



## LF/LS 13/14 iBox SMART

### MAIN CHARACTERISTICS

<b>Applications</b>	Street and urban lighting
<b>Optic</b>	<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>
<b>Insulation class</b>	II, I
<b>Protection degree</b>	Optical unit: IP66   Gear tray compartment: IP44 IK08
<b>Tilt angle</b>	0°
<b>Installation</b>	LF13/14: pole top installation for 1/2" GAS male. LS13/14: suspended installation for 1/2" GAS female.
<b>Gear tray</b>	Removable
<b>Dimensions &amp; weight</b>	LF13/14: 420x420x780mm   LS13/14: 420x420x845mm – max. 10 kg
<b>Exposed surface</b>	Side: 0.10m <sup>2</sup> – Top: 0.18m <sup>2</sup>
<b>Operating temp.</b>	-40°C / +35°C
<b>Storage temperature</b>	-40°C / +80°C
<b>Main reference</b>	EN 60598-1, EN 60598-2-3, EN 62471, EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3



### ELECTRICAL CHARACTERISTICS

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

### MATERIALS

<b>Fixing</b>	LF13/14: Die-cast aluminum. LS13/14: Stainless steel tube.
<b>Body</b>	LF/LS13: Profiles: steel, upper dome: aluminium. LF/LS14: Profiles: brass, upper dome: copper.
<b>Optical unit body</b>	Die-cast aluminum UNI EN1706 powder painted.
<b>Optic</b>	99,85% aluminum with a surface finish in 99,95% with vacuum-sealed deposition. Aluminum grade class A+ (DIN EN 16268)
<b>Screen</b>	Flat tempered glass, 4mm thickness PCG.
<b>Colour</b>	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 STU-M STU-S SV SV2 TS	525	1430	16	89	2184	13
LF-LS 13-14 iBox SMART 0F2H1 4.5-2M PCG			2800	30.5	91	4368	26
LF-LS 13-14 iBox SMART 0F2H1 4.5-3M PCG			4200	44	95	6552	39
LF-LS 13-14 iBox SMART 0F2H1 4.5-4M PCG			5430	57	95	8736	52
LF-LS 13-14 iBox SMART 0F2H1 4.7-1M PCG	S05 STU-M STU-S SV SV2 TS	700	1840	21.5	85	2765	18
LF-LS 13-14 iBox SMART 0F2H1 4.7-2M PCG			3590	40	89	5530	36
LF-LS 13-14 iBox SMART 0F2H1 4.7-3M PCG			5340	58	92	8295	54
LF-LS 13-14 iBox SMART 0F2H1 4.7-4M PCG			6830	76	89	11060	72
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	5900	34
LF-LS 13-14 iBox SMART 0F3 4.5-3M PCG			5690	57	99	8850	51
LF-LS 13-14 iBox SMART 0F3 4.5-4M PCG			7560	76	99	11800	68
LF-LS 13-14 iBox SMART 0F3 4.7-1M PCG	STE-M STE-S STW	700	2490	28	88	3735	24
LF-LS 13-14 iBox SMART 0F3 4.7-2M PCG			4960	52	95	7470	48
LF-LS 13-14 iBox SMART 0F3 4.7-3M PCG			7160	76	94	11205	72
LF-LS 13-14 iBox SMART 0F3 4.5-1M PCG	S05	525	1880	21.5	87	2950	17
LF-LS 13-14 iBox SMART 0F3 4.5-2M PCG			3730	39	95	5900	34
LF-LS 13-14 iBox SMART 0F3 4.5-3M PCG			5410	57	94	8850	51
LF-LS 13-14 iBox SMART 0F3 4.5-4M PCG			7180	76	94	11800	68
LF-LS 13-14 iBox SMART 0F3 4.7-1M PCG	S05	700	2360	28	84	3735	24
LF-LS 13-14 iBox SMART 0F3 4.7-2M PCG			4710	52	90	7470	48
LF-LS 13-14 iBox SMART 0F3 4.7-3M PCG			6800	76	89	11205	72



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	8736	52
LF-LS 13-14 iBox SMART 0F2H1 4.7-2M PCG	S	700	3590	40	89	5530	36
LF-LS 13-14 iBox SMART 0F2H1 4.7-4M PCG			6830	76	89	11060	72

\*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 STU-M STU-S SV SV2 TS	525	1330	16	83	1990	13
LF-LS 13-14 iBox SMART 0F2H1 3.5-2M PCG			2600	30.5	85	3980	26
LF-LS 13-14 iBox SMART 0F2H1 3.5-3M PCG			3910	44	88	5970	39
LF-LS 13-14 iBox SMART 0F2H1 3.5-4M PCG			5050	57	88	7960	52
LF-LS 13-14 iBox SMART 0F2H1 3.7-1M PCG	S05 STU-M STU-S SV SV2 TS	700	1710	21.5	79	2520	18
LF-LS 13-14 iBox SMART 0F2H1 3.7-2M PCG			3340	40	83	5040	36
LF-LS 13-14 iBox SMART 0F2H1 3.7-3M PCG			4970	58	85	7560	54
LF-LS 13-14 iBox SMART 0F2H1 3.7-4M PCG			6350	76	83	10080	72
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	5402	34
LF-LS 13-14 iBox SMART 0F3 3.5-3M PCG			5290	57	92	8103	51
LF-LS 13-14 iBox SMART 0F3 3.5-4M PCG			7030	76	92	10804	68
LF-LS 13-14 iBox SMART 0F3 3.7-1M PCG	STE-M STE-S STW	700	2320	28	82	3420	24
LF-LS 13-14 iBox SMART 0F3 3.7-2M PCG			4610	52	88	6840	48
LF-LS 13-14 iBox SMART 0F3 3.7-3M PCG			6660	76	87	10260	72
LF-LS 13-14 iBox SMART 0F3 3.5-1M PCG	S05	525	1750	21.5	81	2701	17
LF-LS 13-14 iBox SMART 0F3 3.5-2M PCG			3470	39	88	5402	34
LF-LS 13-14 iBox SMART 0F3 3.5-3M PCG			5030	57	88	8103	51
LF-LS 13-14 iBox SMART 0F3 3.5-4M PCG			6680	76	87	10804	68
LF-LS 13-14 iBox SMART 0F3 3.7-1M PCG	S05	700	2190	28	78	3420	24
LF-LS 13-14 iBox SMART 0F3 3.7-2M PCG			4380	52	84	6840	48
LF-LS 13-14 iBox SMART 0F3 3.7-3M PCG			6320	76	83	10260	72



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	3980	26
LF-LS 13-14 iBox SMART 0F2H1 3.5-4M PCG			5050	57	88	7960	52
LF-LS 13-14 iBox SMART 0F2H1 3.7-2M PCG	S	700	3340	40	83	5040	36
LF-LS 13-14 iBox SMART 0F2H1 3.7-4M PCG			6350	76	83	10080	72

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