

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



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: P838029

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-4STD-50-120-EDD-90**

Issue Date: 5/21/2024



Test Information

Test Method: LM-79-08
Report Number: P838029
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-LD4-4STD-50-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and RFI grid
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

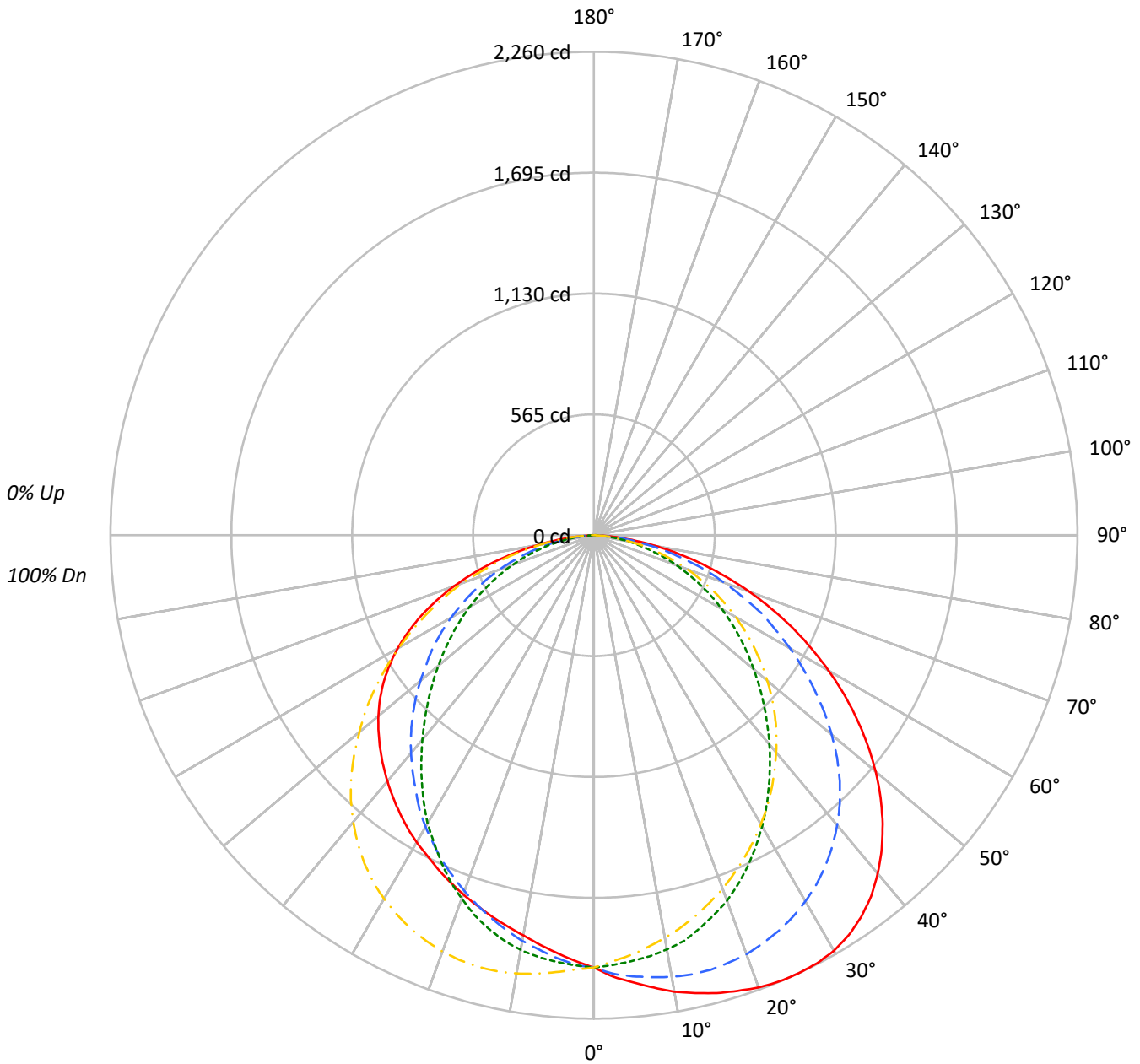
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5929.4 lumens
Efficiency: N/A
Efficacy: 89.0 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): 66.6
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



