

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: P236299

Luminaire Tested: **4SWLED-72HL-LC-UNV-L840-CD1-U**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P236299  
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-L840-CD1-U  
Description: METALUX SWLED LINEAR LUMINAIRE  
4FT FIXTURE WITH 2 ROW LED, CLEAR LENS  
Light Source: (224) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

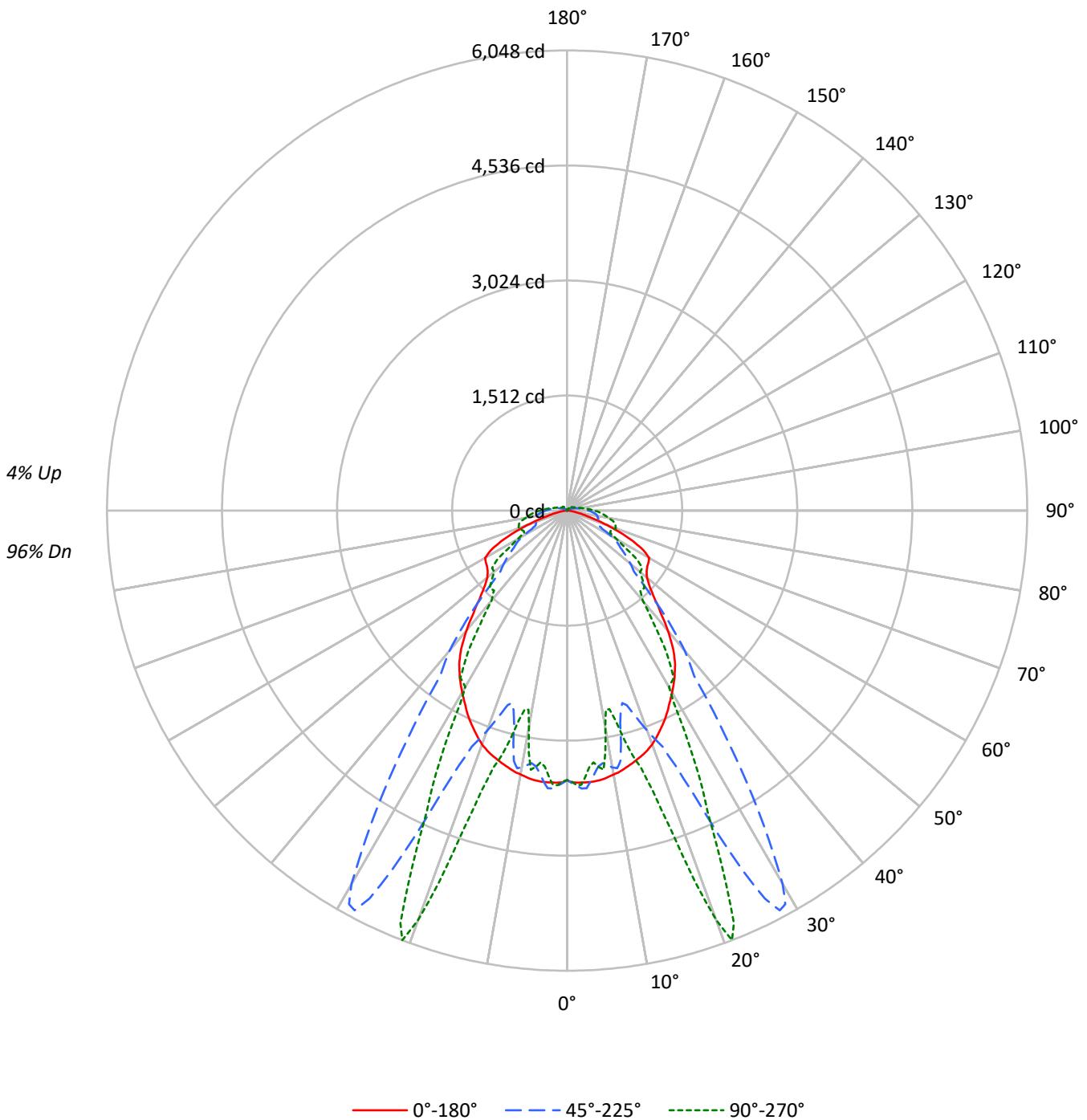
Lumens per Lamp: N/A  
Luminaire Lumens: 9659.1 lumens  
Efficiency: N/A  
Efficacy: 135.1 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.15 / 1.24  
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')  
CIE Type: Direct

