

Electroluminescent Wires

olar Light 3

WANYU(International) Technology Development Co.,Ltd concentrates on researching the core technology of Electroluminescent Wire (EL Wire). We have been experimenting with some new high polymer materials and achieved breakthroughs in the core technology of EL Wire. The new generation of EL wire -'Polar Light3' is available NOW!

Improved performances of 'Polar Light3'EL wire:

1. Higher Brightness

Brightness of 'Polar Light 3'is more than double that of 'Polar Light2'. It generates nicer light. However, it can be used in lumination fields which do not require high brightness.

2. Lower Voltage in application

'Polar Light 3' EL wire requires low voltage(40V).It is thus safer for user and compliant with a great range of applications.

3.Easy Bend-forming and Stay the Shape

'<u>Polar Light 3' EL wire has</u> a thick and hard core wire inside so it does not require any additional support.

4. Better Flexure Endurance

'Polar Light 3' is of a minimum bending diameter of 10mm ,you can use it to produce many complex patterns and shapes.

5. Longer Lifetime

*Specification

Diameter: 2,6mm Model:WY-ELPL3-W

Color:Blue green/Blue/Lime green/Grass green/Yellow/Orange/Red/Pink/Purple/White

*Physical Feature

Input Voltage: 40~110VAC Twisting Angle: 30°/M Operating Temperature: -10°C+60°C Storage Temperature: +5°C+35°C

Input Frequency: 400~3000Hz Bending diameter: >10mm Operating Humidity: <60% Storage Humidity: <30%

Electrical Current: <150 mA Stretching Force: < 1.5Kg Lifetime: 3000~6000Hrs Storage time: 2 years

*Please choose the Input Voltage and Frequency according to the requirement of Brightness and lifetime.

*The data of Lifetime is for reference only. Lifetime would be affected by many factors, such as voltage, frequency, working time, temperature, humidity etc.

Capacitance(nF / meter)

Voltage	Frequency(Hz)			
(VAC)	400	800	1500	3000
50	10.39	10.29	10.20	10.10
70	10.90	10.71	10.55	10.46
90	11.49	11.21	10.90	10.80
110	11.99	11.71	11.25	11.15

Power Consumption(mW / meter)

Voltage	Frequency(Hz)			
(VAC)	400	800	1500	3000
50	59	112.5	205.5	412.5
70	121.8	243.6	415.8	831.6
90	208.8	407.7	702	1404
110	330	643.5	1089	2178

Ohmic Resistance(KOhm / meter)

Voltage	Frequency(Hz)			
(VAC)	400	800	1500	3000
50	308	178	113	80
70	240	133	105	71
90	216	120	98	62
110	205	102	92	50

Current Consumption (mA/meter)

Voltage	Frequency(Hz)			
(VAC)	400	800	1500	3000
50	1.18	2.25	4.11	8.25
70	1.74	3.48	5.94	11.88
90	2.32	4.53	7.80	15.50
110	3.01	5.85	9.90	19.80



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Brightness Feature

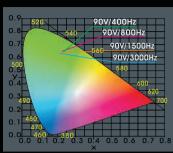
Lime green(G1)



Chromaticity Coordinates					
Vol(VAC)	Chromaticit	y Coordinates			
/Fre(Hz)	X	Υ			
90/400	0.2404	0.6504			
90/800	0.2340	0.6518			
90/1500	0.2274	0.6497			
90/3000	0.2246	0.6433			

Initial Reference (cd/m²)

Vol(VAC)	Frequency(Hz)				
	400	800	1500	3000	
50	11.84	18.40	24.64	31.68	
70	29.12	46.88	65.12	89.44	
90	53.12	84.80	123.04	169.60	
110	79.36	133.76	197.44	279.84	



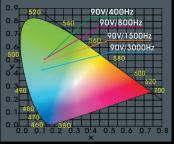
Grass green(G2)



em e				
Vol(VAC)	Chromaticity Coordinates			
/Fre(Hz)	Х Ү			
90/400	0.1520	0.5429		
90/800	0.1443	0.5148		
90/1500	0.1413	0.4806		
90/3000	0.1398	0.4239		

Initial Reference (cd/m²

Vol(VAC)	Frequency(Hz)			
TOI(TAC)	400	800	1500	3000
50	8.80	13.44	17.92	24.62
70	21.76	33.12	46.88	66.24
90	38.24	60.16	87.84	129.60
110	57.28	94.88	141.92	203.52



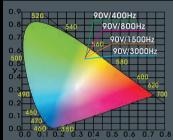
Yellow(Y1)



Vol(VAC)	Chromaticity Coordinates			
/Fre(Hz)	X	Y		
90/400	0.3576	0.5800		
90/800	0.3550	0.5790		
90/1500	0.3544	0.5757		
90/3000	0.3550	0.5633		

nitial Reference (cd/m²

Vol(VAC)	Frequency(Hz)			
	400	800	1500	3000
50	8.80	21.44	38.72	57.60
70	12.96	33.12	61.28	95.36
90	17.44	46.72	88.16	141.44
110	24.16	66.88	130.24	206.56



