DATENBLATT

SpektraLED
MEHR LICHT FÜR WENIGER ENERGIE

06/2024

ESTA LED

Ball proof test

... Leuchte zur Beleuchtung von Verkehrswegen.

GEBRAUCH

Die Leuchte ist geeignet für Verkehrswege, Wohngebiete, Parkplätze und Außenbereiche.
Die Leuchte ist gegen Staub, Feuchtigkeit und Strahlwasser beständig.

VORTEILE

- Schutzart der Leuchte **IP66**
- Maximale Umgebungstemperatur **ta = -40°C bis ta = 45°C**
- Lebensdauer: 100 000 Stunden / L90B20
  oder 50 000 Stunden / L90B10 bei ta = 45 °C
- Gehäuse: graue Aluminiumlegierung (RAL 7021)
- Reflektorabdeckung aus thermisch gehärtetem Sicherheitsglas
- Ausführung CRI → 70: 2700K, 3000K
  Auf Anfrage CRI → 70: 4000K, 5000K
- Wählbares optisches Leuchtensystem
- Überspannungsschutz 10 kV

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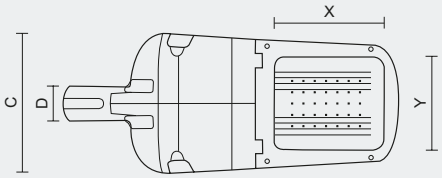
ESTA LED

TECHNISCHE BESCHREIBUNG

- Schutzart der Leuchte: IP66
- Maximale Umgebungstemperatur: ta = 45 °C
- Maximale Systemwirksamkeit: **153 lm/W**
- Angegebene Werte der Stromaufnahme und des Lichtstroms sind nach gültigen Standards in der Toleranz ± 7,5 %
- CRI → 70, CCT = 2700K, 3000K
- MacAdam 0 4 SDCM
- Lebensdauer: 100 000 Stunden / L90B20
- Körper: graue Aluminiumlegierung (RAL 7021)
- Reflektorabdeckung aus thermisch gehärtetem Sicherheitsglas
- Klemmkasten: mit Schrauben, dreipolig mit Trennschalter für Leitungsquerschnitt von max. 4mm2
- Kabeltülle: PG 9
- Installation: Eine Kipphalterung ist im Lieferumfang enthalten
- Elektrische Ausrüstung:
  - LED Module, Überspannungsschutz 10 kV
  - Versorgung 1 PN mit CLO und mit Mitternachtsfunktion
  - Versorgung DALI 4 PN



