

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: P236305

Luminaire Tested: **4SWLED-80HL-LC-UNV-L840-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236305
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-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

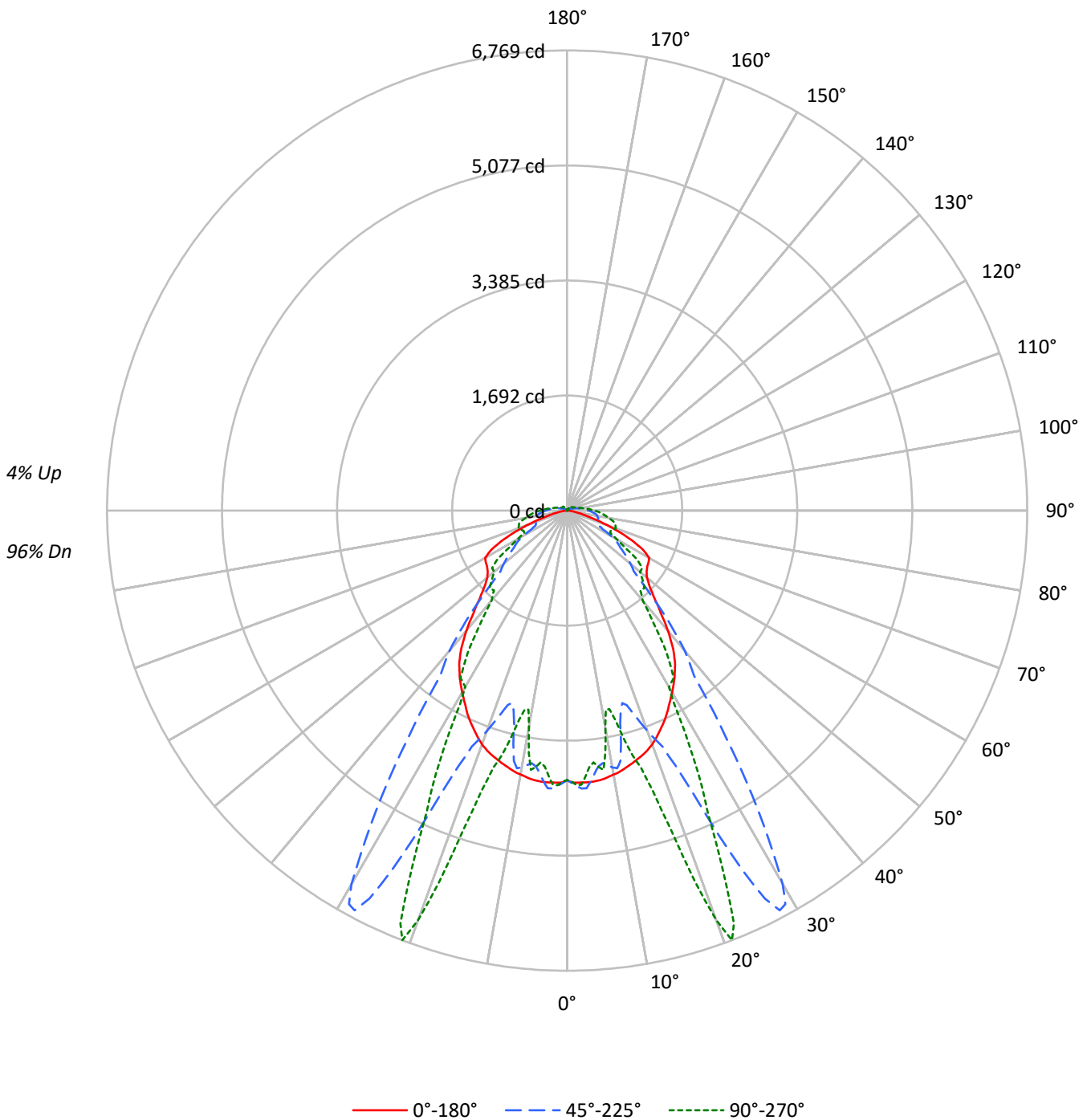
Lumens per Lamp: N/A
Luminaire Lumens: 10811.0 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.15 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P236305

