

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P236285

Luminaire Tested: **4SWLED-52HL-LC-UNV-L850-CD1-U**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P236285  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26870)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SWLED-52HL-LC-UNV-L850-CD1-U  
Description: METALUX SWLED LINEAR LUMINAIRE  
4FT FIXTURE WITH 2 ROW LED, CLEAR LENS  
Light Source: (224) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

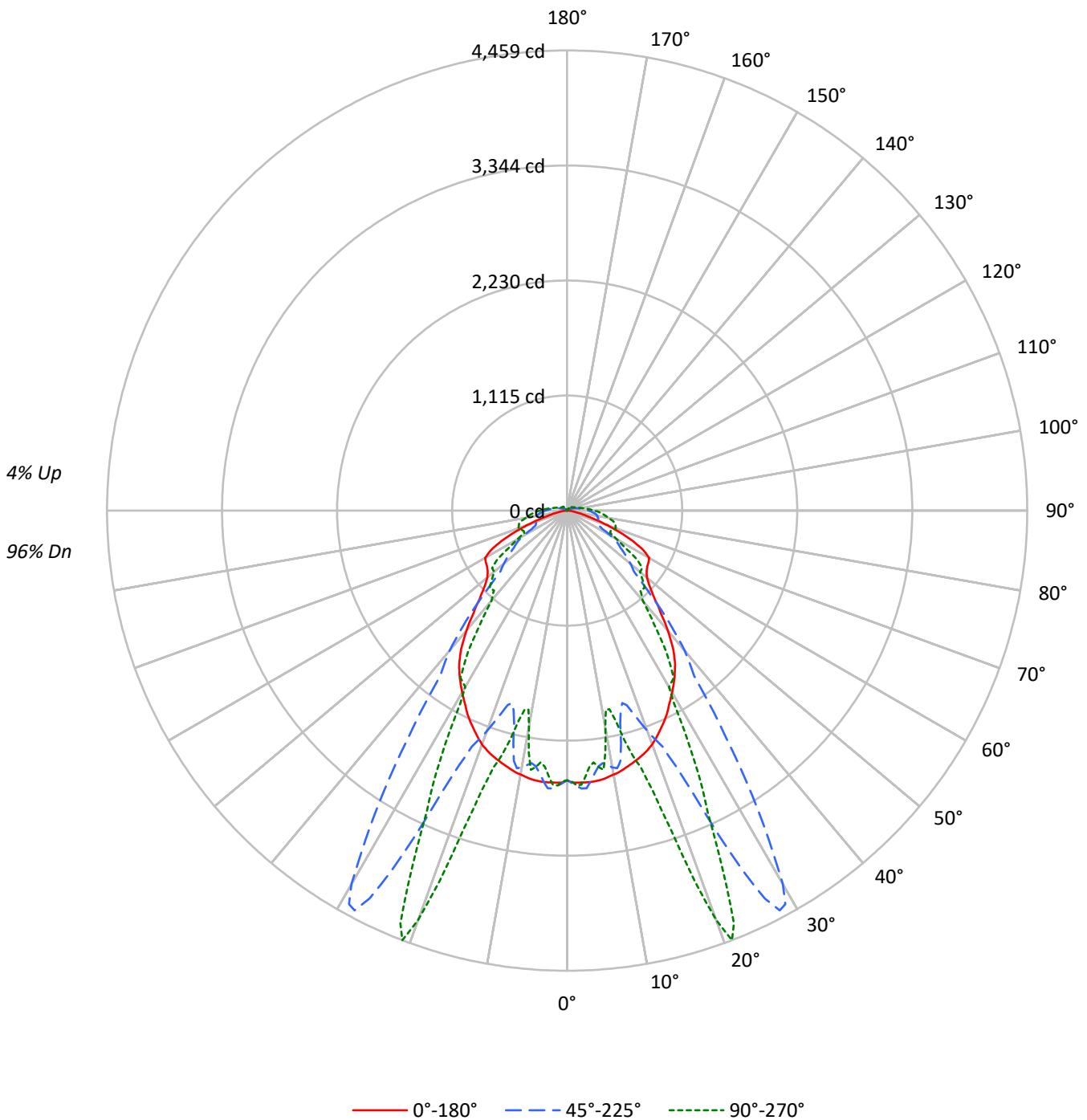
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7122.0 lumens  
Efficiency: N/A  
Efficacy: 149.3 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.15 / 1.24  
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')  
CIE Type: Direct  
  
Input Watts (W): 47.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96				
1	108	103	99	96	105	101	97	94	96	93	90	91	89	86	87	85	83	81				
2	99	91	85	80	96	89	83	78	85	80	76	81	77	74	78	74	71	69				
3	91	81	74	68	88	79	72	67	76	70	65	73	68	63	70	65	62	59				
4	84	73	65	58	81	71	64	58	68	62	56	65	60	55	63	58	54	52				
5	78	66	57	51	75	64	56	50	62	55	49	59	53	49	57	52	48	46				
6	72	59	51	45	70	58	50	45	56	49	44	54	48	43	52	47	42	40				
7	67	54	46	40	65	53	45	40	51	44	39	49	43	39	48	42	38	36				
8	62	50	41	36	61	49	41	36	47	40	35	46	39	35	44	38	34	32				
9	58	46	38	32	57	45	37	32	43	37	32	42	36	31	41	35	31	29				
10	55	42	35	29	53	41	34	29	40	34	29	39	33	29	38	32	28	27				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	18751	18751	18751
5°	18947	18477	17347
10°	18803	17487	14501
15°	18535	13762	16539
20°	18173	15648	28250
25°	17424	24004	21587
30°	16525	29496	13348
35°	15581	19434	11548
40°	13781	13253	8053
45°	11666	8744	7756
50°	10789	6593	7038
55°	11255	5528	6646
60°	12383	4691	4741
65°	11088	3479	4308
70°	7844	3658	5088
75°	4512	4080	5443
80°	2849	4512	5222
85°	1540	4826	5137



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.6	3.4
10°-20°	688.0	9.7
20°-30°	1355.6	19.0
30°-40°	1398.7	19.6
40°-50°	1175.4	16.5
50°-60°	866.9	12.2
60°-70°	491.5	6.9
70°-80°	352.9	5.0
80°-90°	239.2	3.4
90°-100°	142.9	2.0
100°-110°	74.6	1.0
110°-120°	41.8	0.6
120°-130°	24.5	0.3
