETTE-DL	Diffusing lens for symmetrical ANGELETTE reflectors

Code	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 lens	Color mixing sublens
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Base parts for ANGELA/ANGELINA/ANGELETTE

Code	Description
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	



HEKLA

Coming soon!
BARBARA-G2
Ø 70 mm

Coming soon!
MIRELLA-G2
Ø 50 mm

BROOKE-G2
Ø 45 mm

CARMEN
Ø 70 mm
incl. CARMEN-HLD-C

ZORYA
Ø 55 mm
incl. ZORYA-ADAPTER-HEKLA

Coming soon!
RONDA
Ø 54 mm
incl. RONDA-HLD-C

Coming soon!
WINNIE
Ø 50 mm
incl. WINNIE-HLD-C

HEKLA sockets

LEDiL's own standard range of sockets and connectors – especially designed to ensure the most optimum performance and support for our optics. Now and in the future.

- **COMPATIBILITY:** Support for many different size COBs and a variety of LEDiL optics with Zhaga mounting holes
- **USABILITY:** Easy to use twist & lock mechanism for quick optics assembly and replacement
- **DURABILITY:** Long lasting materials that can handle high temperatures without losing grip
- **INNOVATION:** LEDiL upcoming Push-In connectors allow a socket to become a solderless connector



HEKLA Sockets	Max LES size	Example LED
F15253_HEKLA-SOCKET-A	9,0mm	Bridgelux V8 (G6)
F15254_HEKLA-SOCKET-B	14mm	Cree CXA1850
F15255_HEKLA-SOCKET-C	11,6mm	Citizen CLL020
F15256_HEKLA-SOCKET-D	10,7mm	Cree CXA1520
F14988_HEKLA-SOCKET-E	14,3mm	Bridgelux V10 and V13(G6)
F15616_HEKLA-SOCKET-F		Bridgelux VERO10
F15848_HEKLA-SOCKET-G	Coming soon	Sharp Mini ZENIGATA
F15858_HEKLA-SOCKET-H	Coming soon	Lumileds Luxeon CoB 1203
F15859_HEKLA-SOCKET-I	Coming soon	Citizen CLL03x
F15956_HEKLA-SOCKET-J	Coming soon	Cree CXA1310

STRADA single lenses

www.ledil.com/strada

STRADA lenses, originally designed for street lighting applications, are suitable for many other applications as well. Like all LEDiL products STRADA lenses are optimized for specific LED types and have optimal light distribution and over 90% optical efficiency. Some STRADA lenses can also be used with other LED types with a small sacrifice in light distribution and optical efficiency. Asymmetric type light

distributions are designated for roadway lighting with optimal performance.

Symmetric STRADA lenses were the first lenses from LEDiL designed especially for street lighting applications. On street lighting setups, symmetrical light distribution requires a mounting boom and tilt in the lamp head. This makes symmetrical STRADA lenses ideal for traditional street light replacement.

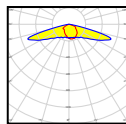
Made from PMMA.

COMPATIBILITY

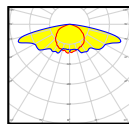
- **STRADA:** Up to 3535 sized LED packages
- **STRADA-SQ:** Up to 7070 size LED packages



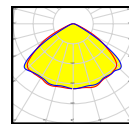
STRADA-SQ



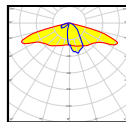
STRADA-SQ-ANZ-P
D: 25 x 25 mm
Typ. eff.: 91%



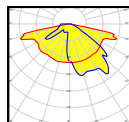
STRADA-SQ-ANZ-V
D: 25 x 25 mm
Typ. eff.: 93%



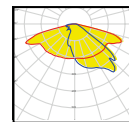
STRADA-SQ-CY
D: 25x25 mm
H: 10.1 mm
Typ. eff: 94%



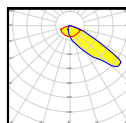
STRADA-SQ-T2
D: 25 x 25 mm
H: 8,5 mm
Typ. eff: 90%



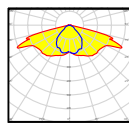
STRADA-SQ-T3
D: 25 x 25 mm
H: 8,5 mm
Typ. eff: 90%



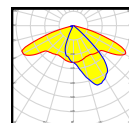
STRADA-SQ-ME
D: 25 x 25 mm
H: 8,8 mm
Typ. eff: 92%



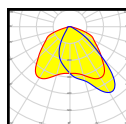
STRADA-SQ-FS
D: 25 x 25 mm
H: 12.3 mm
Typ. eff: 93%



