OLMEC
group sheffield

www.surelight.com

Technical Data
Max Ø5.0 Surelight EL wire

Grade: Max Colour	Standard Diameter Ø (mm)	Chromaticity 100V 400Hz X	Chromaticity 100V 400Hz Y	Brightness 100V 120V 2000Hz Cd/m²	Twisting Angle o (Degrees)/m	Stretching Force Kg	Bending Diameter mm	Operating temperature ° C (Degrees)	Lifetime* 100VAC & 400Hz Hours
Lime	∅ 5.0	0.255	0.689	152.8 228.0	30	1.0	60	- 20 to 55	5700
Red	∅ 5.0	0.713	0.288	25.4 37.5	30	1.0	60	- 20 to 55	5700
Aqua	∅ 5.0	0.194	0.546	103.0 155.0	30	1.0	60	- 20 to 55	5700
Green	∅ 5.0	0.126	0.543	77.1 118.6	30	1.0	60	- 20 to 55	5700
Blue	∅ 5.0	0.101	0.432	53.3 81.0	30	1.0	60	- 20 to 55	5700
Orange	∅ 5.0	0.686	0.317	31.6 48.2	30	1.0	60	- 20 to 55	5700
Gold	∅ 5.0	0.510	0.488	128.1 190.2	30	1.0	60	- 20 to 55	5700
White	∅ 5.0	0.355	0.420	151.0 212.0	30	1.0	60	- 20 to 55	5700

All values are to be used as average values / typical ranges ± 20% measured at 20°C
* lifetime based upon operation cycles: 6 hours on, 18 hours off - reaching 30% of the initial brightness.
Average AC current: 120 mAmp, Input Voltage: 90VAC (rms)
Insulation Breakdown Voltage: 4,000 Volts per IEC 335-1

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Colour	Mid Europe - Approximate time to discoloration after average sunlight exposure dose (months)	Tropical Area - Approximate time to discoloration after average sunlight exposure dose (months)
Aqua	24	12
Blue	24	12
White	18	9
Green	18	9
Pink	8	4
Red	6	3

Typical Current Consumption (mAmp/1meter of Surelight Wire)

Voltage [Vrms]	200 Hz	400 Hz	800 Hz	2000 Hz
80	0.62	1.12	2.10	5.24
100	0.88	1.47	2.81	6.80
120	1.29	1.90	3.50	8.61

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