

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: FAIL-SAFE

Report Number: P837835

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-5HI-20-120-EDD**

Issue Date: 5/21/2024

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

**Test Information**

Test Method: LM-79-08
Report Number: P837835
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/21/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-2-INS-ASY2R-LD4-5HI-20-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and RFI grid
Light Source: 2000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

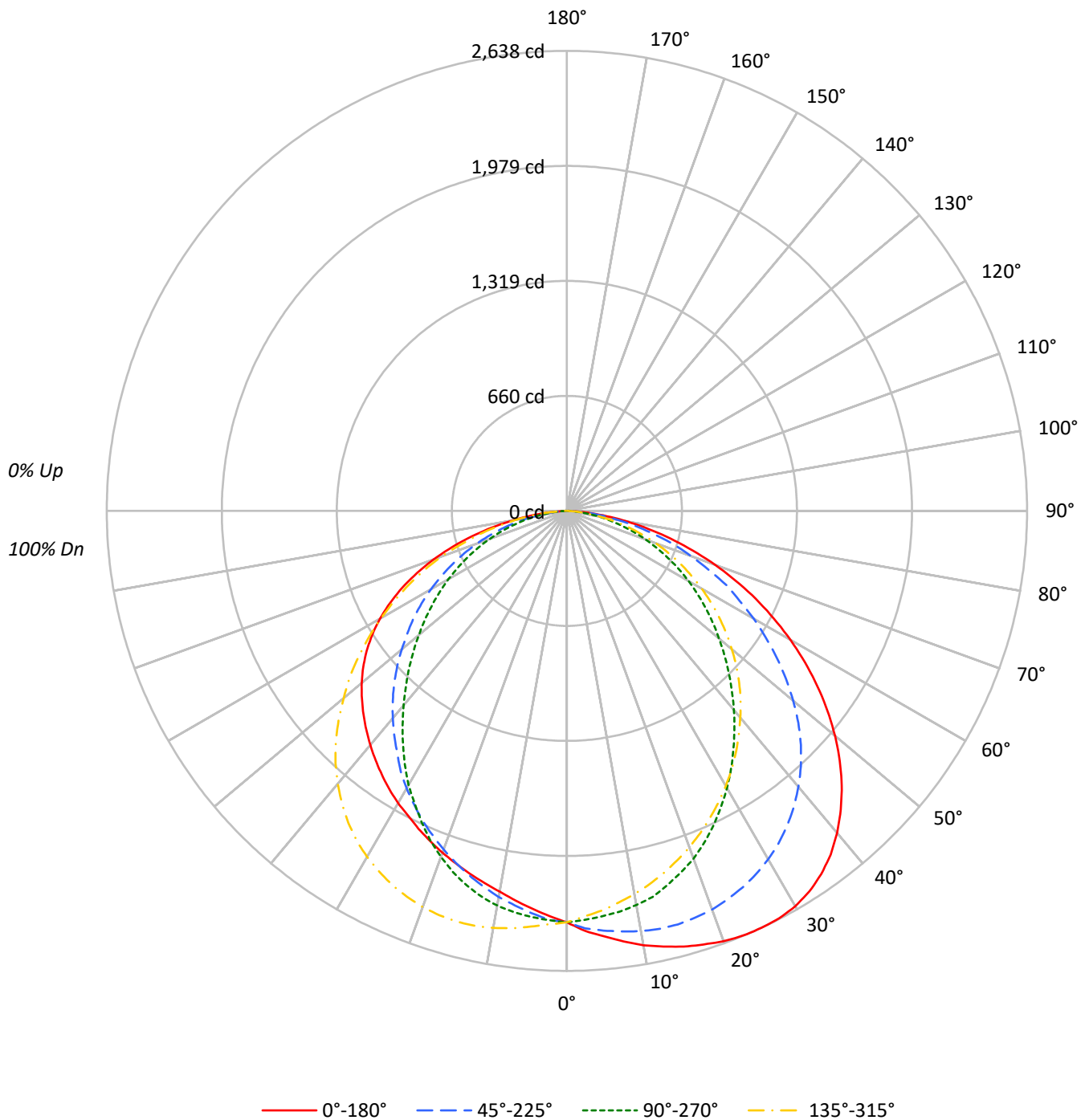
Lumens per Lamp: N/A
Luminaire Lumens: 6921.5 lumens
Efficiency: N/A
Efficacy: 62.9 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 110
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

