

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: P236304

Luminaire Tested: **4SWLED-80HL-LC-UNV-L835-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236304
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-80HL-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

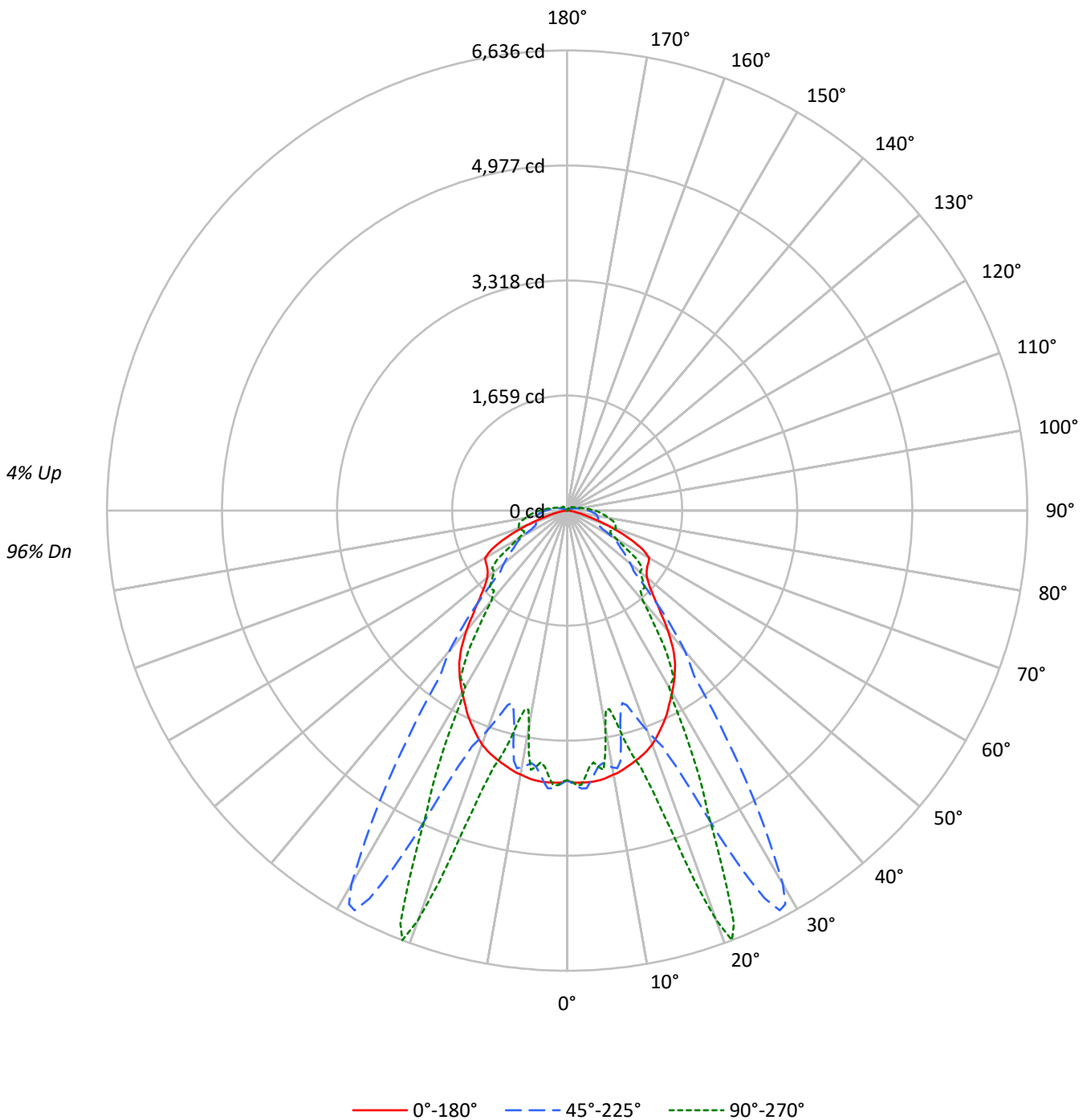
Lumens per Lamp: N/A
Luminaire Lumens: 10598.9 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.15 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')
CIE Type: Direct

Input Watts (W): 82.4
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	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°	27906	27906	27906
5°	28197	27497	25816
10°	27984	26026	21580
15°	27584	20481	24614
20°	27045	23287	42042
25°	25930	35724	32125
30°	24592	43896	19865
35°	23188	28921	17186
40°	20509	19723	11985
45°	17362	13013	11543
50°	16056	9812	10474
55°	16751	8226	9890
60°	18428	6981	7056
65°	16503	5178	6411
70°	11673	5444	7571
75°	6714	6070	8099
80°	4236	6716	7772
85°	2296	7180	7644



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.0	3.4
10°-20°	1023.9	9.7
20°-30°	2017.5	19.0
30°-40°	2081.6	19.6
40°-50°	1749.2	16.5
50°-60°	1290.1	12.2
60°-70°	731.5	6.9
70°-80°	525.1	5.0
80°-90°	356.0	3.4
90°-100°	212.7	2.0
100°-110°	111.1	1.0
110°-120°	62.2	0.6
120°-130°	36.4	0.3
130°-140°	25.2	0.2
140°-150°	9.1	0.1
150°-160°	2.6	0.0
160°-170°	0.6	0.0
170°-180°	0.0	0.0
0°-30°	3405.4	32.1
0°-40°	5487.0	51.8
0°-60°	8526.3	80.4
0°-90°	10139.0	95.7
90°-120°	385.9	3.6
90°-150°	456.7	4.3
90°-180°	460.0	4.3
0°-180°	10598.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3889	3889	3889	3889	3889	
5°	3927	3985	3918	3733	3706	373
15°	3749	3587	2979	3354	3658	1057
25°	3331	2972	5145	5776	4793	1529
35°	2714	3344	3997	2709	2496	1679
45°	1773	4465	1668	1506	1580	1397
55°	1409	2505	940	1186	1230	1272
65°	1048	1006	502	615	692	1015
75°	275	406	465	667	716	328
85°	40	170	387	474	506	50
90°	3	124	308	380	392	3
95°	1	99	241	279	292	1
105°	1	51	126	150	161	1
115°	3	24	70	99	111	2
125°	3	10	41	64	79	2
135°	3	5	30	62	76	2
145°	3	3	12	22	29	2
155°	4	4	5	7	9	2
