

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: P236278

Luminaire Tested: **4SWLED-44HL-LC-UNV-L840-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236278
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-44HL-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

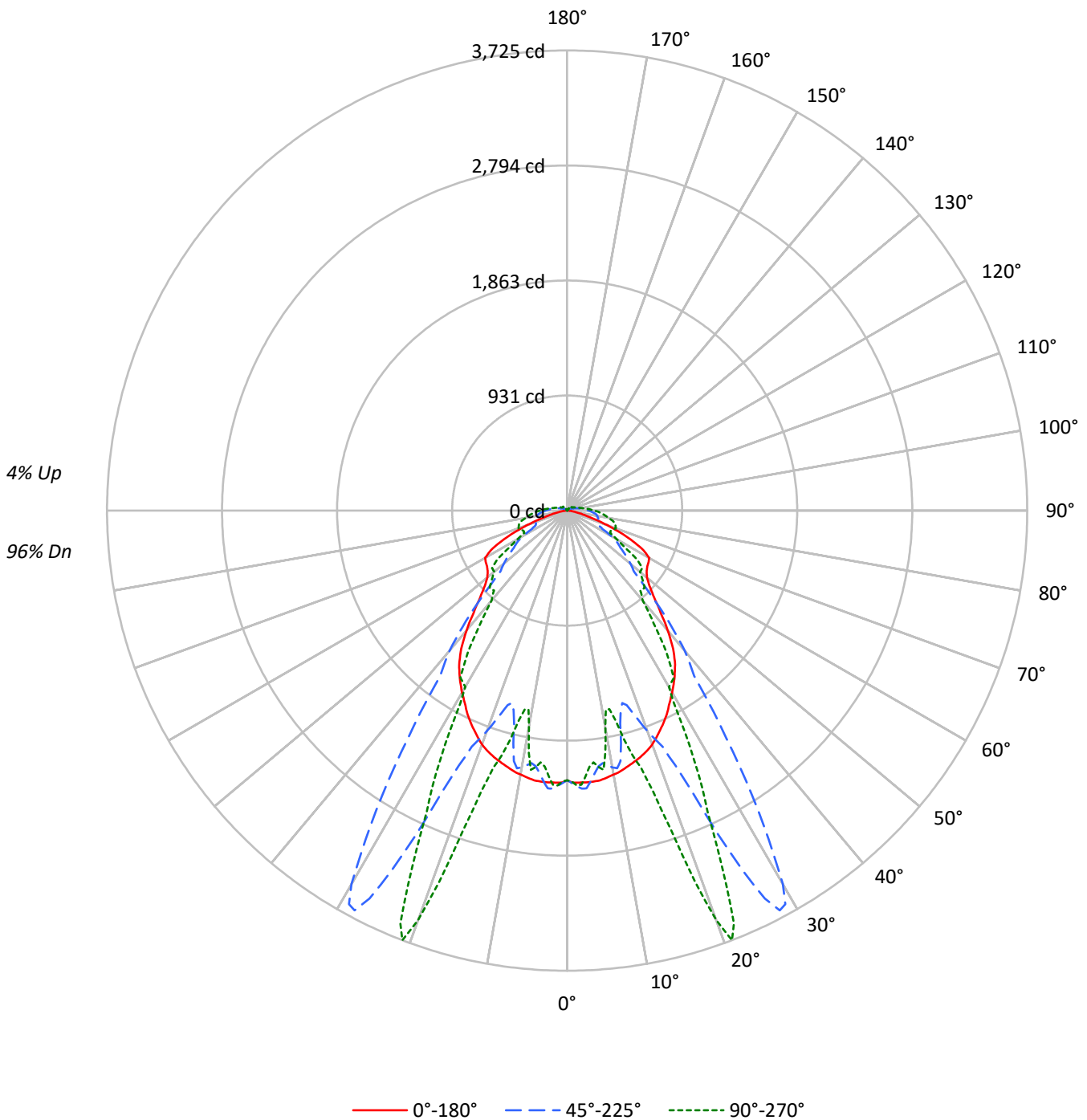
Lumens per Lamp: N/A
Luminaire Lumens: 5950.0 lumens
Efficiency: N/A
Efficacy: 149.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.15 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')
CIE Type: Direct

Input Watts (W): 39.7
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

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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°	15665	15665	15665
5°	15829	15436	14492
10°	15709	14610	12115
15°	15485	11498	13817
20°	15182	13073	23601
25°	14556	20055	18034
30°	13806	24643	11152
35°	13017	16235	9648
40°	11514	11072	6728
45°	9746	7305	6480
50°	9014	5509	5880
55°	9403	4618	5552
60°	10346	3919	3961
65°	9265	2907	3599
70°	6553	3056	4250
75°	3771	3408	4547
80°	2380	3769	4364
85°	1290	4032	4291



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.3	3.4
10°-20°	574.8	9.7
20°-30°	1132.6	19.0
30°-40°	1168.6	19.6
40°-50°	982.0	16.5
50°-60°	724.3	12.2
60°-70°	410.7	6.9
70°-80°	294.8	5.0
80°-90°	199.9	3.4
90°-100°	119.4	2.0
100°-110°	62.4	1.0
110°-120°	34.9	0.6
120°-130°	20.4	0.3
130°-140°	14.2	0.2
140°-150°	5.1	0.1
150°-160°	1.5	0.0
160°-170°	0.4	0.0
170°-180°	0.0	0.0
0°-30°	1911.7	32.1
0°-40°	3080.2	51.8
0°-60°	4786.5	80.4
0°-90°	5691.8	95.7
90°-120°	216.7	3.6
90°-150°	256.4	4.3
90°-180°	258.0	4.3
0°-180°	5950.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2183	2183	2183	2183	2183	
5°	2204	2237	2199	2096	2080	209
15°	2105	2014	1672	1883	2054	593
25°	1870	1669	2888	3243	2691	858
35°	1524	1877	2244	1521	1401	942
45°	995	2507	936	845	887	784
55°	791	1406	528	666	690	714
65°	588	565	282	345	389	570
75°	154	228	261	375	402	184
85°	22	95	217	266	284	28
90°	2	70	173	214	220	2
95°	1	55	135	157	164	1
