

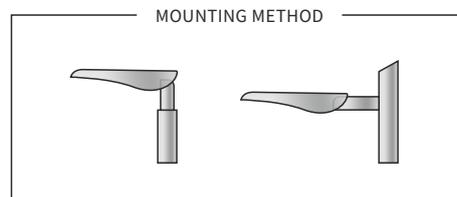
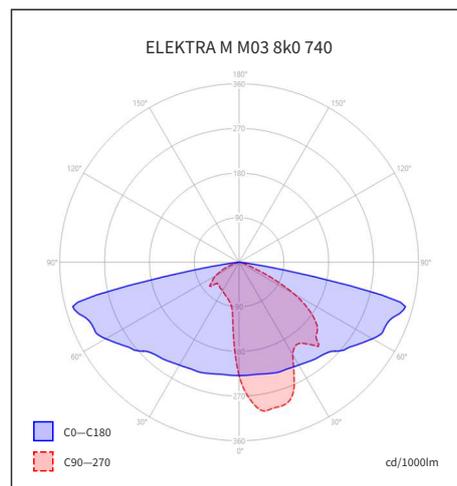
ELEKTRA M

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



TECHNICKÉ SPECIFIKACE

Light source	LED
Power voltage	AC 220–240 V / 50–60 Hz
Connection method	leading out cable, leading out cable with connector (G) without cable (WO)
Ballast part	electronic driver with surge protection L/N-Ground 10 kV
Surge protection	additional surge protection 10 kV (S)
Fuse	fuse 6,3 A (J)
Possibility of regulation	non-dimmable (not labeled), DALI (DALI), night dimming (A) preparation for wireless communication NEMA (N), Zhaga (Z) or 2x Zhaga (ZZ)
Constant lumen output	CLO (C)
Optical system	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
Light distribution	
Colour rendering index	Ra > 70, Ra > 80
Colour temperature	BLUE FREE™ (AMBER) / 2,200 K / 2,700 K / 3,000 K / 4,000 K / 5,000 K / 5 700 K / TW
Service life	> 120,000 hrs. (L90)
Luminaire body	aluminum cast
Colour	RAL 7015/9006*
Surface type	matte
Luminaire cover	tempered glass
Protection class	I, II
Maximum ambient temperature	max. -40 / +55 °C
Ingress protection	IP 66
Impact protection	IK 09, IK 10
EMC	YES
Vibration test	YES
Static load test	YES
Corrosion tests – salt spray	YES
Life test	YES
Certification	ENEC, ENEC+, Zhaga-D4i, IDA Dark Sky Approved
Photobiological safety	RG0
CB test	ANO
RoHS	ANO
REACH	ANO
Method	pole or boom mounted (48–60 mm); 60–76 mm (on request) adjustable joint ± 20°
Recommended height	max. up to 12 m
Additional equipment	external aperture (CPZ) – on order



ENERGY

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

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

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)				min	max	Up to	L90B10	kg*
Catalog name	2200K Ra 70 U500 < 6.5%	2700K Ra 70 U500 < 10.5%	3000K Ra 70 U500 < 15%	4000K Ra 70 U500 < 23%					
ELEKTRA M Mxx 7k0	50,9	44,2	41,6	39,2	5 772	6 742	172,0	> 120 000	7.9
ELEKTRA M Mxx 8k0	59,5	51,4	48,2	45,4	6 596	7 706	169,7	> 120 000	7.9
ELEKTRA M Mxx 9k0	68,2	59	55,4	52,3	7 421	8 669	165,8	> 120 000	7.9
ELEKTRA M Mxx 10k0	71,3	66,6	62,5	58,9	8 245	9 632	163,5	> 120 000	7.9
ELEKTRA M Mxx 12k0	88,3	76,2	71,3	67,3	9 894	11 558	171,7	> 120 000	7.9
ELEKTRA M Mxx 14k0	100,6	91,3	85,5	80,7	11 543	13 485	167,1	> 120 000	7.9
ELEKTRA M Mxx 15k0	-	98,9	92,6	87,3	12 368	14 448	165,5	> 120 000	7.9
ELEKTRA M Mxx 16k0	-	101,3	99,6	94,1	13 192	15 411	163,8	> 120 000	7.9
ELEKTRA M Mxx 18k0	-	-	109,5**	103,5**	14 841	17 338	167,5	> 120 000	7.9

