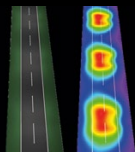


LEDiL[®]

RANGE & PRECISION – LEDiL[®]'s standard LED optics offer both

LEDiL is a Finnish manufacturer and supplier of top quality LED secondary optics. Driven by an innovative 'can do, will do' attitude we go the 'extra mile' to deliver solutions that add real value to our customers' end products. Our standard product range of asymmetric and symmetric reflectors and lenses totals almost 4000 cost-effective optical solutions. Add to this a global network of distributors, together with free technical support, and we can guarantee the most competitive solutions available today.

Application support



Custom solutions



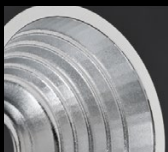
Symmetric



Asymmetric



Reflectors



Arrays





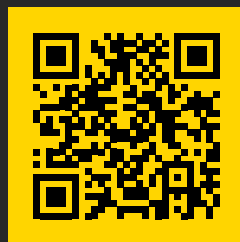
Useful information

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

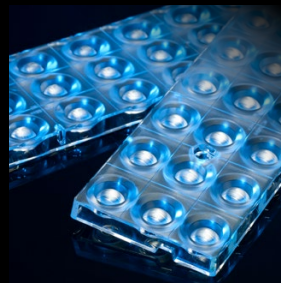
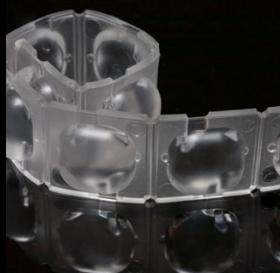
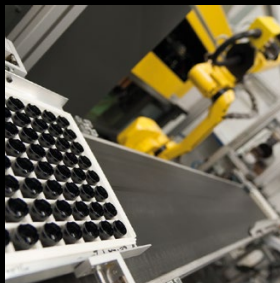
For your convenience we have included saved search paths under each product family name. This address will take you directly to the family listing on our website.

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

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LARISA

www.ledil.com/larisa

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
CP15304_LARISA-RS-PIN	Real spot	7.5	9.9 x 9.9	32	86	2,2
CP15305_LARISA-M-PIN	Medium	7.5	9.9 x 9.9	40 x 22	81	2,1
CP15306_LARISA-O-PIN	Oval	7.5	9.9 x 9.9	19	80	3,7
CP15307_LARISA-W-PIN	Wide	7.5	9.9 x 9.9	48	85	1,2
CP15308_LARISA-WW-PIN	Extra wide	7.5	9.9 x 9.9	57	84	0,9
CP15309_LARISA-RZ-PIN	Diffused spot	7.5	9.9 x 9.9	27	77	1,9



LARISA

LISA

www.ledil.com/lisa

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



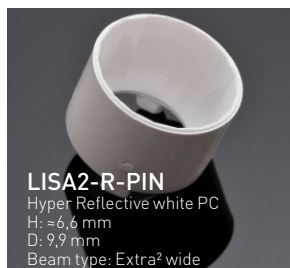
LISA-SS

PMMA / White PC
H: ≈7,3 mm, D: 10,8 mm
Beam type: Smooth spot

LISA2

www.ledil.com/lisa2

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



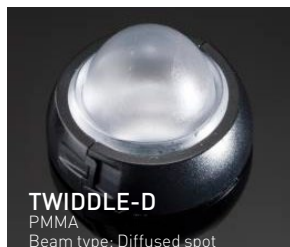
LISA2-R-PIN

Hyper Reflective white PC
H: ≈6,6 mm
D: 9,9 mm
Beam type: Extra² wide

TWIDDLE

www.ledil.com/twiddle

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



TWIDDLE-D

PMMA
Beam type: Diffused spot

Single lenses

TINA

www.ledil.com/tina

Name	Beam type	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
TINA-D	Diffused spot	≈ 10	16,1	16	92	6,1
TINA-M	Medium	≈ 10	16,1	29	88	2,1
TINA-O	Oval	≈ 10	16,1	34 x 15	89	3,4
TINA-RS	Real spot	≈ 10	16,1	13	93	10,9
TINA-W	Wide	≈ 10	16,1	48	91	1,3
TINA-WW	Extra wide	≈ 10	16,1	61	91	0,8



TINA-WW
PMMA / White PC
Beam type: Extra wide

TINA2

www.ledil.com/tina2

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



TINA2-R-CLIP16
Hyper Reflective white PC
H: 10,1 mm
D: 16,1 mm
Beam type: Wide

TINA3

www.ledil.com/tina3

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



TINA3-S
PMMA / White PC
Beam type: Spot

FLORENTINA

www.ledil.com/florentina

COMPATIBILITY

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

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



FLORENTINA

The information contained herein is the property of LEDiL Oy, Satorankatu 10, FI-24240 SALO, Finland, and is subject to change without prior notice. Please visit www.ledil.com for additional information, such as the latest photometric files, 3D mechanical models, and application notes relating to handling, gluing and taping.

FLORENTINA family

www.ledil.com/florentinafamily

COMPATIBILITY

- LEDiL standard ROSE lenses (up to 7070 size LED packages)

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

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

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

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

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)

FLORENTINA-4X1-SS	Smooth spot	17,72	175,6 x 55,6	16	81	8.5
FLORENTINA-4X1-RS	Real spot	17,72	175,6 x 55,6	TBA	TBA	
FLORENTINA-4X1-D	Diffused spot	17,72	175,6 x 55,6	18	77	6.6
FLORENTINA-4X1-M	Medium	17,72	175,6 x 55,6	30	75	2.4
FLORENTINA-4X1-O	Oval	17,72	175,6 x 55,6	44+15	74	3.0
FLORENTINA-4X1-W	Wide	17,72	175,6 x 55,6	36	69	1.5
FLORENTINA-4X1-MRK-S	Spot	17,72	175,6 x 55,6	28	TBA	2.1
FLORENTINA-4X1-MRK-M	Medium	17,72	175,6 x 55,6	39	75	1.5
FLORENTINA-4X1-MRK-W	Wide	17,72	175,6 x 55,6	49	73	0.8

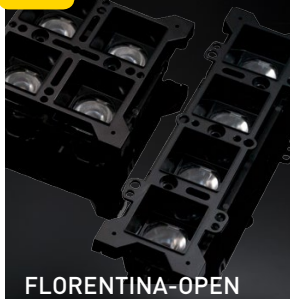
Also available with white shade

NEW!



FLORENTINA-1

NEW!



FLORENTINA-OPEN



FLORENTINA-2X2



FLORENTINA-4X1

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

ROSE

www.ledil.com/rose

COMPATIBILITY

- LED packages up to 5050 size

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

ROSE-MRK

www.ledil.com/rose-mrk

LEDiL's ROSE product family has been upgraded with the new MRK series. Having the same outer dimensions as the previously released ROSE-products they are compatible with numerous different lighting fixtures straight away. The lenses come preassembled in lightweight and durable holders with a long lasting fastening tape that makes their installation fast and easy.

COMPATIBILITY

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

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

ROSE-UV

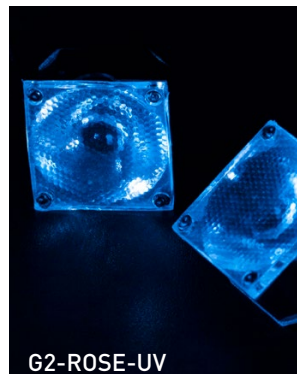
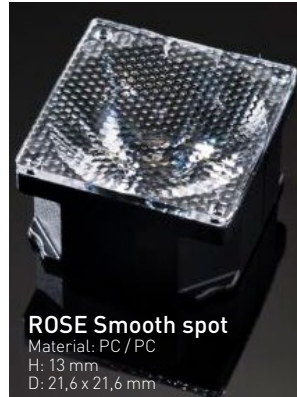
www.ledil.com/rose

LEDiL's next generation optics for UV-LEDs offers substantially improved performance and durability over the previous generation. With the introduction of new materials such as optical grade silicones LEDiL has been able to considerably increase optical efficiency and UV resistance of the optics.

COMPATIBILITY

- LEDs with dome up to 3535 size packages

Name	Beam type	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
G2-NIS033U-S	Spot	12,9	21,6x21,6	20	92	TBA
G2-NIS033U-M	Medium	12,9	21,6x21,6	25	91	TBA
G2-NIS033U-W	Wide	12,9	21,6x21,6	43	91	TBA
G2-ROSE-UV-SS	Smooth spot	12,9	21,6x21,6	TBA	TBA	TBA
G2-ROSE-UV-M	Medium	12,9	21,6x21,6	TBA	TBA	TBA
G2-ROSE-UV-W	Wide	12,9	21,6x21,6	TBA	TBA	TBA



LAURA-G2

www.ledil.com/laura

LAURA-G2 is the next generation of LEDiL's classic LAURA family featuring new thinner holder design. GenII optics are backwards compatible with previous generations and offer the same beam specifications and exceptional quality of light at even more affordable price.

Name	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
G2-LAURA-D-P	13.1	21.6x21.6	13	93	9,3
G2-LAURA-M-P	13.1	21.6x21.6	30	92	2,6
G2-LAURA-O-P	13.1	21.6x21.6	40 x 13	91	4,8
G2-LAURA-RS-P	13.1	21.6x21.6	8	93	33,2
G2-LAURA-SS-P	13.1	21.6x21.6	11	93	16,5
G2-LAURA-W-P	13.1	21.6x21.6	46	91	1,55
G2-LAURA-WW-P	13.1	21.6x21.6	66	86	0,7
G2-LAURA-R-XW-P	13.1	21.6x21.6	72	86	0,6
G2-LAURA-R-W-P	13.1	21.6x21.6	70	81	0,8
G2-LAURA-SS-WAS-P	13.1	21.6x21.6	Asym.	92	11,6
G2-LAURA-O-WAS-P	13.1	21.6x21.6	Asym.	84	2,6
G2-LAURA-O90-P	13.1	21.6x21.6	15+40	90	4,4



LAURA

www.ledil.com/laura

Name	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
LAURA-D	13	21.6x21.6	15	88	6,2
LAURA-M	13	21.6x21.6	29	88	2,5
LAURA-O	13	21.6x21.6	40 x 12	88	4,3
LAURA-RS	13	21.6x21.6	8	93	30,5
LAURA-SS	13	21.6x21.6	11	91	14,5
LAURA-W	13	21.6x21.6	42	88	1,7
LAURA-WW	13	21.6x21.6	66	86	0,70
LAURA-XW	13	21.6x21.6	72	85	0,6
LAURA-R-W	13	21.6x21.6	70	77	0,52



LEILA-G2

www.ledil.com/leila

New thinner holder design.
Backwards compatible with previous generations.