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

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### 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°	25431	25431	25431
5°	25697	25059	23526
10°	25502	23717	19666
15°	25137	18665	22431
20°	24647	21222	38313
25°	23630	32556	29276
30°	22412	40003	18103
35°	21131	26356	15661
40°	18691	17974	10922
45°	15823	11859	10519
50°	14632	8942	9545
55°	15265	7497	9013
60°	16795	6362	6430
65°	15038	4718	5842
70°	10640	4962	6899
75°	6118	5532	7381
80°	3863	6120	7084
85°	2092	6544	6966



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	331.7	3.4
10°-20°	933.1	9.7
20°-30°	1838.5	19.0
30°-40°	1897.0	19.6
40°-50°	1594.1	16.5
50°-60°	1175.7	12.2
60°-70°	666.6	6.9
70°-80°	478.6	5.0
80°-90°	324.5	3.4
90°-100°	193.8	2.0
100°-110°	101.3	1.0
110°-120°	56.7	0.6
120°-130°	33.2	0.3
130°-140°	23.0	0.2
140°-150°	8.3	0.1
150°-160°	2.4	0.0
160°-170°	0.6	0.0
170°-180°	0.0	0.0
0°-30°	3103.3	32.1
0°-40°	5000.3	51.8
0°-60°	7770.2	80.4
0°-90°	9239.8	95.7
90°-120°	351.7	3.6
90°-150°	416.3	4.3
90°-180°	419.0	4.3
0°-180°	9659.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3544	3544	3544	3544	3544	
5°	3579	3631	3570	3402	3377	340
15°	3417	3269	2715	3057	3334	963
25°	3035	2709	4688	5264	4368	1393
35°	2474	3047	3642	2469	2275	1530
45°	1616	4069	1520	1372	1440	1273
55°	1284	2283	857	1081	1120	1159
65°	955	917	457	560	631	925
75°	251	370	424	608	653	299
85°	36	155	353	432	461	46
90°	2	113	281	347	358	3
95°	1	90	220	254	266	1
105°	1	47	115	137	146	1
115°	2	22	64	90	101	2
125°	2	10	37	59	72	2
135°	2	5	28	56	70	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: P236299

