



LF/LS 13/14 iBox Smart

MAIN CHARACTERISTICS

Applications	Street and urban lighting
Optic	<p>STE-M/S: Asymmetrical optic for suburban street lighting. STU-M/S: Asymmetrical optic for street, urban and cycle-path lighting. STW: Asymmetrical optic for wide urban and suburban road lighting, specific for wet asphalts. SV/SV2: Asymmetrical optic for very narrow urban streets or highway entrance/exit turns. S05: Asymmetrical optic for street, urban and green areas lighting. S: Symmetrical optic for urban lighting and green areas. TS: Symmetrical optic for centre road lighting. Colour temperature: 4000K (3000K optional) CRI ≥ 70 Photobiological safety class: EXEMPT GROUP LED source efficiency: 168 lm/W @ 525mA, Tj=85°C, 4000K</p>
Insulation class	II, I
Protection degree	Optical unit: IP66 Gear tray compartment: IP44 IK08
Dimensions	LF13/14: 420x420x780mm LS13/14: 420x420x845mm
Weight	max. 10 kg
Exposed surface	Side: 0.10m ² – Top: 0.18m ²
Installation	LF13/14: pole top installation for 1/2" GAS male. LS13/14: suspended installation for 1/2" GAS female.
Gear tray	Removable
Operating temp.	-40°C / +35°C
Storage temperature	-40°C / +80°C
Main reference	EN 60598-1, EN 60598-2-3, EN 62471, EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3
 	

ELECTRICAL CHARACTERISTICS

Rated voltage	220÷240V 50/60Hz
Power factor	>0,9 (at full load)
Mains Connection	For cables max section 2,5mm ²
Surge protection	Up to 10kV With SPD (optional) 10kV / 10kV CM/DM
SPD (optional)	10kV-10kA, type 2+3, with LED signal and thermo fuse to disconnect load at the end of life.
Control system (options)	WL: Wireless single point communication system. DALI: Digital dimming interface DALI.
Optical unit lifetime (Ta=25°C, 700mA)	>100.000hr L90B10 >100.000hr L90, TM-21

MATERIALS

Fixing	LF13/14: Die-cast aluminum. LS13/14: Stainless steel tube.
Body	LF/LS13: Profiles: steel, upper dome: aluminium. LF/LS14: Profiles: brass, upper dome: copper.
Optical unit body	Die-cast aluminum UNI EN1706 powder painted.
Optic	99.85% aluminum with a surface finish in 99.95% with vacuum-sealed deposition. Aluminum grade class A+ (DIN EN 16268)
Screen	Flat tempered glass, 4mm thickness PCG.
Colour	LF/LS13: Graphite - Cod. 01 LF/LS14: Brass





