

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: P236300

Luminaire Tested: **4SWLED-72HL-LC-UNV-L850-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236300
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-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

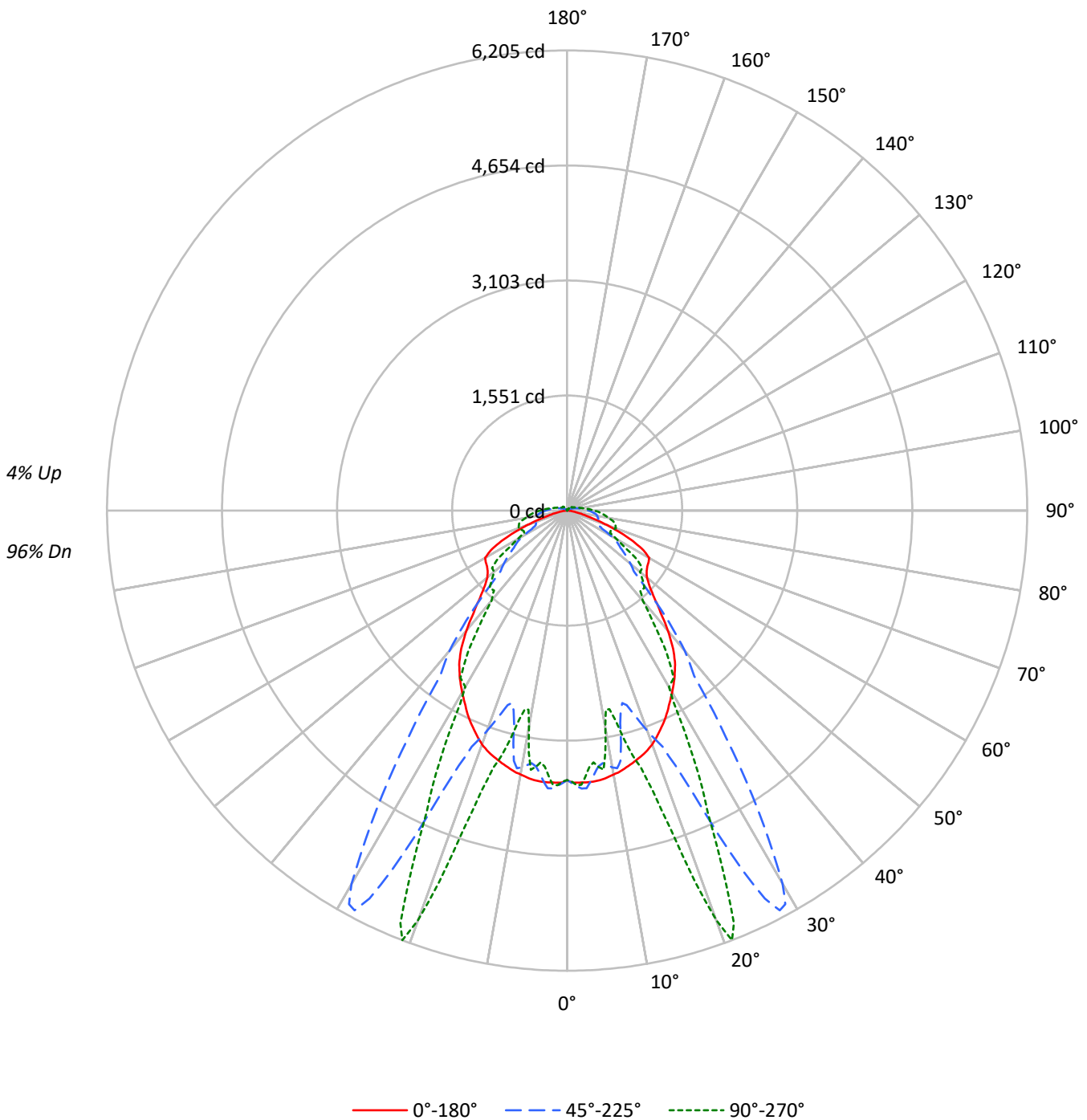
Lumens per Lamp: N/A
Luminaire Lumens: 9910.0 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.15 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')
CIE Type: Direct