CATALOG NUMBER: 4SWLED-80HL-LC-UNV-L840-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°	28463	28463	28463
5°	28761	28047	26332
10°	28543	26546	22012
15°	28135	20891	25106
20°	27587	23753	42883
25°	26449	36438	32768
30°	25084	44774	20262
35°	23651	29499	17529
40°	20919	20118	12224
45°	17710	13273	11773
50°	16378	10009	10684
55°	17086	8390	10087
60°	18797	7121	7197
65°	16832	5281	6539
70°	11908	5553	7722
75°	6848	6192	8262
80°	4322	6850	7928
85°	2342	7325	7796



TEST NUMBER: P236305

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.3	3.4
10°-20°	1044.4	9.7
20°-30°	2057.8	19.0
30°-40°	2123.2	19.6
40°-50°	1784.2	16.5
50°-60°	1316.0	12.2
60°-70°	746.1	6.9
70°-80°	535.7	5.0
80°-90°	363.1	3.4
90°-100°	216.9	2.0
100°-110°	113.3	1.0
110°-120°	63.4	0.6
120°-130°	37.1	0.3
130°-140°	25.7	0.2
140°-150°	9.3	0.1
150°-160°	2.6	0.0
160°-170°	0.7	0.0
170°-180°	0.0	0.0
0°-30°	3473.5	32.1
0°-40°	5596.7	51.8
0°-60°	8696.9	80.4
0°-90°	10341.8	95.7
90°-120°	393.7	3.6
90°-150°	465.9	4.3
90°-180°	469.0	4.3
0°-180°	10811.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3966	3966	3966	3966	3966	
5°	4006	4065	3996	3808	3780	380
15°	3824	3659	3039	3421	3732	1078
25°	3397	3032	5248	5892	4889	1559
35°	2769	3411	4077	2763	2546	1712
45°	1809	4555	1701	1536	1611	1425
55°	1437	2555	959	1210	1254	1298
65°	1069	1026	512	627	706	1035
75°	281	414	474	681	730	335
85°	40	173	395	483	516	51
90°	3	126	314	388	400	3
95°	1	101	246	285	298	1
105°	1	52	129	153	164	1
115°	3	24	71	101	113	3
125°	3	11	42	66	81	2
135°	3	5	31	63	78	2
145°	3	3	12	23	30	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: P236305

