

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: P837865

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-3HI-30-120-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: P837865
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-LD4-3HI-30-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

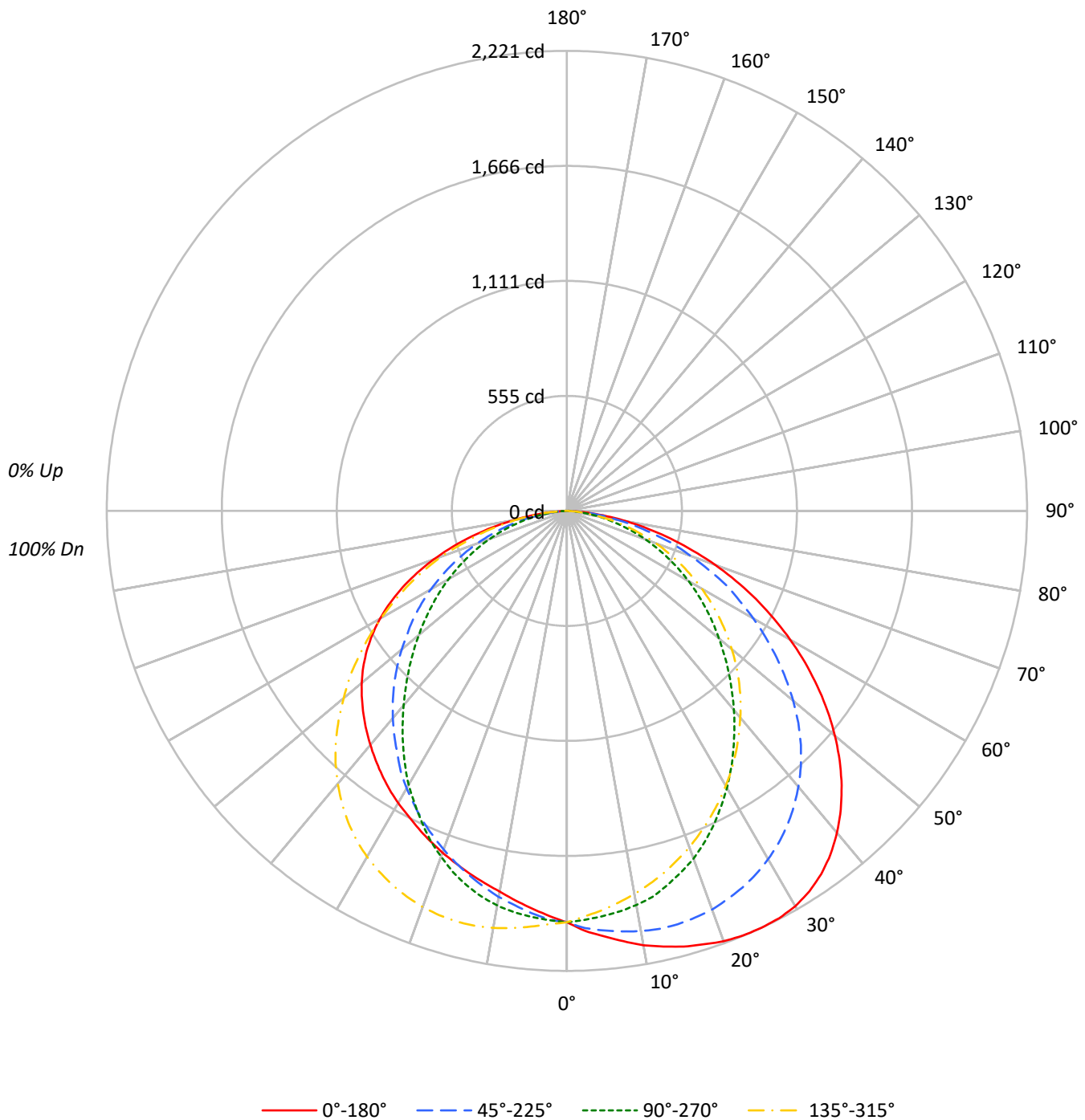
Lumens per Lamp: N/A
Luminaire Lumens: 5826.6 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 66
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°	5344	5344	5344	5344
5°	5570	5306	5206	5315
10°	5818	5279	5100	5286
15°	6067	5211	5050	5213
20°	6332	5117	5028	5088
25°	6594	4974	5027	4923
30°	6849	4801	5061	4747
35°	7031	4604	5112	4530
40°	7125	4405	5183	4306
45°	7138	4205	5284	4099
50°	7071	4013	5413	3906
55°	6924	3834	5534	3727
60°	6707	3648	5607	3553
65°	6407	3433	5578	3354
70°	5985	3182	5380	3124
75°	5385	2837	4937	2823
80°	4565	2376	4150	2413
85°	3174	1575	2631	1615

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.6	3.2
10°-20°	546.0	9.4
20°-30°	836.8	14.4
30°-40°	1017.5	17.5
40°-50°	1057.7	18.2
50°-60°	955.5	16.4
60°-70°	726.4	12.5
70°-80°	405.0	7.0
80°-90°	93.2	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°	1571.4	27.0
0°-40°	2588.9	44.4
0°-60°	4602.1	79.0
0°-90°	5826.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5826.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1986	1986	1986	1986	1986	
5°	2062	1964	1927	1968	2062	199
15°	2178	1871	1813	1871	2178	617
25°	2221	1675	1693	1658	2221	1026
35°	2140	1401	1556	1379	2140	1337
45°	1876	1105	1388	1077	1876	1444
55°	1476	817	1180	794	1476	1318
65°	1006	539	876	527	1006	994
75°	518	273	475	272	518	550
85°	103	51	85	52	103	129
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°	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0
2.5°	2030.0	2000.4	2000.8	2026.8	2006.8	2016.6	1988.8	1999.4	1996.2	1998.5	1975.8
5°	2062.0	2030.0	2029.5	2051.8	2029.5	2033.7	1998.5	2005.5	1995.3	1988.8	1964.2
7.5°	2095.8	2063.8	2060.6	2080.0	2050.9	2047.6	2008.7	2008.7	1990.2	1974.0	1950.8