130°-140°	16.9	0.2
140°-150°	6.2	0.1
150°-160°	1.8	0.0
160°-170°	0.4	0.0
170°-180°	0.0	0.0
0°-30°	2288.2	32.1
0°-40°	3687.0	51.8
0°-60°	5729.3	80.4
0°-90°	6812.9	95.7
90°-120°	259.3	3.6
90°-150°	306.9	4.3
90°-180°	309.0	4.3
0°-180°	7122.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2613	2613	2613	2613	2613	
5°	2639	2678	2632	2509	2490	251
15°	2519	2410	2002	2254	2458	710
25°	2238	1997	3457	3882	3221	1027
35°	1824	2247	2686	1820	1677	1128
45°	1192	3000	1121	1012	1062	939
55°	946	1683	632	797	826	855
65°	704	676	337	413	465	682
75°	185	272	312	448	481	221
85°	26	114	260	318	340	34
90°	2	83	207	256	264	2
95°	1	66	162	188	196	1
105°	1	34	85	101	108	1
115°	2	16	47	66	74	2
125°	2	7	27	43	53	2
135°	2	4	20	42	51	1
145°	2	2	8	15	20	1
155°	3	3	4	4	6	1
165°	3	3	3	1	2	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P236285

CATALOG NUMBER: 4SWLED-52HL-LC-UNV-L850-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2613.0	2613.0	2613.0	2613.0	2613.0	2613.0	2613.0	2613.0	2613.0	2613.0	2613.0
1°	2635.2	2633.4	2622.8	2617.5	2616.6	2614.8	2615.7	2617.5	2621.9	2621.9	2642.2
2°	2637.8	2636.9	2629.9	2626.3	2626.3	2626.3	2628.1	2633.4	2636.9	2637.8	2668.8
3°	2638.7	2639.6	2635.2	2632.5	2638.7	2638.7	2641.4	2648.4	2660.8	2665.2	2697.1
4°	2640.5	2644.0	2641.4	2640.5	2652.9	2661.7	2667.0	2676.7	2684.7	2685.6	2698.0
5°	2638.7	2643.1	2643.1	2653.7	2670.5	2677.6	2682.0	2688.2	2675.9	2642.2	2632.5
6°	2636.9	2644.0	2648.4	2667.9	2682.9	2689.1	2690.0	2662.6	2629.9	2590.9	2559.1
7°	2632.5	2639.6	2653.7	2679.4	2689.1	2688.2	2673.2	2616.6	2559.1	2509.6	2495.4
8°	2621.9	2632.5	2660.8	2682.0	2675.0	2647.5	2619.2	2557.3	2503.4	2468.0	2470.6
9°	2609.5	2621.0	2660.8	2675.9	2641.4	2602.4	2567.0	2490.1	2455.6	2450.3	2498.1
10°	2597.1	2615.7	2661.7	2662.6	2587.4	2547.6	2498.9	2446.7	2445.9	2475.1	2527.2
11°	2586.5	2608.6	2656.4	2636.0	2541.4	2497.2	2447.6	2432.6	2467.1	2499.8	2544.0
12°	2571.5	2601.5	2644.9	2600.7	2482.1	2439.7	2414.0	2442.3	2483.9	2514.0	2480.4
13°	2553.8	2587.4	2622.8	2547.6	2433.5	2404.3	2414.0	2460.9	2487.4	2469.7	2320.3
14°	2535.2	2578.5	2596.2	2500.7	2389.2	2396.3	2427.3	2464.4	2468.9	2315.8	2128.3
