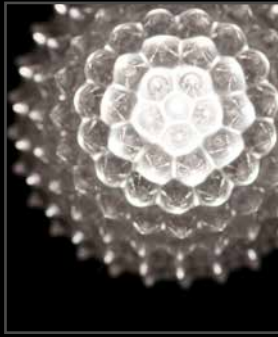


LEDiL®

A collection of various LED lighting components including linear strips, spotlights, and lenses. The components are arranged in a dynamic, overlapping composition against a dark background. The linear strips are prominent, showing their textured surfaces and mounting holes. Several spotlights and lenses are scattered throughout, some showing their internal structures. The overall aesthetic is technical and precise.

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

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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:
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INDOOR

OUTDOOR

PRODUCT FAMILIES & SUGGESTED APPLICATIONS

(not all product families listed)

PRODUCT FAMILY	PAGE	RETAIL & TRACK	DECORATIVE & STAGE	LINEAR	OFFICE	EMERGENCY & SECURITY	WASH LIGHTING	ARCHITECTURAL	RETROFIT	INDUSTRIAL & TECHNICAL	DOWNLIGHT	GENERAL	HORTICULTURAL	STREET LIGHTING	AREA & PARKING LOT	CANOPY	TUNNEL & TRANSPORTATION	FLOOD LIGHT	WASH LIGHTING	ARCHITECTURAL	RETROFIT		
ALISE	34	•																					•
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ANGIE	24								•		•												•
ANNA	25	•						•	•												•	•	•
BARBARA	39	•	•																				•
BILLIE	10						•												•	•			•
BOOM	36												•					•					•
BRIDGET	36																	•					•
BROOKE	37	•	•					•	•									•					•
CARMEN	22	•						•	•														•
CLAUDIA	31	•																					•
CRYSTAL	16		•			•		•															•
CUTE	24								•														•
DAISY	32			•	•																		•
DAHLIA	31												•										•
ELISE	34	•																					•
ELLA	35	•						•															•
EMERALD	14					•								•									•
EMILY	12					•		•										•	•	•			•
EMMA	13					•		•		•								•	•	•			•
EVA	10	•						•										•					•
FLARE	16					•		•									•						•
FLORENCE-1R	28		•	•		•		•		•							•						•
FLORENCE (3R)	28		•	•		•		•		•							•						•
FLORENCE-3R-IP	28		•	•		•		•		•							•						•
FLORENTINA (12X1)	27							•										•	•	•			•
FLORENTINA-1, -2X2, -4X1	27	•				•		•															•
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GERI	17	•						•															•
GT3 / GT4	24								•														•
HB-SQ	55									•													•
HB-2X2	55									•													•
HB-IP-2X6	55									•								•	•				•
HB-2X2MX / MXS	55									•								•	•				•
HEIDI	12							•										•					•
HELENA	14	•				•																	•
IDA	26					•				•													•
ILONA	11	•						•															•
IRENE	10					•																	•
IRIE	10							•															•
IRIS	10		•					•		•													•
JENNY	52									•								•	•				•
JULIA	13					•		•		•								•					•
KIKI	13					•		•		•								•					•
LARISA	6							•															•
LAURA	9					•		•		•								•	•				•
LEIA	14							•															•
LEILA	9					•		•		•								•	•				•
LENA / LENINA	40	•				•		•		•								•	•				•
LILIAN	32					•		•		•													•
LINDA	30	•						•		•													•
LINNEA	33	•				•		•		•													•
LISA	6							•															•
LOTTA	13					•		•		•								•					•

○ ASK FOR COMPATIBILITY

- MID-POWER LEDs
SMD LED, TYPICAL RATED ELECTRICAL POWER <1W
- HIGH-POWER LEDs
SMD LED, TYPICAL RATED ELECTRICAL POWER 1W-3W
- ULTRA-HIGH-POWER LEDs
SMD LED, TYPICAL RATED ELECTRICAL POWER 4W-12W
- COB
CHIPS ON BOARD - INTEGRATED ARRAYS ON A CERAMIC OR MCPCB
- CSP
CHIP SCALE PACKAGE LED, NORMAL MID & HIGH POWER FLIP CHIPS WITHOUT A PACKAGE.

INDOOR

OUTDOOR

PRODUCT FAMILIES & SUGGESTED APPLICATIONS

(not all product families listed)

	PAGE	RETAIL & TRACK	DECORATIVE & STAGE	LINEAR	OFFICE	EMERGENCY & SECURITY	WASH LIGHTING	ARCHITECTURAL	RETROFIT	INDUSTRIAL & TECHNICAL	DOWNLIGHT	GENERAL	HORTICULTURAL	STREET LIGHTING	AREA & PARKING LOT	CANOPY	TUNNEL & TRANSPORTATION	FLOOD LIGHT	WASH LIGHTING	ARCHITECTURAL	RETROFIT		
MINNIE	36																						
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MIRELLA	38																						
MOLLY	21																						
OLGA	11																						
OLIVIA	20																						
RGBX	17																						
RITA	36																						
RONDA	20																						
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SAKURA	18																						
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YASMEEN	19																						
ZORYA	23																						
ZORYA-MINI	23																						

○ ASK FOR COMPATIBILITY

● MID-POWER LEDS
SMD LED, TYPICAL RATED ELECTRICAL POWER <1W

● HIGH-POWER LEDS
SMD LED, TYPICAL RATED ELECTRICAL POWER 1W-3W

● ULTRA-HIGH-POWER LEDS
SMD LED, TYPICAL RATED ELECTRICAL POWER 4W-12W

● COB
CHIPS ON BOARD - INTEGRATED ARRAYS ON A CERAMIC OR MCPCB

● CSP
CHIP SCALE PACKAGE LED, NORMAL MID & HIGH POWER FLIP CHIPS WITHOUT A PACKAGE.

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

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

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 + 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 + 11	84	4.2

VERONICA-SQ

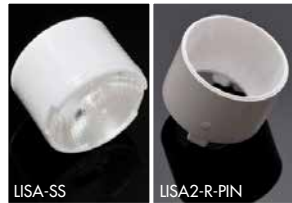
Name	Beam type	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
VERONICA-SQ-RS	Real spot	12.2	22.5x22.5	13	89	18.8
VERONICA-SQ-M	Medium	12.2	22.5x22.5	30	89	3.1
VERONICA-SQ-W	Wide	12.2	22.5x22.5	52	92	1.2
VERONICA-SQ-SE	Side emitting	11.4	22.5x22.5	189	91	2.7
VERONICA-SQ-O	Oval	12.2	22.5x22.5	56+12	82	3.2

VERONICA-SQ-MINI

Name	Beam type	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
VERONICA-SQ-MINI-RS	Real spot	8,86	13.9x13.9	14	92	11
VERONICA-SQ-MINI-D	Diffused spot	8,86	13.9x13.9	15	92	7.3
VERONICA-SQ-MINI-M	Medium	8,86	13.9x13.9	34	89	2.4
VERONICA-SQ-MINI-W	Wide	8,86	13.9x13.9	56	91	0.9
VERONICA-SQ-MINI-O	Oval	8,86	13.9x13.9	15+50	84	3.8



LARISA



LISA-SS

LISA2-R-PIN



LISA3



VERONICA

VERONICA-SQ

VERONICA-SQ-MINI

SINGLE LENSES



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

* Compatible with TINA-SC

TINA3

Name	Beam type	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
TINA3-S	S	11.4	16.1	13	77	8.4
TINA3-W	W	≈ 7	16.1	39	90	1.7
TINA3-WW	WW	≈ 7	16.1	53	90	1.0
TINA3-WWW	WWW	≈ 7	16.1	71	88	0.6
TINA3-OO	OO	≈ 7	≈ 16.1	59 x 39	90	1.2

SINGLE LENSES



ROSE-MRK



ROSE-UV

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-R-XW-P	13.1	21.6 x 21.6	72	86	0.6
G2-LAURA-SS-WAS-P	13.1	21.6 x 21.6	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-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-2X8

Compatibility: Up to 3535 size high power LED packages

Beam type name*	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
-RS	14.6	21.6	8	TBA	TBA
-RS2	14.6	21.6	9	85	21.0
-M	14.6	21.6	TBA	TBA	TBA
-W	14.6	21.6	TBA	TBA	TBA
-O-WAS	14.6	21.6	TBA	TBA	TBA
-D	14.6	21.6	11	TBA	TBA
LEILA-FRAME-2X8	14.3	175 x 43			

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
-D **	14.6	21.6	12	90	10.0
-M **	14.6	21.6	25	92	4.8
-O-WAS **	14.6	21.6	Asymm.	84	3.8

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



G2-LAURA-O-WAS



LAURA-RS



LEILA

LEILA-G2



LEILA-2X8

SINGLE LENSES

IRIE

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

Name	H	D	Typ. FWHM	Typ. eff.	Typ. cd/lm
IRIE-A	5.1	14 x 14	Asymm.	94	1.5

IRENE (www.ledil.com/irene)

Compatibility: Up to 3535 size IR LED packages

Name	H	D	Typ. FWHM
IRENE-IR-4	14.3	21.6	67 + 67
IRENE-IR-8	14.3	21.6	32 + 32
IRENE-IR-12	14.3	21.6	25 + 25
IRENE-IR-16	14.3	21.6	17 + 17
IRENE-IR-25	14.3	21.6	16 + 16

IRIS (www.ledil.com/iris)

Compatibility: Up to 7070 size LED packages

Name	H	D	Typ. FWHM	Typ. eff.	Typ. cd/lm
IRIS-RS	≈29	38	5	93	66
IRIS-M	≈29	38	26	86	2.7
IRIS-O	≈29	38	39 x 28	84	1.9

BILLIE (www.ledil.com/billie)

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-ZOOM

PATENT PENDING

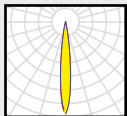
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TUNABLE
WHITE

ILONA (www.ledil.com/products)

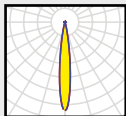
Compatibility:

