

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: P236282

Luminaire Tested: **4SWLED-48HL-LC-UNV-L850-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236282
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-48HL-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

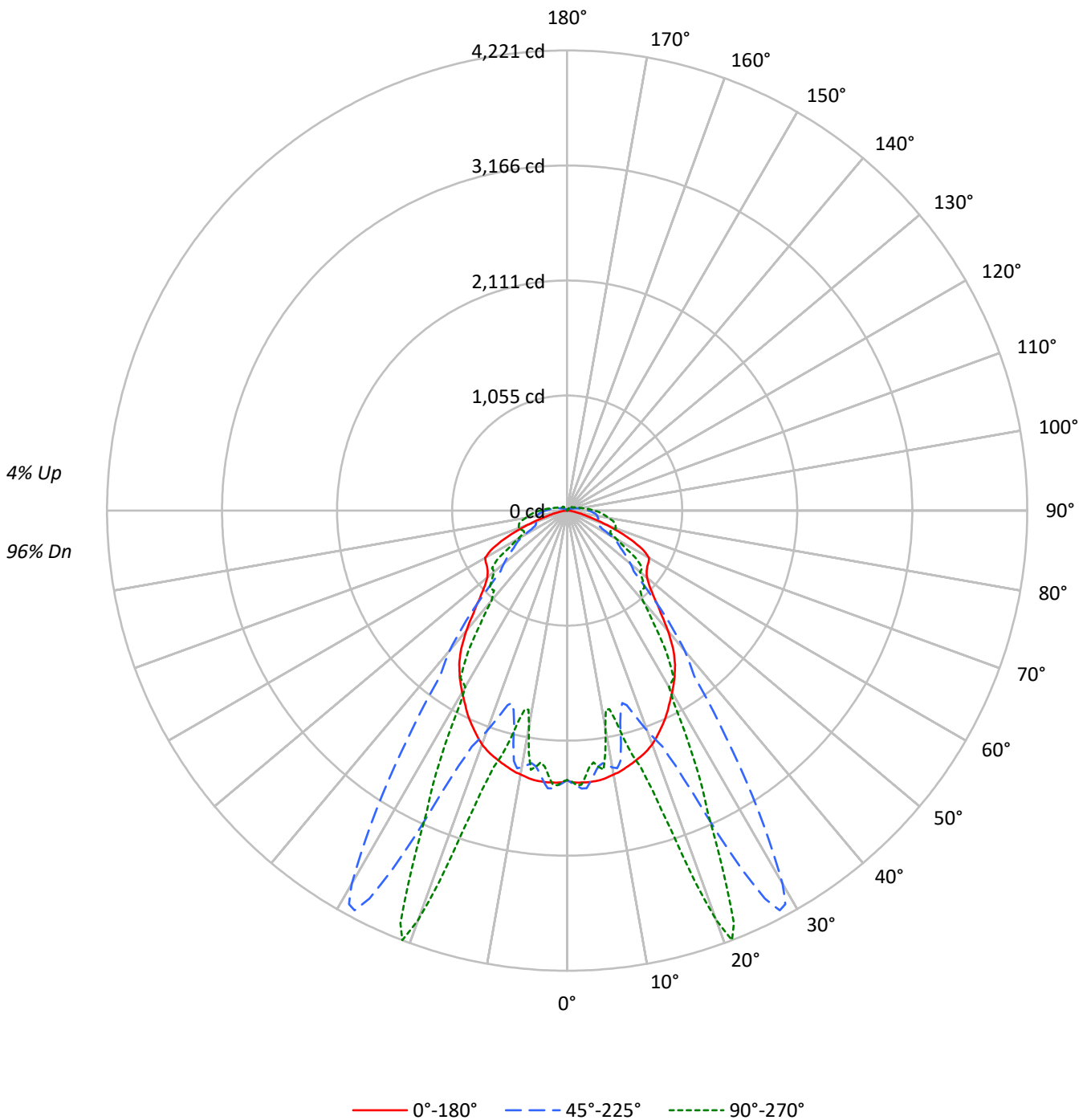
Lumens per Lamp: N/A
Luminaire Lumens: 6741.0 lumens
Efficiency: N/A
Efficacy: 151.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.15 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')
CIE Type: Direct

