

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: P236293

Luminaire Tested: **4SWLED-64HL-LC-UNV-L840-CD1-U**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P236293  
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-64HL-LC-UNV-L840-CD1-U  
Description: METALUX SWLED LINEAR LUMINAIRE  
4FT FIXTURE WITH 2 ROW LED, CLEAR LENS  
Light Source: (224) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

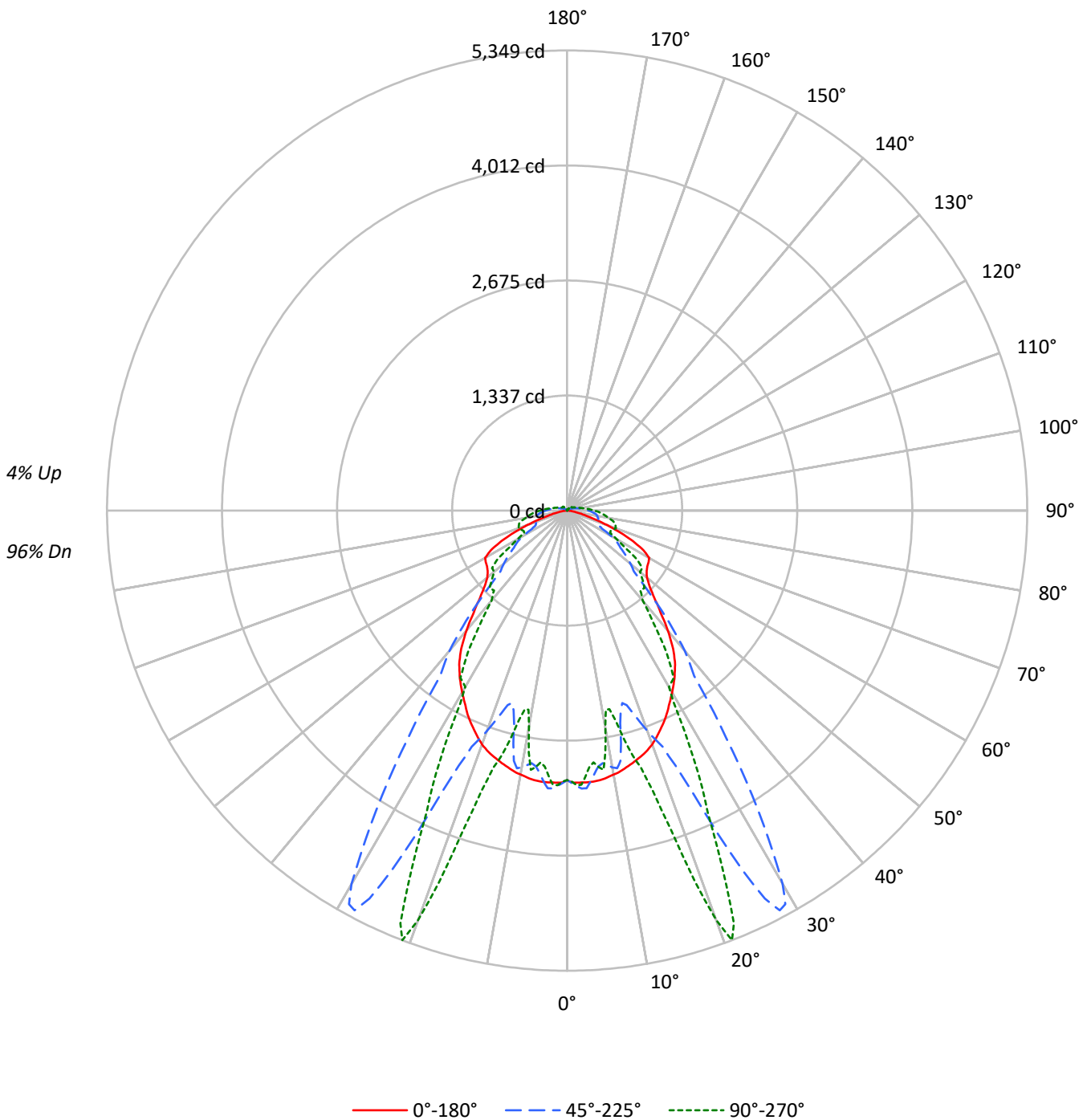
Lumens per Lamp: N/A  
Luminaire Lumens: 8543.0 lumens  
Efficiency: N/A  
Efficacy: 137.8 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.15 / 1.24  
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')  
CIE Type: Direct

