

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: P236295

Luminaire Tested: **4SWLED-67HL-LC-UNV-L835-CD1-U**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P236295  
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-L835-CD1-U  
Description: METALUX SWLED LINEAR LUMINAIRE  
4FT FIXTURE WITH 2 ROW LED, CLEAR LENS  
Light Source: (224) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

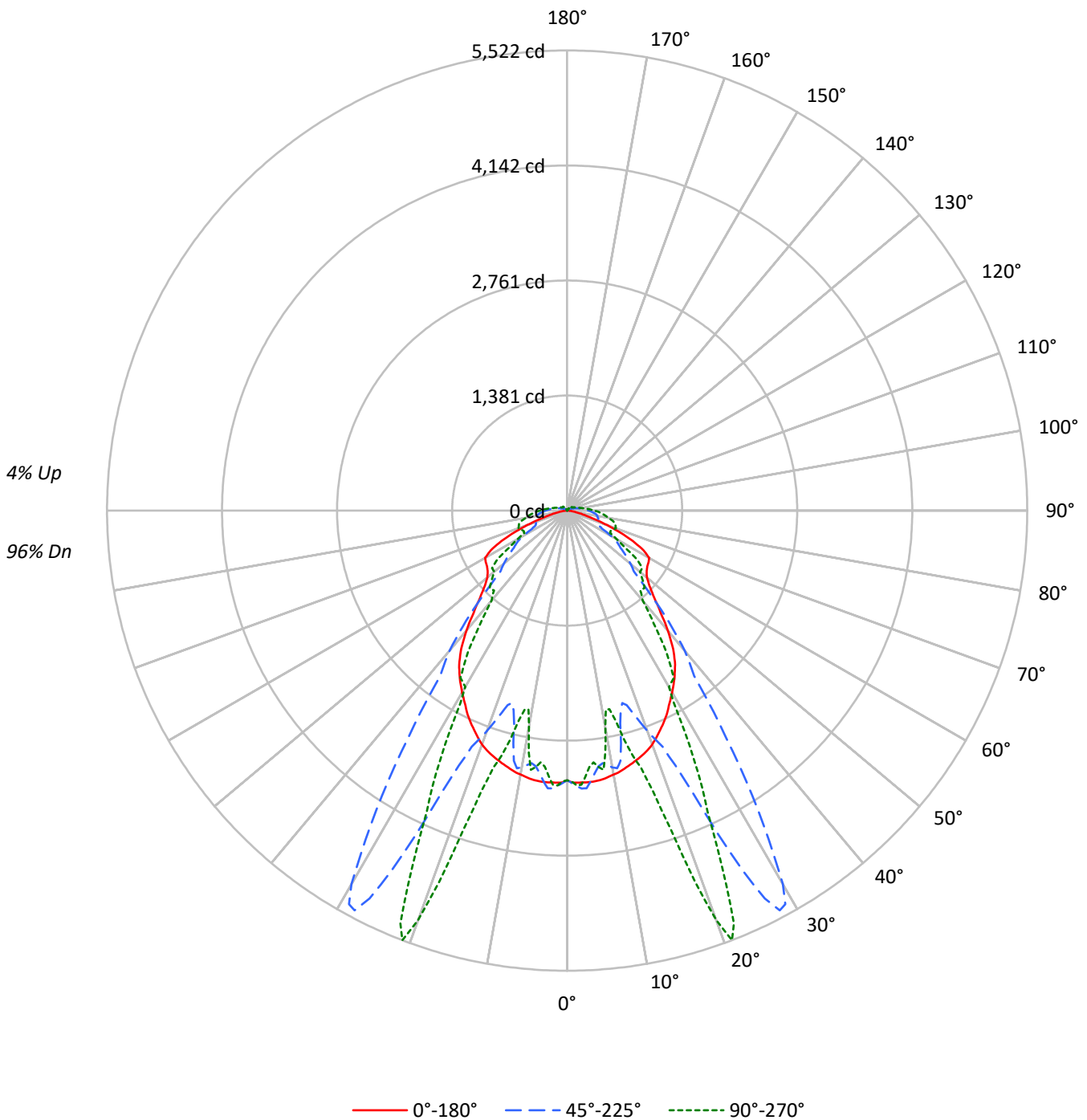
Lumens per Lamp: N/A  
Luminaire Lumens: 8820.0 lumens  
Efficiency: N/A  
Efficacy: 134.2 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.15 / 1.24  
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')  
CIE Type: Direct

