

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: P236297

Luminaire Tested: **4SWLED-67HL-LC-UNV-L850-CD1-U**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P236297  
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-67HL-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**

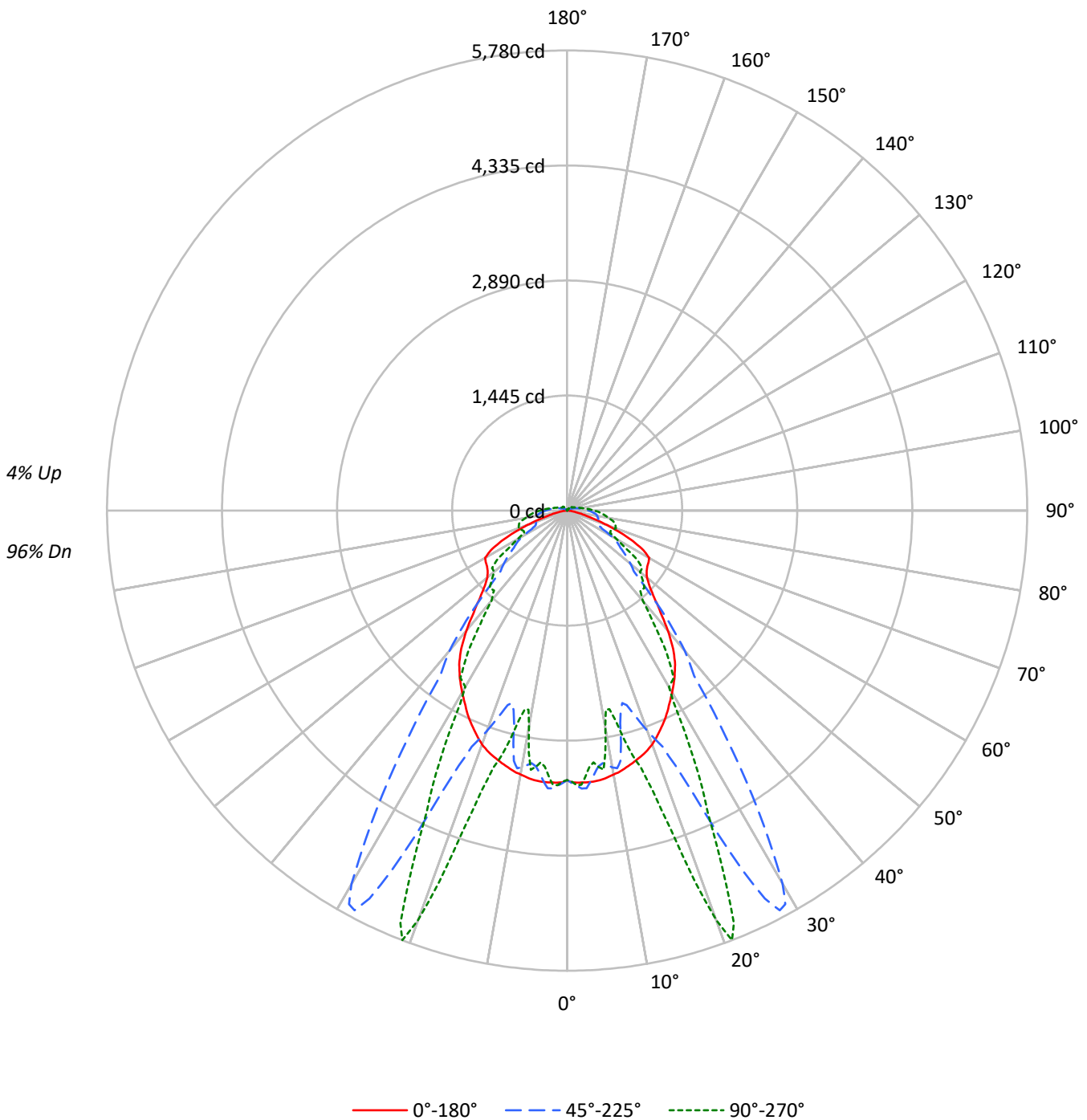
Lumens per Lamp: N/A  
Luminaire Lumens: 9231.0 lumens  
Efficiency: N/A  
Efficacy: 140.5 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.15 / 1.24  
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')  
CIE Type: Direct