CATALOG NUMBER: 4SWLED-80HL-LC-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3966.5	3966.5	3966.5	3966.5	3966.5	3966.5	3966.5	3966.5	3966.5	3966.5	3966.5
1°	4000.1	3997.4	3981.3	3973.2	3971.9	3969.2	3970.6	3973.2	3980.0	3980.0	4010.8
2°	4004.1	4002.8	3992.0	3986.7	3986.7	3986.7	3989.4	3997.4	4002.8	4004.1	4051.1
3°	4005.5	4006.8	4000.1	3996.1	4005.5	4005.5	4009.5	4020.2	4039.0	4045.8	4094.1
4°	4008.2	4013.5	4009.5	4008.2	4027.0	4040.4	4048.4	4063.2	4075.3	4076.6	4095.4
5°	4005.5	4012.2	4012.2	4028.3	4053.8	4064.6	4071.3	4080.7	4061.9	4010.8	3996.1
6°	4002.8	4013.5	4020.2	4049.8	4072.6	4082.0	4083.4	4041.7	3992.0	3933.0	3884.6
7°	3996.1	4006.8	4028.3	4067.2	4082.0	4080.7	4057.8	3971.9	3884.6	3809.4	3787.9
8°	3980.0	3996.1	4039.0	4071.3	4060.5	4018.9	3975.9	3881.9	3800.0	3746.3	3750.3
9°	3961.2	3978.6	4039.0	4061.9	4009.5	3950.4	3896.7	3779.9	3727.5	3719.5	3792.0
10°	3942.4	3970.6	4040.4	4041.7	3927.6	3867.2	3793.3	3714.1	3712.8	3757.1	3836.3
11°	3926.2	3959.8	4032.3	4001.4	3857.8	3790.6	3715.4	3692.6	3745.0	3794.7	3861.8
12°	3903.4	3949.1	4014.9	3947.7	3767.8	3703.4	3664.4	3707.4	3770.5	3816.1	3765.1
13°	3876.6	3927.6	3981.3	3867.2	3694.0	3649.6	3664.4	3735.6	3775.9	3749.0	3522.1
14°	3848.4	3914.2	3941.0	3796.0	3626.8	3637.6	3684.6	3740.9	3747.7	3515.4	3230.7
15°	3824.2	3896.7	3898.1	3716.8	3604.0	3659.0	3695.3	3722.1	3616.1	3289.8	3038.7
16°	3796.0	3877.9	3851.1	3660.4	3625.5	3676.5	3696.6	3673.8	3366.3	3048.1	2944.7
17°	3767.8	3851.1	3792.0	3610.7	3651.0	3679.2	3677.8	3534.2	3181.0	2940.7	2990.3
18°	3735.6	3817.5	3738.3	3575.8	3661.7	3663.1	3632.2	3370.3	2995.7	2919.2	3130.0
19°	3699.3	3778.5	3680.5	3554.3	3648.3	3618.8	3538.2	3187.7	2924.5	3001.1	3288.4
20°	3660.4	3734.2	3628.2	3557.0	3614.7	3548.9	3426.7	3045.4	2920.5	3132.7	3450.9
21°	3612.0	3681.9	3578.5	3570.4	3553.0	3437.5	3284.4	2962.1	2985.0	3254.9	3598.6