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-L835-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°	23221	23221	23221
5°	23464	22882	21483
10°	23286	21657	17958
15°	22954	17044	20482
20°	22506	19378	34985
25°	21578	29728	26733
30°	20465	36528	16531
35°	19296	24067	14301
40°	17066	16412	9973
45°	14448	10829	9606
50°	13361	8166	8716
55°	13939	6846	8230
60°	15335	5810	5872
65°	13733	4308	5335
70°	9715	4531	6300
75°	5589	5051	6740
80°	3527	5588	6468
85°	1912	5976	6361



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	302.9	3.4
10°-20°	852.1	9.7
20°-30°	1678.8	19.0
30°-40°	1732.2	19.6
40°-50°	1455.6	16.5
50°-60°	1073.6	12.2
60°-70°	608.7	6.9
70°-80°	437.0	5.0
80°-90°	296.3	3.4
90°-100°	177.0	2.0
100°-110°	92.4	1.0
110°-120°	51.7	0.6
120°-130°	30.3	0.3
130°-140°	21.0	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°	2833.8	32.1
0°-40°	4566.0	51.8
0°-60°	7095.2	80.4
0°-90°	8437.2	95.7
90°-120°	321.2	3.6
90°-150°	380.1	4.3
90°-180°	383.0	4.3
0°-180°	8820.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3236	3236	3236	3236	3236	
5°	3268	3316	3260	3107	3084	310
15°	3120	2985	2479	2791	3044	879
25°	2772	2474	4281	4807	3989	1272
35°	2259	2782	3326	2254	2077	1397
45°	1476	3716	1388	1253	1315	1162
55°	1172	2085	782	987	1023	1059
65°	872	837	417	512	576	845
75°	229	337	387	555	596	273
85°	33	141	322	394	421	42
90°	2	103	256	317	326	3
95°	1	82	200	232	243	1
105°	1	43	105	125	134	1
115°	2	20	58	82	92	2
125°	2	9	34	54	66	2
135°	2	4	25	52	64	2
145°	2	2	10	19	24	1
155°	3	3	4	6	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: P236295

