

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: P236287

Luminaire Tested: **4SWLED-56HL-LC-UNV-L840-CD1-U**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P236287  
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-56HL-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**

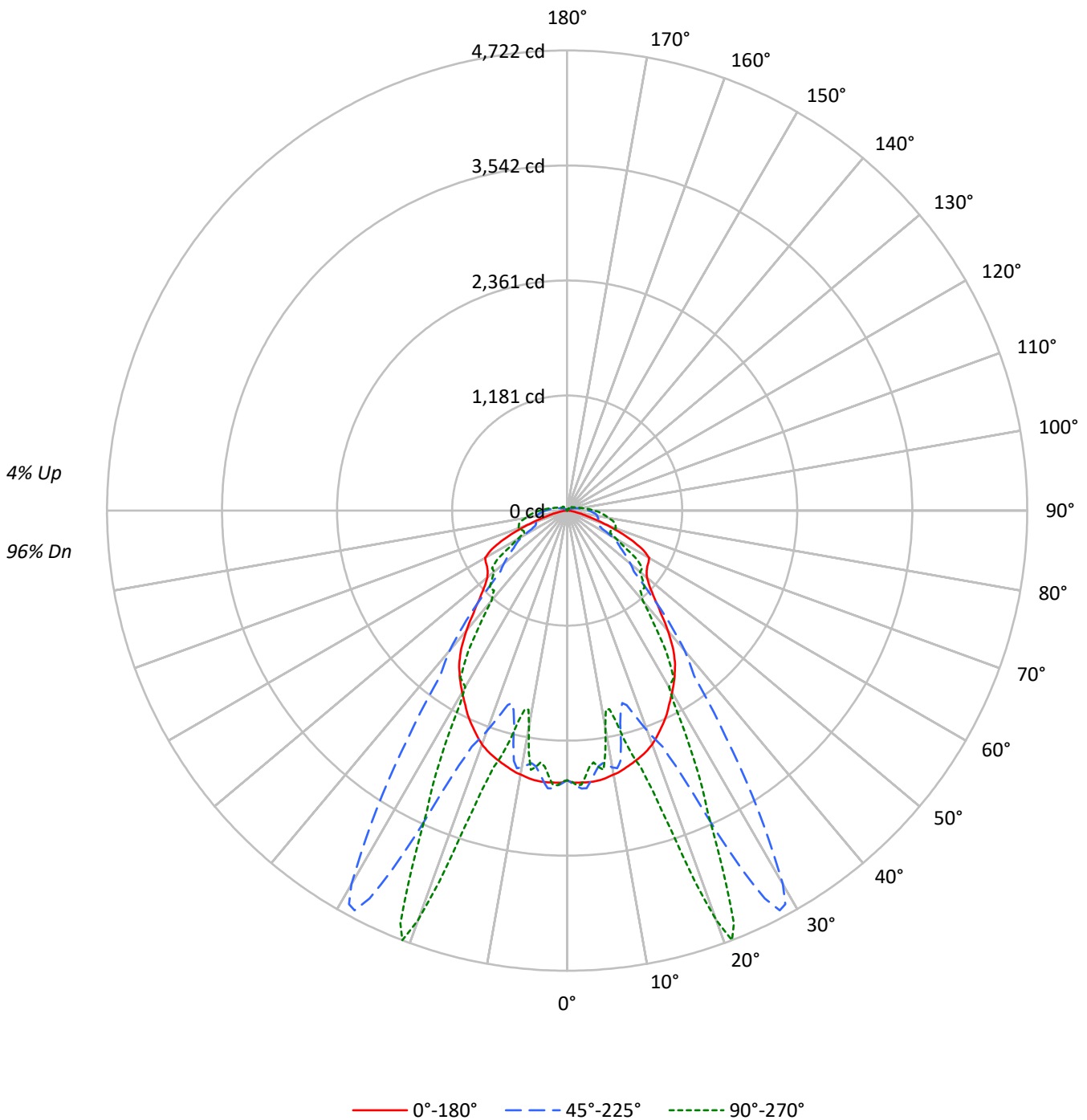
Lumens per Lamp: N/A  
Luminaire Lumens: 7542.0 lumens  
Efficiency: N/A  
Efficacy: 142.6 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.15 / 1.24  
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')  
CIE Type: Direct

Input Watts (W): 52.9  
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°	19857	19857	19857
5°	20064	19567	18370
10°	19912	18519	15356
15°	19628	14574	17514
20°	19245	16570	29916
25°	18451	25420	22860
30°	17500	31235	14135
35°	16500	20580	12229
40°	14594	14034	8528
45°	12355	9260	8214
50°	11425	6982	7453
55°	11919	5853	7037
60°	13113	4968	5021
65°	11742	3684	4562
70°	8307	3874	5387
75°	4779	4320	5764
80°	3017	4779	5531
85°	1633	5110	5439



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	259.0	3.4
10°-20°	728.6	9.7
20°-30°	1435.6	19.0
30°-40°	1481.2	19.6
40°-50°	1244.7	16.5
50°-60°	918.0	12.2
60°-70°	520.5	6.9
70°-80°	373.7	5.0
80°-90°	253.3	3.4
90°-100°	151.3	2.0
100°-110°	79.0	1.0
110°-120°	44.2	0.6
120°-130°	25.9	0.3
130°-140°	17.9	0.2
140°-150°	6.5	0.1
150°-160°	1.8	0.0
160°-170°	0.5	0.0
170°-180°	0.0	0.0
0°-30°	2423.2	32.1
0°-40°	3904.4	51.8
0°-60°	6067.1	80.4
0°-90°	7214.7	95.7
90°-120°	274.6	3.6
90°-150°	325.0	4.3
90°-180°	327.0	4.3
0°-180°	7542.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2767	2767	2767	2767	2767	
5°	2794	2836	2788	2657	2637	265
15°	2668	2553	2120	2387	2603	752
25°	2370	2115	3661	4110	3411	1088
35°	1932	2379	2844	1928	1776	1194
45°	1262	3177	1187	1072	1124	994
55°	1002	1783	669	844	875	905
65°	746	716	357	438	493	722
75°	196	288	331	475	510	234
85°	28	121	275	337	360	36
90°	2	88	219	271	279	2
95°	1	70	171	199	208	1
105°	1	36	90	107	114	1
115°	2	17	50	70	79	2
125°	2	8	29	46	56	2
135°	2	4	22	44	54	1