10°	2129.1	2096.3	2092.1	2106.9	2070.8	2060.1	2012.9	2005.5	1980.9	1956.8	1931.8
12.5°	2154.2	2120.8	2117.6	2126.8	2086.1	2066.6	2012.9	1998.5	1962.4	1928.6	1909.1
15°	2177.8	2143.5	2134.7	2139.3	2092.5	2066.6	2006.4	1984.1	1937.8	1893.3	1870.6
17.5°	2194.5	2161.6	2152.8	2152.3	2095.8	2058.7	1992.5	1961.9	1906.3	1852.6	1829.9
20°	2211.1	2178.3	2167.1	2158.8	2094.9	2048.1	1972.1	1930.9	1866.0	1805.8	1786.8
22.5°	2219.5	2185.7	2173.6	2161.1	2088.8	2028.6	1947.1	1894.7	1820.6	1748.8	1733.1
25°	2220.9	2186.1	2173.2	2155.1	2076.8	2005.5	1914.7	1851.2	1768.3	1688.6	1675.2
27.5°	2217.2	2179.2	2166.2	2144.4	2058.7	1977.2	1876.2	1801.6	1712.7	1624.7	1610.3
30°	2204.2	2165.7	2153.2	2125.0	2033.3	1942.5	1834.0	1746.5	1651.1	1557.5	1545.0
32.5°	2178.3	2140.7	2130.5	2102.3	2005.5	1902.1	1784.9	1687.2	1583.0	1493.6	1475.0
35°	2140.3	2102.7	2096.3	2066.6	1966.5	1854.0	1731.2	1622.3	1510.7	1419.4	1401.4
37.5°	2090.7	2059.2	2049.5	2020.3	1920.7	1799.3	1669.6	1551.9	1437.0	1338.8	1327.7
40°	2028.2	1998.5	1991.1	1965.2	1867.4	1738.6	1602.9	1479.2	1361.1	1269.8	1254.0
42.5°	1956.8	1929.0	1924.8	1898.0	1801.6	1671.4	1530.6	1403.7	1281.8	1193.8	1178.1
45°	1875.7	1848.9	1847.9	1822.5	1729.8	1596.9	1454.6	1327.2	1204.5	1113.2	1104.9
47.5°	1786.3	1762.2	1762.2	1738.6	1649.7	1514.9	1376.3	1247.6	1126.7	1046.0	1031.2
50°	1689.0	1666.3	1659.4	1647.8	1561.2	1425.5	1293.9	1169.7	1049.7	972.8	958.5
52.5°	1585.3	1565.8	1570.5	1549.1	1465.3	1332.3	1210.5	1082.2	972.4	902.4	888.1
55°	1475.9	1448.2	1452.3	1444.4	1365.2	1236.4	1116.9	1009.9	896.4	830.6	817.2
57.5°	1362.4	1326.3	1341.1	1336.5	1258.7	1138.2	1031.2	927.9	820.9	760.2	747.2
60°	1246.2	1211.4	1226.7	1222.5	1149.3	1040.0	942.7	846.8	745.8	690.7	677.8
62.5°	1126.7	1094.7	1108.6	1105.3	1038.2	939.5	854.7	766.7	670.3	620.8	608.7
65°	1006.2	975.6	988.1	985.8	923.7	848.7	764.4	683.8	594.4	551.3	539.2
67.5°	883.0	854.7	866.3	866.3	809.3	737.5	673.6	599.9	519.8	482.7	471.6
70°	760.7	734.3	744.5	743.5	695.4	637.0	581.9	516.1	444.3	413.7	404.4
72.5°	637.4	614.3	623.5	622.6	582.3	544.8	490.1	433.1	370.6	346.1	337.7