CATALOG NUMBER: 4SWLED-67HL-LC-UNV-L835-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3236.0	3236.0	3236.0	3236.0	3236.0	3236.0	3236.0	3236.0	3236.0	3236.0	3236.0
1°	3263.4	3261.2	3248.1	3241.5	3240.4	3238.2	3239.3	3241.5	3247.0	3247.0	3272.2
2°	3266.7	3265.6	3256.9	3252.5	3252.5	3252.5	3254.7	3261.2	3265.6	3266.7	3305.1
3°	3267.8	3268.9	3263.4	3260.1	3267.8	3267.8	3271.1	3279.9	3295.2	3300.7	3340.1
4°	3270.0	3274.4	3271.1	3270.0	3285.3	3296.3	3302.9	3314.9	3324.8	3325.9	3341.2
5°	3267.8	3273.3	3273.3	3286.4	3307.2	3316.0	3321.5	3329.2	3313.8	3272.2	3260.1
6°	3265.6	3274.4	3279.9	3304.0	3322.6	3330.3	3331.3	3297.4	3256.9	3208.7	3169.2
7°	3260.1	3268.9	3286.4	3318.2	3330.3	3329.2	3310.5	3240.4	3169.2	3107.9	3090.3
8°	3247.0	3260.1	3295.2	3321.5	3312.7	3278.8	3243.7	3167.0	3100.2	3056.4	3059.7
9°	3231.7	3245.9	3295.2	3313.8	3271.1	3222.9	3179.1	3083.8	3041.0	3034.5	3093.6
10°	3216.3	3239.3	3296.3	3297.4	3204.3	3155.0	3094.7	3030.1	3029.0	3065.1	3129.8
11°	3203.2	3230.6	3289.7	3264.5	3147.3	3092.5	3031.2	3012.6	3055.3	3095.8	3150.6
12°	3184.6	3221.8	3275.5	3220.7	3073.9	3021.3	2989.6	3024.6	3076.1	3113.3	3071.7
13°	3162.6	3204.3	3248.1	3155.0	3013.7	2977.5	2989.6	3047.6	3080.5	3058.6	2873.4
14°	3139.6	3193.3	3215.2	3096.9	2958.9	2967.6	3006.0	3052.0	3057.5	2868.0	2635.7
15°	3119.9	3179.1	3180.2	3032.3	2940.3	2985.2	3014.8	3036.7	2950.1	2683.9	2479.1
16°	3096.9	3163.7	3141.8	2986.3	2957.8	2999.4	3015.8	2997.2	2746.4	2486.7	2402.4
17°	3073.9	3141.8	3093.6	2945.7	2978.6	3001.6	3000.5	2883.3	2595.2	2399.1	2439.6
18°	3047.6	3114.4	3049.8	2917.3	2987.4	2988.5	2963.3	2749.6	2444.0	2381.6	2553.6
19°	3018.0	3082.7	3002.7	2899.7	2976.4	2952.3	2886.6	2600.7	2385.9	2448.4	2682.8
20°	2986.3	3046.5	2960.0	2901.9	2949.0	2895.3	2795.7	2484.5	2382.7	2555.7	2815.4
21°	2946.8	3003.8	2919.4	2912.9	2898.6	2804.4	2679.5	2416.6	2435.2	2655.4	2935.9
22°	2904.1	2958.9	2887.7	2912.9	2821.9	2716.8	2575.5	2389.2	2525.1	2759.5	3055.3