145°	2	2	8	16	21	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: P236287

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2767.1	2767.1	2767.1	2767.1	2767.1	2767.1	2767.1	2767.1	2767.1	2767.1	2767.1
1°	2790.6	2788.7	2777.4	2771.8	2770.9	2769.0	2770.0	2771.8	2776.5	2776.5	2798.1
2°	2793.4	2792.4	2784.9	2781.2	2781.2	2781.2	2783.1	2788.7	2792.4	2793.4	2826.2
3°	2794.3	2795.2	2790.6	2787.8	2794.3	2794.3	2797.1	2804.6	2817.7	2822.4	2856.1
4°	2796.2	2799.9	2797.1	2796.2	2809.3	2818.7	2824.3	2834.6	2843.0	2844.0	2857.1
5°	2794.3	2799.0	2799.0	2810.2	2828.0	2835.5	2840.2	2846.8	2833.7	2798.1	2787.8
6°	2792.4	2799.9	2804.6	2825.2	2841.1	2847.7	2848.6	2819.6	2784.9	2743.7	2710.0
7°	2787.8	2795.2	2810.2	2837.4	2847.7	2846.8	2830.8	2770.9	2710.0	2657.5	2642.6
8°	2776.5	2787.8	2817.7	2840.2	2832.7	2803.7	2773.7	2708.1	2651.0	2613.5	2616.3
9°	2763.4	2775.6	2817.7	2833.7	2797.1	2755.9	2718.4	2636.9	2600.4	2594.8	2645.4
10°	2750.3	2770.0	2818.7	2819.6	2740.0	2697.8	2646.3	2591.0	2590.1	2621.0	2676.3
11°	2739.0	2762.5	2813.0	2791.5	2691.3	2644.4	2592.0	2576.0	2612.6	2647.2	2694.1
12°	2723.1	2755.0	2800.9	2754.0	2628.5	2583.5	2556.4	2586.4	2630.4	2662.2	2626.6
13°	2704.4	2740.0	2777.4	2697.8	2577.0	2546.1	2556.4	2606.0	2634.1	2615.4	2457.1
14°	2684.7	2730.6	2749.3	2648.2	2530.1	2537.6	2570.4	2609.8	2614.5	2452.4	2253.8
15°	2667.8	2718.4	2719.4	2592.9	2514.2	2552.6	2577.9	2596.7	2522.7	2295.0	2119.9
16°	2648.2	2705.3	2686.6	2553.6	2529.2	2564.8	2578.9	2562.9	2348.4	2126.4	2054.3
17°	2628.5	2686.6	2645.4	2518.9	2547.0	2566.7	2565.7	2465.5	2219.1	2051.5	2086.1
18°	2606.0	2663.2	2607.9	2494.6	2554.5	2555.4	2533.9	2351.2	2089.9	2036.5	2183.6
19°	2580.7	2636.0	2567.6	2479.6	2545.1	2524.5	2468.3	2223.8	2040.2	2093.6	2294.1
20°	2553.6	2605.1	2531.1	2481.4	2521.7	2475.8	2390.6	2124.5	2037.4	2185.4	2407.4
21°	2519.8	2568.6	2496.4	2490.8	2478.6	2398.1	2291.3	2066.5	2082.4	2270.7	2510.5
22°	2483.3	2530.1	2469.3	2490.8	2413.1	2323.1	2202.3	2043.0	2159.2	2359.7	2612.6
23°	2444.0	2494.6	2444.0	2478.6	2332.5	2239.8	2130.2	2063.6	2214.5	2446.8	2842.1