Input Watts (W): 44.6
Input Voltage (V): 120
Input Current (A_{in}): 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: P236282

CATALOG NUMBER: 4SWLED-48HL-LC-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P236282

CATALOG NUMBER: 4SWLED-48HL-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°	17748	17748	17748
5°	17933	17488	16419
10°	17798	16552	13725
15°	17543	13026	15654
20°	17201	14811	26739
25°	16492	22720	20432
30°	15641	27918	12634
35°	14747	18394	10930
40°	13044	12544	7622
45°	11043	8276	7341
50°	10212	6241	6662
55°	10654	5232	6290
60°	11720	4440	4488
65°	10496	3293	4077
70°	7424	3462	4815
75°	4271	3861	5152
80°	2695	4270	4944
85°	1459	4568	4861



TEST NUMBER: P236282

CATALOG NUMBER: 4SWLED-48HL-LC-UNV-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.5	3.4
10°-20°	651.2	9.7
20°-30°	1283.1	19.0
30°-40°	1323.9	19.6
40°-50°	1112.5	16.5
50°-60°	820.5	12.2
60°-70°	465.2	6.9
70°-80°	334.0	5.0
80°-90°	226.4	3.4
90°-100°	135.3	2.0
100°-110°	70.7	1.0
110°-120°	39.5	0.6
120°-130°	23.2	0.3
130°-140°	16.0	0.2
140°-150°	5.8	0.1
150°-160°	1.6	0.0
160°-170°	0.4	0.0
170°-180°	0.0	0.0
0°-30°	2165.8	32.1
0°-40°	3489.7	51.8
0°-60°	5422.8	80.4
0°-90°	6448.5	95.7
90°-120°	245.4	3.6
90°-150°	290.5	4.3
90°-180°	293.0	4.3
0°-180°	6741.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2473	2473	2473	2473	2473	
5°	2498	2534	2492	2374	2357	237
15°	2384	2282	1895	2133	2327	672
25°	2118	1890	3272	3674	3048	972
35°	1726	2127	2542	1723	1587	1068
45°	1128	2840	1061	958	1005	888
55°	896	1593	598	754	782	809
65°	666	640	319	391	440	646
75°	175	258	296	424	456	209
85°	25	108	246	301	322	32
90°	2	79	196	242	250	2
95°	1	63	153	178	186	1
105°	1	33	80	95	102	1
115°	2	15	44	63	70	2
125°	2	7	26	41	50	2
135°	2	3	19	39	49	1
145°	2	2	8	14	18	1
155°	2	2	3	4	6	1
165°	2	2	2	1	2	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P236282