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

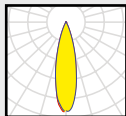
Name	D	H	Typ. FWHM	Typ. eff.	Typ.cd/lm
ILONA-RS	50	29.15	10	94	15.0
ILONA-SS	50	29.30	14	90	12.0
ILONA-M	50	29.66	25	92	4.5
ILONA-W	50	29.70	36	89	2.0
ILONA-WW	50	29.44	57	84	1.0
ILONA-ZOOM	52.5	33.22	13 to 48	82	9.5 - 1.0



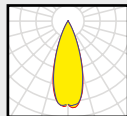
ILONA-RS



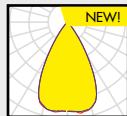
ILONA-SS



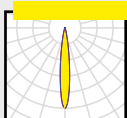
ILONA-M



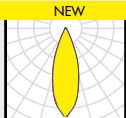
ILONA-W



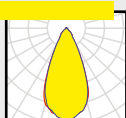
ILONA-WW



Spot | 13.5°



Half | 34°



Full | 46°

ILONA-ZOOM

SINGLE LENSES



SURI-RS

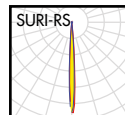


OLGA-S

SURI (www.ledil.com/products)

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

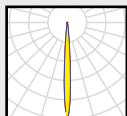
Name	D	H	Typ. FWHM	Typ. eff.	Typ.cd/lm
SURI-RS	38	24	6	91	65



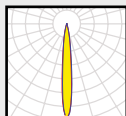
OLGA (www.ledil.com/products)

Compatibility: Up to 7070 size LED packages

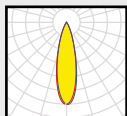
Name	D	H	Typ. FWHM	Typ. eff.	Typ.cd/lm
OLGA-RS	30 / 32	18.5 / 19.1	9	92	25.0
OLGA-S	30 / 32	18.5 / 19.1	11	87	13.6
OLGA-M	30 / 32	18.5 / 19.1	25	85	2.8
OLGA-W	30 / 32	18.5 / 19.1	40	89	2.2
OLGA-WAS	30 / 32	18.5 / 19.1	Asymm.	81	1.1
OLGA-O	30 / 32	18.5 / 19.1	10 + 40	90	5.0



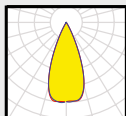
OLGA-RS



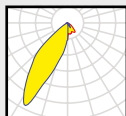
OLGA-S



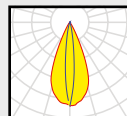
OLGA-M



OLGA-W



OLGA-WAS



OLGA-O

SINGLE LENSES



TITANIUM-M



EMILY-WWW



HEIDI-WR

TITANIUM (www.ledil.com/products)

Compatibility: Up to 3535 size LED packages

Name	Beam type	D	Typ. FWHM	Typ. Eff.
TITANIUM-O-SS	Smooth spot	26	9	84
TITANIUM-O-M	Medium	26	25	87
TITANIUM-O-W	Wide	26	65	71
TITANIUM-O-O	Oval	26	35 x 8	89

EMILY (www.ledil.com/emily)

Compatibility: Up to 5050 size LED packages

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

HEIDI (www.ledil.com/heidi)

Compatibility: Up to 3535 size LED packages

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

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



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	0.2



LOTTA-A

LOTTA (www.ledil.com/lotta)

Compatibility: Up to 3535 size LED packages

Name	Beam type	H	D	Typ. FWHM	Typ. eff.	Typ. cd/lm
LOTTA-A	Wide area lighting	3.6	19.6 x 15.4	168	88	0.3

EMMA (www.ledil.com/emma)

Compatibility: Up to 3535 size LED packages

Name	Beam type	H	D	Typ. FWHM	Typ. eff.	Typ. cd/lm
EMMA-360	Side emitter	5.7	9.9 x 9.9	170	92	0.4



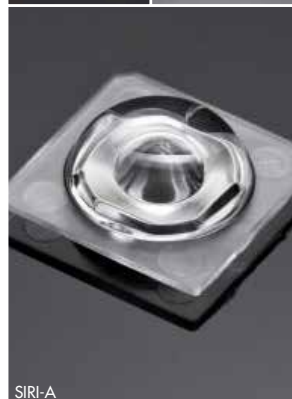
EMMA-A

STRADA-S-14

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-A

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)

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

Name	Beam type	H	D	Typ. FWHM	Typ. cd/lm
LEIA-S	Ultra-narrow spot	51.3	46.7	3	68.0
LEIA-S + LEIA-SUB-O	Narrow oval	53	46.7	50 + 5	5.0
Additional accessories					
LEIA-SUB-O	Narrow oval sublens				

HELENA (www.ledil.com/helena)

Compatibility: All LED types

Name	Beam type	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
HELENA-A	Medium	11	72.8	19	68	4.0
HELENA-B	Medium	11	72.8	24	74	2.1

EMERALD-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-MAXI-T



CRYSTAL-RS



SEANNA-A

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

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

RGBW MIXING



GABRIELLA



GERI-RZ

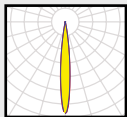


RGBX-M

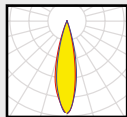
TESTED FOR
TUNABLE
WHITE

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

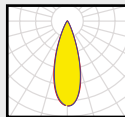
Compatibility: Optimized for 5050 sized and compatible with 7070 RGB LEDs



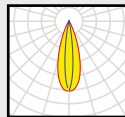
S



M



W



O

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

TESTED FOR
TUNABLE
WHITE

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
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

SINGLE LENSES

NEW!



*Ø70 mm silicone COB lens family
for high lumen output retail and
hospitality applications*

SAKURA

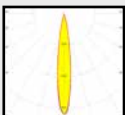
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SAKURA (www.ledil.com/products)

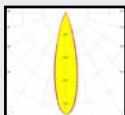
NEW!

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

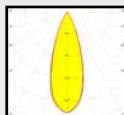
Name	D	H	Typ. FWHM	Typ. eff.	Typ.cd/Im
SAKURA-70-S	70	33.1	15	85	10.2
SAKURA-70-M	70	33.1	26	83	3.5
SAKURA-70-W	70	33.1	36	80	1.8



SAKURA-70-S



SAKURA-70-M



SAKURA-70-W

FWHM angles, efficiencies and cd/Im 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.

SINGLE LENSES

PATENT PENDING

Coming soon



YASMEEN

TESTED FOR
TUNABLE
WHITE

YASMEEN (www.ledil.com/products)

Coming soon

Compatibility:

Ø30 mm: Up to 7070 size LED packages

Ø50 mm: LES 6-10 mm

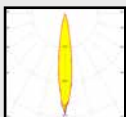
Ø70 mm: LES 10-14.5 mm

LEDiL HEKLA (with holder C)

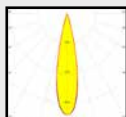
BJB connectors (with holder B)



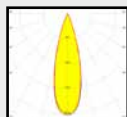
Name	D	H	Typ. FWHM	Typ. eff.	Typ.cd/lm
YASMEEN-30-RS	30	TBA	TBA	TBA	TBA
YASMEEN-50-S	50	30.5	15	85	8.0
YASMEEN-50-M	50	30.5	24	85	5.0
YASMEEN-50-W	50	30.5	36	85	2.0
YASMEEN-50-WW	50	30.5	60	85	1.0
YASMEEN-70-S	70	39.9	15	85	12.0
YASMEEN-70-M	70	39.9	24	85	5.0
YASMEEN-70-W	70	39.9	36	85	2.0
YASMEEN-70-WW	70	39.9	60	85	1.0



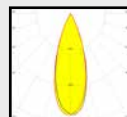
YASMEEN-30-RS



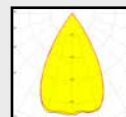
YASMEEN-50/70-S



YASMEEN-50/70-M



YASMEEN-50/70-W



YASMEEN-50/70-WW

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

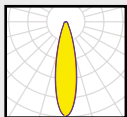
RONDA (www.ledil.com/ronda)

Compatibility

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

NN
KONNTAKT

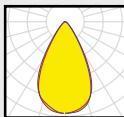
Name	Beam type	D (HLD A/B)	D (HLD C)	Typ. FWHM	Typ. Eff.	Typ. cd/Im
RONDA-S	Spot	69.9	53.9	27	85	1.8
RONDA-W	Wide	69.9	53.9	43	87	1.6
RONDA-WW	Extra wide	69.9	53.9	62	89	0.8
RONDA-WWW	Extra ² wide	69.9	53.9	90	87	0.5
RONDA-REC-60	Rectangular	69.9	53.9	58 + 58	89	0.8
RONDA-REC-90	Rectangular	69.9	53.9	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



S



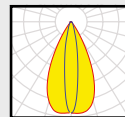
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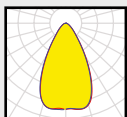
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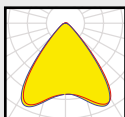
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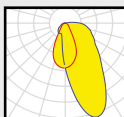
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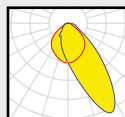
REC-60



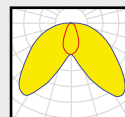
REC-90



WAS



WAS2



ZT45

PATENTED



GERMAN
DESIGN
AWARD
WINNER
2019



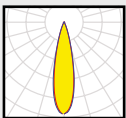
MOLLY

MOLLY (www.ledil.com/molly)

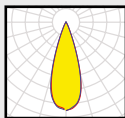
Compatibility:

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

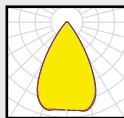
Name	Beam type	H	D	Typ. FWHM
MOLLY-S	Spot	24.8	69.8	25
MOLLY-M	Medium	23.6	69.8	37
MOLLY-W	Wide	22.1	69.8	60



S



M



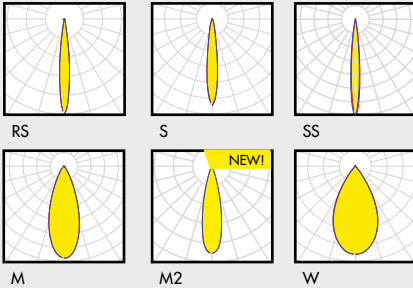
W

SINGLE LENSES

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 42)
Holder C: LEDiL HEKLA baseparts (page 43)
- CARMEN-70-SHD: CARMEN-RS and -SS



