

# ELEKTRA L

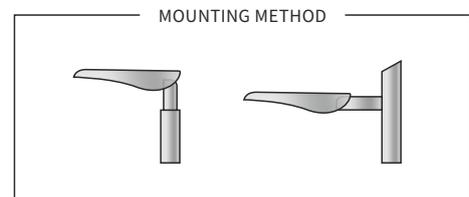
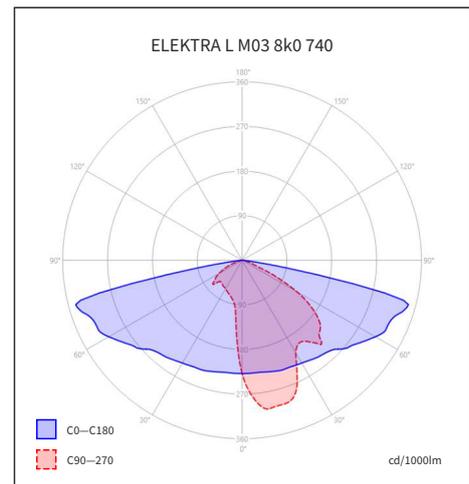
The best-selling compact range of LED luminaires for street and road lighting.



## TECHNICKÉ SPECIFIKACE

<b>Light source</b>	LED
<b>Power voltage</b>	AC 220–240 V / 50–60 Hz
<b>Connection method</b>	leading out cable, leading out cable with connector (G) without cable (WO)
<b>Ballast part</b>	electronic driver with surge protection L/N-Ground 10 kV
<b>Surge protection</b>	additional surge protection 10 kV (S)
<b>Fuse</b>	fuse 6,3 A (J)
<b>Possibility of regulation</b>	non-dimmable (not labeled), DALI (DALI), night dimming (A) preparation for wireless communication NEMA (N), Zhaga (Z) or 2x Zhaga (ZZ)
<b>Constant lumen output</b>	CLO (C)
<b>Optical system</b>	roads (Mxx), roads (Lxx), directional (Pxx), area (Uxx), přechodové (ZLx/ZPx), combined optics (Kxx) BACK Light shades (BL1/BL2), FRONT Light shades (FL1/FL2) direct
<b>Light distribution</b>	
<b>Colour rendering index</b>	Ra > 70, Ra > 80
<b>Colour temperature</b>	BLUE FREE™ (AMBER) / 2,700 K / 3,000 K / 4,000 K / 5,000 K / 5 700 K / TW
<b>Service life</b>	> 120,000 hrs. (L90)
<b>Luminaire body</b>	aluminum cast
<b>Colour</b>	RAL 7015/9006*
<b>Surface type</b>	matte
<b>Luminaire cover</b>	tempered glass
<b>Protection class</b>	I, II
<b>Maximum ambient temperature</b>	max. -40 / +55 °C
<b>Ingress protection</b>	IP 66
<b>Impact protection</b>	IK 09, IK 10
<b>EMC</b>	YES
<b>Vibration test</b>	YES
<b>Static load test</b>	YES
<b>Corrosion tests – salt spray</b>	YES
<b>Life test</b>	YES
<b>Certification</b>	ENEC, ENEC+, Zhaga-D4i, IDA Dark Sky Approved
<b>Photobiological safety</b>	RG0
<b>CB test</b>	ANO
<b>RoHS</b>	ANO
<b>REACH</b>	ANO
<b>Method</b>	pole or boom mounted (48–60 mm); 60–76 mm (on request) adjustable joint ± 20°
<b>Recommended height</b>	max. up to 15 m
<b>Additional equipment</b>	external aperture (CPZ) – on order

\*Different color available on request (according to the RAL chart)





This product contains a light source of energy efficiency class C (730/740), D (AMB/727), E (722).

### Use:

bike path, outdoor areas, pedestrian zones, sidewalks; road classes I., II. and III.