Input Watts (W): 65.7  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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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CATALOG NUMBER: 4SWLED-67HL-LC-UNV-L850-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P236297

CATALOG NUMBER: 4SWLED-67HL-LC-UNV-L850-CD1-U

**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°	24303	24303	24303
5°	24558	23948	22484
10°	24372	22666	18795
15°	24024	17838	21437
20°	23554	20281	36616
25°	22583	31113	27979
30°	21419	38230	17301
35°	20194	25188	14967
40°	17862	17177	10438
45°	15122	11333	10053
50°	13983	8546	9122
55°	14589	7164	8614
60°	16049	6080	6145
65°	14372	4509	5584
70°	10167	4741	6594
75°	5847	5287	7054
80°	3692	5848	6769
85°	1999	6254	6658



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	317.0	3.4
10°-20°	891.8	9.7
20°-30°	1757.1	19.0
30°-40°	1812.9	19.6
40°-50°	1523.4	16.5
50°-60°	1123.6	12.2
60°-70°	637.1	6.9
70°-80°	457.4	5.0
80°-90°	310.1	3.4
90°-100°	185.2	2.0
100°-110°	96.7	1.0
110°-120°	54.2	0.6
120°-130°	31.7	0.3
130°-140°	22.0	0.2
140°-150°	8.0	0.1
150°-160°	2.3	0.0
160°-170°	0.6	0.0
170°-180°	0.0	0.0
0°-30°	2965.8	32.1
0°-40°	4778.8	51.8
0°-60°	7425.9	80.4
0°-90°	8830.4	95.7
90°-120°	336.1	3.6
90°-150°	397.8	4.3
90°-180°	401.0	4.3
0°-180°	9231.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3387	3387	3387	3387	3387	
5°	3420	3470	3412	3252	3228	325
15°	3265	3124	2595	2921	3186	920
25°	2901	2589	4481	5031	4174	1331
35°	2364	2912	3481	2360	2174	1462
45°	1544	3889	1453	1312	1376	1217
55°	1227	2182	819	1033	1071	1108
65°	913	876	437	535	603	884
75°	240	353	405	581	624	286
85°	34	148	337	413	440	44
90°	2	108	268	331	342	3
95°	1	86	210	243	254	1
105°	1	45	110	131	140	1
115°	2	21	61	86	96	2
125°	2	9	36	56	69	2
135°	2	5	26	54	66	2
145°	2	2	10	20	25	1
155°	3	3	5	6	8	2
165°	3	3	3	1	2	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P236297

