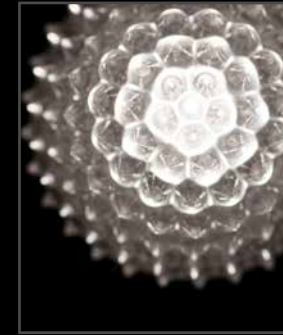


LEDiL®



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

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

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



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PRODUCT FAMILIES & SUGGESTED APPLICATIONS <small>(not all product families listed)</small>	INDOOR										OUTDOOR								
	RETAIL & TRACK	DECORATIVE & STAGE	LINEAR	OFFICE	EMERGENCY & SECURITY	WASH LIGHTING	ARCHITECTURAL	RETROFIT	INDUSTRIAL & TECHNICAL	GENERAL	STREET LIGHTING	AREA & PARKING LOT	CANOPY	TUNNEL & TRANSPORTATION	FLOOD LIGHT	WASH LIGHTING	ARCHITECTURAL	RETROFIT	
	ANGELA / ANGELETTE / ANGELINA	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
ANGIE																			
ANNA	•																		
BARBARA	•	•																	
BILLIE																			
BLONDIE																			
BOOM																			
BRIDGET																			
BROOKE	•	•																	
CARMEN	•																		
CRYSTAL																			
CUTE																			
EMERALD																			
EMILY																			
EMMA																			
EVA	•																		
FLARE																			
FLORENCE-1R																			
FLORENCE (3R)																			
FLORENCE-3R-IP																			
FLORENTINA (12X1)																			
FLORENTINA-1, -2X2, -4X1	•	•																	
GABRIELLA																			
GERI	•																		
GT3 / GT4																			
HB-5X1																			
HB-2X2																			
HB-SQ																			
HB-2X6																			
HB-2X2MX / MXS																			
HEIDI																			
HELENA	•																		
IDA																			
IRENE																			
IRIS	•																		
JENNY																			
JULIA																			
KIKI																			
LARISA																			
LAURA																			
LEILA																			
LENA / LENINA	•																		
LINNEA	•	•																	
LISA																			
LOTTA																			
LUCIA	•	•																	
MARTHA																			

• MID-POWER LEDs • HIGH-POWER LEDs • ULTRA-HIGH-POWER LEDs • COB • CSP
○ ASK FOR COMPATIBILITY

PRODUCT FAMILIES & SUGGESTED APPLICATIONS <small>(not all product families listed)</small>	INDOOR										OUTDOOR								
	RETAIL & TRACK	DECORATIVE & STAGE	LINEAR	OFFICE	EMERGENCY & SECURITY	WASH LIGHTING	ARCHITECTURAL	RETROFIT	INDUSTRIAL & TECHNICAL	GENERAL	STREET LIGHTING	AREA & PARKING LOT	CANOPY	TUNNEL & TRANSPORTATION	FLOOD LIGHT	WASH LIGHTING	ARCHITECTURAL	RETROFIT	
	MELODY																		
MINNIE																			
MIRA																			
MIRELLA	•	•																	
OLIVIA	•																		
PETUNIA																			
QUAK																			
REGINA																			
RGBX																			
RITA																			
RONDA	•	•																	
ROSE																			
SAGA																			
SANDRA	•																		
SATU																			
SEANNA																			
SHELLY																			
SIRI																			
SPUTNIK																			
STELLA																			
STRADA (single)																			
STRADA-2X2																			
STRADA-2X2MX/MXS																			
STRADA-IP-2X6																			
STRADA-SQ																			
STRADA-6X1																			
STRADA-2X2CSP																			
STRADA-2X2S																			
STRADELLA (single), -8																			
STRADELLA-9																			
STRADELLA-16																			
STRADELLA-IP-28																			
TAMPA																			
TATIANA																			
TINA																			
TITANUM																			
TUJJA																			
TWIDDLE																			
TYRA																			
VANESSA																			
VENLA	•																		
VERONICA																			
VIRPI																			
WINNIE	•																		
ZORYA																			
ZORYA-MINI																			
ZOWIE	•																		

• MID-POWER LEDs • HIGH-POWER LEDs • ULTRA-HIGH-POWER LEDs • COB • CSP
○ ASK FOR COMPATIBILITY

SINGLE LENSES

SINGLE LENSES

LARISA (www.ledil.com/larisa) CLIP versions available, check www.ledil.com
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	16	86	6.9
LARISA-M-PIN	Medium	7.5	9.9 x 9.9	25	85	2.9
LARISA-O-PIN	Oval	7.5	9.9 x 9.9	40 + 17	82	2.8
LARISA-O-90-PIN	Oval	7.5	9.9 x 9.9	TBA	TBA	TBA
LARISA-W-PIN	Wide	7.5	9.9 x 9.9	43	85	1.5
LARISA-WW-PIN	Extra wide	7.5	9.9 x 9.9	66	84	0.9
LARISA-RZ-PIN	Diffused spot	7.5	9.9 x 9.9	26	77	2.6

LISA-family (www.ledil.com/lisa) CLIP and PIN versions available, check www.ledil.com
Compatibility: Up to 3535 size LED packages

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

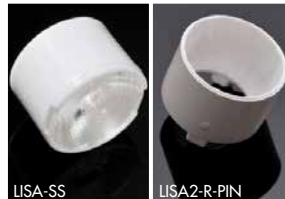
Name	Beam type	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
LISA2-M	M	≈ 6,8	9,9	22	89	2,8
LISA2-O	O	≈ 7	≈ 10	45 x 21	82	2,2
LISA2-O-90	O-90	≈ 6,8	9,9	19 x 48	82	2,2
LISA2-O-90-PIN	O-90	≈ 6,8	9,9	48+18	83	2,2
LISA2-RS	RS	≈ 6,8	9,9	19	89	3,1
LISA2-W	W	≈ 6,8	≈ 9,9	34	88	1,8
LISA2-WW	WW	≈ 6,8	≈ 9,9	46	89	1,1
LISA2-WWW	WWW	≈ 6,8	≈ 9,9	80	83	0,4

TWIDDLE (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)
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-RS	Real spot	12.2	22.5x22.5	13	89	18.8
VERONICA-SQ-SE	Side emitting	11.4	22.5x22.5	189	91	2.7
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



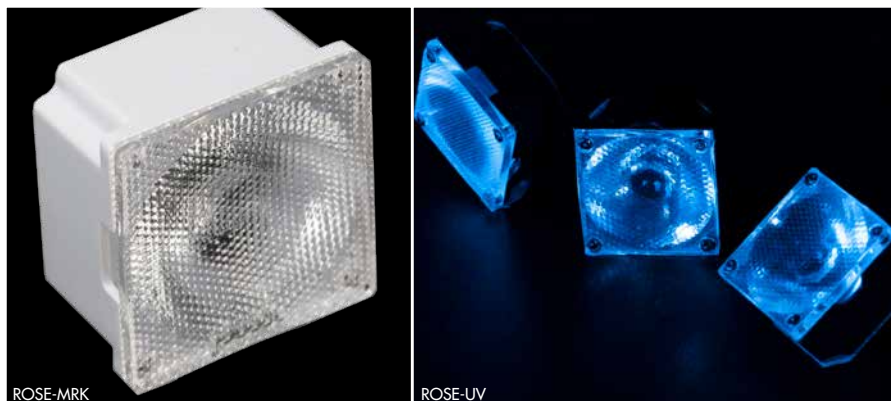
TINA-family (www.ledil.com/tina)
Compatibility: Up to 3535 size LED packages

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
TINA-BW	Batwing	≈ 10	16.1	TBA	TBA	TBA

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-SS	Smooth spot	9.26	16	22	88	4.5
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

Name	Beam type	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
TINA3-OO	OO	≈ 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



