

Dodatok č. 1
k zmluve o dielo uzatvorenej podľa § 536 a nasl. zákona č. 513/1991 Zb. Obchodného zákonníka, v znení neskorších predpisov

Zmluvné strany

Objednávateľ

Sídlo:	Obec Veľká Paka
v zastúpení:	Obecný úrad Veľká Paka č. 189, 930 51 Veľká Paka
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(ďalej len ako „objednávateľ“)

a

Zhotoviteľ:

Sídlo:	Marián Zwinger – Elektro - Bak
V zastúpení:	Poľovnícka 24, 90028 Ivanka pri Dunaji
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Zodpovedná osoba na rokovanie vo veciach technických a zmluvných:	SK6511000000002621025373

(ďalej len ako „zhotoviteľ“)

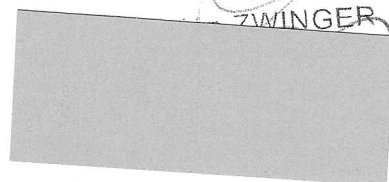
Zmluvné strany v súlade s § 10a zákona č. 25/2006 Z. z. o verejnom obstarávaní v znení neskorších predpisov a čl. XVI bodom 16.5 zmluvy o dielo uzatvorenej podľa § 536 a nasl. zákona č. 513/1991 Zb. Obchodného zákonníka, v znení neskorších predpisov zo dňa 25. novembra 2015 (ďalej len „zmluva“) uzatvárajú tento

dodatok č. 1,

ktorým sa mení obsah zmluvy takto:

Čl. I
Predmet dodatku

1. Z dôvodu nesprávne uvedeného názvu zhotoviteľa sa v záhlaví zmluvy ruší nesprávne označenie zhotoviteľa: „Marián Zwinger“ a nahrádza sa označením: „Marián Zwinger – Elektro – Bak“, ktorý je v súlade so zápisom názvu zhotoviteľa v živnostenskom registri.
2. Príloha č. 1 – Formulár cenovej ponuky (ocenený výkaz výmer/rozpočet) sa ruší, a nahrádza sa novou Prílohou č. 1 s rovnakým názvom.

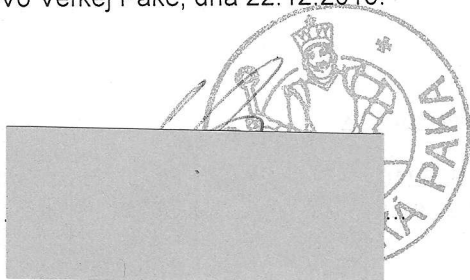


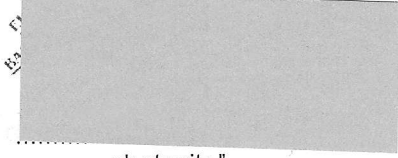
2. Príloha č. 2 – Technické opisy a katalógové listy svietidiel a výložníkov sa ruší, a nahrádza sa novou Prílohou č. 2 s rovnakým názvom.

Čl. II Záverečné ustanovenia

1. Tento dodatok podlieha povinnému zverejneniu podľa § 5a ods. 1 zákona č. 211/2000 Z. z. o slobodnom prístupe k informáciám a o zmene a doplnení niektorých zákonov v znení neskorších predpisov a zákona č. 546/2010 Z. z., ktorým sa dopĺňa zákon č. 40/1964 Zb. Občiansky zákonník v znení neskorších predpisov a ktorým sa menia a dopĺňajú niektoré zákony. Zhotoviteľ berie na vedomie povinnosť objednávateľa zverejniť tento dodatok na čo svojím podpisom dáva súhlas na jeho zverejnenie vrátane jeho príloh.
2. Tento dodatok nadobúda platnosť dňom jeho podpisu oboma zmluvnými stranami a účinnosť dňom nasledujúcim po dni jeho zverejnenia na webovom sídle objednávateľa.
3. Ostatné ustanovenia zmluvy, ktoré sa týmto dodatkom nemenia, ostávajú naďalej v platnosti.
4. Týmto dodatkom nedochádza k zmene predmetu zmluvy, k zmene podmienok plnenia predmetu zmluvy ani k zvýšeniu zmluvnej ceny.
5. Neoddeliteľnou súčasťou toho dodatku je Príloha č. 1 - Formulár cenovej ponuky (ocenený výkaz výmer/rozpočet) a Príloha č. 2 - Technické opisy a katalógové listy svietidiel a výložníkov.
6. Tento dodatok je vyhotovený v štyroch rovnopisoch, z ktorých každá zmluvná strana dostane po dva rovnopisy.

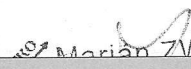
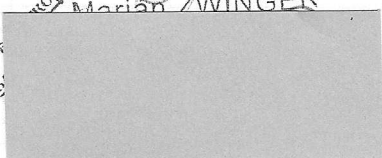
Vo Veľkej Pake, dňa 22.12.2015.




MARIÁN ZWINGER

zhotoviteľ

P.č.	Názov výdavku	MJ	Počet jednotiek	Jednotková cena* (EUR bez DPH)	Cena celkom** (EUR bez DPH)	DPH 20% (EUR)	Cena celkom (EUR s DPH)
1	Demontáž lana ALFE 16mm2	KM	5,669	600,00 €	3 401,40 €	680,28 €	4 081,68 €
2	Demontáž KÁBEL AYKY 4BX16MM2-ULOŽENÝ NA STLP	M	64,000	0,78 €	49,92 €	9,98 €	59,90 €
3	Demontáž KÁBEL CYKY 3CX2,5 MM2 PEVNE ULOŽENÝ	M	180,000	0,21 €	37,80 €	7,56 €	45,36 €
4	Demontáž ZAPOJENIE 4ŽÍL V ISTIČI SKRINE DO 16MM2	KS	8,000	5,70 €	45,60 €	9,12 €	54,72 €
5	Demontáž svietidla na výložníku	KS	90,000	11,00 €	990,00 €	198,00 €	1 188,00 €
6	Demontáž SKRUTKA M20 S IZOL.VK1/2 BIELYM.MEDZI I.	KS	168,000	1,75 €	294,00 €	58,80 €	352,80 €
7	Demontáž PRIPOJENIE ALFE 16 NA ALFE 16 SKR.SVOR.	KS	106,000	0,10 €	10,60 €	2,12 €	12,72 €
8	Demontáž PRIPOJENIE ALFE DO 50 NA ALFE 35+50 S.S.	KS	106,000	0,10 €	10,60 €	2,12 €	12,72 €
9	Demontáž VÁZ DVOJITÝ KRÍŽOVÝ PRE LANO ALFE 16MM2	KS	128,000	0,34 €	43,52 €	8,70 €	52,22 €
10	Demontáž UKONČENIE LANA ALFE 16MM2 SVORKAMI	KS	58,000	1,20 €	69,60 €	13,92 €	83,52 €
11	Demontáž UKONČENIE,ZAP.VOD. 2,5MM2 SVORK.V ROZV.	KS	270,000	0,53 €	143,10 €	28,62 €	171,72 €
12	Demontáž RÚRKA OCHRAN. PVC 63X2,9MM VOĽNE ULOŽENÁ	KS	8,000	0,56 €	4,48 €	0,90 €	5,38 €
13	DEMONTÁŽ ROZV. UAVO NA JEDNOSTLP.STOŽIARI	KS	4,000	10,00 €	40,00 €	8,00 €	48,00 €
14	Demontáž DRŽIAK RÚRKY OCHRANNEJ PRE VRIS	KS	8,000	5,00 €	40,00 €	8,00 €	48,00 €
15	Vodič zväzkový NFA2X 4X25 mm2	M	5 669,000	2,20 €	12 471,80 €	2 494,36 €	14 966,16 €
16	Kábel NAYY 4X25mm2 - uložený na stlp	M	90,000	2,85 €	256,50 €	51,30 €	307,80 €
17	Kábel NAYY 4X50mm2 - uložený na stlp	M	40,000	4,89 €	195,60 €	39,12 €	234,72 €
18	Kábel NAYY 4X25mm2 - voľne uložený - ručne	M	76,000	2,85 €	216,60 €	43,32 €	259,92 €
19	Kábel NAYY 4X50mm2 - voľne uložený - ručne	M	8,000	4,89 €	39,12 €	7,82 €	46,94 €
20	KÁBEL CYKY 3CX2,5 MM2 PEVNE ULOŽENÝ	M	166,000	0,72 €	119,52 €	23,90 €	143,42 €
21	Kábel NAYY 4X25mm2 - pevne uložený	M	18,000	2,85 €	51,30 €	10,26 €	61,56 €
22	Kábel NAYY 4X50mm2 - pevne uložený	M	8,000	4,89 €	39,12 €	7,82 €	46,94 €
23	KONZOLA VPS 600/280 NA BET.STLP JB 220MM	KS	109,000	5,00 €	545,00 €	109,00 €	654,00 €
24	KONZOLA VPS 600MM NA BET.STLP DB	KS	3,000	5,00 €	15,00 €	3,00 €	18,00 €
25	SÚPRAVA KOTEVNÁ 892503 S 2 OKAMI NA JB	KS	2,000	12,00 €	24,00 €	4,80 €	28,80 €
26	OBJÍMKA STRMEŇOVÁ ÚZKA 892560 S OKOM	KS	9,000	15,00 €	135,00 €	27,00 €	162,00 €
27	OBJÍMKA STRMEŇOVÁ ŠIROKÁ 892562 S OKOM	KS	1,000	14,00 €	14,00 €	2,80 €	16,80 €
28	OBJÍMKA STRMEŇOVÁ 892501 S OKOM NA JB	KS	27,000	14,00 €	378,00 €	75,60 €	453,60 €
29	SÚPRAVA KOT. 892566 ŠIROKÁ S 2 OK. NA DB	KS	8,000	20,00 €	160,00 €	32,00 €	192,00 €
30	OBJÍMKA STRMEŇOVÁ 892509 S PREDLŽ.HÁKOM NA JB	KS	2,000	25,00 €	50,00 €	10,00 €	60,00 €
31	UCHYTENIE ZVODU AYKY NA STOŽ. 1 PÁSKOU	KS	219,000	1,00 €	219,00 €	43,80 €	262,80 €
32	ZAPOJENIE 4ŽÍL V ISTIČI SKRINE DO 35MM2	KS	9,000	4,00 €	36,00 €	7,20 €	43,20 €
33	Objímka strmeňová 892509 s predĺženým hákom na DBV	KS	6,000	20,00 €	120,00 €	24,00 €	144,00 €
34	Nosič svietidla na stlp (montáž)	KS	166,000	14,00 €	2 324,00 €	464,80 €	2 788,80 €
35	Svietidlo LED do 44W (montáž)	KS	149,000	14,00 €	2 086,00 €	417,20 €	2 503,20 €
36	Svietidlo LED do 60W (montáž)	KS	17,000	14,00 €	238,00 €	47,60 €	285,60 €
37	PRIPOJENIE ALFE DO 50 NA ALFE 35+50 S.S.	KS	16,000	5,00 €	80,00 €	16,00 €	96,00 €
38	Koncovka 1KV - vnútorná, bez rozdeľovacej hlavy HCZ4, na "V" svorky, 35mm2	KS	9,000	4,54 €	40,86 €	8,17 €	49,03 €
39	Koncovka 1KV - vnútorná, bez rozdeľovacej hlavy HCZ4, na "V" svorky, 50mm2	KS	4,000	4,50 €	18,00 €	3,60 €	21,60 €
40	UKONČENIE,ZAP.VOD. 2,5MM2 SVORK.V ROZV.	KS	498,000	0,90 €	448,20 €	89,64 €	537,84 €
41	PRILOŽKY KONCOVÉ PRE UKONČ. KÁBLU RETILENS	KS	3,000	1,80 €	5,40 €	1,08 €	6,48 €
42	PUZDRO KONCOVÉ 5233/1 (16-120 mm2)	KS	80,000	4,80 €	384,00 €	76,80 €	460,80 €
43	Svorka kotevná 5001/2 (4x10 až 4x35, pre DP)	KS	58,000	4,50 €	261,00 €	52,20 €	313,20 €
44	SVORKA PREPICOVACIA 5209/3AL (hl.ved. 25-120 mm2, odb. 1,5-6 mm2)	KS	332,000	3,60 €	1 195,20 €	239,04 €	1 434,24 €
45	SVORKA PREPICOVACIA 5214/3AL (hl.ved. 25-120 mm2, odb. AYKY 6-70 mm2)	KS	16,000	3,60 €	57,60 €	11,52 €	69,12 €
46	SVORKA BEZ OCHRANNÉHO ROŽKA 3500.01/1 (pre FeZn)	KS	34,000	3,60 €	122,40 €	24,48 €	146,88 €
47	SVORKA PREPICOVACIA 5214/3 (hl.ved. 25-120 mm2, odb. 6-70 mm2 - izol., LVA)	KS	60,000	3,60 €	216,00 €	43,20 €	259,20 €
48	Svorka nosná 4X25mm2 pre NFA2X	KS	128,000	4,00 €	512,00 €	102,40 €	614,40 €
49	Svorka prepichovacia 5210/3 (hl.ved. 6-70 mm2, odb. 4-35 mm2)	KS	370,000	5,00 €	1 850,00 €	370,00 €	2 220,00 €
50	Montáž obmedzovača prepätia LVA-440-CS (pre izolované vedenia)	KS	60,000	4,00 €	240,00 €	48,00 €	288,00 €
51	UZEMNENIE NA POVRCHU, PÁSKA FEZN 30X4MM	M	52,000	4,00 €	208,00 €	41,60 €	249,60 €
52	UZEMNENIE V ZEMI, PÁSKA FEZN 30X4MM	M	498,000	0,70 €	348,60 €	69,72 €	418,32 €
53	SVORKA ZEMNIACA TYP SR03	KS	38,000	1,58 €	60,04 €	12,01 €	72,05 €
54	SVORKA TYP SJ02 K ZEMNIACIM TYČIAM	KS	200,000	2,20 €	440,00 €	88,00 €	528,00 €
55	MERANIE UZEMNENIA NUL.VODIČA ZAR.NN	KS	26,000	6,90 €	179,40 €	35,88 €	215,28 €
56	ZAHÁDZANIE RYHY35X70CM PRE ZEM.PÁSIK,ZT3	M	498,000	3,00 €	1 494,00 €	298,80 €	1 792,80 €
57	HLBENIE RYHY35X70CM STROJ.PRE ZEM.P.,ZT3	M	498,000	2,00 €	996,00 €	199,20 €	1 195,20 €
58	LANO FEZN 50MM2 K PREPOJENIU UZEMNENIA	M	260,000	3,00 €	780,00 €	156,00 €	936,00 €
59	MONTÁŽ ZEMNEJ TYČE 2000/28MM	KS	200,000	7,00 €	1 400,00 €	280,00 €	1 680,00 €