22°	3559.7	3626.8	3539.5	3570.4	3459.0	3330.1	3156.8	2928.6	3095.1	3382.4	3745.0
23°	3503.3	3575.8	3503.3	3553.0	3343.5	3210.6	3053.5	2958.1	3174.3	3507.3	4074.0
24°	3452.3	3518.0	3479.1	3511.3	3240.1	3109.8	2989.0	3022.6	3248.2	3648.3	4533.2
25°	3397.2	3463.0	3457.6	3444.2	3146.1	3032.0	2975.6	3074.9	3346.2	3993.4	5247.5
26°	3336.8	3403.9	3437.5	3346.2	3074.9	2991.7	2994.4	3113.9	3477.8	4427.1	5890.7
27°	3272.3	3348.9	3398.5	3238.8	3025.3	2987.7	3033.3	3142.1	3782.6	5106.5	6403.7
28°	3207.9	3285.8	3343.5	3131.3	2995.7	3014.5	3049.4	3202.5	4172.0	5690.6	6660.1
29°	3146.1	3226.7	3281.7	3048.1	2991.7	3048.1	3046.7	3381.1	4777.6	6194.2	6619.8
30°	3091.0	3167.6	3210.6	2993.0	3013.2	3052.1	3045.4	3676.5	5294.5	6452.0	6341.9
32.5°	2935.3	2995.7	2997.1	2943.3	3048.1	3041.4	3281.7	4859.5	6159.3	6196.9	5230.1
35°	2768.8	2787.6	2814.4	2978.3	3070.9	3410.6	4212.3	5630.2	6105.6	5152.2	4076.6
37.5°	2562.0	2559.3	2740.6	3003.8	3526.1	4311.6	4952.1	5752.4	5228.7	3989.4	3069.6
40°	2301.5	2331.0	2727.2	3104.5	4263.3	4698.3	5017.9	5391.2	4053.8	3074.9	2689.6
42.5°	2035.6	2169.9	2727.2	3516.7	4407.0	4647.3	4972.3	4502.3	3210.6	2622.4	2199.5
45°	1808.7	2085.3	2747.3	3857.8	4266.0	4554.7	4605.7	3594.6	2661.4	2030.3	1701.3
47.5°	1640.9	2006.1	2921.9	3724.8	4118.3	4188.1	3996.1	2999.7	1986.0	1491.8	1333.4
50°	1530.8	1912.1	2997.1	3463.0	3812.1	3724.8	3441.5	2212.9	1371.0	1207.1	1217.9
52.5°	1473.0	1892.0	2791.6	3218.6	3425.4	3237.4	2713.7	1497.2	1105.1	1080.9	1087.6
55°	1436.8	1831.5	2490.8	2884.3	2940.7	2555.3	2003.4	1126.6	945.3	931.9	958.7
57.5°	1419.3	1659.7	2194.1	2445.2	2309.6	1967.2	1521.4	859.4	769.4	796.3	876.8
60°	1392.4	1479.7	1761.7	1922.8	1839.6	1557.6	1153.4	683.5	668.7	718.4	754.6
62.5°	1266.2	1270.3	1232.7	1518.7	1505.2	1263.5	911.7	585.4	559.9	574.7	582.8
65°	1068.8	985.6	852.7	1248.8	1242.1	1025.9	726.4	464.6	452.5	486.1	511.6