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	21.6 x 21.6	16	85	7.1
ROSE-M	M	21.6 x 21.6	30	83	2.5
ROSE-MD	MD	21.6 x 21.6	24	TBA	TBA
ROSE-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-RS	RS	21.6 x 21.6	11	88	21.7
ROSE-SS	SS	21.6 x 21.6	15	87	9.37
ROSE-W	W	21.6 x 21.6	51	81	1.1
ROSE-WW	WW	21.6 x 21.6	59	81	0.78
ROSE-WWW	WWW	21.6 x 21.6	80	84	0.4

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

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

Name	Beam type	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
ROSE-MRK-S	Spot	21.6 x 21.6	30	80	TBA
ROSE-MRK-M	Medium	21.6 x 21.6	43	84	TBA
ROSE-MRK-W	Wide	21.6 x 21.6	62	84	TBA
ROSE-MRK-BW	Batwing	21.6 x 21.6	68	84	0.67

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

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

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

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-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-O-P	13.1	21.6 x 21.6	40 x 13	91	4.8
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-W-P	13.1	21.6 x 21.6	46	91	1.55
G2-LAURA-WW-P	13.1	21.6 x 21.6	66	86	0.7
G2-LAURA-RXW-P	13.1	21.6 x 21.6	72	86	0.6
G2-LAURA-R-W-P	13.1	21.6 x 21.6	70	81	0.8
G2-LAURA-SS-WAS-P	13.1	21.6 x 21.6	Asym.	92	11.6
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



G2-LAURA-O-WAS



LAURA-RS

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	21.6 x 21.6	15	88	6.2
LAURA-M	13	21.6 x 21.6	29	88	2.5
LAURA-O	13	21.6 x 21.6	40 x 12	88	4.3
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-W	13	21.6 x 21.6	42	88	1.7
LAURA-WW	13	21.6 x 21.6	66	86	0.70
LAURA-R-W	13	21.6 x 21.6	70	77	0.52

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

LEILA-G2

LEILA (www.ledil.com/leila)

Compatibility: Up to 5050 size LED packages

Beam type name*	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



LEILA-WAS

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

SINGLE LENSES

SINGLE LENSES

SURI (www.ledil.com/products)

COMING

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

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

BILLIE (www.ledil.com/billie)

Compatibility: Up to 3535 size LED packages

Name	Beam type	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
BILLIE-A	Asymm.	16.1	21.5	Asymm.	88	2.1
BILLIE-B	Asymm.	16.1	21.5	Asymm.	93	2.2

IRENE (www.ledil.com/irene)

Compatibility: Up to 3535 size IR LED packages

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

IRIS (www.ledil.com/iris)

Compatibility: Up to 7070 size LED packages

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

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-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 + 17	85	3.06
EVA-O-90	Oval	16.4	37.7	17 + 40	86	3.3
EVA-S	Spot	16.4	37.7	10	93	TBA
EVA-SS	Smooth spot	16.4	37.7	11	94	TBA
EVA-W	Wide	16.4	37.7	38	83	1.4
EVA-WW	Extra wide	16.4	37.7	53	82	1.7

COMING



SURI-RS



IRENE-IR-16

BILLIE



IRIS-O

MIRA-M



EVA-SS



SPUTNIK-M

EMILY-WWWW

HEIDI-WR

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

Compatibility: Up to 3535 size LED packages

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	44	93	1.7
EMILY-WWWW	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

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	0.28



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)

Compatibility: Up to 3535 size LED packages

Name	Beam type	H	D	Typ. FWHM	Typ. eff.	Typ. cd/lm
LOTTA-A	Wide area lighting	3.6	19.6x15.4	168	88	TBA

EMMA (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

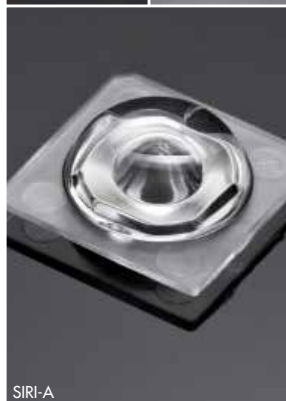


EMMA-A STRADA-S-14

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	0.36
STRADA-S-14	Side emitter	6.5	19.6 x 13.8	142+170	94	0.36



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	13.9x13.9	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

SINGLE LENSES

HELENA (www.ledil.com/helena)

Compatibility: All LED types

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

EMERALD (www.ledil.com/emerald)

Compatibility:

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

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-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



HELENA-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)

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

RGB MIXING

GABRIELLA (www.ledil.com/gabriella)

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	
GABRIELLA-45-M	NEW!	45	29	25	86	TBA
GABRIELLA-45-W	NEW!	45	29	36	TBA	TBA
GABRIELLA-MIDI-S	Coming soon	38	24	11	88	TBA
GABRIELLA-MIDI-M	Coming soon	38	24	TBA	TBA	TBA
GABRIELLA-MIDI-W	Coming soon	38	24	TBA	TBA	TBA

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

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

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

RGBX (www.ledil.com/products)

Compatibility: Up to 5050 size RGB LEDs

Name	D	H	Typ. FWHM	Typ. eff.	Typ.cd/lm
RGBX-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



CARMEN (www.ledil.com/carmen)

Compatibility:

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

Name	Beam type	H	D	Typ. FWHM
CARMEN-RS	NEW! Real spot	36.3	69.9	10
CARMEN-S	Spot	36.3	69.9	14
CARMEN-M	Medium	36.3	69.9	34
CARMEN-W	Wide	36.3	69.9	55
CARMEN-50-RS	NEW! Real spot	25.5	50	12
CARMEN-50-S	NEW! Spot	25.5	50	24
CARMEN-50-M	NEW! Medium	25.5	50	35
CARMEN-50-W	NEW! Wide	25.5	50	50

RONDA (www.ledil.com/ronda)

Compatibility:

- LES sizes up to 16 mm, asymmetric up to 14.5 mm
- Holder A: LEDiL twist and lock base parts, 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	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
RONDA-S	Spot	69.9	27	85	TBA
RONDA-W	Wide	69.9	43	87	TBA
RONDA-WW	Extra wide	69.9	62	89	TBA
RONDA-WWW	Extra ² wide	69.9	90	87	TBA
RONDA-REC-60	Rectangular	69.9	58 + 58	89	TBA
RONDA-REC-90	Rectangular	69.9	80	87	0.53
RONDA-O	Oval	69.9	49 + 30	86	1.4
RONDA-WAS	Asymm.	69.9	Asymm.	86	TBA
RONDA-WAS2	Asymm.	69.9	Asymm.	89	0.96
RONDA-ZT45	Double asymmetric	69.9	Asymm.	85	0.46

SINGLE LENSES

NEW!



