

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: P236294

Luminaire Tested: **4SWLED-64HL-LC-UNV-L850-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236294
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-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

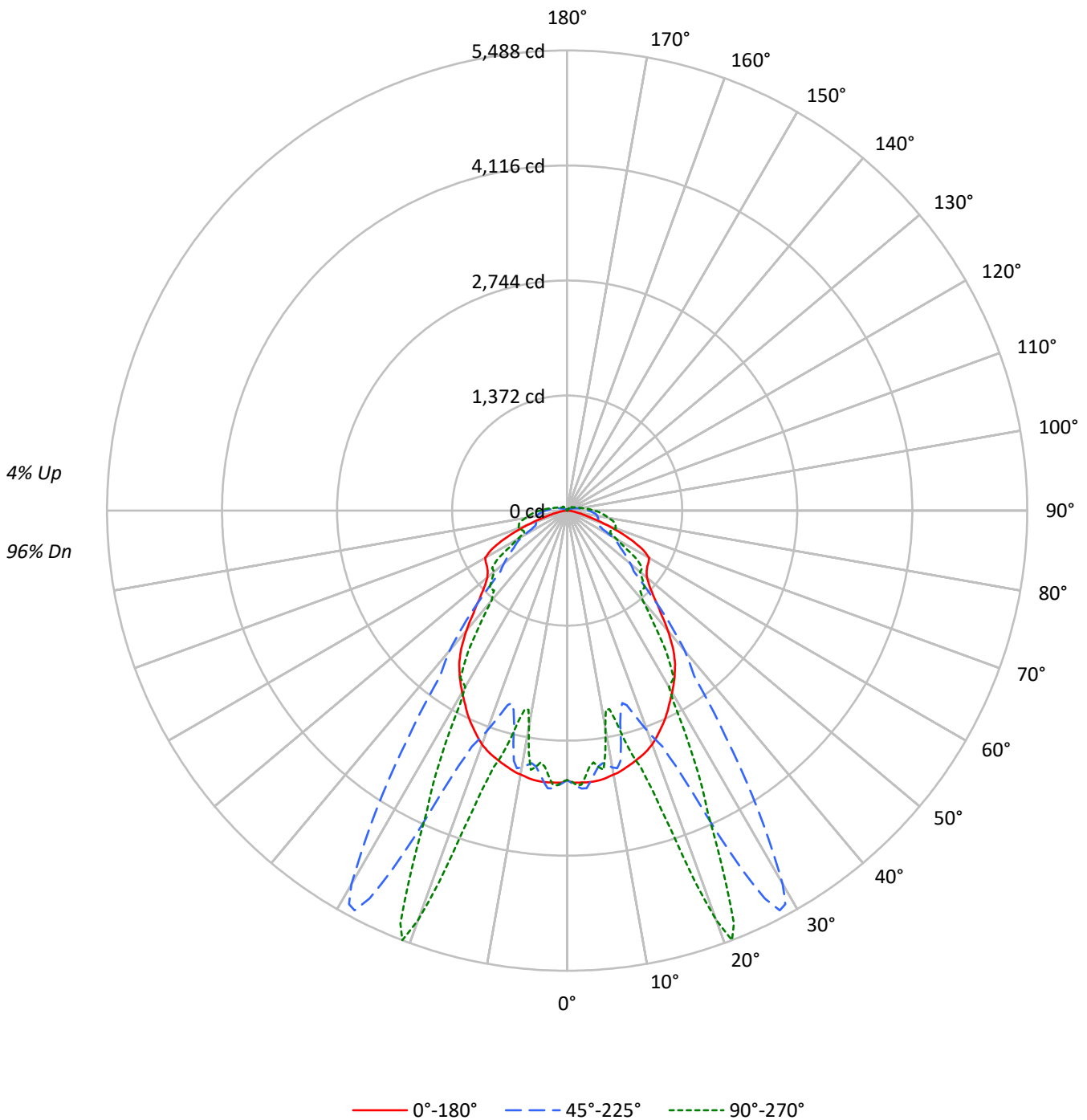
Lumens per Lamp: N/A
Luminaire Lumens: 8765.0 lumens
Efficiency: N/A
Efficacy: 141.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.15 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')
CIE Type: Direct