TEST NUMBER: P236305

CATALOG NUMBER: 4SWLED-80HL-LC-UNV-L840-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
67.5°	848.6	710.3	639.2	999.0	986.9	812.4	581.4	400.1	423.0	457.9	495.5
70°	624.4	522.3	503.5	786.9	777.5	651.2	487.4	370.6	408.2	444.5	483.4
72.5°	425.7	386.7	396.1	593.5	608.3	521.0	413.6	351.8	385.4	427.0	486.1
75°	280.6	283.3	304.8	436.4	465.9	413.6	349.1	327.6	363.9	413.6	474.0
77.5°	192.0	201.4	226.9	312.9	347.8	322.3	296.8	302.1	341.1	398.8	461.9
80°	126.2	135.6	162.5	221.6	257.8	256.5	255.1	280.6	324.9	386.7	448.5
82.5°	76.5	85.9	111.4	157.1	194.7	206.8	222.9	260.5	314.2	382.7	432.4
85°	40.3	49.7	73.9	112.8	151.7	173.2	196.0	244.4	308.8	367.9	394.8
87.5°	16.1	25.5	48.3	81.9	123.5	147.7	174.6	232.3	299.4	338.4	353.1
90°	2.7	12.1	30.9	61.8	102.1	126.2	155.8	222.9	278.0	295.4	314.2
92.5°	1.3	6.7	21.5	47.0	85.9	111.4	142.3	206.8	243.0	260.5	278.0
95°	1.3	4.0	16.1	37.6	73.9	100.7	130.2	181.3	208.1	225.6	245.7
97.5°	1.3	4.0	12.1	30.9	67.1	91.3	116.8	153.1	175.9	196.0	213.5
100°	1.3	2.7	10.7	26.9	59.1	77.9	96.7	124.9	145.0	166.5	182.6
102.5°	1.3	2.7	9.4	24.2	51.0	65.8	79.2	100.7	122.2	139.6	155.8
105°	1.3	2.7	8.1	21.5	41.6	52.4	63.1	83.3	102.1	118.2	128.9
107.5°	1.3	2.7	6.7	17.5	33.6	43.0	52.4	69.8	85.9	98.0	108.8
110°	1.3	1.3	5.4	14.8	28.2	36.3	43.0	57.7	71.2	83.3	92.7
112.5°	2.7	2.7	5.4	12.1	22.8	29.5	36.3	48.3	60.4	71.2	80.6
115°	2.7	2.7	4.0	9.4	18.8	24.2	29.5	40.3	51.0	61.8	71.2
117.5°	2.7	2.7	4.0	8.1	14.8	20.1	24.2	33.6	43.0	53.7	63.1
120°	2.7	2.7	2.7	6.7	13.4	16.1	20.1	28.2	37.6	47.0	55.1
122.5°	2.7	2.7	2.7	5.4	10.7	13.4	16.1	24.2	32.2	40.3	48.3
125°	2.7	2.7	2.7	4.0	8.1	10.7	13.4	20.1	26.9	34.9	41.6
127.5°	2.7	2.7	2.7	4.0	6.7	9.4	10.7	16.1	22.8	28.2	36.3
130°	2.7	2.7	2.7	2.7	5.4	6.7	9.4	13.4	18.8	25.5	32.2
132.5°	2.7	2.7	2.7	2.7	5.4	6.7	8.1	12.1	18.8	24.2	30.9
135°	2.7	2.7	2.7	2.7	4.0	5.4	8.1	12.1	17.5	24.2	30.9
137.5°	2.7	2.7	2.7	2.7	4.0	5.4	6.7	10.7	16.1	22.8	28.2
140°	2.7	2.7	2.7	2.7	2.7	4.0	5.4	9.4	13.4	17.5	22.8
142.5°	2.7	2.7	2.7	2.7	2.7	2.7	4.0	6.7	9.4	13.4	17.5
145°	2.7	2.7	2.7	2.7	2.7	2.7	4.0	5.4	6.7	9.4	12.1
147.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	4.0	5.4	6.7	9.4
150°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	4.0	4.0	5.4	6.7
152.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	5.4	5.4
155°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	5.4
157.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
160°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
162.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
165°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
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: P236305