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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	94	97	94	91		94	91	89		90
2	99	91	84	78	96	89	82	77	85	80	75		82	77	73		79
3	90	79	71	65	88	78	70	64	75	68	63		72	66	62		69
4	82	70	61	55	80	69	61	54	66	59	53		64	58	53		62
5	76	63	54	47	74	62	53	47	59	52	46		57	51	46		56
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	36		47	40	35		46
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		42
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6349	6349	6349	6349
5°	6616	6303	6184	6313
10°	6911	6271	6058	6280
15°	7207	6191	5999	6192
20°	7522	6078	5973	6044
25°	7833	5908	5972	5848
30°	8136	5703	6012	5639
35°	8352	5469	6072	5382
40°	8463	5233	6157	5115
45°	8480	4995	6277	4869
50°	8400	4767	6430	4640
55°	8226	4554	6573	4428
60°	7967	4333	6661	4221
65°	7611	4079	6626	3984
70°	7109	3780	6391	3710
75°	6396	3370	5865	3353
80°	5424	2824	4930	2865
85°	3773	1868	3128	1920

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.0	3.2
10°-20°	648.6	9.4
20°-30°	994.0	14.4
30°-40°	1208.7	17.5
40°-50°	1256.5	18.2
50°-60°	1135.0	16.4
60°-70°	862.9	12.5
70°-80°	481.0	7.0
80°-90°	110.8	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1866.6	27.0
0°-40°	3075.3	44.4
0°-60°	5466.8	79.0
0°-90°	6921.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6921.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2359	2359	2359	2359	2359	
5°	2449	2333	2289	2337	2449	236
15°	2587	2222	2153	2223	2587	733
25°	2638	1990	2011	1970	2638	1219
35°	2542	1665	1848	1638	2542	1588
45°	2228	1312	1649	1280	2228	1716
55°	1753	971	1401	944	1753	1565
65°	1195	641	1041	626	1195	1181
75°	615	324	564	322	615	654
85°	122	60	101	62	122	154
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2359.2	2359.2	2359.2	2359.2	2359.2	2359.2	2359.2	2359.2	2359.2	2359.2	2359.2
2.5°	2411.5	2376.2	2376.8	2407.6	2383.9	2395.5	2362.5	2375.1	2371.3	2374.0	2347.1
5°	2449.4	2411.5	2410.9	2437.3	2410.9	2415.9	2374.0	2382.3	2370.2	2362.5	2333.3
7.5°	2489.6	2451.6	2447.8	2470.9	2436.2	2432.4	2386.1	2386.1	2364.1	2344.9	2317.4
10°	2529.2	2490.2	2485.2	2502.8	2459.9	2447.2	2391.1	2382.3	2353.1	2324.5	2294.8
12.5°	2558.9	2519.3	2515.5	2526.5	2478.0	2454.9	2391.1	2374.0	2331.1	2290.9	2267.8
15°	2587.0	2546.3	2535.8	2541.3	2485.7	2454.9	2383.4	2357.0	2301.9	2249.1	2222.1
17.5°	2606.8	2567.7	2557.3	2556.7	2489.6	2445.6	2366.9	2330.6	2264.5	2200.7	2173.7
20°	2626.6	2587.6	2574.3	2564.4	2488.5	2432.9	2342.7	2293.7	2216.6	2145.1	2122.5
22.5°	2636.5	2596.4	2582.1	2567.2	2481.3	2409.8	2313.0	2250.8	2162.7	2077.4	2058.7
25°	2638.2	2596.9	2581.5	2560.0	2467.0	2382.3	2274.4	2199.0	2100.5	2005.9	1989.9