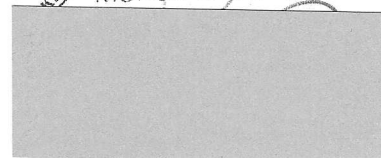
60	LIŠTA OCHRANNÁ NA UZEMNENIE 2M PLASTOVÁ	KS	26,000	4,00 €	104,00 €	20,80 €	124,80 €
61	VYTYČENIE TRASY VONK.VED.NN V NEPREHL.T.	KM	5,669	50,00 €	283,45 €	56,69 €	340,14 €
62	RÚRKA PANCIER.OCEL. 36MM PEVNE ULOŽENÁ	M	29,000	4,00 €	116,00 €	23,20 €	139,20 €
63	RÚRKA PANCIER.OCEL. 42MM PEVNE ULOŽENÁ	M	12,000	4,50 €	54,00 €	10,80 €	64,80 €
64	KONTROLA POSTAVENÉHO VEDENIA	KM	5,669	45,00 €	255,11 €	51,02 €	306,13 €
65	VYTYČOVANIE INŽINIER.SIETÍ	HO	1,000	20,00 €	20,00 €	4,00 €	24,00 €
66	KONTROLA SLEDU FÁZ	KS	18,000	5,00 €	90,00 €	18,00 €	108,00 €
67	Svietidlo LED do 44W (dodávka), typ svetidla VIZULO STORK 37W	KS	149,000	300,00 €	44 700,00 €	8 940,00 €	53 640,00 €
68	VODIČ ZVÁZKOVÝ NFA2X 4X25MM2 RM	M	5 952,450	0,70 €	4 166,72 €	833,34 €	5 000,06 €
69	Svietidlo LED do 66W (dodávka), typ svetidla VIZULO STORK 51W	KS	17,000	320,00 €	5 440,00 €	1 088,00 €	6 528,00 €
70	Nosič svetidla na stĺp (dodávka), typ	KS	166,000	18,00 €	2 988,00 €	597,60 €	3 585,60 €
71	TYČ ZEMNIAČA FÍ 26MM-2M	KS	200,000	9,00 €	1 800,00 €	360,00 €	2 160,00 €
72	PODLOŽKA HLADKÁ DIN 125 ZN FI 17 MM	KS	226,000	0,05 €	11,30 €	2,26 €	13,56 €
73	KONZOLA 600MM POZINKOVANÁ	KS	112,000	2,00 €	224,00 €	44,80 €	268,80 €
74	STRMEŇ SVORNIK. 270X280MM NA STOŽIAR	KS	110,000	1,50 €	165,00 €	33,00 €	198,00 €
75	MATICA PRESNÁ DIN 934 M16 TR.8,0 POZINK.	KS	226,000	0,10 €	22,60 €	4,52 €	27,12 €
76	SVORKA PREPICOVACIA 5210/3	KS	370,000	3,50 €	1 295,00 €	259,00 €	1 554,00 €
77	OBMEDZOVAC PREPÁZIA A nn LVA-440B-KL	KS	60,000	3,00 €	180,00 €	36,00 €	216,00 €
78	SVORKA PREPICOVACIA 5209/3	KS	332,000	3,50 €	1 162,00 €	232,40 €	1 394,40 €
79	PRAMENEC OCEĽOVÝ 50 MM,540MPA	KG	109,200	1,40 €	152,88 €	30,58 €	183,46 €
80	SVORKA NOSNÁ 4X25 (4X16) mm2 pre NFA2X	KS	128,000	6,50 €	832,00 €	166,40 €	998,40 €
81	OBJÍMKA STRMEŇOVÁ 892501 S OKOM	KS	27,000	14,00 €	378,00 €	75,60 €	453,60 €
82	SVORKA BEZ OCHRANNÉHO ROŽKA 3500.01/1	KS	34,000	15,00 €	510,00 €	102,00 €	612,00 €
83	PÁSKA ZEMNIAČA POZINKOVANÁ 30X4MM	KG	518,100	0,90 €	466,29 €	93,26 €	559,55 €
84	PÁS NA UCHYTENIE ZVODU 1,4 M	KS	297,000	0,66 €	196,02 €	39,20 €	235,22 €
85	OBJÍMKA STRMEŇOVÁ 892560 ÚZKA S OKOM	KS	9,000	23,00 €	207,00 €	41,40 €	248,40 €
86	SVORKA K UZEMŇOVACEJ TYČI SJ 02M	KS	200,000	0,44 €	88,00 €	17,60 €	105,60 €
87	SVORKA PREPICOVACIA 5214/3	KS	60,000	4,00 €	240,00 €	48,00 €	288,00 €
88	SÚPRAVA KOTEVNÁ 892566 S OKOM NA DBV	KS	8,000	34,50 €	276,00 €	55,20 €	331,20 €
89	SVORKA KOTEVNÁ 5001/2- DOMOVÉ PRÍPOJKY	KS	58,000	3,00 €	174,00 €	34,80 €	208,80 €
90	STRMEŇ SVORNIK. 270X520MM NA STOŽIAR	KS	9,000	4,00 €	36,00 €	7,20 €	43,20 €
91	OBJÍMKA STRMEŇOVÁ 892509 S PREDLŽ.HÁKOM	KS	8,000	17,50 €	140,00 €	28,00 €	168,00 €
92	PUZDRO KONCOVÉ 5233/1	KS	80,000	0,50 €	40,00 €	8,00 €	48,00 €
93	SKRUT.DO DREVA 5X25 DIN 96 POZ	KS	164,000	0,20 €	32,80 €	6,56 €	39,36 €
94	RÚRKA PANCIEROVÁ 6036	M	29,000	6,00 €	174,00 €	34,80 €	208,80 €
95	KÁBEL NAYY-J 4X25	M	193,200	1,50 €	289,80 €	57,96 €	347,76 €
96	LIŠTA OCHRANNÁ NA UZEMNENIE 2M PLASTOVÁ	KS	26,000	2,00 €	52,00 €	10,40 €	62,40 €
97	KÁBEL NAYY-J 4X50	M	58,800	4,89 €	287,53 €	57,51 €	345,04 €
98	KÁBEL CYKY - J 3X2,5 MM2	M	175,350	0,90 €	157,82 €	31,56 €	189,38 €
99	RÚRKA PANCIEROVÁ 6042	M	12,000	7,40 €	88,80 €	17,76 €	106,56 €
100	SVORKA PREP.PRE ODB.VODIČ HOLÝ 5214/3BL	KS	16,000	4,20 €	67,20 €	13,44 €	80,64 €
101	SÚPRAVA KOTEVNÁ 892503 S DVOMA OKAMI	KS	2,000	24,00 €	48,00 €	9,60 €	57,60 €
102	SVORKA 669105 PRE ALFE 6+50MM2	KS	16,000	1,15 €	18,40 €	3,68 €	22,08 €
103	MAZIVO CONTACTIN-CU	KG	0,016	14,20 €	0,23 €	0,05 €	0,28 €
104	SVORKA UZEMŇOVACIA SR 03E	KS	38,000	0,44 €	16,72 €	3,34 €	20,06 €
105	OBJÍMKA STRMEŇOVÁ 892562 S OKOM DBW	KS	1,000	24,00 €	24,00 €	4,80 €	28,80 €
106	ŠTÍTOK OZ. NA KÁBEL Č.V.359050 - PVC	KS	13,000	0,09 €	1,17 €	0,23 €	1,40 €
107	PÁSKA STAHOVACIA 360X4,8 MM	BAL	0,130	2,96 €	0,38 €	0,08 €	0,46 €
108	SKRUTKA DIN 931 M 20X110 TR.8,8 ZN	KS	6,000	0,45 €	2,70 €	0,54 €	3,24 €
109	MATICA PRESNÁ DIN 934 M20 TR.8,0 POZINK.	KS	6,000	0,11 €	0,66 €	0,13 €	0,79 €
110	PRÍLOŽKA KONCOVÁ	KS	6,000	0,45 €	2,70 €	0,54 €	3,24 €
Cena celkom bez DPH:					104 329,16 €		
DPH (20%):						20 865,83 €	
Cena celkom s DPH:							125 194,99 €


 Marian ZWINGER


P.č.	Technické vlastnosti (s mernou jednotkou)	Jednotka	Minimum	Maximum	Presná navrhovaná hodnota
1	Požadovaný počet svetidiel	ks			17
2	Krytie svetidla (odolnosť voči prachu a vode) zodpovedajúce	IP	IP 66		IP 66
3	Účinník svetidla	Cos fi	0,95*		0,96
4	Index podania farby	Ra	70*		70
5	Príkon svetidla	Watt		60	51
6	Merný výkon svetidla	lumen / Watt	87		107
7	Uhol vyloženia / naklonenia svetidla od vozovky	uhol	5°		0,5, 10
8	Náhradná teplota chromatickosti svetelného zdroja	Kelvin			5000
9	Životnosť svetidla pri L80F10	hodín			100 000
10	Rozsah požadovanej regulácie svetelného toku	%	50	100	50-100
11	Minimálny stupeň regulácie svetelného toku	%	50		50
12	Mechanická ochrana svetidla		IK 08		IK09
13					
14					
15					
16					
P.č.	Technické vlastnosti (bez mernej jednotky)	Hodnota / Charakteristika			
1	podmienka splnenia ekodesing	vyžaduje sa splnenie požiadaviek podľa nariadenia komisie ES 245/2009;			
2	typ predradníka	elektronický predradník s autonómnym riadením inštalovaný priamo vo			
3	typ svetelného zdroja	LED			
4	ochrana proti prehriatiu	áno			
5	materiál telesa	tlakovoliaty hliník			
6	pracovná teplota	-40 °C < Ta < 50 °C			
7	certifikáty ENEC a CE	áno			
8	platná legislatíva /splnenie požiadaviek STN EN 13201 (súbory 1 až 4)/	áno			
9					
10					
11					
12					
13					
14					



 Marián ZWINGER



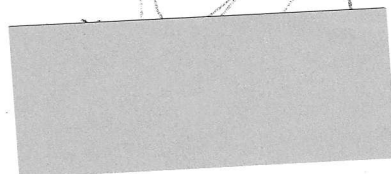
P.č.	Technické vlastnosti (s mernou jednotkou)	Jednotka	Minimum	Maximum	Presná navrhovaná hodnota
1	Požadovaný počet svietidiel	ks			149
2	Krytie svietidla (odolnosť voči prachu a vode) zodpovedajúce	IP	IP 66		IP66
3	Účinník svietidla	Cos fi	0,95*		0,99
4	Index podania farby	Ra	70*		70
5	Príkon svietidla	Watt		44	37
6	Merný výkon svietidla	lumen / Watt	87		110
7	Uhol vyloženia / naklonenia svietidla od vozovky	uhol	5°		0,5,10
8	Náhradná teplota chromatickosti svetelného zdroja	Kelvin			5000
9	Životnosť svietidla pri L80F10	hodín			100 000
10	Rozsah požadovanej regulácie svetelného toku	%	50	100	50-100
11	Minimálny stupeň regulácie svetelného toku	%	50		50
12	Mechanická ochrana svietidla		IK 08		IK09
13					
14					
15					
16					
P.č.	Technické vlastnosti (bez mernej jednotky)	Hodnota / Charakteristika			
1	podmienka splnenia ekodesing	vyžaduje sa splnenie požiadaviek podľa nariadenia komisie ES 245/2009;			
2	typ predradníka	elektronický predradník s autonómnym riadením inštalovaný priamo vo svietidlách			
3	typ svetelného zdroja	LED			
4	ochrana proti prehriatiu	áno			
5	materiál telesa	tlakovoliaty hliník			
6	pracovná teplota	-40 °C < Ta < 50 °C			
7	certifikáty ENEC a CE	áno			
8	platná legislatíva /splnenie požiadaviek STN EN 13201 (súbory 1 až 4)/ *	áno			

 Marián ZWINGER

Project - VELKA PAKA

Partner for Contact:
Order No.: Project - PAKA
Company:
Customer No.:

Date: 21.12.2015
Operator:

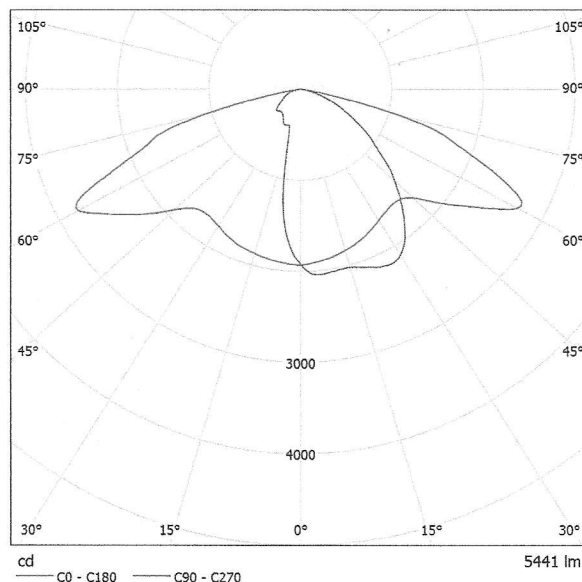


Operator
Telephone
Fax
e-Mail

VIZULO STORK 51W SR 051 740 02 01 2 S N ND 03 1 / Luminaire Data Sheet

Luminous emittance 1:

See our luminaire catalog for an image of the luminaire.



Luminaire classification according to CIE: 100
CIE flux code: 39 73 97 100 100

Due to missing symmetry properties, no UGR table can be displayed for this luminaire.

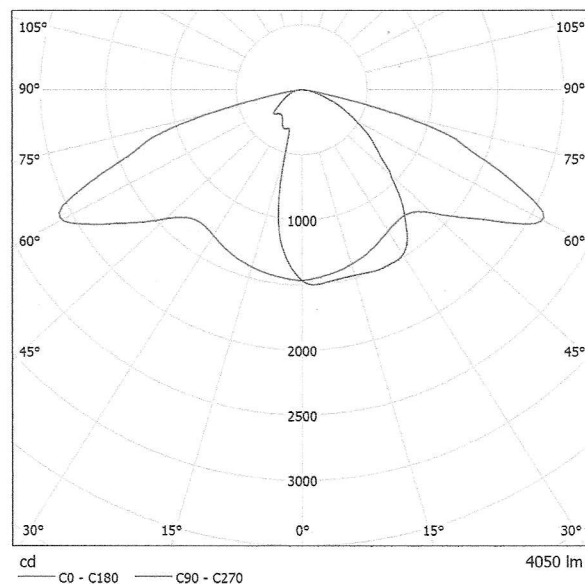
ELEKTRO Marian ZWINGER

Operator
Telephone
Fax
e-Mail

VIZULO STORK 37 W SR 037 740 02 01 1 S N ND 03 1 / Luminaire Data Sheet

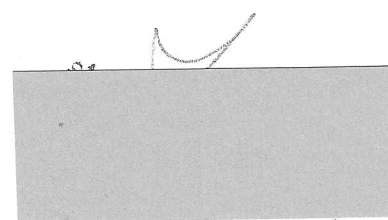
See our luminaire catalog for an image of the luminaire.

Luminous emittance 1:



Luminaire classification according to CIE: 100
CIE flux code: 40 73 97 100 100

Due to missing symmetry properties, no UGR table can be displayed for this luminaire.



Operator
Telephone
Fax
e-Mail

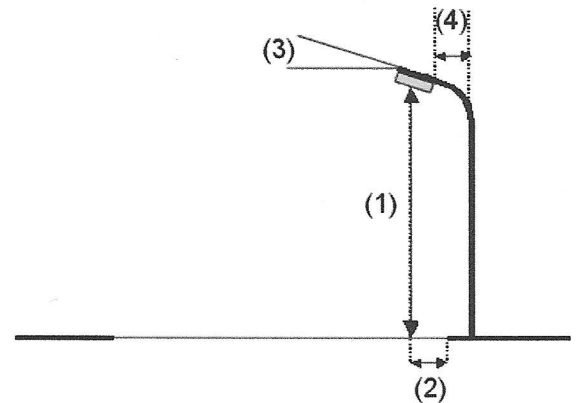
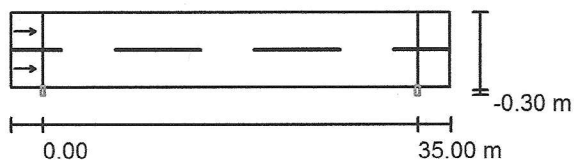
ME5 DO 60W / Planning data

Street Profile

Vozovka 1 (Width: 7.000 m, Number of lanes: 2, tarmac: R3, q0: 0.070)

Maintenance factor: 0.94

Luminaire Arrangements



Luminaire:	VIZULO STORK 51W SR 051 740 02 01 2 S N ND 03 1
Luminous flux (Luminaire):	5441 lm
Luminous flux (Lamps):	5441 lm
Luminaire Wattage:	51.0 W
Arrangement:	Single row, bottom
Pole Distance:	35.000 m
Mounting Height (1):	7.500 m
Height:	7.453 m
Overhang (2):	-0.300 m
Boom Angle (3):	0.0 °
Boom Length (4):	1.000 m

Maximum luminous intensities

at 70°:	456 cd/klm
at 80°:	64 cd/klm
at 90°:	0.00 cd/klm

Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.