MOLLY (www.ledil.com/molly)

Compatibility:

- Optimized for 14.5 mm LES and compatible up to 19 mm LES
- Compatible with LEDiL's C13658_CLAMP-VERO13-18, C14123_CLAMP-CXA15-18, C14036_CLAMP-CXA25-30
- Can be used with 3rd party 3-hook fastening solutions

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

SINGLE LENSES



WINNIE (www.ledil.com/winniefamily)

Compatibility:

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

Name	Beam type	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
WINNIE-S	Spot	19.3	49.8	22	88	3.4
WINNIE-M	Medium flood	19.3	49.8	35	86	1.8
WINNIE-W	Wide flood	19.3	49.8	50	88	1.3
WINNIE-O	Oval	19.3	49.8	63 + 24	89	1.5
WINNIE-S-C	NEW! Spot	19.3	49.8	22	TBA	3.4
WINNIE-M-C	NEW! Medium flood	19.3	49.8	35	TBA	1.8
WINNIE-W-C	NEW! Wide flood	19.3	49.8	50	TBA	1.3
WINNIE-O-C	NEW! Oval	19.3	49.8	63 + 24	TBA	1.5

OLIVIA (www.ledil.com/olivia)

Compatibility:

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

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

SINGLE LENSES



SAGA (www.ledil.com/sagafamily)

Compatibility:

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

Name	Beam type	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
SAGA-HB-IP-WHT	High Bay	12	50	62	90	0.75
SAGA-S-WHT	Coming soon Spot	13.7	50	29	93	TBA

ZORYA (www.ledil.com/zorya)

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

Name	Height	Dimensions	Typ. eff.	Typ. FWHM
ZORYA-SC-50	35	55	97	245
ZORYA-MINI	14.6	22	98	145
ZORYA-SC-ADAPTER-HEKLA				

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

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

MULTI-LENS ARRAYS

MULTI-LENS ARRAYS

SATU (www.ledil.com/satu)

Compatibility: Up to 3535 size LED packages

Name	Beam type	LEDs	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
SATU-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



ANGIE-S

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)

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		3					
ANNA-40-4-M		4					
ANNA-40-5-M		5	40				
ANNA-40-6-M		6					
ANNA-40-7-M	M	7		10.7	22	88	3.7
ANNA-50-3-M		3					
ANNA-50-4-M		4					
ANNA-50-5-M		5	50				
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		3					
ANNA-40-4-S		4					
ANNA-40-5-S		5	40				
ANNA-40-6-S		6					
ANNA-40-7-S	S	7		10.7	15	91	8.5
ANNA-50-3-S		3					
ANNA-50-4-S		4					
ANNA-50-5-S		5	50				
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		3					
ANNA-40-4-W		4					
ANNA-40-5-W		5	40				
ANNA-40-6-W		6					
ANNA-40-7-W		7					
ANNA-50-3-W	W	3		10.7	32	86	1.9
ANNA-50-4-W		4					
ANNA-50-5-W		5	50				
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

MULTI-LENS ARRAYS

MULTI-LENS ARRAYS



MELODY (www.ledil.com/melody)

Compatibility: Up to 3535 size LED packages

Name	Beam type	LEDs	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
MELODY-4-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

SANDRA (www.ledil.com/sandra)

Compatibility: Up to 3535 size LED packages

Name	Beam type	LEDs	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
SANDRA-12-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	74.9 x 74.9	15	94	7.5
VIRPI-M	Medium	25	9.4	74.9 x 74.9	29	92	2.7
VIRPI-W	Wide	25	9.4	74.9 x 74.9	42	91	1.6

PETUNIA (www.ledil.com/petuniamfamily)

Compatibility: Up to 3535 size LED packages

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

IDA (www.ledil.com/idafamily)

Compatibility: Up to 3535 size mid-power LED packages

Name	Beam type	LEDs	H	D	Typ. FWHM	Typ. Eff.
IDA16-M	Narrow	16	9.2	50 x 50	40	92
IDA16-WW	Very wide	16	9.2	50 x 50	71	93
IDA16-O	Oval	16	9.2	50 x 50	90 + 33	92

LUCIA (www.ledil.com/lucia)

Compatibility: Up to 7070 size LED packages

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



FLORENTINA-family

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

Name	Beam type	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
FLORENTINA-RS	Real spot	25.1	29 x 287	11	84	16.74
FLORENTINA-SS	Smooth spot	25.1	29 x 287	21	85	5.88
FLORENTINA-M	Medium	25.1	29 x 287	29	81	3.28
FLORENTINA-O	Oval	25.1	29 x 287	35 + 12	83	5.05
FLORENTINA-D	Diffused spot	25.1	29 x 287	13	84	9.62
FLORENTINA-W	Wide	25.1	29 x 287	42	84	1.75
FLORENTINA-BW	Coming soon Batwing	25.1	29 x 287	60	81	TBA

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

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

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

Name	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)

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

Also available with white shade

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

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

FLORENCE-family (www.ledil.com/florence-family)

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-ZT25	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 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	0.72
FLORENCE-1R-GC-Z90	Rectangular	90	94	TBA
FLORENCE-1R-GC-ZT25	Asymmetric	TBA	TBA	TBA

FLORENCE (3R)

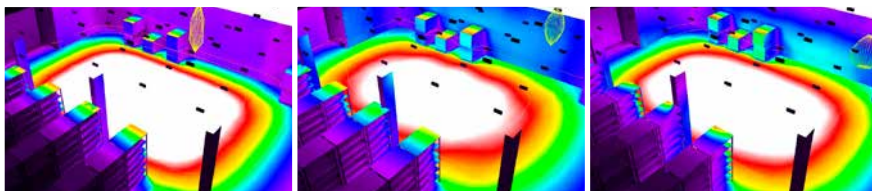
Compatibility: Range of 3 x 11 high-power LED modules with up to 5050 size packages

Name	Beam type	Typ. FWHM	Typ. eff.	Typ. cd/lm
FLORENCE-Z30	M	29	94	2.2
FLORENCE-Z60	W	58	88	0.8
FLORENCE-Z90	WWW	92	86	0.4
FLORENCE-Z90-B	WWW	92	90	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

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	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 lenses are designed for single row mid-power LED modules. The lenses can be easily snapped apart into single 95 mm

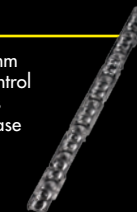
pieces. Narrow width makes it easy to achieve sleek and stylish linear luminaire design. Easy installation with optional clips makes

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



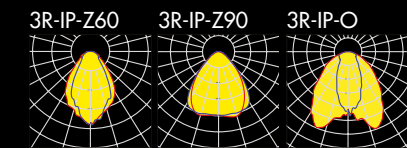
FLORENCE-1R-GC

- Fixed led pitch of 24 x 11.62 mm
- 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 to form continuous rows



FLORENCE-3R-IP

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

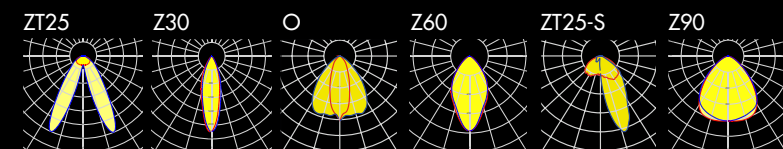


FLORENCE (3R)

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

architectural applications. For architectural and retail applications where glare may be an issue,

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



LINEAR LENSES

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)

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



VANESSA-B-O



SHELLY-T-6X1-N



SHELLY-T-6X1-WAS

LINEAR LENSES



LINNEA

LINNEA (www.ledil.com/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-90	9.5	285 x 40	90	85
LINNEA-60	12	285 x 40	60	85
LINNEA-O	12	285 x 40	35 + 70	81
LINNEA-ZT25	10.3	285 x 40	Asymm.	87
LINNEA-ZT25	9.5	285 x 40	Asymm.	80
LINNEA-UP	Coming soon	285 x 40	Asymm.	79
LINNEA-90-B	9.5	285 x 40	90	85
LINNEA-60-B	12	285 x 40	60	85
LINNEA-O-B	12	285 x 40	35 + 70	81
LINNEA-ZT25-B	10.3	285 x 40	Asymm.	87
LINNEA-ZT25-B	9.5	285 x 40	Asymm.	80
LINNEA-UP-B	Coming soon	285 x 40	Asymm.	79
LINNEA-XX*-END-ML	Short end cap (male) - Clips for 1.0 mm thick metal sheet assembly with LINNEA			
LINNEA-XX*-END-FL	Short end cap (female) - Clips for 1.0 mm thick metal sheet assembly with LINNEA			
LINNEA-XX*-END-B-ML	Long end cap (male) - Clips for 0.5 mm thick metal sheet assembly with LINNEA-B			
LINNEA-XX*-END-B-FL	Long end cap (female) - Clips for 0.5 mm thick metal sheet assembly with LINNEA-B			

