

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: P837975

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-4STD-30-120-EDD-90**

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: P837975
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-30-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

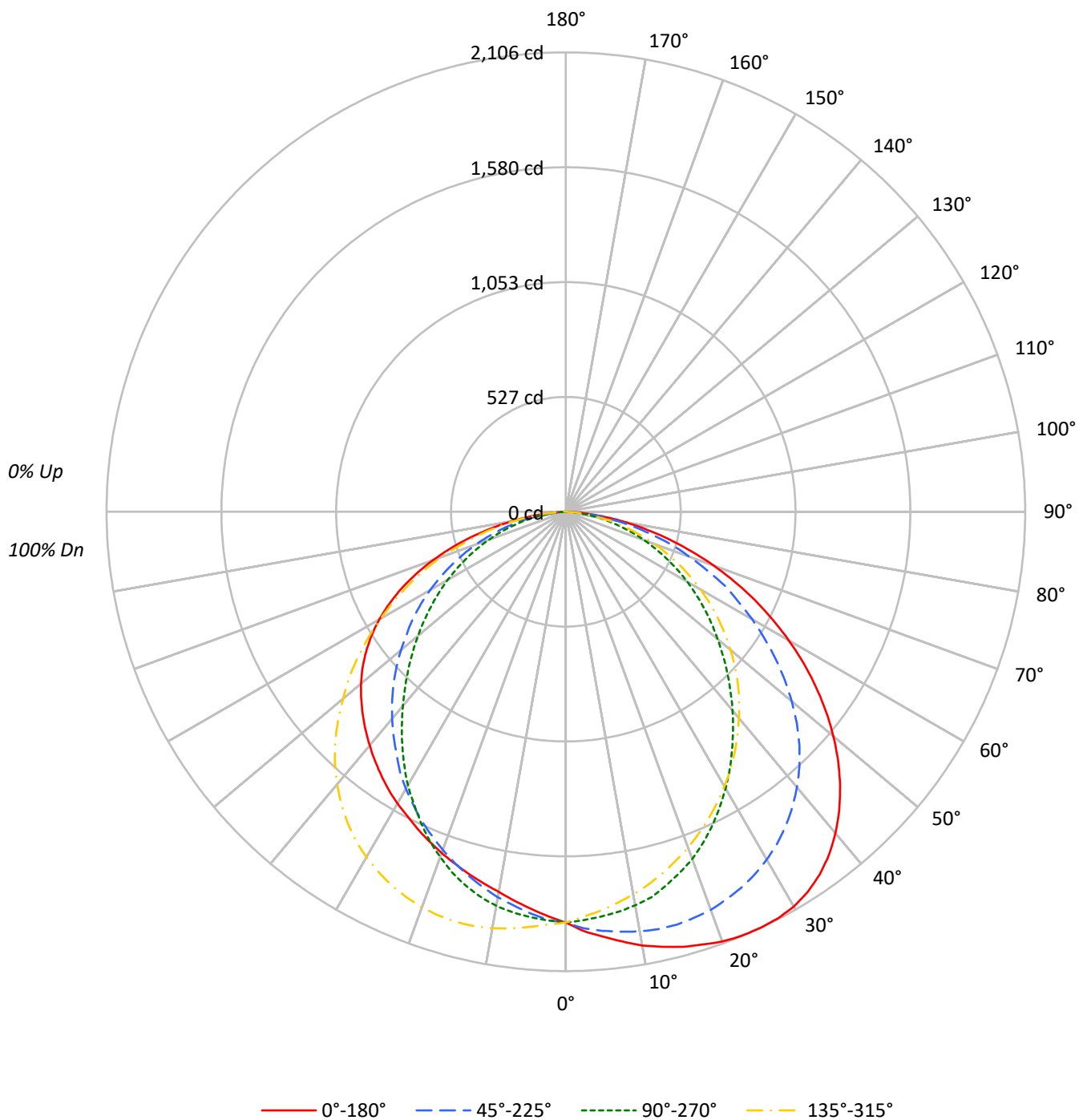
Lumens per Lamp: N/A
Luminaire Lumens: 5525.1 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5068	5068	5068	5068
5°	5282	5031	4936	5039
10°	5517	5005	4836	5013
15°	5753	4942	4789	4943
20°	6004	4852	4768	4824
25°	6253	4717	4767	4668
30°	6495	4552	4799	4502
35°	6667	4365	4847	4296
40°	6756	4177	4915	4083
45°	6769	3987	5010	3887
50°	6705	3805	5133	3704
55°	6566	3636	5247	3535
60°	6360	3459	5317	3369
65°	6075	3256	5289	3181
70°	5675	3017	5102	2962
75°	5106	2690	4682	2676
80°	4330	2253	3935	2287
85°	3010	1491	2495	1531

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.8	3.2
10°-20°	517.8	9.4
20°-30°	793.5	14.4
30°-40°	964.8	17.5
40°-50°	1003.0	18.2
50°-60°	906.0	16.4
60°-70°	688.8	12.5
70°-80°	384.0	7.0
80°-90°	88.4	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°	1490.0	27.0
0°-40°	2454.9	44.4
0°-60°	4363.9	79.0
0°-90°	5525.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5525.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1883	1883	1883	1883	1883	
5°	1955	1863	1827	1866	1955	189
15°	2065	1774	1719	1774	2065	586
25°	2106	1588	1606	1572	2106	973
35°	2030	1329	1476	1308	2030	1268
45°	1779	1048	1316	1021	1779	1369
55°	1400	775	1118	753	1400	1249
65°	954	511	831	500	954	943
75°	491	259	450	257	491	522
85°	98	48	81	50	98	123
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°	1883.2	1883.2	1883.2	1883.2	1883.2	1883.2	1883.2	1883.2	1883.2	1883.2	1883.2
2.5°	1924.9	1896.8	1897.3	1921.9	1903.0	1912.2	1885.9	1896.0	1892.9	1895.1	1873.6
5°	1955.3	1924.9	1924.5	1945.6	1924.5	1928.5	1895.1	1901.7	1892.0	1885.9	1862.6
7.5°	1987.3	1957.0	1953.9	1972.4	1944.7	1941.6	1904.7	1904.7	1887.2	1871.8	1849.8
10°	2019.0	1987.8	1983.8	1997.9	1963.6	1953.5	1908.7	1901.7	1878.4	1855.5	1831.8
12.5°	2042.7	2011.0	2008.0	2016.8	1978.1	1959.7	1908.7	1895.1	1860.8	1828.7	1810.3
15°	2065.1	2032.6	2024.2	2028.6	1984.3	1959.7	1902.5	1881.5	1837.5	1795.4	1773.8
17.5°	2080.9	2049.7	2041.4	2040.9	1987.3	1952.2	1889.4	1860.4	1807.7	1756.7	1735.2