Name	Beam type	H	D
CARMEN-50/70-RS	Real spot	25.5 / 36.3	50 / 70
CARMEN-50/70-S	Spot	25.5 / 36.3	50 / 70
CARMEN-50/70-M	Medium	25.5 / 36.3	50 / 70
CARMEN-70-M2	Medium NEW!	36.3	70
CARMEN-50/70-W	Wide	25.5 / 36.3	50 / 70
CARMEN-50/70-RS-WHT	Real spot	25.5 / 36.3	50 / 70
CARMEN-50/70-S-WHT	Spot	25.5 / 36.3	50 / 70
CARMEN-50/70-M-WHT	Medium	25.5 / 36.3	50 / 70
CARMEN-50/70-W-WHT	Wide	25.5 / 36.3	50 / 70

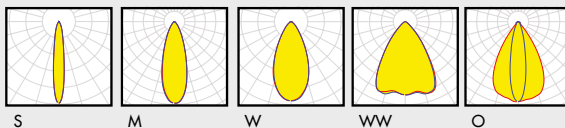
WINNIE (www.ledil.com/winniefamily)

Compatibility:

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



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



CARMEN-50



WINNIE-M



WINNIE-M-C

SINGLE LENSES



SAGA-HB-IP-WHT



ZORYA-MINI / ZORYA

SAGA (www.ledil.com/sagafamily)

Compatibility:

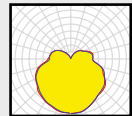
- COB's with LES sizes up to 14 mm
- 3rd party connectors from Bender+Wirth

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

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 42)
- ADAPTER-C: LEDIL HEKLA baseparts (page 43)
- 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

SATU (www.ledil.com/satu)

Compatibility: Up to 3535 size LED packages

Name	Beam type	LEDs	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/Im
SATU-S	Spot	3	8.9	21.8	19	90	4.9
SATU-M	Medium	3	8.9	21.8	27	91	2.9
SATU-W	Wide	3	8.9	21.8	33	86	1.9
SATU-O	Oval	3	8.9	21.8	42 x 22	86	2.5



SATU-O

CUTE (www.ledil.com/cute)

Compatibility: Up to 5050 size packages

CUTE-3

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



CUTE

GT3 (www.ledil.com/gt3)

Compatibility: Up to 3535 size LED packages

Name	Beam type	LEDs	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/Im
GT3-S	S	3	9	35	18	90	4.5
GT3-M	M	3	9	35	30	89	2.2
GT3-W	W	3	9	35	40	88	1.6
GT3-WW	WW	3	9	35	47	90	1.1



GT3-M

GT4 (www.ledil.com/gt4)

Compatibility: Up to 3535 size LED packages

Name	Beam type	LEDs	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/Im
GT4-S	S	4	9	35	21	90	3.3
GT4-M	M	4	9	35	28	88	2.5
GT4-W	W	4	9	35	38	89	1.7
GT4-WW	WW	4	9	35	53	90	1.1



GT4

MULTI-LENS ARRAYS

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



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-W	W	7	11.4	38	37	89
NIS83-MX-7-WW	WW	7	11.4	38	57	87



NIS83-MX-7-M

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-40-4-S	S	4	40	10.7	15	91	8.5
ANNA-40-5-S		5					
ANNA-40-6-S		6					
ANNA-40-7-S		7					
ANNA-40-4-M	M	4	40	10.7	22	88	3.7
ANNA-40-5-M		5					
ANNA-40-6-M		6					
ANNA-40-7-M		7					
ANNA-40-7-M2	M	7	40	10.7	25	87	3.2
ANNA-40-4-W	W	4	40	10.7	32	86	1.9
ANNA-40-5-W		5					
ANNA-40-6-W		6					
ANNA-40-7-W		7					
ANNA-40-7-WW	WW	6	40	12.5	64	90	0.9

ANNA-50

Name	Beam type	LED sources	D	H	Typ. FWHM	Typ. Eff.	Typ. cd/lm
ANNA-50-3-S	S	3	50	10.7	15	91	8.5
ANNA-50-4-S		4					
ANNA-50-5-S		5					
ANNA-50-6-S		6					
ANNA-50-7-S		7					
ANNA-50-3-M	M	3	50	10.7	22	88	3.7
ANNA-50-4-M		4					
ANNA-50-5-M		5					
ANNA-50-6-M		6					
ANNA-50-7-M		7					
ANNA-50-3-W	W	3	50	10.7	32	86	1.9
ANNA-50-4-W		4					
ANNA-50-5-W		5					
ANNA-50-6-W		6					
ANNA-50-7-W		7					



ANNA-50-5-S

MULTI-LENS ARRAYS

TUIJA (www.ledil.com/tuija)

Compatibility: Up to 3535 size LED packages

Name	Beam type	LEDs	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/Im
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



TUIJA

SANDRA (www.ledil.com/sandra)

Compatibility: Up to 3535 size LED packages

Name	Beam type	LEDs	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/Im
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



SANDRA-O

VIRPI (www.ledil.com/virpifamily)

Compatibility: Up to 3535 size LED packages

Name	Beam type	LEDs	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/Im
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



VIRPI-M

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



IDA16-WW

FLORENTINA-family



FLORENTINA-1 2X1 (www.ledil.com/florentina)

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

Name	Beam type	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
FLORENTINA-HLD-RS	Real spot	25.1	29 x 287	11	84	16.7
FLORENTINA-HLD-D	Diffused spot	25.1	29 x 287	13	84	9.6
FLORENTINA-HLD-SS	Smooth spot	25.1	29 x 287	21	85	5.9
FLORENTINA-HLD-M	Medium	25.1	29 x 287	29	81	3.3
FLORENTINA-HLD-W	Wide	25.1	29 x 287	42	84	1.8
FLORENTINA-HLD-WW	Extra Wide	25.1	29 x 287	50	78	1.1
FLORENTINA-HLD-BW	Batwing	25.1	29 x 287	60	81	1.0
FLORENTINA-HLD-O	Oval	25.1	29 x 287	35 + 12	83	5.1

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

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

Name	Beam type	H	D	Typ. FWHM	Typ. eff.	Typ. cd/lm
FLORENTINA-1-RS-60	Real spot	31.9	40 x 40	16	80	9.3
FLORENTINA-1-SS-60	Smooth spot	31.9	40 x 40	18	83	7
FLORENTINA-1-D-60	Diffused spot	31.9	40 x 40	21	77	5.1
FLORENTINA-1-M-60	Medium	31.9	40 x 40	31	78	2.6
FLORENTINA-1-W-60	Wide	31.9	40 x 40	44	71	1.3
FLORENTINA-1-O-60	Oval	31.9	40 x 40	44 + 20	72	2.8
FLORENTINA-1-MRK-S-60	Spot	31.9	40 x 40	26	68	2.3
FLORENTINA-1-MRK-M-60	Medium	31.9	40 x 40	40	75	1.4
FLORENTINA-1-MRK-W-60	Wide	31.9	40 x 40	57	70	0.7
FLORENTINA-1-MRK-BW	Batwing	31.9	40 x 40	60	63	0.7

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

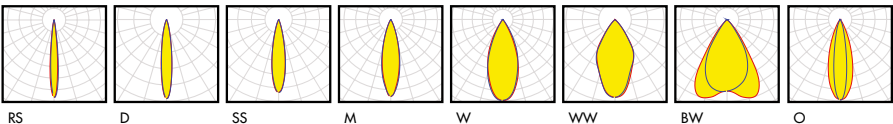
Compatibility: LEDiL standard ROSE lenses up to 5050 size and ROSE-MRK lenses up to 7070 size LED packages

Name	Beam type	H	D	Typ. FWHM	Typ. eff.	Typ. cd/lm
FLORENTINA-2X2-RS	Real spot	28.5	95.6 x 95.6	16	78	7.4
FLORENTINA-2X2-D	Diffused spot	28.5	95.6 x 95.6	19	77	5.5
FLORENTINA-2X2-SS	Smooth spot	28.5	95.6 x 95.6	20	79	5.4
FLORENTINA-2X2-M	Medium	28.5	95.6 x 95.6	30	75	2.4
FLORENTINA-2X2-W	Wide	28.5	95.6 x 95.6	49	70	1.0
FLORENTINA-2X2-O	Oval	28.5	95.6 x 95.6	44 + 18	70	2.5
FLORENTINA-2X2-MRK-S	Spot	28.5	95.6 x 95.6	28	68	2.1
FLORENTINA-2X2-MRK-M	Medium	28.5	95.6 x 95.6	42	74	1.4
FLORENTINA-2X2-MRK-W	Wide	28.5	95.6 x 95.6	53	94	0.7
FLORENTINA-2X2-MRK-BW	Batwing	28.5	95.6 x 95.6	64	63	0.7

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

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

Name	Beam type	H	D	Typ. FWHM	Typ. eff.	Typ. cd/lm
FLORENTINA-4X1-RS	Real spot	28.5	175.6 x 55.6	10	82	19.0
FLORENTINA-4X1-SS	Smooth spot	28.5	175.6 x 55.6	16	81	8.5
FLORENTINA-4X1-D	Diffused spot	28.5	175.6 x 55.6	18	77	6.6
FLORENTINA-4X1-M	Medium	28.5	175.6 x 55.6	30	75	2.4
FLORENTINA-4X1-W	Wide	28.5	175.6 x 55.6	36	69	1.5
FLORENTINA-4X1-O	Oval	28.5	175.6 x 55.6	44 + 15	74	3.0
FLORENTINA-4X1-MRK-S	Spot	28.5	175.6 x 55.6	28	77	2.1
FLORENTINA-4X1-MRK-M	Medium	28.5	175.6 x 55.6	39	75	1.5
FLORENTINA-4X1-MRK-W	Wide	28.5	175.6 x 55.6	49	73	0.8
FLORENTINA-4X1-MRK-BW	Batwing	28.5	175.6 x 55.6	64	63	0.7



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.