165°	4	4	4	1	3	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P236304

CATALOG NUMBER: 4SWLED-80HL-LC-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3888.8	3888.8	3888.8	3888.8	3888.8	3888.8	3888.8	3888.8	3888.8	3888.8	3888.8
1°	3921.7	3919.0	3903.2	3895.3	3894.0	3891.4	3892.7	3895.3	3901.9	3901.9	3932.2
2°	3925.6	3924.3	3913.8	3908.5	3908.5	3908.5	3911.1	3919.0	3924.3	3925.6	3971.7
3°	3926.9	3928.2	3921.7	3917.7	3926.9	3926.9	3930.9	3941.4	3959.8	3966.4	4013.8
4°	3929.6	3934.8	3930.9	3929.6	3948.0	3961.2	3969.1	3983.5	3995.4	3996.7	4015.1
5°	3926.9	3933.5	3933.5	3949.3	3974.3	3984.9	3991.4	4000.6	3982.2	3932.2	3917.7
6°	3924.3	3934.8	3941.4	3970.4	3992.7	4002.0	4003.3	3962.5	3913.8	3855.8	3808.4
7°	3917.7	3928.2	3949.3	3987.5	4002.0	4000.6	3978.3	3894.0	3808.4	3734.7	3713.7
8°	3901.9	3917.7	3959.8	3991.4	3980.9	3940.1	3898.0	3805.8	3725.5	3672.9	3676.8
9°	3883.5	3900.6	3959.8	3982.2	3930.9	3873.0	3820.3	3705.8	3654.4	3646.5	3717.6
10°	3865.1	3892.7	3961.2	3962.5	3850.6	3791.3	3718.9	3641.3	3639.9	3683.4	3761.1
11°	3849.3	3882.2	3953.3	3923.0	3782.1	3716.3	3642.6	3620.2	3671.5	3720.2	3786.1
12°	3826.9	3871.6	3936.1	3870.3	3693.9	3630.7	3592.6	3634.7	3696.6	3741.3	3691.3
13°	3800.5	3850.6	3903.2	3791.3	3621.5	3578.1	3592.6	3662.3	3701.8	3675.5	3453.0
14°	3772.9	3837.4	3863.7	3721.6	3555.7	3566.2	3612.3	3667.6	3674.2	3446.4	3167.3
15°	3749.2	3820.3	3821.6	3643.9	3533.3	3587.3	3622.8	3649.2	3545.2	3225.3	2979.1
16°	3721.6	3801.9	3775.5	3588.6	3554.4	3604.4	3624.1	3601.8	3300.3	2988.3	2886.9
17°	3693.9	3775.5	3717.6	3539.9	3579.4	3607.0	3605.7	3464.9	3118.6	2883.0	2931.7
18°	3662.3	3742.6	3665.0	3505.7	3589.9	3591.2	3561.0	3304.3	2937.0	2861.9	3068.6
19°	3626.8	3704.4	3608.3	3484.6	3576.8	3547.8	3468.8	3125.2	2867.2	2942.2	3224.0
20°	3588.6	3661.0	3557.0	3487.2	3543.8	3479.3	3359.5	2985.7	2863.2	3071.2	3383.2
21°	3541.2	3609.7	3508.3	3500.4	3483.3	3370.1	3220.0	2904.1	2926.4	3191.0	3528.0
22°	3489.9	3555.7	3470.1	3500.4	3391.1	3264.8	3094.9	2871.1	3034.4	3316.1	3671.5
23°	3434.6	3505.7	3434.6	3483.3	3277.9	3147.6	2993.6	2900.1	3112.1	3438.5	3994.1