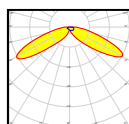
STRADA-SQ-FS2
D: 25 x 25 mm
H: 8.2 mm
Typ. eff: 90%



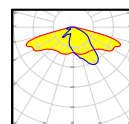
STRADA-SQ-A-T
D: 25 x 25 mm
H: 9,1 mm
Typ. eff: 93%



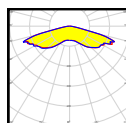
STRADA-SQ-T-DN
D: 25 x 25 mm
H: 8,5 mm
Typ. eff: 90%



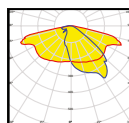
STRADA-SQ-T-DW
D: 25 x 25 mm
H: 11,4 mm
Typ. eff: 91%



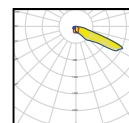
STRADA-SQ-T-DWC
D: 25 x 25 mm
H: 9,1 mm
Typ. eff: 93%



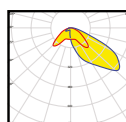
STRADA-SQ-VSM
D: 25 x 25 mm
H: 6,9 mm
Typ. eff: 93%
Typ. FWHM: 152°



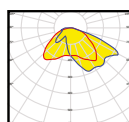
STRADA-SQ-T3B
D: 25 x 25 mm
H: 8,4 mm,
Typ. eff: 93%



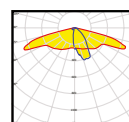
STRADA-SQ-FS3
D: 25 x 25 mm
H: 16,2 mm
Typ. eff.: 91%



STRADA-SQ-FS4
D: 25 x 25 mm
H: 12,5 mm
Typ. eff.: 90%

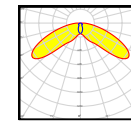


STRADA-SQ-T4
D: 25 x 25 mm
H: 9,4 mm
Typ. eff: 93%

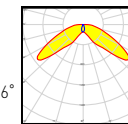


NEW STRADA-SQ-T2-B
D: 25 x 25 mm
H: 10,35 mm

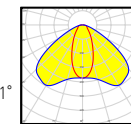
STRADA



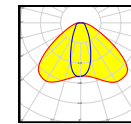
STRADA-A
D: 19,6 x 15,5 mm
H: 10,8 mm
Typ. eff: 92%
Typ. FWHM: 80° x 146°



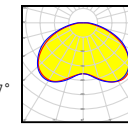
STRADA-A2
D: 19,6 x 15,5 mm
H: 10,6 mm
Typ. eff: 92%
Typ. FWHM: 72° x 141°



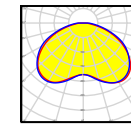
STRADA-B
D: 19,6 x 15,5 mm
H: 6 mm
Typ. eff: 93%
Typ. FWHM: 105° x 44°



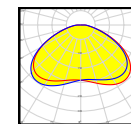
STRADA-B2
D: 19,6 x 15,5 mm
H: 5,3 mm
Typ. eff: 92%
Typ. FWHM: 111° x 47°



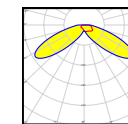
STRADA-C
D: 19,6 x 15,5 mm
H: 5,3 mm
Typ. eff: 92%
Typ. FWHM: 125°



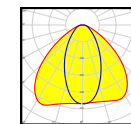
STRADA-C2
D: 19,6 x 15,5 mm
H: 6,4 mm
Typ. eff: 92%
Typ. FWHM: 120°



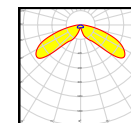
STRADA-C2-CLIP
D: 19,6 x 15,5 mm
H: 6,9 mm
Typ. eff: 92%



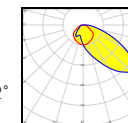
STRADA-T-DW
D: 19,6 x 15,5 mm
H: 10,8 mm
Typ. eff: 93%



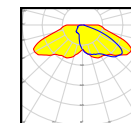
STRADA-DN
D: 19,6 x 15,5 mm
H: 5,9 mm
Typ. eff: 92%
Typ. FWHM: 107° x 58°



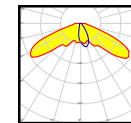
STRADA-DW
D: 19,6 x 15,5 mm
H: 9,6 mm
Typ. eff: 92%
Typ. FWHM: 89° x 142°



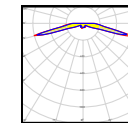
STRADA-FT
D: 19,6 x 15,5 mm
H: 8,3 mm
Typ. eff: 91%



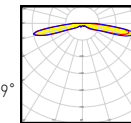
STRADA-FW
D: 19,6 x 15,5 mm
H: 10,9 mm
Typ. eff: 92%