Input Watts (W): 62  
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°	22492	22492	22492
5°	22728	22164	20808
10°	22555	20977	17394
15°	22233	16508	19839
20°	21799	18770	33887
25°	20900	28794	25894
30°	19822	35381	16012
35°	18689	23311	13852
40°	16531	15897	9660
45°	13995	10489	9304
50°	12941	7909	8442
55°	13501	6630	7971
60°	14853	5627	5687
65°	13301	4173	5167
70°	9410	4388	6102
75°	5413	4893	6528
80°	3414	5413	6265
85°	1848	5789	6162



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	293.4	3.4
10°-20°	825.3	9.7
20°-30°	1626.1	19.0
30°-40°	1677.8	19.6
40°-50°	1409.9	16.5
50°-60°	1039.9	12.2
60°-70°	589.6	6.9
70°-80°	423.3	5.0
80°-90°	287.0	3.4
90°-100°	171.4	2.0
100°-110°	89.5	1.0
110°-120°	50.1	0.6
120°-130°	29.3	0.3
130°-140°	20.3	0.2
140°-150°	7.4	0.1
150°-160°	2.1	0.0
160°-170°	0.5	0.0
170°-180°	0.0	0.0
0°-30°	2744.8	32.1
0°-40°	4422.6	51.8
0°-60°	6872.4	80.4
0°-90°	8172.3	95.7
90°-120°	311.1	3.6
90°-150°	368.1	4.3
90°-180°	371.0	4.3
0°-180°	8543.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3134	3134	3134	3134	3134	
5°	3165	3212	3158	3009	2987	301
15°	3022	2891	2401	2704	2949	852
25°	2684	2396	4147	4656	3863	1232
35°	2188	2695	3221	2184	2012	1353
45°	1429	3599	1344	1214	1273	1126
55°	1135	2019	758	956	991	1025
65°	845	811	404	496	558	818
75°	222	327	375	538	577	265
85°	32	137	312	382	408	40
90°	2	100	248	307	316	2
95°	1	80	194	225	236	1
105°	1	41	102	121	130	1
115°	2	19	56	80	89	2
125°	2	8	33	52	64	2
135°	2	4	24	50	62	2
145°	2	2	10	18	23	1
155°	3	3	4	5	7	1
165°	3	3	3	1	2	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P236293