105°	1	29	71	84	90	1
115°	2	13	39	55	62	1
125°	2	6	23	36	44	1
135°	2	3	17	35	43	1
145°	2	2	7	13	16	1
155°	2	2	3	4	5	1
165°	2	2	2	1	2	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2183.0	2183.0	2183.0	2183.0	2183.0	2183.0	2183.0	2183.0	2183.0	2183.0	2183.0
1°	2201.5	2200.0	2191.2	2186.7	2186.0	2184.5	2185.3	2186.7	2190.4	2190.4	2207.4
2°	2203.7	2203.0	2197.1	2194.1	2194.1	2194.1	2195.6	2200.0	2203.0	2203.7	2229.6
3°	2204.5	2205.2	2201.5	2199.3	2204.5	2204.5	2206.7	2212.6	2222.9	2226.6	2253.2
4°	2206.0	2208.9	2206.7	2206.0	2216.3	2223.7	2228.1	2236.3	2242.9	2243.6	2254.0
5°	2204.5	2208.2	2208.2	2217.0	2231.1	2237.0	2240.7	2245.9	2235.5	2207.4	2199.3
6°	2203.0	2208.9	2212.6	2228.9	2241.4	2246.6	2247.3	2224.4	2197.1	2164.6	2138.0
7°	2199.3	2205.2	2217.0	2238.5	2246.6	2245.9	2233.3	2186.0	2138.0	2096.6	2084.8
8°	2190.4	2199.3	2222.9	2240.7	2234.8	2211.9	2188.2	2136.5	2091.4	2061.8	2064.1
9°	2180.1	2189.7	2222.9	2235.5	2206.7	2174.2	2144.6	2080.3	2051.5	2047.1	2087.0
10°	2169.7	2185.3	2223.7	2224.4	2161.6	2128.4	2087.7	2044.1	2043.4	2067.8	2111.4
11°	2160.9	2179.3	2219.3	2202.3	2123.2	2086.2	2044.8	2032.3	2061.1	2088.4	2125.4
12°	2148.3	2173.4	2209.6	2172.7	2073.7	2038.2	2016.8	2040.4	2075.1	2100.3	2072.2
13°	2133.5	2161.6	2191.2	2128.4	2033.0	2008.6	2016.8	2055.9	2078.1	2063.3	1938.4
14°	2118.0	2154.2	2169.0	2089.2	1996.1	2002.0	2027.8	2058.9	2062.6	1934.7	1778.1
15°	2104.7	2144.6	2145.4	2045.6	1983.5	2013.8	2033.8	2048.5	1990.2	1810.6	1672.4
16°	2089.2	2134.3	2119.5	2014.5	1995.3	2023.4	2034.5	2021.9	1852.7	1677.6	1620.7
17°	2073.7	2119.5	2087.0	1987.2	2009.4	2024.9	2024.2	1945.1	1750.7	1618.4	1645.8
18°	2055.9	2101.0	2057.4	1968.0	2015.3	2016.0	1999.0	1854.9	1648.7	1606.6	1722.6
19°	2036.0	2079.6	2025.6	1956.2	2007.9	1991.6	1947.3	1754.4	1609.6	1651.7	1809.8
20°	2014.5	2055.2	1996.8	1957.6	1989.4	1953.2	1886.0	1676.1	1607.4	1724.1	1899.3
21°	1987.9	2026.4	1969.5	1965.0	1955.4	1891.9	1807.6	1630.3	1642.8	1791.4	1980.6
22°	1959.1	1996.1	1948.0	1965.0	1903.7	1832.8	1737.4	1611.8	1703.4	1861.6	2061.1
