

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: P236298

Luminaire Tested: **4SWLED-72HL-LC-UNV-L835-CD1-U**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P236298  
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-72HL-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**

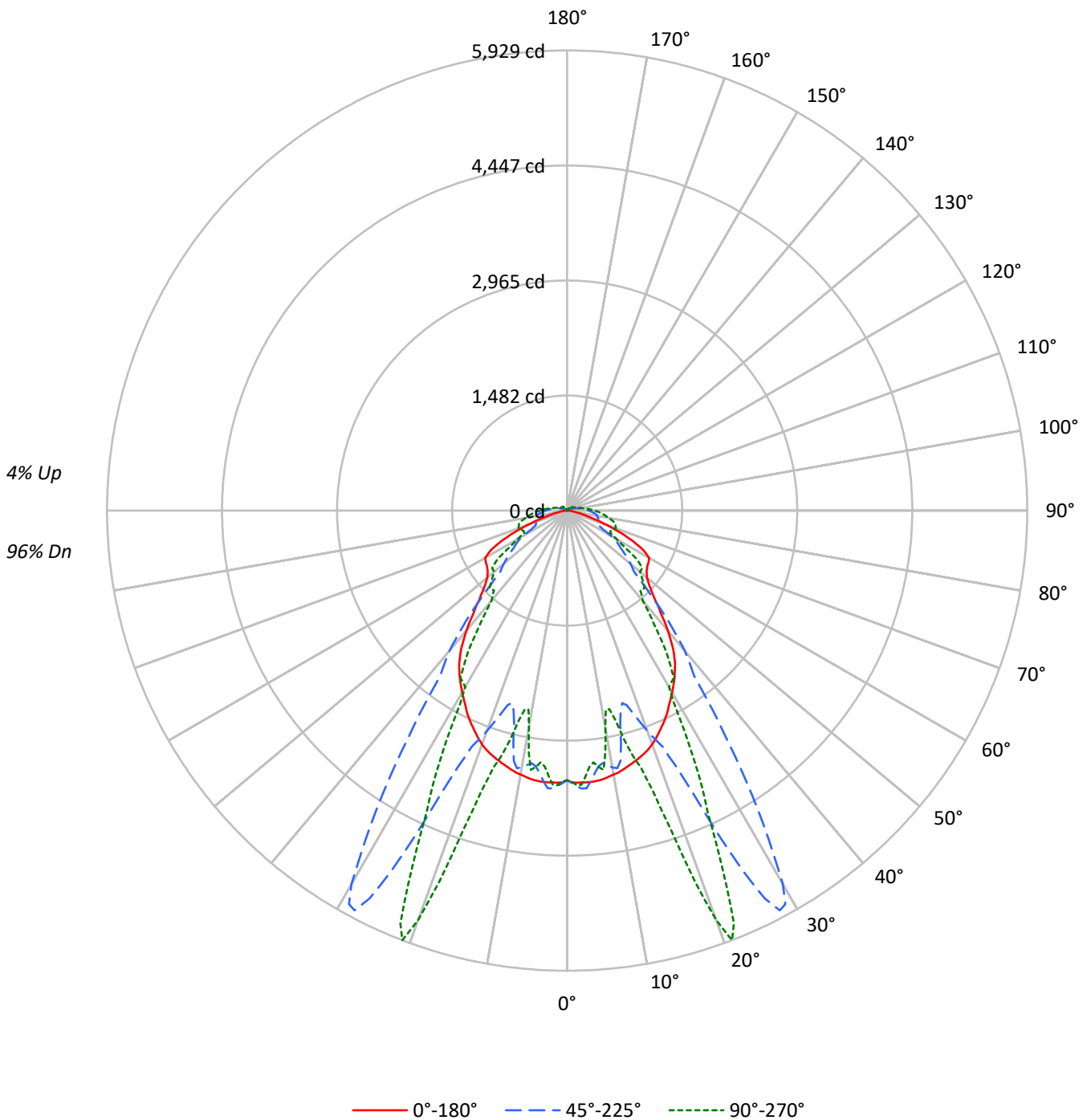
Lumens per Lamp: N/A  
Luminaire Lumens: 9470.0 lumens  
Efficiency: N/A  
Efficacy: 132.4 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.15 / 1.24  
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')  
CIE Type: Direct