LUMINAIRE	OPTIC	LED CURRENT (mA)	RATED LUMINAIRE FLUX* (Tq=25°C, 4000K, lm)	RATED LUMINAIRE POWER* (Tq=25°C, Vin=230Vac, F/DA/DAC, W)	LUMINAIRE EFFICACY (Tq=25°C, lm/W)	RATED LED FLUX* (Tj=85°C, 4000K, lm)	RATED LED POWER* (Tj=85°C, W)
LF-LS 13-14 iBox Smart 0F2H1 4.5-1M PCG	S05	525	1430	16	89	2184	13
LF-LS 13-14 iBox Smart 0F2H1 4.5-2M PCG	STU-M		2800	30.5	91	4368	26
LF-LS 13-14 iBox Smart 0F2H1 4.5-3M PCG	STU-S		4200	44	95	6553	39
LF-LS 13-14 iBox Smart 0F2H1 4.5-4M PCG	SV SV2 TS		5430	57	95	8737	52
LF-LS 13-14 iBox Smart 0F2H1 4.7-1M PCG	S05	700	1840	21.5	85	2765	17
LF-LS 13-14 iBox Smart 0F2H1 4.7-2M PCG	STU-M		3590	40	89	5530	35
LF-LS 13-14 iBox Smart 0F2H1 4.7-3M PCG	STU-S		5340	58	92	8295	53
LF-LS 13-14 iBox Smart 0F2H1 4.7-4M PCG	SV SV2 TS		6830	76	89	11060	71
LF-LS 13-14 iBox Smart 0F3 4.5-1M PCG	STE-M STE-S STW	525	1980	21.5	92	2950	17
LF-LS 13-14 iBox Smart 0F3 4.5-2M PCG			3920	39	100	5901	34
LF-LS 13-14 iBox Smart 0F3 4.5-3M PCG			5690	57	99	8851	52
LF-LS 13-14 iBox Smart 0F3 4.5-4M PCG			7560	76	99	11802	69
LF-LS 13-14 iBox Smart 0F3 4.7-1M PCG	STE-M	700	2490	28	88	3735	23
LF-LS 13-14 iBox Smart 0F3 4.7-2M PCG	STE-S		4960	52	95	7470	47
LF-LS 13-14 iBox Smart 0F3 4.7-3M PCG	STW		7160	76	94	11205	71
LF-LS 13-14 iBox Smart 0F3 4.5-1M PCG	S05	525	1900	21.5	88	2950	17
LF-LS 13-14 iBox Smart 0F3 4.5-2M PCG			3760	39	96	5901	34
LF-LS 13-14 iBox Smart 0F3 4.5-3M PCG			5460	57	95	8851	52
LF-LS 13-14 iBox Smart 0F3 4.5-4M PCG			7260	76	95	11802	69
LF-LS 13-14 iBox Smart 0F3 4.7-1M PCG	S05	700	2390	28	85	3735	23
LF-LS 13-14 iBox Smart 0F3 4.7-2M PCG			4760	52	91	7470	47
LF-LS 13-14 iBox Smart 0F3 4.7-3M PCG			6870	76	90	11205	71



LUMINAIRE	OPTIC	LED CURRENT (mA)	RATED LUMINAIRE FLUX* (Tq=25°C, 4000K, lm)	RATED LUMINAIRE POWER* (Tq=25°C, Vin=230Vac, F/DA/DAC, W)	LUMINAIRE EFFICACY (Tq=25°C, lm/W)	RATED LED FLUX* (Tj=85°C, 4000K, lm)	RATED LED POWER* (Tj=85°C, W)
LF-LS 13-14 iBox Smart 0F2H1 4.5-2M PCG	S	525	2800	30.5	91	4368	26
LF-LS 13-14 iBox Smart 0F2H1 4.5-4M PCG			5430	57	95	8737	52
LF-LS 13-14 iBox Smart 0F2H1 4.7-2M PCG	S	700	3590	40	89	5530	35
LF-LS 13-14 iBox Smart 0F2H1 4.7-4M PCG			6830	76	89	11060	71

*RATED LUMINAIRE FLUX / RATED LUMINAIRE POWER: Rated data obtained in laboratory.

*RATED LED FLUX / RATED LED POWER: Rated data extrapolated from LED manufacturer datasheet.

Values indicated in this technical sheet are to be considered rated values. Flux tolerance: ±7%. Power tolerance: ±5%.

The characteristics of the product listed above are subjected to change without notice.