— 0°-180° - - 45°-225° - · - · 90°-270° - · - · 135°-315°

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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	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°	5438	5438	5438	5438
5°	5668	5400	5297	5408
10°	5920	5372	5190	5379
15°	6174	5303	5139	5305
20°	6444	5207	5117	5177
25°	6710	5062	5116	5010
30°	6970	4885	5150	4831
35°	7155	4685	5202	4610
40°	7250	4483	5275	4382
45°	7264	4279	5377	4171
50°	7196	4083	5508	3975
55°	7047	3902	5631	3793
60°	6825	3712	5706	3616
65°	6520	3494	5677	3413
70°	6091	3238	5474	3179
75°	5480	2887	5024	2873
80°	4646	2417	4223	2455
85°	3233	1602	2677	1646



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.9	3.2
10°-20°	555.6	9.4
20°-30°	851.5	14.4
30°-40°	1035.4	17.5
40°-50°	1076.4	18.2
50°-60°	972.3	16.4
60°-70°	739.2	12.5
70°-80°	412.1	7.0
80°-90°	94.9	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°	1599.1	27.0
0°-40°	2634.5	44.4
0°-60°	4683.2	79.0
0°-90°	5929.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5929.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2021	2021	2021	2021	2021	
5°	2098	1999	1961	2002	2098	202
15°	2216	1904	1845	1904	2216	628
25°	2260	1705	1723	1687	2260	1044
35°	2178	1426	1584	1403	2178	1360
45°	1909	1124	1413	1096	1909	1470
55°	1502	832	1200	808	1502	1341
65°	1024	549	892	536	1024	1012
75°	527	278	483	276	527	560
85°	105	52	87	53	105	132
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°	2021.0	2021.0	2021.0	2021.0	2021.0	2021.0	2021.0	2021.0	2021.0	2021.0	2021.0
2.5°	2065.8	2035.6	2036.1	2062.5	2042.2	2052.1	2023.8	2034.7	2031.4	2033.7	2010.6
5°	2098.3	2065.8	2065.3	2088.0	2065.3	2069.6	2033.7	2040.8	2030.4	2023.8	1998.9
7.5°	2132.7	2100.2	2096.9	2116.7	2087.0	2083.7	2044.1	2044.1	2025.3	2008.8	1985.2
10°	2166.7	2133.2	2129.0	2144.1	2107.3	2096.4	2048.4	2040.8	2015.8	1991.3	1965.9
12.5°	2192.1	2158.2	2154.9	2164.3	2122.8	2103.0	2048.4	2033.7	1997.0	1962.6	1942.8
15°	2216.2	2181.3	2172.3	2177.1	2129.4	2103.0	2041.8	2019.1	1972.0	1926.7	1903.6
17.5°	2233.2	2199.7	2190.7	2190.3	2132.7	2095.0	2027.6	1996.5	1939.9	1885.2	1862.1
20°	2250.1	2216.7	2205.3	2196.9	2131.8	2084.2	2006.9	1964.9	1898.9	1837.6	1818.3
22.5°	2258.6	2224.2	2211.9	2199.2	2125.7	2064.4	1981.4	1928.1	1852.7	1779.6	1763.6
25°	2260.0	2224.7	2211.5	2193.1	2113.4	2040.8	1948.4	1883.8	1799.4	1718.4	1704.7
27.5°	2256.3	2217.6	2204.4	2182.2	2095.0	2012.1	1909.3	1833.4	1742.9	1653.3	1638.7
30°	2243.1	2203.9	2191.2	2162.4	2069.1	1976.7	1866.4	1777.3	1680.2	1584.9	1572.2