75°	517.9	496.2	505.0	504.0	471.1	435.9	399.3	352.1	298.3	281.2	272.9
77.5°	404.0	381.7	389.1	389.1	365.0	339.6	310.4	273.8	235.8	217.3	211.2
80°	294.6	284.0	280.3	280.7	264.5	247.8	233.0	197.8	170.0	157.5	153.3
82.5°	193.6	184.8	181.1	182.1	172.8	162.6	153.3	128.8	110.3	102.8	100.5
85°	102.8	96.4	93.1	95.4	93.6	88.0	83.4	66.7	55.1	52.3	51.0
87.5°	32.4	28.3	25.9	34.3	29.2	25.9	25.0	19.9	15.3	15.3	14.8
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°	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0
2.5°	1983.2	1983.2	1965.2	1961.0	1959.1	1961.4	1943.4	1940.1	1966.1	1957.3	1937.4
5°	1967.5	1966.5	1941.1	1936.4	1936.4	1933.7	1913.3	1908.6	1934.6	1927.2	1905.4
7.5°	1948.0	1945.2	1915.1	1911.9	1907.2	1905.4	1882.7	1879.4	1901.7	1897.1	1876.7
10°	1924.4	1921.6	1885.9	1883.6	1878.5	1874.8	1853.5	1851.2	1873.9	1866.5	1850.3
12.5°	1893.3	1888.3	1851.7	1849.3	1845.2	1843.8	1822.9	1822.0	1847.0	1839.6	1822.5
15°	1852.6	1848.4	1807.6	1808.6	1809.0	1809.0	1792.4	1791.4	1816.0	1812.7	1794.2
17.5°	1807.6	1802.1	1763.2	1765.9	1769.2	1772.9	1759.9	1762.2	1788.2	1784.0	1767.3
20°	1756.7	1751.1	1713.1	1721.0	1728.0	1735.4	1727.0	1733.5	1757.6	1755.8	1743.3
22.5°	1699.7	1694.1	1658.9	1671.0	1682.6	1696.5	1692.8	1700.2	1725.6	1725.2	1714.1
25°	1630.2	1631.6	1600.6	1615.4	1634.8	1654.3	1655.7	1667.7	1696.0	1693.2	1683.0
27.5°	1565.4	1567.2	1534.3	1559.3	1585.3	1610.3	1616.3	1633.0	1661.7	1659.4	1650.6
30°	1497.3	1499.6	1467.6	1501.9	1533.4	1564.0	1576.9	1599.6	1628.8	1628.8	1619.6
32.5°	1426.4	1430.5	1397.2	1443.1	1479.7	1515.3	1538.0	1561.7	1595.0	1594.1	1586.2
35°	1353.6	1358.3	1327.7	1386.1	1422.7	1466.2	1494.5	1526.0	1555.6	1556.1	1550.1
37.5°	1279.5	1285.1	1257.3	1321.2	1362.9	1414.3	1450.5	1482.0	1514.9	1516.7	1511.2
40°	1205.9	1211.9	1187.8	1249.4	1302.2	1359.7	1401.4	1438.4	1474.6	1475.5	1471.8
42.5°	1132.2	1138.7	1120.6	1180.9	1240.6	1302.2	1351.3	1393.5	1430.5	1432.9	1428.7
45°	1060.4	1066.0	1053.0	1118.8	1176.2	1243.4	1299.9	1347.6	1385.1	1388.4	1387.0
47.5°	989.1	994.2	982.6	1042.8	1109.0	1180.4	1245.7	1298.5	1338.4	1342.1	1341.1