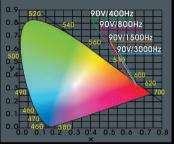
Red(R3)



cirrollaricity coordinates				
Vol(VAC)	Chromaticity Coordinates			
/Fre(Hz)	Х Ү			
90/400	0.6379	0.3441		
90/800	0.6462	0.3418		
90/1500	0.6522	0.3401		
90/3000	0.6552	0.3389		

nitial Reference (cd/m²)

Time to the state of the state				
Vol(VAC)	Frequency(Hz)			
	400	800	1500	3000
50	5.92	8.32	11.20	16.64
70	9.76	14.72	21.12	32.80
90	13.76	22.56	32.48	53.28
110	17.60	29.76	46.56	73.12



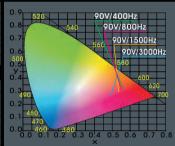
Pink(P2)



Chromaticity Coordinates					
Vol(VAC)	Chromaticity Coordinates				
/Fre(Hz)	X	Υ			
90/400	0.5660	0.3322			
90/800	0.5508	0.3172			
90/1500	0.5346	0.3007			
90/3000	0.4989	0.2758			

nitial Reference (cd/m²)

Vol(VAC)	Frequency(Hz)			
TOTOTACI	400	800	1500	3000
50	3.68	4.95	6.24	8.16
70	7.52	11.36	14.72	21.44
90	12.64	19.52	26.88	41.92
110	18.24	29.76	43.84	65.44



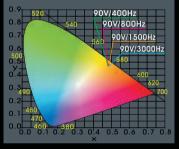
Orange(01)



Vol(VAC)	Chromaticity Coordinate		
/Fre(Hz)	X	Υ	
90/400	0.4812	0.4758	
90/800	0.4815	0.4772	
90/1500	0.4821	0.4773	
90/3000	0.4843	0.4748	

nitial Reference (cd/m²

Frequency(Hz)			
400	800	1500	3000
8.48	11.52	16.70	20.96
17.60	27.52	38.40	53.92
29.92	48.32	69.76	102.88
45.12	73.44	111.52	168.96
	8.48 17.60 29.92	400 800 8.48 11.52 17.60 27.52 29.92 48.32	400 800 1500 8.48 11.52 16.70 17.60 27.52 38.40 29.92 48.32 69.76



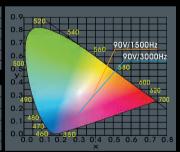
Purple(P1)



Chromaticity Coordinates					
Vol(VAC)	Chromaticit	y Coordinates			
/Fre(Hz)	X	Υ			
90/400	/ /				
90/800					
90/1500	0.3546	0.2089			
90/3000	0.3129	0.1710			

nitial Reference (cd/m²

Vol(VAC)	Frequency(Hz)			
voi(vac)	400	800	1500	3000
50			3.36	4.32
70	/	/	7.04	9.92
90			12.01	17.12
110		/	17.44	26.40

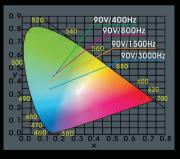


Blue green(TG3)



cin omancin, coordinatos				
Vol(VAC)	Chromaticity Coordinates			
/Fre(Hz)	X	Y		
90/400	0.1911	0.4730		
90/800	0.1759	0.4430		
90/1500	0.1686	0.4003		
90/3000	0.1618	0.3409		

itial Reference (cd/m²)						
Vol(VAC)	Frequency(Hz)					
TOTAL	400	800	1500	3000		
50	15.68	23.20	31.36	41.12		
70	36.62	56.64	79.85	112.16		
90	49.92	103.35	147.20	213.76		
110	95 68	157 12	235 04	328 32		



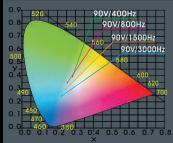
Red glow white(W1)



Chromaticity Coordinates						
Vol(VAC)	Chromaticity Coordinates					
/Fre(Hz)	X	Υ				
90/400	0.2804	0.3936				
90/800	0.2590	0.3419				
90/1500	0.2399	0.2907				
90/3000	0.2244	0.2420				

itial Reference (cd/m²

Vol(VAC)	Frequency(Hz)			
VOI(VAC)	400	800	1500	3000
50	18.88	24.96	30.72	37.92
70	35.84	53.12	69.12	62.52
90	58.40	86.24	114.72	146.56
110	80.48	137.76	166.08	224.95



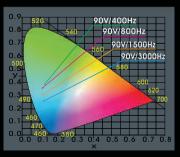
Blue(B1)



Chromaticity Coordinates				
Vol(VAC)	Chromaticity Coordinates			
/Fre(Hz)	X	Υ		
90/400	0.1281	0.3914		
90/800	0.1190	0.3559		
90/1500	0.1198	0.3134		
00/3000	0 1234	0.2671		

Initial Reference (cd/m

Vol(VAC)	Frequency(Hz)			
TOI(TAC)	400	800	1500	3000
50	5.92	11.36	20.32	28.32
70	12.48	27.84	46.88	76.80
90	21.44	48.48	81.60	148.32
110	31.84	78.72	119.04	214.72



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