32.5°	2216.7	2178.5	2168.1	2139.3	2040.8	1935.7	1816.4	1716.9	1610.9	1519.9	1501.0
35°	2178.0	2139.8	2133.2	2103.0	2001.2	1886.7	1761.7	1650.9	1537.3	1444.5	1426.1
37.5°	2127.6	2095.5	2085.6	2055.9	1954.5	1831.0	1699.0	1579.3	1462.4	1362.4	1351.1
40°	2063.9	2033.7	2026.2	1999.8	1900.3	1769.3	1631.1	1505.3	1385.1	1292.2	1276.2
42.5°	1991.3	1963.0	1958.8	1931.4	1833.4	1700.9	1557.6	1428.4	1304.4	1214.9	1198.8
45°	1908.8	1881.5	1880.5	1854.6	1760.3	1625.0	1480.3	1350.6	1225.7	1132.8	1124.4
47.5°	1817.8	1793.3	1793.3	1769.3	1678.8	1541.6	1400.6	1269.6	1146.5	1064.5	1049.4
50°	1718.8	1695.7	1688.7	1676.9	1588.7	1450.6	1316.7	1190.4	1068.3	990.0	975.4
52.5°	1613.2	1593.4	1598.1	1576.5	1491.1	1355.8	1231.8	1101.3	989.5	918.3	903.7
55°	1502.0	1473.7	1477.9	1469.9	1389.3	1258.2	1136.6	1027.7	912.2	845.3	831.6
57.5°	1386.5	1349.7	1364.8	1360.1	1280.9	1158.3	1049.4	944.3	835.4	773.6	760.4
60°	1268.1	1232.8	1248.3	1244.1	1169.6	1058.4	959.4	861.8	759.0	702.9	689.7
62.5°	1146.5	1114.0	1128.1	1124.8	1056.5	956.1	869.8	780.2	682.2	631.7	619.5
65°	1023.9	992.8	1005.6	1003.2	940.0	863.7	777.9	695.8	604.8	561.0	548.7
67.5°	898.5	869.8	881.6	881.6	823.6	750.5	685.5	610.5	528.9	491.2	479.9
70°	774.1	747.2	757.6	756.6	707.6	648.2	592.1	525.2	452.1	421.0	411.6
72.5°	648.7	625.1	634.5	633.6	592.6	554.4	498.8	440.8	377.1	352.2	343.7
75°	527.1	504.9	513.9	512.9	479.4	443.6	406.4	358.3	303.6	286.2	277.7
77.5°	411.1	388.5	396.0	396.0	371.5	345.6	315.9	278.6	240.0	221.1	215.0
80°	299.8	289.0	285.2	285.7	269.2	252.2	237.1	201.3	173.0	160.3	156.0
82.5°	197.1	188.1	184.3	185.3	175.8	165.5	156.0	131.1	112.2	104.7	102.3
85°	104.7	98.1	94.8	97.1	95.2	89.6	84.9	67.9	56.1	53.3	51.9
87.5°	33.0	28.8	26.4	34.9	29.7	26.4	25.5	20.3	15.6	15.6	15.1
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°	2021.0	2021.0	2021.0	2021.0	2021.0	2021.0	2021.0	2021.0	2021.0	2021.0	2021.0
2.5°	2018.2	2018.2	1999.8	1995.6	1993.7	1996.0	1977.6	1974.3	2000.7	1991.8	1971.5
5°	2002.2	2001.2	1975.3	1970.6	1970.6	1967.7	1947.0	1942.3	1968.7	1961.1	1939.0
7.5°	1982.4	1979.5	1948.9	1945.6	1940.9	1939.0	1915.9	1912.6	1935.2	1930.5	1909.8
10°	1958.3	1955.5	1919.2	1916.8	1911.6	1907.9	1886.2	1883.8	1906.9	1899.4	1882.9
12.5°	1926.7	1921.5	1884.3	1881.9	1877.7	1876.3	1855.1	1854.1	1879.6	1872.0	1854.6
15°	1885.2	1881.0	1839.5	1840.5	1840.9	1840.9	1824.0	1823.0	1848.0	1844.7	1825.8
17.5°	1839.5	1833.9	1794.3	1797.1	1800.4	1804.2	1791.0	1793.3	1819.7	1815.5	1798.5