* Optical variant

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
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

Name	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 10 mm

Name	H	D	Typ. FWHM	Typ. eff.	Typ. cd/lm
BRIDGET-S-UNI	12.8	22.6	44	85	1.0
BRIDGET-M-UNI	12.8	22.6	52	84	1.1
BRIDGET-W-UNI	12.8	22.6	61	87	1.0



VENLA (www.ledil.com/venla)

Compatibility: Up to 7070 size LED packages

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

RITA (www.ledil.com/rita)

Compatibility: Up to 5050 size LED packages

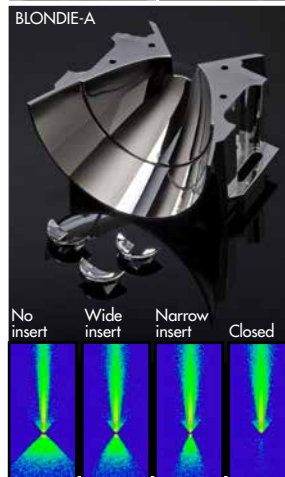
Name	Beam type	H	D	Typ. eff.	Typ. cd/lm
RITA-A	Asymm.	17	36 x 28.4	87	0.6
RITA-WAS	Asymm.	17	31.9x28.4	85	0.63
RITA-A-RZ	Asymm.	19	35 x 29	82	0.6
RITA-WAS-RZ	Asymm.	19	35 x 29	80	0.6

BLONDIE (www.ledil.com/blondie)

Comes with three interchangeable inserts for backside light shaping.

Compatibility: Up to 7070 size LED packages

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



LEDiL'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)

Compatibility: COBs with LES size up to 19 mm

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

Additional accessories

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



BROOKE (www.ledil.com/brooke)

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

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

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

MIRELLA

Glue or mechanical mounting using flange

Compatibility: COBs with LES size up to 14 mm

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 accessories

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

MIRELLA-PIN

Location pins for easy alignment

Compatibility: COBs with LES size up to 14 mm

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 accessories

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



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

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

Additional accessories

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

LEDiL PF Sockets

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

MIRELLA-G2

Compatible with LEDiL HEKLA connectors/sockets

Compatibility: COBs with LES size up to 14 mm

Name	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
MIRELLA-G2-S	24.8	49.9	15	90	6.6
MIRELLA-G2-M	24.8	49.9	20	90	3.4
MIRELLA-G2-W	24.8	49.9	31	91	1.9
MIRELLA-G2-WW	24.8	49.9	60	85	1.3

Additional accessories

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

LEDiL HEKLA connectors and sockets (Check compatibility on page 39 or www.ledil.com)

BARBARA-family

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

BARBARA

Glue or mechanical mounting using flange

Compatibility: COBs with LES size up to 19 mm

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

Press-fit fastening for LEDiL sockets

Compatibility:

- COBs with LES size up to 19 mm
- 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

Additional accessories

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



BARBARA-G2

Compatible with LEDiL HEKLA connectors/sockets

Compatibility: COBs with LES size up to 18 mm

Name	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
BARBARA-G2-S	41.9	70	13	TBA	TBA
BARBARA-G2-M	41.9	70	25	TBA	TBA
BARBARA-G2-W	41.9	70	40	TBA	TBA
BARBARA-G2-WW	41.9	70	55	TBA	TBA

Additional accessories

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

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.

LENA / LENINA

Ø111 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,

Name	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

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

Name	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

Additional accessories

LENINA-DL	Diffuser lens
LENINA-CL	Clear lens

Base parts for LENA/LENINA

Name	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

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

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

Compatibility:

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

Name	Beam type	D	H	Typ. FWHM	Typ. Eff.	Typ. cd/lm
ANGELA-S	Spot	119.5	74.27	25	89	3.2
ANGELA-M	Medium	119.5	74.27	32	89	2.5
ANGELA-W	Wide	119.5	74.27	46	89	1.4
ANGELA-XW	Wide	119.5	74.27	72	93	0.6
ANGE-RZ	Color mixing sublens					

ANGELINA (www.ledil.com/angelina-family)

Compatibility:

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

Name	Beam type	D	H	Typ. FWHM	Typ. Eff.	Typ. cd/lm
ANGELINA-S	Spot	82	31	20	90	1.2
ANGELINA-M	Medium	82	31	32	92	1.6
ANGELINA-W	Wide	82	31	47	92	1.1
ANGELINA-XW	Extra wide	82	31	91	93	0.46
ANGE-RZ	Color mixing sublens					

ANGELETTE (www.ledil.com/angelette-family)

Compatibility:

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

Name	Beam type	D	H	Typ. FWHM	Typ. Eff.	Typ. cd/lm
ANGELETTE-S	Spot	110	57.3	15	90	5.3
ANGELETTE-M2	Coming	110	57.3	35	TBA	TBA
ANGELETTE-M	Medium	110	57.3	50	89	1.2
ANGELETTE-WW	Extra wide	110	57.3	70	90	0.8
ANGELETTE-WAS	Asymm.	97.2x83.4	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/lm
ANGELETTE-S-PLAIN	Spot	110	57.3	10	89	8.1
ANGELETTE-M-PLAIN	Medium	110	57.3	50	89	1.2
ANGELETTE-WW-PLAIN	Extra wide	110	57.3	63	89	1.1
ANGE-RZ	Color mixing sublens					

Base parts for ANGELA/ANGELINA/ANGELETTE

Name	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



MIRELLA-G2
ø 50 mm



BROOKE-G2
ø 45 mm



CARMEN
ø 70 mm
ø 50 mm
incl. CARMEN-HLD-C



ZORYA
ø 55 mm
incl. ZORYA-ADAPTER-HEKLA



RONDA
ø 54 mm
incl. RONDA-HLD-C



WINNIE
ø 50 mm
incl. WINNIE-HLD-C



HEKLA

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

- **COMPATIBILITY:** One interface for a variety of LEDiL optics, 9 variants currently supporting over 110 COBs
- **USABILITY:** Easy to use twist & lock mechanism for optics assembly and replacement
- **DURABILITY:** Long lasting materials that can handle high temperatures without losing grip
- **INNOVATION:** Same system – freedom to choose between solderless connector or mechanical socket



HEKLA Connectors

Rated voltage: 50 V

Rated current: 3 A

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



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

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

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

STRADA single lenses

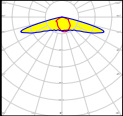
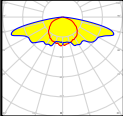
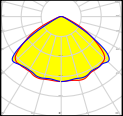
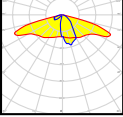
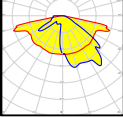
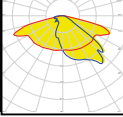
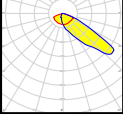
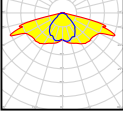
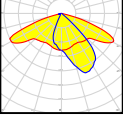
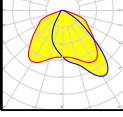
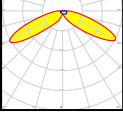
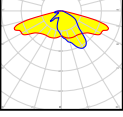
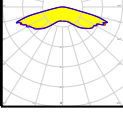
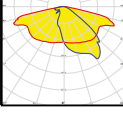
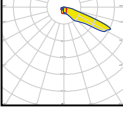
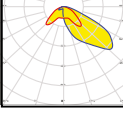
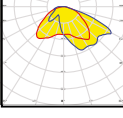
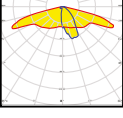
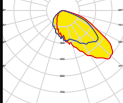
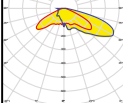
www.ledil.com/strada