Input Watts (W): 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: P236300

CATALOG NUMBER: 4SWLED-72HL-LC-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P236300

CATALOG NUMBER: 4SWLED-72HL-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°	26092	26092	26092
5°	26364	25709	24138
10°	26164	24334	20178
15°	25791	19150	23014
20°	25287	21773	39309
25°	24245	33402	30037
30°	22994	41042	18573
35°	21680	27041	16068
40°	19176	18441	11206
45°	16234	12167	10792
50°	15013	9175	9793
55°	15661	7691	9247
60°	17231	6527	6597
65°	15430	4841	5994
70°	10914	5090	7079
75°	6277	5676	7573
80°	3962	6279	7267
85°	2144	6714	7146



TEST NUMBER: P236300

CATALOG NUMBER: 4SWLED-72HL-LC-UNV-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.3	3.4
10°-20°	957.4	9.7
20°-30°	1886.3	19.0
30°-40°	1946.3	19.6
40°-50°	1635.5	16.5
50°-60°	1206.3	12.2
60°-70°	684.0	6.9
70°-80°	491.0	5.0
80°-90°	332.9	3.4
90°-100°	198.9	2.0
100°-110°	103.9	1.0
110°-120°	58.1	0.6
120°-130°	34.1	0.3
130°-140°	23.6	0.2
140°-150°	8.6	0.1
150°-160°	2.4	0.0
160°-170°	0.6	0.0
170°-180°	0.0	0.0
0°-30°	3184.0	32.1
0°-40°	5130.3	51.8
0°-60°	7972.1	80.4
0°-90°	9479.9	95.7
90°-120°	360.9	3.6
90°-150°	427.1	4.3
90°-180°	430.0	4.3
0°-180°	9910.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3636	3636	3636	3636	3636	
5°	3672	3726	3663	3491	3465	349
15°	3506	3354	2785	3136	3421	988
25°	3114	2779	4810	5401	4482	1429
35°	2538	3126	3737	2533	2334	1569
45°	1658	4175	1560	1408	1477	1306
55°	1317	2342	879	1109	1150	1190
65°	980	940	469	575	647	949
75°	257	379	434	624	670	307
85°	37	159	362	443	473	47
90°	2	116	288	356	367	3
95°	1	92	225	261	273	1
105°	1	48	118	140	150	1
115°	2	22	65	92	103	2
125°	2	10	38	60	74	2
135°	2	5	28	58	71	2
145°	2	2	11	21	27	2
155°	4	4	5	6	9	2
165°	4	4	4	1	2	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P236300