23°	2858.1	2917.3	2858.1	2898.6	2727.7	2619.3	2491.1	2413.3	2589.7	2861.4	3323.7
24°	2816.5	2870.1	2838.4	2864.7	2643.4	2537.1	2438.5	2465.9	2650.0	2976.4	3698.3
25°	2771.6	2825.2	2820.9	2809.9	2566.7	2473.6	2427.6	2508.6	2729.9	3257.9	4281.1
26°	2722.3	2777.0	2804.4	2729.9	2508.6	2440.7	2442.9	2540.4	2837.3	3611.8	4805.9
27°	2669.7	2732.1	2772.7	2642.3	2468.1	2437.4	2474.7	2563.4	3086.0	4166.1	5224.3
28°	2617.1	2680.6	2727.7	2554.7	2444.0	2459.3	2487.8	2612.7	3403.6	4642.6	5433.6
29°	2566.7	2632.4	2677.3	2486.7	2440.7	2486.7	2485.6	2758.4	3897.7	5053.4	5400.7
30°	2521.8	2584.2	2619.3	2441.8	2458.3	2490.0	2484.5	2999.4	4319.5	5263.8	5173.9
32.5°	2394.7	2444.0	2445.1	2401.3	2486.7	2481.3	2677.3	3964.5	5025.0	5055.6	4266.9
35°	2258.9	2274.2	2296.1	2429.8	2505.4	2782.5	3436.5	4593.3	4981.1	4203.3	3325.9
37.5°	2090.2	2088.0	2235.9	2450.6	2876.7	3517.6	4040.1	4693.0	4265.8	3254.7	2504.3
40°	1877.6	1901.7	2224.9	2532.7	3478.1	3833.1	4093.8	4398.3	3307.2	2508.6	2194.2
42.5°	1660.7	1770.3	2224.9	2869.1	3595.4	3791.4	4056.6	3673.1	2619.3	2139.5	1794.4
45°	1475.6	1701.3	2241.3	3147.3	3480.3	3715.9	3757.5	2932.6	2171.2	1656.4	1388.0
47.5°	1338.7	1636.6	2383.8	3038.9	3359.8	3416.8	3260.1	2447.3	1620.2	1217.1	1087.8
50°	1248.8	1560.0	2445.1	2825.2	3110.1	3038.9	2807.7	1805.3	1118.5	984.8	993.6
52.5°	1201.7	1543.5	2277.5	2625.9	2794.6	2641.2	2214.0	1221.5	901.6	881.9	887.3
55°	1172.2	1494.2	2032.1	2353.1	2399.1	2084.7	1634.5	919.1	771.2	760.3	782.2
57.5°	1157.9	1354.0	1790.0	1994.9	1884.2	1604.9	1241.2	701.1	627.7	649.6	715.3
60°	1136.0	1207.2	1437.3	1568.7	1500.8	1270.8	941.0	557.6	545.5	586.1	615.7
62.5°	1033.0	1036.3	1005.6	1239.0	1228.0	1030.8	743.8	477.6	456.8	468.9	475.4
65°	872.0	804.1	695.6	1018.8	1013.3	836.9	592.7	379.0	369.2	396.6	417.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
67.5°	692.3	579.5	521.4	815.0	805.2	662.8	474.3	326.5	345.1	373.6	404.2
70°	509.4	426.1	410.8	641.9	634.3	531.3	397.7	302.4	333.0	362.6	394.4