Code	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
CA14505_G2-LXP2-RS2-P	14.7	21.6	8,5	90	22,1
CA14506_G2-LXP2-RS2	14.7	21.6	8,5	90	22,1
CA14507_G2-LXP2-D-P	14.7	21.6	9,7	88	19,8
CA14508_G2-LXP2-D	14.7	21.6	9,7	88	19,8
CA14509_G2-LXP2-M-P	14.7	21.6	22	88	5,1
CA14510_G2-LXP2-M	14.7	21.6	22	88	5,2



LEILA

www.ledil.com/leila

Beam type code*	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
-MD	14.6	21.6	24	90	TBA
-O	14.6	21.6	39 x 11	88	4,8
-O-90	14.6	21.6	11 x 39	89	4,6
-REC	14.6	21.6	37 x 26	84	2,4
-RS	14.6	21.6	9,6	94	23,1
-RS2	14.6	21.6	8,5	90	22,1
-SS	14.6	21.6	12	TBA	TBA
-W	14.6	21.6	42	90	1,6
-WW	14.6	21.6	42	TBA	TBA
-WAS	14.6	21.6	Asymm.	84	4,0



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

Single lenses

SIRI-A

www.ledil.com/siri

SIRI family is a series of specialty optics for wide area lighting applications.

Code	Beam type	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
SIRI-A	Wide area lighting	4,2	13,9x13,9	74+134	95	0.3
SIRI-DOME	LED cover with 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



IRENE

www.ledil.com/irene

LEDiL's IRENE is especially developed with square beam-pattern for IR-CCT camera chip compatibility.

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

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



MIRA

www.ledil.com/mira

Available with or without holder.

Name	Beam type	Typ. FWHM	Typ. Eff.	Typ. cd/lm
MIRA-M	Medium	28	83	2,1
MIRA-W	Wide	38	82	1,5
MIRA-WW	Extra wide	58	83	0,9



EVA

www.ledil.com/eva

Name	Beam type	Typ. FWHM	Typ. Eff.	Typ. cd/lm
EVA-D	Diffused spot	16	80	4,92
EVA-M	Medium	24	89	3,2
EVA-O	Oval	38 x 17	85	3,06
EVA-S	Spot	13	93	6,3
EVA-W	Wide	38	83	1,4
EVA-WW	Extra wide	53	82	1,7
C10685_EVA-M	Medium	26	89	2,8



EVA-WW
PMMA / PC
H: 16,4 mm, D: 37,7 mm
Beam type: Extra wide

EYA

www.ledil.com/eya

Name	Beam type	H	D	Typ. FWHM
EYA-O	Oval	29,1	30,4	8+34
EYA-S	Spot	29,1	30,4	7



EYA-O
PMMA / PC
H: 29,1 mm
D: 30,4 mm
Beam type: Oval

IRINA

www.ledil.com/irina

Name	Beam type	H	D	Typ. FWHM	Typ. eff.	Typ. cd/lm
IRINA-RS	Real spot	11,7	24,7	7	93	12,2



IRINA-RS
PMMA / PC
H: 11,7 mm
D: 24,7 mm
Beam type: Real spot

EMILY

www.ledil.com/emily

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

NEW!



EMILY-WWW
PMMA,
H: 14,8 mm, D: 26 mm
Beam type: Extra wide

HEIDI

www.ledil.com/heidi

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



HEIDI-WR
PMMA
H: 11,7 mm, D: 21,6 mm
Beam type: Round

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

Single lenses

TITANUM / SPUTNIK

www.ledil.com/products

TITANUM / SPUTNIK family of optics for Osram and Seoul LEDs.

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



SPUTNIK-M
PMMA
H: 18,7 mm, D: 26 mm
Beam type: Medium

AMELIA

www.ledil.com/amelia

Name	Beam type	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
AMELIA-S	Spot	27,1	45	14	93	10.0



AMELIA-S
PC
D: 45 mm, H: 27,1 mm
Beam type: Spot

KIKI

www.ledil.com/kiki-a

KIKI-A lens designed for backlighting applications. It is carefully optimized for maximally uniform light distribution even with wider LED distances.

Name	Beam type	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
KIKI-A	Wide area lighting	5,9	21,6x14	163	92	0.28



KIKI-A
PMMA
Beam type:
Wide-Area Lighting

JULIA-A

www.ledil.com/julia

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



JULIA-A
PMMA
Wide area lighting

BILLIE

www.ledil.com/billie

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

Name	Beam type	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
BILLIE-A	Asymm.	16,1	21,5	Asymm.	88	2.1
BILLIE-B	Asymm.	16,1	21,5	Asymm.	93	2.2



BILLIE-A
PMMA / PC
Beam type: Asymm.

FLARE

www.ledil.com/flarefamily

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



FLARE-MAXI-T
PMMA
H: 15.5 mm
D: 45 x 28.4 mm
Beam type: Asymm.

VERONICA

www.ledil.com/veronica-family

TIR lens for installations with potting resin.

Name	Beam type	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
VERONICA-O	Oval	12.2	26	54 + 11	84	4,2
VERONICA-RS	Real spot	12.2	26	12	90	18,4
VERONICA-SQ-O	Oval	12.2	22.5x22.5	56+12	82	3,2
VERONICA-SQ-M	Medium	12.2	22.5x22.5	30	89	3,1
VERONICA-SQ-W	Wide	12.2	22.5x22.5	52	92	1,2
VERONICA-SQ-MINI-RS	Real spot	8,86	13.9x13.9	17	92	11
VERONICA-SQ-MINI-O	Oval	8,86	13.9x13.9	15+50	84	3,8
VERONICA-SQ-MINI-M	Medium	8,86	13.9x13.9	34	89	TBA
VERONICA-SQ-MINI-W	Wide	8,86	13.9x13.9	56	91	0,9
NEW VERONICA-SQ-MINI-D	Diffused spot	8,86	13.9x13.9	15	92	TBA



VERONICA

VERONICA-SQ

VERONICA-SQ-MINI

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

WINNIE

www.ledil.com/winnie

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

COMPATIBILITY

- COB's with LES sizes up to 21mm

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

CRYSTAL

www.ledil.com/crystal

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

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



CRYSTAL-RS

PMMA/PC

Beam type: Real spot

SEANNA-A

www.ledil.com/products

SEANNA's patent pending design has two optical elements. A primary TIR lens ensures that all light will hit the secondary Fresnel resulting in maximum performance and efficiency.

- Optimized for a variety of high power LED's
- Peak value at 25 m up to 800 cd/lm and spot as narrow as 1-3° depending on LED

Name	Beam type	H	D	Typ. FWHM	Typ. Eff.
SEANNA-A	Real Spot	79	152,6	2.3	87



SEANNA-A

SATU

www.ledil.com/satu

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

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

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

3 LEDs
PMMA
H: 9 mm
D: 35 mm
Beam type: Medium

GT4

www.ledil.com/gt4

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



GT4

ANGIE

www.ledil.com/angie

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

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

Multi-lens arrays

ANNA

www.ledil.com/anna

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

Name	Beam type	LED sources	D	H	Typ. FWHM	Typ. Eff.	Typ. cd/lm					
ANNA-40-3-M	M	3	40	10,7	22	88	3,7					
ANNA-40-4-M		4										
ANNA-40-5-M		5										
ANNA-40-6-M		6										
ANNA-40-7-M		7										
ANNA-50-3-M		3						50				
ANNA-50-4-M		4										
ANNA-50-5-M	5											
ANNA-50-6-M	6											
ANNA-50-7-M	7	M	40	10,7	25	87	3,2					
ANNA-40-7-M2	7											
ANNA-40-3-S	3							40	10,7	15	91	8,5
ANNA-40-4-S	4											
ANNA-40-5-S	5											
ANNA-40-6-S	6											
ANNA-40-7-S	7											
ANNA-50-3-S	3	50										
ANNA-50-4-S	4											
ANNA-50-5-S	5											
ANNA-50-6-S	6											
ANNA-50-7-S	7	S	40	10,7	15	85	TBA					
ANNA-40-7-S-PC	7											
ANNA-40-3-W	3							40	10,7	32	86	1,9
ANNA-40-4-W	4											
ANNA-40-5-W	5											
ANNA-40-6-W	6											
ANNA-40-7-W	7											
ANNA-50-3-W	3	50										
ANNA-50-4-W	4											
ANNA-50-5-W	5											
ANNA-50-6-W	6											
ANNA-50-7-W	7	WW	40	12,5	64	90	0,9					
ANNA-40-7-WW	6											

ANNA-50-5-S



ANNA-40-4-S

D: 40 mm
4 LEDs
PMMA
Beam type: Spot



ANNA-40-3-M

D: 40 mm
3 LEDs
PMMA
Beam type: Medium



NIS83-MX-7-M



NIS83-MX-5-W

TAMPA

www.ledil.com/tampa

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

PENTA

www.ledil.com/penta

Name	Beam type	LEDs	H	D	Typ. FWHM
NIS83-MX-5-W	W	5	6,8	35,5	36
PENTA-5-M	M	5	7,2	35,5	30
RER-5-M	M	5	6,8	35,5	28

The information contained herein is the property of LEDiL Oy, Satorankatu 10, FI-24240 SALO, Finland, and is subject to change without prior notice. Please visit www.ledil.com for additional information, such as the latest photometric files, 3D mechanical models, and application notes relating to handling, gluing and taping.

QUAK

www.ledil.com/quak

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

NIS83-MX-4-M

D: 50 mm
4 LEDs
PMMA
Beam type:
Medium



MELODY

www.ledil.com/melody

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

MELODY-3-M

D: 50,6 mm
H: 11,9 mm
3 LEDs
PMMA
Beam type:
Medium



DOLLY

www.ledil.com/dolly

Name	Beam type	LEDs	H	D	Typ. FWHM
APOLLO-3-S	S	3	19,4	50	10
LAIKA-3-S	S	3	20,4	50	10
TITANUM-3-S	S	3	18,4	50	15
TITANUM-3-M	M	3	19,9	50	30
LAIKA-3-M	M	3	20,4	50	28



TUIJA

www.ledil.com/tuija

Name	Beam type	LEDs	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
TUIJA-3-M	M	3	14,5	50	16	84	5,6
TUIJA-3-M2	M	3	14,5	50	35	87	2
TUIJA-3-SS	SS	3	14,5	50	12	90	12,9
TUIJA-3-W	W	3	14,5	50	53	86	0,9



MARTHA

www.ledil.com/martha

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

PLATINUM ROCKET-3-SS

3 LEDs, PMMA
Beam type:
Smooth spot



EMY

www.ledil.com/emy

Name	Beam type	LEDs	H	D	Typ. FWHM
EMY-S	Smooth spot	6	14,4	50	92

EMY-S

6 LEDs
PMMA
Beam type:
Smooth spot



Multi-lens arrays

SANDRA

www.ledil.com/sandra

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

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

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



PETUNIA

www.ledil.com/petuniafamily

SOLUTION FOR PLANT LIGHTING

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

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



VANESSA

www.ledil.com/vanessafamily

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



IDA

www.ledil.com/idafamily

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

COMPATIBILITY

- Mid-power LEDs up to 3535 sizes



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

LUCIA

www.ledil.com/lucia

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

Code	Beam type	LEDs	H	D	Typ. FWHM	Typ. eff.	Typ. cd/lm
LUCIA-S	Spot	4	34,68	90 x 90	15	93	21.2
LUCIA-D	Diffused spot	4	34,68	90 x 90	7	88	37.5

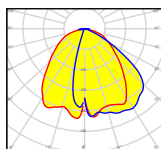


SHELLY

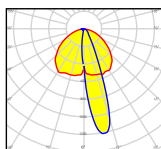
www.ledil.com/shelly

Quality shelf lighting

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



SHELLY-T-6X1-N
6 LEDs
PMMA
D: 119.8x19.6mm
H: 7 mm



SHELLY-T-6X1-WAS
6 LEDs
PMMA
D: 119.8 x 19.6mm
H: 7,6 mm

ZENIA

www.ledil.com/zenia

ZENIA optics are designed to illuminate the backdrop inside the shelves. Also suited for wall-washing and stair lighting applications. Linear optics that work with any distance between the mid-power LEDs. Modular breakable design at 15 mm intervals allows installation to any width. Designed to be installed as such, into an aluminum profile or as an recessed luminaire.