CATALOG NUMBER: 4SWLED-72HL-LC-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3636.0	3636.0	3636.0	3636.0	3636.0	3636.0	3636.0	3636.0	3636.0	3636.0	3636.0
1°	3666.7	3664.3	3649.5	3642.1	3640.9	3638.4	3639.7	3642.1	3648.3	3648.3	3676.6
2°	3670.4	3669.2	3659.3	3654.4	3654.4	3654.4	3656.9	3664.3	3669.2	3670.4	3713.5
3°	3671.7	3672.9	3666.7	3663.0	3671.7	3671.7	3675.3	3685.2	3702.4	3708.6	3752.9
4°	3674.1	3679.0	3675.3	3674.1	3691.3	3703.7	3711.0	3724.6	3735.7	3736.9	3754.1
5°	3671.7	3677.8	3677.8	3692.6	3716.0	3725.8	3732.0	3740.6	3723.3	3676.6	3663.0
6°	3669.2	3679.0	3685.2	3712.3	3733.2	3741.8	3743.0	3704.9	3659.3	3605.2	3560.9
7°	3663.0	3672.9	3692.6	3728.3	3741.8	3740.6	3719.7	3640.9	3560.9	3491.9	3472.3
8°	3648.3	3663.0	3702.4	3732.0	3722.1	3684.0	3644.6	3558.4	3483.3	3434.1	3437.8
9°	3631.0	3647.0	3702.4	3723.3	3675.3	3621.2	3572.0	3464.9	3416.9	3409.5	3475.9
10°	3613.8	3639.7	3703.7	3704.9	3600.3	3544.9	3477.2	3404.6	3403.3	3443.9	3516.6
11°	3599.0	3629.8	3696.3	3668.0	3536.3	3474.7	3405.8	3384.9	3432.9	3478.4	3540.0
12°	3578.1	3620.0	3680.3	3618.7	3453.8	3394.7	3359.0	3398.4	3456.3	3498.1	3451.3
13°	3553.5	3600.3	3649.5	3544.9	3386.1	3345.5	3359.0	3424.3	3461.2	3436.6	3228.5
14°	3527.6	3588.0	3612.6	3479.6	3324.6	3334.4	3377.5	3429.2	3435.3	3222.4	2961.4
15°	3505.5	3572.0	3573.2	3407.0	3303.6	3354.1	3387.3	3411.9	3314.7	3015.6	2785.4
16°	3479.6	3554.7	3530.1	3355.3	3323.3	3370.1	3388.6	3367.6	3085.8	2794.1	2699.3
17°	3453.8	3530.1	3475.9	3309.8	3346.7	3372.6	3371.3	3239.6	2915.9	2695.6	2741.1
18°	3424.3	3499.3	3426.7	3277.8	3356.6	3357.8	3329.5	3089.5	2746.0	2675.9	2869.1
19°	3391.0	3463.6	3373.8	3258.1	3344.2	3317.2	3243.3	2922.1	2680.8	2751.0	3014.4
20°	3355.3	3423.0	3325.8	3260.5	3313.5	3253.2	3141.2	2791.6	2677.1	2871.6	3163.3
21°	3311.0	3375.0	3280.2	3272.9	3256.9	3151.0	3010.7	2715.3	2736.2	2983.6	3298.7
