

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: P236280

Luminaire Tested: **4SWLED-48HL-LC-UNV-L835-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236280
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-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

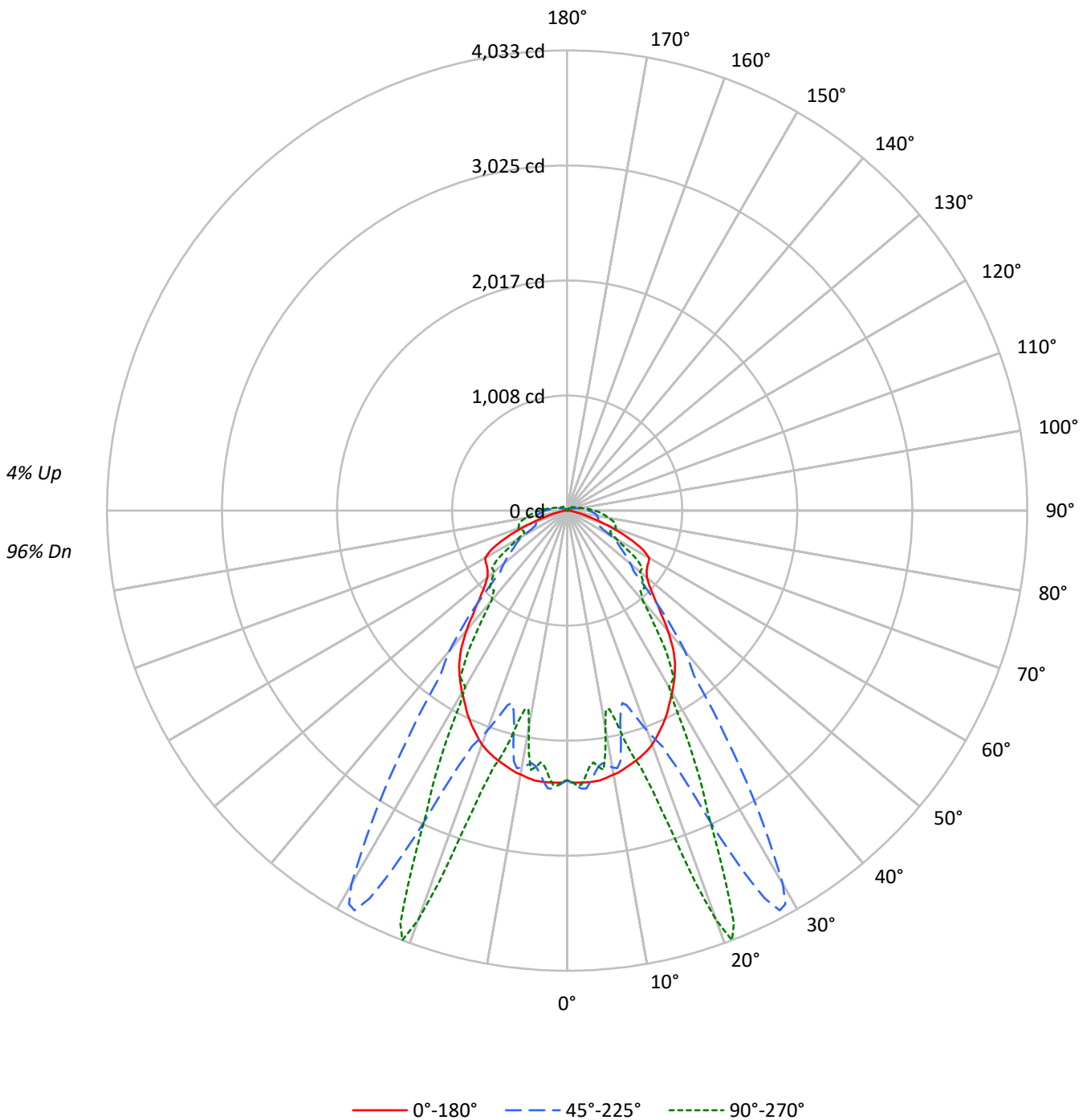
Lumens per Lamp: N/A
Luminaire Lumens: 6441.9 lumens
Efficiency: N/A
Efficacy: 144.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.15 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')
CIE Type: Direct