ZENIA
PMMA
H: 5,97 mm
D: 16,2 x 119,8 mm

Multi-lens arrays

LINNEA

www.ledil.com/linnea

- 40mm wide PC lens with a diffused surface and a low profile
- Lens clips to a metal sheet or profile while resting on top of the PCB
- Enough space for board-to-board connections

COMPATIBILITY

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

COMING SOON



LINNEA-90
D: 285 x 40 mm
H: 9,5 mm
PC

Name		H	D	Typ. FWHM	Typ. Eff.
LINNEA-60	COMING SOON	12	280x40	60	TBA
LINNEA-90	COMING SOON	9,5	280x40	90	85

FLORENCE-1R-GC

www.ledil.com/1r-gc

- Fixed led pitch of 24 x 11.62mm
- Excellent longitudinal glare control to allow below 19 UGR ratings
- Optimized LED layout to increase light in the desired area
- Special surface smoothens out and removes unwanted color-over-angle artefacts
- Optional clips available for easier installation and continuous rows

COMPATIBILITY

- Mid-power LEDs up to 5630 package size

NEW!



FLORENCE-1R-GC-Z90
D: 282,6x19 mm
H: 6,9 mm
PMMA

FLORENCE-3R-IP

www.ledil.com/florencefamily

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

COMPATIBILITY

- Range of 3x11 mid-power LED modules

NEW!

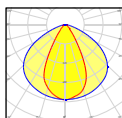


FLORENCE-3R-IP-Z90
D: 321 x 75 mm
H: 10,5 mm
24 LEDs
PC

FLORENCE-1R

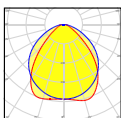
www.ledil.com/florence-1r

- Linear optical design is compatible with a range of different LED pitches
- Retaining clips that connect lenses into a continuous row
- Lens can easily be snapped into three smaller 95 mm long pieces



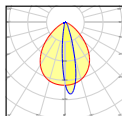
FLORENCE-1R-Z60

D: 19,5 x 286 mm
H: 7,6 mm
PMMA



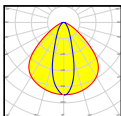
FLORENCE-1R-Z90

D: 19,5 x 286 mm
H: 7 mm
PMMA



FLORENCE-1R-MAXI-WG

D: 21,7 x 286 mm
H: 11,04 mm
PMMA

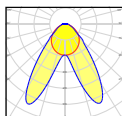


FLORENCE-1R-O

D: 19,5 x 286 mm
H: 7 mm
PMMA

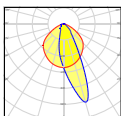


FLORENCE-1R-UP



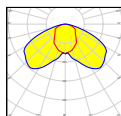
FLORENCE-1R-Z2T25

D: 19,5 x 286 mm
H: 6,4 mm
PMMA



FLORENCE-1R-ZT25

D: 19,5 x 286 mm
H: 7,13 mm
PMMA



FLORENCE-1R-UP

D: 19,5 x 286 mm
PMMA

Name	Beam type	Typ. FWHM	Typ. eff.	Typ. cd/lm
FLORENCE-1R-Z90	Extra wide	90 + 110	94	0,4
FLORENCE-1R-Z60	Medium	58 + 111	94	0,6
FLORENCE-1R-ZT25	Asymmetric	TBA	86	1,0
FLORENCE-1R-Z2T25	Double asymm.	106 + 80	92	0,49
FLORENCE-1R-O	Oval	96 + 32	94	0,9
FLORENCE-1R-MAXI-WG	Asymmetric	TBA	94	1,4
FLORENCE-1R-UP	Wide area lighting	TBA	TBA	TBA
FLORENCE-1R-CLIP-A	Clip for installation on a plate			
FLORENCE-1R-CLIP-B	Clip for installation on a profile			
FLORENCE-1R-CLIP-C	Clip for fastening of FLORENCE-1R optics and 24 mm wide Zhaga modules			

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

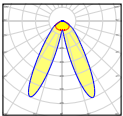
FLORENCE-3R

www.ledil.com/florence-3r

- Zhaga book 7 compliant modular solution
- Unified Glare Rating below 19 achievable with the additional FLORENCE-shades

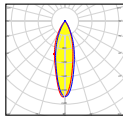
COMPATIBILITY

- Range of 3x11 mid-power LED modules



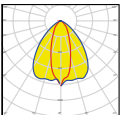
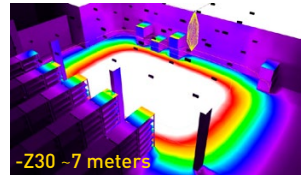
FLORENCE-ZT25

D: 61 x 286 mm
H: 11 mm
PMMA



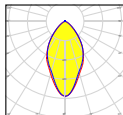
FLORENCE-Z30

D: 61 x 286 mm
H: 8.5 mm
PMMA



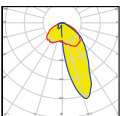
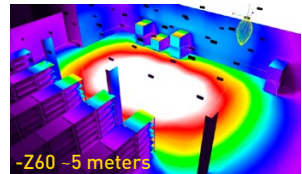
FLORENCE-O

D: 61 x 286 mm
H: 8.45 mm
PMMA



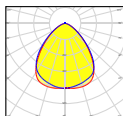
FLORENCE-Z60

D: 61 x 286 mm
H: 8.5 mm
PMMA



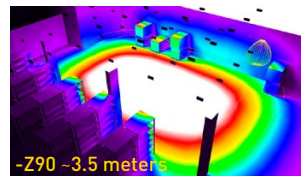
FLORENCE-ZT25-S

D: 61 x 286 mm
H: 11,38 mm
PMMA



FLORENCE-Z90

D: 61 x 286 mm
H: 8.45 mm
PMMA



Name	Beam type	Typ. FWHM	Typ. eff.	Typ. cd/1m
FLORENCE-Z30	M	29	94	2,2
FLORENCE-Z60	W	58	88	0,8
FLORENCE-Z90	WWW	92	86	0,4
FLORENCE-ZT25	Asymmetric	Asymm.	94	0,6
FLORENCE-O	Oval	84 + 35	89	TBA
FLORENCE-ZT25-S	Single-sided asymmetric oval	Asymm.	94	0,6
FLORENCE-3R-SHD-BLK	Black shade to obtain lower UGR			
FLORENCE-3R-SHD-GR	Grey shade to obtain lower UGR			
FLORENCE-3R-SHD-WHT	White shade			

MINNIE

www.ledil.com/minnie

Available with or without holder. Diameter 35 mm (32,4 mm without holder), typical height ≈15 mm.

MINNIE-LT-W

PC
H: 15,6 mm, D: 35 mm
Beam type: Wide

MINNIE-LT-M

PC
H: 15,6 mm, D: 35 mm
Beam type: Medium

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



BOOM

www.ledil.com/boom

Code	Typ. FWHM	Typ. cd/lm
BOOM-M	32	1,9
BOOM-S	18	3,6
BOOM-W	55	1,1
BOOM-XW	70	0,67

BOOM-XW

Hyper Reflective PC
H: ≈14 mm
D: 22,2 mm
Beam type: Extra² W



BRITNEY

www.ledil.com/britney

Code	Typ. FWHM	Typ. eff.
BRITNEY-M	28	92
BRITNEY-W	48	92
BRITNEY-XW	74	96

BRITNEY-XW

Hyper Reflective PC
H: 38,4 mm, D: 70 mm
Beam type: Extra² Wide
FWHM: 74°



BOOMERANG

www.ledil.com/boomerang

BOOMERANG

Metallized PC
H: ≈14 mm
D: 22,2 mm
Beam type: Spot



BRIDGET / LILY / CINDY

www.ledil.com/products

Code	Typ. FWHM	Typ. eff.	Typ. cd/lm
-M	41	87	1,5
-S	31	89	1,5
-W	57	88	1,1
BRIDGET-S-UNI	44	85	1,0
BRIDGET-M-UNI	52	84	1,1
BRIDGET-W-UNI	61	87	1,0

-S

Metallized PC
H: 12,8 mm
D: 22,6 mm
Beam type: Spot



BROOKE-G2

www.ledil.com/brooke-g2

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

COMPATIBILITY

- **BROOKE-G2:** up to 18mm LES sizes
- **BROOKE-G2+HEKLA:** up to 13mm LES sizes

NEW!