22°	3263.0	3324.6	3244.5	3272.9	3170.7	3052.5	2893.7	2684.5	2837.1	3100.5	3432.9
23°	3211.3	3277.8	3211.3	3256.9	3064.8	2943.0	2799.0	2711.6	2909.8	3215.0	3734.4
24°	3164.5	3224.9	3189.2	3218.7	2970.1	2850.7	2739.9	2770.7	2977.4	3344.2	4155.4
25°	3114.1	3174.4	3169.5	3157.2	2883.9	2779.3	2727.6	2818.7	3067.3	3660.6	4810.2
26°	3058.7	3120.2	3151.0	3067.3	2818.7	2742.4	2744.8	2854.4	3187.9	4058.1	5399.8
27°	2999.6	3069.8	3115.3	2968.8	2773.1	2738.7	2780.5	2880.2	3467.3	4681.0	5870.0
28°	2940.5	3011.9	3064.8	2870.4	2746.0	2763.3	2795.3	2935.6	3824.3	5216.4	6105.1
29°	2883.9	2957.8	3008.2	2794.1	2742.4	2794.1	2792.8	3099.3	4379.4	5678.0	6068.1
30°	2833.4	2903.6	2943.0	2743.6	2762.0	2797.7	2791.6	3370.1	4853.3	5914.3	5813.3
32.5°	2690.7	2746.0	2747.3	2698.0	2794.1	2787.9	3008.2	4454.5	5646.0	5680.4	4794.2
35°	2538.0	2555.3	2579.9	2730.0	2815.0	3126.4	3861.2	5161.0	5596.7	4722.8	3736.9
37.5°	2348.5	2346.0	2512.2	2753.4	3232.2	3952.3	4539.4	5273.0	4793.0	3656.9	2813.7
40°	2109.7	2136.8	2499.9	2845.7	3908.0	4306.8	4599.7	4941.9	3716.0	2818.7	2465.4
42.5°	1866.0	1989.1	2499.9	3223.6	4039.7	4260.0	4557.9	4127.1	2943.0	2403.9	2016.1
45°	1658.0	1911.5	2518.3	3536.3	3910.4	4175.1	4221.8	3295.0	2439.6	1861.1	1559.5
47.5°	1504.1	1838.9	2678.3	3414.4	3775.0	3839.0	3663.0	2749.7	1820.4	1367.5	1222.2
50°	1403.2	1752.7	2747.3	3174.4	3494.4	3414.4	3154.7	2028.5	1256.7	1106.5	1116.4
52.5°	1350.3	1734.3	2559.0	2950.4	3139.9	2967.6	2487.6	1372.4	1013.0	990.8	997.0
55°	1317.0	1678.9	2283.2	2643.9	2695.6	2342.3	1836.4	1032.7	866.5	854.2	878.8
57.5°	1301.0	1521.3	2011.2	2241.4	2117.1	1803.2	1394.6	787.7	705.3	729.9	803.8
60°	1276.4	1356.4	1614.9	1762.6	1686.3	1427.8	1057.3	626.5	613.0	658.5	691.7
62.5°	1160.7	1164.4	1129.9	1392.1	1379.8	1158.2	835.8	536.7	513.3	526.8	534.2
65°	979.8	903.5	781.6	1144.7	1138.5	940.4	665.9	425.9	414.8	445.6	469.0