Input Watts (W): 44.6
Input Voltage (V): 120
Input Current (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: P236280

CATALOG NUMBER: 4SWLED-48HL-LC-UNV-L835-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	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°	16961	16961	16961
5°	17138	16713	15690
10°	17008	15818	13116
15°	16765	12449	14960
20°	16438	14154	25553
25°	15760	21713	19525
30°	14947	26680	12074
35°	14093	17578	10445
40°	12465	11987	7285
45°	10553	7909	7015
50°	9758	5964	6366
55°	10180	5000	6011
60°	11200	4243	4289
65°	10030	3146	3897
70°	7096	3309	4602
75°	4081	3689	4923
80°	2575	4081	4725
85°	1395	4364	4645



TEST NUMBER: P236280

CATALOG NUMBER: 4SWLED-48HL-LC-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.2	3.4
10°-20°	622.3	9.7
20°-30°	1226.2	19.0
30°-40°	1265.2	19.6
40°-50°	1063.2	16.5
50°-60°	784.1	12.2
60°-70°	444.6	6.9
70°-80°	319.2	5.0
80°-90°	216.4	3.4
90°-100°	129.2	2.0
100°-110°	67.5	1.0
110°-120°	37.8	0.6
120°-130°	22.1	0.3
130°-140°	15.3	0.2
140°-150°	5.6	0.1
150°-160°	1.6	0.0
160°-170°	0.4	0.0
170°-180°	0.0	0.0
0°-30°	2069.8	32.1
0°-40°	3334.9	51.8
0°-60°	5182.2	80.4
0°-90°	6162.4	95.7
90°-120°	234.5	3.6
90°-150°	277.6	4.3
90°-180°	280.0	4.3
0°-180°	6441.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2364	2364	2364	2364	2364	
5°	2387	2422	2381	2269	2252	227
15°	2279	2180	1811	2039	2224	642
25°	2024	1807	3127	3511	2913	929
35°	1650	2032	2429	1647	1517	1020
45°	1078	2714	1014	915	960	849
55°	856	1523	571	721	747	773
65°	637	611	305	374	421	617
75°	167	246	282	406	435	200
85°	24	103	235	288	307	30
90°	2	75	187	231	238	2
95°	1	60	146	170	178	1
105°	1	31	77	91	98	1
115°	2	14	42	60	67	1
125°	2	6	25	39	48	1
135°	2	3	18	38	46	1
145°	2	2	7	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: P236280