CATALOG NUMBER: 4SWLED-48HL-LC-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2473.3	2473.3	2473.3	2473.3	2473.3	2473.3	2473.3	2473.3	2473.3	2473.3	2473.3
1°	2494.2	2492.5	2482.5	2477.4	2476.6	2474.9	2475.8	2477.4	2481.6	2481.6	2500.9
2°	2496.7	2495.9	2489.2	2485.8	2485.8	2485.8	2487.5	2492.5	2495.9	2496.7	2526.0
3°	2497.5	2498.4	2494.2	2491.7	2497.5	2497.5	2500.1	2506.7	2518.5	2522.7	2552.8
4°	2499.2	2502.6	2500.1	2499.2	2510.9	2519.3	2524.3	2533.5	2541.1	2541.9	2553.6
5°	2497.5	2501.7	2501.7	2511.8	2527.7	2534.4	2538.6	2544.4	2532.7	2500.9	2491.7
6°	2495.9	2502.6	2506.7	2525.2	2539.4	2545.3	2546.1	2520.1	2489.2	2452.3	2422.2
7°	2491.7	2498.4	2511.8	2536.1	2545.3	2544.4	2530.2	2476.6	2422.2	2375.3	2361.9
8°	2481.6	2491.7	2518.5	2538.6	2531.9	2505.9	2479.1	2420.5	2369.4	2335.9	2338.5
9°	2469.9	2480.8	2518.5	2532.7	2500.1	2463.2	2429.7	2356.9	2324.2	2319.2	2364.4
10°	2458.2	2475.8	2519.3	2520.1	2449.0	2411.3	2365.3	2315.9	2315.0	2342.6	2392.0
11°	2448.1	2469.1	2514.3	2495.0	2405.4	2363.6	2316.7	2302.5	2335.1	2366.1	2408.0
12°	2433.9	2462.4	2503.4	2461.5	2349.3	2309.2	2284.9	2311.7	2351.0	2379.5	2347.7
13°	2417.2	2449.0	2482.5	2411.3	2303.3	2275.7	2284.9	2329.3	2354.4	2337.6	2196.1
14°	2399.6	2440.6	2457.4	2366.9	2261.4	2268.1	2297.4	2332.6	2336.8	2191.9	2014.4
15°	2384.5	2429.7	2430.6	2317.5	2247.2	2281.5	2304.1	2320.9	2254.7	2051.3	1894.7
16°	2366.9	2418.0	2401.3	2282.4	2260.6	2292.4	2305.0	2290.7	2099.0	1900.6	1836.1
17°	2349.3	2401.3	2364.4	2251.4	2276.5	2294.1	2293.2	2203.7	1983.5	1833.6	1864.6
18°	2329.3	2380.3	2330.9	2229.6	2283.2	2284.0	2264.8	2101.5	1867.9	1820.2	1951.6
19°	2306.6	2356.0	2294.9	2216.2	2274.8	2256.4	2206.2	1987.6	1823.5	1871.3	2050.4
20°	2282.4	2328.4	2262.3	2217.9	2253.9	2212.9	2136.7	1898.9	1821.0	1953.3	2151.8
21°	2252.2	2295.8	2231.3	2226.3	2215.4	2143.4	2047.9	1847.0	1861.2	2029.5	2243.9