CATALOG NUMBER: 4SWLED-67HL-LC-UNV-L850-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3386.8	3386.8	3386.8	3386.8	3386.8	3386.8	3386.8	3386.8	3386.8	3386.8	3386.8
1°	3415.5	3413.2	3399.4	3392.6	3391.4	3389.1	3390.3	3392.6	3398.3	3398.3	3424.7
2°	3418.9	3417.8	3408.6	3404.0	3404.0	3404.0	3406.3	3413.2	3417.8	3418.9	3459.1
3°	3420.1	3421.2	3415.5	3412.1	3420.1	3420.1	3423.5	3432.7	3448.7	3454.5	3495.8
4°	3422.4	3427.0	3423.5	3422.4	3438.4	3449.9	3456.8	3469.4	3479.7	3480.8	3496.9
5°	3420.1	3425.8	3425.8	3439.6	3461.4	3470.5	3476.3	3484.3	3468.2	3424.7	3412.1
6°	3417.8	3427.0	3432.7	3457.9	3477.4	3485.4	3486.6	3451.0	3408.6	3358.2	3316.9
7°	3412.1	3421.2	3439.6	3472.8	3485.4	3484.3	3464.8	3391.4	3316.9	3252.7	3234.3
8°	3398.3	3412.1	3448.7	3476.3	3467.1	3431.5	3394.9	3314.6	3244.7	3198.8	3202.2
9°	3382.2	3397.2	3448.7	3468.2	3423.5	3373.1	3327.2	3227.5	3182.8	3175.9	3237.8
10°	3366.2	3390.3	3449.9	3451.0	3353.6	3302.0	3238.9	3171.3	3170.1	3208.0	3275.6
11°	3352.4	3381.1	3443.0	3416.6	3294.0	3236.6	3172.4	3152.9	3197.7	3240.1	3297.4
12°	3332.9	3371.9	3428.1	3370.8	3217.1	3162.1	3128.9	3165.6	3219.4	3258.4	3214.9
13°	3310.0	3353.6	3399.4	3302.0	3154.1	3116.3	3128.9	3189.6	3224.0	3201.1	3007.3
14°	3285.9	3342.1	3365.1	3241.2	3096.8	3105.9	3146.1	3194.2	3200.0	3001.6	2758.5
15°	3265.3	3327.2	3328.4	3173.6	3077.3	3124.3	3155.2	3178.2	3087.6	2809.0	2594.6
16°	3241.2	3311.2	3288.2	3125.4	3095.6	3139.2	3156.4	3136.9	2874.3	2602.6	2514.3
17°	3217.1	3288.2	3237.8	3083.0	3117.4	3141.5	3140.3	3017.7	2716.1	2510.9	2553.3
18°	3189.6	3259.6	3191.9	3053.2	3126.6	3127.7	3101.3	2877.8	2557.9	2492.5	2672.5
19°	3158.7	3226.3	3142.6	3034.9	3115.1	3089.9	3021.1	2721.8	2497.1	2562.5	2807.8
20°	3125.4	3188.5	3097.9	3037.1	3086.4	3030.3	2925.9	2600.3	2493.7	2674.8	2946.6
21°	3084.2	3143.8	3055.5	3048.6	3033.7	2935.1	2804.4	2529.2	2548.7	2779.2	3072.7
22°	3039.4	3096.8	3022.2	3048.6	2953.4	2843.4	2695.5	2500.6	2642.7	2888.1	3197.7
23°	2991.3	3053.2	2991.3	3033.7	2854.8	2741.3	2607.2	2525.8	2710.4	2994.7	3478.6
24°	2947.7	3003.9	2970.6	2998.2	2766.6	2655.4	2552.2	2580.8	2773.4	3115.1	3870.7