CATALOG NUMBER: 4SWLED-48HL-LC-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2363.6	2363.6	2363.6	2363.6	2363.6	2363.6	2363.6	2363.6	2363.6	2363.6	2363.6
1°	2383.6	2382.0	2372.4	2367.6	2366.8	2365.2	2366.0	2367.6	2371.6	2371.6	2390.0
2°	2386.0	2385.2	2378.8	2375.6	2375.6	2375.6	2377.2	2382.0	2385.2	2386.0	2414.0
3°	2386.8	2387.6	2383.6	2381.2	2386.8	2386.8	2389.2	2395.6	2406.8	2410.8	2439.6
4°	2388.4	2391.6	2389.2	2388.4	2399.6	2407.6	2412.4	2421.2	2428.4	2429.2	2440.4
5°	2386.8	2390.8	2390.8	2400.4	2415.6	2422.0	2426.0	2431.6	2420.4	2390.0	2381.2
6°	2385.2	2391.6	2395.6	2413.2	2426.8	2432.4	2433.2	2408.4	2378.8	2343.6	2314.7
7°	2381.2	2387.6	2400.4	2423.6	2432.4	2431.6	2418.0	2366.8	2314.7	2269.9	2257.1
8°	2371.6	2381.2	2406.8	2426.0	2419.6	2394.8	2369.2	2313.1	2264.3	2232.3	2234.7
9°	2360.4	2370.8	2406.8	2420.4	2389.2	2354.0	2321.9	2252.3	2221.1	2216.3	2259.5
10°	2349.2	2366.0	2407.6	2408.4	2340.4	2304.3	2260.3	2213.1	2212.3	2238.7	2285.9
11°	2339.6	2359.6	2402.8	2384.4	2298.7	2258.7	2213.9	2200.3	2231.5	2261.1	2301.1
12°	2326.0	2353.2	2392.4	2352.4	2245.1	2206.7	2183.5	2209.1	2246.7	2273.9	2243.5
13°	2309.9	2340.4	2372.4	2304.3	2201.1	2174.7	2183.5	2225.9	2249.9	2233.9	2098.7
14°	2293.1	2332.4	2348.4	2261.9	2161.1	2167.5	2195.5	2229.1	2233.1	2094.7	1925.1
15°	2278.7	2321.9	2322.7	2214.7	2147.5	2180.3	2201.9	2217.9	2154.7	1960.3	1810.7
16°	2261.9	2310.7	2294.7	2181.1	2160.3	2190.7	2202.7	2189.1	2005.9	1816.3	1754.7
17°	2245.1	2294.7	2259.5	2151.5	2175.5	2192.3	2191.5	2105.9	1895.5	1752.3	1781.9
18°	2225.9	2274.7	2227.5	2130.7	2181.9	2182.7	2164.3	2008.3	1785.1	1739.5	1865.1
19°	2204.3	2251.5	2193.1	2117.9	2173.9	2156.3	2108.3	1899.5	1742.7	1788.3	1959.5
20°	2181.1	2225.1	2161.9	2119.5	2153.9	2114.7	2041.9	1814.7	1740.3	1866.7	2056.3
21°	2152.3	2193.9	2132.3	2127.5	2117.1	2048.3	1957.1	1765.1	1778.7	1939.5	2144.3