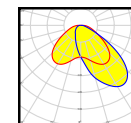
STRADA-K
D: 19,6 x 15,5 mm
H: 6,9 mm
Typ. eff: 96%



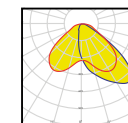
STRADA-S
D: 19,6 x 15,5 mm
H: 6,9 mm
Typ. eff: 93%
Typ. FWHM: 149° x 159°



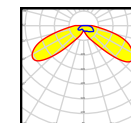
STRADA-S-14
D: 19,6 x 15,5 mm
H: 6,9 mm
Typ. eff: 93%
Typ. FWHM: 149° x 159°



STRADA-T-DN-EP
D: 19,6 x 15,5 mm
H: 8,8 mm
Typ. eff: 91%

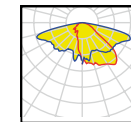


STRADA-T-DN
D: 19,6 x 15,5 mm
H: 8,9 mm
Typ. eff: 92%



STRADA-T-DW-EP
D: 19,6 x 15,5 mm
H: 10,7 mm
Typ. eff: 92%

Name	Dimensions	Height	Typ. eff.	Typ. FWHM
STRADA-SQ-FS-NP	25x25	12,4	93	Asymm.
STRADA-SQ-ME-NP	25x25	8,6	93	Asymm.
STRADA-SQ-FW	25x25	15,3	90	Asymm.
STRADA-SQ-T4-NP	25x25	9,4	92	Asymm.
STRADA-SQ-T-DW-90	25x25	11,4	91	Asymm.
STRADA-C2-NP	19,6x15,6	6,9	92	Asymm.



NEW STRADA-ME
D: 19,6 x 15,5 mm
H: 5,73 mm
Typ. eff.: 94%

STRADA-2X2 modules

www.ledil.com/strada-2x2

STRADA-2X2 modules – industrial standard footprint created by LEDiL. All modules feature same 50 x 50 mm footprint and positioning features making it easy for customers to modify luminaires for different applications. Being original inventor of 2X2 modules, LEDiL offers widest range of different application optimized light distributions in the market. 2X2 modules are

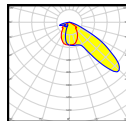
well maintained and future-proof solution – When choosing original LEDiL 2X2 optics you can rest assured that also your luminaires will stay up-to-date regardless of future LED developments.

Made from PMMA.

COMPATIBILITY

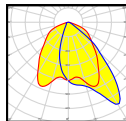
- Up to 5050 sized LED packages

Area lighting



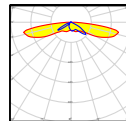
STRADA-2X2-FN

D: 50 x 50 mm
H: 10 mm
Typ. eff.: 94%
Forward throw,
Narrow beam



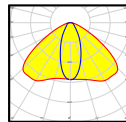
STRADA-2X2-DN

D: 50 x 50 mm
H: 8,05 mm
Typ. eff.: 94%
Forward throw,
Wide beam



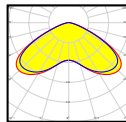
STRADA-2X2-XW

D: 50 x 50 mm
H: 7 mm
Typ. eff.: 94%
Wide beam



STRADA-2X2-B2-STP

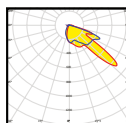
D: 50 x 50 mm
H: 5.18 mm
Typ. eff.: 93%



STRADA-2X2-C-STP

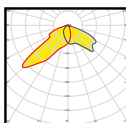
D: 50 x 50 mm
H: 6.27 mm
Typ. eff.: 94%

Pedestrian crossing lighting



STRADA-2X2-PX

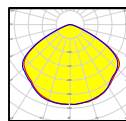
D: 50 x 50 mm
H: 8 mm
Typ. eff.: 94%
For right side traffic