Input Watts (W): 71.5  
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: P236298

CATALOG NUMBER: 4SWLED-72HL-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°	24933	24933	24933
5°	25193	24568	23066
10°	25003	23253	19282
15°	24645	18300	21992
20°	24164	20807	37563
25°	23168	31918	28704
30°	21973	39220	17749
35°	20717	25841	15355
40°	18324	17622	10708
45°	15513	11627	10314
50°	14346	8767	9358
55°	14966	7350	8837
60°	16465	6237	6304
65°	14745	4625	5728
70°	10430	4864	6765
75°	5999	5424	7238
80°	3787	6001	6945
85°	2052	6416	6830



TEST NUMBER: P236298

CATALOG NUMBER: 4SWLED-72HL-LC-UNV-L835-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	325.2	3.4
10°-20°	914.8	9.7
20°-30°	1802.6	19.0
30°-40°	1859.9	19.6
40°-50°	1562.9	16.5
50°-60°	1152.7	12.2
60°-70°	653.6	6.9
70°-80°	469.2	5.0
80°-90°	318.1	3.4
90°-100°	190.0	2.0
100°-110°	99.3	1.0
110°-120°	55.6	0.6
120°-130°	32.5	0.3
130°-140°	22.5	0.2
140°-150°	8.2	0.1
150°-160°	2.3	0.0
160°-170°	0.6	0.0
170°-180°	0.0	0.0
0°-30°	3042.6	32.1
0°-40°	4902.5	51.8
0°-60°	7618.1	80.4
0°-90°	9059.0	95.7
90°-120°	344.8	3.6
90°-150°	408.1	4.3
90°-180°	411.0	4.3
0°-180°	9470.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3474	3474	3474	3474	3474	
5°	3509	3560	3500	3336	3311	333
15°	3350	3205	2662	2997	3269	944
25°	2976	2656	4597	5161	4283	1366
35°	2425	2988	3571	2421	2230	1500
45°	1584	3990	1490	1346	1412	1248
55°	1258	2238	840	1060	1099	1137
65°	936	899	448	549	619	907
75°	246	362	415	596	640	293
85°	35	152	346	423	452	45
90°	2	111	275	340	350	3
95°	1	88	215	249	261	1
105°	1	46	113	134	144	1
115°	2	21	62	88	99	2
125°	2	9	36	58	71	2
135°	2	5	27	55	68	2
145°	2	2	11	20	26	2
155°	4	4	5	6	8	2
165°	4	4	4	1	2	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P236298