24°	2408.4	2454.3	2427.1	2449.6	2260.4	2169.5	2085.2	2108.6	2266.0	2545.1	3162.5
25°	2370.0	2415.9	2412.1	2402.8	2194.8	2115.2	2075.8	2145.1	2334.4	2785.9	3660.8
26°	2327.8	2374.6	2398.1	2334.4	2145.1	2087.1	2088.9	2172.3	2426.2	3088.4	4109.5
27°	2282.8	2336.2	2370.9	2259.4	2110.5	2084.3	2116.1	2192.0	2638.8	3562.4	4467.3
28°	2237.9	2292.2	2332.5	2184.5	2089.9	2103.0	2127.3	2234.1	2910.5	3969.9	4646.3
29°	2194.8	2251.0	2289.4	2126.4	2087.1	2126.4	2125.5	2358.7	3332.9	4321.2	4618.2
30°	2156.4	2209.8	2239.8	2088.0	2102.1	2129.2	2124.5	2564.8	3693.6	4501.1	4424.2
32.5°	2047.7	2089.9	2090.8	2053.3	2126.4	2121.7	2289.4	3390.1	4296.8	4323.1	3648.6
35°	1931.6	1944.7	1963.4	2077.7	2142.3	2379.3	2938.6	3927.8	4259.4	3594.3	2844.0
37.5°	1787.3	1785.4	1911.9	2095.5	2459.9	3007.9	3454.7	4013.0	3647.7	2783.1	2141.4
40°	1605.6	1626.2	1902.5	2165.8	2974.2	3277.7	3500.6	3761.0	2828.0	2145.1	1876.3
42.5°	1420.1	1513.8	1902.5	2453.3	3074.4	3242.1	3468.8	3140.9	2239.8	1829.5	1534.4
45°	1261.8	1454.8	1916.6	2691.3	2976.0	3177.4	3213.0	2507.7	1856.6	1416.4	1186.9
47.5°	1144.7	1399.5	2038.4	2598.5	2873.0	2921.7	2787.8	2092.7	1385.4	1040.7	930.2
50°	1067.9	1333.9	2090.8	2415.9	2659.4	2598.5	2400.9	1543.8	956.4	842.1	849.6
52.5°	1027.6	1319.9	1947.5	2245.4	2389.6	2258.5	1893.2	1044.5	770.9	754.1	758.8
55°	1002.3	1277.7	1737.7	2012.1	2051.5	1782.6	1397.6	785.9	659.5	650.1	668.8
57.5°	990.1	1157.8	1530.6	1705.8	1611.2	1372.3	1061.3	599.5	536.8	555.5	611.7
60°	971.4	1032.3	1229.0	1341.4	1283.3	1086.6	804.7	476.8	466.5	501.2	526.5
62.5°	883.4	886.2	859.9	1059.5	1050.1	881.5	636.0	408.4	390.6	400.9	406.5
65°	745.6	687.6	594.8	871.2	866.5	715.7	506.8	324.1	315.7	339.1	356.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
67.5°	592.0	495.5	445.9	696.9	688.5	566.7	405.6	279.1	295.1	319.4	345.7
70°	435.6	364.4	351.3	548.9	542.4	454.3	340.0	258.5	284.8	310.1	337.2
72.5°	296.9	269.8	276.3	414.0	424.3	363.5	288.5	245.4	268.8	297.9	339.1
75°	195.8	197.7	212.6	304.4	325.1	288.5	243.6	228.6	253.9	288.5	330.7