STRADA-2X2-PXL

D: 50 x 50 mm
H: 8 mm
Typ. eff.: 94%
For left side traffic

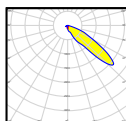
High bay



STRADA-2X2-CY

D: 50x50 mm
H: 7.8 mm
Typ. eff.: 94%

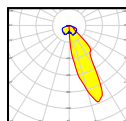
Tunnel lighting



STRADA-2X2-TF

D: 50 x 50 mm
H: 8.73 mm
Typ. eff.: 94%

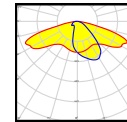
Urban lighting, Minimal backlight



STRADA-2X2-NHS

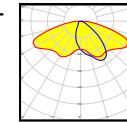
D: 50 x 50 mm
H: 9.8 mm
Typ. eff.: 90%

Street lighting



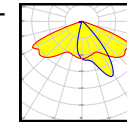
STRADA-2X2-DWC

D: 50 x 50 mm
H: 6 mm
Typ. eff.: 93%



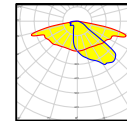
STRADA-2X2-DNW

D: 50 x 50 mm
H: 11 mm
Typ. eff.: 93%



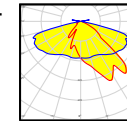
STRADA-2X2-A-T

D: 50 x 50 mm
H: 7,3 mm
Typ. eff.: 93%



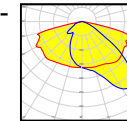
STRADA-2X2-ME

D: 50 x 50 mm
H: 8,2 mm
Typ. eff.: 94%



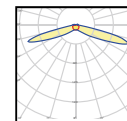
STRADA-2X2-ME-WIDE1

D: 50 x 50 mm
H: 8.3 mm
Typ. eff.: 84%



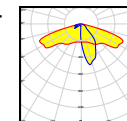
STRADA-2X2-ME-WIDE2

D: 50 x 50 mm
H: 7 mm
Typ. eff.: 81%



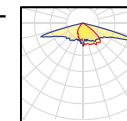
STRADA-2X2-T1

D: 50 x 50 mm
H: 7,78 mm
Typ. eff.: 94%
IESNA Type I light
distribution



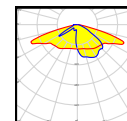
STRADA-2X2-T2

D: 50 x 50 mm
H: 7,7 mm
For IESNA Type 2
road lighting
Typ. eff.: 94%



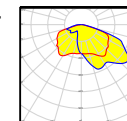
STRADA-2X2-T2-C

D: 50 x 50 mm
H: 7,34 mm
Typ. eff.: 94%



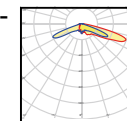
STRADA-2X2-T3

D: 50 x 50 mm
H: 7 mm
Typ. eff.: 94%



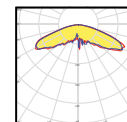
STRADA-2X2-T4

D: 50 x 50 mm
H: 7 mm
Typ. eff.: 94%



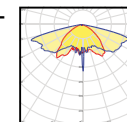
STRADA-2X2-T4-B

D: 50 x 50 mm
H: 9,02 mm
Typ. eff.: 93%



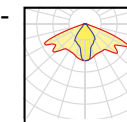
STRADA-2X2-VSM

D: 50 x 50 mm
H: 6.14 mm
Typ. eff.: 94%
IESNA Type V Short



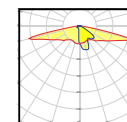
STRADA-2X2-CAT

D: 50 x 50 mm
H: 6,2 mm
Typ. eff.: 94%
For catenary
luminaires



STRADA-2X2-CAT-B

D: 50 x 50 mm
Typ. eff.: 94%

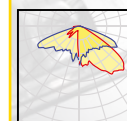


STRADA-2X2-SCL

D: 50 x 50 mm
H: 7,8 mm
Typ. eff.: 94%
European S-class
lighting

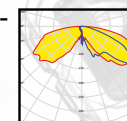
NEW!

Street lighting



STRADA-2X2-MEW

D: 50 x 50 mm
H: 10,16 mm
Typ. eff.: 88%
ME for wet roads



STRADA-2X2-FW

D: 50 x 50 mm
H: 11,98 mm
Typ. eff.: 92%

STRADA-2X2MX modules

www.ledil.com/2x2mx

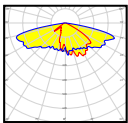
The 2X2MX platform features standardized 90x90 mm square-shaped footprint and same incomparable performance as proven in smaller HB- and STRADA-2X2 modules. 90-degree rotation of the modules with wide range of optic solutions enables mixing and modifying your same luminaire structure to be used in many different applications. With integrated silicone gasket all modules are protected from dirt and water.

COMPATIBILITY

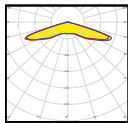
- Super high-power LEDs up to 7070 size packages



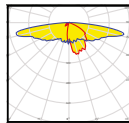
2x2mx



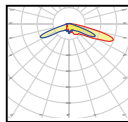
STRADA-2X2MX-DWC
D: 90 x 90 mm
H: 11,3 mm
Typ. eff.: 94%
PMMA



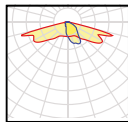
STRADA-2X2MX-VSM
D: 90 x 90 mm
H: 13,4 mm
PMMA
Typ. eff.: 94%
Type V street lighting