25°	2900.7	2956.9	2952.3	2940.8	2686.3	2588.9	2540.7	2625.5	2857.1	3409.8	4480.6
26°	2849.1	2906.4	2935.1	2857.1	2625.5	2554.5	2556.8	2658.8	2969.5	3780.1	5029.8
27°	2794.1	2859.4	2901.9	2765.4	2583.1	2551.0	2590.0	2682.9	3229.8	4360.2	5467.8
28°	2739.0	2805.5	2854.8	2673.7	2557.9	2573.9	2603.8	2734.5	3562.3	4859.0	5686.8
29°	2686.3	2755.1	2802.1	2602.6	2554.5	2602.6	2601.5	2886.9	4079.3	5288.9	5652.4
30°	2639.3	2704.7	2741.3	2555.6	2572.8	2606.1	2600.3	3139.2	4520.7	5509.1	5415.0
32.5°	2506.3	2557.9	2559.0	2513.2	2602.6	2596.9	2802.1	4149.3	5259.1	5291.2	4465.7
35°	2364.1	2380.2	2403.1	2543.0	2622.1	2912.2	3596.6	4807.4	5213.2	4399.2	3480.8
37.5°	2187.6	2185.3	2340.1	2564.8	3010.8	3681.5	4228.4	4911.7	4464.6	3406.3	2621.0
40°	1965.1	1990.4	2328.6	2650.8	3640.2	4011.7	4284.6	4603.3	3461.4	2625.5	2296.5
42.5°	1738.1	1852.8	2328.6	3002.7	3762.9	3968.1	4245.6	3844.3	2741.3	2239.2	1878.0
45°	1544.4	1780.6	2345.8	3294.0	3642.5	3889.0	3932.6	3069.2	2272.4	1733.5	1452.6
47.5°	1401.1	1712.9	2494.8	3180.5	3516.4	3576.0	3412.1	2561.3	1695.7	1273.8	1138.5
50°	1307.0	1632.7	2559.0	2956.9	3255.0	3180.5	2938.5	1889.5	1170.6	1030.7	1039.9
52.5°	1257.7	1615.5	2383.6	2748.2	2924.8	2764.3	2317.1	1278.4	943.6	923.0	928.7
55°	1226.8	1563.9	2126.8	2462.7	2510.9	2181.8	1710.6	961.9	807.2	795.7	818.6
57.5°	1211.9	1417.1	1873.4	2087.8	1972.0	1679.7	1299.0	733.8	657.0	679.9	748.7
60°	1188.9	1263.5	1504.2	1641.8	1570.7	1330.0	984.9	583.6	571.0	613.4	644.3
62.5°	1081.2	1084.6	1052.5	1296.7	1285.3	1078.9	778.5	499.9	478.1	490.7	497.6
65°	912.6	841.5	728.0	1066.3	1060.5	875.9	620.3	396.7	386.4	415.0	436.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
67.5°	724.6	606.5	545.7	853.0	842.7	693.6	496.4	341.7	361.2	391.0	423.1
70°	533.1	446.0	429.9	671.9	663.8	556.1	416.2	316.4	348.5	379.5	412.7
72.5°	363.4	330.2	338.2	506.8	519.4	444.9	353.1	300.4	329.1	364.6	415.0
75°	239.6	241.9	260.3	372.6	397.8	353.1	298.1	279.8	310.7	353.1	404.7
77.5°	164.0	172.0	193.8	267.1	296.9	275.2	253.4	258.0	291.2	340.5	394.4
80°	107.8	115.8	138.7	189.2	220.1	219.0	217.8	239.6	277.5	330.2	382.9