NN
KONTRAKT

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
BROOKE-G2-S-RZ	21.7	45	17	TBA	TBA
BROOKE-G2-M-RZ	21.7	45	24	TBA	TBA
BROOKE-G2-W-RZ	21.7	45	38	TBA	TBA
F15253 HEKLA-SOCKET-A	V6, V8				
F15254 HEKLA-SOCKET-B	CXA/B1850, CXA/B1816/20, H12				
F15255 HEKLA-SOCKET-C	CLL02x/CLU02x LES10, CLU025/027, CLU700/701, ZC-4/ ZC-6, SLE-G5 LES6 or LES11, LC003D/6D/9D/13D, LC006B/LC008B, V10, SoleriqS9, LPTL-M082, CXA/B1310, CXM-9(AC00)				
F15256 HEKLA-SOCKET-D	CXA/B1520, CXB1507, CXB1512, H9				
F14988 HEKLA-SOCKET-E	V10/13				
F15616 HEKLA-SOCKET-G	VER010				

BROOKE

www.ledil.com/brooke

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-VER010	Socket to position and hold BRX Vero10		

BROOKE-SCR-M

Metallized PC

H: 20,2 mm

D: 45 mm

Beam type: Medium



VENLA

www.ledil.com/venla

Name	Typ. FWHM	Typ. eff.
C11773_VENLA-S	13	TBA
C11775_VENLA-M	28	90
C11776_VENLA-W	45	TBA
C11777_VENLA-WW	56	87
CP12090_VENLA-S-IRIS	18	93

VENLA-WW

Metallized PC

H: 25 mm

D: 45 mm

Beam type: Extra wide



RITA

www.ledil.com/rita

Name	Beam type	H	D	Typ. Eff.	Typ. cd/lm
RITA-A	Asymm.	17	36x28,4	87	0,6
RITA-WAS	Asymm.	17	31,9x28,4	85	0,63
RITA-A-RZ	Asymm.	19	35x29	82	0,6
RITA-WAS-RZ	Asymm.	19	35x29	80	0,6

RITA-WAS-RZ

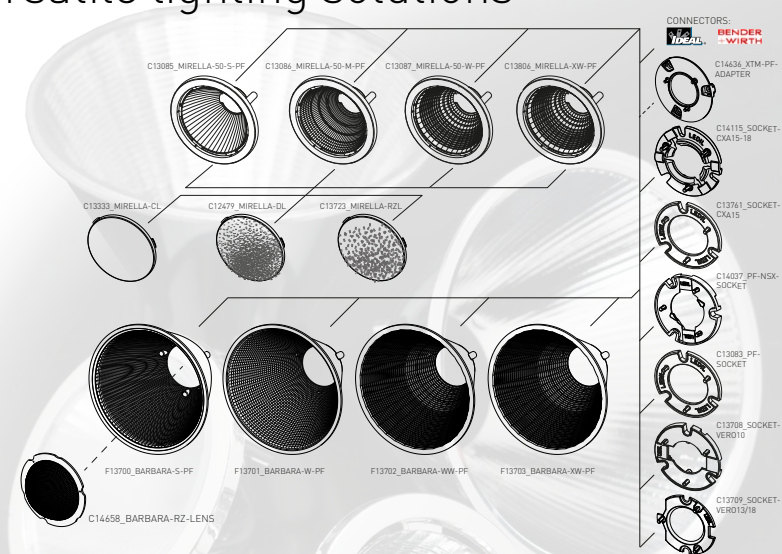
Hyper Reflective PC

H: ~19 mm, D: 35 x 29 mm

Beam type: Asymm.



LEDiL's PF-system reflectors – Versatile lighting solutions



BARBARA

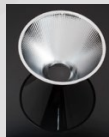
www.ledil.com/barbara

Code	LED	Typ. FWHM	Typ. eff.
BARBARA-S		17	90
BARBARA-S-PF		TBA	TBA
BARBARA-S-PF	CXA15	21	86
BARBARA-S-PF	VERO10	21	88
BARBARA-S-PF	VERO13/18	22	91
BARBARA-S-PF-RZ	CXA15	12	85
BARBARA-W-PF		TBA	TBA
BARBARA-W-PF	CXA15	24	85
BARBARA-W-PF	VERO10	29	78
BARBARA-W-PF	VERO13/18	45	92
BARBARA-W-PF-RZ	CXA15	28	85
BARBARA-WW-PF		TBA	TBA
BARBARA-WW-PF	CXA15	64	84
BARBARA-WW-PF	VERO10	68	77
BARBARA-WW-PF	VERO13/18	58	91
BARBARA-WW-PF-RZ	CXA15	67	85
BARBARA-XW		75	90
BARBARA-XW-PF		74	91
BARBARA-XW-PF	VERO13/18	72	93
BARBARA-XW-PF-RZ	CXA15	73	85
XTM-PF-ADAPTER	Adapter ring for Xicato XTM/XIM modules		
BARBARA-PF-V8	PF connector for BARBARA family, LES sizes up to VERO8		



BARBARA-W-PF

Metallized PC
H: 44,7 mm
D: 70 mm
Beam type: Wide



BARBARA-S

Metallized PC
H: 44,7 mm
D: 70 mm
Beam type: Spot



BARBARA-XW

Hyper Reflective PC
H: 44,7 mm
D: 70 mm
Beam type: Extra² W

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

MIRELLA

www.ledil.com/mirellafamily

- Manufactured from impact-resistant, UL 94 V-2 rated, polycarbonate
- Available with an optional clear, diffusing or mixing lens, molded from PMMA
- Optimized for use with larger single-die lighting class LEDs and COB array LEDs

Code	Typ. FWHM	Typ. Eff.	Typ. cd/lm	Fastening
MIRELLA-50-M	27	90	2,8	glue
MIRELLA-50-M-CL				glue
MIRELLA-50-M-CL-PF	30	87	2,5	socket, screw
MIRELLA-50-M-DL	34	84	1,9	glue
MIRELLA-50-M-DL-PF	30	85	2,3	socket, screw
MIRELLA-50-M-PF	32	88	1,9	socket, screw
MIRELLA-50-M-PF-RZL	38	81	1,5	socket, screw
MIRELLA-50-M-PF-VERO10	28	85	2,2	socket, screw
MIRELLA-50-M-PF-VERO13/18	34	88	1,8	socket, screw
MIRELLA-50-M-PIN	23	86	3,2	pin
MIRELLA-50-M-PIN-CL	26	84	2,5	pin
MIRELLA-50-M-PIN-DL	34	80	1,6	pin
MIRELLA-50-M-PIN-RZL	34	83	1,6	pin
MIRELLA-50-M-RZL				glue
MIRELLA-50-S	15	92	8,5	glue
MIRELLA-50-S-CL-PF	16	84	6,0	socket, screw
MIRELLA-50-S-DL	20	85	4,9	glue
MIRELLA-50-S-DL-PF	17	84	4,3	socket, screw
MIRELLA-50-S-PF	17	88	5,4	socket, screw
MIRELLA-50-S-PF-RZL	22	82	3,1	socket, screw
MIRELLA-50-S-PF-VERO10	20	88		socket, screw
MIRELLA-50-S-PF-VERO13/18	25	89	2,5	socket, screw
MIRELLA-50-S-PIN	11	87	12,3	pin
MIRELLA-50-S-PIN-DL	15,3	82	5,5	pin
MIRELLA-50-S-PIN-RZL	18	83	3,4	pin
MIRELLA-50-S-RZL				glue
MIRELLA-50-W	41	90	1,6	glue
MIRELLA-50-W-CL	46	84	1,3	glue
MIRELLA-50-W-CL-PF	46	85	1,3	socket, screw
MIRELLA-50-W-DL	47	83	1,2	glue
MIRELLA-50-W-DL-PF	45	85	1,3	socket, screw
MIRELLA-50-W-PF	43	87	1,3	socket, screw
MIRELLA-50-W-PF-RZL	47	81	1,2	socket, screw
MIRELLA-50-W-PF-VERO10	41	85	1,5	socket, screw
MIRELLA-50-W-PF-VERO13/18				socket, screw
MIRELLA-50-W-PIN	33	86	1,6	pin
MIRELLA-50-W-PIN-CL	44	84	1,4	pin
MIRELLA-50-W-PIN-DL	47	81	1,2	pin
MIRELLA-50-W-PIN-RZL	48	81	1,1	pin
MIRELLA-50-W-RZL				glue
MIRELLA-50-XW	80	93	0,6	glue
MIRELLA-50-XW-PF	78	92	0,6	socket, screw
MIRELLA-50-XW-PF-VERO10	74	92	0,6	socket, screw



MIRELLA-50-S-PF
Metallized PC
H: 24 mm
D: 49,9 mm
Beam type: Spot



MIRELLA-50-M-PF
Metallized PC
H: 24,8 mm
D: 49,9 mm
Beam type: Medium



MIRELLA-50-W-DL-PF
Metallized PC / PC
H: 25,5 mm
D: 49,9 mm
Beam type: Wide



CN13905_MIRELLA-50-S-PF-RZL
Metallized PC / PC
H: 24,8 mm
D: 49,9 mm
Beam type: Spot

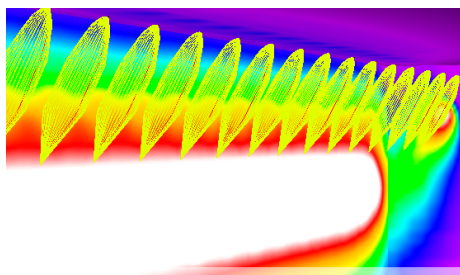
ANGELETTE

www.ledil.com/angelette-family

ANGELETTE's smooth, glare free and uniform light pattern is optimized for high quality office, hospitality and museum lighting.



Code	Beam type	Diameter	Height	Typ. FWHM	Typ. Eff.	Typ. cd/lm
ANGELETTE-WAS	Asymm.	97.2 x 83.4	84	Asymm.	92	1.4
ANGELETTE-S	Spot	110	57.3	15	90	5.3
ANGELETTE-S-B	Spot	110	57.3	TBA	TBA	TBA
ANGELETTE-S-PLAIN	Spot	110	57.3	10	89	8.1
ANGELETTE-S-B-PLAIN	Spot	110	57.3	TBA	TBA	TBA
ANGELETTE-M	Medium	110	57.3	50	89	1.2
ANGELETTE-M-B	Medium	110	57.3	TBA	TBA	TBA
ANGELETTE-M-PLAIN	Medium	110	57.3	54	89	1.1
ANGELETTE-M-B-PLAIN	Medium	110	57.3	TBA	TBA	TBA
ANGELETTE-WW	Extra wide	110	57.3	70	90	0.8
ANGELETTE-WW-B	Extra wide	110	57.3		TBA	TBA
ANGELETTE-WW-PLAIN	Extra wide	110	57.3		TBA	TBA
ANGELETTE-WW-B-PLAIN	Extra wide	110	57.3		TBA	TBA
ANGELETTE-LENS	Additional lens accessory for symmetrical ANGELETTE reflectors					
ANGELETTE-DL	Diffusing lens for symmetrical ANGELETTE reflectors					



TYPICAL APPLICATION OF ANGELETTE-WAS

- Ceiling height 4 m, wall width 12m, 15 luminaires installed on a track suspended 20 cm lower
- Track installed 1.5 m distance from the wall
- Distance between luminaires 80 cm
- Each luminaire flux 4000 lm
Eav: 755 lx, Emax: 1340 lx, U0: 0.1614



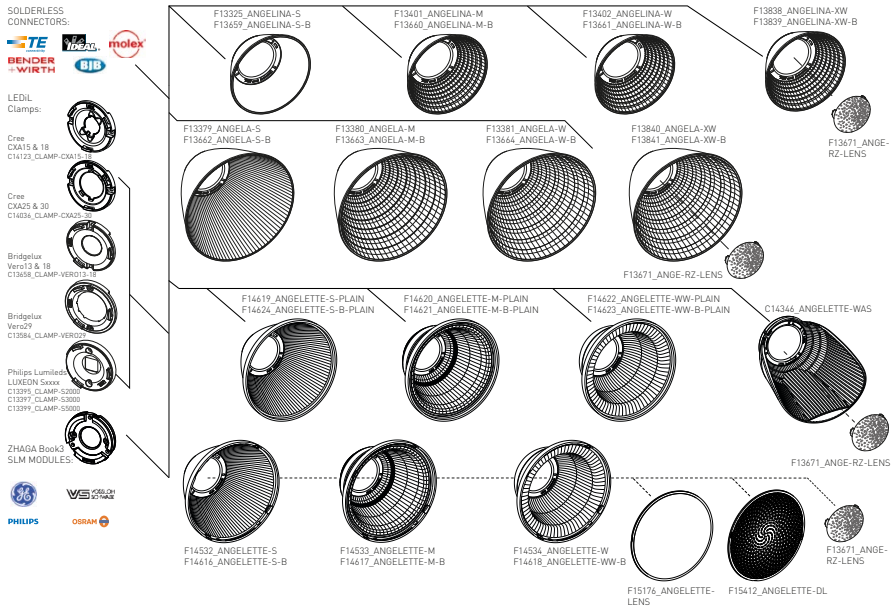
ANGELETTE-WAS

H: 84 mm
D: 97.2 x 83.4 mm
Efficiency: 92%
Beam type: 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 optical datasheets.