No luminous intensities above 90°.

Arrangement complies with luminous intensity class G4.

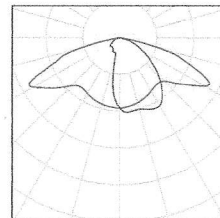
Arrangement complies with glare index class D.6.

Operator
Telephone
Fax
e-Mail

ME5 DO 60W / Luminaire parts list

VIZULO STORK 51W SR 051 740 02 01 2 S N
ND 03 1 (Type 1)
Article No.: VIZULO STORK 51W
Luminous flux (Luminaire): 5441 lm
Luminous flux (Lamps): 5441 lm
Luminaire Wattage: 51.0 W
Luminaire classification according to CIE: 100
CIE flux code: 39 73 97 100 100
Fitting: 1 x User defined (Correction Factor
1.000).

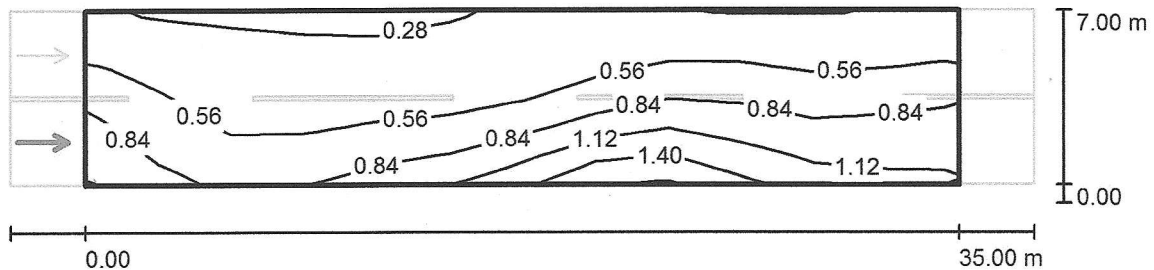
See our luminaire
catalog for an image of
the luminaire.



FILE
BAK

Operator
Telephone
Fax
e-Mail

ME5 DO 60W / Vozovka 1 / Observer 1 / Isolines (L)

Values in Candela/m², Scale 1 : 294

Grid: 12 x 6 Points

Observer Position: (-60.000 m, 1.750 m, 1.500 m)

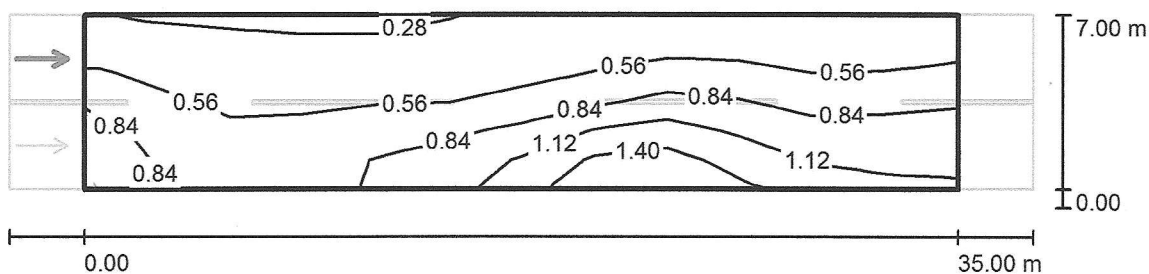
tarmac: R3, q0: 0.070

	L_{av} [cd/m ²]	U0	UI	TI [%]
Calculated values:	0.66	0.37	0.42	10
Required values according to class ME5:	≥ 0.50	≥ 0.35	≥ 0.40	≤ 15
Fulfilled/Not fulfilled:	✓	✓	✓	✓

Marian ZWINGER

Operator
Telephone
Fax
e-Mail

ME5 DO 60W / Vozovka 1 / Observer 2 / Isolines (L)



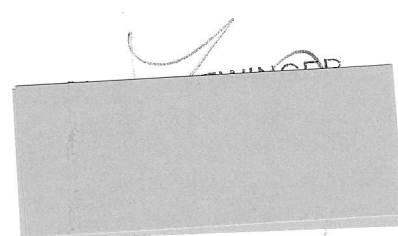
Values in Candela/m², Scale 1 : 294

Grid: 12 x 6 Points

Observer Position: (-60.000 m, 5.250 m, 1.500 m)

```
tarmac: R3, q0: 0.070
```

	L_{av} [cd/m ²]	U0	UI	TI [%]
Calculated values:	0.71	0.36	0.58	6
Required values according to class ME5:	≥ 0.50	≥ 0.35	≥ 0.40	≤ 15
Fulfilled/Not fulfilled:	✓	✓	✓	✓



Operator
Telephone
Fax
e-Mail

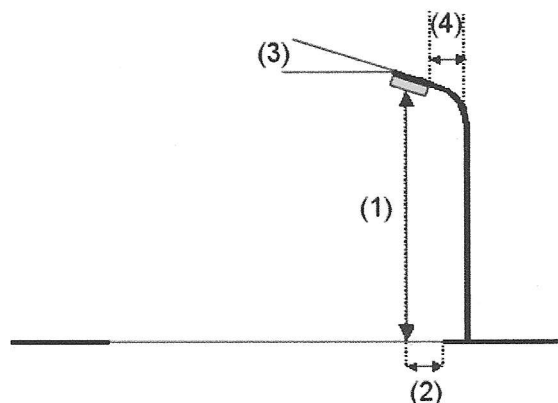
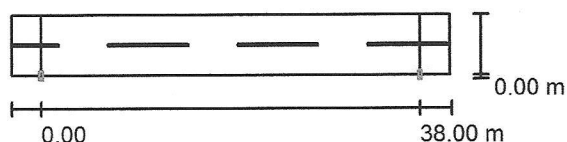
CE5 DO 44W / Planning data

Street Profile

Vozovka 1 (Width: 6.000 m, Number of lanes: 2, tarmac: R3, q0: 0.070)

Maintenance factor: 0.94

Luminaire Arrangements



Luminaire:	VIZULO STORK 37 W SR 037 740 02 01 1 S N ND 03 1
Luminous flux (Luminaire):	4090 lm
Luminous flux (Lamps):	4090 lm
Luminaire Wattage:	37.0 W
Arrangement:	Single row, bottom
Pole Distance:	38.000 m
Mounting Height (1):	7.500 m
Height:	7.453 m
Overhang (2):	0.000 m
Boom Angle (3):	0.0 °
Boom Length (4):	2.000 m

Maximum luminous intensities

at 70°: 447 cd/klm

at 80°: 60 cd/klm

at 90°: 0.00 cd/klm

Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.

No luminous intensities above 90°.

Arrangement complies with luminous intensity class G4.

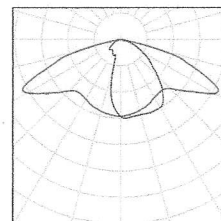
Arrangement complies with glare index class D.6.

Operator
Telephone
Fax
e-Mail

CE5 DO 44W / Luminaire parts list

VIZULO STORK 37 W SR 037 740 02 01 1 S N
ND 03 1 (Type 1)
Article No.: VIZULO STORK 37 W
Luminous flux (Luminaire): 4090 lm
Luminous flux (Lamps): 4090 lm
Luminaire Wattage: 37.0 W
Luminaire classification according to CIE: 100
CIE flux code: 40 73 97 100 100
Fitting: 1 x User defined (Correction Factor
1.000).

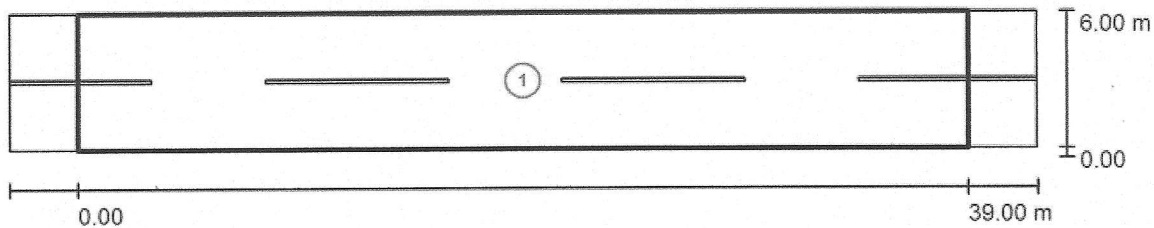
See our luminaire
catalog for an image of
the luminaire.



MTKO Marian ZWINGER

Operator
Telephone
Fax
e-Mail

CE5 DO 44W / Photometric Results



Maintenance factor: 0.94

Scale 1:322

Calculation Field List

- 1 Vozovka 1
Length: 39.000 m, Width: 6.000 m
Grid: 13 x 4 Points
Accompanying Street Elements: Vozovka 1.
Selected Lighting Class: CE5 (All lighting performance requirements are met.)

Calculated values:

Required values according to class:

Fulfilled/Not fulfilled:

E_{av} [lx]	U0
8.28	0.41
≥ 7.50	≥ 0.40
✓	✓

WINGER

Table 1
Table 2
Table 3
Table 4

Calculation Results



Table 1.0.0.0

Table 1.0.0.0

Calculation Results

Table 1.0.0.0

Table 1.0.0.0

Table 1.0.0.0

Table 1.0.0.0

Table 1.0.0.0

Table 1.0.0.0

Table 1.0.0.0

Table 1.0.0.0

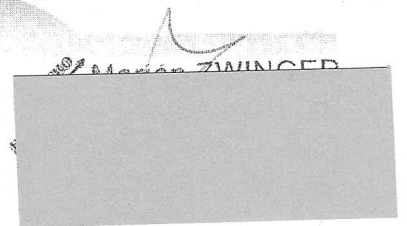
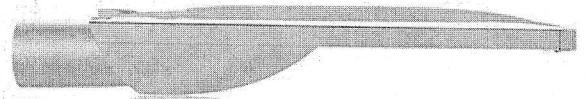
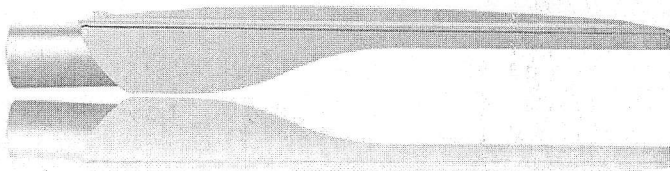
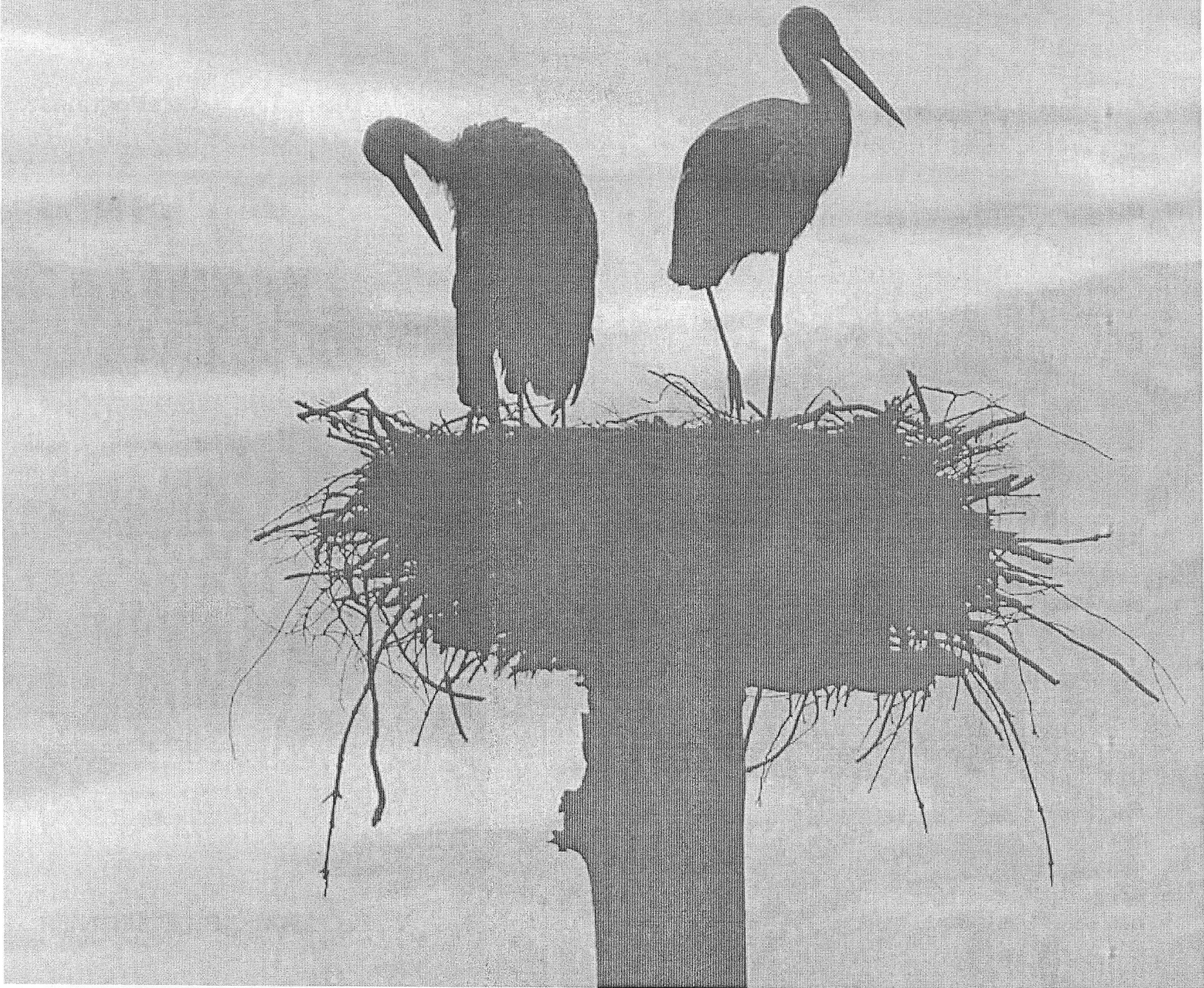
Table 1.0.0.0

Table 1.0.0.0

Table 1.0.0.0

Table 1.0.0.0

INSPIRATION FROM NATURE



VIZULO

STORK & STORK LITTLE BROTHER

CE RoHS

KEMA
KEUR

EN
EC 05

VIZULO STORK & STORK LITTLE BROTHER

Color options



Black
RAL90050



Asphalt
RAL71385

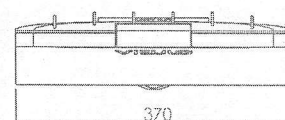
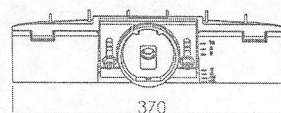
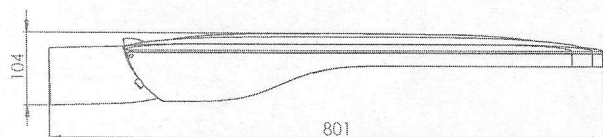