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-UP-D	Wide area lighting	Asymm.	90	0.3
FLORENCE-1R-CLIP-A	Clip for installation with 40 mm wide boards			
FLORENCE-1R-CLIP-B	Clip for installation on a profile			
FLORENCE-1R-CLIP-C	Clip for fastening of FLORENCE-1R optics and 24 mm wide Zhaga modules			

FLORENCE-1R-GC

Compatibility: Mid-power LEDs up to 5630 package size

Name	Beam type	Typ. FWHM	Typ. eff.	Typ. cd/lm
FLORENCE-1R-GC-Z60	Wide	70	94	0.7
FLORENCE-1R-GC-Z90	Rectangular	90	94	0.5
FLORENCE-1R-GC-ZT25	Asymmetric	Asymm.	92	0.8

FLORENCE (3R)

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

Name	Beam type	Typ. FWHM	Typ. eff.	Typ. cd/lm
FLORENCE-Z30	Medium	29	94	2.2
FLORENCE-Z60	Wide	58	88	0.8
FLORENCE-Z90	Extra Wide	92	86	0.4
FLORENCE-Z90-B	Extra Wide	92	90	0.4
FLORENCE-O	Oval	84 + 35	89	0.7
FLORENCE-ZT25	Asymmetric	Asymm.	94	0.6
FLORENCE-ZT25-S	Single-sided asymmetric oval	Asymm.	94	0.6
FLORENCE-3R-SHD-BLK	Black shade to obtain lower UGR			
FLORENCE-3R-SHD-GR	Grey shade to obtain lower UGR			
FLORENCE-3R-SHD-WHT	White shade			

FLORENCE-3R-IP

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

Name	Beam type	Typ. FWHM	Typ. eff.	Typ. cd/lm
FLORENCE-3R-IP-Z60	Wide	60	86	0.7
FLORENCE-3R-IP-Z90	Extra Wide	90	88	0.4
FLORENCE-3R-IP-O	Oval	84 + 40	86	0.7

FLORENCE2

Compatibility: All Zhaga 3R PCBs including 2ft PCBs

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

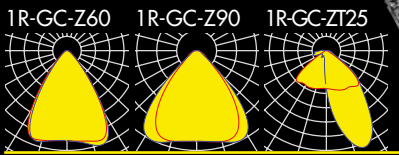
FWHM angles, efficiencies and cd/lm values contained herein are typical values. Actual measured values depend of the specific LED/optic combination. Go to www.ledil.com for LED specific values and product datasheets.

FLORENCE-family

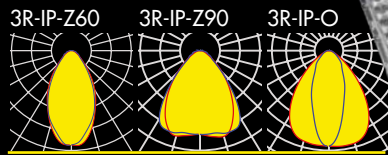
FLORENCE-1R



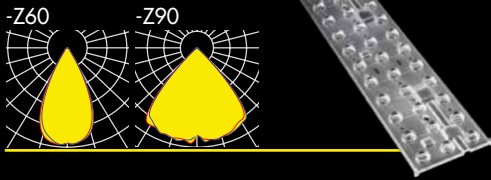
FLORENCE-1R-GC



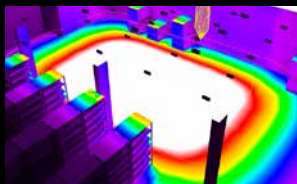
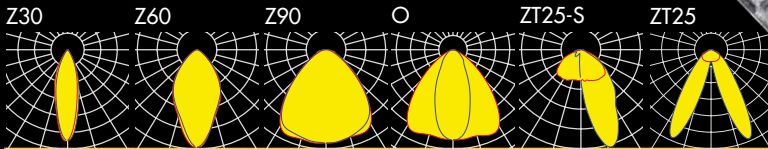
FLORENCE-3R-IP



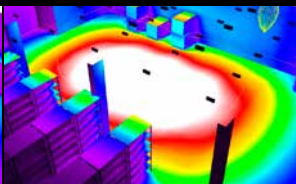
FLORENCE2



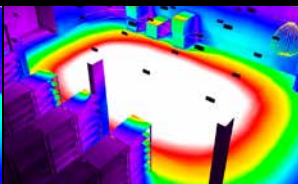
FLORENCE (3R)



(3R) Z30 ~7 meters



(3R) Z60 ~5 meters



(3R) Z90 ~3.5 meters

LINEAR LENSES



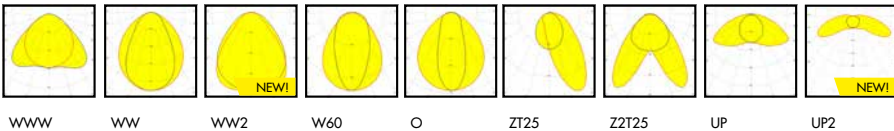
LINDA-family

LINDA-24

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

Name	Beam type	H	D *	Typ. FWHM	Typ. eff.	Typ. cd/lm
LINDA-WWW	Extra wide	6.3	26 x 1140	110 + 100	90	0.3
LINDA-WW	Wide	5.3	26 x 1140	65 + 100	90	0.4
LINDA-WW2	Wide	5.3	26 x 1140	97 + 87	89	0.4
LINDA-W60	Wide	6.3	26 x 1140	60 + 90	88	0.4
LINDA-O	Oval	4.9	26 x 1140	40 + 100	88	0.5
LINDA-ZT25	Asymmetric	6.5	26 x 1140	Asymm.	89	0.5
LINDA-ZZT25	Double asymmetric	5.3	26 x 1140	Asymm.	89	0.4
LINDA-UP	Wide-area lighting	7.8	26 x 1140	105 + 145	88	0.2
LINDA-UP2	Wide-area lighting	11.4	26 x 1140	TBA	TBA	TBA

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



WWW

WW

WW2

W60

O

ZT25

ZZT25

UP

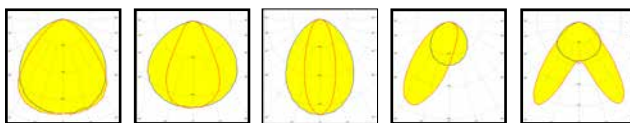
UP2

LINDA-40

COMING

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

Name	Beam type	H	D	Typ. FWHM	Typ. Eff.
LINDA-40-WW	Wide	9	40 x 1140	90	88
LINDA-40-W	Wide	9	40 x 1140	60	84
LINDA-40-O	Oval	9	40 x 1140	86 + 40	87
LINDA-40-ZT25	Asymmetric	9	40 x 1140	Asymm.	83
LINDA-40-ZZT25	Double asymmetric	9	40 x 1140	Asymm.	84



WW

W

O

ZT25

ZZT25

LINEAR LENSES



CLAUDIA



VIOLET



VANESSA-B-O



DAHLIA-TL110

CLAUDIA

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

Name	H	D	Typ. FWHM	Typ. Eff.
CLAUDIA-60	9.6	279.3 x 29.3	60	94
CLAUDIA-90	8.1	279.3 x 29.3	81	94
CLAUDIA-Z2T25	13.6	279.3 x 29.3	Asymm.	91
CLAUDIA-UP	9.6	279.3 x 29.3	115	94
CLAUDIA-ON	9.6	279.3 x 29.3	20	91

VIOLET

NEW

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

Name	H	D	Typ. FWHM	Typ. cd /lm
VIOLET	8.8	41.6 x 294.8	40	1.4

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

Compatibility: Typical horticultural 3535 HP LEDs

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

VANESSA (www.ledil.com/vanessafamily)

Compatibility: Up to 3535 size LED packages

Name	Beam type	LEDs	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
VANESSA-S	Spot	12	8	295 x 16	17	90	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

LINEAR LENSES

TESTED FOR
TUNABLE
WHITE

DAISY (www.ledil.com/daisy)

NEW!

Compatibility:

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

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

Lenses: clear or diffused

DAISY-28X1

Name	H	D	Typ. FWHM	Typ. Eff.	
DAISY-28X1-W	20.2	1140 x 40	50	95	
DAISY-28X1-WW	20.2	1140 x 40	90	95	
DAISY-28X1-W2	NEW!	20.2	1140 x 40	65	89

DAISY-8X1

NEW!

Name	H	D	Typ. FWHM	Typ. Eff.
DAISY-8X1-W	0.8in	12in x 1.5in	50	89
DAISY-8X1-WW	0.8in	12in x 1.5in	90	83

DAISY-7X1

Name	H	D	Typ. FWHM	Typ. Eff.	
DAISY-7X1-W	20.3	280 x 40	56	90	
DAISY-7X1-WW	20.3	280 x 40	77	88	
DAISY-7X1-W2	20.3	280 x 40	64	89	
DAISY-7X1-ZT25	NEW!	20.3	280 x 40	TBA	TBA

DAISY-4X1

Name	H	D	Typ. FWHM	Typ. Eff.
DAISY-4X1-W	20.2	182 x 40	50	95
DAISY-4X1-WW	20.2	182 x 40	90	95

DAISY-2X2

Name	H	D	Typ. FWHM	Typ. Eff.
DAISY-2X2-W	21	80 x 80	55	90
DAISY-2X2-WW	21	80 x 80	77	88

DAISY-MINI

NEW!

Name	H	D	Typ. FWHM	Typ. Eff.
DAISY-MINI-M	13.3	279.5 x 21	33	82
DAISY-MINI-W	13.3	279.5 x 21	53	86
DAISY-MINI-WW	13.3	279.5 x 21	66	84

LILIAN (www.ledil.com/products)

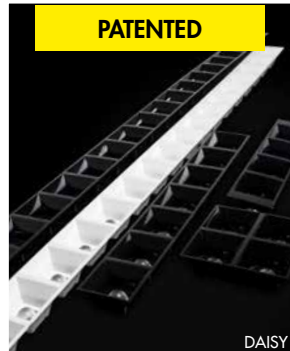
Compatibility: Optimized for up to 20 mm wide high-power and CSP PCBs and for 1.0 mm thick profiles

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

SHELLY (www.ledil.com/shelly)

Compatibility: Up to 3535 size LED packages

Name	H	D	Typ. FWHM	Typ. Eff.
SHELLY-T-6X1-N	7	119.8 x 19.6	Asymm.	94
SHELLY-T-6X1-WAS	7.6	119.8 x 19.6	Asymm.	94



PATENTED

DAISY



NEW!