VARIANTS (chip 3535)	POWER (W)				LUMINAIRE OUTPUT FLUX (lm)		LUMINAIRE EFFICIENCY (lm/W)	SERVICE LIFE (hrs.)	WEIGHT
	Color temperature (K)								
Catalog name	2200K Ra 70 U500 < 6.5%	2700K Ra 70 U500 < 10.5%	3000K Ra 70 U500 < 15%	4000K Ra 70 U500 < 23%	min	max	Up to	L90B10	kg*
ELEKTRA L Mxx 14k0	100,6	91,3	85,5	80,7	11 543	13 485	167,1	> 120 000	9.2
ELEKTRA L Mxx 16k0	118	101,3	99,6	94,1	13 192	15 411	163,8	> 120 000	9.2
ELEKTRA L Mxx 18k0	134	116,5	115,5	108	14 841	17 338	160,5	> 120 000	9.2
ELEKTRA L Mxx 20k0	143	132	124	117	16 490	19 264	164,6	> 120 000	9.2
ELEKTRA L Mxx 22k0	160**	138	138	130	18 139	21 190	163,0	> 120 000	9.2
ELEKTRA L Mxx 24k0	175**	150	143	135	19 788	23 117	171,2	> 120 000	9.2
ELEKTRA L Mxx 26k0	-	168**	157	148	21 437	25 043	169,2	> 120 000	9.2
ELEKTRA L Mxx 28k0	-	-	172**	160**	23 086	26 970	168,6	> 120 000	9.2
ELEKTRA L Mxx 30k0	-	-	-	173**	24 735	28 896	167,0	> 120 000	9.2

VARIANTS (chip 5050)	POWER (W)					LUMINAIRE OUTPUT FLUX (lm)		LUMINAIRE EFFICIENCY (lm/W)	SERVICE LIFE (hrs.)	WEIGHT
	Color temperature (K)									
Catalog name	BLUE FREE AMBER U500 < 1.7%	2200K Ra 70 U500 < 7%	2700K Ra 70 U500 < 10.6%	3000K Ra 70 U500 < 14%	4000K Ra 70 U500 < 21%	min	max	Up to	L90B10	kg*
ELEKTRA L Lxx 14k0	92	90,2	85,3	78,8	74,5	11 866	13 234	177,6	> 120 000	9.2
ELEKTRA L Lxx 16k0	106,7	105	95,6	91,7	86,6	13 562	15 125	174,7	> 120 000	9.2
ELEKTRA L Lxx 18k0	122	120	109,2	105	98,8	15 257	17 015	172,2	> 120 000	9.2
ELEKTRA L Lxx 20k0	132	129	124	115	108	16 952	18 906	175,1	> 120 000	9.2
ELEKTRA L Lxx 22k0	146	143	138	127	120	18 647	20 797	173,3	> 120 000	9.2
ELEKTRA L Lxx 24k0	158**	156	144	140	132	20 342	22 687	171,9	> 120 000	9.2
ELEKTRA L Lxx 26k0	-	-	157	145	138	22 038	24 578	178,1	> 120 000	9.2
ELEKTRA L Lxx 28k0	-	-	169**	156	147	23 733	26 468	180,1	> 120 000	9.2
ELEKTRA L Lxx 30k0	-	-	-	169**	159**	25 428	28 359	178,4	> 120 000	9.2