Gray
RAL90070

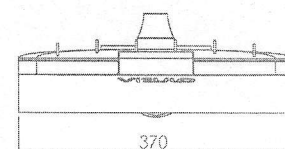
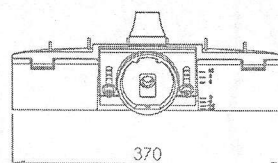
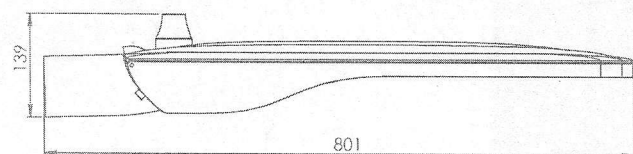


Silver
RAL90060

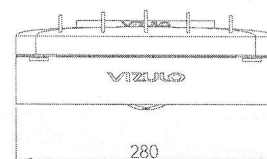
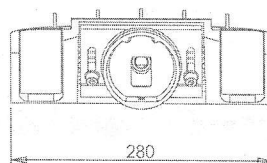
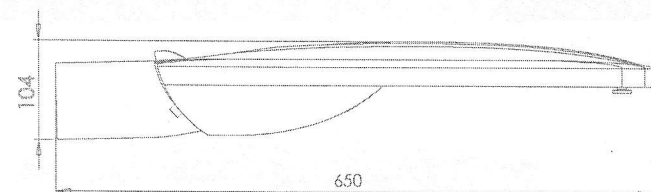
Dimension drawings VIZULO STORK



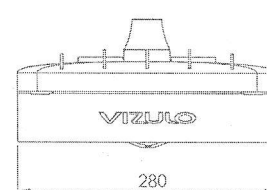
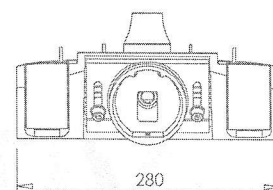
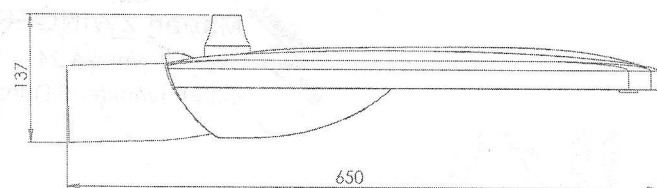
Dimensions with RF antenna



Dimension drawings VIZULO STORK LITTLE BROTHER



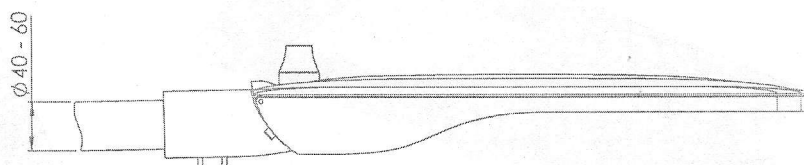
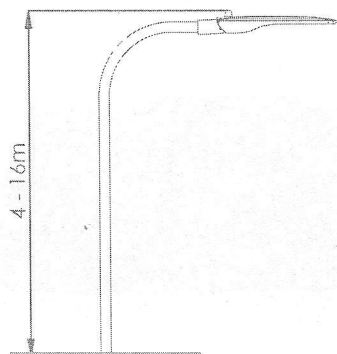
Dimensions with RF antenna



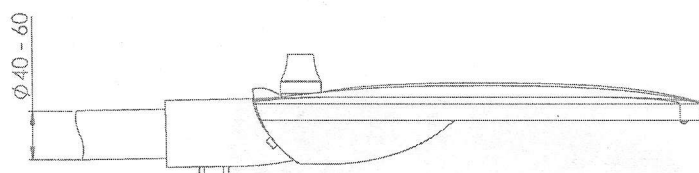
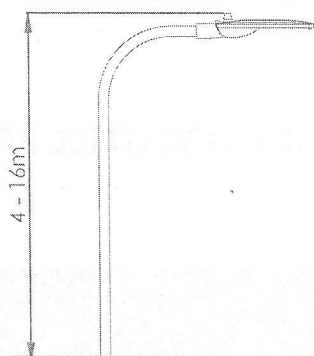
ELECTRO
FAB
Marian ZWINGER

VIZULO STORK & STORK LITTLE BROTHER

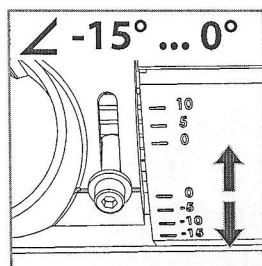
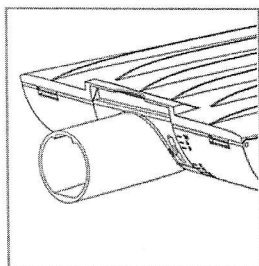
Console drawings VIZULO STORK



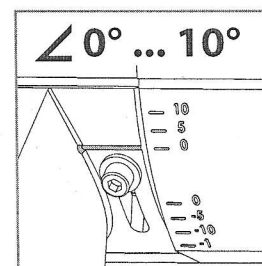
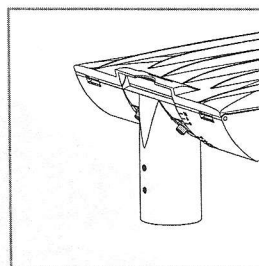
Console drawings VIZULO STORK LITTLE BROTHER



VIZULO STORK Street light - angle positions

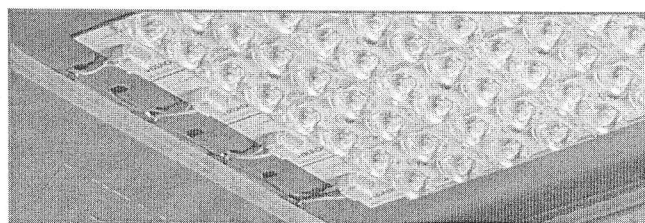
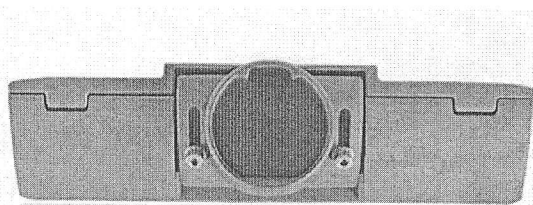
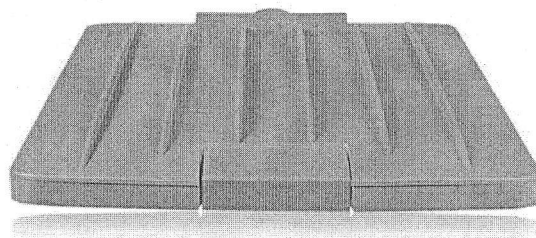
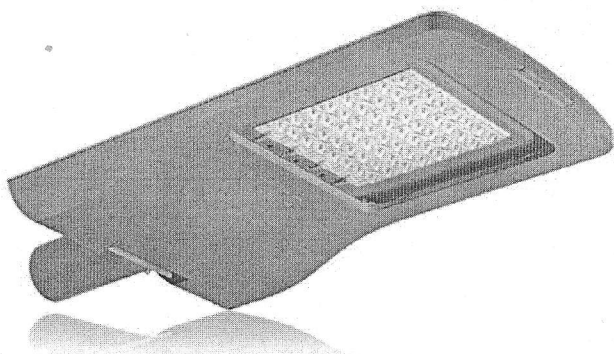


Horizontal entry -15 ... 0

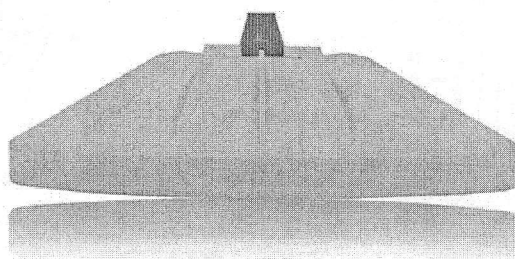
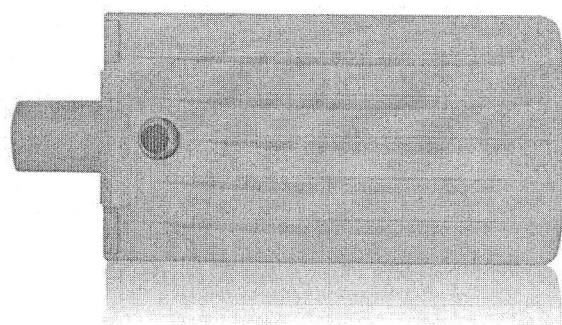
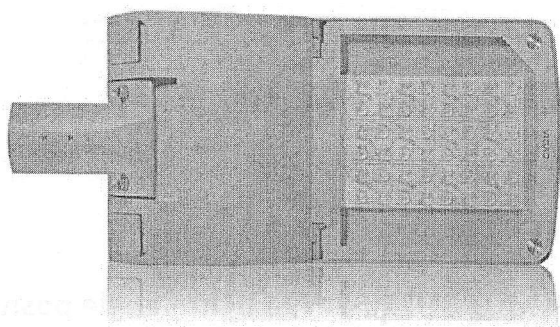