27.5°	2633.8	2588.7	2573.2	2547.4	2445.6	2348.7	2228.8	2140.2	2034.5	1929.9	1912.9
30°	2618.4	2572.7	2557.8	2524.3	2415.3	2307.4	2178.7	2074.7	1961.3	1850.1	1835.3
32.5°	2587.6	2543.0	2530.9	2497.3	2382.3	2259.6	2120.3	2004.2	1880.4	1774.2	1752.2
35°	2542.4	2497.9	2490.2	2454.9	2336.1	2202.3	2056.5	1927.2	1794.6	1686.1	1664.7
37.5°	2483.5	2446.1	2434.6	2399.9	2281.6	2137.4	1983.3	1843.5	1707.1	1590.4	1577.2
40°	2409.3	2374.0	2365.2	2334.4	2218.3	2065.3	1904.1	1757.1	1616.8	1508.4	1489.7
42.5°	2324.5	2291.5	2286.5	2254.6	2140.2	1985.5	1818.2	1667.4	1522.7	1418.1	1399.4
45°	2228.2	2196.3	2195.2	2164.9	2054.9	1896.9	1728.0	1576.6	1430.8	1322.4	1312.5
47.5°	2122.0	2093.4	2093.4	2065.3	1959.7	1799.5	1635.0	1482.0	1338.4	1242.6	1225.0
50°	2006.4	1979.5	1971.2	1957.5	1854.5	1693.3	1537.0	1389.5	1247.0	1155.6	1138.6
52.5°	1883.2	1860.0	1865.5	1840.2	1740.6	1582.7	1438.0	1285.5	1155.1	1072.0	1054.9
55°	1753.3	1720.3	1725.2	1715.9	1621.8	1468.8	1326.8	1199.7	1064.8	986.7	970.7
57.5°	1618.5	1575.5	1593.1	1587.6	1495.2	1352.1	1225.0	1102.3	975.1	903.1	887.6
60°	1480.3	1439.1	1457.2	1452.3	1365.3	1235.4	1119.9	1006.0	886.0	820.5	805.1
62.5°	1338.4	1300.4	1316.9	1313.0	1233.2	1116.0	1015.3	910.8	796.3	737.4	723.1
65°	1195.3	1159.0	1173.8	1171.1	1097.3	1008.2	908.0	812.3	706.0	654.9	640.6
67.5°	1048.9	1015.3	1029.1	1029.1	961.4	876.1	800.1	712.7	617.4	573.4	560.2
70°	903.6	872.2	884.3	883.2	826.0	756.7	691.2	613.0	527.7	491.4	480.4
72.5°	757.2	729.7	740.7	739.6	691.7	647.2	582.2	514.5	440.2	411.1	401.2
75°	615.2	589.4	599.8	598.7	559.7	517.8	474.4	418.2	354.4	334.0	324.1
77.5°	479.9	453.5	462.3	462.3	433.6	403.4	368.7	325.2	280.1	258.1	250.9
80°	350.0	337.3	332.9	333.5	314.2	294.4	276.8	235.0	202.0	187.1	182.2
82.5°	230.0	219.6	215.2	216.3	205.3	193.2	182.2	153.0	131.0	122.2	119.4
85°	122.2	114.5	110.6	113.4	111.2	104.6	99.1	79.2	65.5	62.2	60.5
87.5°	38.5	33.6	30.8	40.7	34.7	30.8	29.7	23.7	18.2	18.2	17.6
90°	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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2359.2	2359.2	2359.2	2359.2	2359.2	2359.2	2359.2	2359.2	2359.2	2359.2	2359.2
2.5°	2355.9	2355.9	2334.4	2329.5	2327.3	2330.0	2308.5	2304.7	2335.5	2325.1	2301.4
5°	2337.2	2336.1	2305.8	2300.3	2300.3	2297.0	2272.8	2267.3	2298.1	2289.3	2263.4
7.5°	2314.1	2310.7	2275.0	2271.1	2265.6	2263.4	2236.5	2232.6	2259.0	2253.5	2229.3
10°	2286.0	2282.7	2240.3	2237.6	2231.5	2227.1	2201.8	2199.0	2226.0	2217.2	2197.9
12.5°	2249.1	2243.1	2199.6	2196.8	2191.9	2190.2	2165.5	2164.4	2194.1	2185.3	2164.9
15°	2200.7	2195.7	2147.3	2148.4	2149.0	2149.0	2129.1	2128.0	2157.2	2153.4	2131.3