82.5°	65.4	73.4	95.2	134.1	166.2	176.6	190.3	222.4	268.3	326.8	369.2
85°	34.4	42.4	63.1	96.3	129.6	147.9	167.4	208.7	263.7	314.1	337.1
87.5°	13.8	21.8	41.3	69.9	105.5	126.1	149.0	198.3	255.7	288.9	301.5
90°	2.3	10.3	26.4	52.7	87.1	107.8	133.0	190.3	237.3	252.2	268.3
92.5°	1.1	5.7	18.3	40.1	73.4	95.2	121.5	176.6	207.5	222.4	237.3
95°	1.1	3.4	13.8	32.1	63.1	86.0	111.2	154.8	177.7	192.6	209.8
97.5°	1.1	3.4	10.3	26.4	57.3	78.0	99.7	130.7	150.2	167.4	182.3
100°	1.1	2.3	9.2	22.9	50.4	66.5	82.5	106.6	123.8	142.2	155.9
102.5°	1.1	2.3	8.0	20.6	43.6	56.2	67.6	86.0	104.3	119.2	133.0
105°	1.1	2.3	6.9	18.3	35.5	44.7	53.9	71.1	87.1	100.9	110.1
107.5°	1.1	2.3	5.7	14.9	28.7	36.7	44.7	59.6	73.4	83.7	92.9
110°	1.1	1.1	4.6	12.6	24.1	31.0	36.7	49.3	60.8	71.1	79.1
112.5°	2.3	2.3	4.6	10.3	19.5	25.2	31.0	41.3	51.6	60.8	68.8
115°	2.3	2.3	3.4	8.0	16.1	20.6	25.2	34.4	43.6	52.7	60.8
117.5°	2.3	2.3	3.4	6.9	12.6	17.2	20.6	28.7	36.7	45.9	53.9
120°	2.3	2.3	2.3	5.7	11.5	13.8	17.2	24.1	32.1	40.1	47.0
122.5°	2.3	2.3	2.3	4.6	9.2	11.5	13.8	20.6	27.5	34.4	41.3
125°	2.3	2.3	2.3	3.4	6.9	9.2	11.5	17.2	22.9	29.8	35.5
127.5°	2.3	2.3	2.3	3.4	5.7	8.0	9.2	13.8	19.5	24.1	31.0
130°	2.3	2.3	2.3	2.3	4.6	5.7	8.0	11.5	16.1	21.8	27.5
132.5°	2.3	2.3	2.3	2.3	4.6	5.7	6.9	10.3	16.1	20.6	26.4
135°	2.3	2.3	2.3	2.3	3.4	4.6	6.9	10.3	14.9	20.6	26.4
137.5°	2.3	2.3	2.3	2.3	3.4	4.6	5.7	9.2	13.8	19.5	24.1
140°	2.3	2.3	2.3	2.3	2.3	3.4	4.6	8.0	11.5	14.9	19.5
142.5°	2.3	2.3	2.3	2.3	2.3	2.3	3.4	5.7	8.0	11.5	14.9
145°	2.3	2.3	2.3	2.3	2.3	2.3	3.4	4.6	5.7	8.0	10.3
147.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.4	4.6	5.7	8.0
150°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.4	3.4	4.6	5.7
152.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.6	4.6
155°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.6
157.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
160°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
162.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
165°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
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: P236297