TEST NUMBER: P236300

CATALOG NUMBER: 4SWLED-72HL-LC-UNV-L850-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
67.5°	777.9	651.1	585.9	915.8	904.7	744.7	533.0	366.8	387.7	419.7	454.2
70°	572.3	478.8	461.6	721.3	712.7	597.0	446.8	339.7	374.2	407.4	443.1
72.5°	390.2	354.5	363.1	544.0	557.6	477.6	379.1	322.5	353.3	391.4	445.6
75°	257.2	259.7	279.4	400.0	427.1	379.1	320.0	300.3	333.6	379.1	434.5
77.5°	176.0	184.6	208.0	286.8	318.8	295.4	272.0	276.9	312.6	365.6	423.4
80°	115.7	124.3	148.9	203.1	236.3	235.1	233.9	257.2	297.9	354.5	411.1
82.5°	70.2	78.8	102.2	144.0	178.5	189.6	204.3	238.8	288.0	350.8	396.3
85°	36.9	45.5	67.7	103.4	139.1	158.8	179.7	224.0	283.1	337.3	361.9
87.5°	14.8	23.4	44.3	75.1	113.2	135.4	160.0	212.9	274.5	310.2	323.7
90°	2.5	11.1	28.3	56.6	93.5	115.7	142.8	204.3	254.8	270.8	288.0
92.5°	1.2	6.2	19.7	43.1	78.8	102.2	130.5	189.6	222.8	238.8	254.8
95°	1.2	3.7	14.8	34.5	67.7	92.3	119.4	166.2	190.8	206.8	225.2
97.5°	1.2	3.7	11.1	28.3	61.5	83.7	107.1	140.3	161.2	179.7	195.7
100°	1.2	2.5	9.8	24.6	54.2	71.4	88.6	114.5	132.9	152.6	167.4
102.5°	1.2	2.5	8.6	22.2	46.8	60.3	72.6	92.3	112.0	128.0	142.8
105°	1.2	2.5	7.4	19.7	38.2	48.0	57.9	76.3	93.5	108.3	118.2
107.5°	1.2	2.5	6.2	16.0	30.8	39.4	48.0	64.0	78.8	89.9	99.7
110°	1.2	1.2	4.9	13.5	25.8	33.2	39.4	52.9	65.2	76.3	84.9
112.5°	2.5	2.5	4.9	11.1	20.9	27.1	33.2	44.3	55.4	65.2	73.9
115°	2.5	2.5	3.7	8.6	17.2	22.2	27.1	36.9	46.8	56.6	65.2
117.5°	2.5	2.5	3.7	7.4	13.5	18.5	22.2	30.8	39.4	49.2	57.9
120°	2.5	2.5	2.5	6.2	12.3	14.8	18.5	25.8	34.5	43.1	50.5
122.5°	2.5	2.5	2.5	4.9	9.8	12.3	14.8	22.2	29.5	36.9	44.3
125°	2.5	2.5	2.5	3.7	7.4	9.8	12.3	18.5	24.6	32.0	38.2
127.5°	2.5	2.5	2.5	3.7	6.2	8.6	9.8	14.8	20.9	25.8	33.2
130°	2.5	2.5	2.5	2.5	4.9	6.2	8.6	12.3	17.2	23.4	29.5
132.5°	2.5	2.5	2.5	2.5	4.9	6.2	7.4	11.1	17.2	22.2	28.3
135°	2.5	2.5	2.5	2.5	3.7	4.9	7.4	11.1	16.0	22.2	28.3
137.5°	2.5	2.5	2.5	2.5	3.7	4.9	6.2	9.8	14.8	20.9	25.8
140°	2.5	2.5	2.5	2.5	2.5	3.7	4.9	8.6	12.3	16.0	20.9
142.5°	2.5	2.5	2.5	2.5	2.5	2.5	3.7	6.2	8.6	12.3	16.0
145°	2.5	2.5	2.5	2.5	2.5	2.5	3.7	4.9	6.2	8.6	11.1
147.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.7	4.9	6.2	8.6
150°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.7	3.7	4.9	6.2
152.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	4.9	4.9
155°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	4.9
157.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
160°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
162.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
165°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
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: P236300