77.5°	134.0	140.5	158.3	218.3	242.6	224.8	207.0	210.8	237.9	278.2	322.2
80°	88.1	94.6	113.3	154.6	179.9	178.9	178.0	195.8	226.7	269.8	312.9
82.5°	53.4	60.0	77.7	109.6	135.8	144.3	155.5	181.7	219.2	267.0	301.6
85°	28.1	34.7	51.5	78.7	105.9	120.8	136.8	170.5	215.5	256.7	275.4
87.5°	11.2	17.8	33.7	57.1	86.2	103.0	121.8	162.1	208.9	236.1	246.4
90°	1.9	8.4	21.5	43.1	71.2	88.1	108.7	155.5	193.9	206.1	219.2
92.5°	0.9	4.7	15.0	32.8	60.0	77.7	99.3	144.3	169.6	181.7	193.9
95°	0.9	2.8	11.2	26.2	51.5	70.3	90.9	126.5	145.2	157.4	171.4
97.5°	0.9	2.8	8.4	21.5	46.8	63.7	81.5	106.8	122.7	136.8	148.9
100°	0.9	1.9	7.5	18.7	41.2	54.3	67.4	87.1	101.2	116.2	127.4
102.5°	0.9	1.9	6.6	16.9	35.6	45.9	55.3	70.3	85.2	97.4	108.7
105°	0.9	1.9	5.6	15.0	29.0	36.5	44.0	58.1	71.2	82.4	89.9
107.5°	0.9	1.9	4.7	12.2	23.4	30.0	36.5	48.7	60.0	68.4	75.9
110°	0.9	0.9	3.7	10.3	19.7	25.3	30.0	40.3	49.6	58.1	64.6
112.5°	1.9	1.9	3.7	8.4	15.9	20.6	25.3	33.7	42.2	49.6	56.2
115°	1.9	1.9	2.8	6.6	13.1	16.9	20.6	28.1	35.6	43.1	49.6
117.5°	1.9	1.9	2.8	5.6	10.3	14.1	16.9	23.4	30.0	37.5	44.0
120°	1.9	1.9	1.9	4.7	9.4	11.2	14.1	19.7	26.2	32.8	38.4
122.5°	1.9	1.9	1.9	3.7	7.5	9.4	11.2	16.9	22.5	28.1	33.7
125°	1.9	1.9	1.9	2.8	5.6	7.5	9.4	14.1	18.7	24.4	29.0
127.5°	1.9	1.9	1.9	2.8	4.7	6.6	7.5	11.2	15.9	19.7	25.3
130°	1.9	1.9	1.9	1.9	3.7	4.7	6.6	9.4	13.1	17.8	22.5
132.5°	1.9	1.9	1.9	1.9	3.7	4.7	5.6	8.4	13.1	16.9	21.5
135°	1.9	1.9	1.9	1.9	2.8	3.7	5.6	8.4	12.2	16.9	21.5
137.5°	1.9	1.9	1.9	1.9	2.8	3.7	4.7	7.5	11.2	15.9	19.7
140°	1.9	1.9	1.9	1.9	1.9	2.8	3.7	6.6	9.4	12.2	15.9
142.5°	1.9	1.9	1.9	1.9	1.9	1.9	2.8	4.7	6.6	9.4	12.2
145°	1.9	1.9	1.9	1.9	1.9	1.9	2.8	3.7	4.7	6.6	8.4
147.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.8	3.7	4.7	6.6
150°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.8	2.8	3.7	4.7
152.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.7	3.7
155°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.7
157.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
160°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
