

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: P189290

Luminaire Tested: **4SWLED-LD4-44HL-LC-UNV-L840-CD2-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P189290
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-LD4-44HL-LC-UNV-L840-CD2-U
Description: [LUMINAIRE]METALUX LED STAIRWELL WITH NARROW CLEAR LENS

Light Source: EATON LED 4000K
Ballast/Driver: ELECTRONIC DRIVER

Summary

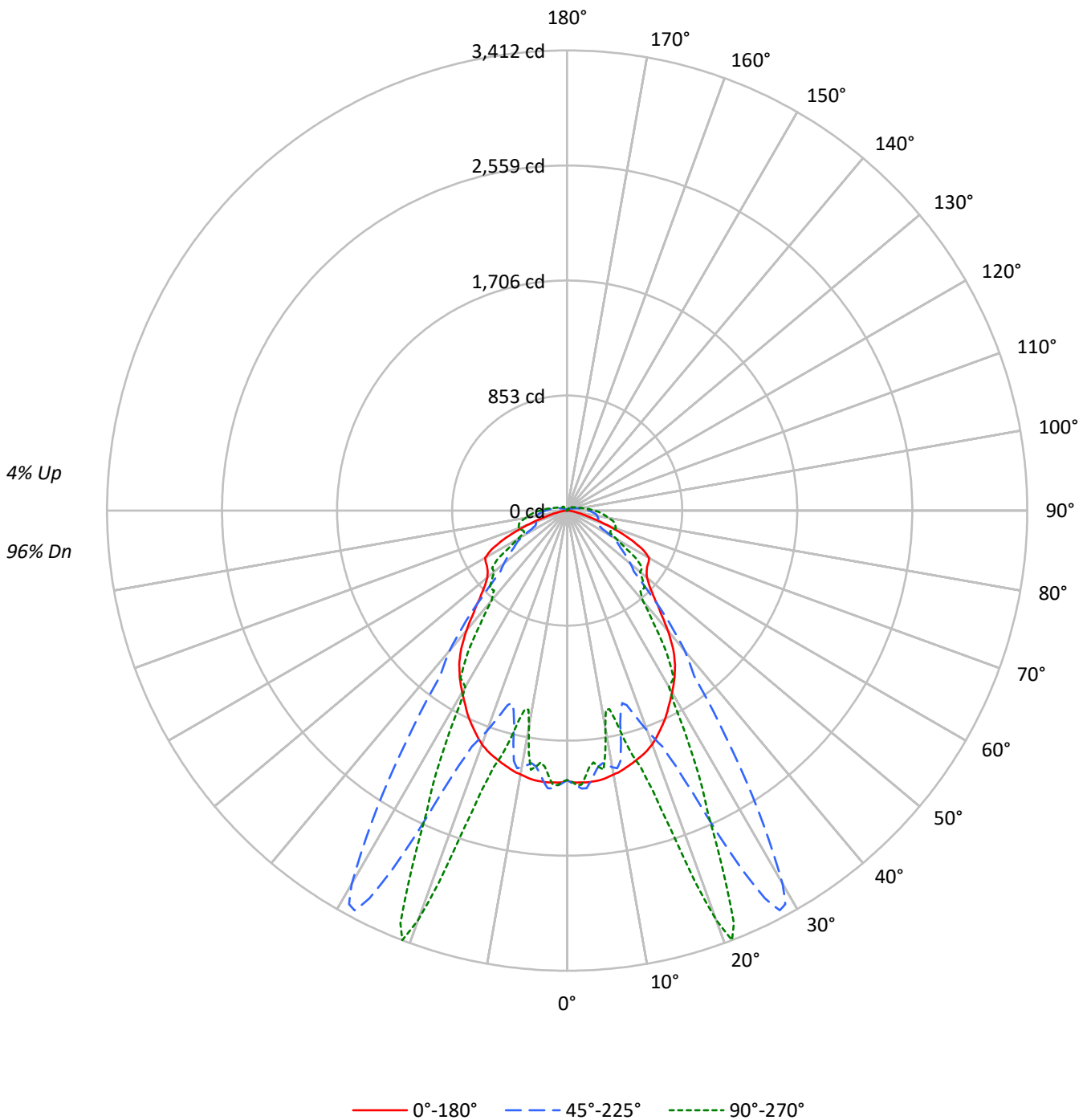
Lumens per Lamp: N/A
Luminaire Lumens: 5448.7 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.15 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.75' x H: 0.17')
CIE Type: Direct

Input Watts (W): 39.2
Input Voltage (V): NR
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	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°	15302	15302	15302
5°	15451	15020	14090
10°	15323	14165	11726
15°	15094	11107	13317
20°	14788	12583	22652
25°	14167	19235	17238
30°	13425	23550	10615
35°	12646	15457	9144
40°	11173	10499	6348
45°	9448	6897	6086
50°	8725	5176	5495
55°	9086	4317	5160
60°	9976	3641	3659
65°	8908	2681	3301
70°	6276	2796	3866
75°	3587	3085	4096
80°	2239	3365	3881
85°	1182	3530	3754



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.1	3.4
10°-20°	526.4	9.7
20°-30°	1037.1	19.0
30°-40°	1070.1	19.6
40°-50°	899.2	16.5
50°-60°	663.2	12.2
60°-70°	376.1	6.9
70°-80°	270.0	5.0
80°-90°	183.0	3.4
90°-100°	109.3	2.0
100°-110°	57.1	1.0
110°-120°	32.0	0.6
120°-130°	18.7	0.3
130°-140°	13.0	0.2
140°-150°	4.7	0.1
150°-160°	1.3	0.0
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-30°	1750.6	32.1
0°-40°	2820.7	51.8
0°-60°	4383.2	80.4
0°-90°	5212.2	95.7
90°-120°	198.4	3.6
90°-150°	234.8	4.3
90°-180°	236.0	4.3
0°-180°	5448.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1999	1999	1999	1999	1999	
5°	2019	2048	2014	1919	1905	192
15°	1927	1844	1532	1724	1881	543
25°	1712	1528	2645	2970	2464	786
35°	1396	1719	2055	1393	1283	863
45°	912	2296	857	774	812	718
55°	724	1288	483	610	632	654
65°	539	517	258	316	356	522
75°	141	208	239	343	368	169
85°	20	87	199	244	260	26