Compatibility:

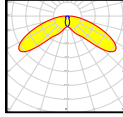
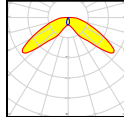
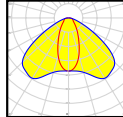
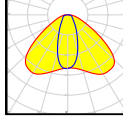
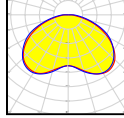
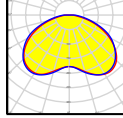
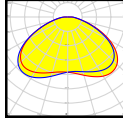
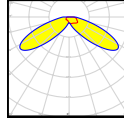
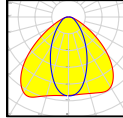
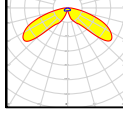
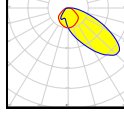
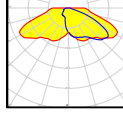
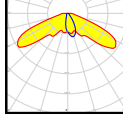
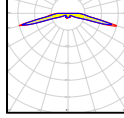
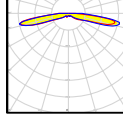
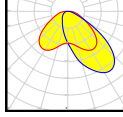
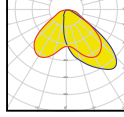
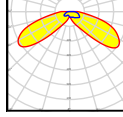
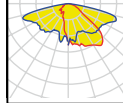
- STRADA: Up to 3535 sized LED packages
- STRADA-SQ: Up to 7070 size LED packages



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: 8.4mm, Typ. eff.: 93%	 STRADA-SQ-FS3 D: 25 x 25 mm H: 16.2 mm Typ. eff.: 91%
 STRADA-SQ-FT 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%	 STRADA-SQ-T2-B D: 25 x 25 mm H: 10.35 mm
 NEW STRADA-SQ-PX D: 25 x 25 mm H: 9.2 mm Typ. eff.: 93%	 NEW STRADA-SQ-T4-B D: 25 x 25 mm H: 11.85 mm Typ. eff.: 90%	

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: 19.8 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°x142°	 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: 8.7 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%																																			
<table border="1"> <thead> <tr> <th>Name</th> <th>Dimensions</th> <th>Height</th> <th>Typ. eff.</th> <th>Typ. FWHM</th> </tr> </thead> <tbody> <tr> <td>STRADA-SQ-FS-NP</td> <td>25 x 25</td> <td>12.4</td> <td>93</td> <td>Asymm.</td> </tr> <tr> <td>STRADA-SQ-ME-NP</td> <td>25 x 25</td> <td>8.6</td> <td>93</td> <td>Asymm.</td> </tr> <tr> <td>STRADA-SQ-FW</td> <td>25 x 25</td> <td>15.3</td> <td>90</td> <td>Asymm.</td> </tr> <tr> <td>STRADA-SQ-T4-NP</td> <td>25 x 25</td> <td>9.4</td> <td>92</td> <td>Asymm.</td> </tr> <tr> <td>STRADA-SQ-T-DW-90</td> <td>25 x 25</td> <td>11.4</td> <td>91</td> <td>Asymm.</td> </tr> <tr> <td>STRADA-C2-NP</td> <td>19.6 x 15.6</td> <td>6.9</td> <td>92</td> <td>Asymm.</td> </tr> </tbody> </table>	Name	Dimensions	Height	Typ. eff.	Typ. FWHM	STRADA-SQ-FS-NP	25 x 25	12.4	93	Asymm.	STRADA-SQ-ME-NP	25 x 25	8.6	93	Asymm.	STRADA-SQ-FW	25 x 25	15.3	90	Asymm.	STRADA-SQ-T4-NP	25 x 25	9.4	92	Asymm.	STRADA-SQ-T-DW-90	25 x 25	11.4	91	Asymm.	STRADA-C2-NP	19.6 x 15.6	6.9	92	Asymm.	 STRADA-ME D: 19.6 x 15.5 mm H: 5.73 mm Typ. eff.: 94%	
Name	Dimensions	Height	Typ. eff.	Typ. FWHM																																	
STRADA-SQ-FS-NP	25 x 25	12.4	93	Asymm.																																	
STRADA-SQ-ME-NP	25 x 25	8.6	93	Asymm.																																	
STRADA-SQ-FW	25 x 25	15.3	90	Asymm.																																	
STRADA-SQ-T4-NP	25 x 25	9.4	92	Asymm.																																	
STRADA-SQ-T-DW-90	25 x 25	11.4	91	Asymm.																																	
STRADA-C2-NP	19.6 x 15.6	6.9	92	Asymm.																																	

STREET & AREA LIGHTING

STRADA-2X2 modules

www.ledil.com/strada-2x2

Compatibility:

- Up to 5050 sized LED packages

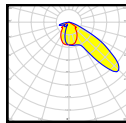


NEW!

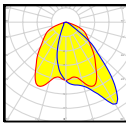
Street lighting

STRADA-2X2-ME-N
D: 50 x 50 mm
H: 6.7 mm
Typ. eff.: 94%

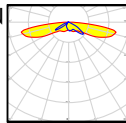
Area lighting



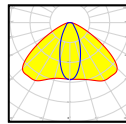
STRADA-2X2-FN
D: 50 x 50 mm
H: 10 mm
Typ. eff.: 94%
Forward throw,
Narrow beam



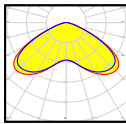
STRADA-2X2-DN
D: 50 x 50 mm
H: 8,05 mm
Typ. eff.: 94%
Wide beam



STRADA-2X2-XW
D: 50 x 50 mm
H: 7 mm
Typ. eff.: 94%
Wide beam

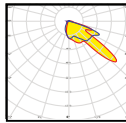


STRADA-2X2-B2-STP
D: 50 x 50 mm
H: 5.18 mm
Typ. eff.: 93%

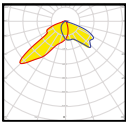


STRADA-2X2-C-STP
D: 50 x 50 mm
H: 6.27 mm
Typ. eff.: 94%

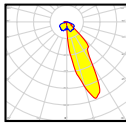
Pedestrian crossing lighting



STRADA-2X2-PX
D: 50 x 50 mm
H: 8 mm
Typ. eff.: 94%
For right side traffic

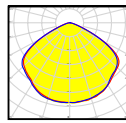


STRADA-2X2-PXL
D: 50 x 50 mm
H: 8 mm
Typ. eff.: 94%
For left side traffic



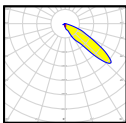
STRADA-2X2-NHS
D: 50 x 50 mm
H: 9.8 mm
Typ. eff.: 90%

High bay

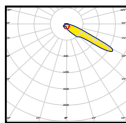


STRADA-2X2-CY
D: 50x50 mm
H: 7.8 mm
Typ. eff.: 94%

Tunnel lighting



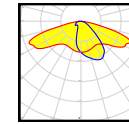
STRADA-2X2-TF
D: 50 x 50 mm
H: 8.73 mm
Typ. eff.: 94%



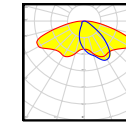
STRADA-2X2-FS3
D: 50 x 50 mm
H: 12 mm
Typ. eff.: 94%

STREET & AREA LIGHTING

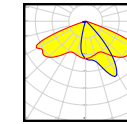
Street lighting



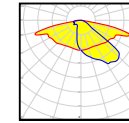
STRADA-2X2-DWC
D: 50 x 50 mm
H: 6 mm
Typ. eff.: 93%



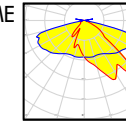
STRADA-2X2-DNW
D: 50 x 50 mm
H: 11 mm
Typ. eff.: 93%



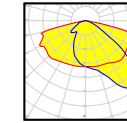
STRADA-2X2-A-T
D: 50 x 50 mm
H: 7.3 mm
Typ. eff.: 93%