VARIANTS (chip 5050)	POWER (W)					LUMINAIRE OUTPUT FLUX (lm)		LUMINAIRE EFFICIENCY (lm/W)	SERVICE LIFE (hrs.)	WEIGHT
	Color temperature (K)					min	max	Up to	L90B10	kg*
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%					
ELEKTRA M Lxx 7k0	46,6	46,2	42,3	39	37,2	5 933	6 617	177,9	> 120 000	7.9
ELEKTRA M Lxx 8k0	54,1	53,7	48,4	44,7	42,5	6 781	7 562	177,9	> 120 000	7.9
ELEKTRA M Lxx 9k0	61,9	60,6	55,4	51,2	48,3	7 628	8 508	176,1	> 120 000	7.9
ELEKTRA M Lxx 10k0	66,3	65,2	62,3	57,4	54,3	8 476	9 453	174,1	> 120 000	7.9
ELEKTRA M Lxx 12k0	81	79,6	76,9	70,8	66,7	10 171	11 344	170,1	> 120 000	7.9
ELEKTRA M Lxx 14k0	92	93,8	85,3	78,8	74,5	11 866	13 234	177,6	> 120 000	7.9
ELEKTRA M Lxx 15k0	99,3	98	92,3	85	80,4	12 714	14 180	176,4	> 120 000	7.9
ELEKTRA M Lxx 16k0	106,7**	105**	99,4	91,7	86,4	13 562	15 125	175,1	> 120 000	7.9
ELEKTRA M Lxx 18k0	-	-	109,2**	101,1	98,9	15 257	17 015	172,0	> 120 000	7.9