50°	919.1	923.3	910.8	973.8	1039.6	1115.5	1183.6	1244.8	1289.3	1293.0	1292.5
52.5°	849.6	853.8	843.1	909.4	969.1	1049.3	1123.4	1189.7	1233.7	1239.2	1240.1
55°	782.4	784.3	776.0	839.4	897.3	981.2	1066.4	1130.8	1174.8	1179.5	1182.2
57.5°	715.3	715.7	708.8	769.5	825.1	910.8	1000.2	1067.8	1109.5	1114.1	1118.3
60°	648.6	648.1	640.2	699.1	752.3	837.1	930.2	997.4	1037.7	1041.9	1047.4
62.5°	582.3	580.9	574.0	628.2	678.2	762.1	855.6	920.5	958.9	961.7	969.1
65°	516.5	515.1	508.7	558.7	604.1	684.2	776.0	837.6	872.3	876.0	874.6
67.5°	451.7	448.9	443.8	488.7	530.0	604.1	692.1	750.9	779.7	782.9	791.7
70°	386.8	383.6	372.0	419.7	455.8	522.1	604.1	656.4	680.5	683.8	682.4
72.5°	322.9	319.6	307.1	351.2	381.7	439.6	512.8	556.4	577.2	580.0	580.0
75°	260.8	259.0	251.1	284.4	309.9	357.2	419.3	455.4	471.6	474.8	473.9
77.5°	201.1	199.7	191.8	220.5	240.4	275.6	325.7	353.9	366.0	369.7	377.6
80°	144.1	143.6	131.1	159.4	168.2	197.8	234.4	256.2	262.7	267.8	273.3
82.5°	92.2	92.7	80.1	104.2	107.9	126.9	149.6	163.1	167.7	171.9	176.0
85°	44.9	46.8	39.8	55.1	55.6	65.3	75.0	80.1	82.0	85.2	88.9
87.5°	11.6	13.4	7.4	15.8	13.9	18.1	20.8	22.2	21.8	24.1	25.5
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°	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0
2.5°	1943.8	1958.7	1951.3	1975.3	1984.6	1969.8	1995.7	1996.2	1977.7	1999.4	2011.5
5°	1913.7	1929.0	1924.4	1949.4	1961.0	1948.0	1979.5	1985.5	1967.5	1992.0	2011.5
7.5°	1883.2	1901.2	1895.2	1920.7	1934.6	1924.4	1958.2	1967.9	1954.0	1980.9	2006.8
10°	1856.7	1872.0	1865.6	1892.4	1904.5	1896.1	1929.5	1947.5	1934.6	1967.5	1998.5
12.5°	1830.8	1843.3	1835.9	1858.1	1869.7	1859.1	1899.8	1916.5	1907.2	1941.5	1981.4
15°	1797.5	1811.3	1801.2	1821.1	1829.9	1820.6	1854.0	1882.7	1871.1	1908.6	1952.6
17.5°	1772.0	1779.8	1765.9	1781.7	1786.8	1774.3	1808.1	1836.4	1828.0	1868.8	1919.8
20°	1743.7	1750.2	1730.7	1739.5	1739.1	1723.3	1754.4	1782.2	1776.6	1821.5	1879.4
22.5°	1712.2	1715.5	1692.8	1694.6	1693.7	1667.7	1695.5	1723.8	1721.5	1766.9	1831.7
25°	1678.9	1679.3	1650.1	1649.2	1639.0	1608.4	1633.0	1665.0	1658.0	1707.1	1775.2