22°	2121.1	2161.1	2109.1	2127.5	2061.1	1984.3	1881.1	1745.1	1844.3	2015.5	2231.5
23°	2087.5	2130.7	2087.5	2117.1	1992.3	1913.1	1819.5	1762.7	1891.5	2089.9	2427.6
24°	2057.1	2096.3	2073.1	2092.3	1930.7	1853.1	1781.1	1801.1	1935.5	2173.9	2701.2
25°	2024.3	2063.5	2060.3	2052.3	1874.7	1806.7	1773.1	1832.3	1993.9	2379.6	3126.9
26°	1988.3	2028.3	2048.3	1993.9	1832.3	1782.7	1784.3	1855.5	2072.3	2638.0	3510.1
27°	1949.9	1995.5	2025.1	1929.9	1802.7	1780.3	1807.5	1872.3	2253.9	3042.9	3815.8
28°	1911.5	1957.9	1992.3	1865.9	1785.1	1796.3	1817.1	1908.3	2486.0	3390.9	3968.6
29°	1874.7	1922.7	1955.5	1816.3	1782.7	1816.3	1815.5	2014.7	2846.8	3691.0	3944.6
30°	1841.9	1887.5	1913.1	1783.5	1795.5	1818.7	1814.7	2190.7	3154.9	3844.6	3779.0
32.5°	1749.1	1785.1	1785.9	1753.9	1816.3	1812.3	1955.5	2895.6	3670.2	3692.6	3116.5
35°	1649.8	1661.1	1677.1	1774.7	1829.9	2032.3	2510.0	3354.9	3638.1	3070.1	2429.2
37.5°	1526.6	1525.0	1633.0	1789.9	2101.1	2569.2	2950.8	3427.7	3115.7	2377.2	1829.1
40°	1371.4	1389.0	1625.0	1849.9	2540.4	2799.6	2990.1	3212.5	2415.6	1832.3	1602.6
42.5°	1213.0	1293.0	1625.0	2095.5	2626.0	2769.2	2962.8	2682.8	1913.1	1562.6	1310.6
45°	1077.8	1242.6	1637.0	2298.7	2542.0	2714.0	2744.4	2141.9	1585.8	1209.8	1013.8
47.5°	977.7	1195.4	1741.1	2219.5	2454.0	2495.6	2381.2	1787.5	1183.4	888.9	794.5
50°	912.1	1139.4	1785.9	2063.5	2271.5	2219.5	2050.7	1318.6	816.9	719.3	725.7
52.5°	877.7	1127.4	1663.5	1917.9	2041.1	1929.1	1617.0	892.1	658.5	644.1	648.1
55°	856.1	1091.4	1484.2	1718.7	1752.3	1522.6	1193.8	671.3	563.3	555.3	571.3
57.5°	845.7	988.9	1307.4	1457.0	1376.2	1172.2	906.5	512.1	458.5	474.5	522.5
60°	829.7	881.7	1049.8	1145.8	1096.2	928.1	687.3	407.3	398.5	428.1	449.7
62.5°	754.5	756.9	734.5	904.9	896.9	752.9	543.3	348.9	333.7	342.5	347.3
65°	636.9	587.3	508.1	744.1	740.1	611.3	432.9	276.8	269.6	289.6	304.8