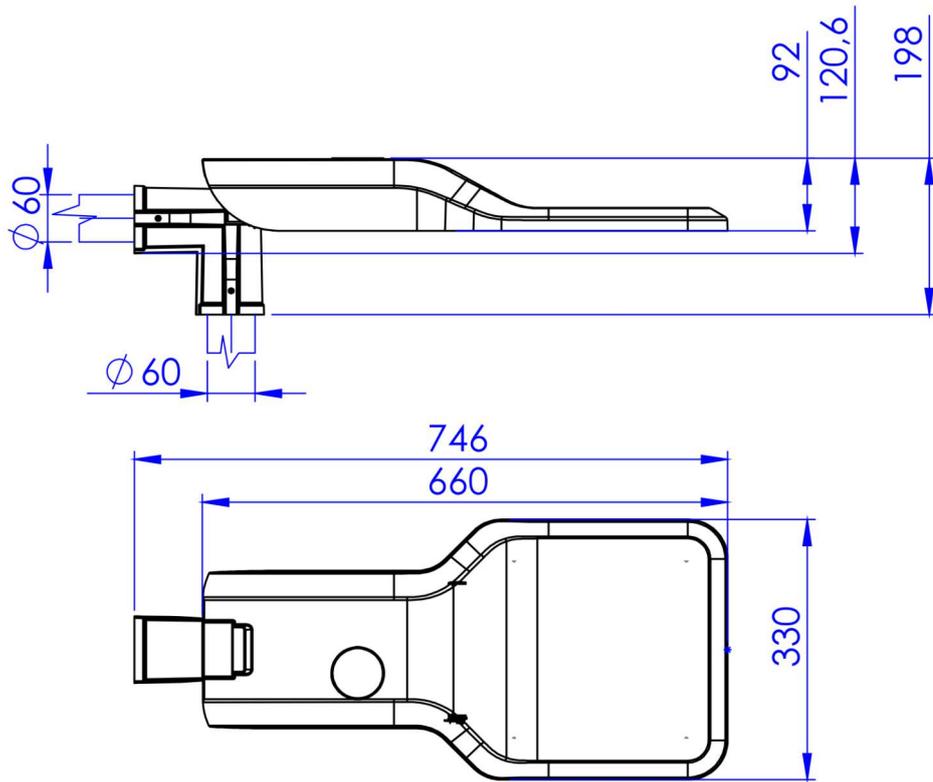
VARIANTS PEDESTRIAN CROSSINGS (chip 3535)	POWER (W)					LUMINAIRE OUTPUT FLUX	LUMINAIRE EFFICIENCY (lm/W)	SERVICE LIFE (hrs.)	WEIGHT
	Color temperature (K)					lm	Up to	L90B10	kg*
Catalog name	2700K Ra 70 U500 < 10.5%	3000K Ra 70 U500 < 15%	4000K Ra 70 U500 < 23%	5000K Ra 70 U500 < 30%	5700K Ra 70 U500 < 30%				
ELEKTRA M Mxx ZL03 6k0	36,3	34,9	33	31,5	33,5	5 360	170,2	> 120 000	7.9
ELEKTRA M Mxx ZL04 6k0	36,3	34,9	33	31,5	33,5	5 307	168,5	> 120 000	7.9
ELEKTRA M Mxx ZL06 6k0	36,3	34,9	33	31,5	33,5	5 234	166,2	> 120 000	7.9
ELEKTRA M Mxx ZP01 6k0	36,3	34,9	33	31,5	33,5	5 385	171,0	> 120 000	7.9
ELEKTRA M Mxx ZP02 6k0	36,3	34,9	33	31,5	33,5	5 387	171,0	> 120 000	7.9
ELEKTRA M Mxx ZP03 6k0	36,3	34,9	33	31,5	33,5	5 360	170,2	> 120 000	7.9
ELEKTRA M Mxx ZP06 6k0	36,3	34,9	33	31,5	33,5	5 567	176,7	> 120 000	7.9
ELEKTRA M Mxx ZL03 9k0	54,6	51,3	48,4	47,8	49	8 041	168,2	> 120 000	7.9
ELEKTRA M Mxx ZL04 9k0	54,6	51,3	48,4	47,8	49	7 961	166,5	> 120 000	7.9
ELEKTRA M Mxx ZL06 9k0	54,6	51,3	48,4	47,8	49	7 851	164,2	> 120 000	7.9
ELEKTRA M Mxx ZP01 9k0	54,6	51,3	48,4	47,8	49	8 078	169,0	> 120 000	7.9
ELEKTRA M Mxx ZP02 9k0	54,6	51,3	48,4	47,8	49	8 080	169,0	> 120 000	7.9
ELEKTRA M Mxx ZP03 9k0	54,6	51,3	48,4	47,8	49	8 041	168,2	> 120 000	7.9
ELEKTRA M Mxx ZP06 9k0	54,6	51,3	48,4	47,8	49	8 350	174,7	> 120 000	7.9
ELEKTRA M Mxx ZL03 12k0	76,2	71,3	67,3	66,3	67,7	10 721	161,7	> 120 000	7.9
ELEKTRA M Mxx ZL04 12k0	76,2	71,3	67,3	66,3	67,7	10 614	160,1	> 120 000	7.9
ELEKTRA M Mxx ZL06 12k0	76,2	71,3	67,3	66,3	67,7	10 468	157,9	> 120 000	7.9
ELEKTRA M Mxx ZP01 12k0	76,2	71,3	67,3	66,3	67,7	10 770	162,4	> 120 000	7.9
ELEKTRA M Mxx ZP02 12k0	76,2	71,3	67,3	66,3	67,7	10 774	162,5	> 120 000	7.9
ELEKTRA M Mxx ZP03 12k0	76,2	71,3	67,3	66,3	67,7	10 721	161,7	> 120 000	7.9
ELEKTRA M Mxx ZP06 12k0	76,2	71,3	67,3	66,3	67,7	11 134	167,9	> 120 000	7.9
ELEKTRA M Mxx ZL03 15k0	98,9	92,6	87,3	86,7	87,5	13 401	154,6	> 120 000	7.9
ELEKTRA M Mxx ZL04 15k0	98,9	92,6	87,3	86,7	87,5	13 268	153,0	> 120 000	7.9
ELEKTRA M Mxx ZL06 15k0	98,9	92,6	87,3	86,7	87,5	13 085	150,9	> 120 000	7.9
ELEKTRA M Mxx ZP01 15k0	98,9	92,6	87,3	86,7	87,5	13 463	155,3	> 120 000	7.9
ELEKTRA M Mxx ZP02 15k0	98,9	92,6	87,3	86,7	87,5	13 467	155,3	> 120 000	7.9
ELEKTRA M Mxx ZP03 15k0	98,9	92,6	87,3	86,7	87,5	13 401	154,6	> 120 000	7.9
ELEKTRA M Mxx ZP06 15k0	98,9	92,6	87,3	86,7	87,5	13 917	160,5	> 120 000	7.9

* 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 M

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

ELEKTRA M	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	2× 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 ²)
C	CYKY cable (1,5 mm ²)
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-m-en
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