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3543.9	3543.9	3543.9	3543.9	3543.9	3543.9	3543.9	3543.9	3543.9	3543.9	3543.9
1°	3573.9	3571.5	3557.1	3549.9	3548.7	3546.3	3547.5	3549.9	3555.9	3555.9	3583.5
2°	3577.5	3576.3	3566.7	3561.9	3561.9	3561.9	3564.3	3571.5	3576.3	3577.5	3619.4
3°	3578.7	3579.9	3573.9	3570.3	3578.7	3578.7	3582.3	3591.9	3608.6	3614.6	3657.8
4°	3581.1	3585.9	3582.3	3581.1	3597.9	3609.8	3617.0	3630.2	3641.0	3642.2	3659.0
5°	3578.7	3584.7	3584.7	3599.1	3621.8	3631.4	3637.4	3645.8	3629.0	3583.5	3570.3
6°	3576.3	3585.9	3591.9	3618.2	3638.6	3647.0	3648.2	3611.0	3566.7	3513.9	3470.7
7°	3570.3	3579.9	3599.1	3633.8	3647.0	3645.8	3625.4	3548.7	3470.7	3403.5	3384.3
8°	3555.9	3570.3	3608.6	3637.4	3627.8	3590.7	3552.3	3468.3	3395.1	3347.1	3350.7
9°	3539.1	3554.7	3608.6	3629.0	3582.3	3529.5	3481.5	3377.1	3330.3	3323.1	3387.9
10°	3522.3	3547.5	3609.8	3611.0	3509.1	3455.1	3389.1	3318.3	3317.1	3356.7	3427.5
11°	3507.9	3537.9	3602.7	3575.1	3446.7	3386.7	3319.5	3299.1	3345.9	3390.3	3450.3
12°	3487.5	3528.3	3587.1	3527.1	3366.3	3308.7	3273.9	3312.3	3368.7	3409.5	3363.9
13°	3463.5	3509.1	3557.1	3455.1	3300.3	3260.7	3273.9	3337.5	3373.5	3349.5	3146.8
14°	3438.3	3497.1	3521.1	3391.5	3240.3	3249.9	3291.9	3342.3	3348.3	3140.8	2886.4
15°	3416.7	3481.5	3482.7	3320.7	3220.0	3269.1	3301.5	3325.5	3230.7	2939.2	2714.9
16°	3391.5	3464.7	3440.7	3270.3	3239.1	3284.7	3302.7	3282.3	3007.6	2723.3	2630.9
17°	3366.3	3440.7	3387.9	3226.0	3261.9	3287.1	3285.9	3157.6	2842.1	2627.3	2671.7
18°	3337.5	3410.7	3339.9	3194.8	3271.5	3272.7	3245.1	3011.2	2676.5	2608.1	2796.5
19°	3305.1	3375.9	3288.3	3175.6	3259.5	3233.1	3161.2	2848.0	2612.9	2681.3	2938.0
20°	3270.3	3336.3	3241.5	3178.0	3229.5	3170.8	3061.6	2720.9	2609.3	2798.9	3083.2
21°	3227.2	3289.5	3197.2	3190.0	3174.4	3071.2	2934.4	2646.5	2666.9	2908.0	3215.2
22°	3180.4	3240.3	3162.4	3190.0	3090.4	2975.2	2820.5	2616.5	2765.3	3022.0	3345.9
23°	3130.0	3194.8	3130.0	3174.4	2987.2	2868.4	2728.1	2642.9	2836.1	3133.6	3639.8
24°	3084.4	3143.2	3108.4	3137.2	2894.8	2778.5	2670.5	2700.5	2902.0	3259.5	4050.1