TEST NUMBER: P236280

CATALOG NUMBER: 4SWLED-48HL-LC-UNV-L835-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
67.5°	505.7	423.3	380.9	595.3	588.1	484.1	346.5	238.4	252.0	272.8	295.2
70°	372.1	311.2	300.0	468.9	463.3	388.1	290.4	220.8	243.2	264.8	288.0
72.5°	253.6	230.4	236.0	353.7	362.5	310.4	246.4	209.6	229.6	254.4	289.6
75°	167.2	168.8	181.6	260.0	277.6	246.4	208.0	195.2	216.8	246.4	282.4
77.5°	114.4	120.0	135.2	186.4	207.2	192.0	176.8	180.0	203.2	237.6	275.2
80°	75.2	80.8	96.8	132.0	153.6	152.8	152.0	167.2	193.6	230.4	267.2
82.5°	45.6	51.2	66.4	93.6	116.0	123.2	132.8	155.2	187.2	228.0	257.6
85°	24.0	29.6	44.0	67.2	90.4	103.2	116.8	145.6	184.0	219.2	235.2
87.5°	9.6	15.2	28.8	48.8	73.6	88.0	104.0	138.4	178.4	201.6	210.4
90°	1.6	7.2	18.4	36.8	60.8	75.2	92.8	132.8	165.6	176.0	187.2
92.5°	0.8	4.0	12.8	28.0	51.2	66.4	84.8	123.2	144.8	155.2	165.6
95°	0.8	2.4	9.6	22.4	44.0	60.0	77.6	108.0	124.0	134.4	146.4
97.5°	0.8	2.4	7.2	18.4	40.0	54.4	69.6	91.2	104.8	116.8	127.2
100°	0.8	1.6	6.4	16.0	35.2	46.4	57.6	74.4	86.4	99.2	108.8
102.5°	0.8	1.6	5.6	14.4	30.4	39.2	47.2	60.0	72.8	83.2	92.8
105°	0.8	1.6	4.8	12.8	24.8	31.2	37.6	49.6	60.8	70.4	76.8
107.5°	0.8	1.6	4.0	10.4	20.0	25.6	31.2	41.6	51.2	58.4	64.8
110°	0.8	0.8	3.2	8.8	16.8	21.6	25.6	34.4	42.4	49.6	55.2
112.5°	1.6	1.6	3.2	7.2	13.6	17.6	21.6	28.8	36.0	42.4	48.0
115°	1.6	1.6	2.4	5.6	11.2	14.4	17.6	24.0	30.4	36.8	42.4
117.5°	1.6	1.6	2.4	4.8	8.8	12.0	14.4	20.0	25.6	32.0	37.6
120°	1.6	1.6	1.6	4.0	8.0	9.6	12.0	16.8	22.4	28.0	32.8
122.5°	1.6	1.6	1.6	3.2	6.4	8.0	9.6	14.4	19.2	24.0	28.8
125°	1.6	1.6	1.6	2.4	4.8	6.4	8.0	12.0	16.0	20.8	24.8
127.5°	1.6	1.6	1.6	2.4	4.0	5.6	6.4	9.6	13.6	16.8	21.6
130°	1.6	1.6	1.6	1.6	3.2	4.0	5.6	8.0	11.2	15.2	19.2
132.5°	1.6	1.6	1.6	1.6	3.2	4.0	4.8	7.2	11.2	14.4	18.4
135°	1.6	1.6	1.6	1.6	2.4	3.2	4.8	7.2	10.4	14.4	18.4
137.5°	1.6	1.6	1.6	1.6	2.4	3.2	4.0	6.4	9.6	13.6	16.8
140°	1.6	1.6	1.6	1.6	1.6	2.4	3.2	5.6	8.0	10.4	13.6
142.5°	1.6	1.6	1.6	1.6	1.6	1.6	2.4	4.0	5.6	8.0	10.4
145°	1.6	1.6	1.6	1.6	1.6	1.6	2.4	3.2	4.0	5.6	7.2
147.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.4	3.2	4.0	5.6
150°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.4	2.4	3.2	4.0
152.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.2	3.2
155°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.2
157.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
160°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
162.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
165°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
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: P236280