CATALOG NUMBER: 4SWLED-80HL-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: P236305

CATALOG NUMBER: 4SWLED-80HL-LC-UNV-L840-CD1-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	3966.5	3966.5	3966.5	3966.5	3966.5	3966.5	3966.5	3966.5	3966.5	3966.5
1°	4021.6	4016.2	4012.2	4006.8	4001.4	4000.1	3997.4	3996.1	3985.3	3986.7
2°	4060.5	4064.6	4061.9	4056.5	4060.5	4055.2	4052.5	4047.1	4043.1	4044.4
3°	4107.5	4106.2	4094.1	4079.3	4069.9	4069.9	4049.8	4041.7	4017.6	4039.0
4°	4065.9	4037.7	3992.0	3970.6	3950.4	3947.7	3923.6	3900.7	3888.7	3910.1
5°	3953.1	3911.5	3853.7	3830.9	3808.1	3810.8	3790.6	3775.9	3766.5	3779.9
6°	3840.3	3802.7	3762.4	3738.3	3728.9	3722.1	3719.5	3723.5	3726.2	3724.8
7°	3761.1	3753.0	3749.0	3759.7	3769.1	3769.1	3785.3	3798.7	3802.7	3800.0
8°	3775.9	3802.7	3820.2	3826.9	3828.2	3830.9	3856.4	3856.4	3848.4	3851.1
9°	3836.3	3855.1	3873.9	3849.7	3802.7	3793.3	3704.7	3652.3	3578.5	3600.0
10°	3883.3	3848.4	3703.4	3583.8	3503.3	3476.4	3342.1	3283.1	3206.5	3228.0
11°	3802.7	3614.7	3395.9	3246.8	3170.3	3126.0	3038.7	3002.4	2987.7	2983.6
12°	3503.3	3284.4	3088.4	3002.4	2967.5	2954.1	2944.7	2955.4	2979.6	2986.3
13°	3230.7	3049.4	2959.5	2966.2	2983.6	3005.1	3080.3	3124.6	3167.6	3168.9
14°	3010.5	2955.4	3027.9	3119.2	3171.6	3205.2	3309.9	3382.4	3461.7	3476.4
15°	2952.7	3044.1	3215.9	3355.6	3421.4	3492.5	3630.8	3689.9	3734.2	3731.5
16°	3052.1	3209.2	3448.2	3612.0	3679.2	3726.2	3814.8	3868.5	3920.9	3928.9
17°	3218.6	3459.0	3679.2	3805.4	3853.7	3907.5	4071.3	4184.1	4279.4	4310.3
18°	3393.2	3645.6	3820.2	4024.3	4151.8	4256.6	4484.8	4693.0	4893.0	4930.6
19°	3587.9	3808.1	4099.5	4449.9	4607.0	4842.0	5248.9	5502.7	5705.4	5771.2
20°	3715.4	4063.2	4515.7	5175.0	5396.6	5657.1	6046.5	6239.8	6379.5	6410.4
21°	3939.7	4510.4	5287.8	5939.1	6163.3	6308.3	6566.1	6688.3	6723.2	6768.9
22°	4311.6	5219.3	6018.3	6492.3	6642.7	6725.9	6754.1	6662.8	6580.9	6548.7
23°	4993.7	5917.6	6501.7	6764.9	6750.1	6648.0	6418.4	6202.2	6061.2	6002.2
24°	5735.0	6454.7	6743.4	6520.5	6392.9	6175.4	5882.7	5665.1	5514.7	5442.2
25°	6258.6	6720.5	6476.2	6054.5	5892.1	5666.5	5312.0	5103.9	4956.2	4889.0
26°	6650.7	6591.6	6025.0	5541.6	5350.9	5133.4	4821.9	4705.1	4596.3	4531.8
27°	6687.0	6207.6	5545.6	5012.5	4842.0	4687.6	4454.0	4286.1	4172.0	4111.6
28°	6395.6	5759.1	5035.4	4608.4	4470.1	4282.1	4017.6	3852.4	3771.8	3680.5
29°	6023.7	5244.8	4611.1	4166.6	4016.2	3826.9	3563.7	3346.2	3293.8	3237.4
30°	5524.1	4776.2	4189.4	3694.0	3550.3	3346.2	3144.8	3073.6	3038.7	2994.4
32.5°	4349.2	3598.6	3109.8	2921.9	2878.9	2860.1	2933.9	2946.0	2943.3	2919.2
35°	3254.9	2845.3	2827.9	2799.7	2763.4	2728.5	2660.0	2621.1	2587.5	2545.9
37.5°	2779.5	2665.4	2505.6	2367.3	2305.5	2258.5	2187.4	2148.4	2116.2	2092.0
40°	2435.8	2200.8	2041.0	1944.3	1910.8	1855.7	1811.4	1787.2	1763.1	1730.8
42.5°	1965.8	1756.3	1630.1	1561.6	1541.5	1520.0	1537.5	1565.7	1579.1	1593.9
45°	1513.3	1418.0	1447.5	1510.6	1536.1	1563.0	1601.9	1610.0	1612.7	1611.3
47.5°	1318.6	1387.1	1422.0	1442.1	1438.1	1448.8	1481.1	1502.6	1516.0	1503.9
50°	1252.8	1262.2	1310.5	1360.2	1368.3	1354.9	1361.6	1379.0	1397.8	1400.5
52.5°	1133.3	1173.6	1211.2	1244.7	1274.3	1303.8	1352.2	1376.3	1391.1	1391.1
55°	1017.8	1091.7	1144.0	1191.0	1209.8	1217.9	1242.1	1251.5	1260.9	1254.1
57.5°	945.3	980.2	1015.1	1008.4	993.6	972.2	985.6	1001.7	1008.4	1004.4
60°	764.0	765.4	769.4	780.1	797.6	813.7	829.8	833.9	840.6	839.2
62.5°	604.2	617.7	639.2	674.1	683.5	683.5	699.6	711.7	715.7	710.3
65°	542.5	569.3	606.9	627.1	627.1	631.1	660.6	695.6	709.0	706.3