	A	B	C	D	X	Y
XS	568	227	100	60	137	156
S	630	265	95	60	185	150
M	720	310	100	60	235	200
L	870	345	127	76	345	250

Typ	Maximale Umgebungs-temperatur [°C]	Lichtstrom LED Module [lm]	Lichtstrom Leuchten [lm]	Verbrauch der Leuchte [W]	Wirkungsgrad der Leuchte [lm/W]	Gewicht netto [kg]
Umgebungstemperatur bis +45 °C - Körper graue Aluminiumlegierung						
ESTA LED XS 16/310/727	-40°|45°	2680	2300	16,3	141	3,5
ESTA LED XS 16/450/727	-40°|45°	3810	3280	23,1	142	3,5
ESTA LED XS 16/600/727	-40°|45°	4990	4290	30,7	140	3,5
ESTA LED S 16/310/727	-40°|45°	2700	2320	16,3	142	5
ESTA LED S 24/310/727	-40°|45°	3950	3400	23,9	142	5
ESTA LED S 24/450/727	-40°|45°	5690	4890	33,9	144	5
ESTA LED S 24/600/727	-40°|45°	7500	6450	45,3	142	5
ESTA LED M 32/310/727	-40°|45°	5340	4590	31,4	146	7,2
ESTA LED M 48/310/727	-40°|45°	7950	6840	45,3	151	7,2
ESTA LED M 48/450/727	-40°|45°	11410	9810	65,3	150	7,2
ESTA LED M 48/600/727	-40°|45°	14980	12800	88,1	146	7,2
ESTA LED L 96/310/727	-40°|45°	15900	13670	90,6	151	10
ESTA LED L 96/450/727	-40°|45°	22810	19620	130,6	150	10
ESTA LED L 96/550/727	-40°|45°	27460	23620	161,5	146	10
ESTA LED XS 16/310/730	-40°|45°	2720	2340	16,3	144	3,5
ESTA LED XS 16/450/730	-40°|45°	3870	3330	23,1	144	3,5
ESTA LED XS 16/600/730	-40°|45°	5070	4360	30,7	142	3,5
ESTA LED S 16/310/730	-40°|45°	2740	2360	16,3	145	5
ESTA LED S 24/310/730	-40°|45°	4010	3450	23,9	144	5
ESTA LED S 24/450/730	-40°|45°	5780	4970	33,9	147	5
ESTA LED S 24/600/730	-40°|45°	7610	6540	45,3	144	5
ESTA LED M 32/310/730	-40°|45°	5420	4660	31,4	148	7,2
ESTA LED M 48/310/730	-40°|45°	8070	6940	45,3	153	7,2
ESTA LED M 48/450/730	-40°|45°	11580	9960	65,3	153	7,2
ESTA LED M 48/600/730	-40°|45°	15210	13080	88,1	148	7,2
ESTA LED L 96/310/730	-40°|45°	16140	13880	90,6	153	10
ESTA LED L 96/450/730	-40°|45°	23160	19920	130,6	153	10
ESTA LED L 96/550/730	-40°|45°	27880	23980	161,5	148	10

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ESTA LED

Speisung 1 PN

Typ	AS	CP	MR1	EWS1	EP	WR1	WR2	CW1	WR3	TE	CW2	NR	CW1-90
ESTA LED XS 16/310/727	81045290	81045300	81045370	81045350	81045340	81045410	81045420	81045310	81045430	81045400	81045330	81045390	81045320
ESTA LED XS 16/450/727	81045450	81045460	81045530	81045510	81045500	81045570	81045580	81045470	81045590	81045560	81045490	81045550	81045480
ESTA LED XS 16/600/727	81045610	81045620	81045690	81045670	81045660	81045730	81045740	81045630	81045750	81045720	81045650	81045710	81045640
ESTA LED S 16/310/727	81044010	81044020	81044250	81044230	81044220	81044290	81044300	81044030	81044310	81044280	81044050	81044270	81044040
ESTA LED S 24/310/727	81044330	81044340	81044570	81044550	81044540	81044610	81044620	81044350	81044630	81044600	81044370	81044590	81044360
ESTA LED S 24/450/727	81044650	81044660	81044890	81044870	81044860	81044930	81044940	81044670	81044950	81044920	81044690	81044910	81044680
ESTA LED S 24/600/727	81044970	81044980	81045210	81045190	81045180	81045250	81045260	81044990	81045270	81045920	81045010	81045230	81045000