ANGELA / ANGELINA

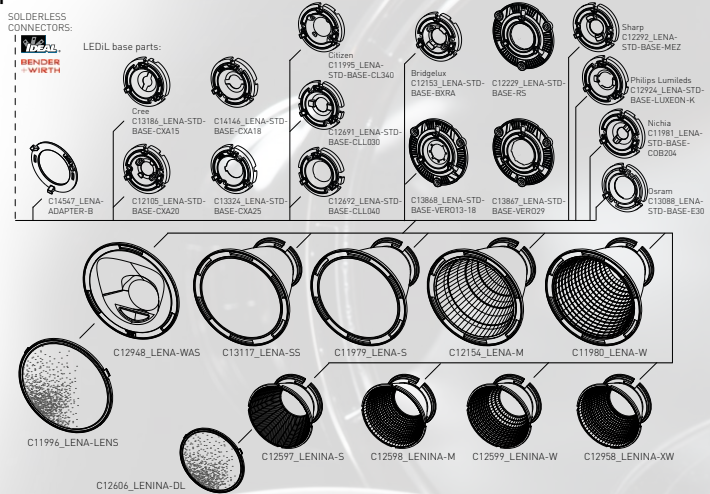
www.ledil.com/angela-family
www.ledil.com/angelina-family



Code	Beam type	Diameter	Height	Typ. FWHM	Typ. Eff.	Typ. cd/lm
ANGELA-S	Spot	119,5	79,3	25	89	3,2
ANGELA-M	Medium	119,5	79,3	32	89	2,5
ANGELA-W	Wide	119,5	74,5	46	89	1,4
ANGELA-XW	Wide	119,5	74,5	72	93	0,6
ANGELA-XW-B	Wide	119,5	74,5	36	93	2,1
ANGELINA-S	Spot	82	31	39	90	1,2
ANGELINA-M	Medium	82	31	32	92	1,6
ANGELINA-W	Wide	82	31	47	92	1,1
ANGELINA-RZ-S	Spot	82	31	31	88	1,4
ANGELINA-RZ-M	Medium	82	31	43	89	1,1
ANGELINA-RZ-W	Wide	82	31	54	89	1,0
ANGELINA-XW	Wide	82	31	91	93	0,46
ANGELINA-XW-B	Wide	82	31	91	94	0,53
ANGELINA-M-B	Medium	82	31	39	91	1,3
ANGELINA-W-B	Wide	82	31	51	91	1,0

The information contained herein is the property of LEDIL Oy, Satorankatu 10, FI-24240 SALO, Finland, and is subject to change without prior notice. Please visit www.ledil.com for additional information, such as the latest photometric files, 3D mechanical models, and application notes relating to handling, gluing and taping.

One system,
endless possibilities



LENA

www.ledil.com/lenafamily

Code	Beam type	Diameter	Height	Typ. FWHM	Typ. Eff.	Typ. cd/lm
LENA-M	M	111	86	22	83	2,5
LENA-M-DL	M	111	87	22	77	3,4
LENA-S	S	111	86	11	85	7,6
LENA-S-DL	S	111	87	14	80	5,6
LENA-SS	SS	111	86	18	82	5
LENA-SS-DL	SS	111	87	16	74	5
LENA-W	W	111	86	46	82	1,3
LENA-WAS	WAS	111	37	Asym	82	1,1
LENA-WAS-DL	WAS	111	41,2	Asym	76	0,86
LENA-W-DL	W	111	87	45	75	1,3
LENA-X-WAS	WAS	111	37	Asym	87	0,5
LENA-X-WAS-DL	WAS	111	42	Asym	80	0,52
LENA-ADAPTER-B	Adapter ring for BJB interface					

LENINA

www.ledil.com/leninafamily

Code	Beam type	Diameter	Height	Typ. FWHM	Typ. Eff.	Typ. cd/lm
LENINA-M	M	74	46	31	87	2,1
LENINA-M-DL	M	74	48	35	80	1,6
LENINA-S	S	74	46	19	88	4,5
LENINA-S-DL	S	74	48	23	81	3,1
LENINA-W	W	74	46	53	87	1,1
LENINA-W-DL	W	74	48	54	80	1
LENINA-XW	XW	74	46	73	89	0,6
LENINA-XW-DL	WWW	74	48	68	82	0,6
LENA-ADAPTER-B	Adapter ring for BJB interface					

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

RGB-MIXING

www.ledil.com/rgb

- LEDiL patented color-mixing technology and micro-lens structure

Typical applications:

- RGBX for stage lighting and architectural applications
- Adaptive color temperature
- Perfect CRI



COMING SOON

GABRIELLA-45-S

H: 29 mm

D: 45 mm

Efficiency: 90%

Typ. FWHM: 9°

Beam type: spot

COMPATIBILITY

Optimized for 5050 sized RGB LEDs



ANGELINA-RZ-S

PC / PC

H: 31 mm

D: 82 mm

Beam type: Spot

FWHM: 26°



ANGELA-RZ-W

PC / PC

H: 74,5 mm

D: 119,5 mm

Beam type: Wide

FWHM: 31°



GERI-RZ

PMMA/PC

H: 32,8 mm

D: 45 x 45 mm

Beam type: Wide

FWHM: 31°



RITA-A-RZ

Hyper Reflective PC

H: ≈19 mm

D: 35,1 x 28,9 mm

Beam type: Asymm.



RITA-WAS-RZ

Hyper Reflective PC

H: ≈17 mm

D: 31,9 x 28,4 mm

Beam type: Asymm.



REBECCA

PMMA / PC

H: 29,9 mm

D: 42 mm



MIRELLA-RZL

PC / PC

D: 49,9 mm

H: 25,8 mm

Beam types: -S, -M, -W, -XW

Code	Typ. FWHM	Typ. eff.	Typ. cd/lm
RGBX-M	30	70	TBA
RGBX-0	48+25	70	TBA
RGBX-SS	20	85	3,8
RGBX2-M	34	68	1,5
RGBX2-0	48+24	66	1,5
RGBX2-S	20	77	4,6
ANGELA-RZ-S	10	90	11,0
ANGELA-RZ-M	18	84	3,0
ANGELA-RZ-W	38	83	1,4
ANGELA-RZ-XW	72	89	0,6
ANGELINA-RZ-S	25	89	1,8
ANGELINA-RZ-M	37	89	1,3
ANGELINA-RZ-W	54	89	1,0
ANGELINA-RZ-XW	88	91	0,5
REBECCA-RZ-WW	38	69	0,98
BARBARA-S-PF-RZ	13	86	7,4
BARBARA-W-PF-RZ	30	85	2,2
BARBARA-WW-PF-RZ	67	85	1,2
BARBARA-XW-PF-RZ	73	85	0,3

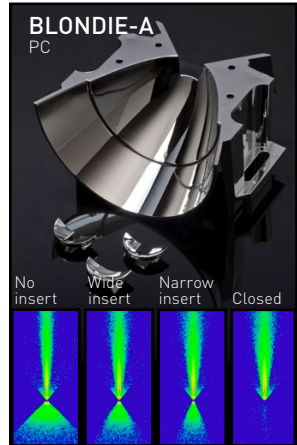
BLONDIE

www.ledil.com/blondie

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

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

Name	Beam type	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
BLONDIE-A						



HELENA

www.ledil.com/helena

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

Name	Beam type	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
HELENA-A	Medium	11	72,8			
HELENA-B	Medium	11	72,8			



DOROTHY

www.ledil.com/dorothy

DOROTHY is an array of 4 side-emitting optics. It is designed for wide area lighting applications, especially anti-panic area lights.

Name	Beam type	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
DOROTHY-4-A	Wide area	4.5	50.6	152	94	0,3
DOROTHY-4-B	Side-Emitting	4.5	50.6	157	94	0,3

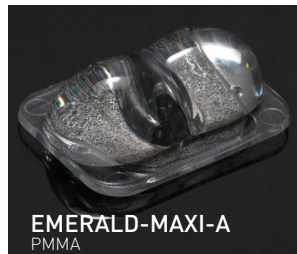


EMERALD

www.ledil.com/emerald

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

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



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

RONDA

www.ledil.com/ronda

- 70mm diameter and low profile design with easy integration in luminaires
- Patent pending multi refraction optical technology allows excellent optical performance
- Various beam options makes RONDA an ideal and modern choice for wide range of downlight solutions

COMPATIBILITY

- LES sizes up to ~16mm



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

CARMEN

www.ledil.com/carmen

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

COMPATIBILITY

- LES sizes up to 10mm

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



OLIVIA

www.ledil.com/olivia

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

COMPATIBILITY

- LES sizes up to 19 mm

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



FRIDA-A

www.ledil.com/frida

FRIDA-A FOR REFRIGERATOR LIGHTING

- Luminaire row installation along the centerline of the cabinet
- Emits light sideways giving optimal shelf illumination



FRIDA-A

PMMA
H: 9,8 mm
D: 12,2 x 7,9 mm
Beam type: Wide area lighting

VENLA-IRIS

www.ledil.com/venla

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



VENLA-S-IRIS

PMMA/PC
H: 27,2 mm
D: 45 mm
Beam type: Spot

SOPHIE

www.ledil.com/sophie

SOPHIE linear optic is an excellent choice for backlighting and shelf lighting applications. It's asymmetric beam provides uniform illumination when installed inside the shelf - making your goods look great.