17.5°	2147.3	2140.7	2094.5	2097.8	2101.6	2106.0	2090.6	2093.4	2124.2	2119.2	2099.4
20°	2086.8	2080.2	2035.0	2044.4	2052.7	2061.5	2051.6	2059.3	2087.9	2085.7	2070.8
22.5°	2019.1	2012.5	1970.7	1985.0	1998.7	2015.2	2010.8	2019.6	2049.9	2049.4	2036.1
25°	1936.5	1938.2	1901.3	1918.9	1942.0	1965.2	1966.8	1981.1	2014.7	2011.4	1999.3
27.5°	1859.5	1861.7	1822.6	1852.3	1883.2	1912.9	1920.0	1939.8	1974.0	1971.2	1960.8
30°	1778.6	1781.4	1743.4	1784.1	1821.5	1857.8	1873.3	1900.2	1934.9	1934.9	1923.9
32.5°	1694.4	1699.4	1659.7	1714.2	1757.7	1800.1	1827.0	1855.1	1894.7	1893.6	1884.3
35°	1608.0	1613.5	1577.2	1646.5	1690.0	1741.7	1775.3	1812.7	1847.9	1848.5	1841.3
37.5°	1520.0	1526.6	1493.5	1569.5	1619.0	1680.1	1723.0	1760.4	1799.5	1801.7	1795.1
40°	1432.5	1439.6	1411.0	1484.2	1546.9	1615.2	1664.7	1708.7	1751.6	1752.7	1748.3
42.5°	1345.0	1352.7	1331.2	1402.7	1473.7	1546.9	1605.3	1655.3	1699.4	1702.1	1697.2
45°	1259.7	1266.3	1250.9	1329.0	1397.2	1477.0	1544.2	1600.9	1645.4	1649.3	1647.6
47.5°	1174.9	1181.0	1167.2	1238.7	1317.4	1402.2	1479.8	1542.5	1589.8	1594.2	1593.1
50°	1091.8	1096.8	1081.9	1156.8	1234.9	1325.1	1406.0	1478.7	1531.5	1535.9	1535.4
52.5°	1009.3	1014.2	1001.6	1080.3	1151.2	1246.5	1334.5	1413.2	1465.5	1472.1	1473.2
55°	929.5	931.7	921.8	997.2	1065.9	1165.6	1266.8	1343.3	1395.6	1401.1	1404.4
57.5°	849.7	850.2	842.0	914.1	980.1	1081.9	1188.1	1268.5	1318.0	1323.5	1328.4
60°	770.4	769.9	760.5	830.4	893.7	994.4	1105.0	1184.8	1232.7	1237.6	1244.2
62.5°	691.7	690.1	681.8	746.2	805.7	905.3	1016.4	1093.5	1139.1	1142.4	1151.2
65°	613.6	611.9	604.2	663.7	717.6	812.8	921.8	995.0	1036.2	1040.6	1039.0
67.5°	536.6	533.2	527.2	580.6	629.6	717.6	822.2	892.1	926.2	930.0	940.5
70°	459.5	455.7	441.9	498.6	541.5	620.2	717.6	779.8	808.4	812.3	810.6
72.5°	383.6	379.7	364.9	417.1	453.5	522.2	609.2	660.9	685.7	689.0	689.0
75°	309.8	307.6	298.3	337.9	368.2	424.3	498.0	541.0	560.2	564.1	563.0
77.5°	238.8	237.2	227.8	261.9	285.6	327.4	386.9	420.4	434.7	439.1	448.5
80°	171.1	170.6	155.7	189.3	199.8	235.0	278.5	304.3	312.0	318.1	324.7
82.5°	109.5	110.1	95.2	123.8	128.2	150.8	177.7	193.7	199.2	204.2	209.1
85°	53.4	55.6	47.3	65.5	66.0	77.6	89.2	95.2	97.4	101.3	105.7
87.5°	13.8	16.0	8.8	18.7	16.5	21.5	24.8	26.4	25.9	28.6	30.3
90°	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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2359.2	2359.2	2359.2	2359.2	2359.2	2359.2	2359.2	2359.2	2359.2	2359.2	2359.2
2.5°	2309.1	2326.7	2317.9	2346.5	2357.5	2339.9	2370.7	2371.3	2349.3	2375.1	2389.4
5°	2273.3	2291.5	2286.0	2315.7	2329.5	2314.1	2351.5	2358.6	2337.2	2366.3	2389.4