25°	3035.2	3094.0	3089.2	3077.2	2810.9	2708.9	2658.5	2747.3	2989.6	3567.9	4688.4
26°	2981.2	3041.2	3071.2	2989.6	2747.3	2672.9	2675.3	2782.1	3107.2	3955.4	5263.0
27°	2923.6	2992.0	3036.4	2893.6	2702.9	2669.3	2710.1	2807.3	3379.5	4562.4	5721.3
28°	2866.0	2935.6	2987.2	2797.7	2676.5	2693.3	2724.5	2861.2	3727.4	5084.3	5950.4
29°	2810.9	2882.8	2932.0	2723.3	2672.9	2723.3	2722.1	3020.8	4268.5	5534.1	5914.4
30°	2761.7	2830.1	2868.4	2674.1	2692.1	2726.9	2720.9	3284.7	4730.4	5764.5	5666.1
32.5°	2622.5	2676.5	2677.7	2629.7	2723.3	2717.3	2932.0	4341.7	5503.0	5536.5	4672.8
35°	2473.7	2490.5	2514.5	2660.9	2743.7	3047.2	3763.4	5030.3	5455.0	4603.2	3642.2
37.5°	2289.0	2286.6	2448.6	2683.7	3150.4	3852.2	4424.4	5139.4	4671.6	3564.3	2742.5
40°	2056.3	2082.7	2436.6	2773.7	3809.0	4197.7	4483.2	4816.7	3621.8	2747.3	2403.0
42.5°	1818.7	1938.7	2436.6	3142.0	3937.4	4152.1	4442.4	4022.5	2868.4	2343.0	1965.1
45°	1616.0	1863.1	2454.6	3446.7	3811.4	4069.3	4114.9	3211.6	2377.8	1813.9	1520.0
47.5°	1466.0	1792.3	2610.5	3327.9	3679.4	3741.8	3570.3	2680.1	1774.3	1332.8	1191.3
50°	1367.6	1708.4	2677.7	3094.0	3405.9	3327.9	3074.8	1977.1	1224.9	1078.5	1088.1
52.5°	1316.1	1690.4	2494.1	2875.6	3060.4	2892.4	2424.6	1337.6	987.3	965.7	971.7
55°	1283.7	1636.4	2225.4	2576.9	2627.3	2283.0	1789.9	1006.5	844.6	832.6	856.6
57.5°	1268.1	1482.8	1960.3	2184.6	2063.5	1757.5	1359.2	767.8	687.4	711.4	783.4
60°	1244.1	1322.1	1574.0	1717.9	1643.6	1391.6	1030.5	610.6	597.4	641.8	674.2
62.5°	1131.3	1134.9	1101.3	1356.8	1344.8	1128.9	814.6	523.1	500.3	513.5	520.7
65°	954.9	880.6	761.8	1115.7	1109.7	916.6	649.0	415.1	404.3	434.3	457.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
67.5°	758.2	634.6	571.0	892.6	881.8	725.8	519.5	357.5	377.9	409.1	442.7
70°	557.9	466.7	449.9	703.0	694.6	581.8	435.5	331.1	364.7	397.1	431.9
72.5°	380.3	345.5	353.9	530.3	543.5	465.5	369.5	314.3	344.3	381.5	434.3
75°	250.7	253.1	272.3	389.9	416.3	369.5	311.9	292.7	325.1	369.5	423.5
77.5°	171.6	180.0	202.7	279.5	310.7	287.9	265.1	269.9	304.7	356.3	412.7
80°	112.8	121.2	145.2	197.9	230.3	229.1	227.9	250.7	290.3	345.5	400.7