23°	1928.1	1968.0	1928.1	1955.4	1840.1	1767.0	1680.5	1628.0	1747.0	1930.3	2242.2
24°	1900.0	1936.2	1914.8	1932.5	1783.2	1711.6	1645.0	1663.5	1787.7	2007.9	2494.9
25°	1869.7	1905.9	1903.0	1895.6	1731.5	1668.7	1637.7	1692.3	1841.6	2197.8	2888.1
26°	1836.4	1873.4	1891.9	1841.6	1692.3	1646.5	1648.0	1713.8	1914.0	2436.5	3242.0
27°	1801.0	1843.1	1870.4	1782.5	1665.0	1644.3	1669.4	1729.3	2081.8	2810.5	3524.3
28°	1765.5	1808.4	1840.1	1723.4	1648.7	1659.1	1678.3	1762.5	2296.1	3131.9	3665.5
29°	1731.5	1775.8	1806.1	1677.6	1646.5	1677.6	1676.8	1860.8	2629.4	3409.1	3643.3
30°	1701.2	1743.3	1767.0	1647.3	1658.3	1679.8	1676.1	2023.4	2913.9	3551.0	3490.4
32.5°	1615.5	1648.7	1649.5	1619.9	1677.6	1673.9	1806.1	2674.5	3389.8	3410.5	2878.5
35°	1523.8	1534.2	1549.0	1639.1	1690.1	1877.1	2318.3	3098.7	3360.3	2835.6	2243.6
37.5°	1410.0	1408.6	1508.3	1653.2	1940.6	2373.0	2725.5	3165.9	2877.7	2195.6	1689.4
40°	1266.7	1282.9	1500.9	1708.6	2346.4	2585.8	2761.7	2967.1	2231.1	1692.3	1480.2
42.5°	1120.3	1194.2	1500.9	1935.5	2425.4	2557.7	2736.6	2477.9	1767.0	1443.3	1210.5
45°	995.4	1147.7	1512.0	2123.2	2347.8	2506.7	2534.8	1978.3	1464.7	1117.4	936.3
47.5°	903.1	1104.1	1608.1	2050.0	2266.6	2305.0	2199.3	1651.0	1093.0	821.0	733.8
50°	842.5	1052.4	1649.5	1905.9	2098.1	2050.0	1894.1	1217.9	754.5	664.4	670.3
52.5°	810.7	1041.3	1536.4	1771.4	1885.2	1781.8	1493.5	824.0	608.2	594.9	598.6
55°	790.7	1008.0	1370.9	1587.4	1618.4	1406.3	1102.6	620.0	520.3	512.9	527.7
57.5°	781.1	913.4	1207.5	1345.7	1271.1	1082.7	837.3	473.0	423.5	438.2	482.6
60°	766.4	814.4	969.6	1058.3	1012.4	857.3	634.8	376.2	368.0	395.4	415.3
62.5°	696.9	699.1	678.4	835.8	828.4	695.4	501.8	322.2	308.2	316.3	320.7
65°	588.3	542.4	469.3	687.3	683.6	564.6	399.8	255.7	249.0	267.5	281.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
67.5°	467.1	390.9	351.8	549.8	543.2	447.1	320.0	220.2	232.8	252.0	272.7
70°	343.6	287.5	277.1	433.1	427.9	358.4	268.3	204.0	224.7	244.6	266.0
72.5°	234.3	212.8	218.0	326.6	334.8	286.7	227.6	193.6	212.1	235.0	267.5