VARIANTS PEDESTRIAN CROSSINGS (chip 3535)	POWER (W)					LUMINAIRE OUTPUT FLUX	LUMINAIRE EFFICIENCY (lm/W)	SERVICE LIFE (hrs.)	WEIGHT
	Color temperature (K)								
Catalog name	2700K Ra 70 U500 < 10.5%	3000K Ra 70 U500 < 15%	4000K Ra 70 U500 < 23%	5000K Ra 70 U500 < 30%	5700K Ra 70 U500 < 30%	lm	Up to	L90B10	kg*
ELEKTRA L Mxx ZL03 18k0	116,5	115,5	108	110	110	16 081	148,9	> 120 000	9.2
ELEKTRA L Mxx ZL04 18k0	116,5	115,5	108	110	110	15 921	147,4	> 120 000	9.2
ELEKTRA L Mxx ZL06 18k0	112,5	105	99,1	97,3	100	15 701	161,4	> 120 000	9.2
ELEKTRA L Mxx ZP01 18k0	116,5	115,5	108	110	110	16 155	149,6	> 120 000	9.2
ELEKTRA L Mxx ZP02 18k0	116,5	115,5	108	110	110	16 160	149,6	> 120 000	9.2
ELEKTRA L Mxx ZP03 18k0	116,5	115,5	108	110	110	16 081	148,9	> 120 000	9.2
ELEKTRA L Mxx ZP06 18k0	112,5	105	99,1	97,3	100	16 700	171,6	> 120 000	9.2
ELEKTRA L Mxx ZL06 20k7	132	124	117	116	118	18 057	155,7	> 120 000	9.2
ELEKTRA L Mxx ZP06 20k7	132	124	117	116	118	19 205	165,6	> 120 000	9.2
ELEKTRA L Mxx ZL03 22k0	138	138	130	131	130	19 655	151,2	> 120 000	9.2
ELEKTRA L Mxx ZL04 22k0	138	138	130	131	130	19 459	149,7	> 120 000	9.2
ELEKTRA L Mxx ZP01 22k0	138	138	130	131	130	19 745	151,9	> 120 000	9.2
ELEKTRA L Mxx ZP02 22k0	138	138	130	131	130	19 752	151,9	> 120 000	9.2
ELEKTRA L Mxx ZP03 22k0	138	138	130	131	130	19 655	151,2	> 120 000	9.2
ELEKTRA L Mxx ZL03 26k0	168**	157	148	146	149	23 228	159,1	> 120 000	9.2
ELEKTRA L Mxx ZL04 26k0	168**	157	148	146	149	22 997	157,5	> 120 000	9.2
ELEKTRA L Mxx ZP01 26k0	168**	157	148	146	149	23 335	159,8	> 120 000	9.2
ELEKTRA L Mxx ZP02 26k0	168**	157	148	146	149	23 343	159,9	> 120 000	9.2
ELEKTRA L Mxx ZP03 26k0	168**	157	148	146	149	23 228	159,1	> 120 000	9.2

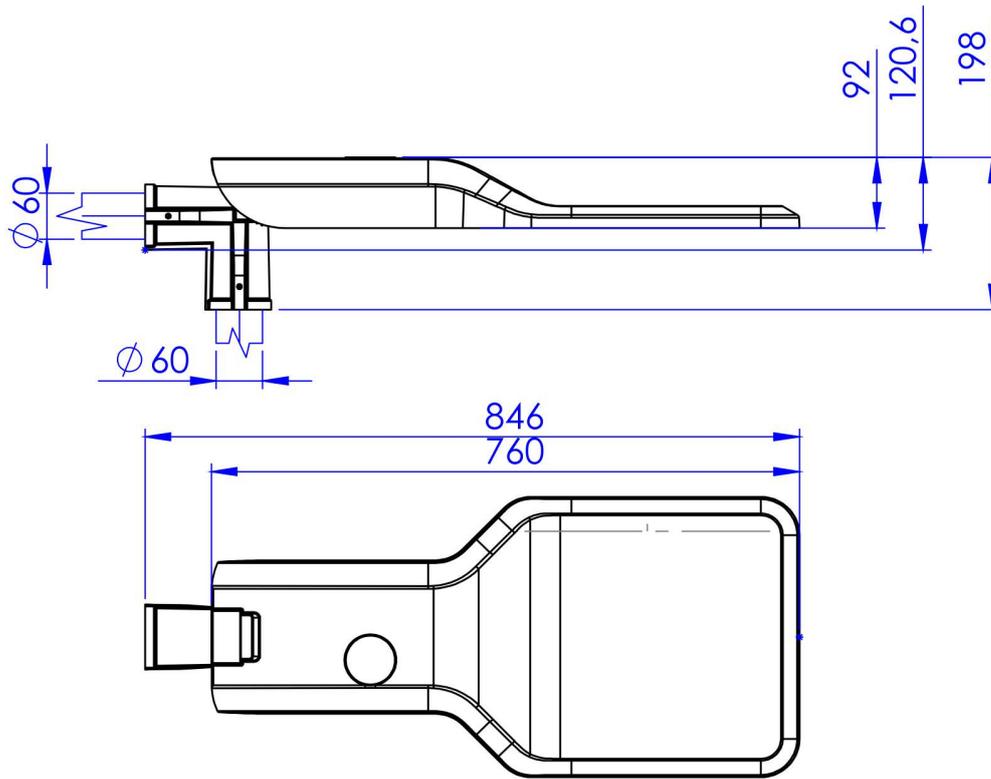
\* The weight may vary slightly depending on the luminaire variant.