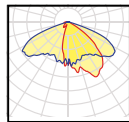
STRADA-2X2MX-SCL
D: 90 x 90 mm
H: 13,17 mm
PMMA
S class lighting applications



STRADA-2X2MX-T4-B
D: 90 x 90 mm
PMMA
Widest IESNA Type IV Forward throwing beam



STRADA-2X2MX-T2
D: 90 x 90 mm
H: 12,57 mm
PMMA
Type II road lighting beam



STRADA-2X2MX-T2-S
D: 90 x 90 mm
H: 11,13 mm
PMMA
Typ. eff.: 94%
IESNA Type II Short beam for high or dense pole setups

Silicone STRADA-2X2MXS modules

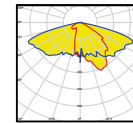
www.ledil.com/products

NEW!

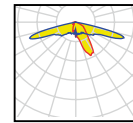
A silicone lens that does not shy away from bad weather conditions or smaller impacts. Not to forget exceptional thermal and UV resistance.

COMPATIBILITY

- Up to 7070 size LED packages



STRADA-2X2MXS-DWC2
D: 90 x 90 mm
H: 14,41 mm
Silicone



STRADA-2X2MXS-T2
D: 90 x 90 mm
H: 12,7 mm
Silicone



Silicone STRADA-2X2S modules

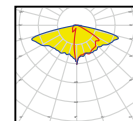
www.ledil.com/products

NEW!

The original STRADA-2X2 with sturdier self-sealing silicone optics - what more can you wish for. The 2X2S-T3 is the first fruit of this new establishment and will lead you to a more care-free and long-lasting outdoor luminaries. Simple fastening with only one screw and durable outcome ready to take the heat from all directions.

COMPATIBILITY

- Up to 5050 size LED packages



STRADA-2X2S-T3
D: 50 x 50 mm
H: 7,23 mm
Silicone
IESNA Type III Medium light distribution





JENNY (www.ledil.com/jennyfamily)

Cost effective silicone lens family. 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

Code	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-8X1-20	Coming soon	280 x 35	96	20
JENNY-40	Coming soon	35 x 35	96	40
JENNY-8X1-40	Coming soon	280 x 35	96	40
JENNY-60	Coming soon	35 x 35	94	60
JENNY-8X1-60	Coming soon	280 x 35	94	60
JENNY-FT45	Coming soon	35 x 35	92	Asymm.
JENNY-8X1-FT45	Coming soon	280 x 35	92	Asymm.
JENNY-HLD-A-BLK	5	34.8 x 50		

STELLA (www.ledil.com/stellafamily)

- Self-sealing design simplifies luminaire design
- Very good thermal and UV-resistance
- Average optical efficiency of 92%

COMPATIBILITY

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

Code	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-CLAMP-CXA15-18				

- **STELLA-A** – street lighting lens (typically Type II / Type III beam)
- **STELLA-DWC2** – street lighting lens (typically Type III beam)
- **STELLA-T4** – area lighting lens (typically Type IV beam)
- **STELLA-VSM** – Symmetric area lighting lens (wide Type V beam)
- **STELLA-FRESNEL** – narrow symmetric beam for warehouse and outdoor applications.
- **STELLA-HB** – symmetric beam for warehouse and outdoor applications.
- **STELLA-HB-WWW** – wide symmetric beam for warehouse and outdoor applications.

STRADA-IP-2X6 modules

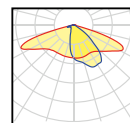
www.ledil.com/strada-ip-2x6

STRADA-IP-2X6 modules are the solution for efficient and aesthetically pleasant street lighting. Bigger lens modules allow easier installation and faster construction of luminaries.

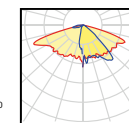
All the modules come with an integrated silicone gasket to allow ingress protection against dirt and dust up to IP67. Wide range of optical solutions to cover major European, Russian and IESNA lighting classes makes upgrading street light into more efficient LED lighting easier than ever.

COMPATIBILITY

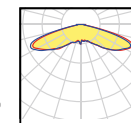
- Up to 5050 size LED packages



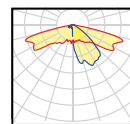
STRADA-IP-2X6-DWC
D: 173 x 71,4 mm
H: 7,9 mm
Typ. efficiency: 93%



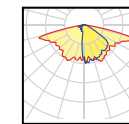
STRADA-IP-2X6-ME
D: 173 x 71,4 mm
H: 8,4 mm
Typ. efficiency: 94%



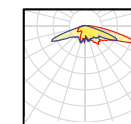
STRADA-IP-2X6-VSM
D: 173 x 71,4 mm
H: 9 mm
Typ. efficiency: 94%