90°	1	64	158	196	202	2
95°	1	51	124	144	150	1
105°	1	26	65	77	83	1
115°	1	12	36	51	57	1
125°	1	5	21	33	41	1
135°	1	3	16	32	39	1
145°	1	1	6	12	15	1
155°	2	2	3	3	5	1
165°	2	2	2	1	1	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°	1999.1	1999.1	1999.1	1999.1	1999.1	1999.1	1999.1	1999.1	1999.1	1999.1	1999.1
1°	2016.0	2014.7	2006.6	2002.5	2001.8	2000.5	2001.1	2002.5	2005.9	2005.9	2021.5
2°	2018.1	2017.4	2012.0	2009.3	2009.3	2009.3	2010.6	2014.7	2017.4	2018.1	2041.8
3°	2018.7	2019.4	2016.0	2014.0	2018.7	2018.7	2020.8	2026.2	2035.7	2039.0	2063.4
4°	2020.1	2022.8	2020.8	2020.1	2029.6	2036.3	2040.4	2047.8	2053.9	2054.6	2064.1
5°	2018.7	2022.1	2022.1	2030.2	2043.1	2048.5	2051.9	2056.6	2047.2	2021.5	2014.0
6°	2017.4	2022.8	2026.2	2041.1	2052.6	2057.3	2058.0	2037.0	2012.0	1982.2	1957.8
7°	2014.0	2019.4	2030.2	2049.9	2057.3	2056.6	2045.1	2001.8	1957.8	1919.9	1909.1
8°	2005.9	2014.0	2035.7	2051.9	2046.5	2025.5	2003.9	1956.5	1915.2	1888.1	1890.2
9°	1996.4	2005.2	2035.7	2047.2	2020.8	1991.0	1963.9	1905.1	1878.7	1874.6	1911.1
10°	1986.9	2001.1	2036.3	2037.0	1979.5	1949.0	1911.8	1871.9	1871.2	1893.5	1933.5
11°	1978.8	1995.7	2032.3	2016.7	1944.3	1910.5	1872.6	1861.1	1887.5	1912.5	1946.3
12°	1967.3	1990.3	2023.5	1989.6	1899.0	1866.5	1846.9	1868.5	1900.3	1923.3	1897.6
13°	1953.8	1979.5	2006.6	1949.0	1861.7	1839.4	1846.9	1882.7	1903.0	1889.5	1775.1
14°	1939.6	1972.7	1986.3	1913.2	1827.9	1833.3	1857.0	1885.4	1888.8	1771.7	1628.3
15°	1927.4	1963.9	1964.6	1873.2	1816.4	1844.1	1862.4	1876.0	1822.5	1658.0	1531.5
16°	1913.2	1954.5	1940.9	1844.8	1827.2	1852.9	1863.1	1851.6	1696.6	1536.2	1484.1
17°	1899.0	1940.9	1911.1	1819.8	1840.1	1854.3	1853.6	1781.2	1603.2	1482.1	1507.1
18°	1882.7	1924.0	1884.1	1802.2	1845.5	1846.2	1830.6	1698.6	1509.8	1471.3	1577.5
19°	1864.4	1904.4	1855.0	1791.4	1838.7	1823.8	1783.2	1606.6	1474.0	1512.5	1657.4
20°	1844.8	1882.0	1828.6	1792.7	1821.8	1788.6	1727.1	1534.9	1471.9	1578.9	1739.2
21°	1820.5	1855.6	1803.5	1799.5	1790.7	1732.5	1655.3	1492.9	1504.4	1640.4	1813.7