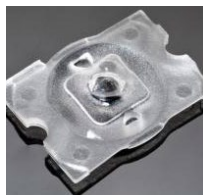
SOPHIE

PMMA
H: 10,4 mm
D: 150 mm
Beam type: Asymmetric

LOTTA-A

www.ledil.com/lotta

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



LOTTA-A

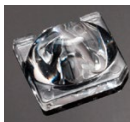
PMMA
H: 3,6 mm
D: 19,6 + 15,4 mm
Beam type: Wide area lighting

OONA-A

www.ledil.com/oona

OONA-A

PMMA
H: 4,5 mm
D: 9,9 x 9,9 mm
Beam type: Oval



EMMA

www.ledil.com/emma

EMMA-A

PMMA
H: 5,7 mm
D: 9,9 x 9,9 mm
Beam type: Side emitter



STRADA-S

www.ledil.com/products



STRADA-S-14

Name	Beam type	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
STRADA-S	Side emitter	6,9	19,6x15,5	144+170	93	0.36
STRADA-S-14	Side emitter	6,5	19,6x13,8	142+170	94	0.36

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

JENNY

www.ledil.com/jennyfamily

Cost effective silicone lens family. Comes either as a single lens or in a 8 lens array with possibility to separate lenses individually. Can be installed with glue or optional holder.

COMPATIBILITY

- Ideal for 4-chip ultra high power LEDs

NEW!



Code	Height	Dimensions	Typ. eff.	Typ. FWHM
JENNY-CY	11.5	35 x 35	94	106+106
JENNY-8X1-CY	11.5	280 x 35	94	106+106
JENNY-T4	17	35 x 35	92	Asymm.
JENNY-8X1-T4	17	280 x 35	92	Asymm.
JENNY-20	14,52	35 x 35	96	20
JENNY-8X1-20	14,52	280 x 35	96	20
JENNY-40	15	35 x 35	96	40
JENNY-8X1-40	15	280 x 35	96	40
JENNY-60	13,42	35 x 35	94	60
JENNY-8X1-60	13,42	280 x 35	94	60
JENNY-FT45	20,65	35 x 35	92	Asymm.
JENNY-8X1-FT45	20,65	280 x 35	92	Asymm.
JENNY-HLD-A-BLK	5	34,8 x 50		
JENNY-2X2-HLD	9.6	89.5 x 89.5		

ZORYA

www.ledil.com/zorya

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

COMPATIBILITY

ZORYA-SC-50: LES sizes from 6 mm to 24 mm

ZORYA-MINI: For high power LEDs up to 7070 size packages

NEW!



Code		Height	Dimensions	Typ. eff.	Typ. FWHM
ZORYA-SC-50	BJB 47.319.2021 compatible	35	55	97	245
ZORYA-MINI	PC lens	14,6	22	98	145

SAGA

www.ledil.com/sagafamily

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

Name	Beam type	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
SAGA-HB-IP-WHT	High Bay	12	50	62	90	0.75
SAGA-S-WHT	Spot	13,7	50	29	93	TBA



STELLA

www.ledil.com/stellafamily

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

COMPATIBILITY

- Designed for big COB LEDs (typically up to 23mm LES)



Code	Height	Diameter	Typ. eff.	Typ. FWHM
STELLA-A	22	90	92	Asymm.
STELLA-HB	19,5	90	93	76
STELLA-HB-WWW NEW	11,3	90	88	97
STELLA-T4	26,9	90	92	Asymm.
STELLA-VSM NEW	20,7	90	TBA	TBA
STELLA-FRESNEL	23	90	89	27
STELLA-DWC2	19,27	90	92	Asymm.
STELLA-CLAMP-CXA15-18				

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

NEW!



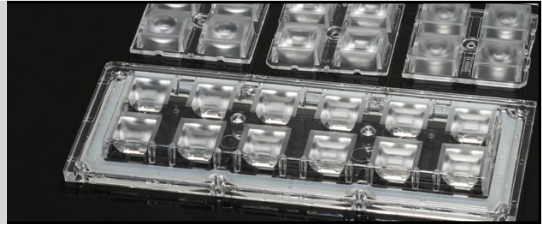
FWHM angles, efficiencies and cd/lm values contained herein are typical values. Actual measured values depend of the specific LED/ optic combination. Go to www.ledil.com for LED specific values and optical datasheets.

High Bay

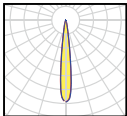
www.ledil.com/highbayfamily

COMPATIBILITY

- Optimized for a range of 3535 high power and compatible up to 5050 LED packages

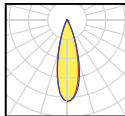


HB-2X2



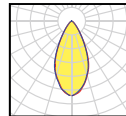
HB-2X2-RS

D: 50x50 mm
H: 10 mm
Typ. FWHM: 10°
PMMA



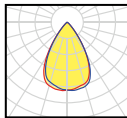
HB-2X2-M

D: 50x50 mm
H: 8,5 mm
Typ. FWHM: 25°
PMMA



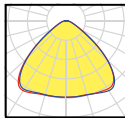
HB-2X2-W

D: 50x50 mm
H: 8,5 mm
Typ. FWHM: 51°
PMMA



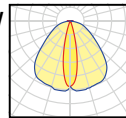
HB-2X2-WW

D: 50x50 mm
H: 8,5 mm
Typ. FWHM: 65°
PMMA



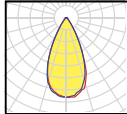
HB-2X2-WWW

D: 50x50 mm
H: 8,5 mm
Typ. FWHM: 65°
PMMA



HB-2X2-O

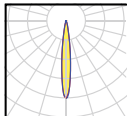
D: 50x50 mm
H: 10,6 mm
Typ. FWHM: 19°+117°
PMMA



HB-2X2-RW

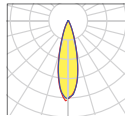
D: 50x50 mm
H: 8,5 mm
Typ. FWHM: 51°
PMMA

HB-IP-2X6



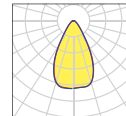
HB-IP-2X6-RS

D: 173x71,4 mm
H: 11,4 mm
Typ. FWHM: 19°
PMMA



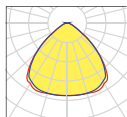
HB-IP-2X6-M

D: 173x71,4 mm
H: 11,4 mm
Typ. FWHM: 27°
PMMA



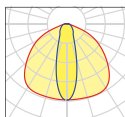
HB-IP-2X6-W

D: 173x71,4 mm
H: 11,4 mm
Typ. FWHM: 58°
PMMA



HB-IP-2X6-WWW

D: 173x71,4 mm
H: 11,4 mm
Typ. FWHM: 98°
PMMA

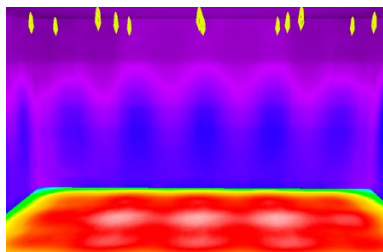


HB-IP-2X6-O

D: 173x71,4 mm
H: 12,2 mm
Typ. FWHM: 32°+115°
PMMA

Name	LEDs	Dimensions	Height	Typ. FWHM
HB-SQ-A	1	25 x 25	12,9	50
STRADA-2X2-CY	4	50 x 50	7,8	127+127
HB-2X2MX-M	4	90 x 90	16,38	TBA
HB-2X2MX-W	4	90 x 90	15,4	50
HB-2X2MX-WWW	4	90 x 90	16,38	TBA
HB-5X1-FLAT-W	5	123 x 25	8,5	54
HB-5X1-W	5	123 x 25	9	56
HB-5X1-WW	5	123 x 25	9	72

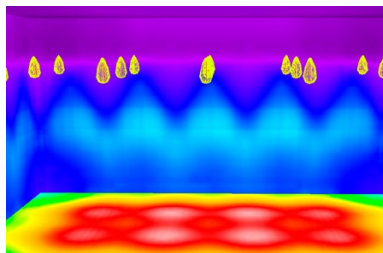
Industrial lighting with HB-2X2 modules

**C13233_HB-2X2-M**

Beam type: Medium
 Typical FWHM: 25°
 Typical efficiency: 92 %
 Typical cd/lm: 3.7

SIMULATION

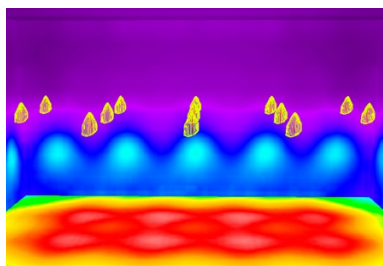
Distance between
 luminaires 6 m,
 10 klm / luminaire,
 average 280-300 lx,
 installation height 15 m

**C12361_HB-2X2-W**

Typical FWHM 51°
 Beam type: HighBay
 Typical efficiency: 88 %
 Typical cd/lm: 0.9

SIMULATION

Distance between
 luminaires 6 m,
 10 klm / luminaire,
 average 280-300 lx
 installation height 12 m

**C13232_HB-2X2-WW**

Typical FWHM: 65°
 Beam type: Wide
 Typical efficiency: 91 %
 Typical cd/lm: 0.9

SIMULATION

Distance between
 luminaires 6 m,
 10 klm / luminaire,
 average 280-300 lx
 installation height 9 m



TATIANA

www.ledil.com/tatiana

TATIANA-1X4-B

D: 102x25 mm

H: 7,7 mm

Typ. FWHM: 144 + 62°

Typ. eff: 94%

PMMA, LEDs: 4



- 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.

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

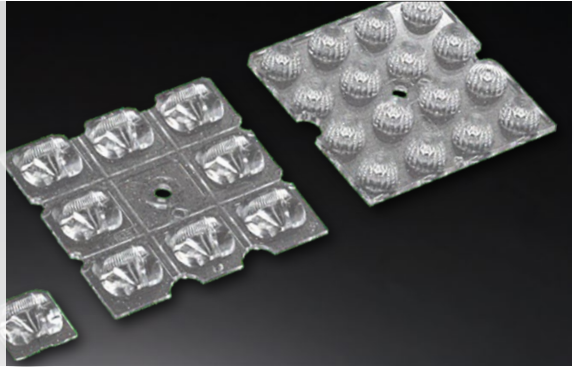
STRADELLA

www.ledil.com/stradellafamily

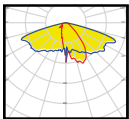
STRADA's little sister – Compact STRADELLA lens doubles or even quadruples the density of LEDs compared to standardized STRADA-2X2 lenses, making it a cost efficient and feasible solution for mid-power LEDs.