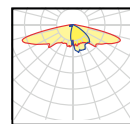
STRADA-IP-2X6-T2-B
D: 173 x 71,4 mm
H: 12,03 mm
Typ. efficiency: 95%



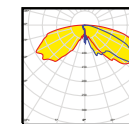
STRADA-IP-2X6-T3-B
D: 173 x 71,4 mm
H: 12,75 mm
Typ. efficiency: 94%



STRADA-IP-2X6-T4-B
D: 173 x 71,4 mm
H: 10,57 mm



STRADA-IP-2X6-SCL
D: 173 x 71,4 mm
H: 9,6 mm
Typ. efficiency: 94%



STRADA-IP-2X6-FW
D: 173 x 71,4 mm
H: 13,1 mm

Name	Dimensions	Height	Typ. eff.	Typ. FWHM
STRADA-IP-2X6-T2	173x71,4	9,2	94	Asymm
STRADA-IP-2X6-T3	173x71,4	8,5	94	Asymm
STRADA-IP-2X6-DWC-90	173x71,4	8,98	94	Asymm

STRADA-6X1 modules

www.ledil.com/strada-6x1

Precision-engineered lens array.

Emitted light has an asymmetric tilt in the wide beam to efficiently direct light to the roadway surface and to minimize stray light outside of target areas.

COMPATIBILITY

- Up to 3535 size LED packages



Name	LEDs	H	D	Typ. Eff.
STRADA-T-6X1-ME	6	8,2	119,8x25,2	93
STRADA-T-6X1-DNW	6	5,6	119,8x25,2	93
STRADA-T-6X1-DWC	6	5,5	119,8x25,2	94

TATIANA (www.ledil.com/tatiana)

- Designed especially to meet Russian street lighting standards.
- Module can be snapped into four single lenses which allow upgrading old lighting fixtures and gives more freedom in design.
- Designed for lighting fixtures with 15° mounting angle.
- Suitable also for wire-mounted catenary luminaires.

Name	LEDs	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
TATIANA-1X4-B	4	7,7	102x25	144+62	94	0.54



TATIANA-1X4-B

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

STRADELLA

www.ledil.com/stradellafamily

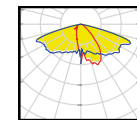
STRADA's little sister – Compact STRADELLA lens doubles or even quadruples the density of LEDs compared to standardized STRADA-2X2 lenses, making it a cost efficient and feasible solution for mid-power LEDs. Made from PMMA or PC.

COMPATIBILITY

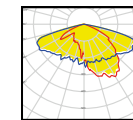
- STRADELLA single lens:** Up to 3535 size mid- and high-power LEDs
- STRADELLA-8:** Up to 3535 size mid- and high-power LEDs
- STRADELLA-9:** Up to 3535 size mid power and CSP LEDs



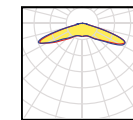
Street and area lighting



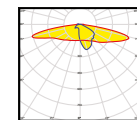
STRADELLA-8-T2
D: 49,5 x 49,5 mm
H: 5,7 mm
Typ. eff.: 94%



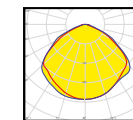
STRADELLA-8-T3
D: 49,5 x 49,5 mm
H: 5,7 mm
Typ. eff.: 94%