24°	3384.6	3449.1	3410.9	3442.5	3176.6	3048.9	2930.4	2963.3	3184.5	3576.8	4444.3
25°	3330.6	3395.1	3389.8	3376.7	3084.4	2972.5	2917.2	3014.6	3280.6	3915.1	5144.6
26°	3271.3	3337.2	3370.1	3280.6	3014.6	2933.0	2935.7	3052.8	3409.6	4340.3	5775.2
27°	3208.2	3283.2	3331.9	3175.2	2965.9	2929.1	2973.8	3080.5	3708.4	5006.4	6278.1
28°	3145.0	3221.3	3277.9	3069.9	2937.0	2955.4	2989.6	3139.7	4090.2	5579.1	6529.5
29°	3084.4	3163.4	3217.4	2988.3	2933.0	2988.3	2987.0	3314.8	4683.9	6072.7	6490.0
30°	3030.4	3105.5	3147.6	2934.3	2954.1	2992.3	2985.7	3604.4	5190.7	6325.5	6217.5
32.5°	2877.7	2937.0	2938.3	2885.6	2988.3	2981.7	3217.4	4764.2	6038.5	6075.4	5127.5
35°	2714.5	2732.9	2759.2	2919.9	3010.7	3343.7	4129.7	5519.8	5985.8	5051.2	3996.7
37.5°	2511.8	2509.1	2686.8	2944.9	3457.0	4227.1	4855.0	5639.6	5126.2	3911.1	3009.4
40°	2256.4	2285.3	2673.7	3043.6	4179.7	4606.2	4919.5	5285.5	3974.3	3014.6	2636.8
42.5°	1995.7	2127.4	2673.7	3447.7	4320.5	4556.2	4874.8	4414.0	3147.6	2571.0	2156.3
45°	1773.2	2044.4	2693.4	3782.1	4182.3	4465.3	4515.4	3524.1	2609.2	1990.5	1667.9
47.5°	1608.7	1966.8	2864.6	3651.8	4037.5	4106.0	3917.7	2940.9	1947.0	1462.6	1307.2
50°	1500.7	1874.6	2938.3	3395.1	3737.4	3651.8	3374.0	2169.5	1344.1	1183.5	1194.0
52.5°	1444.1	1854.9	2736.9	3155.5	3358.2	3173.9	2660.5	1467.8	1083.4	1059.7	1066.3
55°	1408.6	1795.6	2442.0	2827.7	2883.0	2505.2	1964.1	1104.5	926.8	913.6	939.9
57.5°	1391.5	1627.1	2151.1	2397.2	2264.3	1928.6	1491.5	842.5	754.3	780.6	859.6
60°	1365.1	1450.7	1727.2	1885.1	1803.5	1527.1	1130.8	670.1	655.6	704.3	739.8
62.5°	1241.4	1245.3	1208.5	1488.9	1475.7	1238.8	893.9	574.0	549.0	563.4	571.3
65°	1047.9	966.3	835.9	1224.3	1217.7	1005.8	712.2	455.5	443.6	476.5	501.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
67.5°	832.0	696.4	626.6	979.4	967.6	796.4	570.0	392.3	414.7	448.9	485.8
70°	612.1	512.1	493.7	771.4	762.2	638.5	477.9	363.3	400.2	435.7	473.9
72.5°	417.3	379.1	388.3	581.9	596.3	510.8	405.5	344.9	377.8	418.6	476.5
75°	275.1	277.8	298.8	427.8	456.8	405.5	342.3	321.2	356.8	405.5	464.7