20°	2096.7	2065.5	2055.0	2047.1	1986.4	1942.1	1870.0	1830.9	1769.4	1712.3	1694.3
22.5°	2104.6	2072.5	2061.1	2049.3	1980.7	1923.6	1846.3	1796.7	1726.4	1658.3	1643.4
25°	2105.9	2073.0	2060.7	2043.6	1969.3	1901.7	1815.6	1755.4	1676.8	1601.2	1588.5
27.5°	2102.4	2066.4	2054.1	2033.5	1952.2	1874.9	1779.1	1708.4	1624.0	1540.6	1527.0
30°	2090.1	2053.7	2041.8	2015.0	1928.0	1841.9	1739.1	1656.1	1565.6	1476.9	1465.0
32.5°	2065.5	2029.9	2020.3	1993.5	1901.7	1803.7	1692.6	1599.9	1501.0	1416.3	1398.7
35°	2029.5	1993.9	1987.8	1959.7	1864.8	1758.0	1641.6	1538.4	1432.5	1346.0	1328.8
37.5°	1982.5	1952.6	1943.4	1915.7	1821.3	1706.2	1583.2	1471.6	1362.7	1269.5	1259.0
40°	1923.2	1895.1	1888.0	1863.4	1770.8	1648.6	1519.9	1402.6	1290.6	1204.1	1189.1
42.5°	1855.5	1829.2	1825.2	1799.8	1708.4	1584.9	1451.4	1331.0	1215.5	1132.0	1117.1
45°	1778.7	1753.2	1752.3	1728.1	1640.3	1514.2	1379.4	1258.6	1142.1	1055.6	1047.7
47.5°	1693.9	1671.0	1671.0	1648.6	1564.3	1436.5	1305.1	1183.0	1068.3	991.9	977.8
50°	1601.6	1580.1	1573.5	1562.5	1480.4	1351.7	1226.9	1109.2	995.4	922.5	908.9
52.5°	1503.2	1484.8	1489.2	1469.0	1389.5	1263.4	1147.9	1026.2	922.1	855.7	842.1
55°	1399.6	1373.2	1377.2	1369.7	1294.6	1172.5	1059.1	957.6	850.0	787.6	774.9
57.5°	1291.9	1257.7	1271.7	1267.3	1193.5	1079.3	977.8	879.9	778.4	720.9	708.6
60°	1181.7	1148.7	1163.2	1159.3	1089.9	986.2	893.9	803.0	707.2	655.0	642.7
62.5°	1068.3	1038.0	1051.2	1048.1	984.4	890.9	810.5	727.0	635.6	588.6	577.2
65°	954.1	925.1	937.0	934.8	875.9	804.8	724.8	648.4	563.6	522.7	511.3
67.5°	837.3	810.5	821.5	821.5	767.4	699.3	638.7	568.9	492.9	457.7	447.2
70°	721.3	696.3	705.9	705.1	659.4	604.0	551.7	489.4	421.3	392.3	383.5
72.5°	604.5	582.5	591.3	590.4	552.2	516.6	464.8	410.7	351.4	328.1	320.2
75°	491.1	470.5	478.8	477.9	446.8	413.4	378.7	333.9	282.9	266.6	258.7
77.5°	383.1	362.0	369.0	369.0	346.2	322.0	294.3	259.6	223.6	206.0	200.3
80°	279.4	269.3	265.8	266.2	250.8	235.0	221.0	187.6	161.2	149.4	145.4
82.5°	183.6	175.3	171.8	172.6	163.9	154.2	145.4	122.1	104.5	97.5	95.3
85°	97.5	91.4	88.3	90.5	88.7	83.5	79.1	63.3	52.3	49.6	48.3
87.5°	30.7	26.8	24.6	32.5	27.7	24.6	23.7	18.9	14.5	14.5	14.1
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°	1883.2	1883.2	1883.2	1883.2	1883.2	1883.2	1883.2	1883.2	1883.2	1883.2	1883.2
