

LumiLor Electroluminescent Material Reference Guide

This data was collected by driving a fixed DC voltage into the input of the 5-15m EL wire (small black box) inverters. Luminance, half-life and maintenance figures are what can be expected from running the panels at these DC voltages, using the small inverters. The AC voltages listed are the average AC voltage over the period of testing. As the power drops in accordance to brightness over time, the AC voltage increases gradually, compensating slightly for the drop in brightness. These figures give a good estimation of real-world performance. Application technique, ambient conditions, panel dimensions and actual electronics used will all have an effect. Running at higher voltages and frequencies will give higher brightness at the expense of faster material degradation.

LumiLor Colour	Voltage A/C +/- 5%	Frequency Hz +/- 5%	Chromaticity *		24 Hour Lum. Cd/m2	Maintenance ** %	Half-Life Hours	Luminance								% 24 Hr Lum @5000 Hours
			X	Y				@600 Hours	@1200 Hours	@2500 Hours	@3000 Hours	@3500 Hours	@4000 Hours	@450 Hours	@5000 Hours	
Orange	113	937			10.0	94	5000+	8.3	8.3	8.2	7.9	7.3	7.0	6.6	6.6	66%
Orange	138	956	0.55	0.479	14.7	100	5000+	12.5	11.6	11.1	9.8	9.9	9.2	8.9	8.4	57%
Orange	165	956			19.5	96	4800	17.0	15.3	14.0	12.3	12.1	11.2	10.2	9.7	50%
White	113	937			25.2	91	2616	17.4	15.3	12.9	11.4	11.1	10.2	9.2	8.6	34%
White	138	956	0.276	0.336	35.4	90	1728	23.6	19.4	15.6	14.1	13.5	12.0	11.3	10.0	28%
White	165	956			51.5	86	1176	32.2	25.7	19.4	16.7	15.9	14.2	12.5	10.9	21%
Aqua	113	937			30.7	89	4104	20.4	17.9	16.9	16.0	15.9	15.4	13.6	13.4	44%
Aqua	138	956	0.179	0.284	44.3	92	3816	30.8	27.3	23.9	23.0	22.9	21.0	20.0	18.1	41%
Aqua	165	956			68.4	90	3048	48.6	41.7	34.5	32.7	31.7	29.7	26.0	23.8	35%
Blue	113	937			42.5	86	840	23.5	19.8	13.9	12.0	11.2	9.9	8.1	7.5	18%
Blue	138	956	0.119	0.251	56.2	87	744	29.6	22.0	15.2	13.0	12.2	10.5	9.0	7.7	14%
Blue	165	956			78.9	81	552	37.7	26.0	17.0	14.2	12.8	10.9	9.0	7.7	10%
Green	113	937			66.3	91	-	47.0	39.2	-	-	-	-	-	-	-
Green	138	956	0.224	0.308	106.7	93	2400	74.4	64.1	50.5	45.5	43.5	39.1	35.4	31.6	30%
Green	165	956			140.0	91	1680	95.6	79.6	59.7	52.6	49.7	44.8	39.3	34.1	24%

Notes:

* Chromacity values at 1200 Hours

** Maintenance % = 100% X 96 Hours Luminance / 24 Hour Luminance

Measurements taken with SM208 Luminance Meter.

Inverters are stock small form from China

24 Hour Lum. = 24 Hours Luminance

Cd/m2 = Candela per metre squared.