77.5°	188.3	197.5	222.5	306.7	341.0	315.9	290.9	296.2	334.4	391.0	452.9
80°	123.7	133.0	159.3	217.2	252.8	251.4	250.1	275.1	318.6	379.1	439.7
82.5°	75.0	84.3	109.3	154.0	190.9	202.7	218.5	255.4	308.0	375.2	423.9
85°	39.5	48.7	72.4	110.6	148.8	169.8	192.2	239.6	302.8	360.7	387.0
87.5°	15.8	25.0	47.4	80.3	121.1	144.8	171.1	227.7	293.6	331.7	346.2
90°	2.6	11.8	30.3	60.6	100.0	123.7	152.7	218.5	272.5	289.6	308.0
92.5°	1.3	6.6	21.1	46.1	84.3	109.3	139.5	202.7	238.3	255.4	272.5
95°	1.3	3.9	15.8	36.9	72.4	98.7	127.7	177.7	204.0	221.2	240.9
97.5°	1.3	3.9	11.8	30.3	65.8	89.5	114.5	150.1	172.5	192.2	209.3
100°	1.3	2.6	10.5	26.3	57.9	76.4	94.8	122.4	142.2	163.2	179.0
102.5°	1.3	2.6	9.2	23.7	50.0	64.5	77.7	98.7	119.8	136.9	152.7
105°	1.3	2.6	7.9	21.1	40.8	51.3	61.9	81.6	100.0	115.8	126.4
107.5°	1.3	2.6	6.6	17.1	32.9	42.1	51.3	68.5	84.3	96.1	106.6
110°	1.3	1.3	5.3	14.5	27.6	35.5	42.1	56.6	69.8	81.6	90.8
112.5°	2.6	2.6	5.3	11.8	22.4	29.0	35.5	47.4	59.2	69.8	79.0
115°	2.6	2.6	3.9	9.2	18.4	23.7	29.0	39.5	50.0	60.6	69.8
117.5°	2.6	2.6	3.9	7.9	14.5	19.7	23.7	32.9	42.1	52.7	61.9
120°	2.6	2.6	2.6	6.6	13.2	15.8	19.7	27.6	36.9	46.1	54.0
122.5°	2.6	2.6	2.6	5.3	10.5	13.2	15.8	23.7	31.6	39.5	47.4
125°	2.6	2.6	2.6	3.9	7.9	10.5	13.2	19.7	26.3	34.2	40.8
127.5°	2.6	2.6	2.6	3.9	6.6	9.2	10.5	15.8	22.4	27.6	35.5
130°	2.6	2.6	2.6	2.6	5.3	6.6	9.2	13.2	18.4	25.0	31.6
132.5°	2.6	2.6	2.6	2.6	5.3	6.6	7.9	11.8	18.4	23.7	30.3
135°	2.6	2.6	2.6	2.6	3.9	5.3	7.9	11.8	17.1	23.7	30.3
137.5°	2.6	2.6	2.6	2.6	3.9	5.3	6.6	10.5	15.8	22.4	27.6
140°	2.6	2.6	2.6	2.6	2.6	3.9	5.3	9.2	13.2	17.1	22.4
142.5°	2.6	2.6	2.6	2.6	2.6	2.6	3.9	6.6	9.2	13.2	17.1
145°	2.6	2.6	2.6	2.6	2.6	2.6	3.9	5.3	6.6	9.2	11.8
147.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.9	5.3	6.6	9.2
150°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.9	3.9	5.3	6.6
152.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	5.3	5.3
155°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	5.3
157.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
160°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
162.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