CATALOG NUMBER: 4SWLED-64HL-LC-UNV-L840-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3134.4	3134.4	3134.4	3134.4	3134.4	3134.4	3134.4	3134.4	3134.4	3134.4	3134.4
1°	3160.9	3158.8	3146.1	3139.7	3138.7	3136.5	3137.6	3139.7	3145.0	3145.0	3169.4
2°	3164.1	3163.1	3154.6	3150.3	3150.3	3150.3	3152.4	3158.8	3163.1	3164.1	3201.3
3°	3165.2	3166.2	3160.9	3157.8	3165.2	3165.2	3168.4	3176.9	3191.7	3197.0	3235.2
4°	3167.3	3171.5	3168.4	3167.3	3182.2	3192.8	3199.1	3210.8	3220.4	3221.4	3236.3
5°	3165.2	3170.5	3170.5	3183.2	3203.4	3211.9	3217.2	3224.6	3209.7	3169.4	3157.8
6°	3163.1	3171.5	3176.9	3200.2	3218.2	3225.7	3226.7	3193.8	3154.6	3107.9	3069.7
7°	3157.8	3166.2	3183.2	3214.0	3225.7	3224.6	3206.6	3138.7	3069.7	3010.3	2993.3
8°	3145.0	3157.8	3191.7	3217.2	3208.7	3175.8	3141.8	3067.6	3002.8	2960.4	2963.6
9°	3130.2	3144.0	3191.7	3209.7	3168.4	3121.7	3079.2	2986.9	2945.5	2939.2	2996.5
10°	3115.3	3137.6	3192.8	3193.8	3103.6	3055.9	2997.5	2934.9	2933.9	2968.9	3031.5
11°	3102.6	3129.1	3186.4	3162.0	3048.5	2995.4	2936.0	2917.9	2959.3	2998.6	3051.6
12°	3084.5	3120.6	3172.6	3119.6	2977.4	2926.4	2895.7	2929.6	2979.5	3015.6	2975.2
13°	3063.3	3103.6	3146.1	3055.9	2919.0	2884.0	2895.7	2951.9	2983.7	2962.5	2783.2
14°	3041.0	3093.0	3114.2	2999.7	2866.0	2874.4	2911.6	2956.1	2961.5	2777.9	2552.9
15°	3021.9	3079.2	3080.3	2937.0	2847.9	2891.4	2920.1	2941.3	2857.5	2599.6	2401.2
16°	2999.7	3064.4	3043.2	2892.5	2864.9	2905.2	2921.1	2903.1	2660.1	2408.6	2326.9
17°	2977.4	3043.2	2996.5	2853.2	2885.1	2907.3	2906.3	2792.7	2513.7	2323.7	2363.0
18°	2951.9	3016.6	2954.0	2825.6	2893.5	2894.6	2870.2	2663.3	2367.3	2306.8	2473.4
19°	2923.3	2985.9	2908.4	2808.7	2882.9	2859.6	2795.9	2519.0	2311.0	2371.5	2598.6
20°	2892.5	2950.8	2867.0	2810.8	2856.4	2804.4	2707.9	2406.5	2307.8	2475.5	2727.0
21°	2854.3	2909.5	2827.8	2821.4	2807.6	2716.3	2595.4	2340.7	2358.8	2572.0	2843.7
22°	2812.9	2866.0	2797.0	2821.4	2733.3	2631.5	2494.6	2314.2	2445.8	2672.8	2959.3
23°	2768.3	2825.6	2768.3	2807.6	2642.1	2537.0	2412.9	2337.5	2508.4	2771.5	3219.3
24°	2728.0	2780.0	2749.2	2774.7	2560.4	2457.4	2361.9	2388.5	2566.7	2882.9	3582.2