22°	2219.6	2261.4	2207.0	2226.3	2156.8	2076.4	1968.4	1826.1	1929.9	2109.1	2335.1
23°	2184.4	2229.6	2184.4	2215.4	2084.8	2001.9	1903.9	1844.5	1979.3	2186.9	2540.2
24°	2152.6	2193.6	2169.3	2189.4	2020.3	1939.1	1863.7	1884.7	2025.3	2274.8	2826.6
25°	2118.3	2159.3	2155.9	2147.6	1961.7	1890.5	1855.4	1917.3	2086.4	2490.0	3272.0
26°	2080.6	2122.4	2143.4	2086.4	1917.3	1865.4	1867.1	1941.6	2168.5	2760.4	3673.0
27°	2040.4	2088.1	2119.1	2019.5	1886.3	1862.9	1891.4	1959.2	2358.6	3184.1	3992.9
28°	2000.2	2048.8	2084.8	1952.5	1867.9	1879.6	1901.4	1996.9	2601.4	3548.3	4152.8
29°	1961.7	2011.9	2046.3	1900.6	1865.4	1900.6	1899.7	2108.2	2979.0	3862.3	4127.7
30°	1927.4	1975.1	2001.9	1866.2	1878.8	1903.1	1898.9	2292.4	3301.3	4023.0	3954.4
32.5°	1830.2	1867.9	1868.8	1835.3	1900.6	1896.4	2046.3	3030.0	3840.5	3863.9	3261.1
35°	1726.4	1738.1	1754.9	1857.0	1914.8	2126.6	2626.5	3510.6	3807.0	3212.6	2541.9
37.5°	1597.5	1595.8	1708.8	1872.9	2198.6	2688.4	3087.8	3586.8	3260.3	2487.5	1914.0
40°	1435.1	1453.5	1700.5	1935.7	2658.3	2929.6	3128.8	3361.6	2527.7	1917.3	1677.0
42.5°	1269.3	1353.0	1700.5	2192.8	2747.9	2897.7	3100.4	2807.3	2001.9	1635.2	1371.4
45°	1127.8	1300.3	1713.0	2405.4	2660.0	2840.0	2871.8	2241.3	1659.4	1265.9	1060.8
47.5°	1023.1	1250.9	1821.9	2322.6	2567.9	2611.4	2491.7	1870.4	1238.3	930.2	831.4
50°	954.5	1192.3	1868.8	2159.3	2377.0	2322.6	2145.9	1379.8	854.8	752.7	759.4
52.5°	918.5	1179.7	1740.7	2006.9	2135.8	2018.6	1692.1	933.5	689.1	674.0	678.2
55°	895.9	1142.0	1553.1	1798.4	1833.6	1593.3	1249.2	702.5	589.4	581.1	597.8
57.5°	885.0	1034.9	1368.1	1524.6	1440.1	1226.6	948.6	535.8	479.7	496.5	546.7
60°	868.2	922.7	1098.5	1199.0	1147.0	971.2	719.2	426.2	417.0	447.9	470.5
62.5°	789.5	792.0	768.6	946.9	938.6	787.9	568.5	365.0	349.1	358.3	363.4
65°	666.5	614.5	531.7	778.6	774.5	639.7	453.0	289.7	282.2	303.1	319.0