7.5°	2237.0	2258.5	2251.3	2281.6	2298.1	2286.0	2326.2	2337.7	2321.2	2353.1	2383.9
10°	2205.6	2223.8	2216.1	2248.0	2262.3	2252.4	2292.0	2313.5	2298.1	2337.2	2374.0
12.5°	2174.8	2189.7	2180.9	2207.3	2221.0	2208.4	2256.8	2276.6	2265.6	2306.3	2353.7
15°	2135.2	2151.7	2139.6	2163.3	2173.7	2162.7	2202.3	2236.5	2222.7	2267.3	2319.6
17.5°	2104.9	2114.3	2097.8	2116.5	2122.5	2107.7	2147.9	2181.4	2171.5	2219.9	2280.5
20°	2071.4	2079.1	2056.0	2066.4	2065.9	2047.2	2084.0	2117.0	2110.4	2163.8	2232.6
22.5°	2033.9	2037.8	2010.8	2013.0	2011.9	1981.1	2014.1	2047.7	2045.0	2098.9	2175.9
25°	1994.3	1994.9	1960.2	1959.1	1947.0	1910.7	1939.8	1977.8	1969.6	2027.9	2108.8
27.5°	1955.2	1949.7	1907.9	1898.0	1878.8	1835.3	1861.1	1895.3	1890.3	1947.5	2037.2
30°	1913.4	1906.3	1855.1	1836.9	1808.9	1758.8	1780.3	1812.2	1814.9	1865.0	1959.1
32.5°	1873.8	1855.6	1799.0	1772.5	1737.3	1679.0	1690.6	1723.0	1727.4	1778.0	1874.9
35°	1822.6	1810.5	1740.6	1695.5	1660.8	1597.0	1609.1	1631.7	1638.3	1687.8	1786.3
37.5°	1774.2	1754.9	1680.6	1625.6	1581.0	1513.9	1517.2	1540.3	1546.9	1597.0	1694.4
40°	1724.1	1696.6	1616.8	1552.4	1501.2	1430.8	1427.0	1451.2	1456.1	1505.1	1593.1
42.5°	1670.7	1637.7	1548.0	1477.6	1418.7	1347.2	1339.5	1360.4	1365.9	1413.7	1500.1
45°	1616.8	1577.2	1477.6	1400.5	1336.2	1263.0	1255.3	1271.2	1279.5	1324.6	1407.7
47.5°	1559.6	1513.4	1404.9	1319.1	1252.5	1179.3	1170.0	1185.9	1192.5	1237.1	1315.8
50°	1499.6	1443.5	1330.1	1235.4	1169.4	1097.3	1083.6	1102.3	1108.3	1150.1	1227.2
52.5°	1433.6	1371.4	1250.3	1151.2	1085.2	1016.4	999.9	1018.1	1025.2	1065.9	1136.9
55°	1363.7	1296.5	1170.0	1073.7	1002.1	935.0	921.2	928.4	943.8	982.3	1048.3
57.5°	1285.0	1218.4	1085.2	987.3	918.5	854.1	842.5	849.1	863.4	900.9	960.3
60°	1201.3	1130.9	998.8	900.9	834.3	773.2	762.7	768.8	784.2	818.3	873.3
62.5°	1118.8	1039.5	909.7	812.3	751.7	695.0	692.3	690.1	704.4	737.4	785.8
65°	1018.6	942.7	816.7	724.2	669.2	618.0	607.0	611.9	625.7	656.0	706.6
67.5°	911.3	842.5	721.5	636.2	587.2	541.5	532.1	534.4	548.7	575.1	619.1
70°	797.4	736.9	624.1	547.6	506.3	463.4	457.3	457.9	471.6	494.7	533.2
72.5°	678.0	623.5	525.5	460.1	425.9	395.1	389.6	383.0	395.7	415.5	448.5
75°	556.4	508.5	427.6	374.2	347.2	321.4	316.4	309.8	322.5	339.5	365.4
77.5°	433.6	395.1	332.4	291.1	270.2	250.9	246.5	239.4	252.0	264.7	285.1
80°	313.7	285.6	248.2	204.7	197.6	184.9	180.5	172.8	184.9	193.2	208.6
82.5°	202.5	183.8	162.3	132.1	131.0	121.6	119.4	110.6	121.6	126.6	138.1
85°	102.4	93.6	88.0	67.1	69.3	63.3	62.7	53.4	62.2	64.4	71.0
87.5°	29.2	30.8	27.5	16.5	20.9	19.8	19.8	14.3	19.8	19.8	22.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P837835