CATALOG NUMBER: 4SWLED-48HL-LC-UNV-L835-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: P236280

CATALOG NUMBER: 4SWLED-48HL-LC-UNV-L835-CD1-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2363.6	2363.6	2363.6	2363.6	2363.6	2363.6	2363.6	2363.6	2363.6	2363.6
1°	2396.4	2393.2	2390.8	2387.6	2384.4	2383.6	2382.0	2381.2	2374.8	2375.6
2°	2419.6	2422.0	2420.4	2417.2	2419.6	2416.4	2414.8	2411.6	2409.2	2410.0
3°	2447.6	2446.8	2439.6	2430.8	2425.2	2425.2	2413.2	2408.4	2394.0	2406.8
4°	2422.8	2406.0	2378.8	2366.0	2354.0	2352.4	2338.0	2324.4	2317.1	2330.0
5°	2355.6	2330.8	2296.3	2282.7	2269.1	2270.7	2258.7	2249.9	2244.3	2252.3
6°	2288.3	2265.9	2241.9	2227.5	2221.9	2217.9	2216.3	2218.7	2220.3	2219.5
7°	2241.1	2236.3	2233.9	2240.3	2245.9	2245.9	2255.5	2263.5	2265.9	2264.3
8°	2249.9	2265.9	2276.3	2280.3	2281.1	2282.7	2297.9	2297.9	2293.1	2294.7
9°	2285.9	2297.1	2308.3	2293.9	2265.9	2260.3	2207.5	2176.3	2132.3	2145.1
10°	2313.9	2293.1	2206.7	2135.5	2087.5	2071.5	1991.5	1956.3	1910.7	1923.5
11°	2265.9	2153.9	2023.5	1934.7	1889.1	1862.7	1810.7	1789.1	1780.3	1777.9
12°	2087.5	1957.1	1840.3	1789.1	1768.3	1760.3	1754.7	1761.1	1775.5	1779.5
13°	1925.1	1817.1	1763.5	1767.5	1777.9	1790.7	1835.5	1861.9	1887.5	1888.3
14°	1793.9	1761.1	1804.3	1858.7	1889.9	1909.9	1972.3	2015.5	2062.7	2071.5
15°	1759.5	1813.9	1916.3	1999.5	2038.7	2081.1	2163.5	2198.7	2225.1	2223.5
16°	1818.7	1912.3	2054.7	2152.3	2192.3	2220.3	2273.1	2305.1	2336.4	2341.2
17°	1917.9	2061.1	2192.3	2267.5	2296.3	2328.4	2426.0	2493.2	2550.0	2568.4
18°	2021.9	2172.3	2276.3	2398.0	2474.0	2536.4	2672.4	2796.4	2915.6	2938.0
19°	2137.9	2269.1	2442.8	2651.6	2745.2	2885.2	3127.7	3278.9	3399.7	3438.9
20°	2213.9	2421.2	2690.8	3083.7	3215.7	3370.9	3602.9	3718.2	3801.4	3819.8
21°	2347.6	2687.6	3150.9	3538.9	3672.6	3759.0	3912.6	3985.4	4006.2	4033.4
22°	2569.2	3110.1	3586.1	3868.6	3958.2	4007.8	4024.6	3970.2	3921.4	3902.2
23°	2975.6	3526.1	3874.2	4031.0	4022.2	3961.4	3824.6	3695.8	3611.7	3576.5
24°	3417.3	3846.2	4018.2	3885.4	3809.4	3679.8	3505.3	3375.7	3286.1	3242.9
25°	3729.4	4004.6	3859.0	3607.7	3510.9	3376.5	3165.3	3041.3	2953.2	2913.2
26°	3963.0	3927.8	3590.1	3302.1	3188.5	3058.9	2873.2	2803.6	2738.8	2700.4
27°	3984.6	3699.0	3304.5	2986.9	2885.2	2793.2	2654.0	2554.0	2486.0	2450.0
28°	3811.0	3431.7	3000.5	2746.0	2663.6	2551.6	2394.0	2295.5	2247.5	2193.1
29°	3589.3	3125.3	2747.6	2482.8	2393.2	2280.3	2123.5	1993.9	1962.7	1929.1
30°	3291.7	2846.0	2496.4	2201.1	2115.5	1993.9	1873.9	1831.5	1810.7	1784.3
32.5°	2591.6	2144.3	1853.1	1741.1	1715.5	1704.3	1748.3	1755.5	1753.9	1739.5
35°	1939.5	1695.5	1685.1	1668.3	1646.6	1625.8	1585.0	1561.8	1541.8	1517.0
37.5°	1656.2	1588.2	1493.0	1410.6	1373.8	1345.8	1303.4	1280.2	1261.0	1246.6
40°	1451.4	1311.4	1216.2	1158.6	1138.6	1105.8	1079.4	1065.0	1050.6	1031.4
42.5°	1171.4	1046.6	971.3	930.5	918.5	905.7	916.1	932.9	940.9	949.7
45°	901.7	844.9	862.5	900.1	915.3	931.3	954.5	959.3	960.9	960.1
47.5°	785.7	826.5	847.3	859.3	856.9	863.3	882.5	895.3	903.3	896.1
50°	746.5	752.1	780.9	810.5	815.3	807.3	811.3	821.7	832.9	834.5
52.5°	675.3	699.3	721.7	741.7	759.3	776.9	805.7	820.1	828.9	828.9
55°	606.5	650.5	681.7	709.7	720.9	725.7	740.1	745.7	751.3	747.3
57.5°	563.3	584.1	604.9	600.9	592.1	579.3	587.3	596.9	600.9	598.5
60°	455.3	456.1	458.5	464.9	475.3	484.9	494.5	496.9	500.9	500.1
62.5°	360.1	368.1	380.9	401.7	407.3	407.3	416.9	424.1	426.5	423.3
65°	323.2	339.3	361.7	373.7	373.7	376.1	393.7	414.5	422.5	420.9