Vertical entry 0 ... 10

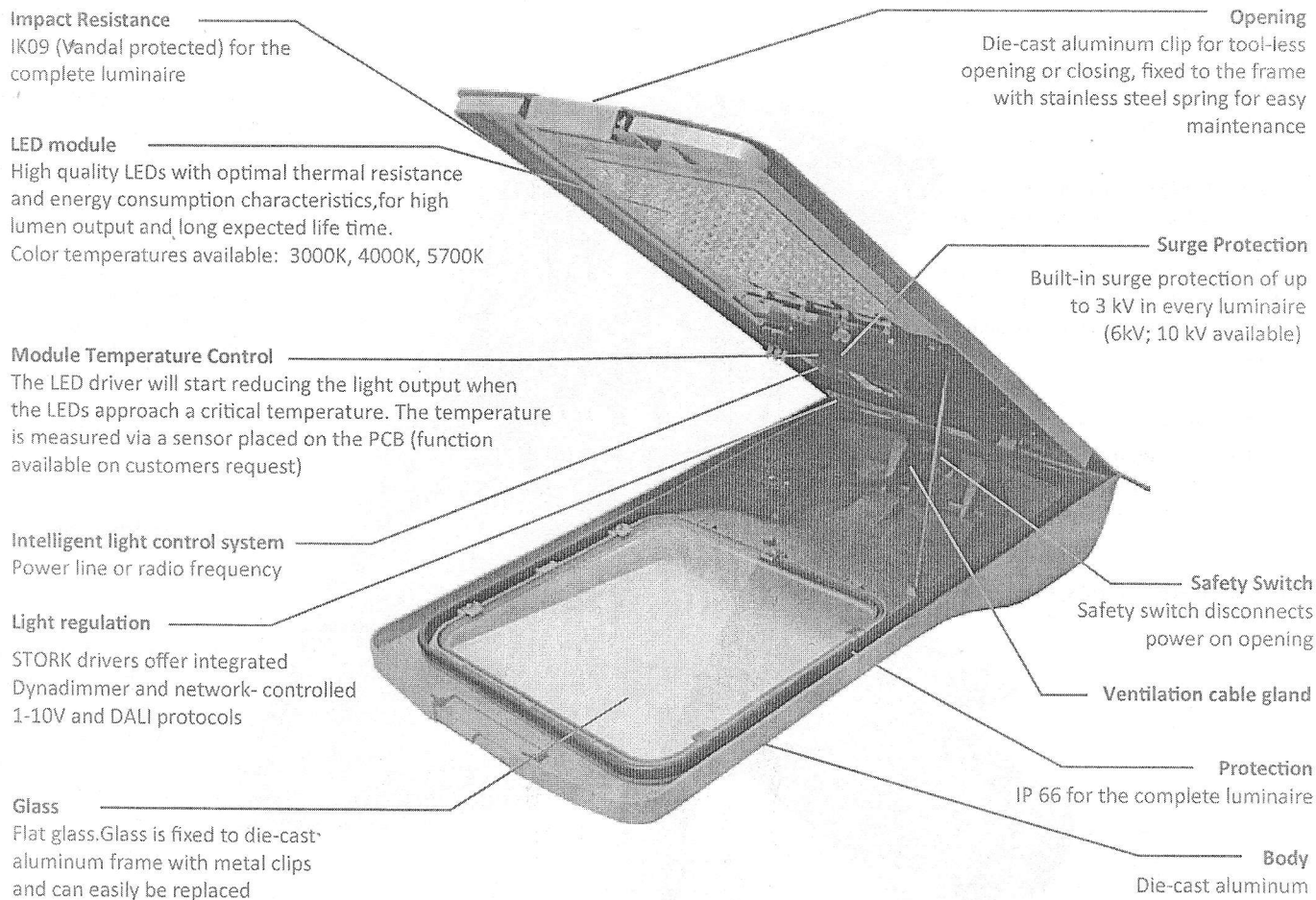
VIZULO STORK



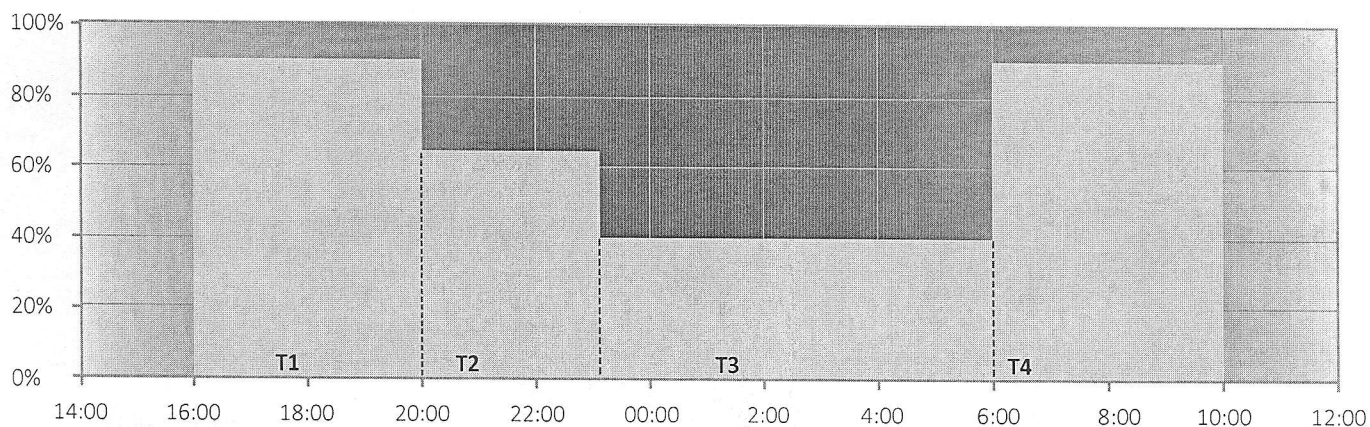
VIZULO STORK LITTLE BROTHER




 Fachhochschule
 Westfalen
 Marián ZWINGER

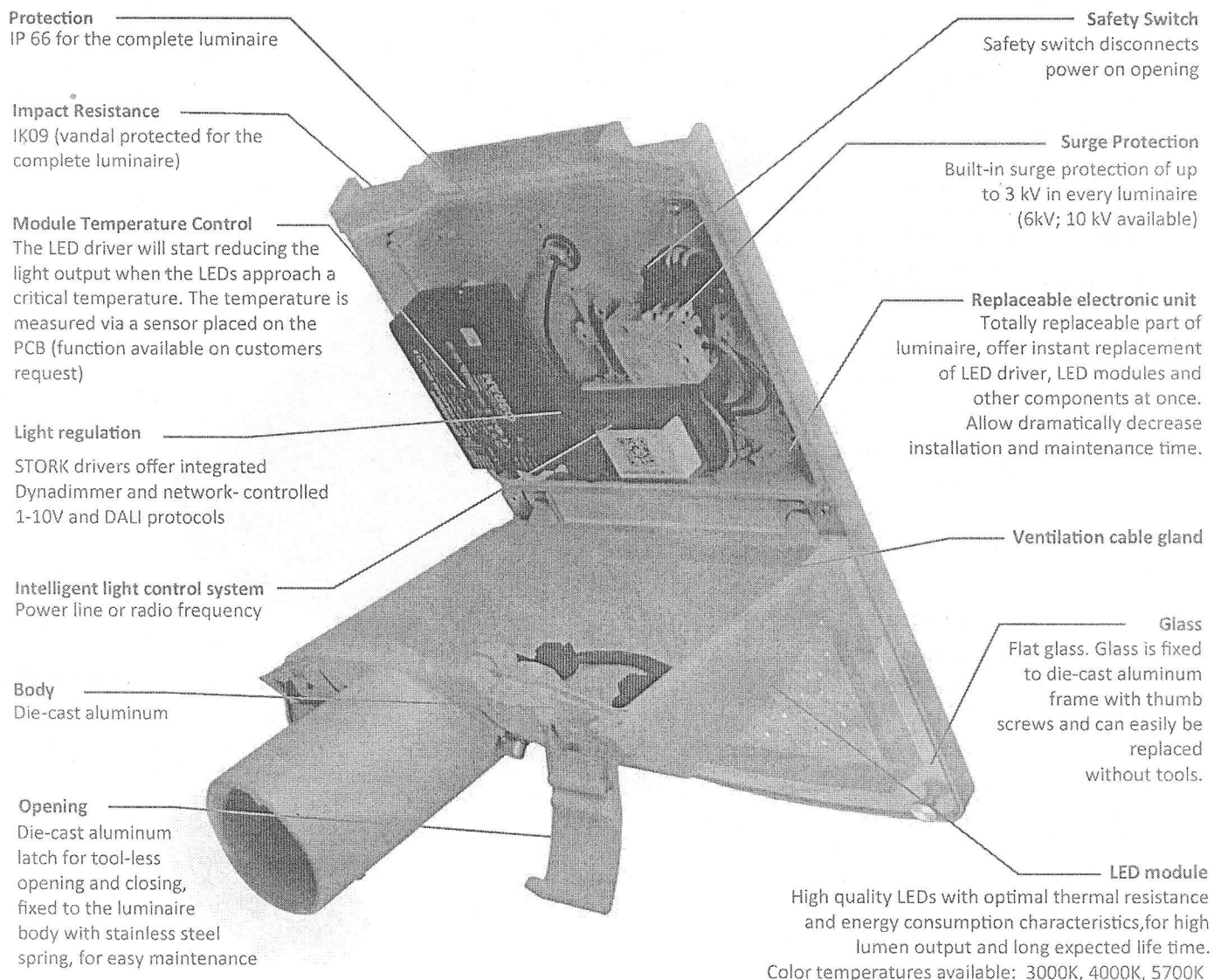


Integrated Dynadim/Astrodim lighting control allows pre-programmed multi-level dimming. Lowering light levels during off-peak hours, gives considerable savings in energy costs.

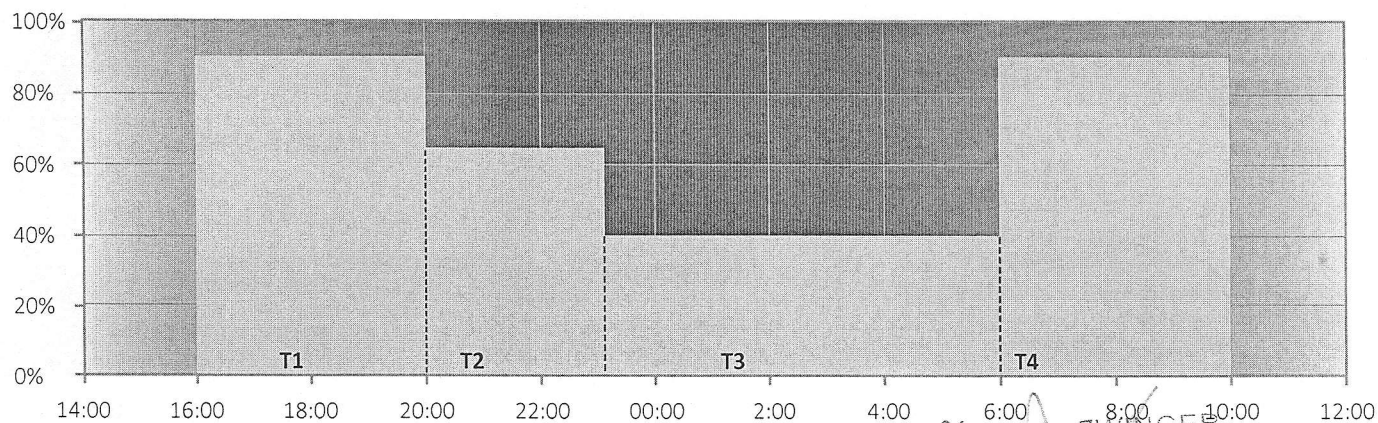


VIZULO STORK LITTLE BROTHER

Traffic Route; Residential Street/Area; Tunnel & Underpass;
City Centre; Architectural & Landscape; Sports Lighting;
Large Outdoor Industrial Area; Agricultural Area



Integrated Dynadim/Astrodim lighting control allows pre-programmed multi-level dimming. Lowering light levels during off-peak hours, gives considerable savings in energy costs.



Main technical data

Voltage, V	220-240																							
Frequency, Hz	50-60																							
Number of LED's	16			32			48			64			78			84			98			108		
Nominal current, mA	350	500	700	350	500	700	350	500	700	350	500	700	350	500	700	450	500	600	450	500	600	450	500	600
Power, W	18	27	37	37	51	68	53	75	102	69	98	137	84	119	166	81	112	153	107	150	200	152	168	200
Luminous Flux, Lm	1700	2550	3375	3900	5225	6650	5725	7750	10100	7600	10300	13500	9275	12550	15800	9660	13180	17210	12980	17410	21600	16350	17825	20850
Efficiency, Lm/W	94	94	91	105	102	98	108	103	99	110	105	99	110	105	99	119	117	112	121	116	108	108	106	104
Power factor, PF	0.79	0.85	0.91	0.91	0.94	0.97	0.91	0.94	0.96	0.92	0.93	0.93	0.92	0.93	0.93	0.91	0.95	0.97	0.93	0.95	0.93	0.90	0.91	0.93
Color temperature, K	3000/ 4000/ 5700																							
Working temperature, °C	-40° to +50°																							
CRI	Ra > 70, Ra > 80, Ra > 90 (optional)*																							
Protection class	IP66																							
Impact resistance class	IK09																							
Safety class	I and II																							
Intelligent light control system	Radio frequency / Power line																							
Body material	Die-cast aluminum																							
Dimming	1-10V, DALI, Dynadim																							
Surge protection, kV	3; 6; 10 (optional)**																							
Spigot, mm	Ø 40-60																							
Lifetime, h	100 000 h (L80B10C10)***																							
Guarantee, years	5																							
Netto weight, kg	11.7-13.4																							
Max.wind load area, SCd, m2	0.047																							

* Luminaries with color rendering index (CRI): Ra > 80, Ra > 90 are available according to customers special orders

*VIZULO reserves the right to use as standard 6 or 10kV surge protection device

***Lifetime of luminaire at $T_a=25^\circ\text{C}$

Main technical data

Voltage, V	220-240											
Frequency, Hz	50-60											
Number of LED's	16			32			48			64		
Nominal current, mA	350	500	700	350	500	700	350	500	700	350	500	700
Power, W	18	27	37	37	51	68	53	75	102	69	98	137
Luminous Flux, Lm	1700	2550	3375	3900	5225	6650	5725	7750	10100	7600	10300	13500
Efficiency, Lm/W	94	94	91	105	102	98	108	103	99	110	105	99
Power factor, PF	0.79	0.85	0.91	0.91	0.94	0.97	0.91	0.94	0.96	0.92	0.93	0.93
Color temperature, K	3000/ 4000/ 5700											
Working temperature °C	-40° to +45°											
CRI	Ra > 70, Ra > 80, Ra > 90 (optional)*											
Protection class	IP66											
Impact resistance class	IK09											
Safety class	I and II											
Intelligent light control system	Radio frequency / Power line											
Body material	Die-cast aluminum											
Dimming	1-10V, DALI, Dynadim											
Surge protection, kV	3; 6; 10 (optional)**											
Spigot, mm	Ø 40-60											
Lifetime, h	100 000 h (L80B10C10)***											
Guarantee, years	5											
Netto weight, kg	8.45-9.05											
Max.wind load area, SCd, m2	0.041											

* Luminaries with color rendering index (CRI): Ra > 80, Ra > 90 are available according to customers special orders

**VIZULO reserves the right to use as standard 6 or 10kV surge protection device

***Lifetime of luminaire at Ta=25 °C

TKO Marian ZWINGER

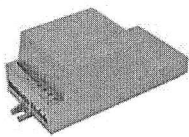
2015, 9 November, V4
data subjects to change

VIZULO STORK Street light accessories



Cabinet Controller

Cabinet Controller is designed for communicating implemented luminaires over the web application. Sends information about the current status of the street lights back and forth over a GSM connection, allows to control luminaires through web application.



Luminaire Controller

Dimming unit for luminaires. Designed for minimal energy consumption and long lifespan.

Luminaire on/off switching using NC contact relay

1...10V/DALI protocol for dimming LED driver 10...100 %

868 - 870 MHz licence-free radio frequency band

Self Healing Mesh Network

Luminaire Controller measures luminaire voltage, current and temperature – data visible on web application

On Central control unit failure works autonomously on last used lighting profile

Controller software upgradeable over web application remotely

Data transfer rate 100 kbit/s (O-QPSK modulation)

Internal or external antenna (SMA or U.FL connector)



Radio Frequency

Heavy duty IP67 enclosure

Cabinet or luminaire body mount with 14mm screw

SMA connector



Surge Protection device

Surge Protection device offers advanced protection against lighting surges.

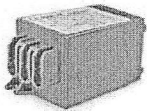
Voltage Protection level Up (L-N) ≤ 1.5 kV

Voltage Protection level Up (L/N-PE) ≤ 1.8 kV

Uoc = 10 kV

I max = 10 kA

I nom = 5 kA



Surge Protection device

Surge Protection device offers protection against lighting surges

Voltage Protection level Up (L-N) ≤ 1.6 kV

Voltage Protection level Up (L/N-PE) ≤ 2.5 kV

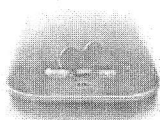
Uoc = 10 kV

I max = 10 kA

I nom = 5 kA

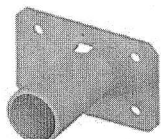


10 m cable with IP66 rated connector offers easy installation of the street luminaire.



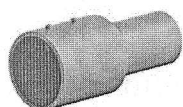
Quarter turn fastener

Allows to change PCB's electrical unit without tools.



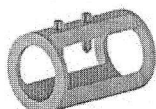
Wall mounting bracket

Spigot size 40 - 60 mm



Console adapter 60 mm to 76 mm

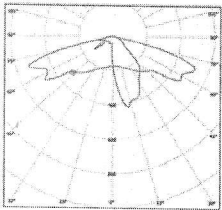
Spigot size 60 - 76 mm



Console adapter 60 mm to 40 mm

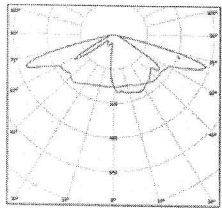
Spigot size 30 - 40 mm

EXTRA WIDE ASYMMETRIC - narrow streets and pedestrian roads



04

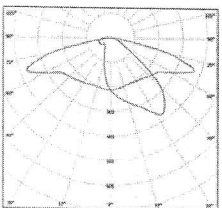
It is classified as IESNA type II, with a great mix of luminance and illuminance uniformity. It is also applicable to European S-standard pedestrian lighting.



05

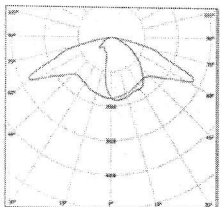
It is classified as IESNA type III, with a great mix of luminance and illuminance uniformity.

WIDE ASYMMETRIC - medium wide streets and roads



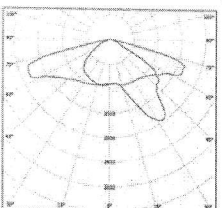
01

It is designed for European and Asian roads requiring good luminance performance. Special care has been taken in low glare (TI) and longitudinal uniformities flexibly for narrow to wide pole spacing installations. Asymmetric design removes the need of tilting the luminaire head. Typical ME4a installations are possible with the ratio of pole distance and height up to 5.5. Those optics are designed to fulfill ME-classes on a road whose width is equal to pole height or less. Suitable for multiline roads.



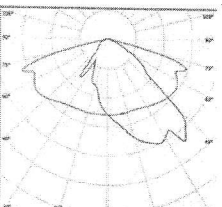
02

It is designed for roads with longer pole distances. It can be used in street lighting setups where the pole distance is up to six times larger than the pole height. It optics has an asymmetric design, which often negates the need for tilting the lamp head. Suitable for single line roads.



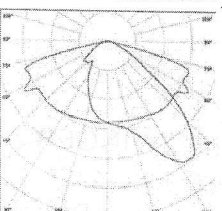
09

This multi-lens array can be used in the following application: Street Light- EN13201, Street Light- IESNA and any application in General Lighting & Wide Area Lighting.



17

Lens is designed for roads requiring good luminance performance for MEW lighting classes. It allows to use it on wider roads and higher poles. Asymmetric design removes the need of tilting the luminaire head.

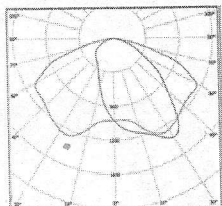


18

Lens is designed for roads requiring good luminance performance for MEW lighting classes. It is designed especially for staggered pole setups. Asymmetric design removes the need of tilting the luminaire head. Asymmetric design removes the need of tilting the luminaire head.

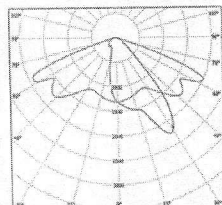
Marian ZWINGER

WIDE ASYMMETRIC FRONT - wide streets and roads



03

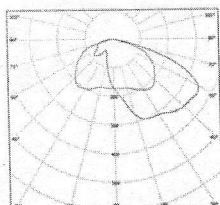
It is designed for roads where the pole height and the roadway width are similar. It optics have an asymmetric design, which often negates the need for tilting the lamp head.



06

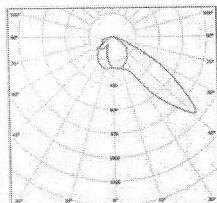
It is designed to work on roads that are narrower than the height of the pole and when the spacing is four times the height of the pole. It has an asymmetric design so it can be used without tilting the lamp head.

ASYMMETRIC FRONT - wide streets and roads and asymmetrical floodlighting



07

Forward throwing lens type is classified as IESNA type IV, being best suited for wider roads. It is also an excellent choice for wide area lighting, for example for parking lots and yards.

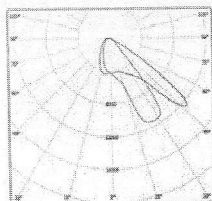


08

It is an array of asymmetric lenses with a long forward throw beam and good cut-off. Excellent choice for wide territories and areas.

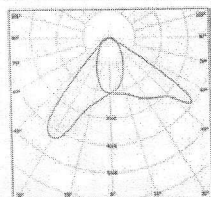
STORK HIGH POWER (78-108 LED) MODELS ARE AVAILABLE ONLY WITH 01, 02 AND 03 OPTIC TYPES.