TEST NUMBER: P236282

CATALOG NUMBER: 4SWLED-48HL-LC-UNV-L850-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
67.5°	529.1	442.9	398.5	622.9	615.4	506.5	362.5	249.5	263.7	285.5	308.9
70°	389.3	325.7	314.0	490.6	484.8	406.1	303.9	231.1	254.5	277.1	301.4
72.5°	265.4	241.1	247.0	370.1	379.3	324.9	257.9	219.4	240.3	266.2	303.1
75°	175.0	176.7	190.1	272.1	290.5	257.9	217.7	204.3	226.9	257.9	295.6
77.5°	119.7	125.6	141.5	195.1	216.8	200.9	185.0	188.4	212.7	248.7	288.0
80°	78.7	84.6	101.3	138.1	160.8	159.9	159.1	175.0	202.6	241.1	279.6
82.5°	47.7	53.6	69.5	98.0	121.4	128.9	139.0	162.4	195.9	238.6	269.6
85°	25.1	31.0	46.0	70.3	94.6	108.0	122.2	152.4	192.6	229.4	246.2
87.5°	10.0	15.9	30.1	51.1	77.0	92.1	108.8	144.8	186.7	211.0	220.2
90°	1.7	7.5	19.3	38.5	63.6	78.7	97.1	139.0	173.3	184.2	195.9
92.5°	0.8	4.2	13.4	29.3	53.6	69.5	88.7	128.9	151.5	162.4	173.3
95°	0.8	2.5	10.0	23.4	46.0	62.8	81.2	113.0	129.8	140.7	153.2
97.5°	0.8	2.5	7.5	19.3	41.9	56.9	72.8	95.4	109.7	122.2	133.1
100°	0.8	1.7	6.7	16.7	36.8	48.6	60.3	77.9	90.4	103.8	113.9
102.5°	0.8	1.7	5.9	15.1	31.8	41.0	49.4	62.8	76.2	87.1	97.1
105°	0.8	1.7	5.0	13.4	26.0	32.7	39.4	51.9	63.6	73.7	80.4
107.5°	0.8	1.7	4.2	10.9	20.9	26.8	32.7	43.5	53.6	61.1	67.8
110°	0.8	0.8	3.3	9.2	17.6	22.6	26.8	36.0	44.4	51.9	57.8
112.5°	1.7	1.7	3.3	7.5	14.2	18.4	22.6	30.1	37.7	44.4	50.2
115°	1.7	1.7	2.5	5.9	11.7	15.1	18.4	25.1	31.8	38.5	44.4
117.5°	1.7	1.7	2.5	5.0	9.2	12.6	15.1	20.9	26.8	33.5	39.4
120°	1.7	1.7	1.7	4.2	8.4	10.0	12.6	17.6	23.4	29.3	34.3
122.5°	1.7	1.7	1.7	3.3	6.7	8.4	10.0	15.1	20.1	25.1	30.1
125°	1.7	1.7	1.7	2.5	5.0	6.7	8.4	12.6	16.7	21.8	26.0
127.5°	1.7	1.7	1.7	2.5	4.2	5.9	6.7	10.0	14.2	17.6	22.6
130°	1.7	1.7	1.7	1.7	3.3	4.2	5.9	8.4	11.7	15.9	20.1
132.5°	1.7	1.7	1.7	1.7	3.3	4.2	5.0	7.5	11.7	15.1	19.3
135°	1.7	1.7	1.7	1.7	2.5	3.3	5.0	7.5	10.9	15.1	19.3
137.5°	1.7	1.7	1.7	1.7	2.5	3.3	4.2	6.7	10.0	14.2	17.6
140°	1.7	1.7	1.7	1.7	1.7	2.5	3.3	5.9	8.4	10.9	14.2
142.5°	1.7	1.7	1.7	1.7	1.7	1.7	2.5	4.2	5.9	8.4	10.9
145°	1.7	1.7	1.7	1.7	1.7	1.7	2.5	3.3	4.2	5.9	7.5
147.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.5	3.3	4.2	5.9
150°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.5	2.5	3.3	4.2
152.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.3	3.3
155°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.3
157.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
160°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
162.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
165°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
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: P236282