STRADELLA-8-VSM
D: 49,5 x 49,5 mm
H: 5,5 mm
Typ. eff.: 94%

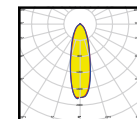


STRADELLA-8-SCL
D: 49,5 x 49,5 mm
H: 5,4 mm
Typ. eff.: 93%

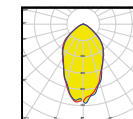


STRADELLA-8-CY
D: 13,9 x 13,9 mm
H: 4,73 mm
Typ. eff.: 94%

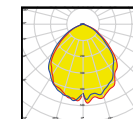
High bay lighting



STRADELLA-8-HB-S
D: 49,5 x 49,5 mm
H: 7,5 mm
Typ. FWHM: 27°



STRADELLA-8-HB-M
D: 49,5 x 49,5 mm
H: 5,7 mm
Typ. FWHM: 58°



STRADELLA-8-HB-W
D: 49,5 x 49,5 mm
H: 7,12 mm
Typ. FWHM: 87°

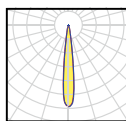
Name	Beam type	LEDs	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
STRADELLA-CY	NEW Asymmetric	1	4,96	13,9x13,9	Asymm	94	0.77
STRADELLA-T2	Asymmetric	1	4,96	13,9x13,9	Asymm	94	0.7
STRADELLA-T3	Asymmetric	1	4,96	13,9x13,9	Asymm	94	0.7
STRADELLA-HB-S	Spot	1	7,5	13,9x13,9	27	TBA	TBA
STRADELLA-HB-M	Medium	1	5,7	13,9x13,9	58	TBA	TBA
STRADELLA-HB-W	Wide	1	7,12	13,9x13,9	87	TBA	TBA
STRADELLA-8-T2	Asymmetric	8	5,7	49,5x49,5	Asymm	94	0.75
STRADELLA-8-T3	Asymmetric	8	5,7	49,5x49,5	Asymm	94	0.7
STRADELLA-8-VSM	Wide area lighting	8	5,5	49,5x49,5	143	94	0.42
STRADELLA-8-SCL	Asymmetric	8	5,5	49,5x49,5	Asymm	93	0.7
STRADELLA-8-HB-S	Spot	8	7,5	49,5x49,5	27	90	1.75
STRADELLA-8-HB-M	Medium	8	5,7	49,5x49,5	58	92	0.70
STRADELLA-8-HB-W	Wide	8	7,12	49,5x49,5	87	94	0.46
STRADELLA-9-AT	Asymmetric	9	6,3	49,5x49,5	Asymm	92	0.46
STRADELLA-16-HB-S	Coming soon Spot	16	7,5	49,5x49,5	TBA	TBA	TBA
STRADELLA-16-HB-M	Coming soon Medium	16	5,7	49,5x49,5	TBA	TBA	TBA
STRADELLA-16-HB-W	Coming soon Wide	16	7,12	49,5x49,5	TBA	TBA	TBA

The information contained herein is the property of LEDiL Oy, Salorankatu 10, FI-24240 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.

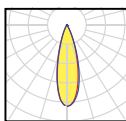
HIGH BAY LIGHTING

HIGH BAY LIGHTING

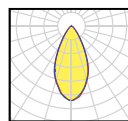
HB-2X2



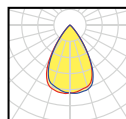
HB-2X2-RS
D: 50x50 mm
H: 10 mm
Typ. FWHM: 10°



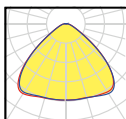
HB-2X2-M
D: 50x50 mm
H: 8,5 mm
Typ. FWHM: 25°



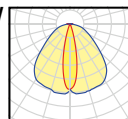
HB-2X2-W
D: 50x50 mm
H: 8,5 mm
Typ. FWHM: 51°



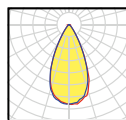
HB-2X2-WW
D: 50x50 mm
H: 8,5 mm
Typ. FWHM: 65°



HB-2X2-WWW
D: 50x50 mm
H: 8,5 mm
Typ. FWHM: 65°

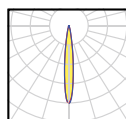


HB-2X2-O
D: 50x50 mm
H: 10,6 mm
Typ. FWHM: 19°+117°

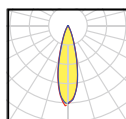


HB-2X2-RW
D: 50x50 mm
H: 8,5 mm
Typ. FWHM: 51°

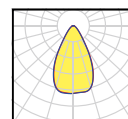
HB-IP-2X6



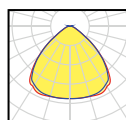
HB-IP-2X6-RS
D: 173x71,4 mm
H: 11,4 mm
Typ. FWHM: 19°



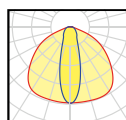
HB-IP-2X6-M
D: 173x71,4 mm
H: 11,4 mm
Typ. FWHM: 27°



HB-IP-2X6-W
D: 173x71,4 mm
H: 11,4 mm
Typ. FWHM: 58°

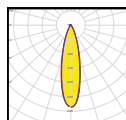


HB-IP-2X6-WWW
D: 173x71,4 mm
H: 11,4 mm
Typ. FWHM: 98°

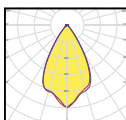


HB-IP-2X6-O
D: 173x71,4 mm
H: 12,2 mm
Typ. FWHM: 32°+115°

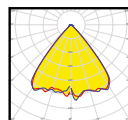
HB-2X2MX



HB-2X2MX-M
D: 90 x 90 mm
H: 16,38 mm
Typ. FWHM: 30°
Typ. eff.: 92%



HB-2X2MX-W
D: 90 x 90 mm
H: 15,35 mm
Typ. FWHM: 50°
Typ. eff.: 92%



HB-2X2MX-WWW
D: 90 x 90 mm
H: 16,38 mm

HB-SQ & HB-5X1

COMPATIBILITY: Up to 7070 size LED packages

Name	LEDs	Dimensions	Height	Typ. FWHM
HB-SQ-A	1	25 x 25	12,9	50
HB-5X1-FLAT-W	5	123 x 25	8,5	54
HB-5X1-W	5	123 x 25	9	56
HB-5X1-WW	5	123 x 25	9	72