25°	2684.5	2736.5	2732.3	2721.7	2486.1	2395.9	2351.3	2429.9	2644.2	3155.6	4146.7
26°	2636.8	2689.8	2716.3	2644.2	2429.9	2364.1	2366.2	2460.6	2748.2	3498.4	4654.9
27°	2585.8	2646.3	2685.6	2559.3	2390.6	2360.9	2397.0	2482.9	2989.0	4035.3	5060.3
28°	2534.9	2596.4	2642.1	2474.4	2367.3	2382.1	2409.7	2530.7	3296.8	4496.8	5262.9
29°	2486.1	2549.8	2593.3	2408.6	2364.1	2408.6	2407.6	2671.8	3775.3	4894.7	5231.1
30°	2442.6	2503.1	2537.0	2365.1	2381.0	2411.8	2406.5	2905.2	4183.8	5098.5	5011.4
32.5°	2319.5	2367.3	2368.3	2325.9	2408.6	2403.3	2593.3	3840.0	4867.1	4896.9	4132.9
35°	2187.9	2202.8	2224.0	2353.5	2426.7	2695.1	3328.6	4449.1	4824.7	4071.3	3221.4
37.5°	2024.5	2022.4	2165.6	2373.6	2786.4	3407.1	3913.2	4545.6	4131.8	3152.4	2425.6
40°	1818.7	1842.0	2155.0	2453.2	3368.9	3712.7	3965.2	4260.2	3203.4	2429.9	2125.3
42.5°	1608.6	1714.7	2155.0	2778.9	3482.4	3672.4	3929.2	3557.8	2537.0	2072.3	1738.0
45°	1429.3	1647.8	2171.0	3048.5	3371.0	3599.2	3639.5	2840.5	2103.0	1604.3	1344.4
47.5°	1296.6	1585.2	2308.9	2943.4	3254.3	3309.5	3157.8	2370.4	1569.3	1178.9	1053.6
50°	1209.6	1511.0	2368.3	2736.5	3012.4	2943.4	2719.5	1748.6	1083.4	953.9	962.4
52.5°	1164.0	1495.1	2206.0	2543.4	2706.8	2558.2	2144.4	1183.1	873.3	854.2	859.5
55°	1135.3	1447.3	1968.3	2279.2	2323.7	2019.2	1583.1	890.2	747.0	736.4	757.6
57.5°	1121.6	1311.5	1733.8	1932.2	1825.0	1554.5	1202.2	679.1	608.0	629.2	692.9
60°	1100.3	1169.3	1392.1	1519.5	1453.7	1230.8	911.5	540.1	528.4	567.7	596.3
62.5°	1000.6	1003.8	974.1	1200.1	1189.5	998.5	720.5	462.6	442.5	454.1	460.5
65°	844.6	778.8	673.8	986.8	981.5	810.7	574.0	367.1	357.6	384.1	404.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
67.5°	670.6	561.3	505.1	789.4	779.9	641.9	459.4	316.2	334.2	361.8	391.5
70°	493.4	412.8	397.9	621.8	614.4	514.6	385.2	292.9	322.6	351.2	382.0
72.5°	336.4	305.6	313.0	469.0	480.7	411.7	326.8	278.0	304.5	337.4	384.1
75°	221.8	223.9	240.9	344.8	368.2	326.8	275.9	258.9	287.6	326.8	374.6
77.5°	151.7	159.2	179.3	247.2	274.8	254.7	234.5	238.7	269.5	315.1	365.0
80°	99.7	107.2	128.4	175.1	203.7	202.7	201.6	221.8	256.8	305.6	354.4