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

TEST NUMBER: P236294

CATALOG NUMBER: 4SWLED-64HL-LC-UNV-L850-CD1-U

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°	23077	23077	23077
5°	23318	22739	21348
10°	23142	21522	17846
15°	22811	16937	20354
20°	22365	19257	34767
25°	21443	29542	26567
30°	20338	36301	16428
35°	19175	23917	14212
40°	16960	16311	9911
45°	14358	10761	9546
50°	13278	8115	8662
55°	13853	6803	8179
60°	15240	5773	5835
65°	13648	4282	5301
70°	9654	4502	6261
75°	5552	5020	6698
80°	3503	5553	6428
85°	1900	5939	6321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.0	3.4
10°-20°	846.7	9.7
20°-30°	1668.4	19.0
30°-40°	1721.4	19.6
40°-50°	1446.5	16.5
50°-60°	1066.9	12.2
60°-70°	604.9	6.9
70°-80°	434.3	5.0
80°-90°	294.4	3.4
90°-100°	175.9	2.0
100°-110°	91.9	1.0
110°-120°	51.4	0.6
120°-130°	30.1	0.3
130°-140°	20.9	0.2
140°-150°	7.6	0.1
150°-160°	2.2	0.0
160°-170°	0.5	0.0
170°-180°	0.0	0.0
0°-30°	2816.1	32.1
0°-40°	4537.5	51.8
0°-60°	7051.0	80.4
0°-90°	8384.6	95.7
90°-120°	319.2	3.6
90°-150°	377.7	4.3
90°-180°	380.0	4.3
0°-180°	8765.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3216	3216	3216	3216	3216	
5°	3247	3295	3240	3087	3064	308
15°	3100	2967	2464	2774	3025	874
25°	2754	2458	4254	4777	3964	1264
35°	2245	2765	3305	2240	2064	1388
45°	1466	3693	1379	1245	1306	1155
55°	1165	2072	777	981	1017	1052
65°	867	832	415	508	573	839
75°	228	335	384	552	592	272
85°	33	140	320	392	418	41
90°	2	102	255	315	324	3
95°	1	82	199	231	242	1
105°	1	42	104	124	133	1
115°	2	20	58	82	91	2
125°	2	9	34	53	65	2
135°	2	4	25	51	63	2
145°	2	2	10	18	24	1
155°	3	3	4	5	8	1
165°	3	3	3	1	2	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P236294