15°	2519.3	2567.0	2567.9	2448.5	2374.2	2410.5	2434.4	2452.1	2382.2	2167.2	2001.8
16°	2500.7	2554.7	2537.0	2411.4	2388.4	2422.0	2435.2	2420.2	2217.6	2008.0	1939.9
17°	2482.1	2537.0	2498.1	2378.6	2405.2	2423.7	2422.9	2328.2	2095.6	1937.2	1970.0
18°	2460.9	2514.9	2462.7	2355.6	2412.2	2413.1	2392.8	2220.3	1973.5	1923.1	2062.0
19°	2437.0	2489.2	2424.6	2341.5	2403.4	2383.9	2330.9	2100.0	1926.6	1977.0	2166.3
20°	2411.4	2460.0	2390.1	2343.3	2381.3	2337.9	2257.4	2006.2	1924.0	2063.7	2273.4
21°	2379.5	2425.5	2357.4	2352.1	2340.6	2264.5	2163.7	1951.4	1966.4	2144.2	2370.7
22°	2345.0	2389.2	2331.8	2352.1	2278.7	2193.8	2079.6	1929.3	2039.0	2228.3	2467.1
23°	2307.9	2355.6	2307.9	2340.6	2202.6	2115.0	2011.5	1948.7	2091.1	2310.5	2683.8
24°	2274.3	2317.6	2291.9	2313.2	2134.5	2048.7	1969.1	1991.2	2139.8	2403.4	2986.3
25°	2238.0	2281.3	2277.8	2268.9	2072.6	1997.4	1960.2	2025.7	2204.4	2630.7	3456.9
26°	2198.2	2242.4	2264.5	2204.4	2025.7	1970.8	1972.6	2051.3	2291.1	2916.5	3880.6
27°	2155.7	2206.1	2238.9	2133.6	1993.0	1968.2	1998.3	2069.9	2491.9	3364.1	4218.6
28°	2113.3	2164.6	2202.6	2062.8	1973.5	1985.9	2008.9	2109.7	2748.4	3748.8	4387.5
29°	2072.6	2125.6	2161.9	2008.0	1970.8	2008.0	2007.1	2227.4	3147.3	4080.6	4361.0
30°	2036.3	2086.7	2115.0	1971.7	1985.0	2010.6	2006.2	2422.0	3487.9	4250.4	4177.9
32.5°	1933.7	1973.5	1974.4	1939.0	2008.0	2003.6	2161.9	3201.3	4057.6	4082.3	3445.4
35°	1824.0	1836.4	1854.1	1962.0	2023.0	2246.8	2774.9	3709.0	4022.2	3394.1	2685.6
37.5°	1687.8	1686.0	1805.4	1978.8	2322.9	2840.4	3262.3	3789.5	3444.6	2628.1	2022.1
40°	1516.2	1535.6	1796.6	2045.1	2808.5	3095.1	3305.7	3551.6	2670.5	2025.7	1771.8
42.5°	1341.0	1429.5	1796.6	2316.7	2903.2	3061.5	3275.6	2966.0	2115.0	1727.6	1448.9
45°	1191.5	1373.8	1809.8	2541.4	2810.3	3000.5	3034.1	2368.0	1753.2	1337.5	1120.8
47.5°	1081.0	1321.6	1924.8	2453.8	2713.0	2759.0	2632.5	1976.1	1308.3	982.8	878.4
50°	1008.4	1259.6	1974.4	2281.3	2511.3	2453.8	2267.2	1457.8	903.2	795.2	802.3
52.5°	970.4	1246.4	1839.0	2120.3	2256.6	2132.7	1787.7	986.3	728.0	712.1	716.5
55°	946.5	1206.6	1640.9	1900.1	1937.2	1683.4	1319.8	742.2	622.7	613.9	631.6
57.5°	935.0	1093.3	1445.4	1610.8	1521.5	1295.9	1002.2	566.1	506.9	524.6	577.6