22°	1794.1	1827.9	1783.9	1799.5	1743.3	1678.3	1591.0	1476.0	1559.9	1704.7	1887.5
23°	1765.6	1802.2	1765.6	1790.7	1685.1	1618.1	1538.9	1490.9	1599.8	1767.7	2053.3
24°	1739.9	1773.1	1753.5	1769.7	1633.0	1567.4	1506.4	1523.4	1637.1	1838.7	2284.7
25°	1712.2	1745.3	1742.6	1735.9	1585.6	1528.1	1499.7	1549.8	1686.5	2012.7	2644.7
26°	1681.7	1715.6	1732.5	1686.5	1549.8	1507.8	1509.2	1569.4	1752.8	2231.2	2968.9
27°	1649.2	1687.8	1712.9	1632.3	1524.7	1505.8	1528.8	1583.6	1906.4	2573.7	3227.4
28°	1616.8	1656.0	1685.1	1578.2	1509.8	1519.3	1536.9	1614.0	2102.7	2868.1	3356.7
29°	1585.6	1626.2	1654.0	1536.2	1507.8	1536.2	1535.5	1704.1	2407.9	3121.8	3336.4
30°	1557.9	1596.5	1618.1	1508.5	1518.6	1538.3	1534.9	1852.9	2668.4	3251.8	3196.3
32.5°	1479.4	1509.8	1510.5	1483.4	1536.2	1532.8	1654.0	2449.2	3104.3	3123.2	2635.9
35°	1395.5	1404.9	1418.5	1501.0	1547.7	1718.9	2123.0	2837.6	3077.2	2596.7	2054.6
37.5°	1291.2	1289.9	1381.2	1513.9	1777.1	2173.0	2495.9	2899.2	2635.3	2010.6	1547.1
40°	1159.9	1174.8	1374.5	1564.6	2148.7	2367.9	2529.0	2717.2	2043.1	1549.8	1355.5
42.5°	1026.0	1093.6	1374.5	1772.4	2221.1	2342.2	2506.0	2269.1	1618.1	1321.7	1108.5
45°	911.6	1051.0	1384.6	1944.3	2150.0	2295.5	2321.3	1811.7	1341.3	1023.2	857.4
47.5°	827.0	1011.1	1472.6	1877.3	2075.6	2110.8	2014.0	1511.9	1000.9	751.9	672.0
50°	771.5	963.7	1510.5	1745.3	1921.3	1877.3	1734.5	1115.3	691.0	608.4	613.8
52.5°	742.4	953.5	1407.0	1622.2	1726.4	1631.6	1367.7	754.6	557.0	544.8	548.2
55°	724.1	923.1	1255.4	1453.7	1482.1	1287.9	1009.7	567.8	476.4	469.7	483.2
57.5°	715.3	836.5	1105.8	1232.4	1164.0	991.4	766.8	433.1	387.8	401.3	441.9
60°	701.8	745.8	887.9	969.1	927.1	785.0	581.3	344.5	337.0	362.1	380.3
62.5°	638.2	640.2	621.3	765.4	758.6	636.8	459.5	295.1	282.2	289.6	293.7
65°	538.7	496.7	429.7	629.4	626.0	517.0	366.1	234.2	228.1	245.0	257.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
67.5°	427.7	358.0	322.1	503.5	497.4	409.4	293.0	201.7	213.2	230.8	249.7
70°	314.7	263.3	253.8	396.6	391.8	328.2	245.7	186.8	205.7	224.0	243.6
72.5°	214.5	194.9	199.6	299.1	306.6	262.6	208.4	177.3	194.2	215.2	245.0