CATALOG NUMBER: 4SWLED-72HL-LC-UNV-L835-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3474.5	3474.5	3474.5	3474.5	3474.5	3474.5	3474.5	3474.5	3474.5	3474.5	3474.5
1°	3503.9	3501.6	3487.5	3480.4	3479.2	3476.9	3478.1	3480.4	3486.3	3486.3	3513.3
2°	3507.5	3506.3	3496.9	3492.2	3492.2	3492.2	3494.5	3501.6	3506.3	3507.5	3548.6
3°	3508.6	3509.8	3503.9	3500.4	3508.6	3508.6	3512.2	3521.6	3538.0	3543.9	3586.3
4°	3511.0	3515.7	3512.2	3511.0	3527.5	3539.2	3546.3	3559.2	3569.8	3571.0	3587.4
5°	3508.6	3514.5	3514.5	3528.6	3551.0	3560.4	3566.3	3574.5	3558.0	3513.3	3500.4
6°	3506.3	3515.7	3521.6	3547.4	3567.4	3575.7	3576.9	3540.4	3496.9	3445.1	3402.8
7°	3500.4	3509.8	3528.6	3562.7	3575.7	3574.5	3554.5	3479.2	3402.8	3336.9	3318.1
8°	3486.3	3500.4	3538.0	3566.3	3556.9	3520.4	3482.8	3400.4	3328.7	3281.6	3285.2
9°	3469.8	3485.1	3538.0	3558.0	3512.2	3460.4	3413.4	3311.0	3265.2	3258.1	3321.6
10°	3453.4	3478.1	3539.2	3540.4	3440.4	3387.5	3322.8	3253.4	3252.2	3291.0	3360.4
11°	3439.2	3468.6	3532.2	3505.1	3379.2	3320.4	3254.6	3234.6	3280.4	3324.0	3382.8
12°	3419.2	3459.2	3516.9	3458.1	3300.4	3244.0	3209.9	3247.5	3302.8	3342.8	3298.1
13°	3395.7	3440.4	3487.5	3387.5	3235.8	3196.9	3209.9	3272.2	3307.5	3284.0	3085.2
14°	3371.0	3428.7	3452.2	3325.1	3176.9	3186.4	3227.5	3276.9	3282.8	3079.3	2830.0
15°	3349.8	3413.4	3414.5	3255.7	3156.9	3205.2	3236.9	3260.5	3167.5	2881.7	2661.8
16°	3325.1	3396.9	3373.4	3206.3	3175.8	3220.5	3238.1	3218.1	2948.8	2670.0	2579.4
17°	3300.4	3373.4	3321.6	3162.8	3198.1	3222.8	3221.6	3095.8	2786.4	2575.9	2619.4
18°	3272.2	3344.0	3274.6	3132.2	3207.5	3208.7	3181.6	2952.3	2624.1	2557.1	2741.7
19°	3240.5	3309.9	3224.0	3113.4	3195.8	3169.9	3099.3	2792.3	2561.8	2628.8	2880.5
20°	3206.3	3271.0	3178.1	3115.8	3166.4	3108.7	3001.7	2667.6	2558.3	2744.1	3022.9
21°	3164.0	3225.2	3134.6	3127.5	3112.3	3011.1	2877.0	2594.7	2614.7	2851.1	3152.2
