

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: P837851

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-5LO-27-120-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: P837851
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-LD4-5LO-27-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

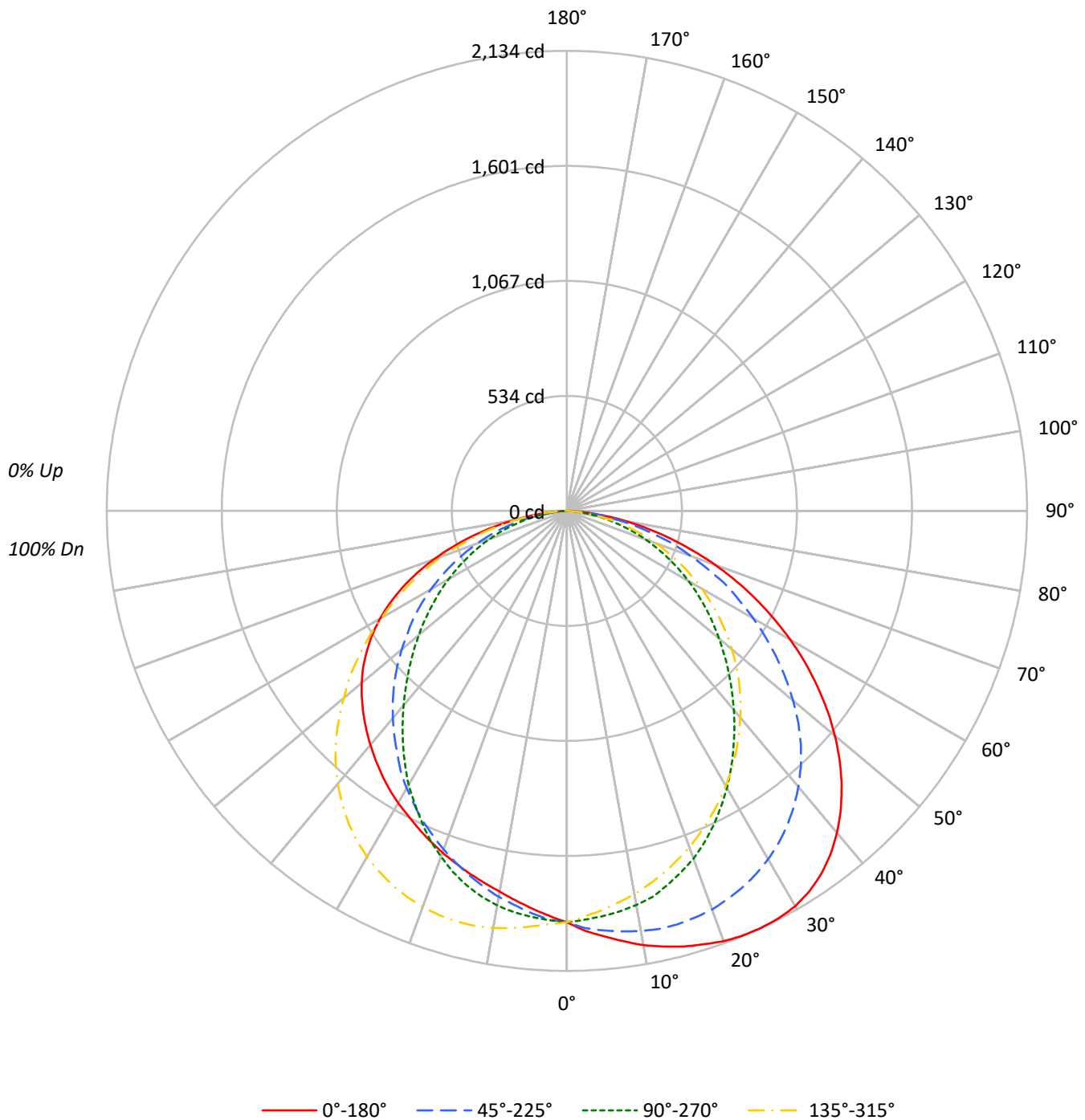
Lumens per Lamp: N/A
Luminaire Lumens: 5597.8 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 58.5
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°	5134	5134	5134	5134
5°	5351	5098	5001	5106
10°	5589	5071	4900	5079
15°	5829	5007	4852	5008
20°	6083	4916	4830	4888
25°	6335	4779	4830	4730
30°	6580	4612	4862	4561
35°	6755	4423	4911	4353
40°	6845	4232	4979	4137
45°	6858	4040	5076	3938
50°	6793	3855	5200	3753
55°	6653	3683	5316	3581
60°	6443	3504	5387	3413
65°	6155	3299	5359	3222
70°	5750	3057	5168	3001
75°	5174	2725	4743	2712
80°	4387	2283	3986	2317
85°	3051	1513	2529	1553

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.2	3.2
10°-20°	524.6	9.4
20°-30°	803.9	14.4
30°-40°	977.5	17.5
40°-50°	1016.2	18.2
50°-60°	917.9	16.4
60°-70°	697.9	12.5
70°-80°	389.1	7.0
80°-90°	89.6	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°	1509.6	27.0
0°-40°	2487.2	44.4
0°-60°	4421.3	79.0
0°-90°	5597.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5597.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1908	1908	1908	1908	1908	
5°	1981	1887	1852	1890	1981	191
15°	2092	1797	1742	1798	2092	593
25°	2134	1609	1627	1593	2134	985
35°	2056	1346	1495	1325	2056	1284
45°	1802	1062	1334	1035	1802	1387
55°	1418	785	1133	763	1418	1266
65°	967	518	842	506	967	955
75°	498	262	456	261	498	529
85°	99	49	82	50	99	124
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°	1908.0	1908.0	1908.0	1908.0	1908.0	1908.0	1908.0	1908.0	1908.0	1908.0	1908.0
2.5°	1950.3	1921.8	1922.2	1947.2	1928.0	1937.4	1910.7	1920.9	1917.8	1920.0	1898.2
5°	1981.0	1950.3	1949.8	1971.2	1949.8	1953.8	1920.0	1926.7	1916.9	1910.7	1887.1
7.5°	2013.5	1982.8	1979.6	1998.3	1970.3	1967.2	1929.8	1929.8	1912.0	1896.4	1874.2