75°	141.4	142.8	153.6	219.9	234.8	208.4	176.0	165.1	183.4	208.4	238.9
77.5°	96.8	101.5	114.4	157.7	175.3	162.4	149.6	152.3	171.9	201.0	232.8
80°	63.6	68.4	81.9	111.7	129.9	129.3	128.6	141.4	163.8	194.9	226.0
82.5°	38.6	43.3	56.2	79.2	98.1	104.2	112.3	131.3	158.4	192.9	217.9
85°	20.3	25.0	37.2	56.8	76.5	87.3	98.8	123.2	155.7	185.4	199.0
87.5°	8.1	12.9	24.4	41.3	62.3	74.4	88.0	117.1	150.9	170.5	178.0
90°	1.4	6.1	15.6	31.1	51.4	63.6	78.5	112.3	140.1	148.9	158.4
92.5°	0.7	3.4	10.8	23.7	43.3	56.2	71.7	104.2	122.5	131.3	140.1
95°	0.7	2.0	8.1	18.9	37.2	50.8	65.6	91.4	104.9	113.7	123.8
97.5°	0.7	2.0	6.1	15.6	33.8	46.0	58.9	77.1	88.7	98.8	107.6
100°	0.7	1.4	5.4	13.5	29.8	39.3	48.7	62.9	73.1	83.9	92.0
102.5°	0.7	1.4	4.7	12.2	25.7	33.2	39.9	50.8	61.6	70.4	78.5
105°	0.7	1.4	4.1	10.8	21.0	26.4	31.8	42.0	51.4	59.6	65.0
107.5°	0.7	1.4	3.4	8.8	16.9	21.7	26.4	35.2	43.3	49.4	54.8
110°	0.7	0.7	2.7	7.4	14.2	18.3	21.7	29.1	35.9	42.0	46.7
112.5°	1.4	1.4	2.7	6.1	11.5	14.9	18.3	24.4	30.5	35.9	40.6
115°	1.4	1.4	2.0	4.7	9.5	12.2	14.9	20.3	25.7	31.1	35.9
117.5°	1.4	1.4	2.0	4.1	7.4	10.2	12.2	16.9	21.7	27.1	31.8
120°	1.4	1.4	1.4	3.4	6.8	8.1	10.2	14.2	18.9	23.7	27.7
122.5°	1.4	1.4	1.4	2.7	5.4	6.8	8.1	12.2	16.2	20.3	24.4
125°	1.4	1.4	1.4	2.0	4.1	5.4	6.8	10.2	13.5	17.6	21.0
127.5°	1.4	1.4	1.4	2.0	3.4	4.7	5.4	8.1	11.5	14.2	18.3
130°	1.4	1.4	1.4	1.4	2.7	3.4	4.7	6.8	9.5	12.9	16.2
132.5°	1.4	1.4	1.4	1.4	2.7	3.4	4.1	6.1	9.5	12.2	15.6
135°	1.4	1.4	1.4	1.4	2.0	2.7	4.1	6.1	8.8	12.2	15.6
137.5°	1.4	1.4	1.4	1.4	2.0	2.7	3.4	5.4	8.1	11.5	14.2
140°	1.4	1.4	1.4	1.4	1.4	2.0	2.7	4.7	6.8	8.8	11.5
142.5°	1.4	1.4	1.4	1.4	1.4	1.4	2.0	3.4	4.7	6.8	8.8
145°	1.4	1.4	1.4	1.4	1.4	1.4	2.0	2.7	3.4	4.7	6.1
147.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.0	2.7	3.4	4.7
150°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.0	2.0	2.7	3.4
152.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.7	2.7
155°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.7
157.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
160°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