20°	1787.7	1782.0	1743.3	1751.4	1758.4	1766.0	1757.5	1764.1	1788.6	1786.7	1774.0
22.5°	1729.7	1724.0	1688.2	1700.4	1712.2	1726.4	1722.6	1730.1	1756.1	1755.6	1744.3
25°	1659.0	1660.4	1628.8	1643.9	1663.7	1683.5	1684.9	1697.1	1725.9	1723.1	1712.7
27.5°	1593.0	1594.8	1561.4	1586.8	1613.2	1638.7	1644.8	1661.8	1691.0	1688.7	1679.7
30°	1523.7	1526.0	1493.5	1528.4	1560.4	1591.5	1604.7	1627.8	1657.5	1657.5	1648.1
32.5°	1451.5	1455.8	1421.8	1468.5	1505.7	1542.0	1565.1	1589.2	1623.1	1622.2	1614.2
35°	1377.5	1382.2	1351.1	1410.5	1447.8	1492.1	1520.8	1552.9	1583.1	1583.5	1577.4
37.5°	1302.1	1307.7	1279.5	1344.5	1386.9	1439.3	1476.0	1508.1	1541.6	1543.5	1537.8
40°	1227.1	1233.3	1208.7	1271.4	1325.2	1383.6	1426.1	1463.8	1500.6	1501.5	1497.7
42.5°	1152.2	1158.8	1140.4	1201.7	1262.5	1325.2	1375.2	1418.1	1455.8	1458.1	1453.9
45°	1079.1	1084.8	1071.6	1138.5	1197.0	1265.3	1322.8	1371.4	1409.6	1412.9	1411.5
47.5°	1006.5	1011.7	999.9	1061.2	1128.6	1201.2	1267.7	1321.4	1362.0	1365.7	1364.8
50°	935.3	939.6	926.8	990.9	1057.9	1135.2	1204.5	1266.7	1312.0	1315.8	1315.3
52.5°	864.6	868.8	858.0	925.4	986.2	1067.8	1143.2	1210.6	1255.4	1261.1	1262.0
55°	796.2	798.1	789.6	854.2	913.2	998.5	1085.2	1150.8	1195.5	1200.3	1203.1
57.5°	727.9	728.4	721.3	783.0	839.6	926.8	1017.8	1086.6	1129.1	1133.8	1138.0
60°	660.0	659.5	651.5	711.4	765.6	851.9	946.6	1015.0	1056.0	1060.2	1065.9
62.5°	592.6	591.2	584.1	639.3	690.2	775.5	870.7	936.7	975.9	978.7	986.2
65°	525.6	524.2	517.6	568.5	614.7	696.3	789.6	852.3	887.7	891.5	890.1
67.5°	459.6	456.8	451.6	497.4	539.3	614.7	704.3	764.2	793.4	796.7	805.7
70°	393.6	390.3	378.6	427.1	463.9	531.3	614.7	668.0	692.5	695.8	694.4
72.5°	328.6	325.3	312.6	357.3	388.5	447.4	521.9	566.2	587.4	590.2	590.2
75°	265.4	263.5	255.5	289.5	315.4	363.5	426.6	463.4	479.9	483.2	482.3
77.5°	204.6	203.2	195.2	224.4	244.7	280.5	331.4	360.2	372.4	376.2	384.2
80°	146.6	146.1	133.4	162.2	171.1	201.3	238.5	260.7	267.3	272.5	278.1
82.5°	93.8	94.3	81.6	106.1	109.8	129.2	152.3	165.9	170.7	174.9	179.1
85°	45.7	47.6	40.5	56.1	56.6	66.5	76.4	81.6	83.4	86.7	90.5
87.5°	11.8	13.7	7.5	16.0	14.1	18.4	21.2	22.6	22.2	24.5	25.9
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°	2021.0	2021.0	2021.0	2021.0	2021.0	2021.0	2021.0	2021.0	2021.0	2021.0	2021.0
2.5°	1978.1	1993.2	1985.7	2010.2	2019.6	2004.5	2030.9	2031.4	2012.5	2034.7	2046.9
5°	1947.5	1963.0	1958.3	1983.8	1995.6	1982.4	2014.4	2020.5	2002.2	2027.1	2046.9
7.5°	1916.4	1934.7	1928.6	1954.5	1968.7	1958.3	1992.7	2002.6	1988.5	2015.8	2042.2