60°	917.3	974.8	1160.6	1266.7	1211.9	1026.1	759.9	450.3	440.5	473.2	497.1
62.5°	834.2	836.8	812.0	1000.5	991.6	832.4	600.6	385.7	368.9	378.6	383.9
65°	704.1	649.3	561.7	822.7	818.2	675.8	478.6	306.1	298.1	320.2	337.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
67.5°	559.1	467.9	421.1	658.1	650.2	535.2	383.0	263.6	278.6	301.6	326.4
70°	411.3	344.1	331.7	518.4	512.2	429.0	321.1	244.1	268.9	292.8	318.4
72.5°	280.4	254.8	261.0	391.0	400.7	343.2	272.5	231.8	253.9	281.3	320.2
75°	184.9	186.6	200.8	287.5	306.9	272.5	230.0	215.8	239.7	272.5	312.3
77.5°	126.5	132.7	149.5	206.1	229.1	212.3	195.5	199.0	224.7	262.7	304.3
80°	83.2	89.3	107.0	146.0	169.8	169.0	168.1	184.9	214.1	254.8	295.4
82.5°	50.4	56.6	73.4	103.5	128.3	136.2	146.8	171.6	207.0	252.1	284.8
85°	26.5	32.7	48.7	74.3	100.0	114.1	129.1	161.0	203.5	242.4	260.1
87.5°	10.6	16.8	31.8	54.0	81.4	97.3	115.0	153.0	197.3	222.9	232.6
90°	1.8	8.0	20.3	40.7	67.2	83.2	102.6	146.8	183.1	194.6	207.0
92.5°	0.9	4.4	14.2	31.0	56.6	73.4	93.8	136.2	160.1	171.6	183.1
95°	0.9	2.7	10.6	24.8	48.7	66.3	85.8	119.4	137.1	148.6	161.9
97.5°	0.9	2.7	8.0	20.3	44.2	60.2	77.0	100.8	115.9	129.1	140.6
100°	0.9	1.8	7.1	17.7	38.9	51.3	63.7	82.3	95.5	109.7	120.3
102.5°	0.9	1.8	6.2	15.9	33.6	43.3	52.2	66.3	80.5	92.0	102.6
105°	0.9	1.8	5.3	14.2	27.4	34.5	41.6	54.8	67.2	77.8	84.9
107.5°	0.9	1.8	4.4	11.5	22.1	28.3	34.5	46.0	56.6	64.6	71.7
110°	0.9	0.9	3.5	9.7	18.6	23.9	28.3	38.0	46.9	54.8	61.0
112.5°	1.8	1.8	3.5	8.0	15.0	19.5	23.9	31.8	39.8	46.9	53.1
115°	1.8	1.8	2.7	6.2	12.4	15.9	19.5	26.5	33.6	40.7	46.9
117.5°	1.8	1.8	2.7	5.3	9.7	13.3	15.9	22.1	28.3	35.4	41.6
120°	1.8	1.8	1.8	4.4	8.8	10.6	13.3	18.6	24.8	31.0	36.3
122.5°	1.8	1.8	1.8	3.5	7.1	8.8	10.6	15.9	21.2	26.5	31.8
125°	1.8	1.8	1.8	2.7	5.3	7.1	8.8	13.3	17.7	23.0	27.4
127.5°	1.8	1.8	1.8	2.7	4.4	6.2	7.1	10.6	15.0	18.6	23.9
130°	1.8	1.8	1.8	1.8	3.5	4.4	6.2	8.8	12.4	16.8	21.2
132.5°	1.8	1.8	1.8	1.8	3.5	4.4	5.3	8.0	12.4	15.9	20.3
135°	1.8	1.8	1.8	1.8	2.7	3.5	5.3	8.0	11.5	15.9	20.3
137.5°	1.8	1.8	1.8	1.8	2.7	3.5	4.4	7.1	10.6	15.0	18.6
140°	1.8	1.8	1.8	1.8	1.8	2.7	3.5	6.2	8.8	11.5	15.0
142.5°	1.8	1.8	1.8	1.8	1.8	1.8	2.7	4.4	6.2	8.8	11.5
145°	1.8	1.8	1.8	1.8	1.8	1.8	2.7	3.5	4.4	6.2	8.0