10°	2045.5	2013.9	2009.9	2024.2	1989.4	1979.2	1933.8	1926.7	1903.1	1880.0	1855.9
12.5°	2069.6	2037.5	2034.4	2043.3	2004.1	1985.4	1933.8	1920.0	1885.3	1852.8	1834.1
15°	2092.3	2059.3	2050.9	2055.3	2010.4	1985.4	1927.6	1906.2	1861.7	1819.0	1797.2
17.5°	2108.3	2076.7	2068.2	2067.8	2013.5	1977.9	1914.2	1884.8	1831.4	1779.8	1758.0
20°	2124.3	2092.7	2082.0	2074.0	2012.6	1967.6	1894.6	1855.0	1792.7	1734.9	1716.6
22.5°	2132.3	2099.8	2088.2	2076.2	2006.8	1948.9	1870.6	1820.3	1749.1	1680.1	1665.0
25°	2133.6	2100.3	2087.8	2070.4	1995.2	1926.7	1839.5	1778.5	1698.8	1622.3	1609.4
27.5°	2130.1	2093.6	2081.1	2060.2	1977.9	1899.5	1802.5	1730.9	1645.4	1560.8	1547.0
30°	2117.6	2080.7	2068.7	2041.5	1953.4	1866.2	1762.0	1677.9	1586.2	1496.3	1484.3
32.5°	2092.7	2056.6	2046.9	2019.7	1926.7	1827.4	1714.8	1620.9	1520.8	1434.9	1417.1
35°	2056.2	2020.1	2013.9	1985.4	1889.3	1781.1	1663.2	1558.6	1451.4	1363.7	1346.3
37.5°	2008.6	1978.3	1969.0	1940.9	1845.2	1728.6	1604.0	1491.0	1380.6	1286.2	1275.6
40°	1948.5	1920.0	1912.9	1888.0	1794.1	1670.3	1539.9	1421.1	1307.6	1219.9	1204.8
42.5°	1880.0	1853.3	1849.2	1823.4	1730.9	1605.8	1470.5	1348.5	1231.5	1146.9	1131.8
45°	1802.1	1776.3	1775.4	1750.9	1661.9	1534.1	1397.5	1275.1	1157.2	1069.5	1061.5
47.5°	1716.2	1693.0	1693.0	1670.3	1584.9	1455.4	1322.3	1198.6	1082.4	1005.0	990.7
50°	1622.7	1600.9	1594.2	1583.1	1499.9	1369.5	1243.1	1123.8	1008.5	934.6	920.8
52.5°	1523.0	1504.3	1508.8	1488.3	1407.7	1280.0	1163.0	1039.7	934.2	867.0	853.2
55°	1418.0	1391.3	1395.3	1387.7	1311.6	1187.9	1073.1	970.2	861.2	798.0	785.1
57.5°	1308.9	1274.2	1288.5	1284.0	1209.2	1093.5	990.7	891.5	788.7	730.4	717.9
60°	1197.2	1163.8	1178.5	1174.5	1104.2	999.2	905.7	813.6	716.6	663.6	651.1
62.5°	1082.4	1051.7	1065.0	1061.9	997.4	902.6	821.1	736.6	644.0	596.4	584.8
65°	966.7	937.3	949.3	947.1	887.5	815.4	734.4	656.9	571.0	529.6	518.1
67.5°	848.3	821.1	832.3	832.3	777.5	708.5	647.1	576.4	499.4	463.8	453.1
70°	730.8	705.4	715.2	714.3	668.0	612.0	559.0	495.8	426.8	397.4	388.5
72.5°	612.4	590.2	599.1	598.2	559.4	523.4	470.9	416.1	356.1	332.5	324.5
75°	497.6	476.7	485.1	484.2	452.6	418.8	383.6	338.2	286.6	270.2	262.1