ESTA LED M 32/310/727	81042730	81042740	81042970	81042950	81042940	81043010	81043020	81042750	81043030	81045240	81042770	81042990	81042760
ESTA LED M 48/310/727	81043050	81043060	81043290	81043270	81043260	81043330	81043340	81043070	81043350	81043000	81043090	81043310	81043080
ESTA LED M 48/450/727	81043370	81043380	81043610	81043590	81043580	81043650	81043660	81043390	81043670	81043320	81043410	81043630	81043400
ESTA LED M 48/600/727	81043690	81043700	81043930	81043910	81043900	81043970	81043980	81043710	81043990	81043960	81043730	81043950	81043720
ESTA LED L 96/310/727	81041770	81041780	81042010	81041990	81041980	81042050	81042060	81041790	81042070	81042040	81041810	81042030	81041800
ESTA LED L 96/450/727	81042090	81042100	81042330	81042310	81042300	81042370	81042380	81042110	81042390	81042360	81042130	81042350	81042120
ESTA LED L 96/550/727	81042410	81042420	81042650	81042630	81042620	81042690	81042700	81042430	81042710	81042680	81042450	81042670	81042440
ESTA LED XS 16/310/730	81049290	81049300	81049370	81049350	81049340	81049410	81049420	81049310	81049430	81049400	81049330	81049390	81049320
ESTA LED XS 16/450/730	81049450	81049460	81049530	81049510	81049500	81049570	81049580	81049470	81049590	81049560	81049490	81049550	81049480
ESTA LED XS 16/600/730	81049610	81049620	81049690	81049670	81049660	81049730	81049740	81049630	81049750	81049720	81049650	81049710	81049640
ESTA LED S 16/310/730	81048010	81048020	81048250	81048230	81048220	81048290	81048300	81048030	81048310	81048280	81048050	81048270	81048040
ESTA LED S 24/310/730	81048330	81048340	81048570	81048550	81048540	81048610	81048620	81048350	81048630	81048600	81048370	81048590	81048360
ESTA LED S 24/450/730	81048650	81048660	81048890	81048870	81048860	81048930	81048940	81048670	81048950	81048920	81048690	81048910	81048680
ESTA LED S 24/600/730	81048970	81048980	81049210	81049190	81049180	81049250	81049260	81048990	81049270	81049240	81049010	81049230	81049000
ESTA LED M 32/310/730	81046730	81046740	81046970	81046950	81046940	81047010	81047020	81046750	81047030	81047000	81046770	81046990	81046760
ESTA LED M 48/310/730	81047050	81047060	81047290	81047270	81047260	81047330	81047340	81047070	81047350	81047320	81047090	81047310	81047080
ESTA LED M 48/450/730	81047370	81047380	81047610	81047590	81047580	81047650	81047660	81047390	81047670	81047640	81047410	81047630	81047400
ESTA LED M 48/600/730	810476908	81047700	81047930	81047910	81047900	81047970	81047980	81047710	81047990	81047960	81047730	81047950	81047720
ESTA LED L 96/310/730	81045770	81045780	81046010	81045990	81045980	81016050	81046060	81045790	81046070	81046040	81045810	81046030	81045800
ESTA LED L 96/450/730	81046060	81046100	81046330	81046310	81046300	81046370	81046380	81046110	81046390	81046360	81046130	81046350	81046120
ESTA LED L 96/550/730	81046410	81046420	81046650	81046630	81046620	81046690	81046700	81046430	81046710	81046680	81046450	81046670	81046440