82.5°	68.4	76.8	99.6	140.4	174.0	184.8	199.1	232.7	280.7	341.9	386.3
85°	36.0	44.4	66.0	100.8	135.6	154.8	175.2	218.3	275.9	328.7	352.7
87.5°	14.4	22.8	43.2	73.2	110.4	132.0	156.0	207.5	267.5	302.3	315.5
90°	2.4	10.8	27.6	55.2	91.2	112.8	139.2	199.1	248.3	263.9	280.7
92.5°	1.2	6.0	19.2	42.0	76.8	99.6	127.2	184.8	217.1	232.7	248.3
95°	1.2	3.6	14.4	33.6	66.0	90.0	116.4	162.0	186.0	201.5	219.5
97.5°	1.2	3.6	10.8	27.6	60.0	81.6	104.4	136.8	157.2	175.2	190.7
100°	1.2	2.4	9.6	24.0	52.8	69.6	86.4	111.6	129.6	148.8	163.2
102.5°	1.2	2.4	8.4	21.6	45.6	58.8	70.8	90.0	109.2	124.8	139.2
105°	1.2	2.4	7.2	19.2	37.2	46.8	56.4	74.4	91.2	105.6	115.2
107.5°	1.2	2.4	6.0	15.6	30.0	38.4	46.8	62.4	76.8	87.6	97.2
110°	1.2	1.2	4.8	13.2	25.2	32.4	38.4	51.6	63.6	74.4	82.8
112.5°	2.4	2.4	4.8	10.8	20.4	26.4	32.4	43.2	54.0	63.6	72.0
115°	2.4	2.4	3.6	8.4	16.8	21.6	26.4	36.0	45.6	55.2	63.6
117.5°	2.4	2.4	3.6	7.2	13.2	18.0	21.6	30.0	38.4	48.0	56.4
120°	2.4	2.4	2.4	6.0	12.0	14.4	18.0	25.2	33.6	42.0	49.2
122.5°	2.4	2.4	2.4	4.8	9.6	12.0	14.4	21.6	28.8	36.0	43.2
125°	2.4	2.4	2.4	3.6	7.2	9.6	12.0	18.0	24.0	31.2	37.2
127.5°	2.4	2.4	2.4	3.6	6.0	8.4	9.6	14.4	20.4	25.2	32.4
130°	2.4	2.4	2.4	2.4	4.8	6.0	8.4	12.0	16.8	22.8	28.8
132.5°	2.4	2.4	2.4	2.4	4.8	6.0	7.2	10.8	16.8	21.6	27.6
135°	2.4	2.4	2.4	2.4	3.6	4.8	7.2	10.8	15.6	21.6	27.6
137.5°	2.4	2.4	2.4	2.4	3.6	4.8	6.0	9.6	14.4	20.4	25.2
140°	2.4	2.4	2.4	2.4	2.4	3.6	4.8	8.4	12.0	15.6	20.4
142.5°	2.4	2.4	2.4	2.4	2.4	2.4	3.6	6.0	8.4	12.0	15.6
145°	2.4	2.4	2.4	2.4	2.4	2.4	3.6	4.8	6.0	8.4	10.8
147.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.6	4.8	6.0	8.4
150°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.6	3.6	4.8	6.0
152.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.8	4.8
155°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.8
157.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
160°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
162.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
165°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
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: P236299