DAISY-MINI



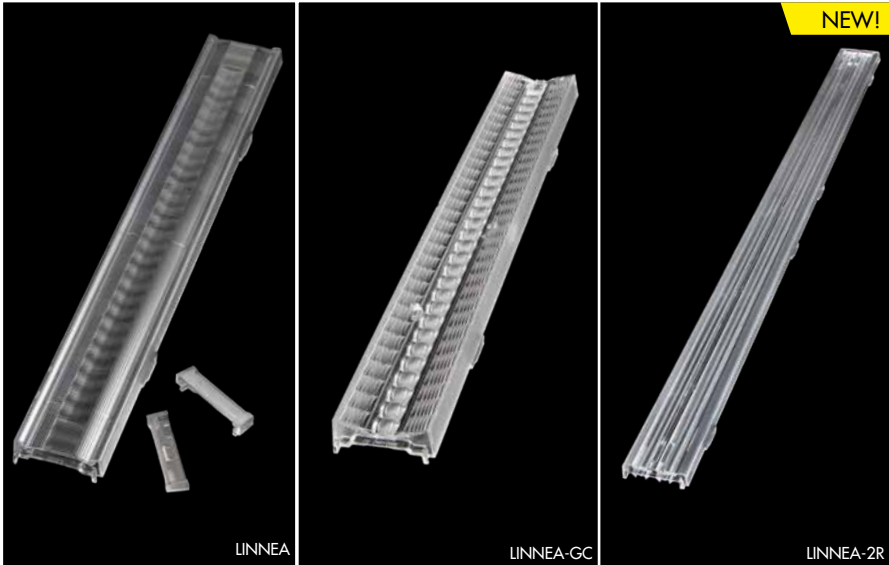
LILIAN



SHELLY-T-6X1-WAS

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.

LINEAR LENSES



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-Z2T25 *	10.3	285 x 40	Asymm.	87
LINNEA-ZT25 *	9.5	285 x 40	Asymm.	80
LINNEA-UP	10.3	285 x 40	Asymm.	79

* B-version available

** Optical variant

LINNEA-GC

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

Compatible with same luminaires as basic LINNEA but requires a new PCB.

Name	H	D	Typ. FWHM	Typ. Eff.
LINNEA-GC-90	9.5	285 x 40	90	85
LINNEA-GC-60	12.2	285 x 40	68 + 60	93
LINNEA-GC-O	12.8	285 x 40	736 + 43	91

LINNEA-2R

NEW!

Compatibility: Optimized for Signify Fortimo Edge 2-row board

Name	H	D	Typ. FWHM	Typ. Eff.
LINNEA-2R-O	8.6	567 x 40	90 + 30	94

REFLECTORS



ALISE-50, -70, -110

NEW!

Ø50/70/110 mm aluminum reflector family
for down- and track lights

Compatibility

Optimized:

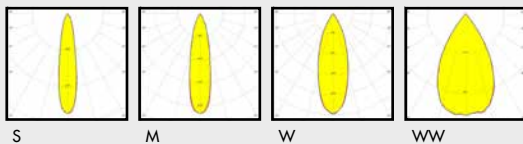
Ø50 mm: LES 10 mm

Ø70 mm: LES 14.5 mm

Ø110 mm: LES 22 mm

Optimized for Zhaga connectors

e.g. Lumawise LED holders Z35, Z45, Z50



Name	Beam	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
ALISE-50/70/110-S	Spot	25 / 42 / 65	50 / 70 / 110	15	92	5.3
ALISE-50/70/110-M	Medium	25 / 42 / 65	50 / 70 / 110	24	92	4.1
ALISE-50/70/110-W	Wide	25 / 42 / 65	50 / 70 / 110	36	92	2.3
ALISE-50/70/110-WW	Extra wide	25 / 42 / 65	50 / 70 / 110	60	91	1.0

ELISE-50, -70, -110

NEW!

Compatibility

Optimized:

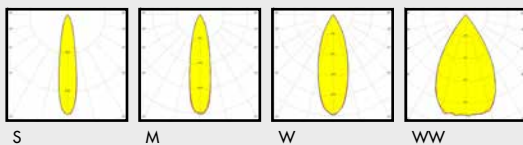
Ø50 mm: LES 10 mm

Ø70 mm: LES 14.5 mm

Ø110 mm: LES 22 mm

Optimized for Lumawise LED

holders Z35L, Z45L, Z50L



Name	Beam	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
ELISE-50/70/110-S	Spot	25 / 42 / 65	50 / 70 / 110	15	88	4.1
ELISE-50/70/110-M	Medium	25 / 42 / 65	50 / 70 / 110	24	88	3.2
ELISE-50/70/110-W	Wide	25 / 42 / 65	50 / 70 / 110	36	88	2.0
ELISE-50/70/110-WW	Extra wide	25 / 42 / 65	50 / 70 / 110	60	86	0.9

Additional accessories compatible with ALISE and ELISE

ALISE-50-RING	Mounting ring
ALISE-70-RING	Mounting ring
ALISE-110-RING	Mounting ring
ALISE-110-CL	Clear sublens
ALISE-110-DL	Diffused sublens

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

NEW!



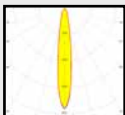
ELLA (www.ledil.com/ella)

NEW!

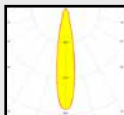
Compatibility: Optimized for 4–8 mm LES size COBs

When used with OLGA holder compatible with up to 7070 size LED packages

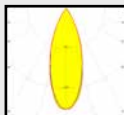
Name	D	H	Typ. FWHM	Typ. eff.	Typ.cd/lm
ELLA-30-S	30 / 32*	17.2 / 20*	15°	TBA	TBA
ELLA-30-M	30 / 32*	17.2 / 20*	28°	90	4.5
ELLA-30-W	30 / 32*	17.2 / 20*	38°	88	2.4
ELLA-30-WW	30 / 32*	17.2 / 20*	55°	90	1.3



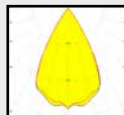
ELLA-30-S



ELLA-30-M



ELLA-30-W



ELLA-30-WW

* With holder

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

MINNIE-LT



MINNIE with holder

BOOM (www.ledil.com/boom)

Compatibility: Up to 7070 size LED packages

Name	H	D	Typ. FWHM	Typ. cd/lm
BOOM-S	14	22.2	18	3.6
BOOM-M	14	22.2	32	1.9
BOOM-W	14	22.2	55	1.1
BOOM-XW	14	22.2	70	0.67

BOOM-XW



BRIDGET (www.ledil.com/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-WW



VENLA (www.ledil.com/venla)

Compatibility: Up to 7070 size LED packages

Name	H	D	Typ. FWHM	Typ. eff.
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-WAS-RZ



LEDiL System Reflectors

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



BROOKE-G2 (www.ledil.com/brooke-g2)

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



Name	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
BROOKE-G2-S	19.7	45	18	92	4.3
BROOKE-G2-M	19.7	45	28	92	2.0
BROOKE-G2-W	19.7	45	47	92	1.0

Additional accessories

BARBARA-RZ-LENS Color mixing sublens
LEDiL HEKLA (Check compatibility on page 43 or 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 43)

Compatibility: COBs with LES size up to 14 mm



Name	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
MIRELLA-G2-S	24.8	49.9	15	90	6.6
MIRELLA-G2-M	24.8	49.9	20	90	3.4
MIRELLA-G2-W	24.8	49.9	31	91	1.9
MIRELLA-G2-WW	24.8	49.9	50	85	1.3

Additional accessories

MIRELLA-CL	Clear lens
MIRELLA-DL	Diffused lens
MIRELLA-RZL	Colour mixing lens
LEDiL HEKLA (Check compatibility on page 43 or www.ledil.com)	

TESTED FOR

TUNABLE WHITE

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



MIRELLA-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 42)

Name	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
MIRELLA-50-S-PF	24	49.9	17	88	5.4
MIRELLA-50-M-PF	24	49.9	32	88	1.9
MIRELLA-50-W-PF	24	49.9	43	87	1.3
MIRELLA-50-XW-PF	24	49.9	78	92	0.6

Additional accessories

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



MIRELLA-PF

BARBARA-family

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

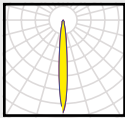
BARBARA-G2

Compatible with LEDiL HEKLA baseparts (page 43)

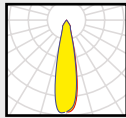
Compatibility: COBs with LES size up to 18 mm



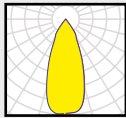
Name	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/Im
BARBARA-G2-S	41.9	70	13	TBA	TBA
BARBARA-G2-M	41.9	70	25	TBA	TBA
BARBARA-G2-W	41.9	70	40	TBA	TBA
BARBARA-G2-WW	41.9	70	60	TBA	TBA



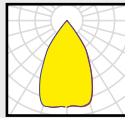
G2-S



G2-M



G2-W



G2-WW

Additional accessories

BARBARA-RZ-LENS Color mixing sublens

LEDiL HEKLA (Check compatibility on page 43 or www.ledil.com)

TESTED FOR

TUNABLE Additional BARBARA-RZLENS colour mixing sublens needed for tunable lighting
WHITE 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 42)

Name	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/Im
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 42)

Name	Beam type	D	H	Typ. FWHM	Typ. Eff.	Typ. cd/lm
LENA-S	S	111	86	11	85	7.6
LENA-SS	SS	111	86	18	82	5.0
LENA-M	M	111	86	22	83	2.5
LENA-W	W	111	86	46	82	1.3
LENA-WAS	WAS	111	37	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 42)

Name	Beam type	D	H	Typ. FWHM	Typ. Eff.	Typ. cd/lm
LENINA-S	S	74	46	19	88	4.5
LENINA-M	M	74	46	31	87	2.1
LENINA-W	W	74	46	53	87	1.1
LENINA-XW	XW	74	46	73	89	0.6

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 42)

Name	Beam type	D	H	Typ. FWHM	Typ. Eff.	Typ. cd/1m
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 42)
- 3rd party baseparts compatible with B-interface (page 42)