82.5°	60.5	67.9	88.1	124.1	153.9	163.4	176.1	205.8	248.3	302.4	341.7
85°	31.8	39.3	58.4	89.1	119.9	136.9	154.9	193.1	244.0	290.7	312.0
87.5°	12.7	20.2	38.2	64.7	97.6	116.7	137.9	183.6	236.6	267.4	279.1
90°	2.1	9.5	24.4	48.8	80.6	99.7	123.1	176.1	219.6	233.4	248.3
92.5°	1.1	5.3	17.0	37.1	67.9	88.1	112.5	163.4	192.1	205.8	219.6
95°	1.1	3.2	12.7	29.7	58.4	79.6	102.9	143.2	164.5	178.3	194.2
97.5°	1.1	3.2	9.5	24.4	53.1	72.2	92.3	121.0	139.0	154.9	168.7
100°	1.1	2.1	8.5	21.2	46.7	61.5	76.4	98.7	114.6	131.6	144.3
102.5°	1.1	2.1	7.4	19.1	40.3	52.0	62.6	79.6	96.6	110.4	123.1
105°	1.1	2.1	6.4	17.0	32.9	41.4	49.9	65.8	80.6	93.4	101.9
107.5°	1.1	2.1	5.3	13.8	26.5	34.0	41.4	55.2	67.9	77.5	85.9
110°	1.1	1.1	4.2	11.7	22.3	28.6	34.0	45.6	56.2	65.8	73.2
112.5°	2.1	2.1	4.2	9.5	18.0	23.3	28.6	38.2	47.7	56.2	63.7
115°	2.1	2.1	3.2	7.4	14.9	19.1	23.3	31.8	40.3	48.8	56.2
117.5°	2.1	2.1	3.2	6.4	11.7	15.9	19.1	26.5	34.0	42.4	49.9
120°	2.1	2.1	2.1	5.3	10.6	12.7	15.9	22.3	29.7	37.1	43.5
122.5°	2.1	2.1	2.1	4.2	8.5	10.6	12.7	19.1	25.5	31.8	38.2
125°	2.1	2.1	2.1	3.2	6.4	8.5	10.6	15.9	21.2	27.6	32.9
127.5°	2.1	2.1	2.1	3.2	5.3	7.4	8.5	12.7	18.0	22.3	28.6
130°	2.1	2.1	2.1	2.1	4.2	5.3	7.4	10.6	14.9	20.2	25.5
132.5°	2.1	2.1	2.1	2.1	4.2	5.3	6.4	9.5	14.9	19.1	24.4
135°	2.1	2.1	2.1	2.1	3.2	4.2	6.4	9.5	13.8	19.1	24.4
137.5°	2.1	2.1	2.1	2.1	3.2	4.2	5.3	8.5	12.7	18.0	22.3
140°	2.1	2.1	2.1	2.1	2.1	3.2	4.2	7.4	10.6	13.8	18.0
142.5°	2.1	2.1	2.1	2.1	2.1	2.1	3.2	5.3	7.4	10.6	13.8
145°	2.1	2.1	2.1	2.1	2.1	2.1	3.2	4.2	5.3	7.4	9.5
147.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.2	4.2	5.3	7.4
150°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.2	3.2	4.2	5.3
152.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.2	4.2
155°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.2
157.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
160°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
162.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
165°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
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