CATALOG NUMBER: 4SWLED-67HL-LC-UNV-L850-CD1-U

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	3386.8	3386.8	3386.8	3386.8	3386.8	3386.8	3386.8	3386.8	3386.8	3386.8
1°	3433.8	3429.3	3425.8	3421.2	3416.6	3415.5	3413.2	3412.1	3402.9	3404.0
2°	3467.1	3470.5	3468.2	3463.7	3467.1	3462.5	3460.2	3455.6	3452.2	3453.3
3°	3507.2	3506.1	3495.8	3483.1	3475.1	3475.1	3457.9	3451.0	3430.4	3448.7
4°	3471.7	3447.6	3408.6	3390.3	3373.1	3370.8	3350.1	3330.7	3320.3	3338.7
5°	3375.4	3339.8	3290.5	3271.0	3251.5	3253.8	3236.6	3224.0	3216.0	3227.5
6°	3279.1	3247.0	3212.6	3191.9	3183.9	3178.2	3175.9	3179.3	3181.6	3180.5
7°	3211.4	3204.5	3201.1	3210.3	3218.3	3218.3	3232.1	3243.5	3247.0	3244.7
8°	3224.0	3247.0	3261.9	3267.6	3268.7	3271.0	3292.8	3292.8	3285.9	3288.2
9°	3275.6	3291.7	3307.7	3287.1	3247.0	3238.9	3163.3	3118.5	3055.5	3073.8
10°	3315.7	3285.9	3162.1	3060.1	2991.3	2968.4	2853.7	2803.3	2737.9	2756.2
11°	3247.0	3086.4	2899.6	2772.3	2706.9	2669.1	2594.6	2563.6	2551.0	2547.6
12°	2991.3	2804.4	2637.0	2563.6	2533.8	2522.4	2514.3	2523.5	2544.1	2549.9
13°	2758.5	2603.8	2526.9	2532.7	2547.6	2565.9	2630.1	2668.0	2704.7	2705.8
14°	2570.5	2523.5	2585.4	2663.4	2708.1	2736.8	2826.2	2888.1	2955.7	2968.4
15°	2521.2	2599.2	2745.9	2865.2	2921.3	2982.1	3100.2	3150.7	3188.5	3186.2
16°	2606.1	2740.2	2944.3	3084.2	3141.5	3181.6	3257.3	3303.1	3347.9	3354.7
17°	2748.2	2953.4	3141.5	3249.3	3290.5	3336.4	3476.3	3572.6	3654.0	3680.3
18°	2897.3	3112.8	3261.9	3436.1	3545.1	3634.5	3829.4	4007.1	4177.9	4210.0
19°	3063.5	3251.5	3500.3	3799.6	3933.7	4134.4	4481.8	4698.5	4871.6	4927.8
20°	3172.4	3469.4	3855.8	4418.7	4607.9	4830.3	5162.8	5327.9	5447.1	5473.5
21°	3363.9	3851.2	4515.0	5071.1	5262.5	5386.4	5606.5	5710.8	5740.6	5779.6
22°	3681.5	4456.5	5138.7	5543.4	5671.9	5742.9	5767.0	5689.1	5619.1	5591.6
23°	4263.9	5052.7	5551.5	5776.2	5763.6	5676.4	5480.4	5295.8	5175.4	5125.0
24°	4896.8	5511.3	5757.8	5567.5	5458.6	5272.9	5022.9	4837.2	4708.8	4646.9
25°	5344.0	5738.4	5529.7	5169.7	5031.0	4838.3	4535.7	4357.9	4231.8	4174.5
26°	5678.7	5628.3	5144.5	4731.7	4568.9	4383.2	4117.2	4017.4	3924.6	3869.5
27°	5709.7	5300.4	4735.1	4280.0	4134.4	4002.5	3803.0	3659.7	3562.3	3510.7
28°	5460.9	4917.4	4299.5	3934.9	3816.8	3656.3	3430.4	3289.4	3220.6	3142.6
29°	5143.3	4478.3	3937.2	3557.7	3429.3	3267.6	3042.9	2857.1	2812.4	2764.3
30°	4716.8	4078.2	3577.2	3154.1	3031.4	2857.1	2685.2	2624.4	2594.6	2556.8
32.5°	3713.6	3072.7	2655.4	2494.8	2458.1	2442.1	2505.2	2515.5	2513.2	2492.5
35°	2779.2	2429.5	2414.6	2390.5	2359.5	2329.7	2271.3	2238.0	2209.4	2173.8
37.5°	2373.3	2275.9	2139.4	2021.3	1968.6	1928.5	1867.7	1834.4	1806.9	1786.3
40°	2079.8	1879.2	1742.7	1660.2	1631.5	1584.5	1546.7	1526.0	1505.4	1477.9
42.5°	1678.5	1499.7	1391.9	1333.4	1316.2	1297.9	1312.8	1336.8	1348.3	1360.9
45°	1292.1	1210.7	1236.0	1289.8	1311.6	1334.6	1367.8	1374.7	1377.0	1375.8
47.5°	1125.9	1184.4	1214.2	1231.4	1227.9	1237.1	1264.6	1283.0	1294.4	1284.1
50°	1069.7	1077.7	1119.0	1161.4	1168.3	1156.8	1162.6	1177.5	1193.5	1195.8
52.5°	967.7	1002.1	1034.2	1062.8	1088.1	1113.3	1154.6	1175.2	1187.8	1187.8
55°	869.1	932.1	976.8	1017.0	1033.0	1039.9	1060.5	1068.6	1076.6	1070.9
57.5°	807.2	837.0	866.8	861.0	848.4	830.1	841.5	855.3	861.0	857.6
60°	652.4	653.5	657.0	666.1	681.0	694.8	708.6	712.0	717.7	716.6
62.5°	515.9	527.4	545.7	575.6	583.6	583.6	597.3	607.7	611.1	606.5
65°	463.2	486.1	518.2	535.4	535.4	538.9	564.1	593.9	605.4	603.1