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-5HI-20-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2359.2	2359.2	2359.2	2359.2	2359.2	2359.2	2359.2	2359.2
2.5°	2361.4	2370.7	2372.9	2372.4	2378.4	2411.5	2400.4	2411.5
5°	2366.9	2387.8	2393.3	2401.0	2410.9	2448.3	2436.2	2449.4
7.5°	2370.2	2401.6	2413.7	2428.5	2444.5	2486.3	2476.4	2489.6
10°	2370.2	2410.9	2428.5	2453.3	2474.7	2523.2	2513.8	2529.2
12.5°	2360.3	2412.6	2437.3	2472.0	2499.5	2551.8	2547.9	2558.9
15°	2339.9	2404.3	2438.4	2483.0	2517.1	2575.4	2573.8	2587.0
17.5°	2312.4	2390.0	2431.3	2487.4	2530.3	2595.8	2599.7	2606.8
20°	2277.7	2363.0	2417.0	2485.7	2539.7	2611.8	2616.7	2626.6
22.5°	2232.1	2330.6	2395.5	2478.6	2540.8	2618.4	2627.2	2636.5
25°	2178.1	2291.5	2367.4	2464.8	2535.3	2617.8	2629.9	2638.2
27.5°	2116.5	2240.9	2331.7	2442.8	2519.9	2609.0	2623.9	2633.8
30°	2045.0	2186.9	2290.9	2414.2	2499.0	2592.5	2608.5	2618.4
32.5°	1971.2	2127.5	2242.5	2377.3	2468.7	2566.1	2579.9	2587.6
35°	1890.9	2055.4	2184.2	2330.0	2429.6	2523.7	2534.2	2542.4
37.5°	1803.4	1977.3	2117.6	2276.6	2374.6	2464.8	2474.2	2483.5
40°	1713.1	1895.3	2042.7	2211.1	2309.1	2392.7	2402.7	2409.3
42.5°	1622.3	1804.5	1963.0	2134.1	2231.5	2311.9	2317.9	2324.5
45°	1530.4	1710.4	1873.3	2048.8	2145.1	2220.5	2222.7	2228.2
47.5°	1436.9	1613.0	1774.7	1951.4	2046.6	2115.4	2117.6	2122.0
50°	1342.8	1515.6	1669.6	1846.3	1939.3	2011.9	2002.0	2006.4
52.5°	1250.3	1413.2	1570.6	1732.9	1824.8	1889.2	1892.0	1883.2
55°	1159.5	1313.0	1457.8	1614.1	1701.6	1751.6	1750.0	1753.3
57.5°	1067.6	1211.8	1344.4	1487.5	1572.8	1620.1	1630.0	1618.5
60°	974.0	1109.4	1228.3	1357.6	1440.2	1479.8	1491.3	1480.3
62.5°	881.0	1005.4	1113.3	1226.1	1302.6	1351.6	1350.5	1338.4
65°	788.0	900.9	997.2	1092.9	1159.5	1208.5	1206.3	1195.3
67.5°	702.2	795.2	881.6	959.2	1017.0	1050.5	1062.1	1048.9
70°	607.5	687.9	763.8	826.0	873.9	904.2	915.2	903.6
72.5°	512.9	581.1	634.5	694.5	731.4	756.7	768.2	757.2
75°	419.3	475.5	518.9	565.7	591.6	613.0	626.3	615.2
77.5°	328.5	372.0	406.7	440.8	470.5	475.5	487.0	479.9
80°	242.1	273.5	298.8	321.4	342.8	345.0	354.4	350.0
82.5°	161.2	182.2	188.8	212.4	226.2	224.0	233.3	230.0
85°	85.3	98.0	109.5	116.7	124.4	117.2	125.5	122.2
87.5°	28.6	30.3	26.4	37.4	41.3	35.2	40.2	38.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)