TEST NUMBER: P236305

CATALOG NUMBER: 4SWLED-80HL-LC-UNV-L840-CD1-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
67.5°	530.4	577.4	596.2	624.4	645.9	667.4	696.9	717.0	729.1	733.2
70°	538.4	573.4	611.0	649.9	667.4	686.2	721.1	749.3	760.0	761.3
72.5°	537.1	582.8	620.4	667.4	687.5	705.0	730.5	741.2	745.2	745.2
75°	533.1	578.7	631.1	664.7	680.8	698.2	713.0	721.1	727.8	730.5
77.5°	515.6	565.3	590.8	621.7	632.4	640.5	659.3	672.7	682.1	683.5
80°	494.1	517.0	535.8	561.3	569.3	581.4	600.2	608.3	615.0	615.0
82.5°	452.5	468.6	488.8	515.6	530.4	542.5	557.2	562.6	566.6	568.0
85°	408.2	424.3	449.8	472.7	483.4	494.1	507.6	515.6	518.3	515.6
87.5°	367.9	390.7	414.9	432.4	436.4	441.8	452.5	459.2	461.9	464.6
90°	331.7	354.5	373.3	388.1	388.1	393.4	398.8	400.1	397.5	400.1
92.5°	299.4	314.2	324.9	331.7	331.7	335.7	342.4	345.1	343.7	345.1
95°	260.5	271.2	276.6	280.6	284.7	290.0	295.4	296.8	296.8	298.1
97.5°	225.6	233.6	239.0	243.0	244.4	248.4	248.4	249.8	249.8	251.1
100°	194.7	202.8	204.1	202.8	204.1	205.4	206.8	209.5	210.8	212.2
102.5°	165.2	171.9	174.6	175.9	177.2	179.9	182.6	184.0	186.6	186.6
105°	137.0	145.0	150.4	153.1	153.1	155.8	158.4	161.1	162.5	163.8
107.5°	116.8	124.9	131.6	134.3	137.0	138.3	141.0	143.7	145.0	146.4
110°	100.7	108.8	116.8	122.2	123.5	126.2	128.9	131.6	132.9	134.3
112.5°	90.0	96.7	103.4	108.8	111.4	114.1	116.8	119.5	122.2	122.2
115°	79.2	87.3	92.7	98.0	100.7	102.1	106.1	110.1	111.4	112.8
117.5°	71.2	77.9	83.3	88.6	91.3	94.0	96.7	99.4	102.1	102.1
120°	63.1	69.8	75.2	79.2	81.9	83.3	87.3	90.0	91.3	92.7
122.5°	55.1	61.8	65.8	71.2	72.5	75.2	79.2	81.9	83.3	84.6
125°	48.3	53.7	59.1	64.5	65.8	68.5	73.9	76.5	79.2	80.6
127.5°	43.0	48.3	55.1	60.4	63.1	67.1	72.5	76.5	79.2	80.6
130°	38.9	47.0	53.7	60.4	64.5	67.1	73.9	79.2	81.9	81.9
132.5°	38.9	47.0	55.1	61.8	65.8	68.5	75.2	80.6	83.3	84.6
135°	37.6	44.3	52.4	59.1	63.1	65.8	71.2	75.2	77.9	77.9
137.5°	33.6	38.9	44.3	49.7	53.7	56.4	60.4	63.1	65.8	65.8
140°	26.9	30.9	34.9	38.9	41.6	44.3	48.3	49.7	52.4	52.4
142.5°	20.1	22.8	26.9	29.5	30.9	33.6	36.3	38.9	40.3	40.3
145°	14.8	17.5	18.8	21.5	22.8	24.2	26.9	28.2	29.5	29.5
147.5°	10.7	12.1	13.4	16.1	16.1	17.5	20.1	21.5	21.5	21.5
150°	8.1	9.4	10.7	10.7	12.1	12.1	14.8	16.1	16.1	16.1
152.5°	6.7	6.7	8.1	8.1	9.4	9.4	10.7	12.1	12.1	12.1
155°	5.4	5.4	5.4	5.4	6.7	6.7	8.1	8.1	9.4	9.4
157.5°	4.0	4.0	4.0	4.0	4.0	4.0	5.4	5.4	6.7	6.7
160°	4.0	4.0	2.7	2.7	2.7	2.7	4.0	4.0	4.0	4.0
162.5°	4.0	2.7	2.7	2.7	1.3	2.7	2.7	2.7	2.7	2.7
165°	2.7	2.7	2.7	1.3	1.3	1.3	1.3	1.3	1.3	2.7
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: P236305

CATALOG NUMBER: 4SWLED-80HL-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)