MARUT L G2

DATASHEET | SPECIFICATIONS

CHARACTERISTIC

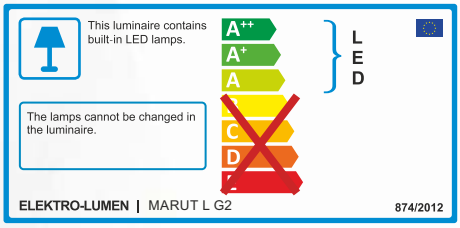
Modern outdoor LED luminaire with integrated surge protection and adjustable joint ± 15°.

USE

Road classes I., II. and III.

Outdoor areas

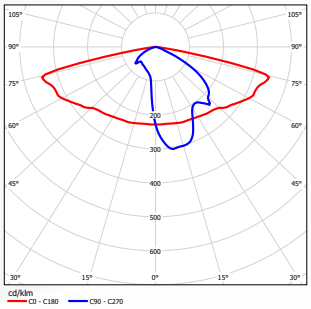
LED | DIMM AD | DALI | IP 66 | IK 09 | CB | EMC | Vibration



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)
Constant lumen output	» CLO (C)
LIGHT PARAMETERS	
Optical system	» roads (Mxx) » roads (Lxx) » directional (Pxx)
	» area (Uxx) » pedestrian crossing (ZLx/ZPx) » AMBER module (Nxx)
	» combined optics (Kxx) » AMBER optics (ALxx) » 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 » TW
Service life	» > 100 000 hours (L90B10)
CONSTRUCTION	
Housing	» aluminum cast
Color	» RAL 7015/9006
Surface	» matte
Cover	» tempered glass
SAFETY	
Protection class	» I » II
Ambient operating temperature	» -40 / +55 °C
Electrical part protection	» IP 66
Mechanical durability	» IK 09
EMC	» YES
Vibration test	» YES
Corrosion test – Salty spray	» YES
Certification	» ENEC » ENEC+ » Zhaga-D4i » IDA Dark sky approved
MOUNTING	
Method	» pole or outrigger (48–60 mm) » adapter (60–76) (on request)
	» adjustable joint ± 15°
Recommended height	» up to 12 m

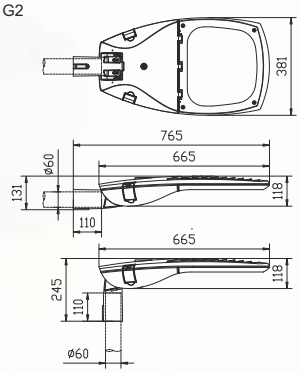
LIGHT DISTRIBUTION CURVE

MARUT L G2 M03 8k0 840



DIMENSIONS

MARUT L G2



VARIANTS

DATASHEET MARUT L G2

VARIANTS (chip 3535)	AMBER module (Nxx)			WARM WHITE 722			WARM WHITE 727			WARM WHITE 730			NEUTRAL WHITE 740				
Name	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)		Luminaire efficiancy (lm/W)	Kg**
		min	max		min	max		min	max		min	max		min	max	Až do	
MARUT L G2 Mxx 7k0	75,6	6 223	6 494	54,4	5 965	6 600	47	5 865	6 488	42	5 702	6 309	41,2	5 957	6 590	160	9,6
MARUT L G2 Mxx 8k0	89,4	7 112	7 422	62,3	6 802	7 525	54,3	6 693	7 405	49,3	6 576	7 275	47	6 701	7 414	158	9,6
MARUT L G2 Mxx 9k0	93,4	8 001	8 349	74	7 521	8 321	62,3	7 764	8 590	59,3	7 747	8 571	54,4	7 638	8 451	155	9,6
MARUT L G2 Mxx 10k0	106,6*	8 890	9 277	72,4	8 232	9 108	69,9	8 299	9 182	64,9	8 333	9 219	61	8 399	9 293	152	9,6
MARUT L G2 Mxx 12k0	124,5*	10 668	11 132	91,6	9 956	11 015	79,7	10 039	11 107	72,4	9 872	10 922	68,9	10 048	11 116	161	9,6
MARUT L G2 Mxx 14k0	—	12 446	12 988	101,7	10 826	11 977	94,8	11 654	12 894	87,5	11 620	12 857	80,2	11 461	12 681	158	9,6
MARUT L G2 Mxx 15k0	—	—	—	—	—	—	101,7	12 457	13 782	94,4	12 490	13 819	88,8	12 591	13 930	157	9,6
MARUT L G2 Mxx 16k0	—	—	—	—	—	—	—	—	—	104*	13 369	14 791	95	13 353	14 773	156	9,6
MARUT L G2 Mxx 18k0	—	—	—	—	—	—	—	—	—	119*	15 017	16 615	110,8*	15 142	16 753	151	9,6