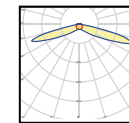
STRADA-2X2-ME-WIDE1
D: 50 x 50 mm
H: 8.2 mm
Typ. eff.: 94%



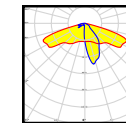
STRADA-2X2-ME-WIDE2
D: 50 x 50 mm
H: 8.3 mm
Typ. eff.: 84%



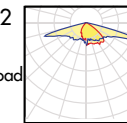
STRADA-2X2-ME-WIDE2
D: 50 x 50 mm
H: 7 mm
Typ. eff.: 81%



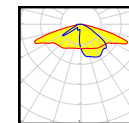
STRADA-2X2-T1
D: 50 x 50 mm
H: 7.78 mm
Typ. eff.: 94%
IESNA Type I light distribution



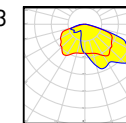
STRADA-2X2-T2
D: 50 x 50 mm
H: 7.7 mm
For IESNA Type 2 road lighting
Typ. eff.: 94%



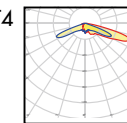
STRADA-2X2-T2-C
D: 50 x 50 mm
H: 7.34 mm
Typ. eff.: 94%



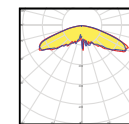
STRADA-2X2-T3
D: 50 x 50 mm
H: 7 mm
Typ. eff.: 94%



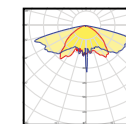
STRADA-2X2-T4
D: 50 x 50 mm
H: 7 mm
Typ. eff.: 94%



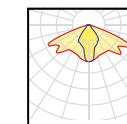
STRADA-2X2-T4-B
D: 50 x 50 mm
H: 9.02 mm
Typ. eff.: 93%



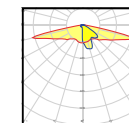
STRADA-2X2-VSM
D: 50 x 50 mm
H: 6.14 mm
Typ. eff.: 94%
IESNA Type V Short



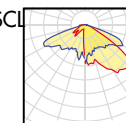
STRADA-2X2-CAT
D: 50 x 50 mm
H: 6.2 mm
Typ. eff.: 94%
For catenary luminaires



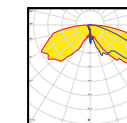
STRADA-2X2-CAT-B
D: 50 x 50 mm
Typ. eff.: 94%



STRADA-2X2-SCL
D: 50 x 50 mm
H: 7.8 mm
Typ. eff.: 94%
European S-class lighting



STRADA-2X2-MEW
D: 50 x 50 mm
H: 11.16 mm
Typ. eff.: 88%
ME for wet roads



STRADA-2X2-FW
D: 50 x 50 mm
H: 11.98 mm
Typ. eff.: 92%

STRADA-2X2CSP (www.ledil.com/products)

NEW!

Compatibility:

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

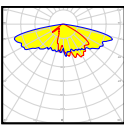
Name	Height	Dimensions	Typ. eff.	Typ. FWHM
STRADA-2X2CSP-SCL	7.49	50 x 50	94	Asymm.
STRADA-2X2CSP-VSM	6.95	50 x 50	94	Asymm.
STRADA-2X2CSP-T2	7.7	50 x 50	94	Asymm.
STRADA-2X2CSP-T3	TBA	50 x 50	TBA	Asymm.
STRADA-2X2CSP-T4-B	6.84	50 x 50	94	Asymm.
STRADA-2X2CSP-ME	6.6	50 x 50	93	Asymm.

STRADA-2X2MX modules

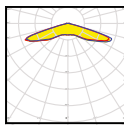
www.ledil.com/2x2mx

Compatibility:

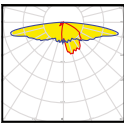
- Super high-power LEDs up to 7070 size packages



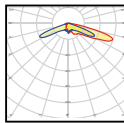
STRADA-2X2MX-8-DWC
D: 90 x 90 mm
H: 11.3 mm
Typ. eff.: 94%
PMMA



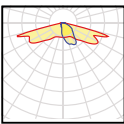
STRADA-2X2MX-8-VSM
D: 90 x 90 mm
H: 13.4 mm
PMMA
Typ. eff.: 94%
Type V street lighting



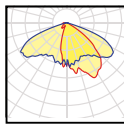
STRADA-2X2MX-8-SCL
D: 90 x 90 mm
H: 13.17 mm
PMMA
S class lighting applications



STRADA-2X2MX-8-T4-B
D: 90 x 90 mm
PMMA
Widest IESNA Type IV Forward throwing beam



STRADA-2X2MX-8-T2
D: 90 x 90 mm
H: 12.57 mm
PMMA
Type II road lighting beam



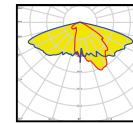
STRADA-2X2MX-8-T2-S
D: 90 x 90 mm
H: 11.13 mm
PMMA
Typ. eff.: 94%
IESNA Type II Short beam for high or dense pole setups

Silicone STRADA-2X2MXS modules

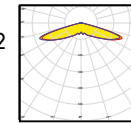
www.ledil.com/products

COMPATIBILITY

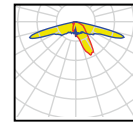
- Up to 7070 size LED packages



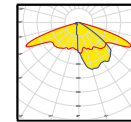
STRADA-2X2MXS-DWC2
D: 90 x 90 mm
H: 14.41 mm
Silicone



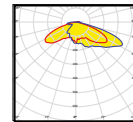
STRADA-2X2MXS-VSM
D: 90 x 90 mm
H: 13 mm
Silicone



STRADA-2X2MXS-T2
D: 90 x 90 mm
H: 12.7 mm
Silicone



STRADA-2X2MXS-T3
D: 90 x 90 mm
H: 14.8 mm
Silicone



STRADA-2X2MXS-T4-B
D: 90 x 90 mm
H: 14.2 mm
Silicone

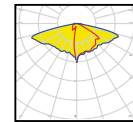


Silicone STRADA-2X2S modules

www.ledil.com/products

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



STREET & AREA LIGHTING



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-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		
JENNY-CY-G2	Coming soon	TBA	TBA	TBA
JENNY-T4-G2	Coming soon	TBA	TBA	Asymm.
JENNY-8X1-CY-G2	Coming soon	TBA	TBA	TBA
JENNY-8X1-T4-G2	Coming soon	TBA	TBA	Asymm.

STELLA (www.ledil.com/stellafamily)

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

- 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-RS – narrow spot for bigger size COBs
- STELLA-HB – symmetric beam for warehouse and outdoor applications
- STELLA-HB-WWW – wide symmetric beam for warehouse and outdoor applications

Name	H	D	Typ. eff.	Typ. FWHM
STELLA-A	22	90	92	Asymm.
STELLA-HB	19.5	90	93	76
STELLA-HB-WWW	11.3	90	88	97
STELLA-T4	26.9	90	92	Asymm.
STELLA-VSM	20.7	90	TBA	TBA
STELLA-FRESNEL	23	90	89	27
STELLA-DWC2	19.27	90	92	Asymm.
STELLA-RS	NEW! 39.15	90	94	30
STELLA-CLAMP-CXA15-18				

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.