10°	1889.5	1905.0	1898.4	1925.8	1938.0	1929.6	1963.5	1981.9	1968.7	2002.2	2033.7
12.5°	1863.1	1875.8	1868.3	1890.9	1902.7	1891.8	1933.3	1950.3	1940.9	1975.8	2016.3
15°	1829.1	1843.3	1832.9	1853.2	1862.1	1852.7	1886.7	1915.9	1904.1	1942.3	1987.1
17.5°	1803.2	1811.2	1797.1	1813.1	1818.3	1805.6	1840.0	1868.7	1860.3	1901.7	1953.6
20°	1774.5	1781.1	1761.3	1770.2	1769.7	1753.7	1785.3	1813.6	1807.9	1853.7	1912.6
22.5°	1742.4	1745.7	1722.6	1724.5	1723.5	1697.1	1725.4	1754.2	1751.8	1798.0	1864.0
25°	1708.5	1708.9	1679.2	1678.3	1667.9	1636.8	1661.8	1694.3	1687.2	1737.2	1806.5
27.5°	1675.0	1670.3	1634.4	1626.0	1609.5	1572.2	1594.4	1623.6	1619.4	1668.4	1745.2
30°	1639.2	1633.0	1589.2	1573.6	1549.6	1506.7	1525.1	1552.4	1554.8	1597.7	1678.3
32.5°	1605.2	1589.7	1541.1	1518.5	1488.3	1438.3	1448.2	1476.0	1479.8	1523.2	1606.2
35°	1561.4	1551.0	1491.1	1452.5	1422.8	1368.1	1378.5	1397.8	1403.4	1445.9	1530.3
37.5°	1519.9	1503.4	1439.7	1392.6	1354.4	1296.9	1299.7	1319.5	1325.2	1368.1	1451.5
40°	1477.0	1453.4	1385.1	1329.9	1286.1	1225.7	1222.4	1243.2	1247.4	1289.4	1364.8
42.5°	1431.3	1403.0	1326.1	1265.8	1215.3	1154.1	1147.5	1165.4	1170.1	1211.1	1285.1
45°	1385.1	1351.1	1265.8	1199.8	1144.6	1081.9	1075.3	1089.0	1096.1	1134.7	1205.9
47.5°	1336.0	1296.4	1203.6	1130.0	1073.0	1010.3	1002.3	1015.9	1021.6	1059.8	1127.2
50°	1284.6	1236.6	1139.4	1058.4	1001.8	940.0	928.2	944.3	949.5	985.3	1051.3
52.5°	1228.1	1174.8	1071.1	986.2	929.7	870.7	856.6	872.1	878.3	913.2	974.0
55°	1168.2	1110.7	1002.3	919.8	858.5	801.0	789.2	795.3	808.5	841.5	898.1
57.5°	1100.8	1043.7	929.7	845.7	786.8	731.7	721.8	727.4	739.7	771.7	822.6
60°	1029.1	968.8	855.6	771.7	714.7	662.4	653.4	658.6	671.8	701.0	748.2
62.5°	958.4	890.5	779.3	695.8	644.0	595.4	593.1	591.2	603.4	631.7	673.2
65°	872.6	807.6	699.6	620.4	573.3	529.4	520.0	524.2	536.0	561.9	605.3
67.5°	780.7	721.8	618.0	545.0	503.0	463.9	455.9	457.8	470.0	492.6	530.4
70°	683.1	631.2	534.6	469.1	433.7	396.9	391.8	392.2	404.0	423.8	456.8
72.5°	580.8	534.1	450.2	394.1	364.9	338.5	333.8	328.1	339.0	355.9	384.2
75°	476.6	435.6	366.3	320.6	297.5	275.3	271.1	265.4	276.3	290.9	313.0
77.5°	371.5	338.5	284.7	249.4	231.5	215.0	211.2	205.1	215.9	226.8	244.2
80°	268.7	244.7	212.6	175.4	169.2	158.4	154.6	148.0	158.4	165.5	178.7
82.5°	173.5	157.5	139.1	113.1	112.2	104.2	102.3	94.8	104.2	108.4	118.3
85°	87.7	80.1	75.4	57.5	59.4	54.2	53.7	45.7	53.3	55.2	60.8
87.5°	25.0	26.4	23.6	14.1	17.9	17.0	17.0	12.3	17.0	17.0	19.3
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: P838029