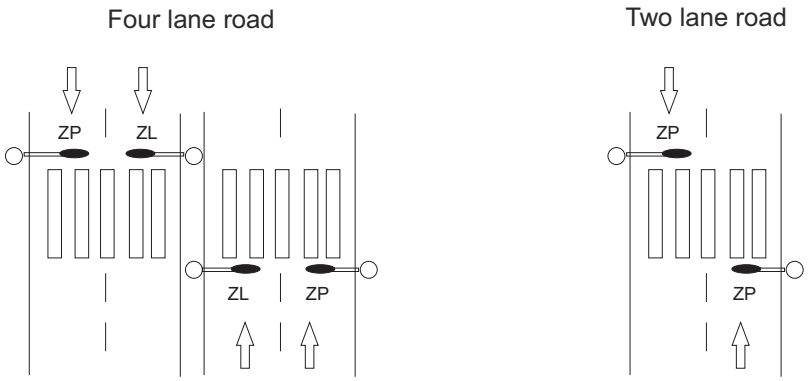
VARIANTS (chip 5050)	AMBER optics (ALxx)			WARM WHITE 722			WARM WHITE 727			WARM WHITE 730			NEUTRAL WHITE 740				
MARUT L G2 Lxx 7k0	36,9	4 337	4 821	—			41,3	6 179	6 448	39,6	6 223	6 494	36,9	6 205	6 475	168	9,6
MARUT L G2 Lxx 8k0	44	5 157	5 733	—			46,4	6 988	7 292	46,4	7 325	7 644	44	7 379	7 700	168	9,6
MARUT L G2 Lxx 9k0	48,7	5 697	6 334	—			53,7	8 019	8 368	51,2	8 045	8 396	48,7	8 152	8 507	167	9,6
MARUT L G2 Lxx 10k0	53,5	6 225	6 921	—			59,5	8 828	9 212	58,5	9 103	9 500	53,5	8 908	9 296	167	9,6
MARUT L G2 Lxx 12k0	65,2	7 431	8 261	—			73,6	10 659	11 123	68,7	10 490	10 947	65,2	10 632	11 095	163	9,6
MARUT L G2 Lxx 14k0	72,4	8 549	9 504	—			79,7	12 089	12 552	79,7	12 597	13 146	72,4	12 233	12 765	169	9,6
MARUT L G2 Lxx 15k0	79,7	9 344	10 388	—			88,5	13 246	13 823	87	13 655	14 249	79,7	13 371	13 953	168	9,6
MARUT L G2 Lxx 18k0	97,1	11 146	12 391	—			—	—	—	102,1*	15 735	16 420	97,1	15 949	16 643	164	9,6

PEDASTRAIN CROSSING	POWER CONSUMPTION (W)		TYPICAL LUMINOUS FLUX (lm)		LUMINAIRE EFFICIANCY	SERVICE LIFE	
Name	Teplota chromatičnosti (K)						
(chip 3535)	4 000 (B124)	5 000 (T3Q51)	min	max	lm/W	L90B10 (hod.)	Kilogram*
MARUT L G2 ZP01 9k0 7x0 (B124 / T3Q51)	54,4	54,4	7 638	8 451	155	> 100 000	9,6
MARUT L G2 ZP01 12k0 7x0 (B124 / T3Q51)	68,9	68,9	10 048	11 116	161	> 100 000	9,6
MARUT L G2 ZP01 15k0 7x0 (B124 / T3Q51)	95	95	13 352	14 773	156	> 100 000	9,6
MARUT L G2 ZP02 9k0 7x0 (B124 / T3Q51)	54,4	54,4	7 638	8 451	155	> 100 000	9,6
MARUT L G2 ZP02 12k0 7x0 (B124 / T3Q51)	68,9	68,9	10 048	11 116	161	> 100 000	9,6
MARUT L G2 ZP02 15k0 7x0 (B124 / T3Q51)	95	95	13 352	14 773	156	> 100 000	9,6
MARUT L G2 ZP03 9k0 7x0 (B124 / T3Q51)	54,4	54,4	7 638	8 451	155	> 100 000	9,6
MARUT L G2 ZP03 12k0 7x0 (B124 / T3Q51)	68,9	68,9	10 048	11 116	161	> 100 000	9,6
MARUT L G2 ZP03 15k0 7x0 (B124 / T3Q51)	95	95	13 352	14 773	156	> 100 000	9,6
MARUT L G2 ZL04 9k0 7x0 (B124 / T3Q51)	54,4	54,4	7 638	8 451	155	> 100 000	9,6
MARUT L G2 ZL04 12k0 7x0 (B124 / T3Q51)	68,9	68,9	10 048	11 116	161	> 100 000	9,6
MARUT L G2 ZL04 15k0 7x0 (B124 / T3Q51)	95	95	13 352	14 773	156	> 100 000	9,6
MARUT L G2 ZL06 9k0 7x0 (B124 / T3Q51)	54,4	54,4	7 638	8 451	155	> 100 000	9,6
MARUT L G2 ZL06 12k0 7x0 (B124 / T3Q51)	68,9	68,9	10 048	11 116	161	> 100 000	9,6
MARUT L G2 ZL06 15k0 7x0 (B124 / T3Q51)	95	95	13 352	14 773	156	> 100 000	9,6