162.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
165°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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



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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°	1999.1	1999.1	1999.1	1999.1	1999.1	1999.1	1999.1	1999.1	1999.1	1999.1
1°	2026.9	2024.2	2022.1	2019.4	2016.7	2016.0	2014.7	2014.0	2008.6	2009.3
2°	2046.5	2048.5	2047.2	2044.5	2046.5	2043.8	2042.4	2039.7	2037.7	2038.4
3°	2070.2	2069.5	2063.4	2056.0	2051.2	2051.2	2041.1	2037.0	2024.8	2035.7
4°	2049.2	2035.0	2012.0	2001.1	1991.0	1989.6	1977.5	1966.0	1959.9	1970.7
5°	1992.4	1971.4	1942.3	1930.8	1919.3	1920.6	1910.5	1903.0	1898.3	1905.1
6°	1935.5	1916.6	1896.3	1884.1	1879.3	1876.0	1874.6	1876.6	1878.0	1877.3
7°	1895.6	1891.5	1889.5	1894.9	1899.6	1899.6	1907.8	1914.5	1916.6	1915.2
8°	1903.0	1916.6	1925.4	1928.7	1929.4	1930.8	1943.6	1943.6	1939.6	1940.9
9°	1933.5	1942.9	1952.4	1940.2	1916.6	1911.8	1867.2	1840.8	1803.5	1814.4
10°	1957.2	1939.6	1866.5	1806.2	1765.6	1752.1	1684.4	1654.7	1616.1	1626.9
11°	1916.6	1821.8	1711.5	1636.4	1597.8	1575.5	1531.5	1513.2	1505.8	1503.7
12°	1765.6	1655.3	1556.5	1513.2	1495.6	1488.8	1484.1	1489.5	1501.7	1505.1
13°	1628.3	1536.9	1491.6	1494.9	1503.7	1514.6	1552.5	1574.8	1596.5	1597.1
14°	1517.3	1489.5	1526.1	1572.1	1598.5	1615.4	1668.2	1704.7	1744.7	1752.1
15°	1488.2	1534.2	1620.8	1691.2	1724.4	1760.2	1829.9	1859.7	1882.0	1880.7
16°	1538.3	1617.4	1737.9	1820.5	1854.3	1878.0	1922.6	1949.7	1976.1	1980.2
17°	1622.2	1743.3	1854.3	1917.9	1942.3	1969.3	2051.9	2108.8	2156.8	2172.4
18°	1710.1	1837.4	1925.4	2028.2	2092.5	2145.3	2260.3	2365.2	2466.1	2485.0
19°	1808.3	1919.3	2066.1	2242.7	2321.9	2440.4	2645.4	2773.3	2875.5	2908.7
20°	1872.6	2047.8	2275.9	2608.2	2719.9	2851.1	3047.4	3144.9	3215.2	3230.8
21°	1985.6	2273.2	2665.0	2993.3	3106.3	3179.4	3309.3	3370.9	3388.5	3411.5
22°	2173.0	2630.5	3033.2	3272.1	3347.9	3389.8	3404.1	3358.0	3316.8	3300.5
23°	2516.8	2982.4	3276.8	3409.5	3402.0	3350.6	3234.9	3125.9	3054.8	3025.1