Name	Beam type	D	H	Typ. FWHM	Typ. Eff.	Typ. cd/1m
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 42)
- 3rd party baseparts compatible with B-interface (page 42)

Name	Beam type	D	H	Typ. FWHM	Typ. Eff.	Typ. cd/1m
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.	97.2x83.4	84	Asymm.	92	1.4

ANGE-RZ Color mixing sublens

ANGELETTE-LENS Clear lens for symmetrical ANGELETTE reflectors

ANGELETTE-DL Diffusing lens for symmetrical ANGELETTE reflectors

Name	Beam type	D	H	Typ. FWHM	Typ. Eff.	Typ. cd/1m
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

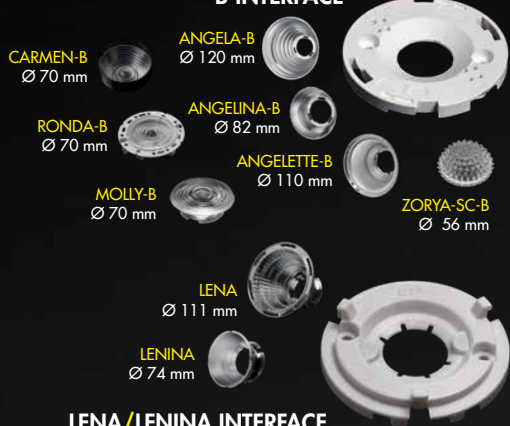


BASEPARTS

A-INTERFACE



B-INTERFACE



PF-INTERFACE

LENA/LENINA INTERFACE

A-INTERFACE

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

B-INTERFACE

C15743_XTM-ADAPTER-50-B **

LENA/LENINA INTERFACE

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

PF-INTERFACE

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

A-INTERFACE (3RD PARTY)

TE: Z50 STD PROFILE + TE OPTIC CLIP Z50 TYPE1
 Osram PrevaLED Core Z 50mm + TE OPTIC CLIP Z50 TYPE1
 Osram PrevaLED Core AC + TE OPTIC CLIP Z50 TYPE1
 Philips/Signify Fortimo SLM holder + TE OPTIC CLIP Z50 TYPE1
 IDEAL: Chip-Lok + 50-2100AN

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



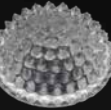
YASMEEN
Ø 70 mm
Ø 50 mm



BROOKE-G2
Ø 45 mm



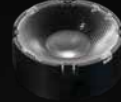
CARMEN-C
Ø 70 mm
Ø 50 mm



ZORYA-SC-C
Ø 55 mm



RONDA-C
Ø 54 mm



ILONA
Ø 50 mm
ILONA-ZOOM
Ø 52.5 mm

WINNIE-C
Ø 50 mm



- **COMPATIBILITY:** One interface for a variety of LEDiL optics and COBs
- **USABILITY:** Easy to use twist and lock mechanism for optics assembly and replacement with pre-fix for COBs
- **DURABILITY:** Long lasting materials that can handle high temperatures without losing grip

HEKLA Connectors and sockets

Rated voltage: 150 V
Rated current: 3 A

Connectors	LED Package
HEKLA-C-G2	13.5 x 13.5 mm
HEKLA-D-G2	15.85 x 15.85 mm
HEKLA-H-G2	19 x 16 mm
HEKLA-I-G2	19 x 19 mm
HEKLA-J-G2	13.35 x 13.35 mm

Sockets	LED Package
HEKLA-A	12.5 x 12.5 mm
HEKLA-B	17.85 x 17.85 mm
HEKLA-C	13.5 x 13.5 mm
HEKLA-D	15.85 x 15.85 mm
HEKLA-E	15.8 x 15.8 mm
HEKLA-SOCKET-F	
HEKLA-G	15 x 12 mm
HEKLA-H	19 x 16 mm
HEKLA-I	19 x 19 mm
HEKLA-J	13.35 x 13.35 mm
HEKLA-SOCKET-K	
XTM-ADAPTER-50-B & -C	

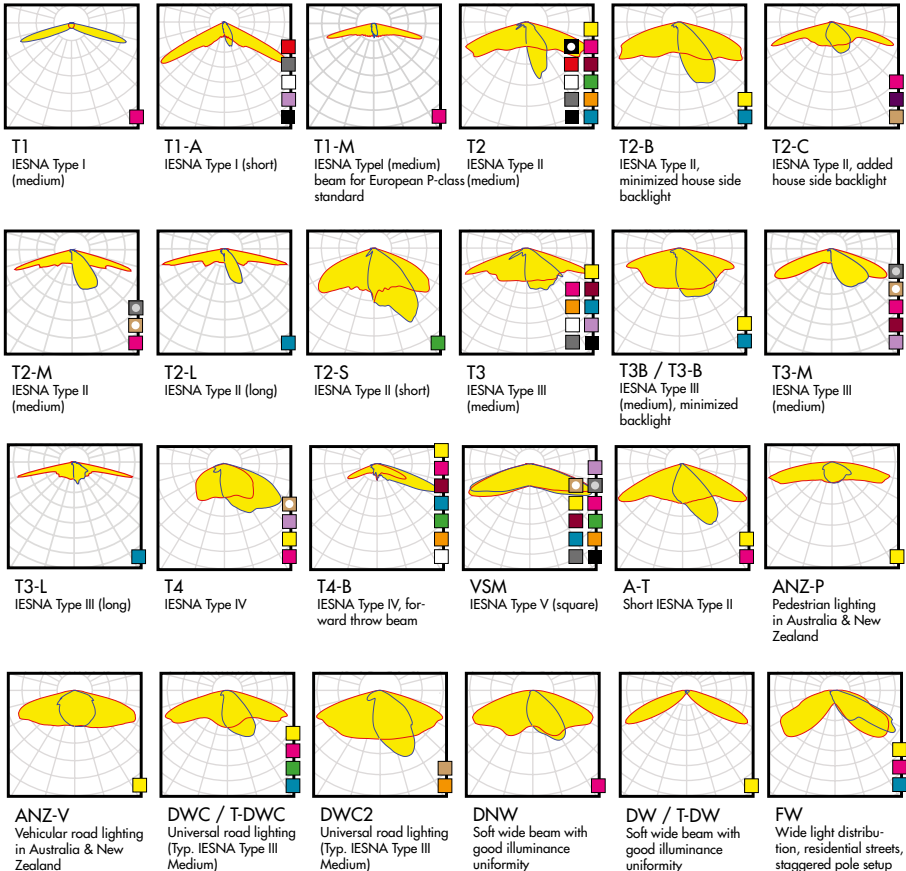
Check the LED compatibility at www.ledil.com/hekla

STREET & AREA LIGHTING

PATENTED

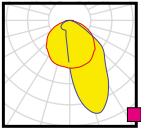
MODULAR SOLUTIONS

- | | | | | |
|---|---|--|---|---|
|  STRADA-SQ |  SITARA |  STRADA-IP-2X6 |  STRADA-IP-8MX |  STRADELLA-8 |
|  STRADA-2X2 |  STRADA-2X2MX |  STRADA-IP-16MX |  STRADELLA-8-CSP |  STRADELLA-IP-28 |
|  STRADA-2X2CSP |  STRADA-2X2MXS |  STRADELLA |  STRADELLA-16 |  STRADELLA-IP-64 |

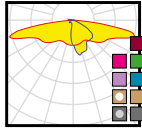


FWHM angles, efficiencies and cd/lm values contained herein are typical values. Actual measured values depend of the specific LED/optic combination. Go to www.ledil.com for LED specific values and product datasheets.

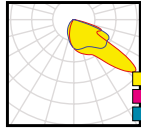
STREET & AREA LIGHTING



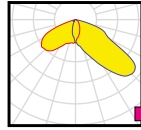
NHS
narrow beam, minimal house side light



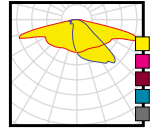
SCL
Type II/III (long), ideal for pedestrian paths and residential roads



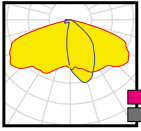
PX
Double asymm., pedestrian crossings, right side traffic



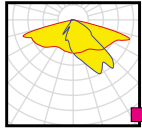
PXL
Double asymm., pedestrian crossings, left side traffic



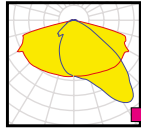
ME
Excellent longitudinal luminance uniformity fulfilling EN13201 M-class requirements



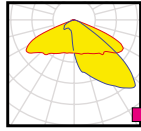
ME-N
Designed for high poles, fulfilling EN13201 M-class requirements



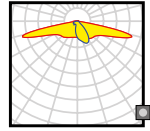
ME-WIDE1
Fulfilling EN13201 M-class requirements, added house side backlight



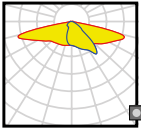
ME-WIDE2
For staggered pole setups fulfilling EN13201 M-class requirements



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



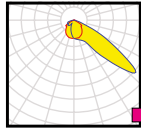
LN1
For EN13201 M-class requirements with high poles or where road width \leq the pole height



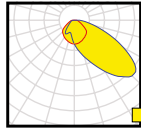
LM1
For EN13201 M-class requirements where road width \geq the pole height



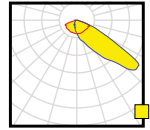
LW1
For EN13201 M-class requirements where road width $>$ the pole height



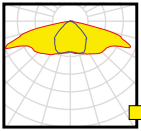
FN
Narrow forward throw beam for area lighting



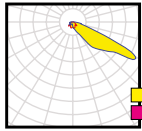
FT
Forward throw beam for area lighting



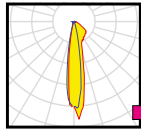
FS
Forward throw beam for area lighting



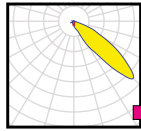
FS2
For symmetrical tunnel lighting and parking garages, ideal for catenary street lighting



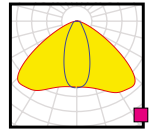
FS3
Forward throw beam optimized for European tunnels, extremely efficient lighting with counter-beam method



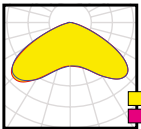
FR
Asymmetric spot light beam for floodlighting railway tracks according to Russian normative



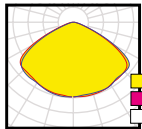
TF
Narrow forward throw beam optimized for European tunnels



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



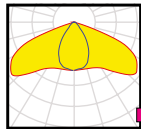
C
For area and street lighting such as parks and pedestrian walkways



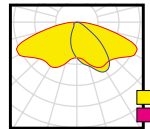
CY
For canopy lighting with batwing light distribution, suitable for symmetrical tunnel lighting



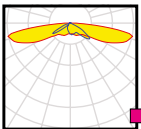
CAT
Catenary street light beam optimized for EN13201 M-classes



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

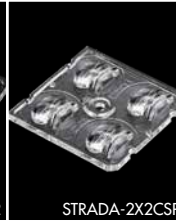


DN / T-DN
For area lighting with shorter illumination distances



XW
Wide beam

STREET & AREA LIGHTING



STRADA single lenses

Compatibility: Up to 3535 sized LED packages

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

STRADA-SQ

Compatibility: Up to 7070 sized LED packages

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

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

STREET & AREA LIGHTING

STRADA-2X2 modules

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.
STRADA-2X2-LW1	NEW! 50 x 50	7.2	94	Asymm.
STRADA-2X2-T1-M	NEW! 50 x 50	6.5	94	Asymm.