CATALOG NUMBER: 4SWLED-72HL-LC-UNV-L840-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: P236299

CATALOG NUMBER: 4SWLED-72HL-LC-UNV-L840-CD1-U

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	3543.9	3543.9	3543.9	3543.9	3543.9	3543.9	3543.9	3543.9	3543.9	3543.9
1°	3593.1	3588.3	3584.7	3579.9	3575.1	3573.9	3571.5	3570.3	3560.7	3561.9
2°	3627.8	3631.4	3629.0	3624.2	3627.8	3623.0	3620.6	3615.8	3612.2	3613.4
3°	3669.8	3668.6	3657.8	3644.6	3636.2	3636.2	3618.2	3611.0	3589.5	3608.6
4°	3632.6	3607.4	3566.7	3547.5	3529.5	3527.1	3505.5	3485.1	3474.3	3493.5
5°	3531.9	3494.7	3443.1	3422.7	3402.3	3404.7	3386.7	3373.5	3365.1	3377.1
6°	3431.1	3397.5	3361.5	3339.9	3331.5	3325.5	3323.1	3326.7	3329.1	3327.9
7°	3360.3	3353.1	3349.5	3359.1	3367.5	3367.5	3381.9	3393.9	3397.5	3395.1
8°	3373.5	3397.5	3413.1	3419.1	3420.3	3422.7	3445.5	3445.5	3438.3	3440.7
9°	3427.5	3444.3	3461.1	3439.5	3397.5	3389.1	3309.9	3263.1	3197.2	3216.4
10°	3469.5	3438.3	3308.7	3202.0	3130.0	3106.0	2986.0	2933.2	2864.8	2884.0
11°	3397.5	3229.5	3034.0	2900.8	2832.5	2792.9	2714.9	2682.5	2669.3	2665.7
12°	3130.0	2934.4	2759.3	2682.5	2651.3	2639.3	2630.9	2640.5	2662.1	2668.1
13°	2886.4	2724.5	2644.1	2650.1	2665.7	2684.9	2752.1	2791.7	2830.1	2831.3
14°	2689.7	2640.5	2705.3	2786.9	2833.7	2863.6	2957.2	3022.0	3092.8	3106.0
15°	2638.1	2719.7	2873.2	2998.0	3056.8	3120.4	3243.9	3296.7	3336.3	3333.9
16°	2726.9	2867.2	3080.8	3227.2	3287.1	3329.1	3408.3	3456.3	3503.1	3510.3
17°	2875.6	3090.4	3287.1	3399.9	3443.1	3491.1	3637.4	3738.2	3823.4	3851.0
18°	3031.6	3257.1	3413.1	3595.5	3709.4	3803.0	4006.9	4192.9	4371.6	4405.2
19°	3205.6	3402.3	3662.6	3975.8	4116.1	4326.1	4689.6	4916.3	5097.5	5156.2
20°	3319.5	3630.2	4034.5	4623.6	4821.5	5054.3	5402.2	5574.9	5699.7	5727.3
21°	3519.9	4029.7	4724.4	5306.2	5506.5	5636.1	5866.5	5975.6	6006.8	6047.6
22°	3852.2	4663.2	5377.0	5800.5	5934.8	6009.2	6034.4	5952.8	5879.7	5850.9
23°	4461.6	5287.0	5808.9	6044.0	6030.8	5939.6	5734.5	5541.3	5415.4	5362.6
24°	5123.9	5766.9	6024.8	5825.7	5711.7	5517.3	5255.8	5061.5	4927.1	4862.3
25°	5591.7	6004.4	5786.1	5409.4	5264.2	5062.7	4746.0	4560.0	4428.0	4368.0
26°	5942.0	5889.2	5383.0	4951.1	4780.7	4586.4	4308.1	4203.7	4106.5	4048.9
27°	5974.4	5546.1	4954.7	4478.4	4326.1	4188.1	3979.4	3829.4	3727.4	3673.4
28°	5714.1	5145.4	4498.8	4117.3	3993.7	3825.8	3589.5	3441.9	3369.9	3288.3
29°	5381.8	4686.0	4119.7	3722.6	3588.3	3419.1	3184.0	2989.6	2942.8	2892.4
30°	4935.5	4267.3	3743.0	3300.3	3172.0	2989.6	2809.7	2746.1	2714.9	2675.3
32.5°	3885.8	3215.2	2778.5	2610.5	2572.1	2555.3	2621.3	2632.1	2629.7	2608.1
35°	2908.0	2542.1	2526.5	2501.3	2468.9	2437.8	2376.6	2341.8	2311.8	2274.6
37.5°	2483.3	2381.4	2238.6	2115.0	2059.9	2017.9	1954.3	1919.5	1890.7	1869.1
40°	2176.2	1966.3	1823.5	1737.1	1707.2	1658.0	1618.4	1596.8	1575.2	1546.4
42.5°	1756.3	1569.2	1456.4	1395.2	1377.2	1358.0	1373.6	1398.8	1410.8	1424.0
45°	1352.0	1266.9	1293.3	1349.6	1372.4	1396.4	1431.2	1438.4	1440.8	1439.6
47.5°	1178.1	1239.3	1270.5	1288.5	1284.9	1294.5	1323.3	1342.4	1354.4	1343.6
50°	1119.3	1127.7	1170.9	1215.3	1222.5	1210.5	1216.5	1232.1	1248.9	1251.3
52.5°	1012.5	1048.5	1082.1	1112.1	1138.5	1164.9	1208.1	1229.7	1242.9	1242.9
55°	909.4	975.3	1022.1	1064.1	1080.9	1088.1	1109.7	1118.1	1126.5	1120.5
57.5°	844.6	875.8	907.0	901.0	887.8	868.6	880.6	895.0	901.0	897.4
60°	682.6	683.8	687.4	697.0	712.6	727.0	741.4	745.0	751.0	749.8
62.5°	539.9	551.9	571.0	602.2	610.6	610.6	625.0	635.8	639.4	634.6
65°	484.7	508.7	542.3	560.3	560.3	563.9	590.2	621.4	633.4	631.0