27.5°	1646.0	1641.3	1606.1	1597.8	1581.6	1545.0	1566.7	1595.5	1591.3	1639.5	1715.0
30°	1610.8	1604.7	1561.7	1546.4	1522.7	1480.6	1498.6	1525.5	1527.8	1570.0	1649.2
32.5°	1577.4	1562.1	1514.4	1492.2	1462.5	1413.4	1423.1	1450.5	1454.2	1496.8	1578.3
35°	1534.3	1524.1	1465.3	1427.3	1398.1	1344.4	1354.6	1373.6	1379.1	1420.8	1503.7
37.5°	1493.6	1477.3	1414.8	1368.5	1330.9	1274.4	1277.2	1296.7	1302.2	1344.4	1426.4
40°	1451.4	1428.2	1361.1	1306.9	1263.8	1204.5	1201.2	1221.6	1225.8	1267.0	1341.1
42.5°	1406.5	1378.7	1303.2	1243.9	1194.3	1134.1	1127.6	1145.2	1149.8	1190.1	1262.8
45°	1361.1	1327.7	1243.9	1179.0	1124.8	1063.2	1056.7	1070.1	1077.1	1115.1	1185.0
47.5°	1312.9	1274.0	1182.7	1110.4	1054.4	992.8	984.9	998.3	1003.9	1041.4	1107.7
50°	1262.4	1215.1	1119.7	1040.0	984.4	923.7	912.2	927.9	933.0	968.2	1033.1
52.5°	1206.8	1154.4	1052.5	969.1	913.6	855.6	841.7	857.0	863.1	897.3	957.1
55°	1148.0	1091.4	984.9	903.8	843.6	787.1	775.5	781.5	794.5	826.9	882.5
57.5°	1081.7	1025.7	913.6	831.1	773.2	719.0	709.3	714.8	726.9	758.4	808.4
60°	1011.3	952.0	840.8	758.4	702.3	650.9	642.1	647.2	660.1	688.9	735.2
62.5°	941.8	875.1	765.8	683.8	632.8	585.1	582.8	580.9	593.0	620.8	661.5
65°	857.5	793.6	687.5	609.7	563.3	520.2	511.0	515.1	526.7	552.2	594.8
67.5°	767.2	709.3	607.3	535.5	494.3	455.8	448.0	449.8	461.9	484.1	521.2
70°	671.3	620.3	525.3	460.9	426.2	390.1	385.0	385.4	397.0	416.5	448.9
72.5°	570.7	524.9	442.4	387.3	358.6	332.6	328.0	322.4	333.1	349.8	377.6
75°	468.4	428.1	360.0	315.0	292.3	270.5	266.4	260.8	271.5	285.8	307.6
77.5°	365.0	332.6	279.8	245.1	227.5	211.2	207.5	201.5	212.2	222.8	240.0
80°	264.1	240.4	208.9	172.3	166.3	155.7	151.9	145.5	155.7	162.6	175.6
82.5°	170.5	154.7	136.7	111.2	110.3	102.4	100.5	93.1	102.4	106.5	116.3
85°	86.2	78.8	74.1	56.5	58.4	53.3	52.8	44.9	52.3	54.2	59.8
87.5°	24.6	25.9	23.2	13.9	17.6	16.7	16.7	12.0	16.7	16.7	19.0
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: P837865

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-3HI-30-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0