75°	154.5	155.9	167.8	240.2	256.4	227.6	192.1	180.3	200.3	227.6	260.9
77.5°	105.7	110.9	124.9	172.2	191.4	177.4	163.3	166.3	187.7	219.5	254.2
80°	69.5	74.6	89.4	121.9	141.9	141.2	140.4	154.5	178.8	212.8	246.8
82.5°	42.1	47.3	61.3	86.5	107.2	113.8	122.7	143.4	172.9	210.6	238.0
85°	22.2	27.3	40.6	62.1	83.5	95.3	107.9	134.5	170.0	202.5	217.3
87.5°	8.9	14.0	26.6	45.1	68.0	81.3	96.1	127.8	164.8	186.2	194.4
90°	1.5	6.7	17.0	34.0	56.2	69.5	85.7	122.7	153.0	162.6	172.9
92.5°	0.7	3.7	11.8	25.9	47.3	61.3	78.3	113.8	133.8	143.4	153.0
95°	0.7	2.2	8.9	20.7	40.6	55.4	71.7	99.8	114.5	124.2	135.2
97.5°	0.7	2.2	6.7	17.0	37.0	50.3	64.3	84.2	96.8	107.9	117.5
100°	0.7	1.5	5.9	14.8	32.5	42.9	53.2	68.7	79.8	91.6	100.5
102.5°	0.7	1.5	5.2	13.3	28.1	36.2	43.6	55.4	67.3	76.9	85.7
105°	0.7	1.5	4.4	11.8	22.9	28.8	34.7	45.8	56.2	65.0	70.9
107.5°	0.7	1.5	3.7	9.6	18.5	23.6	28.8	38.4	47.3	53.9	59.9
110°	0.7	0.7	3.0	8.1	15.5	20.0	23.6	31.8	39.2	45.8	51.0
112.5°	1.5	1.5	3.0	6.7	12.6	16.3	20.0	26.6	33.3	39.2	44.3
115°	1.5	1.5	2.2	5.2	10.3	13.3	16.3	22.2	28.1	34.0	39.2
117.5°	1.5	1.5	2.2	4.4	8.1	11.1	13.3	18.5	23.6	29.6	34.7
120°	1.5	1.5	1.5	3.7	7.4	8.9	11.1	15.5	20.7	25.9	30.3
122.5°	1.5	1.5	1.5	3.0	5.9	7.4	8.9	13.3	17.7	22.2	26.6
125°	1.5	1.5	1.5	2.2	4.4	5.9	7.4	11.1	14.8	19.2	22.9
127.5°	1.5	1.5	1.5	2.2	3.7	5.2	5.9	8.9	12.6	15.5	20.0
130°	1.5	1.5	1.5	1.5	3.0	3.7	5.2	7.4	10.3	14.0	17.7
132.5°	1.5	1.5	1.5	1.5	3.0	3.7	4.4	6.7	10.3	13.3	17.0
135°	1.5	1.5	1.5	1.5	2.2	3.0	4.4	6.7	9.6	13.3	17.0
137.5°	1.5	1.5	1.5	1.5	2.2	3.0	3.7	5.9	8.9	12.6	15.5
140°	1.5	1.5	1.5	1.5	1.5	2.2	3.0	5.2	7.4	9.6	12.6
142.5°	1.5	1.5	1.5	1.5	1.5	1.5	2.2	3.7	5.2	7.4	9.6
145°	1.5	1.5	1.5	1.5	1.5	1.5	2.2	3.0	3.7	5.2	6.7
147.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.2	3.0	3.7	5.2
150°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.2	2.2	3.0	3.7
152.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.0	3.0
155°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.0