165°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
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: P236304

CATALOG NUMBER: 4SWLED-80HL-LC-UNV-L835-CD1-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	3888.8	3888.8	3888.8	3888.8	3888.8	3888.8	3888.8	3888.8	3888.8	3888.8
1°	3942.7	3937.5	3933.5	3928.2	3923.0	3921.7	3919.0	3917.7	3907.2	3908.5
2°	3980.9	3984.9	3982.2	3977.0	3980.9	3975.6	3973.0	3967.7	3963.8	3965.1
3°	4027.0	4025.7	4013.8	3999.3	3990.1	3990.1	3970.4	3962.5	3938.8	3959.8
4°	3986.2	3958.5	3913.8	3892.7	3873.0	3870.3	3846.6	3824.2	3812.4	3833.5
5°	3875.6	3834.8	3778.2	3755.8	3733.4	3736.0	3716.3	3701.8	3692.6	3705.8
6°	3765.0	3728.1	3688.7	3665.0	3655.7	3649.2	3646.5	3650.5	3653.1	3651.8
7°	3687.3	3679.4	3675.5	3686.0	3695.2	3695.2	3711.0	3724.2	3728.1	3725.5
8°	3701.8	3728.1	3745.3	3751.8	3753.2	3755.8	3780.8	3780.8	3772.9	3775.5
9°	3761.1	3779.5	3797.9	3774.2	3728.1	3718.9	3632.0	3580.7	3508.3	3529.4
10°	3807.1	3772.9	3630.7	3513.6	3434.6	3408.3	3276.6	3218.7	3143.6	3164.7
11°	3728.1	3543.8	3329.3	3183.1	3108.1	3064.7	2979.1	2943.5	2929.1	2925.1
12°	3434.6	3220.0	3027.8	2943.5	2909.3	2896.2	2886.9	2897.5	2921.2	2927.8
13°	3167.3	2989.6	2901.4	2908.0	2925.1	2946.2	3019.9	3063.3	3105.5	3106.8
14°	2951.4	2897.5	2968.6	3058.1	3109.4	3142.3	3245.0	3316.1	3393.8	3408.3
15°	2894.8	2984.4	3152.9	3289.8	3354.3	3424.0	3559.6	3617.6	3661.0	3658.4
16°	2992.3	3146.3	3380.6	3541.2	3607.0	3653.1	3740.0	3792.7	3844.0	3851.9
17°	3155.5	3391.1	3607.0	3730.8	3778.2	3830.8	3991.4	4102.0	4195.5	4225.8
18°	3326.6	3574.1	3745.3	3945.4	4070.4	4173.1	4396.9	4600.9	4797.1	4834.0
19°	3517.5	3733.4	4019.1	4362.7	4516.7	4747.1	5145.9	5394.8	5593.5	5658.0
20°	3642.6	3983.5	4427.2	5073.5	5290.8	5546.1	5927.9	6117.5	6254.4	6284.7
21°	3862.4	4421.9	5184.1	5822.6	6042.4	6184.6	6437.4	6557.2	6591.4	6636.2
22°	4227.1	5117.0	5900.3	6365.0	6512.4	6594.0	6621.7	6532.2	6451.9	6420.3
23°	4895.8	5801.5	6374.2	6632.2	6617.7	6517.7	6292.6	6080.6	5942.4	5884.5
24°	5622.5	6328.1	6611.1	6392.6	6267.5	6054.3	5767.3	5554.0	5406.6	5335.5