22°	3118.1	3176.9	3100.5	3127.5	3029.9	2917.0	2765.3	2565.3	2711.2	2962.9	3280.4
23°	3068.7	3132.2	3068.7	3112.3	2928.8	2812.3	2674.7	2591.2	2780.6	3072.3	3568.6
24°	3024.0	3081.7	3047.6	3075.8	2838.2	2724.1	2618.2	2647.6	2845.3	3195.8	3970.9
25°	2975.8	3033.4	3028.7	3017.0	2755.9	2655.9	2606.5	2693.5	2931.1	3498.0	4596.6
26°	2922.9	2981.7	3011.1	2931.1	2693.5	2620.6	2622.9	2727.6	3046.4	3878.0	5160.0
27°	2866.4	2933.5	2977.0	2837.0	2650.0	2617.1	2657.1	2752.3	3313.4	4473.1	5609.3
28°	2810.0	2878.2	2928.8	2742.9	2624.1	2640.6	2671.2	2805.3	3654.5	4984.8	5834.0
29°	2755.9	2826.4	2874.7	2670.0	2620.6	2670.0	2668.8	2961.7	4185.0	5425.9	5798.7
30°	2707.6	2774.7	2812.3	2621.8	2639.4	2673.5	2667.6	3220.5	4637.8	5651.7	5555.2
32.5°	2571.2	2624.1	2625.3	2578.3	2670.0	2664.1	2874.7	4256.7	5395.3	5428.2	4581.3
35°	2425.3	2441.8	2465.3	2608.8	2690.0	2987.6	3689.8	4931.8	5348.2	4513.1	3571.0
37.5°	2244.2	2241.9	2400.6	2631.2	3088.7	3776.8	4337.9	5038.9	4580.2	3494.5	2688.8
40°	2016.0	2041.9	2388.9	2719.4	3734.5	4115.6	4395.5	4722.5	3551.0	2693.5	2355.9
42.5°	1783.1	1900.8	2388.9	3080.5	3860.3	4070.9	4355.5	3943.8	2812.3	2297.1	1926.6
45°	1584.4	1826.7	2406.5	3379.2	3736.8	3989.7	4034.4	3148.7	2331.2	1778.4	1490.3
47.5°	1437.3	1757.3	2559.4	3262.8	3607.4	3668.6	3500.4	2627.7	1739.6	1306.8	1168.0
50°	1340.9	1674.9	2625.3	3033.4	3339.3	3262.8	3014.6	1938.4	1200.9	1057.4	1066.8
52.5°	1290.3	1657.3	2445.3	2819.4	3000.5	2835.8	2377.1	1311.5	968.0	946.8	952.7
55°	1258.5	1604.3	2181.9	2526.5	2575.9	2238.3	1754.9	986.8	828.1	816.3	839.8
57.5°	1243.3	1453.8	1921.9	2141.9	2023.1	1723.1	1332.6	752.8	674.0	697.5	768.1
60°	1219.7	1296.2	1543.2	1684.3	1611.4	1364.4	1010.4	598.7	585.8	629.3	661.0
62.5°	1109.2	1112.7	1079.8	1330.3	1318.5	1106.8	798.6	512.8	490.5	503.4	510.5
65°	936.3	863.3	746.9	1093.9	1088.0	898.6	636.3	407.0	396.4	425.8	448.1