77.5°	388.1	366.7	373.9	373.9	350.7	326.2	298.2	263.0	226.5	208.7	202.9
80°	283.1	272.8	269.3	269.7	254.1	238.1	223.9	190.0	163.3	151.3	147.3
82.5°	186.0	177.6	174.0	174.9	166.0	156.2	147.3	123.7	105.9	98.8	96.6
85°	98.8	92.6	89.5	91.7	89.9	84.6	80.1	64.1	53.0	50.3	49.0
87.5°	31.2	27.1	24.9	32.9	28.0	24.9	24.0	19.1	14.7	14.7	14.2
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°	1908.0	1908.0	1908.0	1908.0	1908.0	1908.0	1908.0	1908.0	1908.0	1908.0	1908.0
2.5°	1905.3	1905.3	1888.0	1884.0	1882.2	1884.4	1867.0	1863.9	1888.9	1880.4	1861.3
5°	1890.2	1889.3	1864.8	1860.4	1860.4	1857.7	1838.1	1833.7	1858.6	1851.5	1830.6
7.5°	1871.5	1868.8	1839.9	1836.8	1832.3	1830.6	1808.7	1805.6	1827.0	1822.5	1803.0
10°	1848.8	1846.1	1811.9	1809.6	1804.7	1801.2	1780.7	1778.5	1800.3	1793.2	1777.6
12.5°	1819.0	1814.1	1778.9	1776.7	1772.7	1771.4	1751.3	1750.4	1774.5	1767.4	1750.9
15°	1779.8	1775.8	1736.6	1737.5	1738.0	1738.0	1722.0	1721.1	1744.7	1741.5	1723.7
17.5°	1736.6	1731.3	1693.9	1696.6	1699.7	1703.3	1690.8	1693.0	1718.0	1713.9	1697.9
20°	1687.7	1682.3	1645.8	1653.4	1660.1	1667.2	1659.2	1665.4	1688.6	1686.8	1674.8
22.5°	1632.9	1627.6	1593.8	1605.3	1616.5	1629.8	1626.3	1633.4	1657.9	1657.4	1646.7
25°	1566.2	1567.5	1537.7	1551.9	1570.6	1589.3	1590.7	1602.2	1629.4	1626.7	1616.9
27.5°	1503.9	1505.7	1474.1	1498.1	1523.0	1547.0	1552.8	1568.9	1596.4	1594.2	1585.8
30°	1438.4	1440.7	1410.0	1442.9	1473.2	1502.5	1515.0	1536.8	1564.8	1564.8	1555.9
32.5°	1370.4	1374.4	1342.3	1386.4	1421.5	1455.8	1477.6	1500.3	1532.4	1531.5	1523.9
35°	1300.5	1304.9	1275.6	1331.6	1366.8	1408.6	1435.8	1466.0	1494.5	1495.0	1489.2
37.5°	1229.3	1234.6	1207.9	1269.3	1309.4	1358.8	1393.5	1423.8	1455.4	1457.1	1451.8
40°	1158.5	1164.3	1141.1	1200.3	1251.1	1306.3	1346.3	1381.9	1416.6	1417.5	1414.0
42.5°	1087.7	1094.0	1076.6	1134.5	1191.9	1251.1	1298.3	1338.8	1374.4	1376.6	1372.6
45°	1018.8	1024.1	1011.6	1074.8	1130.0	1194.6	1248.9	1294.7	1330.7	1333.9	1332.5
47.5°	950.2	955.1	944.0	1001.8	1065.5	1134.0	1196.8	1247.5	1285.8	1289.4	1288.5