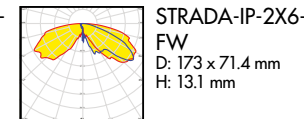
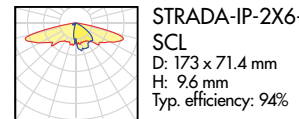
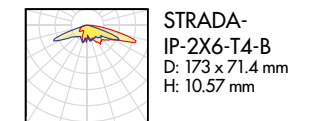
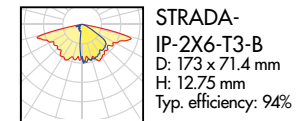
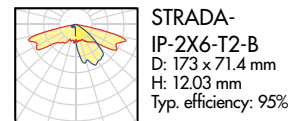
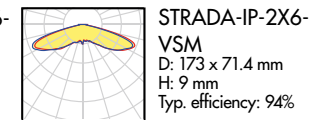
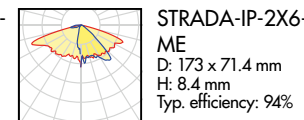
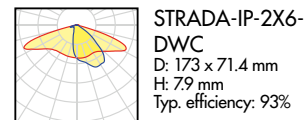
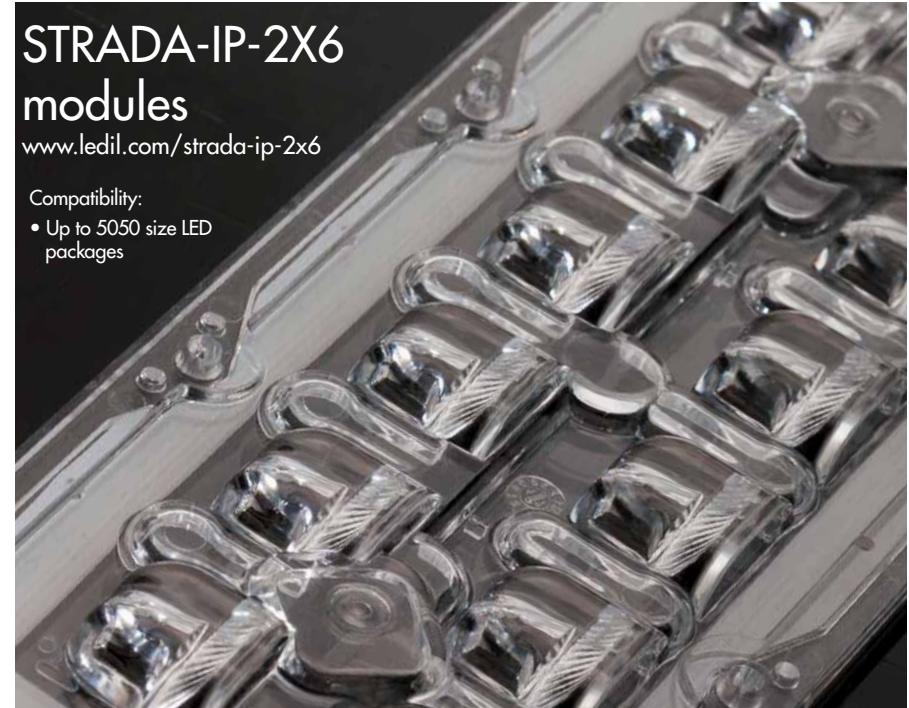
STREET & AREA LIGHTING

STRADA-IP-2X6 modules

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

Compatibility:

- Up to 5050 size LED packages



Name	Dimensions	Height	Typ. eff.	Typ. FWHM
STRADA-IP-2X6-T2	173 x 71.4	9.2	94	Asymm.
STRADA-IP-2X6-T2-B-90	173 x 71.4	12.03	94	Asymm.
STRADA-IP-2X6-T3	173 x 71.4	8.5	94	Asymm.
STRADA-IP-2X6-T3-B-90	173 x 71.4	12.75	94	Asymm.
STRADA-IP-2X6-DWC-90	173 x 71.4	8.98	94	Asymm.

The information contained herein is the property of LEDiL Oy, Joensuukatu 13, FI-21400 SALO, Finland, and is subject to change without prior notice. Please visit www.ledil.com for additional information, such as the latest photometric files, 3D mechanical models, and application notes relating to handling, gluing and taping.

STRADA-6X1 modules

www.ledil.com/strada-6x1

Compatibility:

- Up to 3535 size LED packages



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

TATIANA (www.ledil.com/tatiana)

Compatibility: Up to 3535 size LED packages

- 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	102 x 25	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 product datasheets.

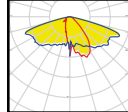
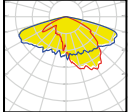
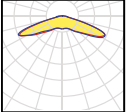
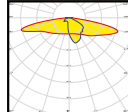
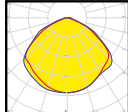
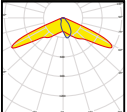
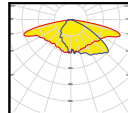
STRADELLA

www.ledil.com/stradellafamily

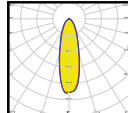
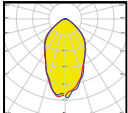
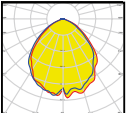
Compatibility:

- STRADELLA single lens: Up to 3535 size mid- and high-power LEDs
- STRADELLA-8: Up to 3535 size mid- and high-power LEDs
- STRADELLA-9: Up to 3535 size mid power and CSP LEDs
- STRADELLA-16: Up to 3535 size mid-power 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-HV-CY D: 49.5 x 49.5 mm H: 4.73 mm Typ. eff.: 94%		STRADELLA-8-T1-A D: 49.5 x 49.5 mm H: 5.32 mm Typ. eff.: 94%
	STRADELLA-8-HV-ME D: 49.5 x 49.5 mm H: 5.5 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°
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Name	Beam type	LEDs	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
STRADELLA-CY	Wide area lighting	1	4.73	13.9 x 13.9	115	94	0.32
STRADELLA-T2	Asymmetric	1	4.96	13.9 x 13.9	Asymm	94	0.77
STRADELLA-T3	Asymmetric	1	4.96	13.9 x 13.9	Asymm	94	0.7
STRADELLA-T4-B	NEW! Asymmetric	1	5.16	13.9 x 13.9	Asymm.	93	0.56
STRADELLA-T1-A	NEW! Asymmetric	1	5.32	13.9 x 13.9	Asymm.	94	0.86
STRADELLA-HB-S	Spot	1	7.5	13.9 x 13.9	27	95	1.55
STRADELLA-HB-M	Medium	1	5.7	13.9 x 13.9	58	94	0.61
STRADELLA-HB-W	Wide	1	7.12	13.9 x 13.9	87	94	0.5
STRADELLA-8-HV-ME	NEW! Asymmetric	8	5.5	49.5 x 49.5	Asymm.	94	0.7
STRADELLA-8-HV-CY	Wide area lighting	8	4.91	49.5 x 49.5	125 + 125	94	0.34
STRADELLA-8-T2*	Asymmetric	8	5.7	49.5 x 49.5	Asymm	94	0.75
STRADELLA-8-T3*	Asymmetric	8	5.7	49.5 x 49.5	Asymm	94	0.7
STRADELLA-8-VSM*	Wide area lighting	8	5.5	49.5 x 49.5	143	94	0.42
STRADELLA-8-SCL*	Asymmetric	8	5.5	49.5 x 49.5	Asymm	93	0.7
STRADELLA-8-T1-A*	NEW! Asymmetric	8	5.32	49.5 x 49.5	Asymm	94	1.0
STRADELLA-8-HB-S*	Spot	8	7.5	49.5 x 49.5	27	90	1.75
STRADELLA-8-HB-M*	Medium	8	5.7	49.5 x 49.5	58	92	0.70
STRADELLA-8-HB-W*	Wide	8	7.12	49.5 x 49.5	87	94	0.46
STRADELLA-9-AT	Asymmetric	9	6.3	49.5 x 49.5	Asymm	92	0.46
STRADELLA-16-HB-S	Spot	16	7.5	49.5 x 49.5	27	93	1.7
STRADELLA-16-HB-M	Medium	16	5.7	49.5 x 49.5	61	93	0.68
STRADELLA-16-HB-W	Wide	16	7.12	49.5 x 49.5	92	94	0.49
STRADELLA-16-T1-A	NEW! Asymmetric	16	4.3	49.5 x 49.5	Asymm.	94	0.81