CATALOG NUMBER: 4SWLED-72HL-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



TEST NUMBER: P236300

CATALOG NUMBER: 4SWLED-72HL-LC-UNV-L850-CD1-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	3636.0	3636.0	3636.0	3636.0	3636.0	3636.0	3636.0	3636.0	3636.0	3636.0
1°	3686.4	3681.5	3677.8	3672.9	3668.0	3666.7	3664.3	3663.0	3653.2	3654.4
2°	3722.1	3725.8	3723.3	3718.4	3722.1	3717.2	3714.7	3709.8	3706.1	3707.3
3°	3765.2	3764.0	3752.9	3739.4	3730.7	3730.7	3712.3	3704.9	3682.7	3702.4
4°	3727.0	3701.2	3659.3	3639.7	3621.2	3618.7	3596.6	3575.6	3564.6	3584.3
5°	3623.6	3585.5	3532.6	3511.6	3490.7	3493.2	3474.7	3461.2	3452.6	3464.9
6°	3520.3	3485.8	3448.9	3426.7	3418.1	3411.9	3409.5	3413.2	3415.6	3414.4
7°	3447.6	3440.3	3436.6	3446.4	3455.0	3455.0	3469.8	3482.1	3485.8	3483.3
8°	3461.2	3485.8	3501.8	3507.9	3509.2	3511.6	3535.0	3535.0	3527.6	3530.1
9°	3516.6	3533.8	3551.0	3528.9	3485.8	3477.2	3395.9	3347.9	3280.2	3299.9
10°	3559.6	3527.6	3394.7	3285.2	3211.3	3186.7	3063.6	3009.5	2939.3	2959.0
11°	3485.8	3313.5	3112.8	2976.2	2906.1	2865.4	2785.4	2752.2	2738.7	2735.0
12°	3211.3	3010.7	2831.0	2752.2	2720.2	2707.9	2699.3	2709.1	2731.3	2737.4
13°	2961.4	2795.3	2712.8	2719.0	2735.0	2754.7	2823.6	2864.2	2903.6	2904.8
14°	2759.6	2709.1	2775.6	2859.3	2907.3	2938.1	3034.1	3100.5	3173.2	3186.7
15°	2706.7	2790.4	2947.9	3075.9	3136.2	3201.5	3328.2	3382.4	3423.0	3420.6
16°	2797.7	2941.8	3160.8	3311.0	3372.6	3415.6	3496.9	3546.1	3594.1	3601.5
17°	2950.4	3170.7	3372.6	3488.3	3532.6	3581.8	3732.0	3835.4	3922.7	3951.1
18°	3110.4	3341.8	3501.8	3688.9	3805.8	3901.8	4111.1	4301.9	4485.3	4519.7
19°	3288.9	3490.7	3757.8	4079.1	4223.1	4438.5	4811.4	5044.1	5229.9	5290.2
20°	3405.8	3724.6	4139.4	4743.7	4946.8	5185.6	5542.6	5719.8	5847.8	5876.1
21°	3611.3	4134.5	4847.1	5444.1	5649.6	5782.6	6018.9	6130.9	6162.9	6204.8
22°	3952.3	4784.3	5516.7	5951.2	6089.1	6165.4	6191.2	6107.5	6032.4	6002.9
23°	4577.6	5424.4	5959.8	6201.1	6187.5	6094.0	5883.5	5685.3	5556.1	5501.9
24°	5257.0	5916.7	6181.4	5977.1	5860.1	5660.7	5392.4	5193.0	5055.1	4988.7
25°	5737.0	6160.5	5936.4	5549.9	5401.0	5194.2	4869.3	4678.5	4543.1	4481.6
26°	6096.4	6042.3	5522.9	5079.8	4905.0	4705.6	4420.0	4312.9	4213.2	4154.1
27°	6129.7	5690.3	5083.4	4594.8	4438.5	4296.9	4082.8	3928.9	3824.3	3768.9
28°	5862.6	5279.2	4615.7	4224.3	4097.5	3925.2	3682.7	3531.3	3457.5	3373.8
29°	5521.6	4807.7	4226.8	3819.4	3681.5	3507.9	3266.7	3067.3	3019.3	2967.6
30°	5063.8	4378.2	3840.3	3386.1	3254.4	3067.3	2882.7	2817.4	2785.4	2744.8
32.5°	3986.8	3298.7	2850.7	2678.3	2639.0	2621.7	2689.4	2700.5	2698.0	2675.9
35°	2983.6	2608.2	2592.2	2566.3	2533.1	2501.1	2438.3	2402.6	2371.9	2333.7
37.5°	2547.9	2443.3	2296.8	2170.0	2113.4	2070.3	2005.1	1969.4	1939.8	1917.7
40°	2232.8	2017.4	1870.9	1782.3	1751.5	1701.0	1660.4	1638.3	1616.1	1586.6
42.5°	1802.0	1610.0	1494.3	1431.5	1413.0	1393.3	1409.3	1435.2	1447.5	1461.0
45°	1387.2	1299.8	1326.9	1384.7	1408.1	1432.7	1468.4	1475.8	1478.3	1477.0
47.5°	1208.7	1271.5	1303.5	1321.9	1318.3	1328.1	1357.6	1377.3	1389.6	1378.6
50°	1148.4	1157.0	1201.3	1246.9	1254.2	1241.9	1248.1	1264.1	1281.3	1283.8
52.5°	1038.8	1075.8	1110.2	1141.0	1168.1	1195.2	1239.5	1261.6	1275.2	1275.2
55°	933.0	1000.7	1048.7	1091.8	1109.0	1116.4	1138.5	1147.2	1155.8	1149.6
57.5°	866.5	898.5	930.5	924.4	910.8	891.1	903.5	918.2	924.4	920.7
60°	700.4	701.6	705.3	715.1	731.1	745.9	760.7	764.4	770.5	769.3
62.5°	553.9	566.2	585.9	617.9	626.5	626.5	641.3	652.4	656.0	651.1
65°	497.3	521.9	556.3	574.8	574.8	578.5	605.6	637.6	649.9	647.4