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-4STD-50-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2021.0	2021.0	2021.0	2021.0	2021.0	2021.0	2021.0	2021.0
2.5°	2022.9	2030.9	2032.8	2032.3	2037.5	2065.8	2056.4	2065.8
5°	2027.6	2045.5	2050.2	2056.8	2065.3	2097.4	2087.0	2098.3
7.5°	2030.4	2057.3	2067.7	2080.4	2094.1	2129.9	2121.4	2132.7
10°	2030.4	2065.3	2080.4	2101.6	2120.0	2161.5	2153.5	2166.7
12.5°	2022.0	2066.7	2088.0	2117.7	2141.2	2186.0	2182.7	2192.1
15°	2004.5	2059.7	2088.9	2127.1	2156.3	2206.3	2204.9	2216.2
17.5°	1980.9	2047.4	2082.8	2130.9	2167.6	2223.7	2227.0	2233.2
20°	1951.2	2024.3	2070.5	2129.4	2175.6	2237.4	2241.6	2250.1
22.5°	1912.1	1996.5	2052.1	2123.3	2176.6	2243.1	2250.6	2258.6
25°	1865.9	1963.0	2028.1	2111.5	2171.9	2242.6	2253.0	2260.0
27.5°	1813.1	1919.7	1997.4	2092.7	2158.7	2235.0	2247.8	2256.3
30°	1751.8	1873.5	1962.6	2068.2	2140.8	2220.9	2234.6	2243.1
32.5°	1688.7	1822.5	1921.1	2036.6	2114.8	2198.3	2210.1	2216.7
35°	1619.8	1760.8	1871.1	1996.0	2081.4	2162.0	2170.9	2178.0
37.5°	1544.9	1693.8	1814.1	1950.3	2034.2	2111.5	2119.5	2127.6
40°	1467.6	1623.6	1749.9	1894.2	1978.1	2049.8	2058.3	2063.9
42.5°	1389.8	1545.8	1681.6	1828.2	1911.6	1980.5	1985.7	1991.3
45°	1311.0	1465.2	1604.7	1755.1	1837.6	1902.2	1904.1	1908.8
47.5°	1230.9	1381.8	1520.4	1671.7	1753.2	1812.2	1814.1	1817.8
50°	1150.3	1298.3	1430.3	1581.6	1661.3	1723.5	1715.1	1718.8
52.5°	1071.1	1210.6	1345.5	1484.5	1563.3	1618.4	1620.8	1613.2
55°	993.3	1124.8	1248.8	1382.7	1457.7	1500.6	1499.1	1502.0
57.5°	914.6	1038.1	1151.7	1274.3	1347.3	1387.9	1396.4	1386.5
60°	834.4	950.4	1052.2	1163.0	1233.7	1267.7	1277.6	1268.1
62.5°	754.8	861.3	953.7	1050.3	1115.9	1157.8	1156.9	1146.5
65°	675.1	771.7	854.2	936.3	993.3	1035.3	1033.4	1023.9
67.5°	601.5	681.2	755.2	821.7	871.2	900.0	909.9	898.5
70°	520.5	589.3	654.3	707.6	748.6	774.6	784.0	774.1
72.5°	439.4	497.8	543.6	594.9	626.5	648.2	658.1	648.7
75°	359.2	407.3	444.6	484.6	506.8	525.2	536.5	527.1
77.5°	281.4	318.7	348.4	377.6	403.1	407.3	417.2	411.1
80°	207.4	234.3	256.0	275.3	293.7	295.6	303.6	299.8
82.5°	138.1	156.0	161.7	182.0	193.8	191.9	199.9	197.1
85°	73.1	83.9	93.8	99.9	106.5	100.4	107.5	104.7
87.5°	24.5	25.9	22.6	32.1	35.4	30.2	34.4	33.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)