* Can not be produced under ENEC licence	IDA Dark Sky fixture seal of approval relates to ≤ 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 ± 10 %
Initial color consistency: ≤ 5 SDCM	

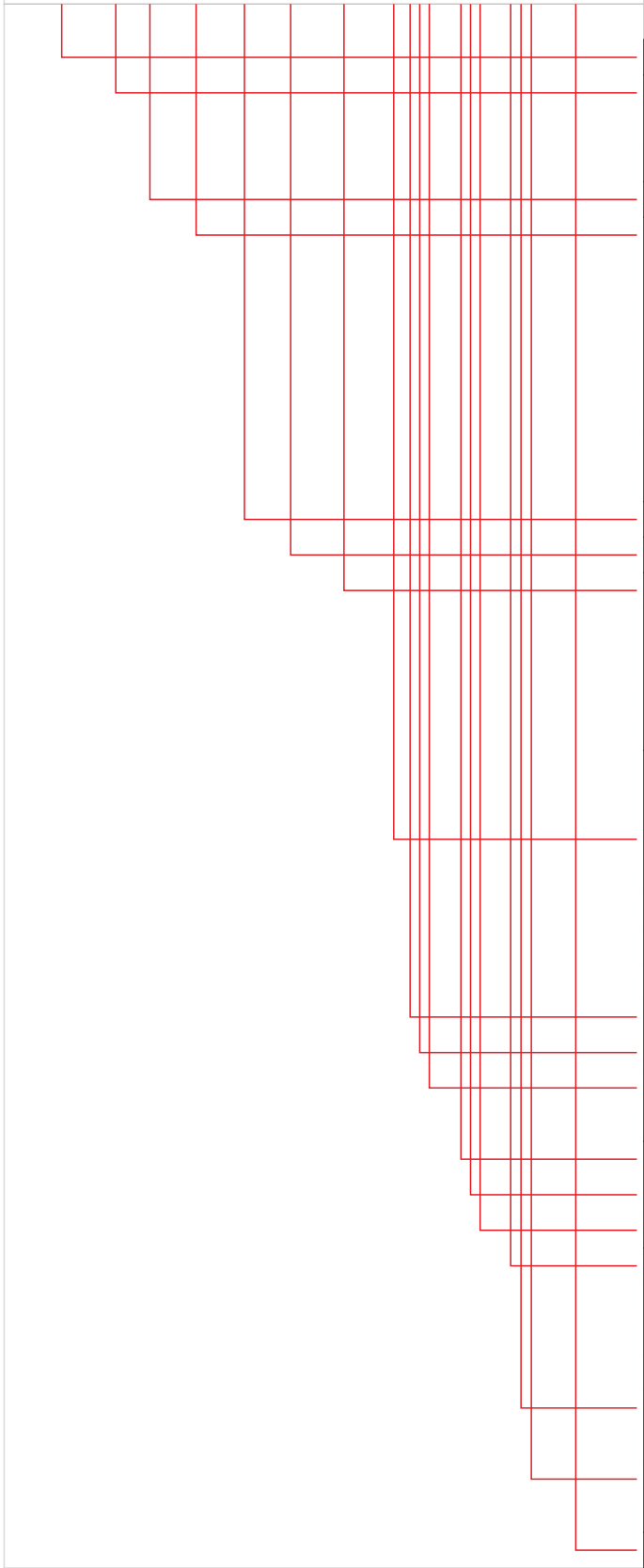
The term AMBER in lighting technology refers to light with a minimum amount of the blue part of the light spectrum.
AMBER module - the light emitted from the LED chips on the module is already free of the blue part of the light spectrum (standard PMMA optics).
AMBER optics - the optical system absorbs 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

MARUT L II G2 M01 8k0 730 B124 45CAZ SJG H3S ENEC



Name	
Class	
Without marking	Class I
II	Class II
Luminaire generation	
Optical system	
M01	Roads
L01	Roads
P01	Directional
U01	Area
ZP1/ZL1	Pedestrian crossings
K01	Combined optics
BM1 / BM2	Backlight mask
Luminous flux marking (source)	
Ra 70 / 3 000 K	
LED module marking	
B	LED module type
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 connectror, 4 pin (Dexal driver)
N	NEMA connector, 7 pin (4 DIM driver)
S	Surge protection 10 kV
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	