2.5°	1880.6	1880.6	1863.4	1859.5	1857.7	1859.9	1842.8	1839.7	1864.3	1856.0	1837.1
5°	1865.6	1864.8	1840.6	1836.2	1836.2	1833.6	1814.2	1809.9	1834.5	1827.4	1806.8
7.5°	1847.2	1844.6	1816.0	1812.9	1808.5	1806.8	1785.3	1782.2	1803.3	1798.9	1779.5
10°	1824.8	1822.2	1788.3	1786.1	1781.3	1777.8	1757.6	1755.4	1776.9	1769.9	1754.5
12.5°	1795.4	1790.5	1755.8	1753.6	1749.7	1748.4	1728.6	1727.7	1751.4	1744.4	1728.1
15°	1756.7	1752.7	1714.1	1715.0	1715.4	1715.4	1699.6	1698.7	1722.0	1718.9	1701.4
17.5°	1714.1	1708.8	1671.9	1674.6	1677.6	1681.1	1668.8	1671.0	1695.6	1691.7	1675.9
20°	1665.8	1660.5	1624.5	1631.9	1638.5	1645.6	1637.7	1643.8	1666.6	1664.9	1653.0
22.5°	1611.7	1606.5	1573.1	1584.5	1595.5	1608.7	1605.1	1612.2	1636.3	1635.9	1625.4
25°	1545.8	1547.2	1517.7	1531.8	1550.2	1568.7	1570.0	1581.4	1608.2	1605.6	1595.9
27.5°	1484.3	1486.1	1454.9	1478.6	1503.2	1527.0	1532.7	1548.5	1575.7	1573.5	1565.2
30°	1419.8	1422.0	1391.7	1424.2	1454.0	1483.0	1495.3	1516.9	1544.5	1544.5	1535.7
32.5°	1352.6	1356.5	1324.9	1368.4	1403.1	1436.9	1458.4	1480.8	1512.5	1511.6	1504.1
35°	1283.6	1288.0	1259.0	1314.3	1349.0	1390.3	1417.1	1447.0	1475.1	1475.6	1469.8
37.5°	1213.3	1218.6	1192.2	1252.8	1292.4	1341.1	1375.4	1405.3	1436.5	1438.2	1432.9
40°	1143.5	1149.2	1126.3	1184.8	1234.8	1289.3	1328.8	1364.0	1398.2	1399.1	1395.6
42.5°	1073.6	1079.8	1062.6	1119.7	1176.4	1234.8	1281.4	1321.4	1356.5	1358.7	1354.8
45°	1005.5	1010.8	998.5	1060.9	1115.3	1179.0	1232.6	1277.9	1313.5	1316.5	1315.2
47.5°	937.9	942.7	931.7	988.8	1051.6	1119.3	1181.2	1231.3	1269.1	1272.6	1271.7
50°	871.5	875.5	863.6	923.4	985.8	1057.8	1122.4	1180.4	1222.5	1226.0	1225.6
52.5°	805.6	809.6	799.5	862.3	919.0	995.0	1065.3	1128.1	1169.8	1175.1	1176.0
55°	742.0	743.7	735.8	796.0	850.9	930.4	1011.2	1072.3	1114.0	1118.4	1121.1
57.5°	678.3	678.7	672.1	729.7	782.4	863.6	948.4	1012.6	1052.1	1056.5	1060.4
60°	615.0	614.6	607.1	662.9	713.4	793.8	882.1	945.8	984.0	988.0	993.2
62.5°	552.2	550.9	544.3	595.7	643.1	722.6	811.4	872.9	909.3	912.0	919.0
65°	489.8	488.5	482.3	529.8	572.8	648.8	735.8	794.2	827.2	830.7	829.4
67.5°	428.3	425.7	420.8	463.4	502.5	572.8	656.3	712.1	739.3	742.4	750.7
70°	366.8	363.7	352.7	398.0	432.3	495.1	572.8	622.5	645.3	648.4	647.1
72.5°	306.2	303.1	291.2	333.0	362.0	416.9	486.3	527.6	547.3	550.0	550.0