TEST NUMBER: P236297

CATALOG NUMBER: 4SWLED-67HL-LC-UNV-L850-CD1-U

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
67.5°	452.9	493.0	509.1	533.1	551.5	569.8	595.0	612.2	622.6	626.0
70°	459.8	489.6	521.7	554.9	569.8	585.9	615.7	639.8	648.9	650.1
72.5°	458.6	497.6	529.7	569.8	587.0	601.9	623.7	632.9	636.3	636.3
75°	455.2	494.2	538.9	567.5	581.3	596.2	608.8	615.7	621.4	623.7
77.5°	440.3	482.7	504.5	530.8	540.0	546.9	562.9	574.4	582.4	583.6
80°	421.9	441.4	457.5	479.2	486.1	496.4	512.5	519.4	525.1	525.1
82.5°	386.4	400.1	417.3	440.3	452.9	463.2	475.8	480.4	483.8	485.0
85°	348.5	362.3	384.1	403.6	412.7	421.9	433.4	440.3	442.6	440.3
87.5°	314.1	333.6	354.3	369.2	372.6	377.2	386.4	392.1	394.4	396.7
90°	283.2	302.7	318.7	331.3	331.3	335.9	340.5	341.7	339.4	341.7
92.5°	255.7	268.3	277.5	283.2	283.2	286.6	292.4	294.7	293.5	294.7
95°	222.4	231.6	236.2	239.6	243.1	247.6	252.2	253.4	253.4	254.5
97.5°	192.6	199.5	204.1	207.5	208.7	212.1	212.1	213.3	213.3	214.4
100°	166.2	173.1	174.3	173.1	174.3	175.4	176.6	178.9	180.0	181.2
102.5°	141.0	146.8	149.0	150.2	151.3	153.6	155.9	157.1	159.4	159.4
105°	116.9	123.8	128.4	130.7	130.7	133.0	135.3	137.6	138.7	139.9
107.5°	99.7	106.6	112.4	114.7	116.9	118.1	120.4	122.7	123.8	125.0
110°	86.0	92.9	99.7	104.3	105.5	107.8	110.1	112.4	113.5	114.7
112.5°	76.8	82.5	88.3	92.9	95.2	97.5	99.7	102.0	104.3	104.3
115°	67.6	74.5	79.1	83.7	86.0	87.1	90.6	94.0	95.2	96.3
117.5°	60.8	66.5	71.1	75.7	78.0	80.3	82.5	84.8	87.1	87.1
120°	53.9	59.6	64.2	67.6	69.9	71.1	74.5	76.8	78.0	79.1
122.5°	47.0	52.7	56.2	60.8	61.9	64.2	67.6	69.9	71.1	72.2
125°	41.3	45.9	50.4	55.0	56.2	58.5	63.1	65.4	67.6	68.8
127.5°	36.7	41.3	47.0	51.6	53.9	57.3	61.9	65.4	67.6	68.8
130°	33.2	40.1	45.9	51.6	55.0	57.3	63.1	67.6	69.9	69.9
132.5°	33.2	40.1	47.0	52.7	56.2	58.5	64.2	68.8	71.1	72.2
135°	32.1	37.8	44.7	50.4	53.9	56.2	60.8	64.2	66.5	66.5
137.5°	28.7	33.2	37.8	42.4	45.9	48.2	51.6	53.9	56.2	56.2
140°	22.9	26.4	29.8	33.2	35.5	37.8	41.3	42.4	44.7	44.7
142.5°	17.2	19.5	22.9	25.2	26.4	28.7	31.0	33.2	34.4	34.4
145°	12.6	14.9	16.1	18.3	19.5	20.6	22.9	24.1	25.2	25.2
147.5°	9.2	10.3	11.5	13.8	13.8	14.9	17.2	18.3	18.3	18.3
150°	6.9	8.0	9.2	9.2	10.3	10.3	12.6	13.8	13.8	13.8
152.5°	5.7	5.7	6.9	6.9	8.0	8.0	9.2	10.3	10.3	10.3
155°	4.6	4.6	4.6	4.6	5.7	5.7	6.9	6.9	8.0	8.0
157.5°	3.4	3.4	3.4	3.4	3.4	3.4	4.6	4.6	5.7	5.7
160°	3.4	3.4	2.3	2.3	2.3	2.3	3.4	3.4	3.4	3.4
162.5°	3.4	2.3	2.3	2.3	1.1	2.3	2.3	2.3	2.3	2.3
165°	2.3	2.3	2.3	1.1	1.1	1.1	1.1	1.1	1.1	2.3
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: P236297

CATALOG NUMBER: 4SWLED-67HL-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)