147.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.7	3.5	4.4	6.2
150°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.7	2.7	3.5	4.4
152.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.5	3.5
155°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.5
157.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
160°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
162.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
165°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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CATALOG NUMBER: 4SWLED-52HL-LC-UNV-L850-CD1-U

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2613.0	2613.0	2613.0	2613.0	2613.0	2613.0	2613.0	2613.0	2613.0	2613.0
1°	2649.3	2645.8	2643.1	2639.6	2636.0	2635.2	2633.4	2632.5	2625.4	2626.3
2°	2675.0	2677.6	2675.9	2672.3	2675.0	2671.4	2669.7	2666.1	2663.5	2664.4
3°	2705.9	2705.0	2697.1	2687.4	2681.2	2681.2	2667.9	2662.6	2646.7	2660.8
4°	2678.5	2659.9	2629.9	2615.7	2602.4	2600.7	2584.7	2569.7	2561.7	2575.9
5°	2604.2	2576.8	2538.7	2523.7	2508.7	2510.4	2497.2	2487.4	2481.2	2490.1
6°	2529.9	2505.1	2478.6	2462.7	2456.5	2452.1	2450.3	2452.9	2454.7	2453.8
7°	2477.7	2472.4	2469.7	2476.8	2483.0	2483.0	2493.6	2502.5	2505.1	2503.4
8°	2487.4	2505.1	2516.6	2521.1	2521.9	2523.7	2540.5	2540.5	2535.2	2537.0
9°	2527.2	2539.6	2552.0	2536.1	2505.1	2498.9	2440.6	2406.1	2357.4	2371.6
10°	2558.2	2535.2	2439.7	2360.9	2307.9	2290.2	2201.7	2162.8	2112.4	2126.5
11°	2505.1	2381.3	2237.1	2138.9	2088.5	2059.3	2001.8	1977.9	1968.2	1965.5
12°	2307.9	2163.7	2034.5	1977.9	1954.9	1946.1	1939.9	1947.0	1962.9	1967.3
13°	2128.3	2008.9	1949.6	1954.0	1965.5	1979.7	2029.2	2058.4	2086.7	2087.6
14°	1983.2	1947.0	1994.7	2054.9	2089.4	2111.5	2180.5	2228.3	2280.4	2290.2
15°	1945.2	2005.3	2118.6	2210.6	2253.9	2300.8	2391.9	2430.8	2460.0	2458.2
16°	2010.6	2114.1	2271.6	2379.5	2423.7	2454.7	2513.1	2548.5	2583.0	2588.3
17°	2120.3	2278.7	2423.7	2506.9	2538.7	2574.1	2682.0	2756.3	2819.2	2839.5
18°	2235.3	2401.6	2516.6	2651.1	2735.1	2804.1	2954.5	3091.6	3223.4	3248.2
19°	2363.6	2508.7	2700.6	2931.5	3035.0	3189.8	3457.8	3625.0	3758.6	3801.9
20°	2447.6	2676.7	2974.8	3409.2	3555.1	3726.7	3983.3	4110.6	4202.6	4223.0