72.5°	347.3	315.5	323.2	484.2	496.3	425.0	337.4	287.0	314.4	348.4	396.6
75°	229.0	231.1	248.7	356.0	380.1	337.4	284.8	267.3	296.9	337.4	386.7
77.5°	156.7	164.3	185.1	255.2	283.7	262.9	242.1	246.5	278.3	325.4	376.8
80°	103.0	110.6	132.6	180.8	210.3	209.2	208.1	229.0	265.1	315.5	365.9
82.5°	62.4	70.1	90.9	128.2	158.8	168.7	181.8	212.5	256.3	312.2	352.7
85°	32.9	40.5	60.3	92.0	123.8	141.3	159.9	199.4	252.0	300.2	322.1
87.5°	13.1	20.8	39.4	66.8	100.8	120.5	142.4	189.5	244.3	276.1	288.1
90°	2.2	9.9	25.2	50.4	83.3	103.0	127.1	181.8	226.8	241.0	256.3
92.5°	1.1	5.5	17.5	38.3	70.1	90.9	116.1	168.7	198.3	212.5	226.8
95°	1.1	3.3	13.1	30.7	60.3	82.2	106.3	147.9	169.8	184.0	200.5
97.5°	1.1	3.3	9.9	25.2	54.8	74.5	95.3	124.9	143.5	159.9	174.2
100°	1.1	2.2	8.8	21.9	48.2	63.5	78.9	101.9	118.3	135.8	149.0
102.5°	1.1	2.2	7.7	19.7	41.6	53.7	64.6	82.2	99.7	113.9	127.1
105°	1.1	2.2	6.6	17.5	34.0	42.7	51.5	67.9	83.3	96.4	105.2
107.5°	1.1	2.2	5.5	14.2	27.4	35.1	42.7	57.0	70.1	80.0	88.7
110°	1.1	1.1	4.4	12.1	23.0	29.6	35.1	47.1	58.1	67.9	75.6
112.5°	2.2	2.2	4.4	9.9	18.6	24.1	29.6	39.4	49.3	58.1	65.7
115°	2.2	2.2	3.3	7.7	15.3	19.7	24.1	32.9	41.6	50.4	58.1
117.5°	2.2	2.2	3.3	6.6	12.1	16.4	19.7	27.4	35.1	43.8	51.5
120°	2.2	2.2	2.2	5.5	11.0	13.1	16.4	23.0	30.7	38.3	44.9
122.5°	2.2	2.2	2.2	4.4	8.8	11.0	13.1	19.7	26.3	32.9	39.4
125°	2.2	2.2	2.2	3.3	6.6	8.8	11.0	16.4	21.9	28.5	34.0
127.5°	2.2	2.2	2.2	3.3	5.5	7.7	8.8	13.1	18.6	23.0	29.6
130°	2.2	2.2	2.2	2.2	4.4	5.5	7.7	11.0	15.3	20.8	26.3
132.5°	2.2	2.2	2.2	2.2	4.4	5.5	6.6	9.9	15.3	19.7	25.2
135°	2.2	2.2	2.2	2.2	3.3	4.4	6.6	9.9	14.2	19.7	25.2
137.5°	2.2	2.2	2.2	2.2	3.3	4.4	5.5	8.8	13.1	18.6	23.0
140°	2.2	2.2	2.2	2.2	2.2	3.3	4.4	7.7	11.0	14.2	18.6
142.5°	2.2	2.2	2.2	2.2	2.2	2.2	3.3	5.5	7.7	11.0	14.2
145°	2.2	2.2	2.2	2.2	2.2	2.2	3.3	4.4	5.5	7.7	9.9
147.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.3	4.4	5.5	7.7
150°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.3	3.3	4.4	5.5
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