TEST NUMBER: P236280

CATALOG NUMBER: 4SWLED-48HL-LC-UNV-L835-CD1-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
67.5°	316.0	344.1	355.3	372.1	384.9	397.7	415.3	427.3	434.5	436.9
70°	320.8	341.7	364.1	387.3	397.7	408.9	429.7	446.5	452.9	453.7
72.5°	320.0	347.3	369.7	397.7	409.7	420.1	435.3	441.7	444.1	444.1
75°	317.6	344.9	376.1	396.1	405.7	416.1	424.9	429.7	433.7	435.3
77.5°	307.2	336.9	352.1	370.5	376.9	381.7	392.9	400.9	406.5	407.3
80°	294.4	308.0	319.2	334.5	339.3	346.5	357.7	362.5	366.5	366.5
82.5°	269.6	279.2	291.2	307.2	316.0	323.2	332.1	335.3	337.7	338.5
85°	243.2	252.8	268.0	281.6	288.0	294.4	302.4	307.2	308.8	307.2
87.5°	219.2	232.8	247.2	257.6	260.0	263.2	269.6	273.6	275.2	276.8
90°	197.6	211.2	222.4	231.2	231.2	234.4	237.6	238.4	236.8	238.4
92.5°	178.4	187.2	193.6	197.6	197.6	200.0	204.0	205.6	204.8	205.6
95°	155.2	161.6	164.8	167.2	169.6	172.8	176.0	176.8	176.8	177.6
97.5°	134.4	139.2	142.4	144.8	145.6	148.0	148.0	148.8	148.8	149.6
100°	116.0	120.8	121.6	120.8	121.6	122.4	123.2	124.8	125.6	126.4
102.5°	98.4	102.4	104.0	104.8	105.6	107.2	108.8	109.6	111.2	111.2
105°	81.6	86.4	89.6	91.2	91.2	92.8	94.4	96.0	96.8	97.6
107.5°	69.6	74.4	78.4	80.0	81.6	82.4	84.0	85.6	86.4	87.2
110°	60.0	64.8	69.6	72.8	73.6	75.2	76.8	78.4	79.2	80.0
112.5°	53.6	57.6	61.6	64.8	66.4	68.0	69.6	71.2	72.8	72.8
115°	47.2	52.0	55.2	58.4	60.0	60.8	63.2	65.6	66.4	67.2
117.5°	42.4	46.4	49.6	52.8	54.4	56.0	57.6	59.2	60.8	60.8
120°	37.6	41.6	44.8	47.2	48.8	49.6	52.0	53.6	54.4	55.2
122.5°	32.8	36.8	39.2	42.4	43.2	44.8	47.2	48.8	49.6	50.4
125°	28.8	32.0	35.2	38.4	39.2	40.8	44.0	45.6	47.2	48.0
127.5°	25.6	28.8	32.8	36.0	37.6	40.0	43.2	45.6	47.2	48.0
130°	23.2	28.0	32.0	36.0	38.4	40.0	44.0	47.2	48.8	48.8
132.5°	23.2	28.0	32.8	36.8	39.2	40.8	44.8	48.0	49.6	50.4
135°	22.4	26.4	31.2	35.2	37.6	39.2	42.4	44.8	46.4	46.4
137.5°	20.0	23.2	26.4	29.6	32.0	33.6	36.0	37.6	39.2	39.2
140°	16.0	18.4	20.8	23.2	24.8	26.4	28.8	29.6	31.2	31.2
142.5°	12.0	13.6	16.0	17.6	18.4	20.0	21.6	23.2	24.0	24.0
145°	8.8	10.4	11.2	12.8	13.6	14.4	16.0	16.8	17.6	17.6
147.5°	6.4	7.2	8.0	9.6	9.6	10.4	12.0	12.8	12.8	12.8
150°	4.8	5.6	6.4	6.4	7.2	7.2	8.8	9.6	9.6	9.6
152.5°	4.0	4.0	4.8	4.8	5.6	5.6	6.4	7.2	7.2	7.2
155°	3.2	3.2	3.2	3.2	4.0	4.0	4.8	4.8	5.6	5.6
157.5°	2.4	2.4	2.4	2.4	2.4	2.4	3.2	3.2	4.0	4.0
160°	2.4	2.4	1.6	1.6	1.6	1.6	2.4	2.4	2.4	2.4
162.5°	2.4	1.6	1.6	1.6	0.8	1.6	1.6	1.6	1.6	1.6
165°	1.6	1.6	1.6	0.8	0.8	0.8	0.8	0.8	0.8	1.6
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: P236280

CATALOG NUMBER: 4SWLED-48HL-LC-UNV-L835-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)