

Electroluminescent Wires

Polar 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

'Polar Light 3' EL wire has 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

Input Frequency: 400~3000Hz

Electrical Current: <150 mA

Twisting Angle: 30°/M

Bending diameter: >10mm

Stretching Force:<1.5Kg

Operating Temperature: -10°C+60°C

Operating Humidity: <60%

Lifetime: 3000~6000Hrs

Storage Temperature: +5°C+35°C

Storage Humidity: <30%

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 (VAC)	Frequency(Hz)			
	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 (VAC)	Frequency(Hz)			
	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 (VAC)	Frequency(Hz)			
	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 (VAC)	Frequency(Hz)			
	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)

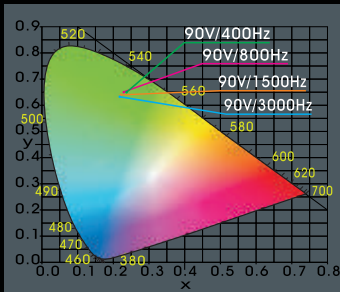


Chromaticity Coordinates

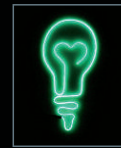
Vol(VAC) /Fre(Hz)	Chromaticity Coordinates	
	X	Y
90/400	0.2404	0.6504
90/800	0.2340	0.6518
90/1500	0.2274	0.6497
90/3000	0.2246	0.6433

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)

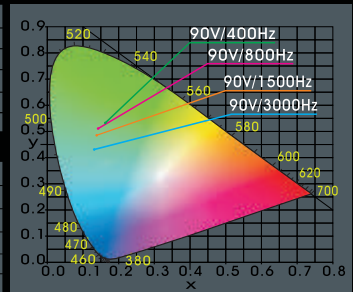


Chromaticity Coordinates

Vol(VAC) /Fre(Hz)	Chromaticity Coordinates	
	X	Y
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)			
	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)

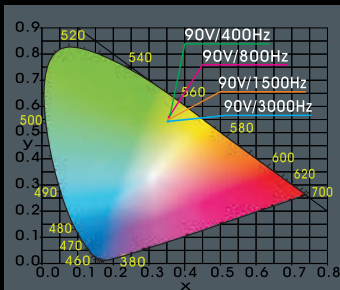


Chromaticity Coordinates

Vol(VAC) /Fre(Hz)	Chromaticity Coordinates	
	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

Initial 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)

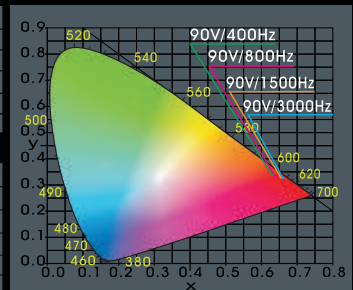


Chromaticity Coordinates

Vol(VAC) /Fre(Hz)	Chromaticity Coordinates	
	X	Y
90/400	0.6379	0.3441
90/800	0.6462	0.3418
90/1500	0.6522	0.3401
90/3000	0.6552	0.3389

Initial Reference (cd/m²)

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)

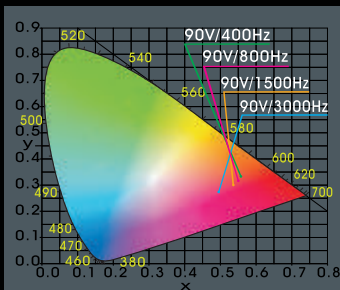


Chromaticity Coordinates

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

Initial Reference (cd/m²)

Vol(VAC)	Frequency(Hz)			
	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(O1)

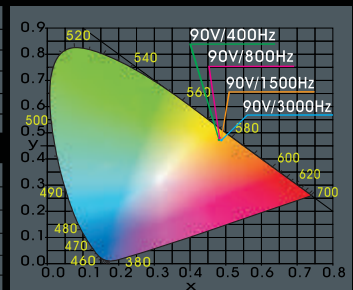


Chromaticity Coordinates

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

Initial Reference (cd/m²)

Vol(VAC)	Frequency(Hz)			
	400	800	1500	3000
50	8.48	11.52	16.70	20.96
70	17.60	27.52	38.40	53.92
90	29.92	48.32	69.76	102.88
110	45.12	73.44	111.52	168.96



Purple(P1)

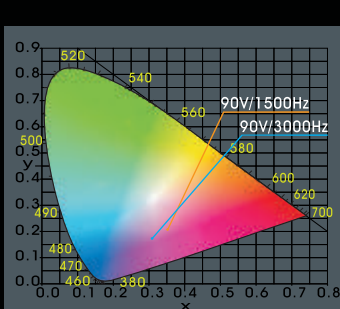


Chromaticity Coordinates

Vol(VAC) /Fre(Hz)	Chromaticity Coordinates	
	X	Y
90/400	—	—
90/800	—	—
90/1500	0.3546	0.2089
90/3000	0.3129	0.1710

Initial Reference (cd/m²)

Vol(VAC)	Frequency(Hz)			
	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)

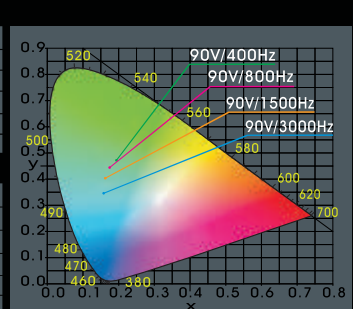


Chromaticity Coordinates

Vol(VAC) /Fre(Hz)	Chromaticity Coordinates	
	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

Initial Reference (cd/m²)

Vol(VAC)	Frequency(Hz)			
	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)

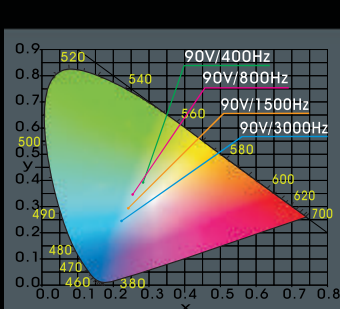


Chromaticity Coordinates

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

Initial Reference (cd/m²)

Vol(VAC)	Frequency(Hz)			
	400	800	1500	3000
50	18.88	24.96	30.72	37.92
70	35.84	53.12	69.12	82.52
90	58.40	86.24	114.72	146.56
110	80.48	137.76	166.08	224.95



Blue(B1)



Chromaticity Coordinates

Vol(VAC) /Fre(Hz)	Chromaticity Coordinates	
	X	Y
90/400	0.1281	0.3914
90/800	0.1190	0.3559
90/1500	0.1198	0.3134
90/3000	0.1234	0.2671

Initial Reference (cd/m²)

Vol(VAC)	Frequency(Hz)			
	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