50°	883.0	887.0	875.0	935.5	998.7	1071.7	1137.1	1195.9	1238.6	1242.2	1241.7
52.5°	816.2	820.3	810.0	873.7	931.1	1008.1	1079.3	1142.9	1185.2	1190.5	1191.4
55°	751.7	753.5	745.5	806.5	862.1	942.6	1024.5	1086.4	1128.7	1133.1	1135.8
57.5°	687.2	687.6	680.9	739.3	792.7	875.0	960.9	1025.9	1065.9	1070.4	1074.4
60°	623.1	622.6	615.1	671.6	722.8	804.2	893.7	958.2	996.9	1001.0	1006.3
62.5°	559.4	558.1	551.4	603.5	651.6	732.1	822.0	884.3	921.3	924.0	931.1
65°	496.2	494.9	488.7	536.7	580.4	657.4	745.5	804.7	838.1	841.6	840.3
67.5°	433.9	431.3	426.4	469.5	509.2	580.4	664.9	721.5	749.0	752.2	760.6
70°	371.6	368.5	357.4	403.2	437.9	501.6	580.4	630.7	653.8	656.9	655.6
72.5°	310.2	307.1	295.1	337.4	366.7	422.4	492.7	534.5	554.6	557.2	557.2
75°	250.6	248.8	241.2	273.3	297.7	343.1	402.8	437.5	453.1	456.2	455.3
77.5°	193.2	191.8	184.3	211.9	231.0	264.8	312.9	340.0	351.6	355.2	362.7
80°	138.4	138.0	126.0	153.1	161.6	190.0	225.2	246.1	252.4	257.2	262.6
82.5°	88.6	89.0	77.0	100.1	103.7	121.9	143.8	156.7	161.1	165.1	169.1
85°	43.2	45.0	38.3	53.0	53.4	62.8	72.1	77.0	78.8	81.9	85.5
87.5°	11.1	12.9	7.1	15.1	13.4	17.4	20.0	21.4	20.9	23.1	24.5
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°	1908.0	1908.0	1908.0	1908.0	1908.0	1908.0	1908.0	1908.0	1908.0	1908.0	1908.0
2.5°	1867.5	1881.7	1874.6	1897.8	1906.7	1892.4	1917.3	1917.8	1900.0	1920.9	1932.5
5°	1838.6	1853.3	1848.8	1872.8	1884.0	1871.5	1901.8	1907.5	1890.2	1913.8	1932.5
7.5°	1809.2	1826.5	1820.8	1845.2	1858.6	1848.8	1881.3	1890.6	1877.3	1903.1	1928.0
10°	1783.8	1798.5	1792.3	1818.1	1829.7	1821.7	1853.7	1871.1	1858.6	1890.2	1920.0
12.5°	1758.9	1770.9	1763.8	1785.2	1796.3	1786.0	1825.2	1841.2	1832.3	1865.3	1903.5
15°	1726.9	1740.2	1730.4	1749.6	1758.0	1749.1	1781.1	1808.7	1797.6	1833.7	1875.9
17.5°	1702.4	1709.9	1696.6	1711.7	1716.6	1704.6	1737.1	1764.2	1756.2	1795.4	1844.3
20°	1675.2	1681.5	1662.8	1671.2	1670.8	1655.6	1685.5	1712.2	1706.8	1750.0	1805.6
22.5°	1645.0	1648.1	1626.3	1628.0	1627.2	1602.2	1628.9	1656.1	1653.9	1697.5	1759.8
25°	1612.9	1613.4	1585.3	1584.4	1574.6	1545.3	1568.9	1599.6	1592.9	1640.1	1705.5