2.5°	1987.9	1995.7	1997.6	1997.1	2002.2	2030.0	2020.7	2030.0
5°	1992.5	2010.1	2014.7	2021.2	2029.5	2061.0	2050.9	2062.0
7.5°	1995.3	2021.7	2031.9	2044.4	2057.8	2093.0	2084.7	2095.8
10°	1995.3	2029.5	2044.4	2065.2	2083.3	2124.1	2116.2	2129.1
12.5°	1986.9	2030.9	2051.8	2081.0	2104.1	2148.1	2144.9	2154.2
15°	1969.8	2024.0	2052.7	2090.2	2119.0	2168.1	2166.7	2177.8
17.5°	1946.6	2011.9	2046.7	2093.9	2130.1	2185.2	2188.4	2194.5
20°	1917.4	1989.2	2034.6	2092.5	2137.9	2198.6	2202.8	2211.1
22.5°	1879.0	1961.9	2016.6	2086.5	2138.9	2204.2	2211.6	2219.5
25°	1833.6	1929.0	1992.9	2074.9	2134.2	2203.7	2213.9	2220.9
27.5°	1781.7	1886.4	1962.8	2056.4	2121.3	2196.3	2208.8	2217.2
30°	1721.5	1841.0	1928.6	2032.3	2103.7	2182.4	2195.9	2204.2
32.5°	1659.4	1791.0	1887.8	2001.3	2078.2	2160.2	2171.8	2178.3
35°	1591.8	1730.3	1838.7	1961.4	2045.3	2124.5	2133.3	2140.3
37.5°	1518.1	1664.5	1782.6	1916.5	1999.0	2074.9	2082.8	2090.7
40°	1442.1	1595.5	1719.6	1861.4	1943.8	2014.3	2022.6	2028.2
42.5°	1365.7	1519.0	1652.5	1796.5	1878.5	1946.2	1951.3	1956.8
45°	1288.3	1439.8	1576.9	1724.7	1805.8	1869.3	1871.1	1875.7
47.5°	1209.6	1357.8	1494.0	1642.7	1722.9	1780.8	1782.6	1786.3
50°	1130.4	1275.8	1405.5	1554.2	1632.5	1693.7	1685.3	1689.0
52.5°	1052.5	1189.7	1322.1	1458.8	1536.2	1590.4	1592.7	1585.3
55°	976.1	1105.3	1227.2	1358.7	1432.4	1474.6	1473.2	1475.9
57.5°	898.7	1020.1	1131.7	1252.2	1324.0	1363.8	1372.2	1362.4
60°	820.0	933.9	1034.0	1142.9	1212.4	1245.7	1255.4	1246.2
62.5°	741.7	846.4	937.2	1032.1	1096.5	1137.8	1136.8	1126.7
65°	663.4	758.4	839.4	920.0	976.1	1017.3	1015.5	1006.2
67.5°	591.1	669.4	742.1	807.5	856.1	884.4	894.1	883.0
70°	511.4	579.1	643.0	695.4	735.7	761.1	770.4	760.7
72.5°	431.8	489.2	534.1	584.6	615.7	637.0	646.7	637.4
75°	353.0	400.3	436.9	476.2	498.0	516.1	527.2	517.9
77.5°	276.6	313.2	342.3	371.1	396.1	400.3	410.0	404.0
80°	203.8	230.2	251.6	270.5	288.6	290.5	298.3	294.6
82.5°	135.7	153.3	158.9	178.8	190.4	188.5	196.4	193.6
85°	71.8	82.5	92.2	98.2	104.7	98.7	105.6	102.8
87.5°	24.1	25.5	22.2	31.5	34.7	29.6	33.8	32.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)