TEST NUMBER: P236298

CATALOG NUMBER: 4SWLED-72HL-LC-UNV-L835-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
67.5°	743.4	622.2	559.9	875.1	864.5	711.6	509.3	350.5	370.5	401.1	434.0
70°	546.9	457.5	441.1	689.3	681.0	570.5	427.0	324.6	357.6	389.3	423.4
72.5°	372.9	338.7	347.0	519.9	532.8	456.4	362.3	308.2	337.6	374.0	425.8
75°	245.8	248.2	267.0	382.3	408.1	362.3	305.8	287.0	318.8	362.3	415.2
77.5°	168.2	176.4	198.8	274.1	304.6	282.3	259.9	264.6	298.8	349.3	404.6
80°	110.6	118.8	142.3	194.1	225.8	224.7	223.5	245.8	284.6	338.7	392.9
82.5°	67.0	75.3	97.6	137.6	170.6	181.1	195.3	228.2	275.2	335.2	378.7
85°	35.3	43.5	64.7	98.8	132.9	151.7	171.7	214.1	270.5	322.3	345.8
87.5°	14.1	22.3	42.3	71.7	108.2	129.4	152.9	203.5	262.3	296.4	309.3
90°	2.4	10.6	27.1	54.1	89.4	110.6	136.4	195.3	243.5	258.8	275.2
92.5°	1.2	5.9	18.8	41.2	75.3	97.6	124.7	181.1	212.9	228.2	243.5
95°	1.2	3.5	14.1	32.9	64.7	88.2	114.1	158.8	182.3	197.6	215.2
97.5°	1.2	3.5	10.6	27.1	58.8	80.0	102.3	134.1	154.1	171.7	187.0
100°	1.2	2.4	9.4	23.5	51.8	68.2	84.7	109.4	127.0	145.8	160.0
102.5°	1.2	2.4	8.2	21.2	44.7	57.6	69.4	88.2	107.0	122.3	136.4
105°	1.2	2.4	7.1	18.8	36.5	45.9	55.3	72.9	89.4	103.5	112.9
107.5°	1.2	2.4	5.9	15.3	29.4	37.6	45.9	61.2	75.3	85.9	95.3
110°	1.2	1.2	4.7	12.9	24.7	31.8	37.6	50.6	62.3	72.9	81.2
112.5°	2.4	2.4	4.7	10.6	20.0	25.9	31.8	42.3	52.9	62.3	70.6
115°	2.4	2.4	3.5	8.2	16.5	21.2	25.9	35.3	44.7	54.1	62.3
117.5°	2.4	2.4	3.5	7.1	12.9	17.6	21.2	29.4	37.6	47.0	55.3
120°	2.4	2.4	2.4	5.9	11.8	14.1	17.6	24.7	32.9	41.2	48.2
122.5°	2.4	2.4	2.4	4.7	9.4	11.8	14.1	21.2	28.2	35.3	42.3
125°	2.4	2.4	2.4	3.5	7.1	9.4	11.8	17.6	23.5	30.6	36.5
127.5°	2.4	2.4	2.4	3.5	5.9	8.2	9.4	14.1	20.0	24.7	31.8
130°	2.4	2.4	2.4	2.4	4.7	5.9	8.2	11.8	16.5	22.3	28.2
132.5°	2.4	2.4	2.4	2.4	4.7	5.9	7.1	10.6	16.5	21.2	27.1
135°	2.4	2.4	2.4	2.4	3.5	4.7	7.1	10.6	15.3	21.2	27.1
137.5°	2.4	2.4	2.4	2.4	3.5	4.7	5.9	9.4	14.1	20.0	24.7
140°	2.4	2.4	2.4	2.4	2.4	3.5	4.7	8.2	11.8	15.3	20.0
142.5°	2.4	2.4	2.4	2.4	2.4	2.4	3.5	5.9	8.2	11.8	15.3
145°	2.4	2.4	2.4	2.4	2.4	2.4	3.5	4.7	5.9	8.2	10.6
147.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.5	4.7	5.9	8.2
150°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.5	3.5	4.7	5.9
152.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.7	4.7
155°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.7
157.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
160°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
162.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
165°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
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: P236298