TEST NUMBER: P236300

CATALOG NUMBER: 4SWLED-72HL-LC-UNV-L850-CD1-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
67.5°	486.2	529.3	546.5	572.3	592.0	611.7	638.8	657.3	668.4	672.0
70°	493.6	525.6	560.0	595.7	611.7	629.0	661.0	686.8	696.7	697.9
72.5°	492.3	534.2	568.7	611.7	630.2	646.2	669.6	679.4	683.1	683.1
75°	488.7	530.5	578.5	609.3	624.0	640.0	653.6	661.0	667.1	669.6
77.5°	472.6	518.2	541.6	569.9	579.7	587.1	604.4	616.7	625.3	626.5
80°	453.0	473.9	491.1	514.5	521.9	533.0	550.2	557.6	563.7	563.7
82.5°	414.8	429.6	448.0	472.6	486.2	497.3	510.8	515.7	519.4	520.7
85°	374.2	389.0	412.3	433.3	443.1	453.0	465.3	472.6	475.1	472.6
87.5°	337.3	358.2	380.3	396.3	400.0	405.0	414.8	421.0	423.4	425.9
90°	304.0	324.9	342.2	355.7	355.7	360.6	365.6	366.8	364.3	366.8
92.5°	274.5	288.0	297.9	304.0	304.0	307.7	313.9	316.3	315.1	316.3
95°	238.8	248.6	253.6	257.2	260.9	265.9	270.8	272.0	272.0	273.3
97.5°	206.8	214.2	219.1	222.8	224.0	227.7	227.7	228.9	228.9	230.2
100°	178.5	185.9	187.1	185.9	187.1	188.3	189.6	192.0	193.2	194.5
102.5°	151.4	157.5	160.0	161.2	162.5	164.9	167.4	168.6	171.1	171.1
105°	125.5	132.9	137.9	140.3	140.3	142.8	145.2	147.7	148.9	150.2
107.5°	107.1	114.5	120.6	123.1	125.5	126.8	129.2	131.7	132.9	134.2
110°	92.3	99.7	107.1	112.0	113.2	115.7	118.2	120.6	121.9	123.1
112.5°	82.5	88.6	94.8	99.7	102.2	104.6	107.1	109.5	112.0	112.0
115°	72.6	80.0	84.9	89.9	92.3	93.5	97.2	100.9	102.2	103.4
117.5°	65.2	71.4	76.3	81.2	83.7	86.2	88.6	91.1	93.5	93.5
120°	57.9	64.0	68.9	72.6	75.1	76.3	80.0	82.5	83.7	84.9
122.5°	50.5	56.6	60.3	65.2	66.5	68.9	72.6	75.1	76.3	77.5
125°	44.3	49.2	54.2	59.1	60.3	62.8	67.7	70.2	72.6	73.9
127.5°	39.4	44.3	50.5	55.4	57.9	61.5	66.5	70.2	72.6	73.9
130°	35.7	43.1	49.2	55.4	59.1	61.5	67.7	72.6	75.1	75.1
132.5°	35.7	43.1	50.5	56.6	60.3	62.8	68.9	73.9	76.3	77.5
135°	34.5	40.6	48.0	54.2	57.9	60.3	65.2	68.9	71.4	71.4
137.5°	30.8	35.7	40.6	45.5	49.2	51.7	55.4	57.9	60.3	60.3
140°	24.6	28.3	32.0	35.7	38.2	40.6	44.3	45.5	48.0	48.0
142.5°	18.5	20.9	24.6	27.1	28.3	30.8	33.2	35.7	36.9	36.9
145°	13.5	16.0	17.2	19.7	20.9	22.2	24.6	25.8	27.1	27.1
147.5°	9.8	11.1	12.3	14.8	14.8	16.0	18.5	19.7	19.7	19.7
150°	7.4	8.6	9.8	9.8	11.1	11.1	13.5	14.8	14.8	14.8
152.5°	6.2	6.2	7.4	7.4	8.6	8.6	9.8	11.1	11.1	11.1
155°	4.9	4.9	4.9	4.9	6.2	6.2	7.4	7.4	8.6	8.6
157.5°	3.7	3.7	3.7	3.7	3.7	3.7	4.9	4.9	6.2	6.2
160°	3.7	3.7	2.5	2.5	2.5	2.5	3.7	3.7	3.7	3.7
162.5°	3.7	2.5	2.5	2.5	1.2	2.5	2.5	2.5	2.5	2.5
165°	2.5	2.5	2.5	1.2	1.2	1.2	1.2	1.2	1.2	2.5
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: P236300

CATALOG NUMBER: 4SWLED-72HL-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)