COMPATIBILITY

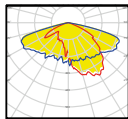
- 3030 & 5050 size LED packages



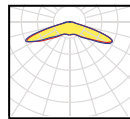
Street lighting



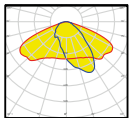
STRADELLA-8-T2
D: 49,5 x 49,5 mm
H: 5,7 mm
PMMA



STRADELLA-8-T3
D: 49,5 x 49,5 mm
H: 5,7 mm
PMMA

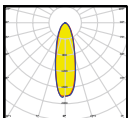


STRADELLA-8-VSM
D: 49,5 x 49,5 mm
H: 5,5 mm
PMMA

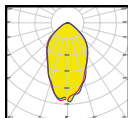


STRADELLA-9-AT
D: 49,5 x 49,5 mm
H: 6,3 mm
PMMA

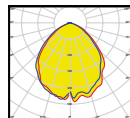
High bay lighting



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



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



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

Name	Beam type	LEDs	H	D	Typ. FWHM	Typ. Eff.	Typ. cd/lm
STRADELLA-9-AT	Asymmetric	9	6,3	49,5x49,5	Asymm	92	0,46
STRADELLA-8-T2	Asymmetric	8	5,7	49,5x49,5	Asymm	94	0,75
STRADELLA-T2	Asymmetric	1	4,96	13,9x13,9	Asymm	94	0,77
STRADELLA-8-T3	Asymmetric	8	5,7	49,5x49,5	Asymm	94	0,7
STRADELLA-T3	Asymmetric	1	4,96	13,9x13,9	Asymm	94	0,7
STRADELLA-8-VSM	Wide area lighting	8	5,5	49,5x49,5	143	94	0,42
STRADELLA-16-HB-S	Spot	16	7,5	49,5x49,5	TBA	TBA	TBA
STRADELLA-16-HB-M	Medium	16	5,7	49,5x49,5	TBA	TBA	TBA
STRADELLA-16-HB-W	Wide	16	7,12	49,5x49,5	TBA	TBA	TBA
STRADELLA-8-HB-S	Spot	8	7,5	49,5x49,5	27	90	1,75
STRADELLA-8-HB-M	Medium	8	5,7	49,5x49,5	58	92	0,70
STRADELLA-8-HB-W	Wide	8	7,12	49,5x49,5	87	94	0,46
STRADELLA-HB-S	Spot	1	7,5	13,9x13,9	27	TBA	TBA
STRADELLA-HB-M	Medium	1	5,7	13,9x13,9	58	TBA	TBA
STRADELLA-HB-W	Wide	1	7,12	13,9x13,9	87	TBA	TBA

The information contained herein is the property of LEDIL Oy, Salorankatu 10, FI-24240 SALO, Finland, and is subject to change without prior notice. Please visit www.ledil.com for additional information, such as the latest photometric files, 3D mechanical models, and application notes relating to handling, gluing and taping.

STRADA

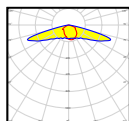
www.ledil.com/strada

STRADA lenses, originally designed for street lighting applications, are suitable for many other applications as well.

Like all LEDiL products STRADA lenses are optimized for specific LED types and have optimal light distribution and over 90% optical efficiency. Some STRADA lenses can also be used with other LED types with a small sacrifice in light distribution and optical efficiency. Asymmetric type light distributions are designated for

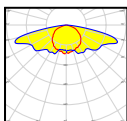
roadway lighting with optimal performance.

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



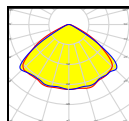
STRADA-SQ-ANZ-P

D: 25 x 25 mm
PMMA
Typ. eff.: 91%



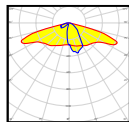
STRADA-SQ-ANZ-V

D: 25 x 25 mm
PMMA
Typ. eff.: 93%



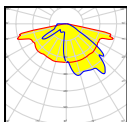
STRADA-SQ-CY

D: 25x25 mm
H: 10.1 mm
PMMA
Typ. eff: 94%



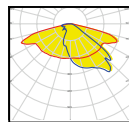
STRADA-SQ-T2

D: 25 x 25 mm
H: 8,5 mm
PMMA
Typ. eff: 90%



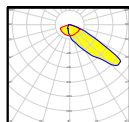
STRADA-SQ-T3

D: 25 x 25 mm
H: 8,5 mm
PMMA
Typ. eff: 90%



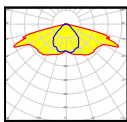
STRADA-SQ-ME

D: 25 x 25 mm
H: 8,8 mm
PMMA
Typ. eff: 92%



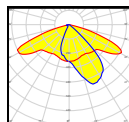
STRADA-SQ-FS

D: 25 x 25 mm
H: 12,3 mm
PMMA
Typ. eff: 93%



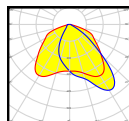
STRADA-SQ-FS2

D: 25 x 25 mm
H: 8,2 mm
PMMA
Typ. eff: 90%



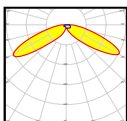
STRADA-SQ-A-T

D: 25 x 25 mm
H: 9,1 mm
PMMA
Typ. eff: 93%



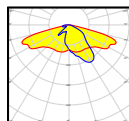
STRADA-SQ-T-DN

D: 25 x 25 mm
H: 8,5 mm
PMMA
Typ. eff: 90%



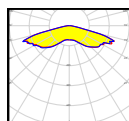
STRADA-SQ-T-DW

D: 25 x 25 mm
H: 11,4 mm
PMMA
Typ. eff: 91%



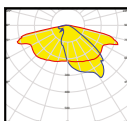
STRADA-SQ-T-DWC

D: 25 x 25 mm
H: 9,1 mm
PMMA
Typ. eff: 93%



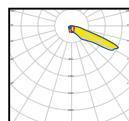
STRADA-SQ-VSM

D: 25 x 25 mm
H: 6,9 mm, PMMA
Typ. FWHM: 152°
Typ. eff: 93%



STRADA-SQ-T3B

D: 25 x 25 mm
H: 8,4mm,
PMMA
Typ. eff: 93%

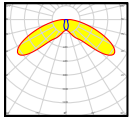


STRADA-SQ-FS3

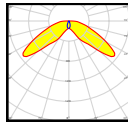
D: 25 x 25 mm
H: 16,2 mm
PMMA

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

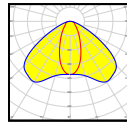
Street lighting



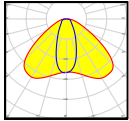
STRADA-A
D: 19,6 x 15,4 mm
H: 10,8 mm
PMMA
Typ. FWHM: 80° x 146°
Typ. eff: 92%



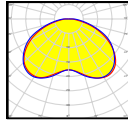
STRADA-A2
D: 19,6 x 15,4 mm
H: 10,6 mm
PMMA
Typ. FWHM: 72° x 141°
Typ. eff: 92%



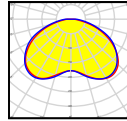
STRADA-B
D: 19,6 x 15,5 mm
H: 6 mm
PMMA
Typ. FWHM: 105° x 44°
Typ. eff: 93%



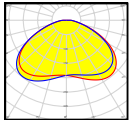
STRADA-B2
D: 19,6 x 15,5 mm
H: 5,3 mm
PMMA
Typ. FWHM: 111° x 47°
Typ. eff: 92%



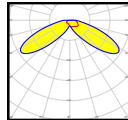
STRADA-C
D: 19,6 x 15,6 mm
H: 5,3 mm
PMMA
Typ. FWHM: 125°
Typ. eff: 92%



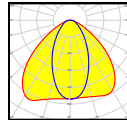
STRADA-C2
D: 19,6 x 15,6 mm
H: 6,4 mm
PMMA
Typ. FWHM: 120°
Typ. eff: 92%



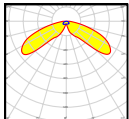
STRADA-C2-CLIP
D: 19,6 x 15,6 mm
H: 6,9 mm
PMMA
Typ. eff: 92%



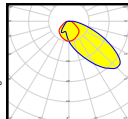
STRADA-T-DW
D: 19,8 x 15,5 mm
H: 10,8 mm
PMMA
Typ. eff: 93%



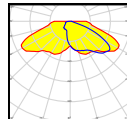
STRADA-DN
D: 19,6 x 15,7 mm
H: 5,9 mm
PMMA
Typ. FWHM: 107° x 58°
Typ. eff: 92%



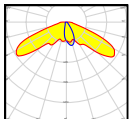
STRADA-DW
D: 19,6 x 15,7 mm
H: 9,6 mm
PMMA
Typ. FWHM: 89° x 142°
Typ. eff: 92%



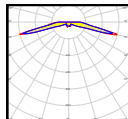
STRADA-FT
D: 19,6 x 15,4 mm
H: 8,3 mm
PMMA
Typ. eff: 91%



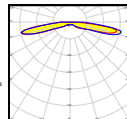
STRADA-FW
D: 19,6 x 15,5 mm
H: 10,9 mm
PMMA
Typ. eff: 92%



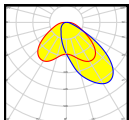
STRADA-K
D: 19,6 x 15,5 mm
H: 8,7 mm
PMMA
Typ. eff: 96%



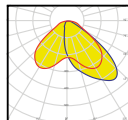
STRADA-S
D: 19,6 x 15,5 mm
H: 6,9 mm
PMMA
Typ. FWHM: 149° x 159°
Typ. eff: 93%



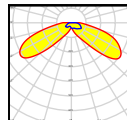
STRADA-S-14
D: 19,6 x 15,5 mm
H: 6,9 mm
PMMA
Typ. FWHM: 149° x 159°
Typ. eff: 93%



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



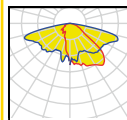
STRADA-T-DN
D: 19,8 x 15,5 mm
H: 8,9 mm
PMMA
Typ. eff: 92%



STRADA-T-DW-EP
D: 19,8 x 15,5 mm
H: 10,7 mm
PMMA
Typ. eff: 92%

Name	Dimensions	Height	Typ. eff.	Typ. FWHM
STRADA-SQ-FS-NP	25x25	12,4	93	Asymm.
STRADA-SQ-FT	25x25	12,5	90	Asymm.
STRADA-SQ-ME-NP	25x25	8,6	93	Asymm.
STRADA-SQ-T4	25x25	9,4	93	Asymm.
STRADA-SQ-FW	25x25	15,3	90	Asymm.
STRADA-SQ-T4-NP	25x25	9,4	92	Asymm.
STRADA-SQ-T-DW-90	25x25	11,4	91	Asymm.
STRADA-C2-NP	19,6x15,6	6,9	92	Asymm.

NEW!