27.5°	1581.3	1576.9	1543.0	1535.0	1519.5	1484.3	1505.2	1532.8	1528.8	1575.1	1647.6
30°	1547.5	1541.7	1500.3	1485.6	1462.9	1422.4	1439.8	1465.6	1467.8	1508.3	1584.4
32.5°	1515.4	1500.8	1454.9	1433.6	1405.1	1357.9	1367.2	1393.5	1397.1	1438.0	1516.3
35°	1474.1	1464.3	1407.7	1371.2	1343.2	1291.6	1301.4	1319.6	1325.0	1365.0	1444.7
37.5°	1434.9	1419.3	1359.2	1314.7	1278.7	1224.4	1227.0	1245.7	1251.1	1291.6	1370.4
40°	1394.4	1372.1	1307.6	1255.5	1214.1	1157.2	1154.1	1173.6	1177.6	1217.3	1288.5
42.5°	1351.2	1324.5	1252.0	1195.0	1147.4	1089.5	1083.3	1100.2	1104.7	1143.4	1213.2
45°	1307.6	1275.6	1195.0	1132.7	1080.6	1021.4	1015.2	1028.1	1034.8	1071.3	1138.5
47.5°	1261.3	1223.9	1136.3	1066.8	1013.0	953.8	946.2	959.1	964.5	1000.5	1064.2
50°	1212.8	1167.4	1075.7	999.2	945.8	887.5	876.3	891.5	896.4	930.2	992.5
52.5°	1159.4	1109.1	1011.2	931.1	877.7	822.0	808.7	823.4	829.2	862.1	919.5
55°	1102.9	1048.6	946.2	868.3	810.5	756.2	745.0	750.8	763.3	794.4	847.8
57.5°	1039.2	985.4	877.7	798.4	742.8	690.7	681.4	686.7	698.3	728.6	776.6
60°	971.6	914.6	807.8	728.6	674.7	625.3	616.9	621.8	634.2	661.8	706.3
62.5°	904.8	840.7	735.7	656.9	608.0	562.1	559.9	558.1	569.7	596.4	635.6
65°	823.8	762.4	660.5	585.7	541.2	499.8	490.9	494.9	506.0	530.5	571.5
67.5°	737.0	681.4	583.5	514.5	474.9	437.9	430.4	432.2	443.7	465.1	500.7
70°	644.9	595.9	504.7	442.8	409.5	374.7	369.8	370.3	381.4	400.1	431.3
72.5°	548.3	504.3	425.0	372.1	344.5	319.6	315.1	309.8	320.0	336.0	362.7
75°	450.0	411.2	345.8	302.6	280.8	259.9	255.9	250.6	260.8	274.6	295.5
77.5°	350.7	319.6	268.8	235.4	218.5	202.9	199.4	193.6	203.8	214.1	230.5
80°	253.7	231.0	200.7	165.6	159.8	149.5	146.0	139.8	149.5	156.2	168.7
82.5°	163.8	148.7	131.3	106.8	105.9	98.4	96.6	89.5	98.4	102.4	111.7
85°	82.8	75.7	71.2	54.3	56.1	51.2	50.7	43.2	50.3	52.1	57.4
87.5°	23.6	24.9	22.3	13.4	16.9	16.0	16.0	11.6	16.0	16.0	18.2
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: P837851

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-5LO-27-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1908.0	1908.0	1908.0	1908.0	1908.0	1908.0	1908.0	1908.0