CATALOG NUMBER: 4SWLED-72HL-LC-UNV-L835-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





TEST NUMBER: P236298

CATALOG NUMBER: 4SWLED-72HL-LC-UNV-L835-CD1-U

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	3474.5	3474.5	3474.5	3474.5	3474.5	3474.5	3474.5	3474.5	3474.5	3474.5
1°	3522.7	3518.0	3514.5	3509.8	3505.1	3503.9	3501.6	3500.4	3491.0	3492.2
2°	3556.9	3560.4	3558.0	3553.3	3556.9	3552.2	3549.8	3545.1	3541.6	3542.7
3°	3598.0	3596.8	3586.3	3573.3	3565.1	3565.1	3547.4	3540.4	3519.2	3538.0
4°	3561.6	3536.9	3496.9	3478.1	3460.4	3458.1	3436.9	3416.9	3406.3	3425.1
5°	3462.8	3426.3	3375.7	3355.7	3335.7	3338.1	3320.4	3307.5	3299.3	3311.0
6°	3364.0	3331.0	3295.7	3274.6	3266.3	3260.5	3258.1	3261.6	3264.0	3262.8
7°	3294.6	3287.5	3284.0	3293.4	3301.6	3301.6	3315.7	3327.5	3331.0	3328.7
8°	3307.5	3331.0	3346.3	3352.2	3353.4	3355.7	3378.1	3378.1	3371.0	3373.4
9°	3360.4	3376.9	3393.4	3372.2	3331.0	3322.8	3245.2	3199.3	3134.6	3153.4
10°	3401.6	3371.0	3244.0	3139.3	3068.7	3045.2	2927.6	2875.8	2808.8	2827.6
11°	3331.0	3166.4	2974.6	2844.1	2777.0	2738.2	2661.8	2630.0	2617.1	2613.5
12°	3068.7	2877.0	2705.3	2630.0	2599.4	2587.7	2579.4	2588.8	2610.0	2615.9
13°	2830.0	2671.2	2592.4	2598.2	2613.5	2632.4	2698.2	2737.0	2774.7	2775.9
14°	2637.1	2588.8	2652.4	2732.3	2778.2	2807.6	2899.4	2962.9	3032.3	3045.2
15°	2586.5	2666.5	2817.0	2939.3	2997.0	3059.3	3180.5	3232.2	3271.0	3268.7
16°	2673.5	2811.1	3020.5	3164.0	3222.8	3264.0	3341.6	3388.7	3434.5	3441.6
17°	2819.4	3029.9	3222.8	3333.4	3375.7	3422.8	3566.3	3665.1	3748.6	3775.6
18°	2972.3	3193.4	3346.3	3525.1	3636.8	3728.6	3928.5	4110.9	4286.1	4319.0
19°	3142.8	3335.7	3591.0	3898.0	4035.6	4241.4	4597.8	4820.1	4997.7	5055.3
20°	3254.6	3559.2	3955.6	4533.1	4727.2	4955.4	5296.5	5465.8	5588.2	5615.2
21°	3451.0	3950.9	4631.9	5202.4	5398.8	5525.8	5751.7	5858.7	5889.3	5929.3
22°	3776.8	4571.9	5271.8	5687.0	5818.7	5891.6	5916.3	5836.4	5764.6	5736.4
23°	4374.3	5183.6	5695.2	5925.7	5912.8	5823.4	5622.3	5432.9	5309.4	5257.7
24°	5023.6	5654.0	5906.9	5711.7	5599.9	5409.4	5153.0	4962.4	4830.7	4767.2
25°	5482.3	5886.9	5672.9	5303.5	5161.2	4963.6	4653.1	4470.8	4341.4	4282.6
26°	5825.8	5774.0	5277.7	4854.2	4687.2	4496.6	4223.8	4121.4	4026.2	3969.7
27°	5857.5	5437.6	4857.7	4390.8	4241.4	4106.1	3901.5	3754.5	3654.5	3601.6
28°	5602.3	5044.8	4410.8	4036.8	3915.6	3750.9	3519.2	3374.5	3304.0	3224.0
29°	5276.5	4594.3	4039.1	3649.8	3518.0	3352.2	3121.7	2931.1	2885.2	2835.8
30°	4838.9	4183.8	3669.8	3235.8	3109.9	2931.1	2754.7	2692.3	2661.8	2622.9
32.5°	3809.7	3152.2	2724.1	2559.4	2521.8	2505.3	2570.0	2580.6	2578.3	2557.1
35°	2851.1	2492.4	2477.1	2452.4	2420.6	2390.1	2330.1	2296.0	2266.6	2230.1
37.5°	2434.8	2334.8	2194.8	2073.7	2019.6	1978.4	1916.0	1881.9	1853.7	1832.5
40°	2133.6	1927.8	1787.8	1703.2	1673.7	1625.5	1586.7	1565.5	1544.4	1516.1
42.5°	1722.0	1538.5	1427.9	1367.9	1350.3	1331.5	1346.8	1371.5	1383.2	1396.2
45°	1325.6	1242.1	1268.0	1323.2	1345.6	1369.1	1403.2	1410.3	1412.6	1411.5
47.5°	1155.0	1215.0	1245.6	1263.2	1259.7	1269.1	1297.4	1316.2	1327.9	1317.4
50°	1097.4	1105.6	1148.0	1191.5	1198.6	1186.8	1192.7	1208.0	1224.4	1226.8
52.5°	992.7	1028.0	1060.9	1090.3	1116.2	1142.1	1184.4	1205.6	1218.6	1218.6
55°	891.6	956.3	1002.1	1043.3	1059.8	1066.8	1088.0	1096.2	1104.5	1098.6
57.5°	828.1	858.6	889.2	883.3	870.4	851.6	863.3	877.5	883.3	879.8
60°	669.3	670.4	674.0	683.4	698.7	712.8	726.9	730.4	736.3	735.1
62.5°	529.3	541.1	559.9	590.5	598.7	598.7	612.8	623.4	626.9	622.2
65°	475.2	498.7	531.6	549.3	549.3	552.8	578.7	609.3	621.0	618.7