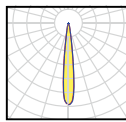
* Available in HV versions with different pin locations allowing high voltage circuit designs

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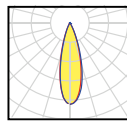
HIGH BAY LIGHTING

HIGH BAY LIGHTING

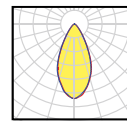
HB-2X2



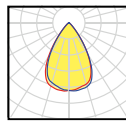
HB-2X2-RS
D: 50 x 50 mm
H: 10 mm
Typ. FWHM: 10°



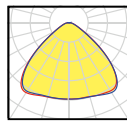
HB-2X2-M
D: 50 x 50 mm
H: 8.5 mm
Typ. FWHM: 25°



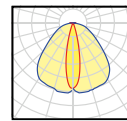
HB-2X2-W
D: 50 x 50 mm
H: 8.5 mm
Typ. FWHM: 51°



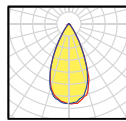
HB-2X2-WWW
D: 50 x 50 mm
H: 8.5 mm
Typ. FWHM: 65°



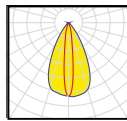
HB-2X2-WWWW
D: 50 x 50 mm
H: 8.5 mm
Typ. FWHM: 65°



HB-2X2-O
D: 50 x 50 mm
H: 10.6 mm
Typ. FWHM: 19° + 17°

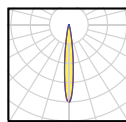


HB-2X2-RW
D: 50 x 50 mm
H: 8.5 mm
Typ. FWHM: 51°

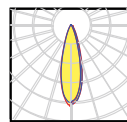


HB-2X2-ON
D: 50 x 50 mm
H: 10 mm
Typ. FWHM: 14° + 50°

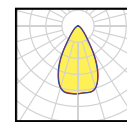
HB-IP-2X6



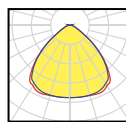
HB-IP-2X6-RS
D: 173 x 71.4 mm
H: 11.4 mm
Typ. FWHM: 19°



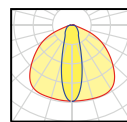
HB-IP-2X6-M
D: 173 x 71.4 mm
H: 11.4 mm
Typ. FWHM: 27°



HB-IP-2X6-W
D: 173 x 71.4 mm
H: 11.4 mm
Typ. FWHM: 58°

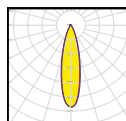


HB-IP-2X6-WWWW
D: 173 x 71.4 mm
H: 11.4 mm
Typ. FWHM: 98°

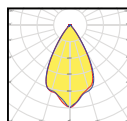


HB-IP-2X6-O
D: 173 x 71.4 mm
H: 12.2 mm
Typ. FWHM: 32° + 115°

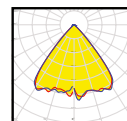
HB-2X2MX



HB-2X2MX-8-M
D: 90 x 90 mm
H: 16.38 mm
Typ. FWHM: 30°
Typ. eff.: 92%



HB-2X2MX-8-W
D: 90 x 90 mm
H: 15.35 mm
Typ. FWHM: 50°
Typ. eff.: 92%



HB-2X2MX-8-WWWW
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-WWW	5	123 x 25	9	72

HB family

www.ledil.com/highbayfamily

HB-2X2 modules

Compatibility:

- Up to 5050 size LED packages

HB-IP-2X6 modules

Compatibility:

- Up to 5050 size LED packages

HB-2X2MX modules

www.ledil.com/2x2mx

Compatibility:

- Super high-power LEDs up to 7070 size packages

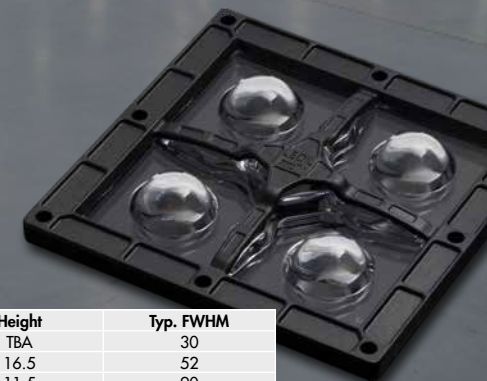
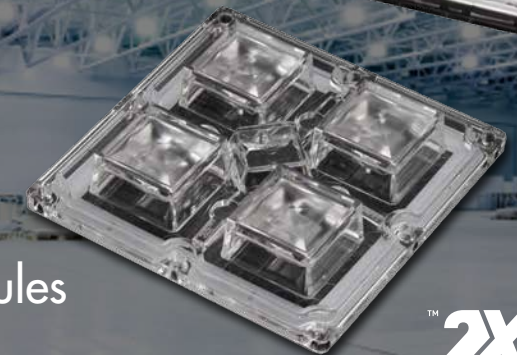
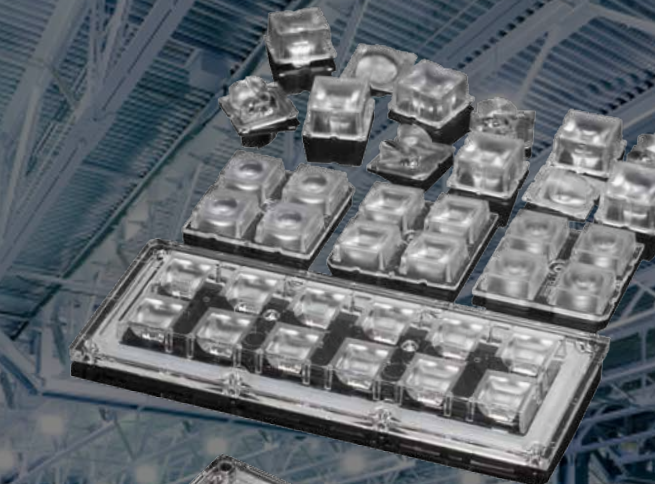
HB-2X2MXS modules

www.ledil.com/2x2mx

Compatibility:

- Up to 7070 size LED packages

Name	Dimensions	Height	Typ. FWHM
HB-2X2MXS-M	90 x 90	TBA	30
HB-2X2MXS-WWW	90 x 90	16.5	52
HB-2X2MXS-WW	90 x 90	11.5	90



2X2^{mx}

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

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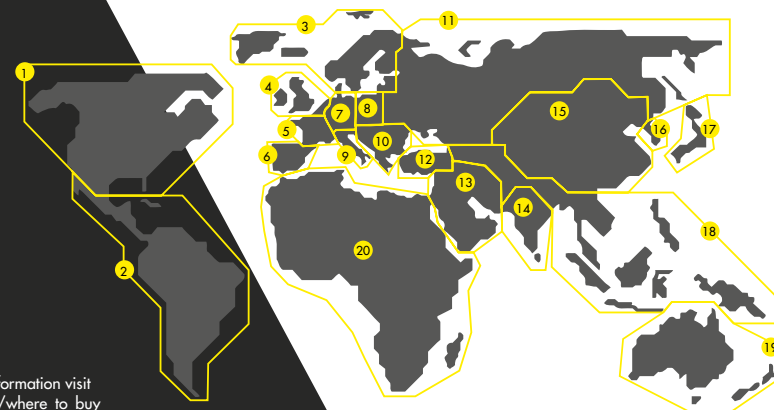
Long experience and wide expertise in optical design
Full turnkey service

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- Accurate light laboratory measurements
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- Wide testing capabilities to support product development
- Thermal analysis service from the beginning of a project
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Broad recognition in the industry as a manufacturer of high quality products

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