157.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
160°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
162.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
165°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2183.0	2183.0	2183.0	2183.0	2183.0	2183.0	2183.0	2183.0	2183.0	2183.0
1°	2213.3	2210.4	2208.2	2205.2	2202.3	2201.5	2200.0	2199.3	2193.4	2194.1
2°	2234.8	2237.0	2235.5	2232.6	2234.8	2231.8	2230.3	2227.4	2225.2	2225.9
3°	2260.6	2259.9	2253.2	2245.1	2239.9	2239.9	2228.9	2224.4	2211.1	2222.9
4°	2237.7	2222.2	2197.1	2185.3	2174.2	2172.7	2159.4	2146.8	2140.2	2152.0
5°	2175.7	2152.7	2121.0	2108.4	2095.8	2097.3	2086.2	2078.1	2072.9	2080.3
6°	2113.6	2092.9	2070.7	2057.4	2052.2	2048.5	2047.1	2049.3	2050.8	2050.0
7°	2070.0	2065.5	2063.3	2069.2	2074.4	2074.4	2083.3	2090.7	2092.9	2091.4
8°	2078.1	2092.9	2102.5	2106.2	2106.9	2108.4	2122.4	2122.4	2118.0	2119.5
9°	2111.4	2121.7	2132.1	2118.7	2092.9	2087.7	2038.9	2010.1	1969.5	1981.3
10°	2137.2	2118.0	2038.2	1972.4	1928.1	1913.3	1839.4	1806.9	1764.8	1776.6
11°	2092.9	1989.4	1869.0	1786.9	1744.8	1720.4	1672.4	1652.4	1644.3	1642.1
12°	1928.1	1807.6	1699.7	1652.4	1633.2	1625.8	1620.7	1626.6	1639.9	1643.6
13°	1778.1	1678.3	1628.8	1632.5	1642.1	1653.9	1695.3	1719.7	1743.3	1744.1
14°	1656.9	1626.6	1666.5	1716.7	1745.5	1764.0	1821.7	1861.6	1905.2	1913.3
15°	1625.1	1675.3	1769.9	1846.8	1883.0	1922.2	1998.3	2030.8	2055.2	2053.7
16°	1679.8	1766.2	1897.8	1987.9	2024.9	2050.8	2099.5	2129.1	2157.9	2162.4
17°	1771.4	1903.7	2024.9	2094.4	2121.0	2150.5	2240.7	2302.8	2355.2	2372.2
18°	1867.5	2006.4	2102.5	2214.8	2285.0	2342.7	2468.3	2582.8	2693.0	2713.7
19°	1974.6	2095.8	2256.2	2449.1	2535.6	2664.9	2888.8	3028.5	3140.1	3176.3
20°	2044.8	2236.3	2485.3	2848.2	2970.1	3113.5	3327.8	3434.2	3511.0	3528.0
21°	2168.3	2482.3	2910.2	3268.7	3392.1	3471.9	3613.8	3681.0	3700.2	3725.4
22°	2373.0	2872.5	3312.3	3573.1	3655.9	3701.7	3717.2	3667.0	3621.9	3604.2
23°	2748.4	3256.8	3578.3	3723.1	3715.0	3658.8	3532.5	3413.5	3335.9	3303.4
24°	3156.3	3552.4	3711.3	3588.6	3518.4	3398.7	3237.6	3117.9	3035.1	2995.2