TEST NUMBER: P236298

CATALOG NUMBER: 4SWLED-72HL-LC-UNV-L835-CD1-U

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
67.5°	464.6	505.8	522.2	546.9	565.8	584.6	610.5	628.1	638.7	642.2
70°	471.7	502.2	535.2	569.3	584.6	601.0	631.6	656.3	665.7	666.9
72.5°	470.5	510.5	543.4	584.6	602.2	617.5	639.9	649.3	652.8	652.8
75°	467.0	506.9	552.8	582.2	596.3	611.6	624.6	631.6	637.5	639.9
77.5°	451.7	495.2	517.5	544.6	554.0	561.1	577.5	589.3	597.5	598.7
80°	432.8	452.8	469.3	491.7	498.7	509.3	525.8	532.8	538.7	538.7
82.5°	396.4	410.5	428.1	451.7	464.6	475.2	488.1	492.8	496.4	497.5
85°	357.6	371.7	394.0	414.0	423.4	432.8	444.6	451.7	454.0	451.7
87.5°	322.3	342.3	363.4	378.7	382.3	387.0	396.4	402.3	404.6	407.0
90°	290.5	310.5	327.0	339.9	339.9	344.6	349.3	350.5	348.2	350.5
92.5°	262.3	275.2	284.6	290.5	290.5	294.1	299.9	302.3	301.1	302.3
95°	228.2	237.6	242.3	245.8	249.4	254.1	258.8	259.9	259.9	261.1
97.5°	197.6	204.7	209.4	212.9	214.1	217.6	217.6	218.8	218.8	220.0
100°	170.6	177.6	178.8	177.6	178.8	180.0	181.1	183.5	184.7	185.8
102.5°	144.7	150.6	152.9	154.1	155.3	157.6	160.0	161.1	163.5	163.5
105°	120.0	127.0	131.7	134.1	134.1	136.4	138.8	141.1	142.3	143.5
107.5°	102.3	109.4	115.3	117.6	120.0	121.1	123.5	125.9	127.0	128.2
110°	88.2	95.3	102.3	107.0	108.2	110.6	112.9	115.3	116.4	117.6
112.5°	78.8	84.7	90.6	95.3	97.6	100.0	102.3	104.7	107.0	107.0
115°	69.4	76.5	81.2	85.9	88.2	89.4	92.9	96.4	97.6	98.8
117.5°	62.3	68.2	72.9	77.6	80.0	82.3	84.7	87.0	89.4	89.4
120°	55.3	61.2	65.9	69.4	71.7	72.9	76.5	78.8	80.0	81.2
122.5°	48.2	54.1	57.6	62.3	63.5	65.9	69.4	71.7	72.9	74.1
125°	42.3	47.0	51.8	56.5	57.6	60.0	64.7	67.0	69.4	70.6
127.5°	37.6	42.3	48.2	52.9	55.3	58.8	63.5	67.0	69.4	70.6
130°	34.1	41.2	47.0	52.9	56.5	58.8	64.7	69.4	71.7	71.7
132.5°	34.1	41.2	48.2	54.1	57.6	60.0	65.9	70.6	72.9	74.1
135°	32.9	38.8	45.9	51.8	55.3	57.6	62.3	65.9	68.2	68.2
137.5°	29.4	34.1	38.8	43.5	47.0	49.4	52.9	55.3	57.6	57.6
140°	23.5	27.1	30.6	34.1	36.5	38.8	42.3	43.5	45.9	45.9
142.5°	17.6	20.0	23.5	25.9	27.1	29.4	31.8	34.1	35.3	35.3
145°	12.9	15.3	16.5	18.8	20.0	21.2	23.5	24.7	25.9	25.9
147.5°	9.4	10.6	11.8	14.1	14.1	15.3	17.6	18.8	18.8	18.8
150°	7.1	8.2	9.4	9.4	10.6	10.6	12.9	14.1	14.1	14.1
152.5°	5.9	5.9	7.1	7.1	8.2	8.2	9.4	10.6	10.6	10.6
155°	4.7	4.7	4.7	4.7	5.9	5.9	7.1	7.1	8.2	8.2
157.5°	3.5	3.5	3.5	3.5	3.5	3.5	4.7	4.7	5.9	5.9
160°	3.5	3.5	2.4	2.4	2.4	2.4	3.5	3.5	3.5	3.5
162.5°	3.5	2.4	2.4	2.4	1.2	2.4	2.4	2.4	2.4	2.4
165°	2.4	2.4	2.4	1.2	1.2	1.2	1.2	1.2	1.2	2.4
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: P236298

CATALOG NUMBER: 4SWLED-72HL-LC-UNV-L835-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)