

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: P838168

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-2HI-27-120-EDD-90**

Issue Date: 5/21/2024



Test Information

Test Method: LM-79-08
Report Number: P838168
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/21/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-4-INS-ASY2R-LD4-2HI-27-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

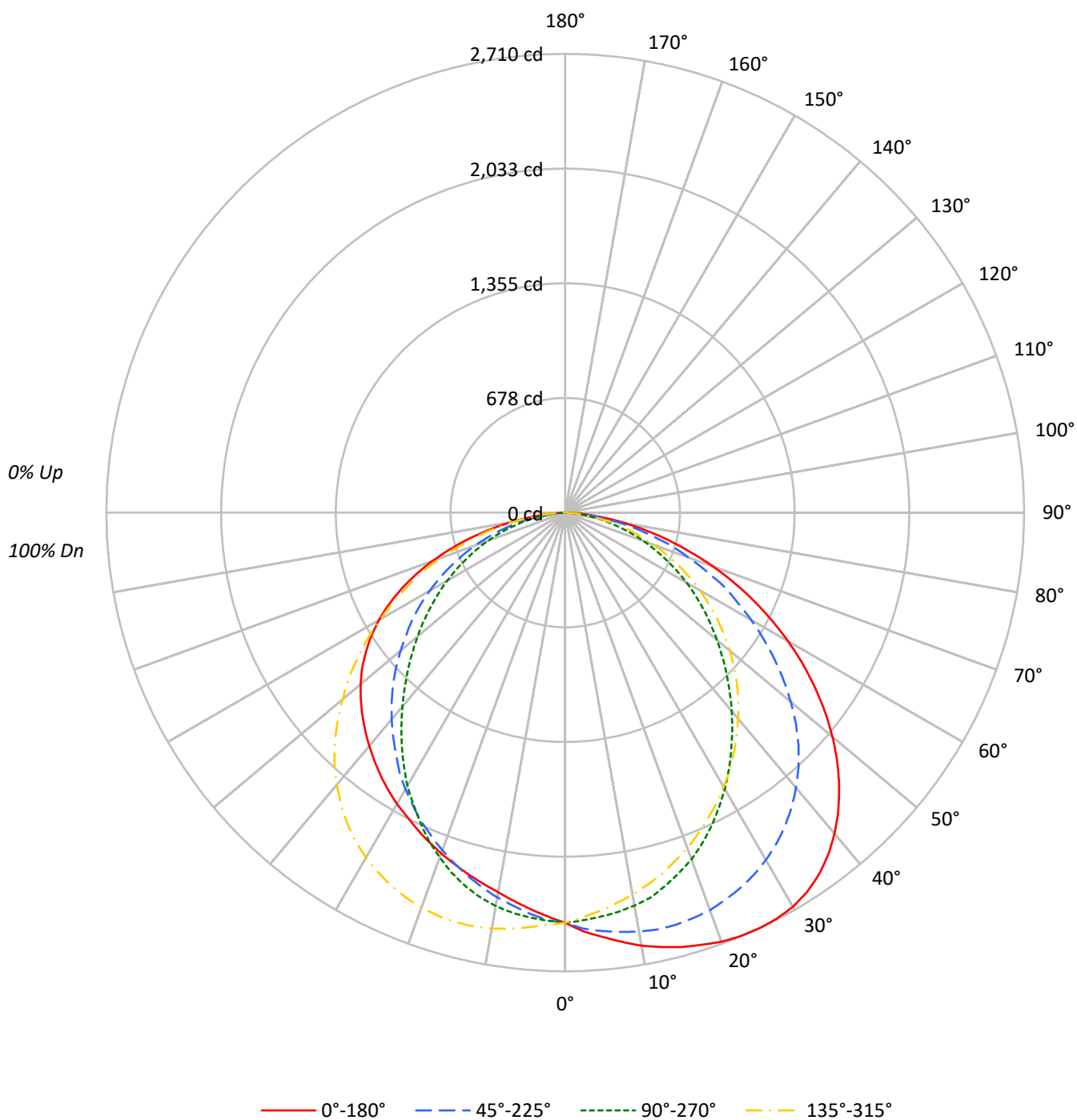
Lumens per Lamp: N/A
Luminaire Lumens: 7108.8 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 88
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



Cooper Lighting Solutions Photometric Lab

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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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84		
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70		
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	59		
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38		
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33		
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29		
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26		
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	3260	3260	3260	3260
5°	3398	3237	3176	3242
10°	3549	3220	3111	3225
15°	3701	3179	3081	3180
20°	3863	3121	3067	3104
25°	4023	3034	3067	3003
30°	4178	2928	3087	2896
35°	4289	2808	3118	2764
40°	4346	2687	3162	2627
45°	4355	2565	3223	2500
50°	4313	2448	3302	2383
55°	4224	2339	3376	2274
60°	4091	2225	3421	2167
65°	3908	2095	3403	2046
70°	3651	1941	3282	1906
75°	3285	1731	3012	1722
80°	2786	1450	2531	1471
85°	1937	960	1606	986

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.0	3.2
10°-20°	666.2	9.4
20°-30°	1020.9	14.4
30°-40°	1241.4	17.5
40°-50°	1290.5	18.2
50°-60°	1165.7	16.4
60°-70°	886.2	12.5
70°-80°	494.1	7.0
80°-90°	113.8	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°	1917.1	27.0
0°-40°	3158.5	44.4
0°-60°	5614.7	79.0
0°-90°	7108.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7108.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2423	2423	2423	2423	2423	
5°	2516	2396	2351	2400	2516	243
15°	2657	2282	2212	2283	2657	753
25°	2710	2044	2066	2023	2710	1251