PEDESTRIAN CROSSINGS



11

Right side pedestrian crossing optics.

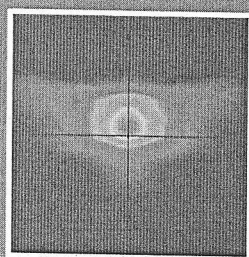


12

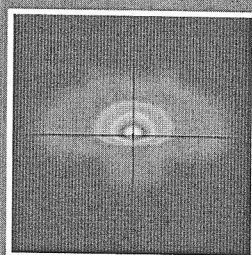
Left side pedestrian crossing optics.

ELEKTRO Marian ZWINGER

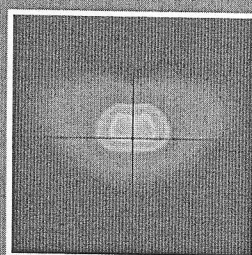
LED street luminaires with specific asymmetrical optics will attract the attention of the driver in direction of pedestrian crossing without causing a glare effect. Thus dark silhouette of humans will make contrast to very bright surface of the pedestrian crossing. For more detailed questions regarding VIZULO STORK for pedestrian crossings please contact VIZULO support team.



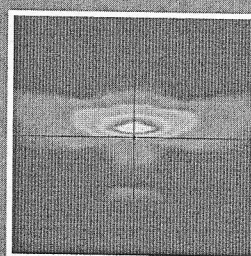
01



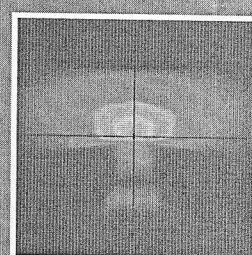
02



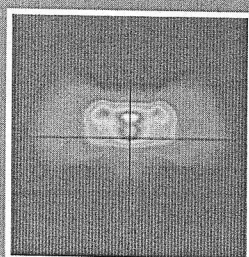
03



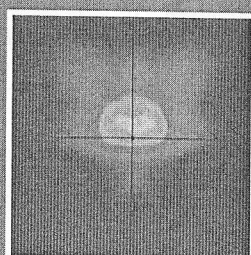
04



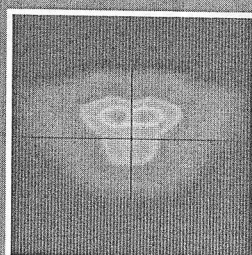
05



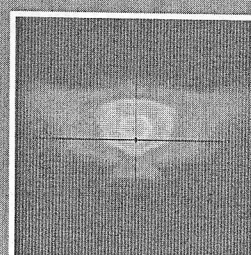
06



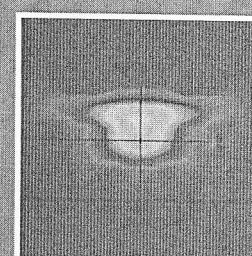
07



09



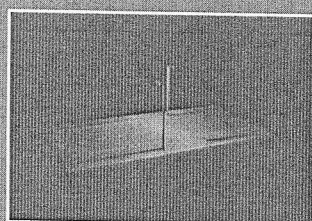
17



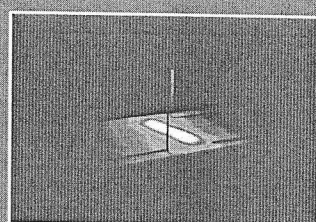
18

Pedestrian crossing optics

Single line double direction road

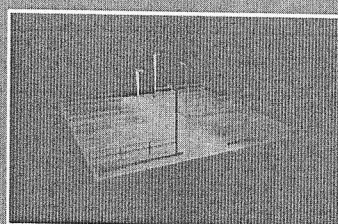


12

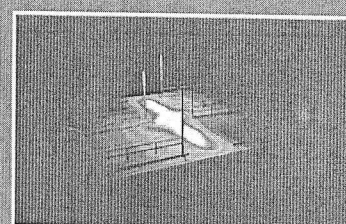


12

Several line double direction road with median line

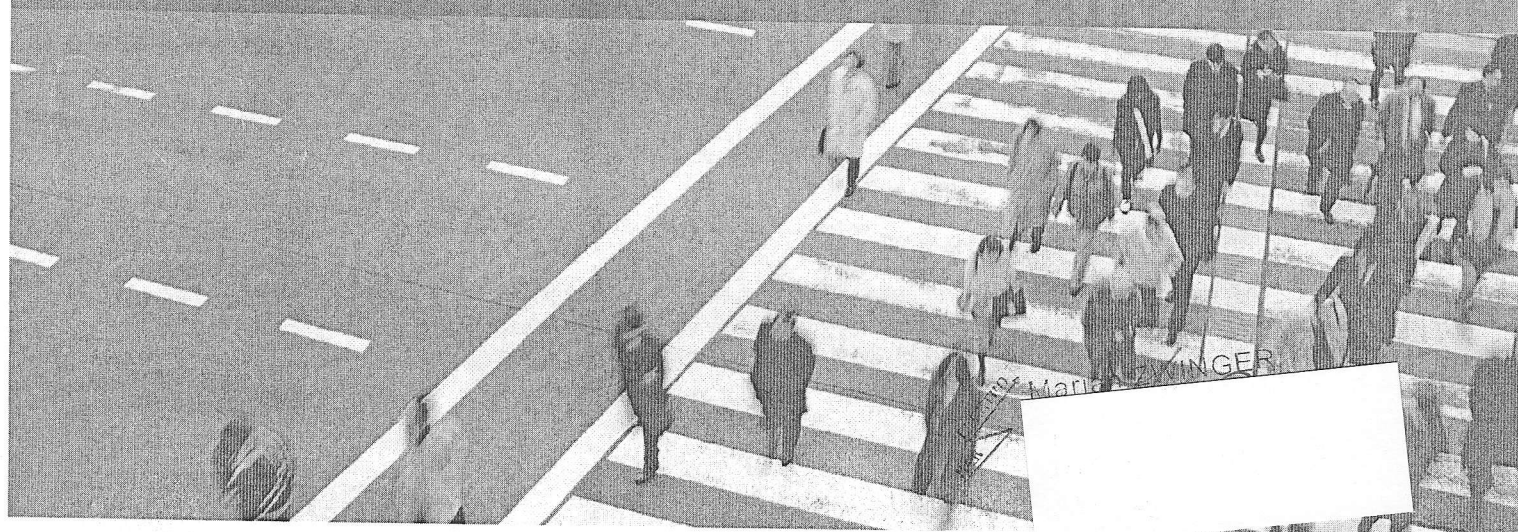


11 & 12

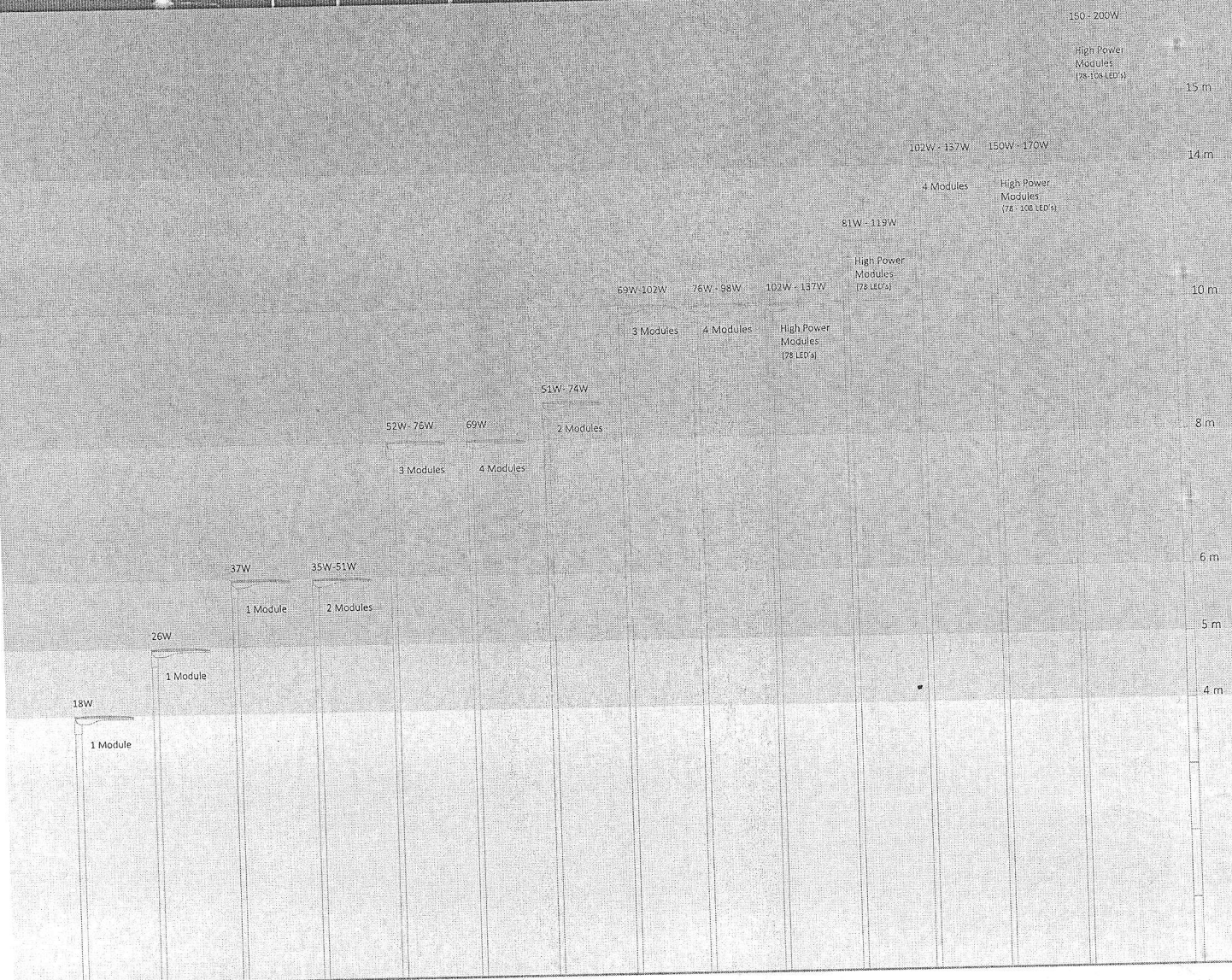


11 & 12

100.00 lx 87.50 lx 75.00 lx 62.50 lx 50.00 lx 37.50 lx 25.00 lx 12.50 lx



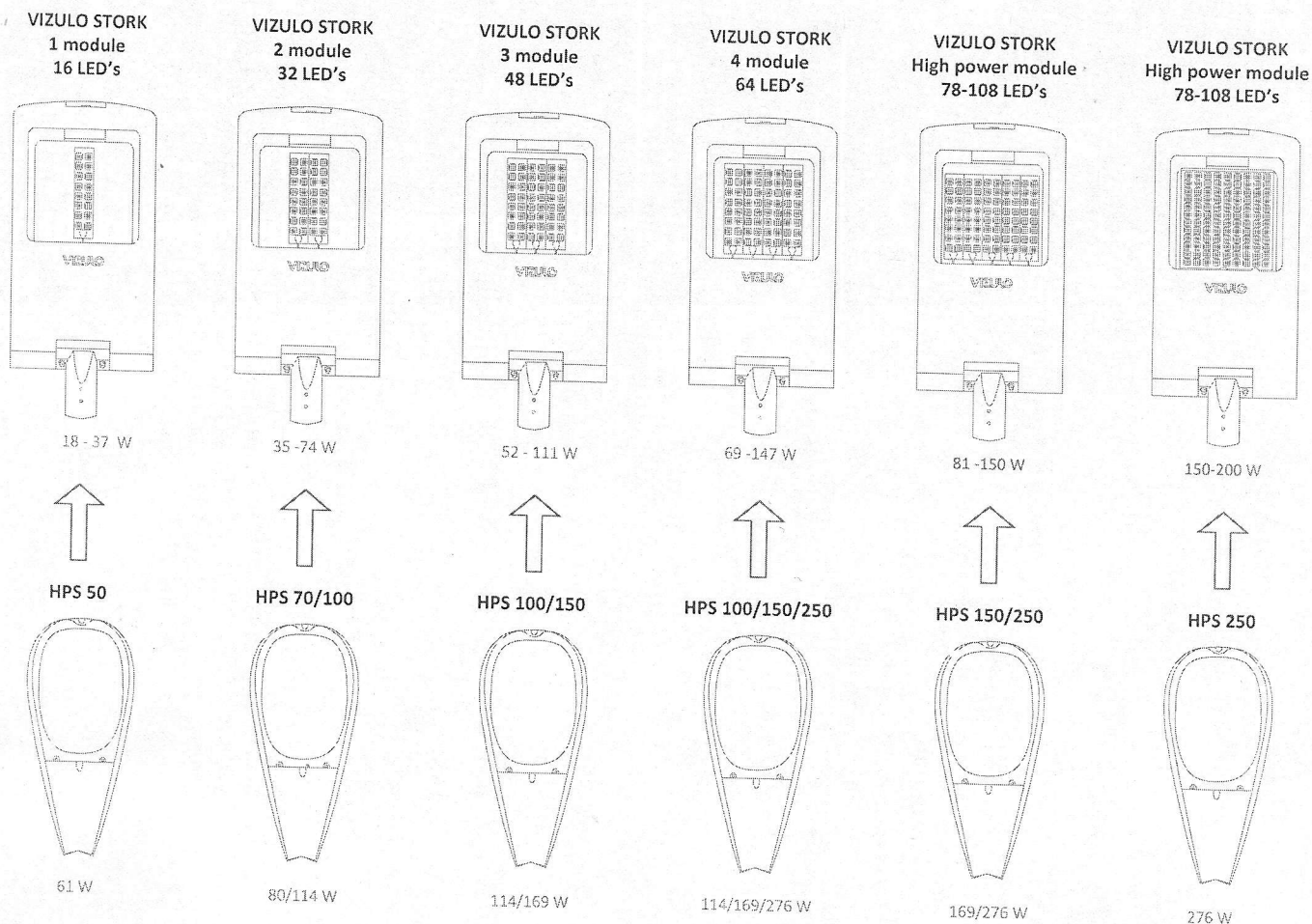
VIZULO STORK pole high proposition



1 Module	16 LED's	4 - 6 m
2 Module	32 LED's	6 - 9 m
3 Module	48 LED's	8 - 11 m
4 Module	64 LED's	8 - 14 m
High Power modules (78 - 108 LED's)		12 - 14 m