CATALOG NUMBER: 4SWLED-64HL-LC-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3215.9	3215.9	3215.9	3215.9	3215.9	3215.9	3215.9	3215.9	3215.9	3215.9	3215.9
1°	3243.1	3240.9	3227.8	3221.3	3220.2	3218.0	3219.1	3221.3	3226.7	3226.7	3251.8
2°	3246.3	3245.3	3236.5	3232.2	3232.2	3232.2	3234.4	3240.9	3245.3	3246.3	3284.4
3°	3247.4	3248.5	3243.1	3239.8	3247.4	3247.4	3250.7	3259.4	3274.6	3280.1	3319.3
4°	3249.6	3254.0	3250.7	3249.6	3264.8	3275.7	3282.3	3294.2	3304.0	3305.1	3320.4
5°	3247.4	3252.9	3252.9	3265.9	3286.6	3295.3	3300.8	3308.4	3293.2	3251.8	3239.8
6°	3245.3	3254.0	3259.4	3283.4	3301.9	3309.5	3310.6	3276.8	3236.5	3188.6	3149.5
7°	3239.8	3248.5	3265.9	3297.5	3309.5	3308.4	3289.9	3220.2	3149.5	3088.5	3071.1
8°	3226.7	3239.8	3274.6	3300.8	3292.1	3258.3	3223.5	3147.3	3080.9	3037.3	3040.6
9°	3211.5	3225.7	3274.6	3293.2	3250.7	3202.8	3159.3	3064.5	3022.1	3015.5	3074.3
10°	3196.3	3219.1	3275.7	3276.8	3184.3	3135.3	3075.4	3011.2	3010.1	3046.0	3110.3
11°	3183.2	3210.4	3269.2	3244.2	3127.7	3073.2	3012.3	2993.8	3036.2	3076.5	3130.9
12°	3164.7	3201.7	3255.1	3200.6	3054.7	3002.5	2970.9	3005.8	3056.9	3093.9	3052.6
13°	3142.9	3184.3	3227.8	3135.3	2994.9	2958.9	2970.9	3028.6	3061.3	3039.5	2855.5
14°	3120.1	3173.4	3195.2	3077.6	2940.4	2949.1	2987.2	3033.0	3038.4	2850.1	2619.3
15°	3100.5	3159.3	3160.3	3013.4	2921.9	2966.6	2996.0	3017.7	2931.7	2667.2	2463.6
16°	3077.6	3144.0	3122.2	2967.6	2939.3	2980.7	2997.0	2978.5	2729.2	2471.2	2387.4
17°	3054.7	3122.2	3074.3	2927.4	2960.0	2982.9	2981.8	2865.3	2579.0	2384.1	2424.4
18°	3028.6	3095.0	3030.8	2899.1	2968.7	2969.8	2944.8	2732.5	2428.8	2366.7	2537.6
19°	2999.2	3063.4	2984.0	2881.6	2957.9	2933.9	2868.6	2584.4	2371.1	2433.1	2666.1
20°	2967.6	3027.5	2941.5	2883.8	2930.6	2877.3	2778.2	2469.0	2367.8	2539.8	2797.8
21°	2928.5	2985.1	2901.2	2894.7	2880.6	2786.9	2662.8	2401.6	2420.1	2638.9	2917.6