CATALOG NUMBER: 4SWLED-48HL-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: P236282

CATALOG NUMBER: 4SWLED-48HL-LC-UNV-L850-CD1-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2473.3	2473.3	2473.3	2473.3	2473.3	2473.3	2473.3	2473.3	2473.3	2473.3
1°	2507.6	2504.2	2501.7	2498.4	2495.0	2494.2	2492.5	2491.7	2485.0	2485.8
2°	2531.9	2534.4	2532.7	2529.4	2531.9	2528.5	2526.8	2523.5	2521.0	2521.8
3°	2561.2	2560.3	2552.8	2543.6	2537.7	2537.7	2525.2	2520.1	2505.1	2518.5
4°	2535.2	2517.6	2489.2	2475.8	2463.2	2461.5	2446.5	2432.2	2424.7	2438.1
5°	2464.9	2438.9	2402.9	2388.7	2374.5	2376.1	2363.6	2354.4	2348.5	2356.9
6°	2394.6	2371.1	2346.0	2330.9	2325.1	2320.9	2319.2	2321.7	2323.4	2322.6
7°	2345.2	2340.1	2337.6	2344.3	2350.2	2350.2	2360.2	2368.6	2371.1	2369.4
8°	2354.4	2371.1	2382.0	2386.2	2387.0	2388.7	2404.6	2404.6	2399.6	2401.3
9°	2392.0	2403.8	2415.5	2400.4	2371.1	2365.3	2310.0	2277.3	2231.3	2244.7
10°	2421.3	2399.6	2309.2	2234.6	2184.4	2167.7	2083.9	2047.1	1999.4	2012.8
11°	2371.1	2253.9	2117.4	2024.5	1976.8	1949.1	1894.7	1872.1	1862.9	1860.4
12°	2184.4	2047.9	1925.7	1872.1	1850.3	1842.0	1836.1	1842.8	1857.9	1862.1
13°	2014.4	1901.4	1845.3	1849.5	1860.4	1873.8	1920.7	1948.3	1975.1	1975.9
14°	1877.1	1842.8	1888.0	1944.9	1977.6	1998.5	2063.8	2109.1	2158.4	2167.7
15°	1841.1	1898.1	2005.2	2092.3	2133.3	2177.7	2263.9	2300.8	2328.4	2326.7
16°	1903.1	2001.0	2150.1	2252.2	2294.1	2323.4	2378.6	2412.1	2444.8	2449.8
17°	2006.9	2156.8	2294.1	2372.8	2402.9	2436.4	2538.6	2608.9	2668.3	2687.6
18°	2115.7	2273.2	2382.0	2509.3	2588.8	2654.1	2796.4	2926.2	3051.0	3074.4
19°	2237.2	2374.5	2556.1	2774.7	2872.6	3019.2	3272.8	3431.1	3557.5	3598.5
20°	2316.7	2533.5	2815.7	3226.8	3364.9	3527.4	3770.2	3890.7	3977.8	3997.1
21°	2456.5	2812.3	3297.1	3703.2	3843.0	3933.4	4094.2	4170.4	4192.1	4220.6
22°	2688.4	3254.4	3752.6	4048.1	4141.9	4193.8	4211.4	4154.5	4103.4	4083.3
23°	3113.8	3689.8	4054.0	4218.1	4208.9	4145.3	4002.1	3867.3	3779.4	3742.5
24°	3575.9	4024.7	4204.7	4065.7	3986.2	3850.5	3668.0	3532.4	3438.6	3393.4
25°	3902.5	4190.5	4038.1	3775.2	3673.9	3533.2	3312.2	3182.4	3090.3	3048.5
26°	4146.9	4110.1	3756.8	3455.4	3336.5	3200.8	3006.6	2933.8	2865.9	2825.7
27°	4169.5	3870.6	3457.9	3125.5	3019.2	2922.9	2777.2	2672.5	2601.4	2563.7
28°	3987.9	3591.0	3139.7	2873.5	2787.2	2670.0	2505.1	2402.1	2351.9	2294.9
29°	3755.9	3270.3	2875.1	2598.0	2504.2	2386.2	2222.1	2086.4	2053.8	2018.6
30°	3444.5	2978.1	2612.2	2303.3	2213.7	2086.4	1960.9	1916.5	1894.7	1867.1
32.5°	2711.9	2243.9	1939.1	1821.9	1795.1	1783.4	1829.4	1836.9	1835.3	1820.2
35°	2029.5	1774.1	1763.3	1745.7	1723.1	1701.3	1658.6	1634.3	1613.4	1587.4
37.5°	1733.1	1662.0	1562.3	1476.1	1437.6	1408.3	1363.9	1339.6	1319.5	1304.4
40°	1518.8	1372.3	1272.6	1212.3	1191.4	1157.1	1129.5	1114.4	1099.3	1079.2
42.5°	1225.7	1095.1	1016.4	973.7	961.2	947.8	958.7	976.2	984.6	993.8
45°	943.6	884.1	902.6	941.9	957.8	974.6	998.8	1003.9	1005.5	1004.7
47.5°	822.2	864.9	886.7	899.2	896.7	903.4	923.5	936.9	945.3	937.7
50°	781.2	787.0	817.2	848.1	853.2	844.8	849.0	859.9	871.6	873.3
52.5°	706.6	731.8	755.2	776.1	794.6	813.0	843.1	858.2	867.4	867.4
55°	634.6	680.7	713.3	742.6	754.4	759.4	774.5	780.3	786.2	782.0
57.5°	589.4	611.2	633.0	628.8	619.6	606.2	614.5	624.6	628.8	626.3
60°	476.4	477.2	479.7	486.4	497.3	507.4	517.4	519.9	524.1	523.3
62.5°	376.8	385.1	398.5	420.3	426.2	426.2	436.2	443.7	446.3	442.9
65°	338.3	355.0	378.4	391.0	391.0	393.5	411.9	433.7	442.1	440.4