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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: P236295

CATALOG NUMBER: 4SWLED-67HL-LC-UNV-L835-CD1-U

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	3236.0	3236.0	3236.0	3236.0	3236.0	3236.0	3236.0	3236.0	3236.0	3236.0
1°	3281.0	3276.6	3273.3	3268.9	3264.5	3263.4	3261.2	3260.1	3251.4	3252.5
2°	3312.7	3316.0	3313.8	3309.4	3312.7	3308.3	3306.1	3301.8	3298.5	3299.6
3°	3351.1	3350.0	3340.1	3328.1	3320.4	3320.4	3304.0	3297.4	3277.7	3295.2
4°	3317.1	3294.1	3256.9	3239.3	3222.9	3220.7	3201.0	3182.4	3172.5	3190.0
5°	3225.1	3191.1	3144.0	3125.4	3106.8	3109.0	3092.5	3080.5	3072.8	3083.8
6°	3133.1	3102.4	3069.5	3049.8	3042.1	3036.7	3034.5	3037.8	3039.9	3038.9
7°	3068.4	3061.9	3058.6	3067.3	3075.0	3075.0	3088.1	3099.1	3102.4	3100.2
8°	3080.5	3102.4	3116.6	3122.1	3123.2	3125.4	3146.2	3146.2	3139.6	3141.8
9°	3129.8	3145.1	3160.5	3140.7	3102.4	3094.7	3022.4	2979.7	2919.4	2937.0
10°	3168.1	3139.6	3021.3	2923.8	2858.1	2836.2	2726.6	2678.4	2616.0	2633.5
11°	3102.4	2949.0	2770.5	2648.9	2586.4	2550.3	2479.1	2449.5	2437.4	2434.2
12°	2858.1	2679.5	2519.6	2449.5	2421.0	2410.0	2402.4	2411.1	2430.9	2436.3
13°	2635.7	2487.8	2414.4	2419.9	2434.2	2451.7	2513.0	2549.2	2584.2	2585.3
14°	2456.1	2411.1	2470.3	2544.8	2587.5	2614.9	2700.4	2759.5	2824.1	2836.2
15°	2409.0	2483.4	2623.7	2737.6	2791.3	2849.3	2962.2	3010.4	3046.5	3044.3
16°	2490.0	2618.2	2813.2	2946.8	3001.6	3039.9	3112.3	3156.1	3198.8	3205.4
17°	2625.9	2821.9	3001.6	3104.6	3144.0	3187.8	3321.5	3413.5	3491.3	3516.5
18°	2768.3	2974.2	3116.6	3283.1	3387.2	3472.7	3658.9	3828.7	3991.9	4022.6
19°	2927.1	3106.8	3344.5	3630.4	3758.6	3950.3	4282.2	4489.3	4654.7	4708.4
20°	3031.2	3314.9	3684.1	4222.0	4402.7	4615.2	4932.9	5090.7	5204.6	5229.8
21°	3214.1	3679.7	4314.0	4845.3	5028.2	5146.6	5356.9	5456.6	5485.1	5522.3
22°	3517.6	4258.1	4909.9	5296.6	5419.3	5487.2	5510.2	5435.8	5368.9	5342.6
23°	4074.1	4827.8	5304.3	5519.0	5507.0	5423.7	5236.4	5060.0	4945.0	4896.8
24°	4678.8	5266.0	5501.5	5319.6	5215.6	5038.1	4799.3	4621.8	4499.1	4440.0
25°	5106.0	5482.9	5283.5	4939.5	4807.0	4622.9	4333.7	4163.9	4043.4	3988.6
26°	5425.9	5377.7	4915.4	4521.0	4365.5	4188.0	3933.9	3838.6	3749.8	3697.2
27°	5455.5	5064.4	4524.3	4089.4	3950.3	3824.3	3633.7	3496.8	3403.6	3354.4
28°	5217.8	4698.5	4108.0	3759.7	3646.8	3493.5	3277.7	3142.9	3077.2	3002.7
29°	4914.3	4278.9	3761.9	3399.3	3276.6	3122.1	2907.4	2729.9	2687.2	2641.2
30°	4506.8	3896.6	3417.9	3013.7	2896.4	2729.9	2565.6	2507.5	2479.1	2442.9
32.5°	3548.3	2935.9	2537.1	2383.8	2348.7	2333.4	2393.6	2403.5	2401.3	2381.6
35°	2655.4	2321.3	2307.1	2284.1	2254.5	2226.0	2170.1	2138.4	2111.0	2077.0
37.5°	2267.6	2174.5	2044.2	1931.3	1880.9	1842.6	1784.5	1752.8	1726.5	1706.8
40°	1987.2	1795.5	1665.1	1586.3	1558.9	1513.9	1477.8	1458.1	1438.4	1412.1
42.5°	1603.8	1432.9	1329.9	1274.0	1257.6	1240.1	1254.3	1277.3	1288.3	1300.3
45°	1234.6	1156.8	1180.9	1232.4	1253.2	1275.1	1306.9	1313.5	1315.7	1314.6
47.5°	1075.8	1131.6	1160.1	1176.5	1173.3	1182.0	1208.3	1225.8	1236.8	1226.9
50°	1022.1	1029.7	1069.2	1109.7	1116.3	1105.3	1110.8	1125.1	1140.4	1142.6
52.5°	924.6	957.4	988.1	1015.5	1039.6	1063.7	1103.1	1122.9	1134.9	1134.9
55°	830.4	890.6	933.3	971.7	987.0	993.6	1013.3	1021.0	1028.7	1023.2
57.5°	771.2	799.7	828.2	822.7	810.7	793.1	804.1	817.2	822.7	819.4
60°	623.3	624.4	627.7	636.5	650.7	663.9	677.0	680.3	685.8	684.7
62.5°	493.0	503.9	521.4	549.9	557.6	557.6	570.7	580.6	583.9	579.5
65°	442.6	464.5	495.2	511.6	511.6	514.9	539.0	567.5	578.4	576.2