22°	2886.0	2940.4	2869.7	2894.7	2804.4	2699.8	2559.4	2374.3	2509.3	2742.3	3036.2
23°	2840.3	2899.1	2840.3	2880.6	2710.7	2603.0	2475.6	2398.3	2573.6	2843.5	3303.0
24°	2798.9	2852.3	2820.7	2846.8	2626.9	2521.3	2423.3	2450.5	2633.4	2957.9	3675.3
25°	2754.3	2807.6	2803.3	2792.4	2550.7	2458.2	2412.4	2493.0	2712.9	3237.6	4254.4
26°	2705.3	2759.7	2786.9	2712.9	2493.0	2425.5	2427.7	2524.6	2819.6	3589.3	4775.9
27°	2653.0	2715.1	2755.4	2625.8	2452.7	2422.2	2459.3	2547.4	3066.7	4140.1	5191.8
28°	2600.8	2663.9	2710.7	2538.7	2428.8	2444.0	2472.3	2596.4	3382.4	4613.7	5399.7
29°	2550.7	2616.0	2660.7	2471.2	2425.5	2471.2	2470.1	2741.2	3873.4	5021.9	5367.0
30°	2506.1	2568.1	2603.0	2426.6	2442.9	2474.5	2469.0	2980.7	4292.5	5230.9	5141.7
32.5°	2379.8	2428.8	2429.9	2386.3	2471.2	2465.8	2660.7	3939.8	4993.6	5024.1	4240.3
35°	2244.8	2260.0	2281.8	2414.6	2489.7	2765.2	3415.1	4564.7	4950.1	4177.1	3305.1
37.5°	2077.1	2075.0	2221.9	2435.3	2858.8	3495.6	4014.9	4663.8	4239.2	3234.4	2488.6
40°	1865.9	1889.9	2211.0	2516.9	3456.5	3809.2	4068.3	4370.9	3286.6	2493.0	2180.6
42.5°	1650.4	1759.3	2211.0	2851.2	3572.9	3767.8	4031.3	3650.2	2603.0	2126.1	1783.2
45°	1466.4	1690.7	2227.4	3127.7	3458.6	3692.7	3734.1	2914.3	2157.7	1646.0	1379.3
47.5°	1330.3	1626.4	2368.9	3019.9	3338.9	3395.5	3239.8	2432.0	1610.1	1209.5	1081.0
50°	1241.1	1550.2	2429.9	2807.6	3090.7	3019.9	2790.2	1794.1	1111.5	978.7	987.4
52.5°	1194.2	1533.9	2263.3	2609.5	2777.1	2624.7	2200.2	1213.8	896.0	876.4	881.8
55°	1164.9	1484.9	2019.4	2338.4	2384.1	2071.7	1624.3	913.4	766.4	755.5	777.3
57.5°	1150.7	1345.6	1778.8	1982.4	1872.5	1594.9	1233.4	696.7	623.8	645.6	710.9
60°	1128.9	1199.7	1428.3	1558.9	1491.4	1262.8	935.1	554.1	542.1	582.4	611.8
62.5°	1026.6	1029.9	999.4	1231.3	1220.4	1024.4	739.2	474.6	454.0	465.9	472.5
65°	866.6	799.1	691.3	1012.4	1007.0	831.7	589.0	376.7	366.9	394.1	414.8