35°	2611	1710	1898	1683	2611	1631
45°	2288	1348	1694	1314	2288	1762
55°	1801	997	1439	969	1801	1607
65°	1228	658	1069	643	1228	1213
75°	632	333	579	331	632	671
85°	126	62	104	64	126	158
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°	2423.0	2423.0	2423.0	2423.0	2423.0	2423.0	2423.0	2423.0	2423.0	2423.0	2423.0
2.5°	2476.7	2440.5	2441.1	2472.7	2448.4	2460.3	2426.4	2439.4	2435.4	2438.3	2410.6
5°	2515.7	2476.7	2476.1	2503.3	2476.1	2481.2	2438.3	2446.7	2434.3	2426.4	2396.4
7.5°	2557.0	2518.0	2514.0	2537.7	2502.1	2498.2	2450.7	2450.7	2428.1	2408.3	2380.1
10°	2597.7	2557.5	2552.4	2570.5	2526.4	2513.4	2455.8	2446.7	2416.8	2387.4	2356.9
12.5°	2628.2	2587.5	2583.5	2594.8	2545.1	2521.4	2455.8	2438.3	2394.2	2352.9	2329.2
15°	2657.0	2615.2	2604.4	2610.1	2553.0	2521.4	2447.9	2420.7	2364.2	2310.0	2282.3
17.5°	2677.3	2637.2	2626.5	2625.9	2557.0	2511.7	2430.9	2393.6	2325.8	2260.2	2232.5
20°	2697.7	2657.6	2644.0	2633.8	2555.8	2498.7	2406.1	2355.7	2276.6	2203.1	2180.0
22.5°	2707.9	2666.6	2651.9	2636.7	2548.5	2475.0	2375.5	2311.7	2221.2	2133.6	2114.4
25°	2709.6	2667.2	2651.3	2629.3	2533.8	2446.7	2336.0	2258.5	2157.4	2060.2	2043.8
27.5°	2705.0	2658.7	2642.9	2616.3	2511.7	2412.3	2289.1	2198.1	2089.5	1982.2	1964.6
30°	2689.2	2642.3	2627.0	2592.6	2480.7	2369.9	2237.6	2130.8	2014.4	1900.2	1884.9
32.5°	2657.6	2611.8	2599.4	2564.9	2446.7	2320.7	2177.7	2058.5	1931.3	1822.2	1799.6
35°	2611.2	2565.4	2557.5	2521.4	2399.3	2261.9	2112.1	1979.3	1843.1	1731.8	1709.7
37.5°	2550.7	2512.3	2500.4	2464.8	2343.3	2195.2	2037.0	1893.4	1753.2	1633.4	1619.9
40°	2474.4	2438.3	2429.2	2397.6	2278.3	2121.2	1955.6	1804.7	1660.6	1549.2	1530.0
42.5°	2387.4	2353.5	2348.4	2315.6	2198.1	2039.2	1867.4	1712.6	1563.9	1456.5	1437.3
45°	2288.5	2255.7	2254.6	2223.5	2110.5	1948.2	1774.7	1619.3	1469.5	1358.2	1348.0
47.5°	2179.4	2150.0	2150.0	2121.2	2012.7	1848.2	1679.2	1522.1	1374.6	1276.2	1258.1
50°	2060.7	2033.0	2024.5	2010.4	1904.7	1739.1	1578.6	1427.1	1280.7	1186.9	1169.4
52.5°	1934.1	1910.4	1916.0	1890.0	1787.7	1625.5	1476.9	1320.3	1186.4	1101.0	1083.5
55°	1800.7	1766.8	1771.9	1762.3	1665.6	1508.5	1362.7	1232.1	1093.7	1013.4	997.0
57.5°	1662.3	1618.2	1636.3	1630.6	1535.6	1388.7	1258.1	1132.1	1001.5	927.5	911.7