STRADA-ME
D: 15,52 x 19,67 mm
H: 5,73 mm
PMMA

2x2 modules

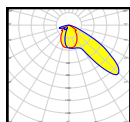
www.ledil.com/strada-2x2

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

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



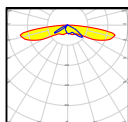
Area lighting



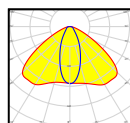
STRADA-2X2-FN
D: 50 x 50 mm
H: 10 mm
PMMA
Typ. eff.: 94%
Forward throw,
Narrow beam



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



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

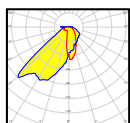


STRADA-2X2-B2-STP
D: 50 x 50 mm
H: 5,18 mm
PMMA
Typ. eff.: 93%

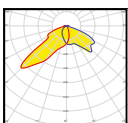


STRADA-2X2-C-STP
D: 50 x 50 mm
H: 6,27 mm
PMMA
Typ. eff.: 94%

Pedestrian crossing lighting

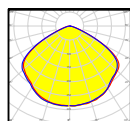


STRADA-2X2-PX
D: 50 x 50 mm
H: 8 mm
PMMA
Typ. eff.: 94%
For right side traffic



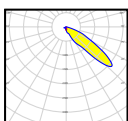
STRADA-2X2-PXL
D: 50 x 50 mm
H: 8 mm
PMMA
Typ. eff.: 94%
For left side traffic

High bay



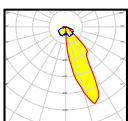
STRADA-2X2-CY
D: 50x50 mm
H: 7,8 mm
PMMA
Typ. eff.: 94%

Tunnel lighting



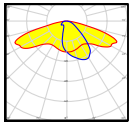
STRADA-2X2-TF
D: 50 x 50 mm
H: 8,73 mm
PMMA
Typ. eff.: 94%

Urban lighting, Minimal backlight



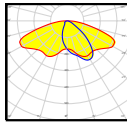
STRADA-2X2-NHS
D: 50 x 50 mm
H: 9,8 mm
PMMA
Typ. eff.: 90%

Street lighting



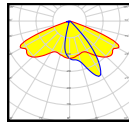
STRADA-2X2-DWC

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



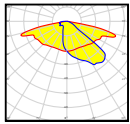
STRADA-2X2-DNW

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



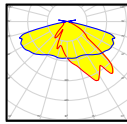
STRADA-2X2-A-T

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



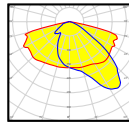
STRADA-2X2-ME

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



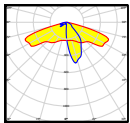
STRADA-2X2-ME-WIDE1

D: 50 x 50 mm
H: 8,3 mm
PMMA
Typ. eff.: 84%



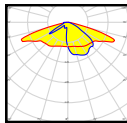
STRADA-2X2-ME-WIDE2

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



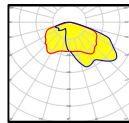
STRADA-2X2-T2

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



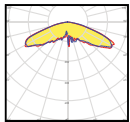
STRADA-2X2-T3

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



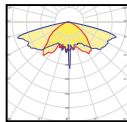
STRADA-2X2-T4

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



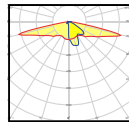
STRADA-2X2-VSM

D: 50 x 50 mm
H: 6,14 mm
PMMA
Typ. eff.: 94%
IESNA Type V Short



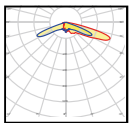
STRADA-2X2-CAT

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



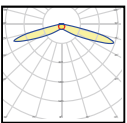
STRADA-2X2-SCL

D: 50 x 50 mm
PMMA
Typ. eff.: 94%
European S-class
lighting



STRADA-2X2-T4-B

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

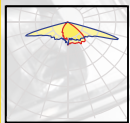


STRADA-2X2-T1

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

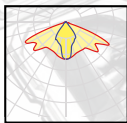
NEW!

Street lighting



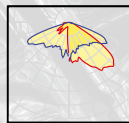
STRADA-2X2-T2-C

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



STRADA-2X2-CAT-B

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



STRADA-2X2-MEW

D: 50 x 50 mm
H: 10,16 mm
PMMA
ME for wet roads

STRADA-2X2S

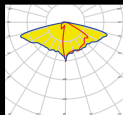
www.ledil.com/products

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

COMPATIBILITY

- Optimized for a range of 3535 high power and compatible up to 5050 size LED packages

NEW!



STRADA-2X2S-T3

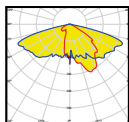
D: 50 x 50 mm
H: 7,23 mm
Silicone
IESNA Type III Medium light distribution

Silicone 2X2MXS

New 2X2MXS, a silicone lens that does not shy away from bad weather conditions or smaller impacts. Not to forget exceptional thermal and UV resistance.

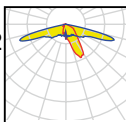
COMPATIBILITY

- Up to 7070 size LED packages



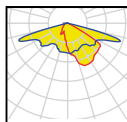
STRADA-2X2MXS-DWC2

D: 90 x 90 mm
H: 14,41 mm
Silicone



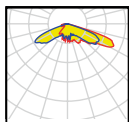
STRADA-2X2MXS-T2

D: 90 x 90 mm
H: 12,7 mm
Silicone



STRADA-2X2MXS-T3

D: 90 x 90 mm
H: 15 mm
Silicone



STRADA-2X2MXS-T4-B

D: 90 x 90 mm
H: 14,2 mm
Silicone

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

2X2MX modules

www.ledil.com/2x2mx

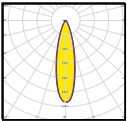
The 2X2MX platform features standardized 90x90 mm square-shaped footprint and same incomparable performance as proven in smaller HB- and STRADA-2X2 modules. 90-degrees rotation of the modules with wide range of optic solutions enables mixing and modifying your same luminaire structure to be used in many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

COMPATIBILITY

- Super high-power LEDs up to 7070 size packages

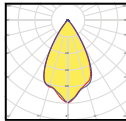


HB-2X2MX



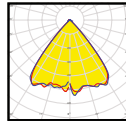
HB-2X2MX-M

D: 90 x 90 mm
H: 16,38 mm
PMMA
Typ. FWHM: 30°
Typ. eff.: 92%



HB-2X2MX-W

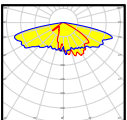
D: 90 x 90 mm
H: 15,35 mm
Typ. FWHM: 50°
Typ. eff.: 92%
PMMA



HB-2X2MX- WWW

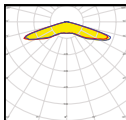
D: 90 x 90 mm
H: 16,38 mm
PMMA

STRADA-2X2MX



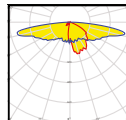
STRADA- 2X2MX-DWC

D: 90 x 90 mm
H: 11,3 mm
Typ. eff.: 94%
PMMA



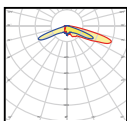
STRADA- 2X2MX-VSM

D: 90 x 90 mm
H: 13,4 mm
PMMA
Typ. eff.: 94%
Type V street lighting



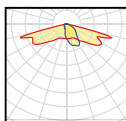
STRADA- 2X2MX-SCL

D: 90 x 90 mm
H: 13,17 mm
PMMA
S class lighting applications



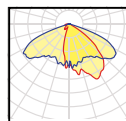
STRADA- 2X2MX-T4-B

D: 90 x 90 mm
PMMA
Widest IESNA Type IV Forward throwing beam



STRADA- 2X2MX-T2

D: 90 x 90 mm
H: 12,57 mm
PMMA
Type II road lighting beam



STRADA- 2X2MX-T2-S

D: 90 x 90 mm
PMMA
Typ. eff.: 94%
IESNA Type II Short beam for high or dense pole setups

STRADA-IP 2X6 modules

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

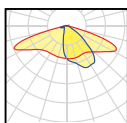
STRADA-IP-2X6 modules are the solution for efficient and aesthetically pleasant street lighting. Bigger lens modules allow easier installation and faster construction of luminaries.

All the modules comes with an integrated silicone gasket to allow ingress protection against dirt and dust up to IP67. Wide

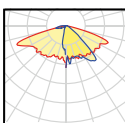
range of optical solutions to cover major European, Russian and IESNA lighting classes makes upgrading street light into more efficient LED lighting easier than ever.

COMPATIBILITY

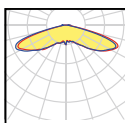
- Optimized for a range of 3535 high power and compatible up to 5050 LED packages



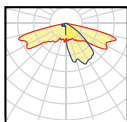
STRADA-IP-2X6-DWC
D: 173 x 71,4 mm
H: 7,9 mm
Typ. efficiency: 93%



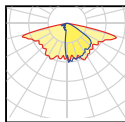
STRADA-IP-2X6-ME
D: 173 x 71,4 mm
H: 8,4 mm
Typ. efficiency: 94%



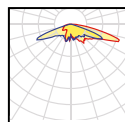
STRADA-IP-2X6-VSM
D: 173 x 71,4 mm
H: 9 mm
Typ. efficiency: 94%



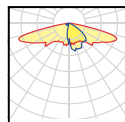
STRADA-IP-2X6-T2-B
D: 173 x 71,4 mm
H: 12,03 mm
Typ. efficiency: 95%



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



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



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

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

STRADA 6X1 modules

www.ledil.com/strada-6x1

Precision-engineered lens array.

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



STRADA-T-6X1-DNW
D: 119,8 x 25,2 mm
H: 5,6 mm
Typ. efficiency: 93%



STRADA-T-6X1-MC
D: 119,8 x 25,2 mm
H: 5,5 mm
Typ. efficiency: 94%

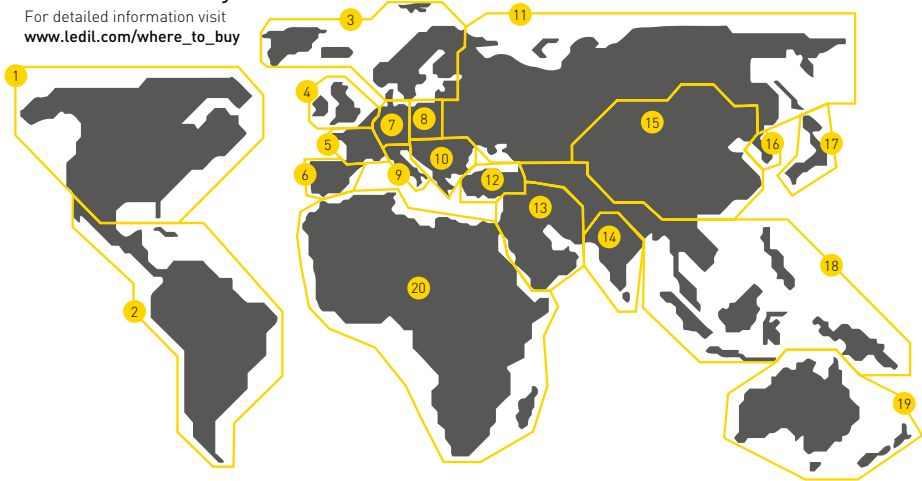


STRADA-T-6X1-ME
D: 119,8 x 25,2 mm, H: 8,2 mm
Typ. efficiency: 93%

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

Where to buy

For detailed information visit
www.ledil.com/where_to_buy



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19	Pasi Kontto	pasi.kontto@ledil.com	+358 40 776 2149	Australia, New Zealand

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www.ledil.com

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