* Available in silicone

** Available also in PC

STRADA-2X2CSP

Compatibility: Designed for cost driven CSP (chip scale package) LEDs, and optimized for high-power CSPs.

Can be used with a cluster of 4 CSP LEDs under one optic.

Name	Height	Dimensions	Typ. eff.	Typ. FWHM
STRADA-2X2CSP-SCL	7.49	50 x 50	94	Asymm.
STRADA-2X2CSP-VSM	6.95	50 x 50	94	Asymm.
STRADA-2X2CSP-T2	7.7	50 x 50	94	Asymm.
STRADA-2X2CSP-T3	6.5	50 x 50	94	Asymm.
STRADA-2X2CSP-T4-B	6.84	50 x 50	94	Asymm.
STRADA-2X2CSP-ME	6.6	50 x 50	93	Asymm.

STRADA-2X2-5050

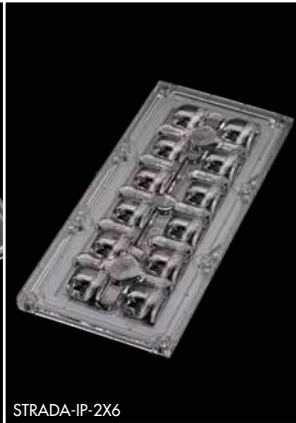
Compatibility: Flat 5050 size LED packages

Name	Height	Dimensions	Typ. eff.	Typ. FWHM
STRADA-2X2-5050-T2-C	7	50 x 50	85	Asymm.
STRADA-2X2-5050-T2-C2	7.4	50 x 50	TBA	Asymm.
STRADA-2X2-5050-T2-M	NEW! 7.2	50 x 50	79	73 + 152
STRADA-2X2-5050-T3-M	7.3	50 x 50	92	Asymm.

STREET & AREA LIGHTING



SITARA



STRADA-IP-2X6



STRADA-IP-8MX



SITARA modules

Compatibility: Optimized for 5050 size flat SMD LEDs

Name	LEDs	H	D	Typ. Eff.
SITARA-2X2-T2	4	9.3	50 x 50	78
SITARA-T1-A	1	5.9	18 x 18	88
SITARA-T2	1	7.7	18 x 18	83
SITARA-HB-S	1	5.0	18 x 18	TBA
SITARA-HB-M	1	5.7	18 x 18	94

STRADA-IP-2X6 modules

Compatibility: Up to 5050 size LED packages

Name	Dimensions	Height	Typ. eff.	Typ. FWHM
STRADA-IP-2X6-T2 *	173 x 71.4	9.2	94	Asymm.
STRADA-IP-2X6-T2-B *	173 x 71.4	12.03	95	Asymm.
STRADA-IP-2X6-T2-B-90	173 x 71.4	12.03	94	Asymm.
STRADA-IP-2X6-T2-C-90 *	173 x 71.4	9.0	94	Asymm.
STRADA-IP-2X6-T2-L	173 x 71.4	13	93	Asymm.
STRADA-IP-2X6-T3 *	173 x 71.4	8.5	94	Asymm.
STRADA-IP-2X6-T3-B	173 x 71.4	12.75	94	Asymm.
STRADA-IP-2X6-T3-B-90	173 x 71.4	12.75	94	Asymm.
STRADA-IP-2X6-T3-L *	173 x 71.4	13	94	Asymm.
STRADA-IP-2X6-T4-B *	173 x 71.4	10.57	94	Asymm.
STRADA-IP-2X6-DWC *	173 x 71.4	7.9	93	Asymm.
STRADA-IP-2X6-DWC-90 *	173 x 71.4	8.98	94	Asymm.
STRADA-IP-2X6-ME *	173 x 71.4	8.4	94	Asymm.
STRADA-IP-2X6-VSM *	173 x 71.4	9	94	Asymm.
STRADA-IP-2X6-SCL *	173 x 71.4	9.6	94	Asymm.
STRADA-IP-2X6-FW	173 x 71.4	13.1	92	Asymm.
STRADA-IP-2X6-PX	173 x 71.4	9.6	94	Asymm.

* Available also in PC

STRADA-IP-8MX modules

Compatibility: Optimized for flat 5050 packages (without dome)

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

STREET & AREA LIGHTING



STRADA-IP-16MX modules

Compatibility: CSP LEDs

Name	Dimensions	Height	Typ. Eff.
STRADA-IP-16MX-T2-M	90 x 90	8.6	90
STRADA-IP-16MX-T3-M	90 x 90	8.6	90
STRADA-IP-16MX-VSM	90 x 90	8.6	90
STRADA-IP-16MX-T4	90 x 90	8.6	94
STRADA-IP-16MX-SCL	90 x 90	8.6	93

STRADA-2X2MX modules

Compatibility: Up to 7070 size LED packages

Name	Dimensions	Height	Typ. eff.	Typ. FWHM
STRADA-2X2MX-8-DWC	90 x 90	11.3	94	Asymm.
STRADA-2X2MX-8-VSM	90 x 90	13.4	94	Asymm.
STRADA-2X2MX-8-SCL	90 x 90	13.17	94	Asymm.
STRADA-2X2MX-8-T4-B	90 x 90	13.17	94	Asymm.
STRADA-2X2MX-8-T2	90 x 90	12.57	94	Asymm.
STRADA-2X2MX-8-T2-S	90 x 90	11.13	94	Asymm.

Silicone STRADA-2X2MXS modules

Compatibility: Up to 7070 size LED packages

Name	Dimensions	Height	Typ. eff.	Typ. FWHM
STRADA-2X2MXS-DWC2	90 x 90	14	93	Asymm.
STRADA-2X2MXS-VSM	90 x 90	13	92	Asymm.
STRADA-2X2MXS-T2	90 x 90	12.57	91	Asymm.
STRADA-2X2MXS-T3	90 x 90	14.83	89	Asymm.
STRADA-2X2MXS-T4-B	90 x 90	14.2	88	Asymm.

STRADA-6X1 modules

Compatibility: Up to 3535 size LED packages

Name	LEDs	H	D	Typ. Eff.
STRADA-T-6X1-ME	6	8,2	119.8 x 25.2	93
STRADA-T-6X1-DNW	6	5,6	119.8 x 25.2	93
STRADA-T-6X1-DWC	6	5,5	119.8 x 25.2	94

TATIANA (www.ledil.com/tatiana)

Compatibility: Up to 3535 size LED packages

Name	LEDs	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
TATIANA-1X4-B	4	7.7	102 x 25	144 + 62	94	0.54



STREET & AREA LIGHTING



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

STRADELLA

Name	Beam type	LEDs	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/Im
STRADELLA-CY	Wide area lighting	1	4.73	13.9 x 13.9	115	94	0.3
STRADELLA-T2	Asymmetric	1	4.96	13.9 x 13.9	Asymm	94	0.8
STRADELLA-T3	Asymmetric	1	4.96	13.9 x 13.9	Asymm	94	0.7
STRADELLA-T4-B	Asymmetric	1	5.16	13.9 x 13.9	Asymm.	93	0.6
STRADELLA-T1-A	Asymmetric	1	5.32	13.9 x 13.9	Asymm.	94	0.9
STRADELLA-HB-S *	Spot	1	7.5	13.9 x 13.9	27	95	1.5
STRADELLA-HB-M *	Medium	1	5.7	13.9 x 13.9	58	94	0.6
STRADELLA-HB-W *	Wide	1	7.12	13.9 x 13.9	87	94	0.5

* Available also in PC

STRADELLA-8-CSP

NEW!

Name	Beam type	LEDs	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/Im
STRADELLA-8-HV-CSP-LN1	Street	8	4.4	50 x 50	Asymm.	96	1.0
STRADELLA-8-HV-CSP-LM1	Street	8	4.8	50 x 50	Asymm.	97	0.9
STRADELLA-8-HV-CSP-LW1	Street	8	4.9	50 x 50	Asymm.	96	0.9
STRADELLA-8-HV-CSP-VSM	Street	8	4.9	50 x 50	Asymm.	97	0.6
STRADELLA-8-HV-CSP-SCL	Street	8	4.9	50 x 50	Asymm.	TBA	TBA
STRADELLA-8-HV-CSP-T2-M	Street	8	4.9	50 x 50	Asymm.	97	1.4
STRADELLA-8-HV-CSP-T3-M	Street	8	4.9	50 x 50	Asymm.	97	1.2

STRADELLA-8-5050

NEW!

Name	Beam type	LEDs	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/Im
STRADELLA-8-5050-HB-W-PC	Wide	8	5	50 x 50	89	88	0.5

FWHM angles, efficiencies and cd/Im 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.