60°	1520.4	1478.0	1496.6	1491.6	1402.3	1268.9	1150.2	1033.2	910.0	842.7	826.9
62.5°	1374.6	1335.6	1352.5	1348.6	1266.6	1146.2	1042.8	935.4	817.8	757.4	742.7
65°	1227.6	1190.3	1205.6	1202.7	1127.0	1035.4	932.6	834.2	725.2	672.6	657.9
67.5°	1077.3	1042.8	1056.9	1056.9	987.4	899.8	821.8	731.9	634.2	588.9	575.4
70°	928.1	895.8	908.3	907.1	848.4	777.1	709.9	629.6	542.0	504.7	493.4
72.5°	777.7	749.5	760.8	759.6	710.5	664.7	598.0	528.5	452.2	422.2	412.0
75°	631.9	605.3	616.1	614.9	574.8	531.9	487.2	429.6	364.0	343.1	332.9
77.5°	492.9	465.7	474.8	474.8	445.4	414.3	378.7	334.0	287.7	265.1	257.7
80°	359.5	346.5	341.9	342.5	322.7	302.4	284.3	241.3	207.4	192.2	187.1
82.5°	236.3	225.5	221.0	222.1	210.8	198.4	187.1	157.1	134.5	125.5	122.6
85°	125.5	117.6	113.6	116.4	114.2	107.4	101.7	81.4	67.3	63.9	62.2
87.5°	39.6	34.5	31.7	41.8	35.6	31.7	30.5	24.3	18.7	18.7	18.1
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°	2423.0	2423.0	2423.0	2423.0	2423.0	2423.0	2423.0	2423.0	2423.0	2423.0	2423.0
2.5°	2419.6	2419.6	2397.6	2392.5	2390.2	2393.1	2371.0	2367.1	2398.7	2388.0	2363.7
5°	2400.4	2399.3	2368.2	2362.5	2362.5	2359.1	2334.3	2328.6	2360.3	2351.2	2324.7
7.5°	2376.7	2373.3	2336.5	2332.6	2326.9	2324.7	2297.0	2293.0	2320.1	2314.5	2289.6
10°	2347.8	2344.4	2300.9	2298.1	2291.9	2287.4	2261.4	2258.5	2286.2	2277.2	2257.4
12.5°	2310.0	2303.8	2259.1	2256.3	2251.2	2249.5	2224.1	2222.9	2253.4	2244.4	2223.5
15°	2260.2	2255.1	2205.4	2206.5	2207.1	2207.1	2186.8	2185.6	2215.6	2211.6	2189.0
17.5°	2205.4	2198.6	2151.1	2154.5	2158.5	2163.0	2147.2	2150.0	2181.7	2176.6	2156.2
20°	2143.2	2136.5	2090.1	2099.7	2108.2	2117.2	2107.1	2115.0	2144.4	2142.1	2126.8
22.5°	2073.7	2066.9	2024.0	2038.7	2052.8	2069.8	2065.2	2074.3	2105.4	2104.8	2091.2
25°	1988.9	1990.6	1952.8	1970.8	1994.6	2018.3	2020.0	2034.7	2069.2	2065.8	2053.4
27.5°	1909.8	1912.1	1871.9	1902.5	1934.1	1964.6	1972.0	1992.3	2027.4	2024.5	2013.8
30°	1826.7	1829.5	1790.6	1832.4	1870.8	1908.1	1923.9	1951.6	1987.2	1987.2	1975.9
32.5°	1740.2	1745.3	1704.6	1760.6	1805.2	1848.8	1876.5	1905.3	1946.0	1944.8	1935.2
35°	1651.5	1657.2	1619.9	1691.1	1735.7	1788.9	1823.3	1861.8	1897.9	1898.5	1891.2
37.5°	1561.1	1567.9	1534.0	1611.9	1662.8	1725.6	1769.6	1808.1	1848.2	1850.5	1843.7
