

ELEKTRA S

DATASHEET | SPECIFICATIONS



TECHNICAL SPECIFICATIONS

ELECTRICAL PARAMETERS	
Light source	» LED
AC voltage	» AC 220–240 V / 50–60 Hz
Connection	» leading out cable » leading out cable with connector (G) » without cable (WO)
Driver	» electronic driver with surge protection L/N-Ground 10 kV
Surge protection	» additional surge protection 10 kV (S)
Fuse	» fuse 6,3 A (J)
Dimming	» non-dimmable (not labeled) » DALI (DALI) » night dimming (A) » preparation for wireless communication NEMA (N) » Zhaga (Z) or 2× Zhaga (Z2)
Constant lumen output	» CLO (C)
LIGHT PARAMETERS	
Optical system	» roads (Mxx) » roads (Lxx) » directional (Pxx) » area (Uxx) » AMBER module (Nxx) » AMBER optics (ALxx) » combined optics (Kxx) » BACK Light mask (BM2)
Light distribution	» direct
Color rendering index	» Ra > 70 » Ra > 80
Color temperature	» AMBER » 2 200 K » 2 700 K » 3 000 K » 4 000 K » 5 000 K
Service life	» > 120 000 hrs. (L90)
CONSTRUCTION	
Housing	» aluminum cast
Color	» RAL 7015/9006 » other RAL (on request)
Surface	» matte
Cover	» tempered glass
SAFETY	
Protection class	» I » II
Ambient operating 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 test – Salty spray	» YES (1 500 hours)
Life test	» YES
Certification	» ENEC » ENEC+ » Zhaga-D4i » IDA Dark Sky Approved
CB mark	» YES
RoHS	» YES
REACH	» YES
MOUNTING	
Method	» pole or outrigger (48–60 mm) » adapter (60–76) (on request) » adjustable joint ± 20°
Recommended height	» up to 8 m

CHARACTERISTIC

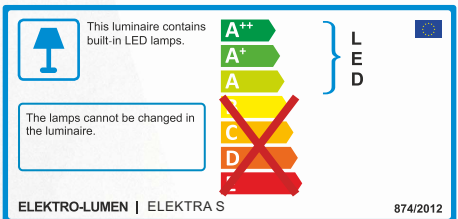
Modern outdoor LED luminaire with integrated surge protection and adjustable joint ± 20°.

USE

Pedestrian zones Outdoor areas

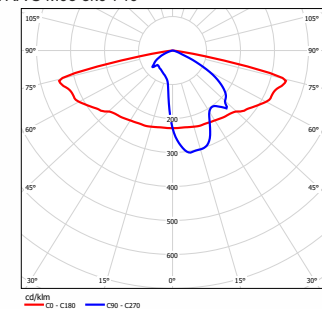
Road classes I., II. and III.