162.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
165°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
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: P236287

CATALOG NUMBER: 4SWLED-56HL-LC-UNV-L840-CD1-U

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2767.1	2767.1	2767.1	2767.1	2767.1	2767.1	2767.1	2767.1	2767.1	2767.1
1°	2805.6	2801.8	2799.0	2795.2	2791.5	2790.6	2788.7	2787.8	2780.3	2781.2
2°	2832.7	2835.5	2833.7	2829.9	2832.7	2829.0	2827.1	2823.3	2820.5	2821.5
3°	2865.5	2864.6	2856.1	2845.8	2839.3	2839.3	2825.2	2819.6	2802.7	2817.7
4°	2836.5	2816.8	2784.9	2770.0	2755.9	2754.0	2737.2	2721.2	2712.8	2727.8
5°	2757.8	2728.7	2688.5	2672.5	2656.6	2658.5	2644.4	2634.1	2627.6	2636.9
6°	2679.1	2652.9	2624.8	2607.9	2601.3	2596.7	2594.8	2597.6	2599.5	2598.5
7°	2623.8	2618.2	2615.4	2622.9	2629.4	2629.4	2640.7	2650.1	2652.9	2651.0
8°	2634.1	2652.9	2665.0	2669.7	2670.7	2672.5	2690.3	2690.3	2684.7	2686.6
9°	2676.3	2689.4	2702.5	2685.6	2652.9	2646.3	2584.5	2547.9	2496.4	2511.4
10°	2709.1	2684.7	2583.5	2500.2	2444.0	2425.2	2331.6	2290.3	2236.9	2251.9
11°	2652.9	2521.7	2369.0	2265.0	2211.7	2180.7	2119.9	2094.6	2084.3	2081.4
12°	2444.0	2291.3	2154.5	2094.6	2070.2	2060.8	2054.3	2061.8	2078.6	2083.3
13°	2253.8	2127.3	2064.6	2069.3	2081.4	2096.4	2148.9	2179.8	2209.8	2210.7
14°	2100.2	2061.8	2112.4	2176.1	2212.6	2236.0	2309.1	2359.7	2414.9	2425.2
15°	2059.9	2123.6	2243.5	2340.9	2386.8	2436.5	2533.0	2574.2	2605.1	2603.2
16°	2129.2	2238.8	2405.6	2519.8	2566.7	2599.5	2661.3	2698.8	2735.3	2740.9
17°	2245.4	2413.1	2566.7	2654.7	2688.5	2725.9	2840.2	2918.9	2985.4	3007.0
18°	2367.2	2543.3	2665.0	2807.4	2896.4	2969.5	3128.7	3273.9	3413.5	3439.7
19°	2503.0	2656.6	2859.9	3104.4	3214.0	3377.9	3661.7	3838.8	3980.2	4026.1
20°	2592.0	2834.6	3150.3	3610.2	3764.8	3946.5	4218.2	4353.1	4450.5	4472.0
21°	2748.4	3146.5	3688.9	4143.2	4299.7	4400.8	4580.7	4665.9	4690.3	4722.1
22°	3007.9	3641.1	4198.5	4529.2	4634.1	4692.2	4711.8	4648.1	4591.0	4568.5
23°	3483.8	4128.2	4535.7	4719.3	4709.0	4637.8	4477.6	4326.8	4228.5	4187.2