TEST NUMBER: P236294

CATALOG NUMBER: 4SWLED-64HL-LC-UNV-L850-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
67.5°	688.0	575.9	518.2	810.0	800.2	658.6	471.4	324.4	342.9	371.2	401.7
70°	506.2	423.5	408.2	637.9	630.3	528.0	395.2	300.5	330.9	360.3	391.9
72.5°	345.1	313.5	321.2	481.2	493.2	422.4	335.3	285.2	312.4	346.2	394.1
75°	227.5	229.7	247.1	353.8	377.8	335.3	283.0	265.6	295.0	335.3	384.3
77.5°	155.7	163.3	184.0	253.7	282.0	261.3	240.6	244.9	276.5	323.3	374.5
80°	102.3	110.0	131.7	179.6	209.0	207.9	206.8	227.5	263.5	313.5	363.6
82.5°	62.1	69.7	90.4	127.4	157.9	167.7	180.7	211.2	254.7	310.3	350.5
85°	32.7	40.3	59.9	91.4	123.0	140.4	158.9	198.1	250.4	298.3	320.1
87.5°	13.1	20.7	39.2	66.4	100.2	119.8	141.5	188.3	242.8	274.3	286.3
90°	2.2	9.8	25.0	50.1	82.7	102.3	126.3	180.7	225.3	239.5	254.7
92.5°	1.1	5.4	17.4	38.1	69.7	90.4	115.4	167.7	197.0	211.2	225.3
95°	1.1	3.3	13.1	30.5	59.9	81.6	105.6	147.0	168.7	182.9	199.2
97.5°	1.1	3.3	9.8	25.0	54.4	74.0	94.7	124.1	142.6	158.9	173.1
100°	1.1	2.2	8.7	21.8	47.9	63.1	78.4	101.2	117.6	135.0	148.1
102.5°	1.1	2.2	7.6	19.6	41.4	53.3	64.2	81.6	99.1	113.2	126.3
105°	1.1	2.2	6.5	17.4	33.7	42.5	51.2	67.5	82.7	95.8	104.5
107.5°	1.1	2.2	5.4	14.2	27.2	34.8	42.5	56.6	69.7	79.5	88.2
110°	1.1	1.1	4.4	12.0	22.9	29.4	34.8	46.8	57.7	67.5	75.1
112.5°	2.2	2.2	4.4	9.8	18.5	24.0	29.4	39.2	49.0	57.7	65.3
115°	2.2	2.2	3.3	7.6	15.2	19.6	24.0	32.7	41.4	50.1	57.7
117.5°	2.2	2.2	3.3	6.5	12.0	16.3	19.6	27.2	34.8	43.5	51.2
120°	2.2	2.2	2.2	5.4	10.9	13.1	16.3	22.9	30.5	38.1	44.6
122.5°	2.2	2.2	2.2	4.4	8.7	10.9	13.1	19.6	26.1	32.7	39.2
125°	2.2	2.2	2.2	3.3	6.5	8.7	10.9	16.3	21.8	28.3	33.7
127.5°	2.2	2.2	2.2	3.3	5.4	7.6	8.7	13.1	18.5	22.9	29.4
130°	2.2	2.2	2.2	2.2	4.4	5.4	7.6	10.9	15.2	20.7	26.1
132.5°	2.2	2.2	2.2	2.2	4.4	5.4	6.5	9.8	15.2	19.6	25.0
135°	2.2	2.2	2.2	2.2	3.3	4.4	6.5	9.8	14.2	19.6	25.0
137.5°	2.2	2.2	2.2	2.2	3.3	4.4	5.4	8.7	13.1	18.5	22.9
140°	2.2	2.2	2.2	2.2	2.2	3.3	4.4	7.6	10.9	14.2	18.5
142.5°	2.2	2.2	2.2	2.2	2.2	2.2	3.3	5.4	7.6	10.9	14.2
145°	2.2	2.2	2.2	2.2	2.2	2.2	3.3	4.4	5.4	7.6	9.8
147.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.3	4.4	5.4	7.6
150°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.3	3.3	4.4	5.4
152.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.4	4.4
155°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.4
157.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
160°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
162.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
165°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
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