Sidewalks Cycle paths



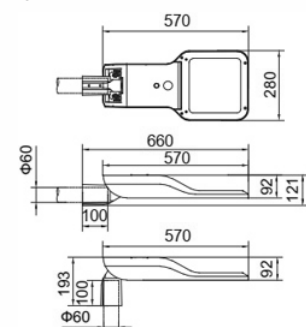
LIGHT DISTRIBUTION CURVE

ELEKTRA S M03 8k0 740



DIMENSIONS

ELEKTRA S



VARIANTS

DATASHEET ELEKTRA S

VARIANTS (chip 3535)	AMBER module (Nxx)			WARM WHITE 722			WARM WHITE 727			WARM WHITE 730			NEUTRAL WHITE 740			Luminaire efficiency (lm/W)	Kg**
	Power consumption (W)	Luminaire output flux (lm)		Power consumption (W)	Luminaire output flux (lm)		Power consumption (W)	Luminaire output flux (lm)		Power consumption (W)	Luminaire output flux (lm)		Power consumption (W)	Luminaire output flux (lm)			
ELEKTRA S Mxx 1k0	11,2	845	935	8,5	831	904	7,9	840	913	7,9	891	963	7,2	862	937	130	4,8
ELEKTRA S Mxx 1k5	—	—	—	12,7	1 286	1 397	11,6	1 286	1 397	10,9	1 303	1 407	10,2	1 311	1 425	140	4,8
ELEKTRA S Mxx 2k0	21	1690	1 870	16	1 781	1 938	13,9	1 680	1 826	13,9	1 783	1 925	12,6	1 724	1 874	149	4,8
ELEKTRA S Mxx 2k5	—	—	—	19,7	2 177	2 366	17,8	2 177	2 366	16	2 125	2 295	14,8	2 091	2 273	154	4,8
ELEKTRA S Mxx 3k0	32,1	2 510	2 777	23,4	2 571	2 795	20,9	2 571	2 795	19,6	2 622	2 832	18,3	2 623	2 852	156	4,8
ELEKTRA S Mxx 3k5	—	—	—	28,1	3 059	3 326	24,5	3 008	3 270	23,2	2 068	3 314	21,5	3 057	3 323	155	4,8
ELEKTRA S Mxx 4k0	44,6	3 313	3 665	33	3 488	3 792	28,1	3 428	3 726	26,8	3 522	3 804	24,3	3 431	3 730	154	4,8
ELEKTRA S Mxx 5k0	53,6	4 242	4693	43,4	4 354	4 733	35,5	4 251	4 621	33	4 268	4 609	31	4 302	4 677	151	4,8
ELEKTRA S Mxx 6k0	65	4969	5 498	48	5 228	5 683	45,5	5 236	5 692	41,1	5 125	5 535	38,3	5 172	5 622	147	4,8
ELEKTRA S Mxx 7k0	—	—	—	55,4	5 879	6 391	48,2	5 969	6 489	45,2	6 042	6 525	40,8	5 873	6 384	156,5	4,8
ELEKTRA S Mxx 8k0	—	—	—	60,8	6 882	7 481	55,4	6 762	7 350	51,7	6 847	7 396	49,2	6 993	7 602	155	4,8
ELEKTRA S Mxx 9k0	—	—	—	69,4	7 627	8 291	61,4	7 722	8 394	59,6	7 696	8 312	55,5	7 758	8 434	152	4,8
ELEKTRA S Mxx 10k0	—	—	—	—	—	—	68,1	8 459	9 195	64,2	8 587	9 335	58,6	8 450	9 186	157	4,8
ELEKTRA S Mxx 11k0	—	—	—	—	—	—	—	—	—	—	—	—	67	9 530	10 359	155	4,8
VARIANTS (čip 5050)	AMBER optics (ALxx)			WARM WHITE 722			WARM WHITE 727			WARM WHITE 730			NEUTRAL WHITE 740				
ELEKTRA S Lxx 1k0	7,3	751	824	—	—	—	7,3	862	900	7,3	898	937	7,3	960	1 002	137	4,8
ELEKTRA S Lxx 1k5	9,8	1 085	1 191	—	—	—	9,8	1 245	1 299	9,8	1 307	1 364	9,8	1 387	1 447	148	4,8
ELEKTRA S Lxx 2k0	12,5	1 495	1 641	—	—	—	12,5	1 725	1 800	12,5	1 805	1 883	12,5	1 911	1 995	160	4,8
ELEKTRA S Lxx 2k5	14,8	1 821	1 999	—	—	—	15,3	2 258	2 356	14,8	2 196	2 291	14,8	2 328	2 430	164	4,8
ELEKTRA S Lxx 3k0	17,5	2 162	2 374	—	—	—	18	2 614	2 727	17,5	2 614	2 727	17,5	2 765	2 885	165	4,8
ELEKTRA S Lxx 3k5	19,5	2 427	2 664	—	—	—	21,6	3 085	3 219	20,8	3 113	3 2492	19,5	3 103	3 238	166	4,8
ELEKTRA S Lxx 4k0	23,1	2 885	3 168	—	—	—	24,5	3 494	3 646	23,1	3 480	3 632	23,1	3 689	3 850	167	4,8
ELEKTRA S Lxx 5k0	28	3 483	3 825	—	—	—	31,1	4 414	4 606	30,6	4 552	4 750	28	4 454	4 648	166	4,8
ELEKTRA S Lxx 6k0	34,1	4 158	4 565	—	—	—	38	5 334	5 566	35,9	5 245	5 473	34,1	5 316	5 548	163	4,8
ELEKTRA S Lxx 7k0	37,5	4 784	5 252	—	—	—	42,5	6 259	6 531	41,3	6 303	6 577	37,5	6 116	6 383	170	4,8
ELEKTRA S Lxx 8k0	45,2	5 667	6 222	—	—	—	49,3	7 174	7 487	46	6 934	7 236	45,2	7 245	7 561	167	4,8
ELEKTRA S Lxx 9k0	49,3	6 237	6 848	—	—	—	55,7	8 001	8 349	51,8	7 868	8 210	49,3	7 974	8 321	169	4,8
ELEKTRA S Lxx 10k0	55,7	6 949	7 626	—	—	—	—	—	—	59,4	8 872	9 258	55,7	8 881	9 268	166	4,8

* Can not be produced under ENEC licence	IDA Dark Sky fixture seal of approval relates to $\leq 3\ 000\ K$
** Weight may vary depending on the luminaire variant	To meet IDA requirements, the luminaires must be installed horizontally with the road
Luminaire ambient temperature TQ 25 °C	Optical and electrical parameters tolerance $\pm 10\ %$
Initial color consistency: $\leq 5\ SDCM$	

The term AMBER in lighting technology refers to light with a minimum amount of the blue part of the light spectrum.

AMBER module - the light emitted from the LED chips on the module is already free of the blue part of the light spectrum (standard PMMA optics).

AMBER optics - the optical system absorbs the blue part of light from the LED module and transmits the remaining light spectrum (special AMBER optics).

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.

CODE DESCRIPTION

ELEKTR	S	II	M01	8k0	730	B124	45CAZ2	SJG	H3S	ENEC	
Name											
Class											
Without marking											Class I
II											Class II
Luminaire generation											
M01											Roads
L01											Roads
P01											Directional
U01											Area
ZP1/ZL1											Pedestrian crossings
K01											Combined optics
AL01											Communication, AMBER optics
N01											Communication, AMBER module
BM2											Back light mask
Luminous flux marking (source)											
Ra 70 / 3 000 K											
LED module marking											
B											TYP LED module
1											
2											
4											Mask type
Driver type											
43											OSRAM 4DIM (DALI) + 3 pole terminal block
45											OSRAM 4DIM (DALI) + 5 pole terminal block
45P											OSRAM 4DIM (DALI) + 5 pole terminal block + presence detection
4											OSRAM 4 DIM
1											OSRAM 1DIM (noDALI)
D											OSRAM DX – Dexal (for Zhaga connector)
C											Constant luminous flux (CLO)
A											AstroDim
Z											Zhaga konektor, 4 pin (Dexal driver)
Z2											2x Zhaga konektor, 4 pin (Dexal driver)
N											NEMA connector, 7 pin (4 DIM driver)
S											Surge protection
J											Fuse 6,3 A
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											