25°	3444.5	3698.8	3564.3	3332.2	3242.8	3118.6	2923.5	2809.0	2727.7	2690.7
26°	3660.3	3627.8	3315.9	3049.9	2945.0	2825.2	2653.8	2589.5	2529.6	2494.2
27°	3680.3	3416.5	3052.1	2758.7	2664.9	2579.9	2451.3	2358.9	2296.1	2262.9
28°	3519.9	3169.6	2771.3	2536.3	2460.2	2356.7	2211.1	2120.2	2075.9	2025.6
29°	3315.2	2886.6	2537.8	2293.2	2210.4	2106.2	1961.3	1841.6	1812.8	1781.8
30°	3040.3	2628.7	2305.7	2033.0	1953.9	1841.6	1730.8	1691.6	1672.4	1648.0
32.5°	2393.7	1980.6	1711.6	1608.1	1584.4	1574.1	1614.7	1621.4	1619.9	1606.6
35°	1791.4	1566.0	1556.4	1540.8	1520.9	1501.7	1464.0	1442.6	1424.1	1401.2
37.5°	1529.8	1466.9	1379.0	1302.9	1268.9	1243.0	1203.9	1182.4	1164.7	1151.4
40°	1340.6	1211.2	1123.3	1070.1	1051.6	1021.3	996.9	983.6	970.3	952.6
42.5°	1081.9	966.6	897.2	859.5	848.4	836.6	846.2	861.7	869.1	877.2
45°	832.9	780.4	796.7	831.4	845.4	860.2	881.6	886.1	887.6	886.8
47.5°	725.7	763.4	782.6	793.7	791.5	797.4	815.1	827.0	834.3	827.7
50°	689.5	694.7	721.3	748.6	753.1	745.7	749.4	759.0	769.3	770.8
52.5°	623.7	645.9	666.6	685.1	701.3	717.6	744.2	757.5	765.6	765.6
55°	560.2	600.8	629.6	655.5	665.9	670.3	683.6	688.8	693.9	690.2
57.5°	520.3	539.5	558.7	555.0	546.9	535.0	542.4	551.3	555.0	552.8
60°	420.5	421.2	423.5	429.4	439.0	447.8	456.7	458.9	462.6	461.9
62.5°	332.6	339.9	351.8	371.0	376.2	376.2	385.0	391.7	393.9	390.9
65°	298.6	313.3	334.0	345.1	345.1	347.3	363.6	382.8	390.2	388.7



TEST NUMBER: P236278

CATALOG NUMBER: 4SWLED-44HL-LC-UNV-L840-CD1-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
67.5°	291.9	317.8	328.1	343.6	355.5	367.3	383.5	394.6	401.3	403.5
70°	296.3	315.6	336.3	357.7	367.3	377.6	396.8	412.4	418.3	419.0
72.5°	295.6	320.7	341.4	367.3	378.4	388.0	402.0	407.9	410.2	410.2
75°	293.4	318.5	347.3	365.8	374.7	384.3	392.4	396.8	400.5	402.0
77.5°	283.8	311.1	325.2	342.2	348.1	352.5	362.9	370.2	375.4	376.2
80°	272.0	284.5	294.9	308.9	313.3	320.0	330.3	334.8	338.5	338.5
82.5°	249.0	257.9	269.0	283.8	291.9	298.6	306.7	309.6	311.9	312.6