21°	2595.4	2971.3	3483.5	3912.5	4060.2	4155.8	4325.6	4406.1	4429.1	4459.2
22°	2840.4	3438.4	3964.7	4276.9	4376.0	4430.9	4449.4	4389.3	4335.3	4314.1
23°	3289.7	3898.3	4283.1	4456.5	4446.8	4379.6	4228.3	4085.9	3993.0	3954.1
24°	3778.0	4252.2	4442.4	4295.5	4211.5	4068.2	3875.3	3732.0	3633.0	3585.2
25°	4123.0	4427.3	4266.3	3988.6	3881.5	3732.9	3499.4	3362.3	3265.0	3220.8
26°	4381.3	4342.4	3969.1	3650.7	3525.0	3381.7	3176.5	3099.6	3027.9	2985.5
27°	4405.2	4089.4	3653.3	3302.1	3189.8	3088.1	2934.1	2823.6	2748.4	2708.6
28°	4213.3	3794.0	3317.2	3035.9	2944.8	2820.9	2646.7	2537.9	2484.8	2424.6
29°	3968.2	3455.2	3037.6	2744.8	2645.8	2521.1	2347.7	2204.4	2169.9	2132.7
30°	3639.2	3146.4	2759.9	2433.5	2338.8	2204.4	2071.7	2024.8	2001.8	1972.6
32.5°	2865.2	2370.7	2048.7	1924.8	1896.5	1884.2	1932.8	1940.8	1939.0	1923.1
35°	2144.2	1874.4	1862.9	1844.3	1820.5	1797.5	1752.4	1726.7	1704.6	1677.2
37.5°	1831.1	1755.9	1650.6	1559.5	1518.8	1487.9	1441.0	1415.3	1394.1	1378.2
40°	1604.6	1449.8	1344.6	1280.9	1258.8	1222.5	1193.3	1177.4	1161.5	1140.2
42.5°	1295.0	1157.0	1073.9	1028.8	1015.5	1001.3	1012.8	1031.4	1040.3	1050.0
45°	996.9	934.1	953.6	995.2	1012.0	1029.7	1055.3	1060.6	1062.4	1061.5
47.5°	868.7	913.8	936.8	950.0	947.4	954.5	975.7	989.8	998.7	990.7
50°	825.3	831.5	863.3	896.1	901.4	892.5	897.0	908.5	920.8	922.6
52.5°	746.6	773.1	797.9	820.0	839.5	858.9	890.8	906.7	916.4	916.4
55°	670.5	719.2	753.7	784.6	797.0	802.3	818.2	824.4	830.6	826.2
57.5°	622.7	645.7	668.7	664.3	654.6	640.4	649.3	659.9	664.3	661.7
60°	503.3	504.2	506.9	513.9	525.4	536.1	546.7	549.3	553.7	552.9
62.5°	398.1	406.9	421.1	444.1	450.3	450.3	460.9	468.8	471.5	467.9
65°	357.4	375.1	399.8	413.1	413.1	415.8	435.2	458.2	467.1	465.3



TEST NUMBER: P236285

CATALOG NUMBER: 4SWLED-52HL-LC-UNV-L850-CD1-U

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
67.5°	349.4	380.4	392.8	411.3	425.5	439.6	459.1	472.4	480.3	483.0
70°	354.7	377.7	402.5	428.1	439.6	452.0	475.0	493.6	500.7	501.6
72.5°	353.8	383.9	408.7	439.6	452.9	464.4	481.2	488.3	490.9	490.9
75°	351.2	381.3	415.8	437.9	448.5	460.0	469.7	475.0	479.4	481.2
77.5°	339.7	372.4	389.2	409.6	416.6	421.9	434.3	443.2	449.4	450.3