LUMINAIRE	OPTIC	LED CURRENT (mA)	RATED LUMINAIRE FLUX* (Tq=25°C, 3000K, lm)	RATED LUMINAIRE POWER* (Tq=25°C, Vin=230Vac, F/DA/DAC, W)	LUMINAIRE EFFICACY (Tq=25°C, lm/W)	RATED LED FLUX* (Tj=85°C, 3000K, lm)	RATED LED POWER* (Tj=85°C, W)
LF-LS 13-14 iBox Smart 0F2H1 3.5-1M PCG	S05	525	1330	16	83	1990	13
LF-LS 13-14 iBox Smart 0F2H1 3.5-2M PCG	STU-M		2600	30.5	85	3981	26
LF-LS 13-14 iBox Smart 0F2H1 3.5-3M PCG	STU-S		3910	44	88	5972	39
LF-LS 13-14 iBox Smart 0F2H1 3.5-4M PCG	SV SV2 TS		5050	57	88	7963	52
LF-LS 13-14 iBox Smart 0F2H1 3.7-1M PCG	S05	700	1710	21.5	79	2520	17
LF-LS 13-14 iBox Smart 0F2H1 3.7-2M PCG	STU-M		3340	40	83	5040	35
LF-LS 13-14 iBox Smart 0F2H1 3.7-3M PCG	STU-S		4970	58	85	7560	53
LF-LS 13-14 iBox Smart 0F2H1 3.7-4M PCG	SV SV2 TS		6350	76	83	10080	71
LF-LS 13-14 iBox Smart 0F3 3.5-1M PCG	STE-M STE-S STW	525	1840	21.5	85	2701	17
LF-LS 13-14 iBox Smart 0F3 3.5-2M PCG			3650	39	93	5403	34
LF-LS 13-14 iBox Smart 0F3 3.5-3M PCG			5290	57	92	8105	52
LF-LS 13-14 iBox Smart 0F3 3.5-4M PCG			7030	76	92	10807	69
LF-LS 13-14 iBox Smart 0F3 3.7-1M PCG	STE-M	700	2320	28	82	3420	23
LF-LS 13-14 iBox Smart 0F3 3.7-2M PCG	STE-S		4610	52	88	6840	47
LF-LS 13-14 iBox Smart 0F3 3.7-3M PCG	STW		6660	76	87	10260	71
LF-LS 13-14 iBox Smart 0F3 3.5-1M PCG	S05	525	1770	21.5	82	2701	17
LF-LS 13-14 iBox Smart 0F3 3.5-2M PCG			3500	39	89	5403	34
LF-LS 13-14 iBox Smart 0F3 3.5-3M PCG			5080	57	89	8105	52
LF-LS 13-14 iBox Smart 0F3 3.5-4M PCG			6750	76	88	10807	69
LF-LS 13-14 iBox Smart 0F3 3.7-1M PCG	S05	700	2220	28	79	3420	23
LF-LS 13-14 iBox Smart 0F3 3.7-2M PCG			4430	52	85	6840	47
LF-LS 13-14 iBox Smart 0F3 3.7-3M PCG			6390	76	84	10260	71



LUMINAIRE	OPTIC	LED CURRENT (mA)	RATED LUMINAIRE FLUX* (Tq=25°C, 3000K, lm)	RATED LUMINAIRE POWER* (Tq=25°C, Vin=230Vac, F/DA/DAC, W)	LUMINAIRE EFFICACY (Tq=25°C, lm/W)	RATED LED FLUX* (Tj=85°C, 3000K, lm)	RATED LED POWER* (Tj=85°C, W)
LF-LS 13-14 iBox Smart 0F2H1 3.5-2M PCG	S	525	2600	30.5	85	3981	26
LF-LS 13-14 iBox Smart 0F2H1 3.5-4M PCG			5050	57	88	7963	52
LF-LS 13-14 iBox Smart 0F2H1 3.7-2M PCG	S	700	3340	40	83	5040	35
LF-LS 13-14 iBox Smart 0F2H1 3.7-4M PCG			6350	76	83	10080	71

*RATED LUMINAIRE FLUX / RATED LUMINAIRE POWER: Rated data obtained in laboratory.

*RATED LED FLUX / RATED LED POWER: Rated data extrapolated from LED manufacturer datasheet.

Values indicated in this technical sheet are to be considered rated values. Flux tolerance: ±7%. Power tolerance: ±5%.

The characteristics of the product listed above are subjected to change without notice.