40°	1471.2	1478.6	1449.2	1524.3	1588.8	1658.9	1709.7	1754.9	1799.0	1800.2	1795.6
42.5°	1381.3	1389.3	1367.2	1440.7	1513.6	1588.8	1648.7	1700.1	1745.3	1748.2	1743.1
45°	1293.7	1300.5	1284.7	1365.0	1435.0	1517.0	1585.9	1644.2	1689.9	1693.9	1692.2
47.5°	1206.7	1212.9	1198.8	1272.3	1353.1	1440.1	1519.8	1584.3	1632.9	1637.4	1636.3
50°	1121.4	1126.4	1111.2	1188.0	1268.3	1361.0	1444.1	1518.7	1572.9	1577.5	1576.9
52.5°	1036.6	1041.7	1028.7	1109.5	1182.4	1280.2	1370.6	1451.4	1505.1	1511.9	1513.0
55°	954.6	956.9	946.7	1024.1	1094.8	1197.1	1301.1	1379.7	1433.3	1439.0	1442.4
57.5°	872.7	873.2	864.8	938.8	1006.6	1111.2	1220.3	1302.8	1353.7	1359.3	1364.4
60°	791.3	790.7	781.1	852.9	917.9	1021.3	1134.9	1216.9	1266.0	1271.1	1277.9
62.5°	710.5	708.8	700.3	766.4	827.5	929.8	1043.9	1123.1	1170.0	1173.4	1182.4
65°	630.2	628.5	620.6	681.6	737.0	834.8	946.7	1021.9	1064.3	1068.8	1067.1
67.5°	551.1	547.7	541.5	596.3	646.6	737.0	844.4	916.2	951.2	955.2	965.9
70°	471.9	468.0	453.9	512.1	556.2	637.0	737.0	800.9	830.3	834.2	832.5
72.5°	393.9	390.0	374.7	428.4	465.7	536.4	625.7	678.8	704.2	707.6	707.6
75°	318.2	315.9	306.3	347.0	378.1	435.8	511.5	555.6	575.4	579.3	578.2
77.5°	245.3	243.6	234.0	269.0	293.3	336.3	397.3	431.8	446.5	451.0	460.6
80°	175.8	175.2	160.0	194.4	205.2	241.3	286.0	312.6	320.5	326.7	333.5
82.5°	112.5	113.0	97.8	127.2	131.7	154.9	182.6	199.0	204.6	209.7	214.8
85°	54.8	57.1	48.6	67.3	67.8	79.7	91.6	97.8	100.0	104.0	108.5
87.5°	14.1	16.4	9.0	19.2	17.0	22.0	25.4	27.1	26.6	29.4	31.1
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°	2423.0	2423.0	2423.0	2423.0	2423.0	2423.0	2423.0	2423.0	2423.0	2423.0	2423.0
2.5°	2371.6	2389.7	2380.6	2410.0	2421.3	2403.2	2434.9	2435.4	2412.8	2439.4	2454.1
5°	2334.8	2353.5	2347.8	2378.4	2392.5	2376.7	2415.1	2422.4	2400.4	2430.4	2454.1
7.5°	2297.5	2319.6	2312.2	2343.3	2360.3	2347.8	2389.1	2401.0	2384.0	2416.8	2448.4
10°	2265.3	2284.0	2276.1	2308.8	2323.5	2313.4	2354.1	2376.1	2360.3	2400.4	2438.3
12.5°	2233.7	2248.9	2239.9	2267.0	2281.1	2268.1	2317.9	2338.2	2326.9	2368.7	2417.4
15°	2193.0	2209.9	2197.5	2221.8	2232.5	2221.2	2261.9	2297.0	2282.8	2328.6	2382.3
17.5°	2161.9	2171.5	2154.5	2173.8	2180.0	2164.7	2206.0	2240.4	2230.3	2280.0	2342.2