80°	325.5	340.6	352.9	369.8	375.1	383.0	395.4	400.7	405.1	405.1
82.5°	298.1	308.7	322.0	339.7	349.4	357.4	367.1	370.6	373.3	374.2
85°	268.9	279.5	296.3	311.4	318.4	325.5	334.4	339.7	341.4	339.7
87.5°	242.4	257.4	273.3	284.8	287.5	291.0	298.1	302.5	304.3	306.1
90°	218.5	233.5	245.9	255.6	255.6	259.2	262.7	263.6	261.8	263.6
92.5°	197.3	207.0	214.1	218.5	218.5	221.1	225.6	227.3	226.5	227.3
95°	171.6	178.7	182.2	184.9	187.5	191.1	194.6	195.5	195.5	196.4
97.5°	148.6	153.9	157.5	160.1	161.0	163.6	163.6	164.5	164.5	165.4
100°	128.3	133.6	134.5	133.6	134.5	135.3	136.2	138.0	138.9	139.8
102.5°	108.8	113.2	115.0	115.9	116.8	118.5	120.3	121.2	123.0	123.0
105°	90.2	95.5	99.1	100.8	100.8	102.6	104.4	106.1	107.0	107.9
107.5°	77.0	82.3	86.7	88.5	90.2	91.1	92.9	94.6	95.5	96.4
110°	66.3	71.7	77.0	80.5	81.4	83.2	84.9	86.7	87.6	88.5
112.5°	59.3	63.7	68.1	71.7	73.4	75.2	77.0	78.7	80.5	80.5
115°	52.2	57.5	61.0	64.6	66.3	67.2	69.9	72.5	73.4	74.3
117.5°	46.9	51.3	54.8	58.4	60.2	61.9	63.7	65.5	67.2	67.2
120°	41.6	46.0	49.5	52.2	54.0	54.8	57.5	59.3	60.2	61.0
122.5°	36.3	40.7	43.3	46.9	47.8	49.5	52.2	54.0	54.8	55.7
125°	31.8	35.4	38.9	42.5	43.3	45.1	48.7	50.4	52.2	53.1
127.5°	28.3	31.8	36.3	39.8	41.6	44.2	47.8	50.4	52.2	53.1
130°	25.7	31.0	35.4	39.8	42.5	44.2	48.7	52.2	54.0	54.0
132.5°	25.7	31.0	36.3	40.7	43.3	45.1	49.5	53.1	54.8	55.7
135°	24.8	29.2	34.5	38.9	41.6	43.3	46.9	49.5	51.3	51.3
137.5°	22.1	25.7	29.2	32.7	35.4	37.2	39.8	41.6	43.3	43.3
140°	17.7	20.3	23.0	25.7	27.4	29.2	31.8	32.7	34.5	34.5
142.5°	13.3	15.0	17.7	19.5	20.3	22.1	23.9	25.7	26.5	26.5
145°	9.7	11.5	12.4	14.2	15.0	15.9	17.7	18.6	19.5	19.5
147.5°	7.1	8.0	8.8	10.6	10.6	11.5	13.3	14.2	14.2	14.2
150°	5.3	6.2	7.1	7.1	8.0	8.0	9.7	10.6	10.6	10.6
152.5°	4.4	4.4	5.3	5.3	6.2	6.2	7.1	8.0	8.0	8.0
155°	3.5	3.5	3.5	3.5	4.4	4.4	5.3	5.3	6.2	6.2
157.5°	2.7	2.7	2.7	2.7	2.7	2.7	3.5	3.5	4.4	4.4
160°	2.7	2.7	1.8	1.8	1.8	1.8	2.7	2.7	2.7	2.7
162.5°	2.7	1.8	1.8	1.8	0.9	1.8	1.8	1.8	1.8	1.8
165°	1.8	1.8	1.8	0.9	0.9	0.9	0.9	0.9	0.9	1.8
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P236285

CATALOG NUMBER: 4SWLED-52HL-LC-UNV-L850-CD1-U

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)