24°	4000.8	4502.9	4704.3	4548.8	4459.8	4308.1	4103.9	3952.1	3847.2	3796.6
25°	4366.2	4688.4	4517.9	4223.8	4110.4	3953.1	3705.8	3560.6	3457.5	3410.7
26°	4639.7	4598.5	4203.2	3865.9	3732.9	3581.2	3363.9	3282.4	3206.5	3161.5
27°	4665.0	4330.6	3868.8	3496.9	3377.9	3270.2	3107.2	2990.1	2910.5	2868.3
28°	4461.7	4017.7	3512.8	3214.9	3118.4	2987.3	2802.7	2687.5	2631.3	2567.6
29°	4202.2	3658.9	3216.8	2906.7	2801.8	2669.7	2486.1	2334.4	2297.8	2258.5
30°	3853.8	3332.0	2922.6	2577.0	2476.8	2334.4	2193.9	2144.2	2119.9	2088.9
32.5°	3034.1	2510.5	2169.5	2038.4	2008.4	1995.3	2046.8	2055.2	2053.3	2036.5
35°	2270.7	1985.0	1972.8	1953.1	1927.8	1903.5	1855.7	1828.5	1805.1	1776.1
37.5°	1939.1	1859.4	1748.0	1651.5	1608.4	1575.6	1526.0	1498.8	1476.3	1459.4
40°	1699.3	1535.3	1423.9	1356.4	1333.0	1294.6	1263.7	1246.8	1229.9	1207.5
42.5°	1371.4	1225.3	1137.2	1089.4	1075.4	1060.4	1072.6	1092.2	1101.6	1111.9
45°	1055.7	989.2	1009.8	1053.8	1071.6	1090.4	1117.5	1123.2	1125.0	1124.1
47.5°	919.9	967.7	992.0	1006.1	1003.3	1010.7	1033.2	1048.2	1057.6	1049.2
50°	874.0	880.5	914.3	948.9	954.5	945.2	949.9	962.0	975.2	977.0
52.5°	790.6	818.7	844.9	868.4	889.0	909.6	943.3	960.2	970.5	970.5
55°	710.1	761.6	798.1	830.9	844.0	849.6	866.5	873.0	879.6	874.9
57.5°	659.5	683.8	708.2	703.5	693.2	678.2	687.6	698.8	703.5	700.7
60°	533.0	533.9	536.8	544.2	556.4	567.7	578.9	581.7	586.4	585.5
62.5°	421.5	430.9	445.9	470.2	476.8	476.8	488.0	496.5	499.3	495.5
65°	378.4	397.2	423.4	437.5	437.5	440.3	460.9	485.2	494.6	492.7



TEST NUMBER: P236287

CATALOG NUMBER: 4SWLED-56HL-LC-UNV-L840-CD1-U

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
67.5°	370.0	402.8	415.9	435.6	450.6	465.6	486.2	500.2	508.7	511.5
70°	375.6	400.0	426.2	453.4	465.6	478.7	503.0	522.7	530.2	531.1
72.5°	374.7	406.5	432.8	465.6	479.6	491.8	509.6	517.1	519.9	519.9
75°	371.9	403.7	440.3	463.7	474.9	487.1	497.4	503.0	507.7	509.6
77.5°	359.7	394.4	412.2	433.7	441.2	446.8	459.9	469.3	475.9	476.8
80°	344.7	360.6	373.8	391.6	397.2	405.6	418.7	424.3	429.0	429.0
82.5°	315.7	326.9	341.0	359.7	370.0	378.4	388.7	392.5	395.3	396.2