\*\* Can not be produced under ENEC licence.

Luminaire ambient temperature TQ 25 °C
Initial color consistency: ≤ 5 SDCM
IDA Dark Sky fixture seal of approval relates to ≤ 3 000 K
To meet IDA requirements, the luminaires must be installed horizontally with the road
Optical and electrical parameters tolerance ± 10 %

When using the CLO function, the initial power and luminous flux is 10 % lower than the value shown in the table. LDT curves with CLO function have the letter "C" at the end of their marking.

The term BLUE FREE (AMBER) in lighting technology refers to light with a minimum amount of the blue part of the light spectrum (< 2%).



# ELEKTRA L

ELEKTRA L II M01BL2 8k0 730 B124 45CAZ2 SJG H3S ENEC

ELEKTRA L	Name and size of the luminaire
without marking	Class I (standard)
II	Class II
G2	Luminaire generation
M01	Roads
L01	Roads
P01	Directional
U01	Area
ZP1 / ZL1	Pedestrian crossings
K01	Combined optics
BL1	BACK Light shades (straight)
BL2	BACK Light shades (curved)
FL1	FRONT Light shades (straight)
FL2	FRONT Light shades (curved)
8k0	Luminous flux marking (source)
730	Colour rendering index Ra > 70 Colour temperature 3 000 K
B	LED module type
1	LED chip type
2	Chip performance BIN
4	Mask type

12	On/Off driver (noDALI) + 2 pole terminal block
13	On/Off driver (noDALI) + 3 pole terminal block
43	DALI driver + 3 pole terminal block
44	DALI driver + 4 pole terminal block
45	DALI driver + 5 pole terminal block
45P	DALI driver + 5 pole terminal block + motion sensor
40	DALI driver + disconnect terminal block (standard)
10	On/Off driver + disconnect terminal block (standard)
DO	D4i driver (for Zhaga connector) + disconnect terminal block (standard)

C	Constant Lumen Output (CLO)
A	Autonomous dimming
ZT	ZHAGA Top (top Zhaga connector), D4i driver
ZB	ZHAGA Bottom (bottom Zhaga connector), D4i driver
ZN	ZHAGA+NEMA connector (NEMA on top, Zhaga on bottom), D4i driver
ZZ	2x ZHAGA (top and bottom connector), D4i driver
Z	Zhaga connector, 4-pin D4i driver
N	NEMA connector, 7 pin (always only the top connector), DALI driver
S	Additional surge protection 10 kV (S)
J	Fuse
G	Gesis connector
H	H05(07)RN-F cable (1 mm <sup>2</sup> )
C	CYKY cable (1,5 mm <sup>2</sup> )
WO	Without cable
2	2 core cable
3	3 core cable
5	5 core cable
S	Standard – 25 cm length of cable (led out of the luminaire)
1	1 meter (length in whole meters)
ENEC	Certification



lumenlights.eu/elektra-l-en  
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