TEST NUMBER: P236295

CATALOG NUMBER: 4SWLED-67HL-LC-UNV-L835-CD1-U

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
67.5°	432.7	471.1	486.4	509.4	526.9	544.5	568.6	585.0	594.8	598.1
70°	439.3	467.8	498.4	530.2	544.5	559.8	588.3	611.3	620.0	621.1
72.5°	438.2	475.4	506.1	544.5	560.9	575.1	595.9	604.7	608.0	608.0
75°	434.9	472.2	514.9	542.3	555.4	569.6	581.7	588.3	593.7	595.9
77.5°	420.7	461.2	482.0	507.2	516.0	522.5	537.9	548.8	556.5	557.6
80°	403.1	421.8	437.1	457.9	464.5	474.3	489.7	496.3	501.7	501.7
82.5°	369.2	382.3	398.8	420.7	432.7	442.6	454.6	459.0	462.3	463.4
85°	333.0	346.2	367.0	385.6	394.4	403.1	414.1	420.7	422.9	420.7
87.5°	300.2	318.8	338.5	352.7	356.0	360.4	369.2	374.7	376.8	379.0
90°	270.6	289.2	304.5	316.6	316.6	321.0	325.4	326.5	324.3	326.5
92.5°	244.3	256.3	265.1	270.6	270.6	273.9	279.3	281.5	280.4	281.5
95°	212.5	221.3	225.7	229.0	232.2	236.6	241.0	242.1	242.1	243.2
97.5°	184.0	190.6	195.0	198.3	199.4	202.7	202.7	203.8	203.8	204.9
100°	158.8	165.4	166.5	165.4	166.5	167.6	168.7	170.9	172.0	173.1
102.5°	134.7	140.2	142.4	143.5	144.6	146.8	149.0	150.1	152.3	152.3
105°	111.7	118.3	122.7	124.9	124.9	127.1	129.3	131.5	132.6	133.6
107.5°	95.3	101.9	107.4	109.5	111.7	112.8	115.0	117.2	118.3	119.4
110°	82.2	88.7	95.3	99.7	100.8	103.0	105.2	107.4	108.5	109.5
112.5°	73.4	78.9	84.4	88.7	90.9	93.1	95.3	97.5	99.7	99.7
115°	64.6	71.2	75.6	80.0	82.2	83.3	86.5	89.8	90.9	92.0
117.5°	58.1	63.5	67.9	72.3	74.5	76.7	78.9	81.1	83.3	83.3
120°	51.5	57.0	61.3	64.6	66.8	67.9	71.2	73.4	74.5	75.6
122.5°	44.9	50.4	53.7	58.1	59.2	61.3	64.6	66.8	67.9	69.0
125°	39.4	43.8	48.2	52.6	53.7	55.9	60.3	62.4	64.6	65.7
127.5°	35.1	39.4	44.9	49.3	51.5	54.8	59.2	62.4	64.6	65.7
130°	31.8	38.3	43.8	49.3	52.6	54.8	60.3	64.6	66.8	66.8
132.5°	31.8	38.3	44.9	50.4	53.7	55.9	61.3	65.7	67.9	69.0
135°	30.7	36.2	42.7	48.2	51.5	53.7	58.1	61.3	63.5	63.5
137.5°	27.4	31.8	36.2	40.5	43.8	46.0	49.3	51.5	53.7	53.7
140°	21.9	25.2	28.5	31.8	34.0	36.2	39.4	40.5	42.7	42.7
142.5°	16.4	18.6	21.9	24.1	25.2	27.4	29.6	31.8	32.9	32.9
145°	12.1	14.2	15.3	17.5	18.6	19.7	21.9	23.0	24.1	24.1
147.5°	8.8	9.9	11.0	13.1	13.1	14.2	16.4	17.5	17.5	17.5
150°	6.6	7.7	8.8	8.8	9.9	9.9	12.1	13.1	13.1	13.1
152.5°	5.5	5.5	6.6	6.6	7.7	7.7	8.8	9.9	9.9	9.9
155°	4.4	4.4	4.4	4.4	5.5	5.5	6.6	6.6	7.7	7.7
157.5°	3.3	3.3	3.3	3.3	3.3	3.3	4.4	4.4	5.5	5.5
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: P236295

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**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)