25°	6135.9	6588.8	6349.2	5935.8	5776.5	5555.4	5207.8	5003.8	4859.0	4793.1
26°	6520.3	6462.4	5906.8	5432.9	5246.0	5032.7	4727.3	4612.8	4506.2	4443.0
27°	6555.8	6085.9	5436.9	4914.3	4747.1	4595.7	4366.6	4202.1	4090.2	4030.9
28°	6270.2	5646.2	4936.6	4518.0	4382.4	4198.1	3938.8	3776.9	3697.9	3608.3
29°	5905.5	5142.0	4520.6	4084.9	3937.5	3751.8	3493.8	3280.6	3229.2	3173.9
30°	5415.8	4682.6	4107.3	3621.5	3480.7	3280.6	3083.1	3013.3	2979.1	2935.7
32.5°	4263.9	3528.0	3048.9	2864.6	2822.4	2804.0	2876.4	2888.3	2885.6	2861.9
35°	3191.0	2789.5	2772.4	2744.8	2709.2	2675.0	2607.9	2569.7	2536.8	2496.0
37.5°	2725.0	2613.1	2456.5	2320.9	2260.3	2214.2	2144.5	2106.3	2074.7	2051.0
40°	2388.0	2157.6	2001.0	1906.2	1873.3	1819.3	1775.9	1752.2	1728.5	1696.9
42.5°	1927.3	1721.9	1598.2	1531.0	1511.3	1490.2	1507.3	1535.0	1548.1	1562.6
45°	1483.6	1390.2	1419.1	1481.0	1506.0	1532.3	1570.5	1578.4	1581.0	1579.7
47.5°	1292.7	1359.9	1394.1	1413.9	1409.9	1420.4	1452.0	1473.1	1486.3	1474.4
50°	1228.2	1237.4	1284.8	1333.5	1341.4	1328.3	1334.9	1352.0	1370.4	1373.0
52.5°	1111.1	1150.6	1187.4	1220.3	1249.3	1278.3	1325.7	1349.3	1363.8	1363.8
55°	997.9	1070.3	1121.6	1167.7	1186.1	1194.0	1217.7	1226.9	1236.1	1229.6
57.5°	926.8	961.0	995.2	988.6	974.2	953.1	966.3	982.1	988.6	984.7
60°	749.1	750.4	754.3	764.8	782.0	797.8	813.6	817.5	824.1	822.8
62.5°	592.4	605.6	626.6	660.9	670.1	670.1	685.9	697.7	701.7	696.4
65°	531.8	558.2	595.0	614.8	614.8	618.7	647.7	681.9	695.1	692.4



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CATALOG NUMBER: 4SWLED-80HL-LC-UNV-L835-CD1-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
67.5°	520.0	566.1	584.5	612.1	633.2	654.3	683.2	703.0	714.8	718.8
70°	527.9	562.1	599.0	637.2	654.3	672.7	706.9	734.6	745.1	746.4
72.5°	526.6	571.3	608.2	654.3	674.0	691.1	716.1	726.7	730.6	730.6
75°	522.6	567.4	618.7	651.6	667.4	684.5	699.0	706.9	713.5	716.1
77.5°	505.5	554.2	579.2	609.5	620.0	627.9	646.4	659.5	668.7	670.1
80°	484.4	506.8	525.3	550.3	558.2	570.0	588.4	596.3	602.9	602.9
82.5°	443.6	459.4	479.2	505.5	520.0	531.8	546.3	551.6	555.5	556.9