20°	2127.4	2135.3	2111.6	2122.3	2121.8	2102.5	2140.4	2174.3	2167.5	2222.4	2293.0
22.5°	2089.0	2092.9	2065.2	2067.5	2066.4	2034.7	2068.6	2103.1	2100.3	2155.7	2234.8
25°	2048.3	2048.8	2013.2	2012.1	1999.7	1962.4	1992.3	2031.3	2022.8	2082.8	2165.8
27.5°	2008.2	2002.5	1959.5	1949.4	1929.6	1884.9	1911.5	1946.5	1941.5	2000.2	2092.4
30°	1965.2	1957.8	1905.3	1886.6	1857.8	1806.4	1828.4	1861.2	1864.0	1915.5	2012.1
32.5°	1924.5	1905.9	1847.6	1820.5	1784.3	1724.4	1736.3	1769.6	1774.2	1826.2	1925.6
35°	1871.9	1859.5	1787.7	1741.4	1705.8	1640.2	1652.6	1675.8	1682.6	1733.5	1834.6
37.5°	1822.2	1802.4	1726.1	1669.6	1623.8	1554.9	1558.3	1582.0	1588.8	1640.2	1740.2
40°	1770.8	1742.5	1660.6	1594.4	1541.9	1469.5	1465.6	1490.4	1495.5	1545.8	1636.3
42.5°	1715.9	1682.0	1589.9	1517.6	1457.1	1383.6	1375.7	1397.2	1402.8	1452.0	1540.7
45°	1660.6	1619.9	1517.6	1438.4	1372.3	1297.1	1289.2	1305.6	1314.1	1360.4	1445.8
47.5°	1601.8	1554.3	1443.0	1354.8	1286.4	1211.2	1201.6	1218.0	1224.8	1270.6	1351.4
50°	1540.2	1482.5	1366.1	1268.9	1201.0	1127.0	1112.9	1132.1	1138.3	1181.3	1260.4
52.5°	1472.3	1408.5	1284.1	1182.4	1114.6	1043.9	1027.0	1045.6	1053.0	1094.8	1167.7
55°	1400.6	1331.6	1201.6	1102.7	1029.2	960.3	946.1	953.5	969.3	1008.9	1076.7
57.5°	1319.7	1251.4	1114.6	1014.0	943.3	877.2	865.3	872.1	886.8	925.2	986.3
60°	1233.8	1161.5	1025.8	925.2	856.8	794.1	783.4	789.6	805.4	840.5	897.0
62.5°	1149.0	1067.7	934.3	834.2	772.1	713.8	711.0	708.8	723.5	757.4	807.1
65°	1046.2	968.2	838.8	743.8	687.3	634.7	623.4	628.5	642.6	673.7	725.7
67.5°	936.0	865.3	741.0	653.4	603.1	556.2	546.5	548.8	563.5	590.6	635.8
70°	819.0	756.8	640.9	562.4	520.0	475.9	469.7	470.2	484.4	508.1	547.7
72.5°	696.3	640.4	539.8	472.5	437.5	405.8	400.2	393.4	406.4	426.7	460.6
75°	571.4	522.2	439.2	384.3	356.6	330.1	325.0	318.2	331.2	348.7	375.3
77.5°	445.4	405.8	341.4	299.0	277.5	257.7	253.2	245.9	258.9	271.9	292.8
80°	322.2	293.3	254.9	210.3	202.9	189.9	185.4	177.5	189.9	198.4	214.2
82.5°	208.0	188.8	166.7	135.6	134.5	124.9	122.6	113.6	124.9	130.0	141.9
85°	105.1	96.1	90.4	69.0	71.2	65.0	64.4	54.8	63.9	66.1	72.9
87.5°	30.0	31.7	28.3	17.0	21.5	20.3	20.3	14.7	20.3	20.3	23.2
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: P838168