STREET & AREA LIGHTING

STRADELLA-8

Name	Beam type	LEDs	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/Im
STRADELLA-8-HV-ME	Asymmetric	8	5.5	50 x 50	Asymm.	94	0.7
STRADELLA-8-HV-ME-N	Asymmetric	8	5.96	50 x 50	Asymm.	92	0.7
STRADELLA-8-HV-CY	Wide area lighting	8	4.91	50 x 50	125 + 125	94	0.3
STRADELLA-8-T2 */**	Asymmetric	8	5.7	50 x 50	Asymm	94	0.8
STRADELLA-8-T3 */**	Asymmetric	8	5.7	50 x 50	Asymm	94	0.7
STRADELLA-8-VSM*	Wide area lighting	8	5.5	50 x 50	143	94	0.4
STRADELLA-8-SCL */**	Asymmetric	8	5.5	50 x 50	Asymm	93	0.7
STRADELLA-8-T1-A */**	Asymmetric	8	5.32	50 x 50	Asymm	94	1.0
STRADELLA-8-HB-S */**	Spot	8	7.5	50 x 50	27	90	1.8
STRADELLA-8-HB-M */**	Medium	8	5.7	50 x 50	58	92	0.7
STRADELLA-8-HB-W */**	Wide	8	7.12	50 x 50	87	94	0.5

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

** Available also in PC

STRADELLA-16

Name	Beam type	LEDs	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/Im
STRADELLA-16-HB-S *	Spot	16	7.5	50 x 50	27	93	1.7
STRADELLA-16-HB-M *	Medium	16	5.7	50 x 50	61	93	0.7
STRADELLA-16-HB-M2	Medium	16	3.2	50 x 50	55	93	1.0
STRADELLA-16-HB-W *	Wide	16	7.12	50 x 50	92	94	0.5
STRADELLA-16-HB-O	Asymmetric	16	4.3	50 x 50	Asymm.	94	0.8
STRADELLA-16-T1-A *	Asymmetric	16	4.3	50 x 50	Asymm.	94	0.8
STRADELLA-16-T2	Asymmetric	16	4.7	50 x 50	Asymm.	91	0.5
STRADELLA-16-T3	Asymmetric	16	3.7	50 x 50	Asymm.	94	0.6
STRADELLA-16-SCL	Asymmetric	16	4.4	50 x 50	Asymm.	94	0.6
STRADELLA-16-VSM	Asymmetric	16	4.2	50 x 50	Asymm.	86	0.5
STRADELLA-16-T4	Asymmetric	16	5.3	50 x 50	Asymm.	81	0.5
STRADELLA-16-ME	Asymmetric	16	4.9	50 x 50	Asymm.	94	0.6

* Available also in PC

STRADELLA-IP-16

Name	Beam type	LEDs	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/Im
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/Im
STRADELLA-IP-28-T1-A *	Asymmetric	28	9.5	100 x 100	Asymm.	94	0.8
STRADELLA-IP-28-T2 *	Asymmetric	28	9.2	100 x 100	Asymm.	94	0.8
STRADELLA-IP-28-T3 *	Asymmetric	28	9.2	100 x 100	Asymm.	94	0.7
STRADELLA-IP-28-T4B *	Asymmetric	28	9.2	100 x 100	Asymm.	91	0.7
STRADELLA-IP-28-VSM *	Wide area lighting	28	9.5	100 x 100	138	94	0.4
STRADELLA-IP-28-SCL *	Asymmetric	28	9.5	100 x 100	Asymm.	94	0.6
STRADELLA-IP-28-HB-S *	Spot	28	9.5	100 x 100	25	92	1.6
STRADELLA-IP-28-HB-M *	Medium	28	9.5	100 x 100	65	94	0.7
STRADELLA-IP-28-HB-W *	Wide	28	9.5	100 x 100	90	94	0.4

* Available also in PC

STRADELLA-IP-64

NEW!

Name	Beam type	LEDs	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/Im
STRADELLA-IP-64-T2	Street	64	9.2	253 x 74	Asymm.	94	TBA
STRADELLA-IP-64-HB-S	Spot	64	9.2	253 x 74	30	92	TBA
STRADELLA-IP-64-HB-M	Medium	64	9.2	253 x 74	60	90	TBA
STRADELLA-IP-64-HB-W	Wide	64	9.2	253 x 74	90	92	TBA
STRADELLA-IP-64-HB-O	Oval	64	9.2	253 x 74	30 + 90	90	TBA

STREET & AREA LIGHTING



JENNY family

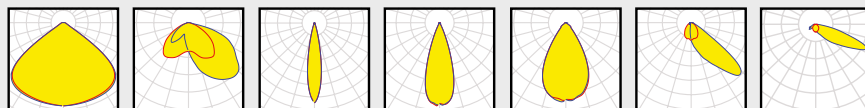
JENNY (www.ledil.com/jennyfamily)

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 *	11.5	35 x 35	94	100
JENNY-T4-G2 *	17	35 x 35	93	Asymm.
JENNY-20 *	14.52	35 x 35	96	20
JENNY-40 *	15	35 x 35	96	40
JENNY-60 *	13.42	35 x 35	94	60
JENNY-FT45 *	20.65	35 x 35	92	Asymm.
JENNY-FT65 *	15.35	35 x 35	93	Asymm.



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

* Available also in 8 lens array

STREET & AREA LIGHTING

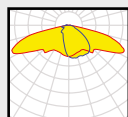
STELLA-family (www.ledil.com/stellafamily)

STELLA-G2

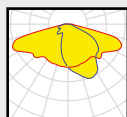
Compatibility:

- 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)

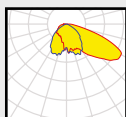
Name	D	H	Typ. eff.	Typ. FWHM
STELLA-G2-T2	90	26.5	86	Asymm.
STELLA-G2-T3	90	40.2	91	Asymm.
STELLA-G2-T4	90	45.2	89	Asymm.
STELLA-G2-VSM	90	25.6	91	Asymm.



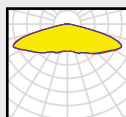
T2



T3



T4



VSM



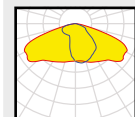
STELLA-G2-T3

STELLA

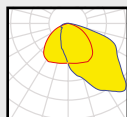
Compatibility:

- 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

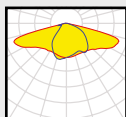
Name	H	D	Typ. eff.	Typ. FWHM
STELLA-A	22	90	92	Asymm.
STELLA-HB	19.5	90	93	76
STELLA-HB-WWW	11.3	90	88	97
STELLA-T4	26.9	90	92	Asymm.
STELLA-VSM	20.7	90	94	Asymm.
STELLA-FRESNEL	23	90	89	27
STELLA-DWC2	19.27	90	92	Asymm.
STELLA-RS	39.15	90	94	25



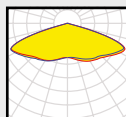
A



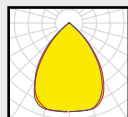
T4



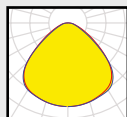
DWC2



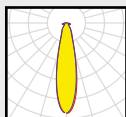
VSM



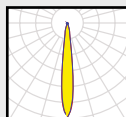
HB



HB-WWW



FRESNEL



RS



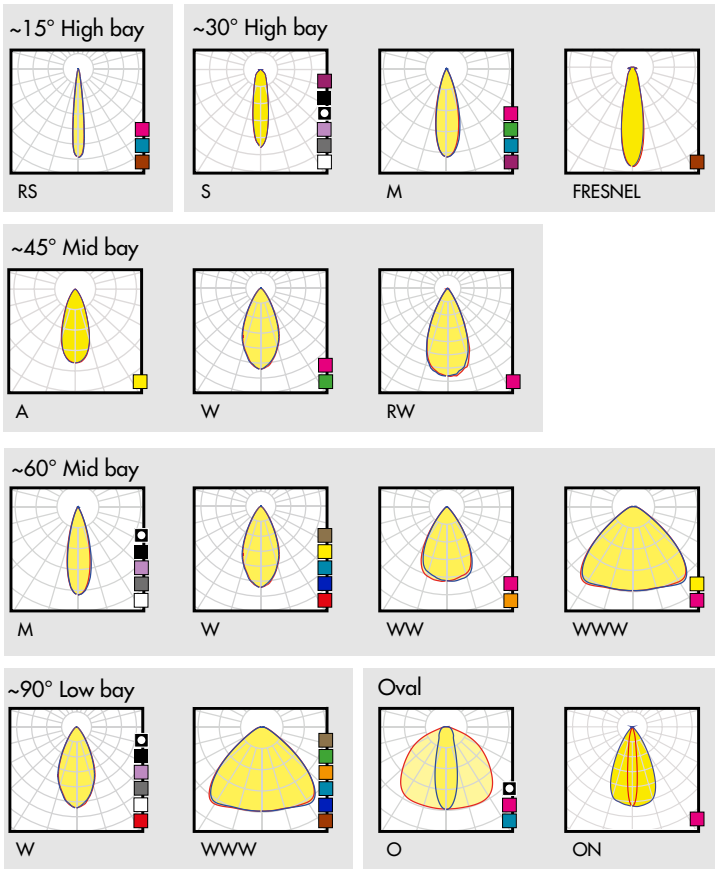
STELLA-RS

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 | STRADELLA-IP-64-HB | |



HIGH BAY LIGHTING

HB family

www.ledil.com/highbayfamily

HB-SQ

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

HB-2X2MX & silicone

2X2MXS modules

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

HB-2X2 modules

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

HB-IP-2X6 modules

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

HB-IP-2X6-G2 modules

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

HB-IP-8MX modules

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



STRADELLA family

www.ledil.com/stradellafamily

STRADELLA-HB

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

STRADELLA-8-HB

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

STRADELLA-16-HB

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

STRADELLA-IP-28-HB

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

STRADELLA-IP-64-HB

Dimensions:
Compatibility:
• Up to 3535 size LED packages

NEW



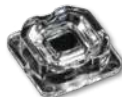
VICTORIA

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



SITARA-HB family

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



STELLA family

www.ledil.com/stellafamily

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



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

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Full turnkey service

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- Accurate light laboratory measurements
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www.ledil.com

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