85°	400.2	416.0	441.0	463.4	473.9	484.4	497.6	505.5	508.1	505.5
87.5°	360.7	383.1	406.8	423.9	427.8	433.1	443.6	450.2	452.9	455.5
90°	325.2	347.5	366.0	380.4	380.4	385.7	391.0	392.3	389.7	392.3
92.5°	293.6	308.0	318.6	325.2	325.2	329.1	335.7	338.3	337.0	338.3
95°	255.4	265.9	271.2	275.1	279.1	284.4	289.6	290.9	290.9	292.2
97.5°	221.2	229.1	234.3	238.3	239.6	243.5	243.5	244.9	244.9	246.2
100°	190.9	198.8	200.1	198.8	200.1	201.4	202.7	205.4	206.7	208.0
102.5°	161.9	168.5	171.1	172.5	173.8	176.4	179.0	180.4	183.0	183.0
105°	134.3	142.2	147.4	150.1	150.1	152.7	155.3	158.0	159.3	160.6
107.5°	114.5	122.4	129.0	131.6	134.3	135.6	138.2	140.9	142.2	143.5
110°	98.7	106.6	114.5	119.8	121.1	123.7	126.4	129.0	130.3	131.6
112.5°	88.2	94.8	101.4	106.6	109.3	111.9	114.5	117.2	119.8	119.8
115°	77.7	85.6	90.8	96.1	98.7	100.0	104.0	107.9	109.3	110.6
117.5°	69.8	76.4	81.6	86.9	89.5	92.2	94.8	97.4	100.0	100.0
120°	61.9	68.5	73.7	77.7	80.3	81.6	85.6	88.2	89.5	90.8
122.5°	54.0	60.6	64.5	69.8	71.1	73.7	77.7	80.3	81.6	82.9
125°	47.4	52.7	57.9	63.2	64.5	67.1	72.4	75.0	77.7	79.0
127.5°	42.1	47.4	54.0	59.2	61.9	65.8	71.1	75.0	77.7	79.0
130°	38.2	46.1	52.7	59.2	63.2	65.8	72.4	77.7	80.3	80.3
132.5°	38.2	46.1	54.0	60.6	64.5	67.1	73.7	79.0	81.6	82.9
135°	36.9	43.4	51.3	57.9	61.9	64.5	69.8	73.7	76.4	76.4
137.5°	32.9	38.2	43.4	48.7	52.7	55.3	59.2	61.9	64.5	64.5
140°	26.3	30.3	34.2	38.2	40.8	43.4	47.4	48.7	51.3	51.3
142.5°	19.7	22.4	26.3	29.0	30.3	32.9	35.5	38.2	39.5	39.5
145°	14.5	17.1	18.4	21.1	22.4	23.7	26.3	27.6	29.0	29.0
147.5°	10.5	11.8	13.2	15.8	15.8	17.1	19.7	21.1	21.1	21.1
150°	7.9	9.2	10.5	10.5	11.8	11.8	14.5	15.8	15.8	15.8
152.5°	6.6	6.6	7.9	7.9	9.2	9.2	10.5	11.8	11.8	11.8
155°	5.3	5.3	5.3	5.3	6.6	6.6	7.9	7.9	9.2	9.2
157.5°	3.9	3.9	3.9	3.9	3.9	3.9	5.3	5.3	6.6	6.6
160°	3.9	3.9	2.6	2.6	2.6	2.6	3.9	3.9	3.9	3.9
162.5°	3.9	2.6	2.6	2.6	1.3	2.6	2.6	2.6	2.6	2.6
165°	2.6	2.6	2.6	1.3	1.3	1.3	1.3	1.3	1.3	2.6
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: P236304

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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)