TEST NUMBER: P236293

CATALOG NUMBER: 4SWLED-64HL-LC-UNV-L840-CD1-U

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	3134.4	3134.4	3134.4	3134.4	3134.4	3134.4	3134.4	3134.4	3134.4	3134.4
1°	3177.9	3173.7	3170.5	3166.2	3162.0	3160.9	3158.8	3157.8	3149.3	3150.3
2°	3208.7	3211.9	3209.7	3205.5	3208.7	3204.4	3202.3	3198.1	3194.9	3196.0
3°	3245.8	3244.8	3235.2	3223.5	3216.1	3216.1	3200.2	3193.8	3174.7	3191.7
4°	3212.9	3190.6	3154.6	3137.6	3121.7	3119.6	3100.5	3082.4	3072.9	3089.8
5°	3123.8	3090.9	3045.3	3027.2	3009.2	3011.3	2995.4	2983.7	2976.3	2986.9
6°	3034.7	3005.0	2973.1	2954.0	2946.6	2941.3	2939.2	2942.4	2944.5	2943.4
7°	2972.1	2965.7	2962.5	2971.0	2978.4	2978.4	2991.2	3001.8	3005.0	3002.8
8°	2983.7	3005.0	3018.8	3024.1	3025.1	3027.2	3047.4	3047.4	3041.0	3043.2
9°	3031.5	3046.3	3061.2	3042.1	3005.0	2997.5	2927.5	2886.1	2827.8	2844.7
10°	3068.6	3041.0	2926.4	2832.0	2768.3	2747.1	2641.0	2594.3	2533.8	2550.8
11°	3005.0	2856.4	2683.5	2565.7	2505.2	2470.2	2401.2	2372.6	2360.9	2357.7
12°	2768.3	2595.4	2440.5	2372.6	2345.0	2334.4	2326.9	2335.4	2354.5	2359.8
13°	2552.9	2409.7	2338.6	2343.9	2357.7	2374.7	2434.1	2469.1	2503.1	2504.1
14°	2378.9	2335.4	2392.7	2464.9	2506.3	2532.8	2615.5	2672.8	2735.4	2747.1
15°	2333.3	2405.5	2541.3	2651.6	2703.6	2759.8	2869.1	2915.8	2950.8	2948.7
16°	2411.8	2536.0	2724.8	2854.3	2907.3	2944.5	3014.5	3057.0	3098.3	3104.7
17°	2543.4	2733.3	2907.3	3007.1	3045.3	3087.7	3217.2	3306.3	3381.6	3406.0
18°	2681.3	2880.8	3018.8	3180.0	3280.8	3363.6	3544.0	3708.4	3866.5	3896.3
19°	2835.2	3009.2	3239.5	3516.4	3640.5	3826.2	4147.7	4348.3	4508.5	4560.5
20°	2936.0	3210.8	3568.4	4089.4	4264.5	4470.3	4778.0	4930.8	5041.2	5065.6
21°	3113.2	3564.1	4178.5	4693.1	4870.3	4984.9	5188.6	5285.2	5312.8	5348.9
22°	3407.1	4124.4	4755.7	5130.3	5249.1	5314.9	5337.2	5265.0	5200.3	5174.9
23°	3946.1	4676.1	5137.7	5345.7	5334.0	5253.4	5071.9	4901.1	4789.7	4743.0
24°	4531.8	5100.6	5328.7	5152.6	5051.8	4879.9	4648.6	4476.7	4357.8	4300.5
25°	4945.7	5310.7	5117.6	4784.4	4656.0	4477.7	4197.6	4033.1	3916.4	3863.4
26°	5255.5	5208.8	4761.0	4379.0	4228.4	4056.5	3810.3	3718.0	3632.1	3581.1
27°	5284.1	4905.3	4382.2	3961.0	3826.2	3704.2	3519.6	3386.9	3296.8	3249.0
28°	5053.9	4550.9	3979.0	3641.6	3532.3	3383.8	3174.7	3044.2	2980.6	2908.4
29°	4760.0	4144.5	3643.7	3292.5	3173.7	3024.1	2816.1	2644.2	2602.8	2558.2
30°	4365.3	3774.2	3310.5	2919.0	2805.5	2644.2	2485.0	2428.8	2401.2	2366.2
32.5°	3436.8	2843.7	2457.4	2308.9	2274.9	2260.1	2318.4	2328.0	2325.9	2306.8
35°	2572.0	2248.4	2234.6	2212.3	2183.7	2156.1	2102.0	2071.2	2044.7	2011.8
37.5°	2196.4	2106.2	1980.0	1870.7	1821.9	1784.7	1728.5	1697.7	1672.3	1653.2
40°	1924.8	1739.1	1612.8	1536.4	1509.9	1466.4	1431.4	1412.3	1393.2	1367.7
42.5°	1553.4	1387.9	1288.1	1234.0	1218.1	1201.1	1214.9	1237.2	1247.8	1259.5
45°	1195.8	1120.5	1143.8	1193.7	1213.9	1235.1	1265.9	1272.2	1274.3	1273.3
47.5°	1042.0	1096.1	1123.7	1139.6	1136.4	1144.9	1170.4	1187.3	1198.0	1188.4
50°	990.0	997.4	1035.6	1074.9	1081.2	1070.6	1075.9	1089.7	1104.6	1106.7
52.5°	895.5	927.4	957.1	983.6	1007.0	1030.3	1068.5	1087.6	1099.3	1099.3
55°	804.3	862.7	904.0	941.2	956.0	962.4	981.5	988.9	996.3	991.0
57.5°	747.0	774.6	802.2	796.9	785.2	768.2	778.8	791.6	796.9	793.7
60°	603.8	604.8	608.0	616.5	630.3	643.0	655.7	658.9	664.2	663.2
62.5°	477.5	488.1	505.1	532.7	540.1	540.1	552.8	562.4	565.6	561.3
65°	428.7	449.9	479.6	495.5	495.5	498.7	522.0	549.6	560.2	558.1