TEST NUMBER: P236299

CATALOG NUMBER: 4SWLED-72HL-LC-UNV-L840-CD1-U

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
67.5°	473.9	515.9	532.7	557.9	577.0	596.2	622.6	640.6	651.4	655.0
70°	481.1	512.3	545.9	580.6	596.2	613.0	644.2	669.4	679.0	680.2
72.5°	479.9	520.7	554.3	596.2	614.2	629.8	652.6	662.2	665.8	665.8
75°	476.3	517.1	563.9	593.8	608.2	623.8	637.0	644.2	650.2	652.6
77.5°	460.7	505.1	527.9	555.5	565.1	572.2	589.0	601.0	609.4	610.6
80°	441.5	461.9	478.7	501.5	508.7	519.5	536.3	543.5	549.5	549.5
82.5°	404.3	418.7	436.7	460.7	473.9	484.7	497.9	502.7	506.3	507.5
85°	364.7	379.1	401.9	422.3	431.9	441.5	453.5	460.7	463.1	460.7
87.5°	328.7	349.1	370.7	386.3	389.9	394.7	404.3	410.3	412.7	415.1
90°	296.3	316.7	333.5	346.7	346.7	351.5	356.3	357.5	355.1	357.5
92.5°	267.5	280.7	290.3	296.3	296.3	299.9	305.9	308.3	307.1	308.3
95°	232.7	242.3	247.1	250.7	254.3	259.1	263.9	265.1	265.1	266.3
97.5°	201.5	208.7	213.5	217.1	218.3	221.9	221.9	223.1	223.1	224.3
100°	174.0	181.2	182.4	181.2	182.4	183.6	184.8	187.2	188.4	189.6
102.5°	147.6	153.6	156.0	157.2	158.4	160.8	163.2	164.4	166.8	166.8
105°	122.4	129.6	134.4	136.8	136.8	139.2	141.6	144.0	145.2	146.4
107.5°	104.4	111.6	117.6	120.0	122.4	123.6	126.0	128.4	129.6	130.8
110°	90.0	97.2	104.4	109.2	110.4	112.8	115.2	117.6	118.8	120.0
112.5°	80.4	86.4	92.4	97.2	99.6	102.0	104.4	106.8	109.2	109.2
115°	70.8	78.0	82.8	87.6	90.0	91.2	94.8	98.4	99.6	100.8
117.5°	63.6	69.6	74.4	79.2	81.6	84.0	86.4	88.8	91.2	91.2
120°	56.4	62.4	67.2	70.8	73.2	74.4	78.0	80.4	81.6	82.8
122.5°	49.2	55.2	58.8	63.6	64.8	67.2	70.8	73.2	74.4	75.6
125°	43.2	48.0	52.8	57.6	58.8	61.2	66.0	68.4	70.8	72.0
127.5°	38.4	43.2	49.2	54.0	56.4	60.0	64.8	68.4	70.8	72.0
130°	34.8	42.0	48.0	54.0	57.6	60.0	66.0	70.8	73.2	73.2
132.5°	34.8	42.0	49.2	55.2	58.8	61.2	67.2	72.0	74.4	75.6
135°	33.6	39.6	46.8	52.8	56.4	58.8	63.6	67.2	69.6	69.6
137.5°	30.0	34.8	39.6	44.4	48.0	50.4	54.0	56.4	58.8	58.8
140°	24.0	27.6	31.2	34.8	37.2	39.6	43.2	44.4	46.8	46.8
142.5°	18.0	20.4	24.0	26.4	27.6	30.0	32.4	34.8	36.0	36.0
145°	13.2	15.6	16.8	19.2	20.4	21.6	24.0	25.2	26.4	26.4
147.5°	9.6	10.8	12.0	14.4	14.4	15.6	18.0	19.2	19.2	19.2
150°	7.2	8.4	9.6	9.6	10.8	10.8	13.2	14.4	14.4	14.4
152.5°	6.0	6.0	7.2	7.2	8.4	8.4	9.6	10.8	10.8	10.8
155°	4.8	4.8	4.8	4.8	6.0	6.0	7.2	7.2	8.4	8.4
157.5°	3.6	3.6	3.6	3.6	3.6	3.6	4.8	4.8	6.0	6.0
160°	3.6	3.6	2.4	2.4	2.4	2.4	3.6	3.6	3.6	3.6
162.5°	3.6	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: P236299

CATALOG NUMBER: 4SWLED-72HL-LC-UNV-L840-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)