102276 Einstellungen der Mittenachtsfunktion

ESTA LED DALI (D)

Digital dimmbare Speisung DALI 4 PN

Typ	AS	CP	MR1	EWS1	EP	WR1	WR2	CW1	WR3	TE	CW2	NR	CW1-90
ESTA LED XS 16/310/727 D	x	x	x	x	x	x	x	x	x	x	x	x	x
ESTA LED XS 16/450/727 D	x	x	x	x	x	x	x	x	x	x	x	x	x
ESTA LED XS 16/600/727 D	x	x	x	x	x	x	x	x	x	x	x	x	x
ESTA LED S 16/310/727 D	81044060	81044070	81044140	81044120	81044110	81044180	81044190	81044080	81044200	81044170	81044100	81044160	81044090
ESTA LED S 24/310/727 D	81044380	81044390	81044460	81044440	81044430	81044500	81044510	81044400	81044500	81044490	81044420	81044480	81044410
ESTA LED S 24/450/727 D	81044700	81044710	81044780	81044760	81044750	81044820	81044830	81044720	81044840	81044810	81044740	81044800	81044730
ESTA LED S 24/600/727 D	81045020	81045030	81045100	81045080	81045070	81045140	81045150	81045040	81045160	81045130	81045060	81045120	81045050
ESTA LED M 32/310/727 D	81042780	81042790	81042860	81042840	81042830	81042900	81042910	81042800	81042920	81042890	81042820	81042880	81042810
ESTA LED M 48/310/727 D	81043100	81043110	81043180	81043160	81043150	81043220	81043230	81043120	81043240	81043210	81043140	81043200	81043130
ESTA LED M 48/450/727 D	81043420	81043430	81043500	81043480	81043470	81043540	81043550	81043440	81043560	81043530	81043460	81043520	81043450
ESTA LED M 48/600/727 D	81043740	81043750	81043820	81043800	81043790	81043860	81043870	81043760	81043880	81043850	81043780	81043840	81043770
ESTA LED L 96/310/727 D	81041820	81041830	81041900	81041880	81041870	81041940	81041950	81041840	81041960	81041930	81041860	81041920	81041850
ESTA LED L 96/450/727 D	81042140	81042150	81042220	81042200	81042190	81042260	81042270	81042160	81042280	81042250	81042180	81042240	81042170
ESTA LED L 96/550/727 D	81042460	81042470	81042540	81042520	81042510	81042580	81042590	81042480	81042600	81042570	81042500	81042560	81042490
ESTA LED XS 16/310/730 D	x	x	x	x	x	x	x	x	x	x	x	x	x
ESTA LED XS 16/450/730 D	x	x	x	x	x	x	x	x	x	x	x	x	x
ESTA LED XS 16/600/730 D	x	x	x	x	x	x	x	x	x	x	x	x	x
ESTA LED S 16/310/730 D	81048060	81048070	81048140	81048120	81048110	81048180	81048190	81048080	81048200	81048170	81048100	81048160	81048090
ESTA LED S 24/310/730 D	81048380	81048390	81048460	81048440	81048430	81048500	81048510	81048400	81048520	81048490	81048420	81048480	81048410
ESTA LED S 24/450/730 D	81048700	81048710	81048780	81048760	81048750	81048820	81048830	81048720	81048840	81048810	81048740	81048800	81048730
ESTA LED S 24/600/730 D	81049020	81049030	81049100	81049080	81049070	81049140	81049150	81049040	81049160	81049130	81049060	81049120	81049050
ESTA LED M 32/310/730 D	81046780	81046790	81046860	81046840	81046830	81046900	81046910	81046800	81046920	81046890	81046820	81046880	81046810
ESTA LED M 48/310/730 D	81047100	81047110	81047180	81047160	81047150	81047220	81047230	81047120	81047240	81047210	81047140	81047200	81047130
ESTA LED M 48/450/730 D	81047420	81047430	81047500	81047480	81047470	81047540	81047550	81047440	81047560	81047530	81047460	81047520	81047450
ESTA LED M 48/600/730 D	81047740	81047750	81047820	81047800	81047790	81047860	81047870	81047760	81047880	81047850	81047780	81047840	81047770
ESTA LED L 96/310/730 D	81045820	81045830	81045900	81045880	81045870	81045940	81045950	81045840	81045960	81045930	81045860	81045920	81045850
ESTA LED L 96/450/730 D	81046140	81046150	81046220	81046200	81046190	81046260	81046270	81046160	81046280	81046250	81046180	81046240	81046170
ESTA LED L 96/550/730 D	81046460	81046470	81046540	81046520	81046510	81046580	81046590	81046480	8104660	81046570	81046500	81046560	81046490

102276 Einstellungen der Mittenachtsfunktion

Beispiele der Typenbezeichnung: 81047820 = ESTA LED M 48/600/730 DALI MR1

ERLÄUTERUNG

DALI – Ausführung mit digital dimmbarer Speisung DALI

AS – Asymmetric – asymmetrische Optik

CP – Central parking – für den Innenbereich von Parkplätzen

MR1 – Main road – Hauptverkehrswege

EWS1 – Extra wide street – sehr breite Verkehrswege

EP – Edge parking – Randbereiche und Ecken von Parkplätzen

WR1 – Wide road – für Gehwege und Wohnviertel

WR2 – Wide road – für Gehwege und Zufahrtswege

CW1 – Crosswalk – Zebrastreifen oder Radfahrerüberfahrten

WR3 – Wide road – für Gehwege und Zufahrtswege

TE – Tunnel entrance – für Einfahrten in Tunnel, Unterführungen und Objekte

CW2 – Crosswalk – Zebrastreifen oder Radfahrerüberfahrten

NR – Narrow road – Nebenverkehrswege

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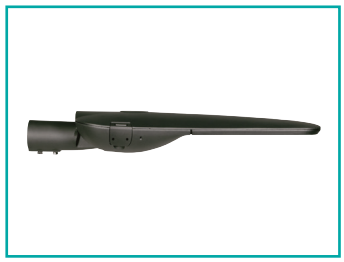
ARTEN DER BEFESTIGUNG VON LEUCHTEN

