



LF13/14

LS13/14

## LF/LS 13/14 iBox

### 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   Driver: IP67 IK08
<b>Dimensions</b>	LF13/14: 420x420x780mm   LS13/14: 420x420x845mm
<b>Weight</b>	max. 10 kg
<b>Exposed surface</b>	Side: 0.10m <sup>2</sup> – Top: 0.18m <sup>2</sup>
<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>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>	Cable: H05RN-F 2/3x1mm <sup>2</sup> Optional: connector M/F IP66/68 for cables max. 2,5mm <sup>2</sup> , Ø max. 12mm
<b>Surge protection</b>	CL. II: 8kV / 10kV CM/DM CL. I: 8kV / 10kV CM/DM (optional)
<b>Control system (options)</b>	F: Fixed power not dimmable. DA: Automatic dimming (virtual midnight) with default profile. DAC: Custom DA profile. FLC: Constant light flux. D10: Dimming interface with 1-10V signal.
<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 0F2H1 4.5-1M PCG	S05	525	1430	16.5	86	2184	13
LF-LS 13-14 iBox 0F2H1 4.5-2M PCG	STU-M		2800	31	90	4368	26
LF-LS 13-14 iBox 0F2H1 4.5-3M PCG	STU-S		4200	45	93	6553	39
LF-LS 13-14 iBox 0F2H1 4.5-4M PCG	SV SV2 TS		5430	58	93	8737	52
LF-LS 13-14 iBox 0F2H1 4.7-1M PCG	S05	700	1840	22	83	2765	17
LF-LS 13-14 iBox 0F2H1 4.7-2M PCG	STU-M		3590	41	87	5530	35
LF-LS 13-14 iBox 0F2H1 4.7-3M PCG	STU-S		5340	59	90	8295	53
LF-LS 13-14 iBox 0F2H1 4.7-4M PCG	SV SV2 TS		6830	77.5	88	11060	71
LF-LS 13-14 iBox 0F3 4.5-1M PCG	STE-M STE-S STW	525	1980	22	90	2950	17
LF-LS 13-14 iBox 0F3 4.5-2M PCG			3920	40	98	5901	34
LF-LS 13-14 iBox 0F3 4.5-3M PCG			5690	58	98	8851	52
LF-LS 13-14 iBox 0F3 4.5-4M PCG			7560	77.5	97	11802	69
LF-LS 13-14 iBox 0F3 4.7-1M PCG	STE-M	700	2490	28.5	87	3735	23
LF-LS 13-14 iBox 0F3 4.7-2M PCG	STE-S		4960	53	93	7470	47
LF-LS 13-14 iBox 0F3 4.7-3M PCG	STW		7160	77.5	92	11205	71
LF-LS 13-14 iBox 0F3 4.5-1M PCG	S05	525	1900	22	86	2950	17
LF-LS 13-14 iBox 0F3 4.5-2M PCG			3760	40	94	5901	34
LF-LS 13-14 iBox 0F3 4.5-3M PCG			5460	58	94	8851	52
LF-LS 13-14 iBox 0F3 4.5-4M PCG			7260	77.5	93	11802	69
LF-LS 13-14 iBox 0F3 4.7-1M PCG	S05	700	2390	28.5	83	3735	23
LF-LS 13-14 iBox 0F3 4.7-2M PCG			4760	53	89	7470	47
LF-LS 13-14 iBox 0F3 4.7-3M PCG			6870	77.5	88	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 0F2H1 4.5-2M PCG	S	525	2800	31	90	4368	26
LF-LS 13-14 iBox 0F2H1 4.5-4M PCG			5430	58	93	8737	52
LF-LS 13-14 iBox 0F2H1 4.7-2M PCG	S	700	3590	41	87	5530	35
LF-LS 13-14 iBox 0F2H1 4.7-4M PCG			6830	77.5	88	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: ±10%.

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 0F2H1 3.5-1M PCG	S05	525	1330	16.5	80	1990	13
LF-LS 13-14 iBox 0F2H1 3.5-2M PCG	STU-M		2600	31	83	3981	26
LF-LS 13-14 iBox 0F2H1 3.5-3M PCG	STU-S		3910	45	86	5972	39
LF-LS 13-14 iBox 0F2H1 3.5-4M PCG	SV SV2 TS		5050	58	87	7963	52
LF-LS 13-14 iBox 0F2H1 3.7-1M PCG	S05	700	1710	22	77	2520	17
LF-LS 13-14 iBox 0F2H1 3.7-2M PCG	STU-M		3340	41	81	5040	35
LF-LS 13-14 iBox 0F2H1 3.7-3M PCG	STU-S		4970	59	84	7560	53
LF-LS 13-14 iBox 0F2H1 3.7-4M PCG	SV SV2 TS		6350	77.5	81	10080	71
LF-LS 13-14 iBox 0F3 3.5-1M PCG	STE-M STE-S STW	525	1840	22	83	2701	17
LF-LS 13-14 iBox 0F3 3.5-2M PCG			3650	40	91	5403	34
LF-LS 13-14 iBox 0F3 3.5-3M PCG			5290	58	91	8105	52
LF-LS 13-14 iBox 0F3 3.5-4M PCG			7030	77.5	90	10807	69
LF-LS 13-14 iBox 0F3 3.7-1M PCG	STE-M	700	2320	28.5	81	3420	23
LF-LS 13-14 iBox 0F3 3.7-2M PCG	STE-S		4610	53	86	6840	47
LF-LS 13-14 iBox 0F3 3.7-3M PCG	STW		6660	77.5	85	10260	71
LF-LS 13-14 iBox 0F3 3.5-1M PCG	S05	525	1770	22	80	2701	17
LF-LS 13-14 iBox 0F3 3.5-2M PCG			3500	40	87	5403	34
LF-LS 13-14 iBox 0F3 3.5-3M PCG			5080	58	87	8105	52
LF-LS 13-14 iBox 0F3 3.5-4M PCG			6750	77.5	87	10807	69
LF-LS 13-14 iBox 0F3 3.7-1M PCG	S05	700	2220	28.5	77	3420	23
LF-LS 13-14 iBox 0F3 3.7-2M PCG			4430	53	83	6840	47
LF-LS 13-14 iBox 0F3 3.7-3M PCG			6390	77.5	82	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 0F2H1 3.5-2M PCG	S	525	2600	31	83	3981	26
LF-LS 13-14 iBox 0F2H1 3.5-4M PCG			5050	58	87	7963	52
LF-LS 13-14 iBox 0F2H1 3.7-2M PCG	S	700	3340	41	81	5040	35
LF-LS 13-14 iBox 0F2H1 3.7-4M PCG			6350	77.5	81	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: ±10%.

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