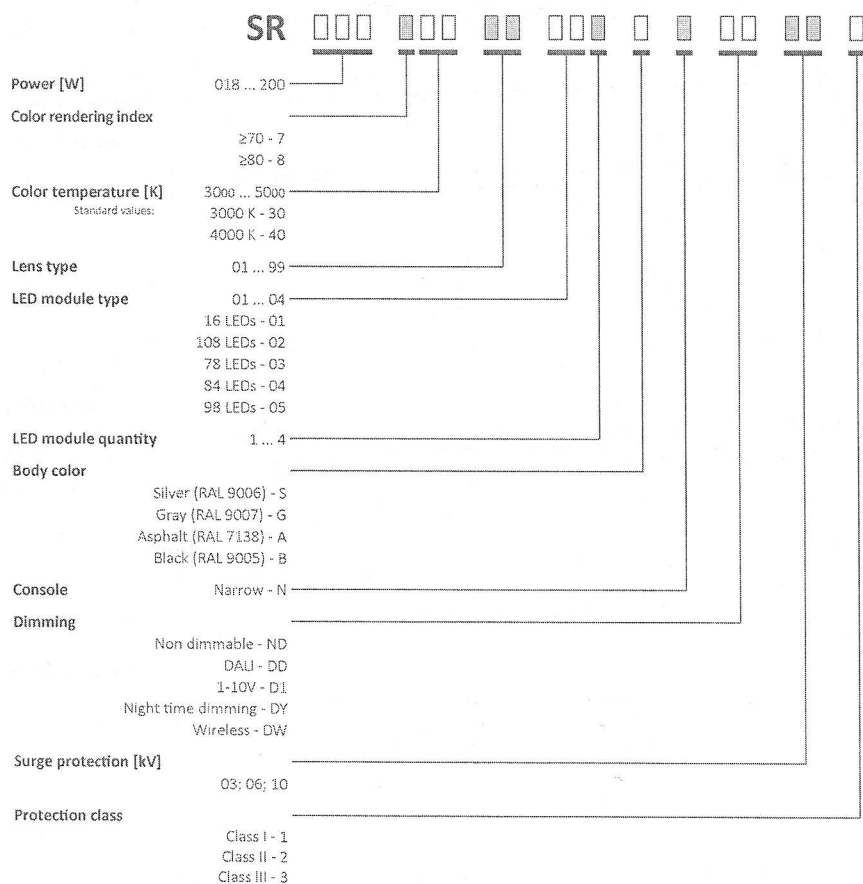
KITRO Marian ZWINGER

VIZULO STORK energy saving: Change from conventional lighting to LED luminaire

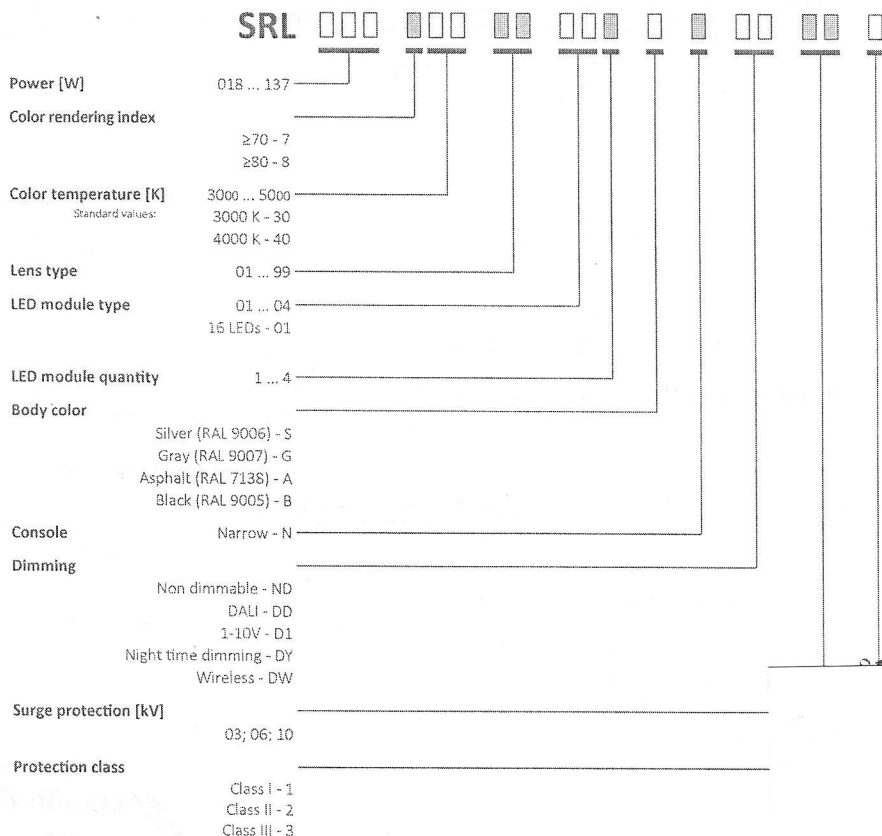


Marián ZWINGER

VIZULO STORK Model name principles



VIZULO STORK LITTLE BROTHER Model name principles



VIZULO STORK - 16 LEDs (1 module)

Model No.	Power, W	Color temperature, K	Luminous Flux*, Lm	Efficiency, lm/W	Optic	Body color	Dimming option
SR 018 740 01 011 S N DD 06 1	18 W	4000 K	1782 lm	94 lm/W	01	Silver	DALI
SR 018 740 02 011 S N DD 06 1	18 W	4000 K	1722 lm	96 lm/W	02	Silver	DALI
SR 018 740 03 011 S N DD 06 1	18 W	4000 K	1653 lm	92 lm/W	03	Silver	DALI
SR 027 740 01 011 S N DD 06 1	27 W	4000 K	2600 lm	96 lm/W	01	Silver	DALI
SR 027 740 02 011 S N DD 06 1	27 W	4000 K	2599 lm	96 lm/W	02	Silver	DALI
SR 027 740 03 011 S N DD 06 1	27 W	4000 K	2492 lm	92 lm/W	03	Silver	DALI
SR 037 740 01 011 S N DD 06 1	37 W	4000 K	3423 lm	93 lm/W	01	Silver	DALI
SR 037 740 02 011 S N DD 06 1	37 W	4000 K	3431 lm	93 lm/W	02	Silver	DALI
SR 037 740 03 011 S N DD 06 1	37 W	4000 K	3301 lm	89 lm/W	03	Silver	DALI

VIZULO STORK - 32 LEDs (2 modules)

Model No.	Power, W	Color temperature, K	Luminous Flux*, Lm	Efficiency, lm/W	Optic	Body color	Dimming option
SR 037 740 01 012 S N DD 06 1	37 W	4000 K	4052 lm	109 lm/W	01	Silver	DALI
SR 037 740 02 012 S N DD 06 1	37 W	4000 K	4007 lm	108 lm/W	02	Silver	DALI
SR 037 740 03 012 S N DD 06 1	37 W	4000 K	3888 lm	105 lm/W	03	Silver	DALI
SR 051 740 01 012 S N DD 06 1	51 W	4000 K	5416 lm	106 lm/W	01	Silver	DALI
SR 051 740 02 012 S N DD 06 1	51 W	4000 K	5442 lm	107 lm/W	02	Silver	DALI
SR 051 740 03 012 S N DD 06 1	51 W	4000 K	5226 lm	102 lm/W	03	Silver	DALI
SR 068 740 01 012 S N DD 06 1	68 W	4000 K	6886 lm	101 lm/W	01	Silver	DALI
SR 068 740 02 012 S N DD 06 1	68 W	4000 K	6825 lm	102 lm/W	02	Silver	DALI
SR 068 740 03 012 S N DD 06 1	68 W	4000 K	6679 lm	98 lm/W	03	Silver	DALI

VIZULO STORK - 48 LEDs (3 modules)

Model No.	Power, W	Color temperature, K	Luminous Flux*, Lm	Efficiency, lm/W	Optic	Body color	Dimming option
SR 053 740 01 013 S N DD 06 1	53 W	4000 K	5925 lm	112 lm/W	01	Silver	DALI
SR 053 740 02 013 S N DD 06 1	53 W	4000 K	5925 lm	115 lm/W	02	Silver	DALI
SR 053 740 03 013 S N DD 06 1	53 W	4000 K	5728 lm	111 lm/W	03	Silver	DALI
SR 075 740 01 013 S N DD 06 1	75 W	4000 K	8025 lm	110 lm/W	01	Silver	DALI
SR 075 740 02 013 S N DD 06 1	75 W	4000 K	8025 lm	111 lm/W	02	Silver	DALI
SR 075 740 03 013 S N DD 06 1	75 W	4000 K	7750 lm	107 lm/W	03	Silver	DALI
SR 102 740 01 013 S N DD 06 1	102 W	4000 K	10900 lm	104 lm/W	01	Silver	DALI
SR 102 740 02 013 S N DD 06 1	102 W	4000 K	10920 lm	104 lm/W	02	Silver	DALI
SR 102 740 03 013 S N DD 06 1	102 W	4000 K	10100 lm	101 lm/W	03	Silver	DALI

VIZULO STORK - 64 LEDs (4 modules)

Model No.	Power, W	Color temperature, K	Luminous Flux*, Lm	Efficiency, lm/W	Optic	Body color	Dimming option
SR 069 740 01 014 S N DD 06 1	69 W	4000 K	7772 lm	112 lm/W	01	Silver	DALI
SR 069 740 02 014 S N DD 06 1	69 W	4000 K	7708 lm	112 lm/W	02	Silver	DALI
SR 069 740 03 014 S N DD 06 1	69 W	4000 K	7571 lm	110 lm/W	03	Silver	DALI
SR 098 740 01 014 S N DD 06 1	98 W	4000 K	10497 lm	107 lm/W	01	Silver	DALI
SR 098 740 02 014 S N DD 06 1	98 W	4000 K	10491 lm	107 lm/W	02	Silver	DALI
SR 098 740 03 014 S N DD 06 1	98 W	4000 K	10346 lm	106 lm/W	03	Silver	DALI
SR 137 740 01 014 S N DD 06 1	137 W	4000 K	13701 lm	100 lm/W	01	Silver	DALI
SR 137 740 02 014 S N DD 06 1	137 W	4000 K	14107 lm	103 lm/W	02	Silver	DALI
SR 137 740 03 014 S N DD 06 1	137 W	4000 K	13609 lm	99 lm/W	03	Silver	DALI

VIZULO STORK - 78 LEDs (1 high power module)

Model No.	Power, W	Color temperature, K	Luminous Flux*, Lm	Efficiency, lm/W	Optic	Body color	Dimming option
SR 084 740 01 031 S N DD 03 1	84 W	4000 K	9549 lm	114 lm/W	01	Silver	DALI
SR 084 740 02 031 S N DD 03 1	84 W	4000 K	9598 lm	114 lm/W	02	Silver	DALI
SR 120 740 01 031 S N DD 03 1	119 W	4000 K	12848 lm	108 lm/W	01	Silver	DALI
SR 120 740 02 031 S N DD 03 1	119 W	4000 K	12636 lm	108 lm/W	02	Silver	DALI
SR 160 740 01 031 S N DD 03 1	166 W	4000 K	16498 lm	99 lm/W	01	Silver	DALI
SR 160 740 02 031 S N DD 03 1	166 W	4000 K	16558 lm	100 lm/W	02	Silver	DALI

VIZULO STORK - 84 LEDs (1 high power module)

Model No.	Power, W	Color temperature, K	Luminous Flux*, Lm	Efficiency, lm/W	Optic	Body color	Dimming option
SR 081 740 01 041 S N DD 06 1	81 W	4000 K	9660 lm	119 lm/W	01	Silver	DALI
SR 081 740 02 041 S N DD 06 1	81 W	4000 K	9504 lm	117 lm/W	02	Silver	DALI
SR 081 740 03 041 S N DD 06 1	81 W	4000 K	9791 lm	121 lm/W	03	Silver	DALI
SR 112 740 01 041 S N DD 06 1	112 W	4000 K	13193 lm	118 lm/W	01	Silver	DALI
SR 112 740 02 041 S N DD 06 1	112 W	4000 K	12900 lm	115 lm/W	02	Silver	DALI
SR 112 740 03 041 S N DD 06 1	112 W	4000 K	13259 lm	119 lm/W	03	Silver	DALI
SR 153 740 01 041 S N DD 06 1	153 W	4000 K	17216 lm	112 lm/W	01	Silver	DALI
SR 153 740 02 041 S N DD 06 1	153 W	4000 K	16880 lm	110 lm/W	02	Silver	DALI
SR 153 740 03 041 S N DD 06 1	153 W	4000 K	17423 lm	114 lm/W	03	Silver	DALI

VIZULO STORK - 98 LEDs (1 high power module)

Model No.	Power, W	Color temperature, K	Luminous Flux*, Lm	Efficiency, lm/W	Optic	Body color	Dimming option
SR 107 740 01 051 S N DD 03 1	107 W	4000 K	12332 lm	121 lm/W	01	Silver	DALI
SR 107 740 02 051 S N DD 03 1	107 W	4000 K	12062 lm	122 lm/W	02	Silver	DALI
SR 107 740 03 051 S N DD 03 1	107 W	4000 K	13190 lm	123 lm/W	03	Silver	DALI
SR 150 740 01 051 S N DD 03 1	150 W	4000 K	17412 lm	116 lm/W	01	Silver	DALI
SR 150 740 02 051 S N DD 03 1	150 W	4000 K	17547 lm	117 lm/W	02	Silver	DALI
SR 150 740 03 051 S N DD 03 1	150 W	4000 K	17715 lm	118 lm/W	03	Silver	DALI
SR 200 740 01 051 S N DD 03 1	200 W	4000 K	21890 lm	109 lm/W	01	Silver	DALI
SR 200 740 02 051 S N DD 03 1	200 W	4000 K	22059 lm	110 lm/W	02	Silver	DALI
SR 200 740 03 051 S N DD 03 1	200 W	4000 K	22286 lm	111 lm/W	03	Silver	DALI

*Luminous Flux and Efficiency calculated for lamp including driver and diffuser losses, at Ta 25° C

VIZULO STORK - 108 LEDs (1 high power module)

Model No.	Power, W	Color temperature, K	Luminous Flux*, Lm	Efficiency, lm/W	Optic	Body color	Dimming option
SR 152 740 02 021 S N DD 03 1	152 W	4000 K	16350 lm	108 lm/W	02	Silver	DALI
SR 152 740 03 021 S N DD 03 1	152 W	4000 K	15750 lm	104 lm/W	03	Silver	DALI
SR 168 740 02 021 S N DD 03 1	168 W	4000 K	17825 lm	106 lm/W	02	Silver	DALI
SR 168 740 03 021 S N DD 03 1	168 W	4000 K	17175 lm	102 lm/W	03	Silver	DALI
SR 200 740 02 021 S N DD 03 1	200 W	4000 K	20850 lm	104 lm/W	02	Silver	DALI
SR 200 740 03 021 S N DD 03 1	200 W	4000 K	20100 lm	101 lm/W	03	Silver	DALI