TEST NUMBER: P236294

CATALOG NUMBER: 4SWLED-64HL-LC-UNV-L850-CD1-U

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-64HL-LC-UNV-L850-CD1-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	3215.9	3215.9	3215.9	3215.9	3215.9	3215.9	3215.9	3215.9	3215.9	3215.9
1°	3260.5	3256.1	3252.9	3248.5	3244.2	3243.1	3240.9	3239.8	3231.1	3232.2
2°	3292.1	3295.3	3293.2	3288.8	3292.1	3287.7	3285.5	3281.2	3277.9	3279.0
3°	3330.2	3329.1	3319.3	3307.3	3299.7	3299.7	3283.4	3276.8	3257.2	3274.6
4°	3296.4	3273.6	3236.5	3219.1	3202.8	3200.6	3181.0	3162.5	3152.7	3170.1
5°	3205.0	3171.2	3124.4	3105.9	3087.4	3089.6	3073.2	3061.3	3053.7	3064.5
6°	3113.5	3083.0	3050.4	3030.8	3023.2	3017.7	3015.5	3018.8	3021.0	3019.9
7°	3049.3	3042.8	3039.5	3048.2	3055.8	3055.8	3068.9	3079.8	3083.0	3080.9
8°	3061.3	3083.0	3097.2	3102.6	3103.7	3105.9	3126.6	3126.6	3120.1	3122.2
9°	3110.3	3125.5	3140.7	3121.1	3083.0	3075.4	3003.6	2961.1	2901.2	2918.7
10°	3148.4	3120.1	3002.5	2905.6	2840.3	2818.5	2709.6	2661.7	2599.7	2617.1
11°	3083.0	2930.6	2753.2	2632.3	2570.3	2534.4	2463.6	2434.2	2422.2	2419.0
12°	2840.3	2662.8	2503.9	2434.2	2405.9	2395.0	2387.4	2396.1	2415.7	2421.1
13°	2619.3	2472.3	2399.4	2404.8	2419.0	2436.4	2497.4	2533.3	2568.1	2569.2
14°	2440.7	2396.1	2454.9	2528.9	2571.4	2598.6	2683.5	2742.3	2806.5	2818.5
15°	2393.9	2468.0	2607.3	2720.5	2773.9	2831.6	2943.7	2991.6	3027.5	3025.3
16°	2474.5	2601.9	2795.6	2928.5	2982.9	3021.0	3092.8	3136.4	3178.8	3185.4
17°	2609.5	2804.4	2982.9	3085.2	3124.4	3168.0	3300.8	3392.2	3469.5	3494.6
18°	2751.0	2955.7	3097.2	3262.7	3366.1	3451.0	3636.1	3804.8	3967.0	3997.5
19°	2908.9	3087.4	3323.6	3607.8	3735.1	3925.7	4255.5	4461.3	4625.7	4679.0
20°	3012.3	3294.2	3661.1	4195.6	4375.3	4586.5	4902.2	5058.9	5172.2	5197.2
21°	3194.1	3656.8	4287.1	4815.1	4996.9	5114.5	5323.5	5422.5	5450.8	5487.9
22°	3495.6	4231.6	4879.3	5263.6	5385.5	5453.0	5475.9	5401.9	5335.5	5309.3
23°	4048.7	4797.7	5271.2	5484.6	5472.6	5389.9	5203.7	5028.5	4914.1	4866.2
24°	4649.6	5233.1	5467.2	5286.5	5183.0	5006.7	4769.4	4593.0	4471.1	4412.3
25°	5074.2	5448.7	5250.5	4908.7	4777.0	4594.1	4306.7	4137.9	4018.2	3963.8
26°	5392.1	5344.2	4884.8	4492.8	4338.3	4161.9	3909.3	3814.6	3726.4	3674.2
27°	5421.5	5032.8	4496.1	4063.9	3925.7	3800.5	3611.0	3475.0	3382.4	3333.4
28°	5185.2	4669.2	4082.4	3736.2	3624.1	3471.7	3257.2	3123.3	3058.0	2984.0
29°	4883.7	4252.3	3738.4	3378.1	3256.1	3102.6	2889.3	2712.9	2670.4	2624.7
30°	4478.7	3872.3	3396.6	2994.9	2878.4	2712.9	2549.6	2491.9	2463.6	2427.7
32.5°	3526.1	2917.6	2521.3	2368.9	2334.1	2318.8	2378.7	2388.5	2386.3	2366.7
35°	2638.9	2306.8	2292.7	2269.8	2240.4	2212.1	2156.6	2125.0	2097.8	2064.1
37.5°	2253.5	2161.0	2031.4	1919.3	1869.2	1831.1	1773.4	1741.8	1715.7	1696.1
40°	1974.8	1784.3	1654.7	1576.4	1549.1	1504.5	1468.6	1449.0	1429.4	1403.3
42.5°	1593.8	1423.9	1321.6	1266.1	1249.8	1232.3	1246.5	1269.4	1280.2	1292.2
45°	1226.9	1149.6	1173.6	1224.7	1245.4	1267.2	1298.8	1305.3	1307.5	1306.4
47.5°	1069.1	1124.6	1152.9	1169.2	1165.9	1174.6	1200.8	1218.2	1229.1	1219.3
50°	1015.7	1023.3	1062.5	1102.8	1109.3	1098.4	1103.9	1118.0	1133.3	1135.5
52.5°	918.8	951.5	982.0	1009.2	1033.1	1057.1	1096.3	1115.9	1127.8	1127.8
55°	825.2	885.1	927.5	965.6	980.9	987.4	1007.0	1014.6	1022.2	1016.8
57.5°	766.4	794.7	823.0	817.6	805.6	788.2	799.1	812.1	817.6	814.3
60°	619.4	620.5	623.8	632.5	646.7	659.7	672.8	676.0	681.5	680.4
62.5°	489.9	500.8	518.2	546.5	554.1	554.1	567.2	577.0	580.2	575.9
65°	439.8	461.6	492.1	508.4	508.4	511.7	535.6	563.9	574.8	572.6