TEST NUMBER: P236293

CATALOG NUMBER: 4SWLED-64HL-LC-UNV-L840-CD1-U

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
67.5°	419.1	456.3	471.1	493.4	510.4	527.4	550.7	566.6	576.2	579.3
70°	425.5	453.1	482.8	513.6	527.4	542.2	569.8	592.1	600.6	601.6
72.5°	424.4	460.5	490.2	527.4	543.3	557.1	577.2	585.7	588.9	588.9
75°	421.2	457.3	498.7	525.2	538.0	551.8	563.4	569.8	575.1	577.2
77.5°	407.5	446.7	466.9	491.3	499.8	506.1	521.0	531.6	539.0	540.1
80°	390.5	408.5	423.4	443.5	449.9	459.4	474.3	480.7	486.0	486.0
82.5°	357.6	370.3	386.2	407.5	419.1	428.7	440.3	444.6	447.8	448.8
85°	322.6	335.3	355.5	373.5	382.0	390.5	401.1	407.5	409.6	407.5
87.5°	290.7	308.8	327.9	341.7	344.8	349.1	357.6	362.9	365.0	367.1
90°	262.1	280.1	295.0	306.6	306.6	310.9	315.1	316.2	314.1	316.2
92.5°	236.6	248.3	256.8	262.1	262.1	265.3	270.6	272.7	271.6	272.7
95°	205.8	214.3	218.6	221.8	224.9	229.2	233.4	234.5	234.5	235.6
97.5°	178.3	184.6	188.9	192.1	193.1	196.3	196.3	197.4	197.4	198.4
100°	153.9	160.2	161.3	160.2	161.3	162.3	163.4	165.5	166.6	167.6
102.5°	130.5	135.8	137.9	139.0	140.1	142.2	144.3	145.4	147.5	147.5
105°	108.2	114.6	118.8	121.0	121.0	123.1	125.2	127.3	128.4	129.5
107.5°	92.3	98.7	104.0	106.1	108.2	109.3	111.4	113.5	114.6	115.7
110°	79.6	85.9	92.3	96.6	97.6	99.7	101.9	104.0	105.0	106.1
112.5°	71.1	76.4	81.7	85.9	88.1	90.2	92.3	94.4	96.6	96.6
115°	62.6	69.0	73.2	77.5	79.6	80.6	83.8	87.0	88.1	89.1
117.5°	56.2	61.5	65.8	70.0	72.2	74.3	76.4	78.5	80.6	80.6
120°	49.9	55.2	59.4	62.6	64.7	65.8	69.0	71.1	72.2	73.2
122.5°	43.5	48.8	52.0	56.2	57.3	59.4	62.6	64.7	65.8	66.8
125°	38.2	42.4	46.7	50.9	52.0	54.1	58.4	60.5	62.6	63.7
127.5°	34.0	38.2	43.5	47.7	49.9	53.1	57.3	60.5	62.6	63.7
130°	30.8	37.1	42.4	47.7	50.9	53.1	58.4	62.6	64.7	64.7
132.5°	30.8	37.1	43.5	48.8	52.0	54.1	59.4	63.7	65.8	66.8
135°	29.7	35.0	41.4	46.7	49.9	52.0	56.2	59.4	61.5	61.5
137.5°	26.5	30.8	35.0	39.3	42.4	44.6	47.7	49.9	52.0	52.0
140°	21.2	24.4	27.6	30.8	32.9	35.0	38.2	39.3	41.4	41.4
142.5°	15.9	18.0	21.2	23.3	24.4	26.5	28.6	30.8	31.8	31.8
145°	11.7	13.8	14.9	17.0	18.0	19.1	21.2	22.3	23.3	23.3
147.5°	8.5	9.5	10.6	12.7	12.7	13.8	15.9	17.0	17.0	17.0
150°	6.4	7.4	8.5	8.5	9.5	9.5	11.7	12.7	12.7	12.7
152.5°	5.3	5.3	6.4	6.4	7.4	7.4	8.5	9.5	9.5	9.5
155°	4.2	4.2	4.2	4.2	5.3	5.3	6.4	6.4	7.4	7.4
157.5°	3.2	3.2	3.2	3.2	3.2	3.2	4.2	4.2	5.3	5.3
160°	3.2	3.2	2.1	2.1	2.1	2.1	3.2	3.2	3.2	3.2
162.5°	3.2	2.1	2.1	2.1	1.1	2.1	2.1	2.1	2.1	2.1
165°	2.1	2.1	2.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1
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: P236293

CATALOG NUMBER: 4SWLED-64HL-LC-UNV-L840-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)