VIZULO STORK pedestrian crossing luminaires

Model No.	Power, W	Color temperature, K	Luminous Flux*, Lm	Efficiency, lm/W	Optic	Body color	Dimming option
SR 059 740 11 013 S N DD 03 1	53 W	4000 K	5866 lm	111 lm/W	11	Silver	DALI
SR 053 740 12 013 S N DD 03 1	53 W	4000 K	5912 lm	111 lm/W	12	Silver	DALI
SR 059 757 11 013 S N DD 03 1	53 W	5700 K	6068 lm	115 lm/W	11	Silver	DALI
SR 053 757 12 013 S N DD 03 1	53 W	5700 K	6069 lm	115 lm/W	12	Silver	DALI
SR 068 740 11 012 S N DD 03 1	68 W	4000 K	6931 lm	102 lm/W	11	Silver	DALI
SR 068 740 12 012 S N DD 03 1	68 W	4000 K	6963 lm	102 lm/W	12	Silver	DALI
SR 068 757 11 012 S N DD 03 1	68 W	5700 K	7063 lm	104 lm/W	11	Silver	DALI
SR 068 757 12 012 S N DD 03 1	68 W	5700 K	7115 lm	105 lm/W	12	Silver	DALI
SR 069 740 11 014 S N DD 03 1	69 W	4000 K	7676 lm	111 lm/W	11	Silver	DALI
SR 069 740 12 014 S N DD 03 1	69 W	4000 K	7925 lm	115 lm/W	12	Silver	DALI
SR 069 757 11 014 S N DD 03 1	69 W	5700 K	8148 lm	118 lm/W	11	Silver	DALI
SR 069 757 12 014 S N DD 03 1	69 W	5700 K	8165 lm	118 lm/W	12	Silver	DALI
SR 075 740 11 013 S N DD 03 1	75 W	4000 K	8075 lm	108 lm/W	11	Silver	DALI
SR 075 740 12 013 S N DD 03 1	75 W	4000 K	8106 lm	108 lm/W	12	Silver	DALI
SR 075 757 11 013 S N DD 03 1	75 W	5700 K	8295 lm	111 lm/W	11	Silver	DALI
SR 075 757 12 013 S N DD 03 1	75 W	5700 K	8315 lm	111 lm/W	12	Silver	DALI
SR 098 740 11 014 S N DD 03 1	98 W	4000 K	10759 lm	110 lm/W	11	Silver	DALI
SR 098 740 12 014 S N DD 03 1	98 W	4000 K	10829 lm	111 lm/W	12	Silver	DALI
SR 098 757 11 014 S N DD 03 1	98 W	5700 K	11067 lm	113 lm/W	11	Silver	DALI
SR 098 757 12 014 S N DD 03 1	98 W	5700 K	11096 lm	113 lm/W	12	Silver	DALI
SR 102 740 11 013 S N DD 03 1	102 W	4000 K	10446 lm	102 lm/W	11	Silver	DALI
SR 102 740 12 013 S N DD 03 1	102 W	4000 K	10487 lm	103 lm/W	12	Silver	DALI
SR 102 757 11 013 S N DD 03 1	102 W	5700 K	10651 lm	104 lm/W	11	Silver	DALI
SR 102 757 12 013 S N DD 03 1	102 W	5700 K	10661 lm	105 lm/W	12	Silver	DALI
SR 137 740 11 014 S N DD 03 1	137 W	4000 K	14121 lm	103 lm/W	11	Silver	DALI
SR 137 740 12 014 S N DD 03 1	137 W	4000 K	14210 lm	104 lm/W	12	Silver	DALI
SR 137 757 11 014 S N DD 03 1	137 W	5700 K	14396 lm	105 lm/W	11	Silver	DALI
SR 137 757 12 014 S N DD 03 1	137 W	5700 K	14430 lm	105 lm/W	12	Silver	DALI

VIZULO STORK LITTLE BROTHER - 16 LEDs (1 module)

Model No.	Power, W	Color temperature, K	Luminous Flux*, Lm	Efficiency, lm/W	Optic	Body color	Dimming option
SRL 018 740 01 011 S N DD 06 1	18 W	4000 K	1732 lm	96 lm/W	01	Silver	DALI
SRL 018 740 02 011 S N DD 06 1	18 W	4000 K	1722 lm	96 lm/W	02	Silver	DALI
SRL 018 740 03 011 S N DD 06 1	18 W	4000 K	1693 lm	93 lm/W	03	Silver	DALI
SRL 027 740 01 011 S N DD 06 1	27 W	4000 K	2600 lm	96 lm/W	01	Silver	DALI
SRL 027 740 02 011 S N DD 06 1	27 W	4000 K	2599 lm	96 lm/W	02	Silver	DALI
SRL 027 740 03 011 S N DD 06 1	27 W	4000 K	2492 lm	92 lm/W	03	Silver	DALI
SRL 037 740 01 011 S N DD 06 1	37 W	4000 K	3432 lm	93 lm/W	01	Silver	DALI
SRL 037 740 02 011 S N DD 06 1	37 W	4000 K	3431 lm	93 lm/W	02	Silver	DALI
SRL 037 740 03 011 S N DD 06 1	37 W	4000 K	3301 lm	89 lm/W	03	Silver	DALI

VIZULO STORK LITTLE BROTHER - 32 LEDs (2 modules)

Model No.	Power, W	Color temperature, K	Luminous Flux*, Lm	Efficiency, lm/W	Optic	Body color	Dimming option
SRL 037 740 01 012 S N DD 06 1	37 W	4000 K	4032 lm	109 lm/W	01	Silver	DALI
SRL 037 740 02 012 S N DD 06 1	37 W	4000 K	4007 lm	108 lm/W	02	Silver	DALI
SRL 037 740 03 012 S N DD 06 1	37 W	4000 K	3888 lm	105 lm/W	03	Silver	DALI
SRL 051 740 01 012 S N DD 06 1	51 W	4000 K	5416 lm	106 lm/W	01	Silver	DALI
SRL 051 740 02 012 S N DD 06 1	51 W	4000 K	5442 lm	107 lm/W	02	Silver	DALI
SRL 051 740 03 012 S N DD 06 1	51 W	4000 K	5226 lm	102 lm/W	03	Silver	DALI
SRL 068 740 01 012 S N DD 06 1	68 W	4000 K	6985 lm	103 lm/W	01	Silver	DALI
SRL 068 740 02 012 S N DD 06 1	68 W	4000 K	6925 lm	102 lm/W	02	Silver	DALI
SRL 068 740 03 012 S N DD 06 1	68 W	4000 K	6679 lm	98 lm/W	03	Silver	DALI

VIZULO STORK LITTLE BROTHER - 48 LEDs (3 modules)

Model No.	Power, W	Color temperature, K	Luminous Flux*, Lm	Efficiency, lm/W	Optic	Body color	Dimming option
SRL 053 740 01 013 S N DD 06 1	53 W	4000 K	5825 lm	113 lm/W	01	Silver	DALI
SRL 053 740 02 013 S N DD 06 1	53 W	4000 K	5925 lm	115 lm/W	02	Silver	DALI
SRL 053 740 03 013 S N DD 06 1	53 W	4000 K	5725 lm	111 lm/W	03	Silver	DALI
SRL 075 740 01 013 S N DD 06 1	75 W	4000 K	8025 lm	110 lm/W	01	Silver	DALI
SRL 075 740 02 013 S N DD 06 1	75 W	4000 K	8025 lm	111 lm/W	02	Silver	DALI
SRL 075 740 03 013 S N DD 06 1	75 W	4000 K	7750 lm	107 lm/W	03	Silver	DALI
SRL 102 740 01 013 S N DD 06 1	102 W	4000 K	10300 lm	104 lm/W	01	Silver	DALI
SRL 102 740 02 013 S N DD 06 1	102 W	4000 K	10300 lm	104 lm/W	02	Silver	DALI
SRL 102 740 03 013 S N DD 06 1	102 W	4000 K	10100 lm	101 lm/W	03	Silver	DALI

VIZULO STORK LITTLE BROTHER - 64 LEDs (4 modules)

Model No.	Power, W	Color temperature, K	Luminous Flux*, Lm	Efficiency, lm/W	Optic	Body color	Dimming option
SR 069 740 01 01 4 S N DD 03 1	69 W	4000 K	7722 lm	112 lm/W	01	Silver	DALI
SR 069 740 02 01 4 S N DD 03 1	69 W	4000 K	7709 lm	112 lm/W	02	Silver	DALI
SR 069 740 03 01 4 S N DD 03 1	69 W	4000 K	7571 lm	110 lm/W	03	Silver	DALI
SR 098 740 01 01 4 S N DD 03 1	98 W	4000 K	10497 lm	107 lm/W	01	Silver	DALI
SR 098 740 02 01 4 S N DD 03 1	98 W	4000 K	10491 lm	107 lm/W	02	Silver	DALI
SR 098 740 03 01 4 S N DD 03 1	98 W	4000 K	10246 lm	105 lm/W	03	Silver	DALI
SR 137 740 01 01 4 S N DD 03 1	137 W	4000 K	13701 lm	100 lm/W	01	Silver	DALI
SR 137 740 02 01 4 S N DD 03 1	137 W	4000 K	14107 lm	103 lm/W	02	Silver	DALI
SR 137 740 03 01 4 S N DD 03 1	137 W	4000 K	13609 lm	99 lm/W	03	Silver	DALI

*Luminous Flux and Efficiency calculated for lamp including driver and diffuser losses, at Ta 25° C

VIZULO STORK LITTLE BROTHER pedestrian crossing luminaires

Model No.	Power, W	Color temperature, K	Luminous Flux*, Lm	Efficiency, lm/W	Optic	Body color	Dimming option
SRL 053 740 11 01 3 S N DD 03 1	53 W	4000 K	5806 lm	111 lm/W	11	Silver	DALI
SRL 053 740 12 01 3 S N DD 03 1	53 W	4000 K	5912 lm	111 lm/W	12	Silver	DALI
SRL 053 757 11 01 3 S N DD 03 1	53 W	5700 K	6066 lm	115 lm/W	11	Silver	DALI
SRL 053 757 12 01 3 S N DD 03 1	53 W	5700 K	6099 lm	115 lm/W	12	Silver	DALI
SRL 068 740 11 01 2 S N DD 03 1	68 W	4000 K	6831 lm	107 lm/W	11	Silver	DALI
SRL 068 740 12 01 2 S N DD 03 1	68 W	4000 K	6863 lm	107 lm/W	12	Silver	DALI
SRL 068 757 11 01 2 S N DD 03 1	68 W	5700 K	7083 lm	104 lm/W	11	Silver	DALI
SRL 068 757 12 01 2 S N DD 03 1	68 W	5700 K	7115 lm	105 lm/W	12	Silver	DALI
SRL 069 740 11 01 4 S N DD 03 1	69 W	4000 K	7876 lm	114 lm/W	11	Silver	DALI
SRL 069 740 12 01 4 S N DD 03 1	69 W	4000 K	7925 lm	115 lm/W	12	Silver	DALI
SRL 069 757 11 01 4 S N DD 03 1	69 W	5700 K	8148 lm	118 lm/W	11	Silver	DALI
SRL 069 757 12 01 4 S N DD 03 1	69 W	5700 K	8165 lm	118 lm/W	12	Silver	DALI
SRL 075 740 11 01 3 S N DD 03 1	75 W	4000 K	8075 lm	108 lm/W	11	Silver	DALI
SRL 075 740 12 01 3 S N DD 03 1	75 W	4000 K	8106 lm	108 lm/W	12	Silver	DALI
SRL 075 757 11 01 3 S N DD 03 1	75 W	5700 K	8295 lm	111 lm/W	11	Silver	DALI
SRL 075 757 12 01 3 S N DD 03 1	75 W	5700 K	8315 lm	111 lm/W	12	Silver	DALI
SRL 098 740 11 01 4 S N DD 03 1	98 W	4000 K	10759 lm	110 lm/W	11	Silver	DALI
SRL 098 740 12 01 4 S N DD 03 1	98 W	4000 K	10829 lm	111 lm/W	12	Silver	DALI
SRL 098 757 11 01 4 S N DD 03 1	98 W	5700 K	11067 lm	113 lm/W	11	Silver	DALI
SRL 098 757 12 01 4 S N DD 03 1	98 W	5700 K	11086 lm	113 lm/W	12	Silver	DALI
SRL 102 740 11 01 3 S N DD 03 1	102 W	4000 K	10446 lm	102 lm/W	11	Silver	DALI
SRL 102 740 12 01 3 S N DD 03 1	102 W	4000 K	10487 lm	103 lm/W	12	Silver	DALI
SRL 102 757 11 01 3 S N DD 03 1	102 W	5700 K	10681 lm	104 lm/W	11	Silver	DALI
SRL 102 757 12 01 3 S N DD 03 1	102 W	5700 K	10691 lm	105 lm/W	12	Silver	DALI
SRL 137 740 11 01 4 S N DD 03 1	137 W	4000 K	14121 lm	103 lm/W	11	Silver	DALI
SRL 137 740 12 01 4 S N DD 03 1	137 W	4000 K	14220 lm	104 lm/W	12	Silver	DALI
SRL 137 757 11 01 4 S N DD 03 1	137 W	5700 K	14396 lm	105 lm/W	11	Silver	DALI
SRL 137 757 12 01 4 S N DD 03 1	137 W	5700 K	14430 lm	105 lm/W	12	Silver	DALI

* Luminous Flux and Efficiency calculated for lamp including driver and diffuser losses, at T_a 25° C

VIZULO STORK

Average Netto Weight
Vidējais Neto Svars
Средний Нетто Вес

SR □□□ □□□ □□ 011 □ N □□ □□ □	11.7 kg
SR □□□ □□□ □□ 012 □ N □□ □□ □	11.8 kg
SR □□□ □□□ □□ 013 □ N □□ □□ □	11.9 kg
SR □□□ □□□ □□ 014 □ N □□ □□ □	12.0 kg
SR □□□ □□□ □□ 031 □ N □□ □□ □	12.5 kg
SR □□□ □□□ □□ 041 □ N □□ □□ □	12.8 kg
SR □□□ □□□ □□ 051 □ N □□ □□ □	13.2 kg
SR □□□ □□□ □□ 021 □ N □□ □□ □	13.4 kg

VIZULO STORK LITTLE BROTHER

Average Netto Weight
Vidējais Neto Svars
Средний Нетто Вес

SRL □□□ □□□ □□ 011 □ N □□ □□ □	8.45 kg
SRL □□□ □□□ □□ 012 □ N □□ □□ □	8.55 kg
SRL □□□ □□□ □□ 013 □ N □□ □□ □	8.75 kg
SRL □□□ □□□ □□ 014 □ N □□ □□ □	9.05 kg

WSt/B SLS VBS Výložník na betónový stĺp

Informácie:

Použitie

Na upevnenie osvetľovacích telies na predpäté betónové stĺžiare.

Materiál

Oceľ žiarovo zinkovaná ponorom podľa EN ISO 1461:2011.

Upozornenie

V tabuľke verzií nájdete iba základné typy výložníkov typu WSt/B a to s nasledovnými parametrami:

1. Uhol výložníka voči horizontálnej rovine 5-10°.
2. Priemer koncovky d výložníka pre upevnenie svetidla 60 mm.

Výložník je zložený z: 1-2x objímka z PLo 50x8 + U profil
UE80x400 mm + trubka 60,3x2



Verzie:

Symbol	Kat. číslo	W [m]	Počet ramien	Materiál
WSt/B/0,5 SLS VBS1	1113310309	0.5	1	ocel'
WSt/B/0,5 SLS VBS2	1113310310	0.5	1	ocel'
WSt/B/0,5 SLS VBS3	1113310311	0.5	1	ocel'
WSt/B/1,0 SLS VBS1	1113310312	1	1	ocel'
WSt/B/1,0 SLS VBS2	1113310315	1	1	ocel'
WSt/B/1,0 SLS VBS3	1113310318	1	1	ocel'
WSt/B/1,5 SLS VBS1	1113310313	1.5	1	ocel'
WSt/B/1,5 SLS VBS2	1113310316	1.5	1	ocel'
WSt/B/1,5 SLS VBS3	1113310319	1.5	1	ocel'
WSt/B/2,0 SLS VBS1	1113310314	2	1	ocel'
WSt/B/2,0 SLS VBS2	1113310317	2	1	ocel'
WSt/B/2,0 SLS VBS2	1113310320	2	1	ocel'

PHILIPS

Marián Zwinger – Elektro-Bak
Jégého 220/17
Bratislava
821 08

Vec: Vyjadrenie k dodacím termínom

Dátum: 2015-12-21

Vážený obchodný partner,

podľa posledných zistení z výrobného závodu Vám potvrdzujem, že dodací termín pre nižšie uvedené svietidlá MiniLuma je 7-8 týždňov od dátumu objednania.

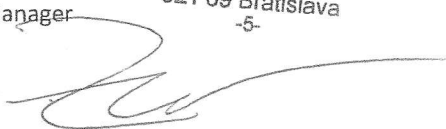
Typ svietidla:

MINILUMA, XIP, ConstaFlux, R4, 38W, 4090lm

MINILUMA, XIP, ConstaFlux, BGP621, 40LED, R5

S pozdravom,
Ing. Juraj Zaťko
Key Account Manager

Philips Slovakia s.r.o.
Prievozská 4/A
821 09 Bratislava
-5-



ELEKTRO Marian ZWINGER

Philips Slovakia s.r.o.

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