24°	2890.4	3253.1	3398.6	3286.3	3222.0	3112.4	2964.8	2855.2	2779.4	2742.9
25°	3154.3	3387.1	3264.0	3051.5	2969.6	2855.9	2677.2	2572.3	2497.9	2464.0
26°	3351.9	3322.2	3036.6	2792.9	2696.8	2587.2	2430.2	2371.3	2316.5	2284.0
27°	3370.2	3128.6	2795.0	2526.3	2440.4	2362.5	2244.8	2160.2	2102.7	2072.2
28°	3223.4	2902.6	2537.8	2322.6	2252.9	2158.2	2024.8	1941.6	1901.0	1855.0
29°	3035.9	2643.4	2324.0	2100.0	2024.2	1928.7	1796.1	1686.5	1660.1	1631.6
30°	2784.1	2407.2	2111.5	1861.7	1789.3	1686.5	1584.9	1549.1	1531.5	1509.2
32.5°	2192.0	1813.7	1567.4	1472.6	1451.0	1441.5	1478.7	1484.8	1483.4	1471.3
35°	1640.4	1434.0	1425.2	1411.0	1392.8	1375.2	1340.6	1321.0	1304.1	1283.1
37.5°	1400.9	1343.3	1262.8	1193.1	1162.0	1138.3	1102.4	1082.8	1066.6	1054.4
40°	1227.6	1109.2	1028.7	979.9	963.0	935.3	912.9	900.8	888.6	872.3
42.5°	990.8	885.2	821.6	787.1	776.9	766.1	774.9	789.1	795.9	803.3
45°	762.7	714.6	729.5	761.3	774.2	787.7	807.4	811.4	812.8	812.1
47.5°	664.6	699.1	716.7	726.8	724.8	730.2	746.5	757.3	764.1	758.0
50°	631.4	636.1	660.5	685.5	689.6	682.8	686.2	695.0	704.5	705.9
52.5°	571.2	591.5	610.4	627.3	642.2	657.1	681.5	693.7	701.1	701.1
55°	513.0	550.2	576.6	600.3	609.8	613.8	626.0	630.7	635.5	632.1
57.5°	476.4	494.0	511.6	508.2	500.8	490.0	496.7	504.9	508.2	506.2
60°	385.1	385.7	387.8	393.2	402.0	410.1	418.2	420.3	423.6	423.0
62.5°	304.5	311.3	322.1	339.7	344.5	344.5	352.6	358.7	360.7	358.0
65°	273.4	286.9	305.9	316.0	316.0	318.1	333.0	350.6	357.3	356.0



TEST NUMBER: P189290

CATALOG NUMBER: 4SWLED-LD4-44HL-LC-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
67.5°	267.3	291.0	300.5	314.7	325.5	336.3	351.2	361.4	367.5	369.5
70°	271.4	289.0	307.9	327.5	336.3	345.8	363.4	377.6	383.0	383.7
72.5°	270.7	293.7	312.7	336.3	346.5	355.3	368.2	373.6	375.6	375.6
75°	268.7	291.7	318.1	335.0	343.1	351.9	359.4	363.4	366.8	368.2
77.5°	259.9	284.9	297.8	313.3	318.7	322.8	332.3	339.1	343.8	344.5
80°	249.0	260.5	270.0	282.9	286.9	293.0	302.5	306.6	310.0	310.0
82.5°	228.1	236.2	246.3	259.9	267.3	273.4	280.9	283.6	285.6	286.3