TEST NUMBER: P236282

CATALOG NUMBER: 4SWLED-48HL-LC-UNV-L850-CD1-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
67.5°	330.7	360.0	371.7	389.3	402.7	416.1	434.5	447.1	454.6	457.1
70°	335.7	357.5	381.0	405.2	416.1	427.8	449.6	467.2	473.9	474.7
72.5°	334.9	363.4	386.8	416.1	428.7	439.6	455.5	462.2	464.7	464.7
75°	332.4	360.9	393.5	414.4	424.5	435.4	444.6	449.6	453.8	455.5
77.5°	321.5	352.5	368.4	387.7	394.3	399.4	411.1	419.5	425.3	426.2
80°	308.1	322.3	334.1	350.0	355.0	362.5	374.3	379.3	383.5	383.5
82.5°	282.2	292.2	304.8	321.5	330.7	338.3	347.5	350.8	353.3	354.2
85°	254.5	264.6	280.5	294.7	301.4	308.1	316.5	321.5	323.2	321.5
87.5°	229.4	243.6	258.7	269.6	272.1	275.5	282.2	286.3	288.0	289.7
90°	206.8	221.0	232.8	242.0	242.0	245.3	248.7	249.5	247.8	249.5
92.5°	186.7	195.9	202.6	206.8	206.8	209.3	213.5	215.2	214.3	215.2
95°	162.4	169.1	172.5	175.0	177.5	180.8	184.2	185.0	185.0	185.9
97.5°	140.7	145.7	149.0	151.5	152.4	154.9	154.9	155.7	155.7	156.6
100°	121.4	126.4	127.3	126.4	127.3	128.1	128.9	130.6	131.4	132.3
102.5°	103.0	107.2	108.8	109.7	110.5	112.2	113.9	114.7	116.4	116.4
105°	85.4	90.4	93.8	95.4	95.4	97.1	98.8	100.5	101.3	102.1
107.5°	72.8	77.9	82.1	83.7	85.4	86.2	87.9	89.6	90.4	91.3
110°	62.8	67.8	72.8	76.2	77.0	78.7	80.4	82.1	82.9	83.7
112.5°	56.1	60.3	64.5	67.8	69.5	71.2	72.8	74.5	76.2	76.2
115°	49.4	54.4	57.8	61.1	62.8	63.6	66.1	68.7	69.5	70.3
117.5°	44.4	48.6	51.9	55.3	56.9	58.6	60.3	62.0	63.6	63.6
120°	39.4	43.5	46.9	49.4	51.1	51.9	54.4	56.1	56.9	57.8
122.5°	34.3	38.5	41.0	44.4	45.2	46.9	49.4	51.1	51.9	52.7
125°	30.1	33.5	36.8	40.2	41.0	42.7	46.0	47.7	49.4	50.2
127.5°	26.8	30.1	34.3	37.7	39.4	41.9	45.2	47.7	49.4	50.2
130°	24.3	29.3	33.5	37.7	40.2	41.9	46.0	49.4	51.1	51.1
132.5°	24.3	29.3	34.3	38.5	41.0	42.7	46.9	50.2	51.9	52.7
135°	23.4	27.6	32.7	36.8	39.4	41.0	44.4	46.9	48.6	48.6
137.5°	20.9	24.3	27.6	31.0	33.5	35.2	37.7	39.4	41.0	41.0
140°	16.7	19.3	21.8	24.3	26.0	27.6	30.1	31.0	32.7	32.7
142.5°	12.6	14.2	16.7	18.4	19.3	20.9	22.6	24.3	25.1	25.1
145°	9.2	10.9	11.7	13.4	14.2	15.1	16.7	17.6	18.4	18.4
147.5°	6.7	7.5	8.4	10.0	10.0	10.9	12.6	13.4	13.4	13.4
150°	5.0	5.9	6.7	6.7	7.5	7.5	9.2	10.0	10.0	10.0
152.5°	4.2	4.2	5.0	5.0	5.9	5.9	6.7	7.5	7.5	7.5
155°	3.3	3.3	3.3	3.3	4.2	4.2	5.0	5.0	5.9	5.9
157.5°	2.5	2.5	2.5	2.5	2.5	2.5	3.3	3.3	4.2	4.2
160°	2.5	2.5	1.7	1.7	1.7	1.7	2.5	2.5	2.5	2.5
162.5°	2.5	1.7	1.7	1.7	0.8	1.7	1.7	1.7	1.7	1.7
165°	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8	0.8	1.7
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: P236282

CATALOG NUMBER: 4SWLED-48HL-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)