TEST NUMBER: P236294

CATALOG NUMBER: 4SWLED-64HL-LC-UNV-L850-CD1-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
67.5°	430.0	468.1	483.4	506.2	523.6	541.1	565.0	581.3	591.1	594.4
70°	436.5	464.9	495.3	526.9	541.1	556.3	584.6	607.5	616.2	617.3
72.5°	435.5	472.5	503.0	541.1	557.4	571.5	592.2	600.9	604.2	604.2
75°	432.2	469.2	511.7	538.9	551.9	566.1	578.1	584.6	590.0	592.2
77.5°	418.0	458.3	479.0	504.0	512.8	519.3	534.5	545.4	553.0	554.1
80°	400.6	419.1	434.4	455.1	461.6	471.4	486.6	493.2	498.6	498.6
82.5°	366.9	379.9	396.3	418.0	430.0	439.8	451.8	456.1	459.4	460.5
85°	330.9	344.0	364.7	383.2	391.9	400.6	411.5	418.0	420.2	418.0
87.5°	298.3	316.8	336.4	350.5	353.8	358.2	366.9	372.3	374.5	376.7
90°	268.9	287.4	302.6	314.6	314.6	319.0	323.3	324.4	322.2	324.4
92.5°	242.8	254.7	263.5	268.9	268.9	272.2	277.6	279.8	278.7	279.8
95°	211.2	219.9	224.3	227.5	230.8	235.1	239.5	240.6	240.6	241.7
97.5°	182.9	189.4	193.8	197.0	198.1	201.4	201.4	202.5	202.5	203.6
100°	157.9	164.4	165.5	164.4	165.5	166.6	167.7	169.8	170.9	172.0
102.5°	133.9	139.3	141.5	142.6	143.7	145.9	148.1	149.1	151.3	151.3
105°	111.0	117.6	121.9	124.1	124.1	126.3	128.5	130.6	131.7	132.8
107.5°	94.7	101.2	106.7	108.9	111.0	112.1	114.3	116.5	117.6	118.7
110°	81.6	88.2	94.7	99.1	100.2	102.3	104.5	106.7	107.8	108.9
112.5°	72.9	78.4	83.8	88.2	90.4	92.5	94.7	96.9	99.1	99.1
115°	64.2	70.8	75.1	79.5	81.6	82.7	86.0	89.3	90.4	91.4
117.5°	57.7	63.1	67.5	71.9	74.0	76.2	78.4	80.6	82.7	82.7
120°	51.2	56.6	61.0	64.2	66.4	67.5	70.8	72.9	74.0	75.1
122.5°	44.6	50.1	53.3	57.7	58.8	61.0	64.2	66.4	67.5	68.6
125°	39.2	43.5	47.9	52.3	53.3	55.5	59.9	62.1	64.2	65.3
127.5°	34.8	39.2	44.6	49.0	51.2	54.4	58.8	62.1	64.2	65.3
130°	31.6	38.1	43.5	49.0	52.3	54.4	59.9	64.2	66.4	66.4
132.5°	31.6	38.1	44.6	50.1	53.3	55.5	61.0	65.3	67.5	68.6
135°	30.5	35.9	42.5	47.9	51.2	53.3	57.7	61.0	63.1	63.1
137.5°	27.2	31.6	35.9	40.3	43.5	45.7	49.0	51.2	53.3	53.3
140°	21.8	25.0	28.3	31.6	33.7	35.9	39.2	40.3	42.5	42.5
142.5°	16.3	18.5	21.8	24.0	25.0	27.2	29.4	31.6	32.7	32.7
145°	12.0	14.2	15.2	17.4	18.5	19.6	21.8	22.9	24.0	24.0
147.5°	8.7	9.8	10.9	13.1	13.1	14.2	16.3	17.4	17.4	17.4
150°	6.5	7.6	8.7	8.7	9.8	9.8	12.0	13.1	13.1	13.1
152.5°	5.4	5.4	6.5	6.5	7.6	7.6	8.7	9.8	9.8	9.8
155°	4.4	4.4	4.4	4.4	5.4	5.4	6.5	6.5	7.6	7.6
157.5°	3.3	3.3	3.3	3.3	3.3	3.3	4.4	4.4	5.4	5.4
160°	3.3	3.3	2.2	2.2	2.2	2.2	3.3	3.3	3.3	3.3
162.5°	3.3	2.2	2.2	2.2	1.1	2.2	2.2	2.2	2.2	2.2
165°	2.2	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1	2.2
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: P236294

CATALOG NUMBER: 4SWLED-64HL-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)