HB family

www.ledil.com/highbayfamily

HB-2X2 modules

LEDiL's 2X2 HIGH BAY lenses are designed for DLC compliant high bay applications where the mounting height of the lighting fixtures is usually over ten meters. In addition, HB lenses can be used in other applications, such as indoor architectural and general lighting. There are different lenses for different lighting situations and mounting heights; generally, the wider the beam, the lower the luminaire can be mounted.

COMPATIBILITY

- Up to 5050 size LED packages

HB-IP-2X6 modules

LEDiL's HB-IP module family has integrated silicone gasket allowing it to achieve IP-rating up to IP67.

COMPATIBILITY

- Up to 5050 size LED packages

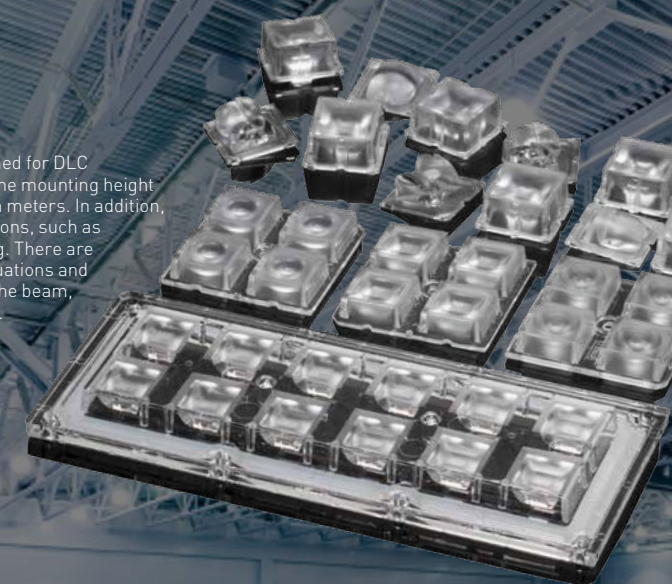
HB-2X2MX modules

www.ledil.com/2x2mx

The 2X2MX platform features standardized 90x90 mm square-shaped footprint and same incomparable performance as proven in smaller HB- and STRADA-2X2 modules. 90-degrees rotation of the modules with wide range of optic solutions enables mixing and modifying your same luminaire structure to be used in many different applications. With integrated silicone gasket all modules are protected from dirt and water up to IP67.

COMPATIBILITY

- Super high-power LEDs up to 7070 size 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.

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

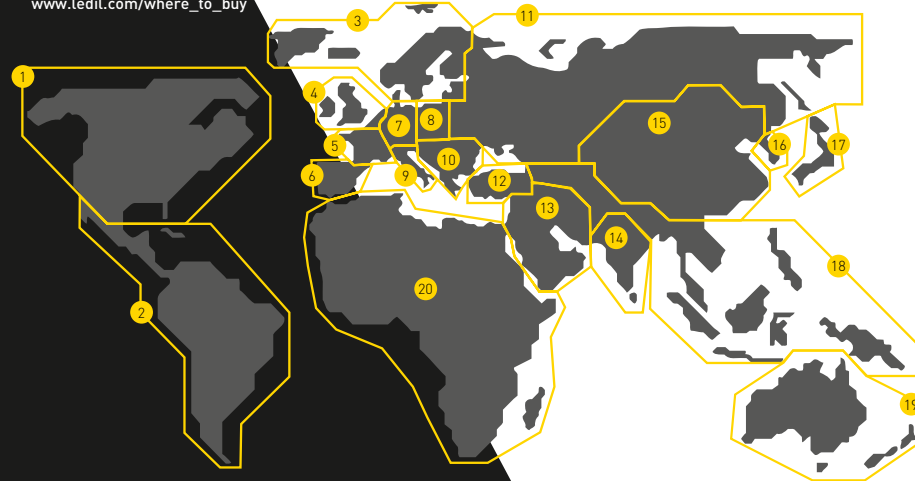
- No need for external 3D-designers
- Accurate light laboratory measurements
- Production facilities on different continents
 - Wide testing capabilities to support product development
- Thermal analysis service from the beginning of a project
 - Technical support during the whole lifetime of a product

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



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