a) Mit Wandausleger direkt an die Wand
b) Mit Bogenausleger an Mast
c) Mit abgewinkeltem Ausleger an Mast
d) Direkt an der Säule

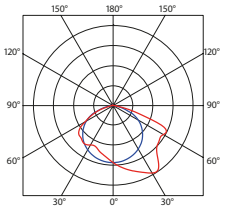
DETAIL DER LEUCHTE

ESTA LED



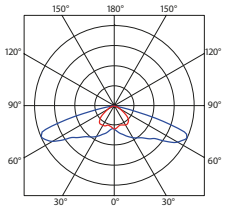
ESTA LED - OPTIK

AS
ASYMETRIC



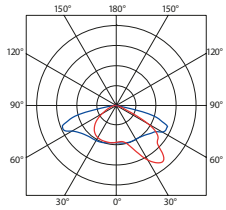
ASYMETRIC

CP
CENTRAL PARKING



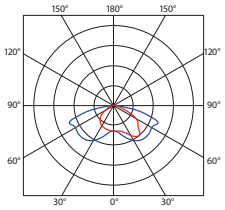
TYPE I

MR1
MAIN ROAD



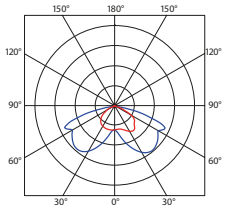
TYPE II ME3A

EWS1
EXTRA WIDE STREET



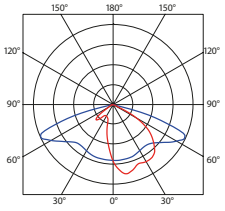
TYPE III - M

EP
EDGE PARKING



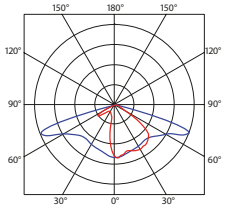
TYPE IV

WR1
WIDE ROAD



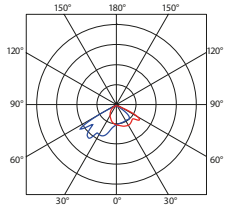
TYPE II / III

WR2
WIDE ROAD



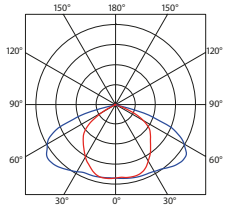
TYPE II OPTI

CW1
CROSSWALK



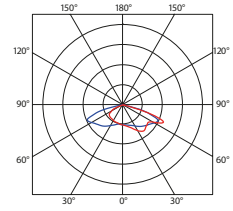
CROSSWALKS

WR3
WIDE ROAD



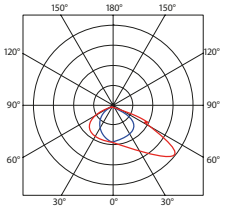
TYPE I CENTRAL LANE

TE
TUNEL ENTRANCE



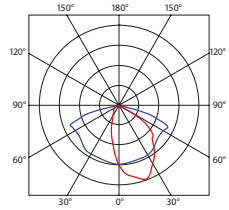
TYPE IV TUNNEL ENTRANCE

CW2
CROSSWALK



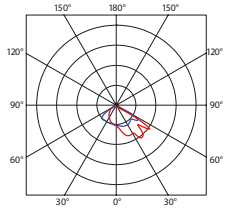
CROSSWALKS

NR
NARROW ROAD



TYPE II ME3

CW1-90
CROSSWALK



CROSSWALKS

C0
C90

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