2.5°	1909.8	1917.3	1919.1	1918.7	1923.6	1950.3	1941.4	1950.3
5°	1914.2	1931.1	1935.6	1941.8	1949.8	1980.1	1970.3	1981.0
7.5°	1916.9	1942.3	1952.1	1964.1	1977.0	2010.8	2002.8	2013.5
10°	1916.9	1949.8	1964.1	1984.1	2001.5	2040.6	2033.1	2045.5
12.5°	1908.9	1951.2	1971.2	1999.2	2021.5	2063.8	2060.7	2069.6
15°	1892.4	1944.5	1972.1	2008.1	2035.7	2082.9	2081.6	2092.3
17.5°	1870.2	1932.9	1966.3	2011.7	2046.4	2099.4	2102.5	2108.3
20°	1842.1	1911.1	1954.7	2010.4	2054.0	2112.3	2116.3	2124.3
22.5°	1805.2	1884.8	1937.4	2004.6	2054.9	2117.6	2124.7	2132.3
25°	1761.6	1853.3	1914.7	1993.4	2050.4	2117.2	2127.0	2133.6
27.5°	1711.7	1812.3	1885.7	1975.6	2038.0	2110.1	2122.1	2130.1
30°	1653.9	1768.7	1852.8	1952.5	2021.0	2096.7	2109.6	2117.6
32.5°	1594.2	1720.6	1813.6	1922.7	1996.6	2075.3	2086.5	2092.7
35°	1529.2	1662.3	1766.5	1884.4	1965.0	2041.1	2049.5	2056.2
37.5°	1458.5	1599.1	1712.6	1841.2	1920.5	1993.4	2001.0	2008.6
40°	1385.5	1532.8	1652.1	1788.3	1867.5	1935.1	1943.2	1948.5
42.5°	1312.1	1459.4	1587.5	1726.0	1804.7	1869.7	1874.6	1880.0
45°	1237.7	1383.3	1515.0	1657.0	1734.9	1795.8	1797.6	1802.1
47.5°	1162.1	1304.5	1435.3	1578.2	1655.2	1710.8	1712.6	1716.2
50°	1086.0	1225.7	1350.3	1493.2	1568.4	1627.2	1619.1	1622.7
52.5°	1011.2	1142.9	1270.2	1401.5	1475.8	1527.9	1530.1	1523.0
55°	937.8	1061.9	1179.0	1305.4	1376.1	1416.6	1415.3	1418.0
57.5°	863.4	980.0	1087.3	1203.0	1272.0	1310.3	1318.3	1308.9
60°	787.8	897.3	993.4	1098.0	1164.7	1196.8	1206.1	1197.2
62.5°	712.5	813.1	900.4	991.6	1053.5	1093.1	1092.2	1082.4
65°	637.3	728.6	806.5	883.9	937.8	977.4	975.6	966.7
67.5°	567.9	643.1	713.0	775.7	822.5	849.6	859.0	848.3
70°	491.4	556.3	617.8	668.0	706.8	731.2	740.1	730.8
72.5°	414.8	470.0	513.2	561.7	591.5	612.0	621.3	612.4
75°	339.1	384.5	419.7	457.5	478.4	495.8	506.5	497.6
77.5°	265.7	300.9	328.9	356.5	380.5	384.5	393.9	388.1
80°	195.8	221.2	241.7	259.9	277.3	279.1	286.6	283.1
82.5°	130.4	147.3	152.7	171.8	182.9	181.1	188.7	186.0
85°	69.0	79.2	88.6	94.4	100.6	94.8	101.5	98.8
87.5°	23.1	24.5	21.4	30.3	33.4	28.5	32.5	31.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)