85°	224.7	233.5	247.6	260.1	266.0	272.0	279.3	283.8	285.3	283.8
87.5°	202.5	215.1	228.4	238.0	240.2	243.1	249.0	252.7	254.2	255.7
90°	182.5	195.1	205.4	213.6	213.6	216.5	219.5	220.2	218.7	220.2
92.5°	164.8	172.9	178.8	182.5	182.5	184.8	188.4	189.9	189.2	189.9
95°	143.4	149.3	152.2	154.5	156.7	159.6	162.6	163.3	163.3	164.1
97.5°	124.2	128.6	131.5	133.8	134.5	136.7	136.7	137.5	137.5	138.2
100°	107.2	111.6	112.3	111.6	112.3	113.1	113.8	115.3	116.0	116.8
102.5°	90.9	94.6	96.1	96.8	97.5	99.0	100.5	101.2	102.7	102.7
105°	75.4	79.8	82.8	84.2	84.2	85.7	87.2	88.7	89.4	90.2
107.5°	64.3	68.7	72.4	73.9	75.4	76.1	77.6	79.1	79.8	80.6
110°	55.4	59.9	64.3	67.3	68.0	69.5	70.9	72.4	73.2	73.9
112.5°	49.5	53.2	56.9	59.9	61.3	62.8	64.3	65.8	67.3	67.3
115°	43.6	48.0	51.0	53.9	55.4	56.2	58.4	60.6	61.3	62.1
117.5°	39.2	42.9	45.8	48.8	50.3	51.7	53.2	54.7	56.2	56.2
120°	34.7	38.4	41.4	43.6	45.1	45.8	48.0	49.5	50.3	51.0
122.5°	30.3	34.0	36.2	39.2	39.9	41.4	43.6	45.1	45.8	46.6
125°	26.6	29.6	32.5	35.5	36.2	37.7	40.6	42.1	43.6	44.3
127.5°	23.6	26.6	30.3	33.3	34.7	37.0	39.9	42.1	43.6	44.3
130°	21.4	25.9	29.6	33.3	35.5	37.0	40.6	43.6	45.1	45.1
132.5°	21.4	25.9	30.3	34.0	36.2	37.7	41.4	44.3	45.8	46.6
135°	20.7	24.4	28.8	32.5	34.7	36.2	39.2	41.4	42.9	42.9
137.5°	18.5	21.4	24.4	27.3	29.6	31.0	33.3	34.7	36.2	36.2
140°	14.8	17.0	19.2	21.4	22.9	24.4	26.6	27.3	28.8	28.8
142.5°	11.1	12.6	14.8	16.3	17.0	18.5	20.0	21.4	22.2	22.2
145°	8.1	9.6	10.3	11.8	12.6	13.3	14.8	15.5	16.3	16.3
147.5°	5.9	6.7	7.4	8.9	8.9	9.6	11.1	11.8	11.8	11.8
150°	4.4	5.2	5.9	5.9	6.7	6.7	8.1	8.9	8.9	8.9
152.5°	3.7	3.7	4.4	4.4	5.2	5.2	5.9	6.7	6.7	6.7
155°	3.0	3.0	3.0	3.0	3.7	3.7	4.4	4.4	5.2	5.2
157.5°	2.2	2.2	2.2	2.2	2.2	2.2	3.0	3.0	3.7	3.7
160°	2.2	2.2	1.5	1.5	1.5	1.5	2.2	2.2	2.2	2.2
162.5°	2.2	1.5	1.5	1.5	0.7	1.5	1.5	1.5	1.5	1.5
165°	1.5	1.5	1.5	0.7	0.7	0.7	0.7	0.7	0.7	1.5
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: P236278

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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)