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-2HI-27-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2423.0	2423.0	2423.0	2423.0	2423.0	2423.0	2423.0	2423.0
2.5°	2425.3	2434.9	2437.1	2436.6	2442.8	2476.7	2465.4	2476.7
5°	2430.9	2452.4	2458.1	2466.0	2476.1	2514.6	2502.1	2515.7
7.5°	2434.3	2466.5	2479.0	2494.2	2510.6	2553.6	2543.4	2557.0
10°	2434.3	2476.1	2494.2	2519.7	2541.7	2591.4	2581.8	2597.7
12.5°	2424.1	2477.8	2503.3	2538.9	2567.1	2620.8	2616.9	2628.2
15°	2403.2	2469.4	2504.4	2550.2	2585.2	2645.1	2643.4	2657.0
17.5°	2375.0	2454.7	2497.0	2554.7	2598.8	2666.0	2670.0	2677.3
20°	2339.4	2427.0	2482.4	2553.0	2608.4	2682.4	2687.5	2697.7
22.5°	2292.4	2393.6	2460.3	2545.7	2609.5	2689.2	2698.3	2707.9
25°	2237.1	2353.5	2431.5	2531.5	2603.9	2688.7	2701.1	2709.6
27.5°	2173.8	2301.5	2394.7	2508.9	2588.0	2679.6	2694.9	2705.0
30°	2100.3	2246.1	2352.9	2479.5	2566.6	2662.7	2679.0	2689.2
32.5°	2024.5	2185.1	2303.2	2441.7	2535.5	2635.5	2649.7	2657.6
35°	1942.0	2111.0	2243.3	2393.1	2495.4	2592.0	2602.7	2611.2
37.5°	1852.2	2030.8	2174.9	2338.2	2438.8	2531.5	2541.1	2550.7
40°	1759.5	1946.5	2098.0	2271.0	2371.6	2457.5	2467.7	2474.4
42.5°	1666.2	1853.3	2016.1	2191.8	2291.9	2374.4	2380.6	2387.4
45°	1571.8	1756.6	1923.9	2104.2	2203.1	2280.6	2282.8	2288.5
47.5°	1475.7	1656.6	1822.8	2004.2	2102.0	2172.6	2174.9	2179.4
50°	1379.1	1556.6	1714.8	1896.2	1991.8	2066.4	2056.2	2060.7
52.5°	1284.1	1451.4	1613.1	1779.8	1874.2	1940.3	1943.2	1934.1
55°	1190.9	1348.6	1497.2	1657.7	1747.6	1799.0	1797.3	1800.7
57.5°	1096.5	1244.6	1380.8	1527.7	1615.3	1663.9	1674.1	1662.3
60°	1000.4	1139.4	1261.5	1394.3	1479.1	1519.8	1531.7	1520.4
62.5°	904.9	1032.6	1143.4	1259.3	1337.8	1388.1	1387.0	1374.6
65°	809.4	925.2	1024.1	1122.5	1190.9	1241.2	1238.9	1227.6
67.5°	721.2	816.7	905.4	985.1	1044.5	1079.0	1090.8	1077.3
70°	624.0	706.5	784.5	848.4	897.5	928.6	939.9	928.1
72.5°	526.8	596.9	651.7	713.3	751.1	777.1	789.0	777.7
75°	430.7	488.3	533.0	581.0	607.6	629.6	643.2	631.9
77.5°	337.4	382.1	417.7	452.7	483.2	488.3	500.2	492.9
80°	248.7	280.9	306.9	330.1	352.1	354.4	364.0	359.5
82.5°	165.6	187.1	193.9	218.2	232.3	230.0	239.6	236.3
85°	87.6	100.6	112.5	119.8	127.7	120.4	128.9	125.5
87.5°	29.4	31.1	27.1	38.4	42.4	36.2	41.3	39.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)