85°	284.8	296.0	313.8	329.7	337.2	344.7	354.1	359.7	361.6	359.7
87.5°	256.7	272.6	289.5	301.6	304.4	308.2	315.7	320.4	322.2	324.1
90°	231.4	247.3	260.4	270.7	270.7	274.5	278.2	279.1	277.3	279.1
92.5°	208.9	219.2	226.7	231.4	231.4	234.2	238.9	240.7	239.8	240.7
95°	181.7	189.2	193.0	195.8	198.6	202.3	206.1	207.0	207.0	208.0
97.5°	157.4	163.0	166.7	169.6	170.5	173.3	173.3	174.2	174.2	175.2
100°	135.8	141.4	142.4	141.4	142.4	143.3	144.3	146.1	147.1	148.0
102.5°	115.2	119.9	121.8	122.7	123.7	125.5	127.4	128.3	130.2	130.2
105°	95.5	101.2	104.9	106.8	106.8	108.7	110.5	112.4	113.3	114.3
107.5°	81.5	87.1	91.8	93.7	95.5	96.5	98.4	100.2	101.2	102.1
110°	70.3	75.9	81.5	85.2	86.2	88.1	89.9	91.8	92.7	93.7
112.5°	62.8	67.4	72.1	75.9	77.7	79.6	81.5	83.4	85.2	85.2
115°	55.3	60.9	64.6	68.4	70.3	71.2	74.0	76.8	77.7	78.7
117.5°	49.6	54.3	58.1	61.8	63.7	65.6	67.4	69.3	71.2	71.2
120°	44.0	48.7	52.5	55.3	57.1	58.1	60.9	62.8	63.7	64.6
122.5°	38.4	43.1	45.9	49.6	50.6	52.5	55.3	57.1	58.1	59.0
125°	33.7	37.5	41.2	45.0	45.9	47.8	51.5	53.4	55.3	56.2
127.5°	30.0	33.7	38.4	42.2	44.0	46.8	50.6	53.4	55.3	56.2
130°	27.2	32.8	37.5	42.2	45.0	46.8	51.5	55.3	57.1	57.1
132.5°	27.2	32.8	38.4	43.1	45.9	47.8	52.5	56.2	58.1	59.0
135°	26.2	30.9	36.5	41.2	44.0	45.9	49.6	52.5	54.3	54.3
137.5°	23.4	27.2	30.9	34.7	37.5	39.3	42.2	44.0	45.9	45.9
140°	18.7	21.5	24.4	27.2	29.0	30.9	33.7	34.7	36.5	36.5
142.5°	14.1	15.9	18.7	20.6	21.5	23.4	25.3	27.2	28.1	28.1
145°	10.3	12.2	13.1	15.0	15.9	16.9	18.7	19.7	20.6	20.6
147.5°	7.5	8.4	9.4	11.2	11.2	12.2	14.1	15.0	15.0	15.0
150°	5.6	6.6	7.5	7.5	8.4	8.4	10.3	11.2	11.2	11.2
152.5°	4.7	4.7	5.6	5.6	6.6	6.6	7.5	8.4	8.4	8.4
155°	3.7	3.7	3.7	3.7	4.7	4.7	5.6	5.6	6.6	6.6
157.5°	2.8	2.8	2.8	2.8	2.8	2.8	3.7	3.7	4.7	4.7
160°	2.8	2.8	1.9	1.9	1.9	1.9	2.8	2.8	2.8	2.8
162.5°	2.8	1.9	1.9	1.9	0.9	1.9	1.9	1.9	1.9	1.9
165°	1.9	1.9	1.9	0.9	0.9	0.9	0.9	0.9	0.9	1.9
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: P236287

CATALOG NUMBER: 4SWLED-56HL-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)