85°	205.7	213.9	226.7	238.2	243.6	249.0	255.8	259.9	261.2	259.9
87.5°	185.4	196.9	209.1	217.9	219.9	222.7	228.1	231.4	232.8	234.2
90°	167.2	178.7	188.1	195.6	195.6	198.3	201.0	201.7	200.3	201.7
92.5°	150.9	158.4	163.8	167.2	167.2	169.2	172.6	173.9	173.2	173.9
95°	131.3	136.7	139.4	141.4	143.5	146.2	148.9	149.6	149.6	150.2
97.5°	113.7	117.8	120.5	122.5	123.2	125.2	125.2	125.9	125.9	126.6
100°	98.1	102.2	102.9	102.2	102.9	103.5	104.2	105.6	106.2	106.9
102.5°	83.2	86.6	88.0	88.7	89.3	90.7	92.0	92.7	94.1	94.1
105°	69.0	73.1	75.8	77.1	77.1	78.5	79.9	81.2	81.9	82.6
107.5°	58.9	62.9	66.3	67.7	69.0	69.7	71.1	72.4	73.1	73.8
110°	50.8	54.8	58.9	61.6	62.3	63.6	65.0	66.3	67.0	67.7
112.5°	45.3	48.7	52.1	54.8	56.2	57.5	58.9	60.2	61.6	61.6
115°	39.9	44.0	46.7	49.4	50.8	51.4	53.5	55.5	56.2	56.8
117.5°	35.9	39.3	42.0	44.7	46.0	47.4	48.7	50.1	51.4	51.4
120°	31.8	35.2	37.9	39.9	41.3	42.0	44.0	45.3	46.0	46.7
122.5°	27.7	31.1	33.2	35.9	36.5	37.9	39.9	41.3	42.0	42.6
125°	24.4	27.1	29.8	32.5	33.2	34.5	37.2	38.6	39.9	40.6
127.5°	21.7	24.4	27.7	30.5	31.8	33.8	36.5	38.6	39.9	40.6
130°	19.6	23.7	27.1	30.5	32.5	33.8	37.2	39.9	41.3	41.3
132.5°	19.6	23.7	27.7	31.1	33.2	34.5	37.9	40.6	42.0	42.6
135°	18.9	22.3	26.4	29.8	31.8	33.2	35.9	37.9	39.3	39.3
137.5°	16.9	19.6	22.3	25.0	27.1	28.4	30.5	31.8	33.2	33.2
140°	13.5	15.6	17.6	19.6	21.0	22.3	24.4	25.0	26.4	26.4
142.5°	10.2	11.5	13.5	14.9	15.6	16.9	18.3	19.6	20.3	20.3
145°	7.4	8.8	9.5	10.8	11.5	12.2	13.5	14.2	14.9	14.9
147.5°	5.4	6.1	6.8	8.1	8.1	8.8	10.2	10.8	10.8	10.8
150°	4.1	4.7	5.4	5.4	6.1	6.1	7.4	8.1	8.1	8.1
152.5°	3.4	3.4	4.1	4.1	4.7	4.7	5.4	6.1	6.1	6.1
155°	2.7	2.7	2.7	2.7	3.4	3.4	4.1	4.1	4.7	4.7
157.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.7	2.7	3.4	3.4
160°	2.0	2.0	1.4	1.4	1.4	1.4	2.0	2.0	2.0	2.0
162.5°	2.0	1.4	1.4	1.4	0.7	1.4	1.4	1.4	1.4	1.4
165°	1.4	1.4	1.4	0.7	0.7	0.7	0.7	0.7	0.7	1.4
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: P189290

CATALOG NUMBER: 4SWLED-LD4-44HL-LC-UNV-L840-CD2-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)