75°	247.3	245.6	238.1	269.7	293.9	338.7	397.6	431.8	447.2	450.3	449.4
77.5°	190.6	189.3	181.9	209.1	228.0	261.4	308.8	335.6	347.0	350.5	358.0
80°	136.6	136.2	124.3	151.1	159.5	187.6	222.3	242.9	249.1	253.9	259.2
82.5°	87.4	87.9	76.0	98.8	102.4	120.4	141.9	154.6	159.0	163.0	166.9
85°	42.6	44.4	37.8	52.3	52.7	61.9	71.2	76.0	77.8	80.8	84.3
87.5°	11.0	12.7	7.0	14.9	13.2	17.1	19.8	21.1	20.6	22.8	24.2
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1883.2	1883.2	1883.2	1883.2	1883.2	1883.2	1883.2	1883.2	1883.2	1883.2	1883.2
2.5°	1843.2	1857.3	1850.3	1873.1	1881.9	1867.8	1892.4	1892.9	1875.3	1896.0	1907.4
5°	1814.7	1829.2	1824.8	1848.5	1859.5	1847.2	1877.1	1882.8	1865.6	1888.9	1907.4
7.5°	1785.7	1802.8	1797.1	1821.3	1834.5	1824.8	1856.9	1866.1	1852.9	1878.4	1903.0
10°	1760.7	1775.2	1769.0	1794.5	1805.9	1798.0	1829.6	1846.8	1834.5	1865.6	1895.1
12.5°	1736.1	1747.9	1740.9	1762.0	1773.0	1762.9	1801.5	1817.3	1808.5	1841.0	1878.8
15°	1704.4	1717.6	1707.9	1726.8	1735.2	1726.4	1758.0	1785.3	1774.3	1809.9	1851.6
17.5°	1680.3	1687.7	1674.6	1689.5	1694.3	1682.5	1714.5	1741.3	1733.4	1772.1	1820.4
20°	1653.5	1659.6	1641.2	1649.5	1649.1	1634.1	1663.6	1689.9	1684.7	1727.3	1782.2
22.5°	1623.6	1626.7	1605.1	1606.9	1606.0	1581.4	1607.8	1634.6	1632.4	1675.4	1736.9
25°	1592.0	1592.4	1564.7	1563.9	1554.2	1525.2	1548.5	1578.8	1572.2	1618.8	1683.3
27.5°	1560.8	1556.4	1523.0	1515.1	1499.7	1465.0	1485.7	1512.9	1508.9	1554.6	1626.2
30°	1527.4	1521.7	1480.8	1466.3	1443.9	1404.0	1421.1	1446.6	1448.8	1488.7	1563.9
32.5°	1495.8	1481.3	1436.0	1414.9	1386.8	1340.3	1349.5	1375.4	1378.9	1419.3	1496.6
35°	1454.9	1445.2	1389.5	1353.4	1325.8	1274.8	1284.5	1302.5	1307.8	1347.3	1425.9
37.5°	1416.3	1400.9	1341.6	1297.6	1262.1	1208.5	1211.1	1229.6	1234.8	1274.8	1352.6
40°	1376.3	1354.3	1290.6	1239.2	1198.4	1142.1	1139.1	1158.4	1162.3	1201.4	1271.7
42.5°	1333.7	1307.3	1235.7	1179.5	1132.5	1075.4	1069.2	1085.9	1090.3	1128.5	1197.5
45°	1290.6	1259.0	1179.5	1118.0	1066.6	1008.2	1002.0	1014.7	1021.3	1057.4	1123.7
47.5°	1244.9	1208.0	1121.5	1053.0	999.8	941.4	933.9	946.7	951.9	987.5	1050.3
50°	1197.1	1152.2	1061.8	986.2	933.5	875.9	865.0	879.9	884.7	918.1	979.6
52.5°	1144.3	1094.7	998.1	919.0	866.3	811.4	798.2	812.7	818.4	850.9	907.6
55°	1088.5	1035.0	933.9	857.0	799.9	746.3	735.4	741.1	753.4	784.1	836.8
57.5°	1025.7	972.6	866.3	788.1	733.2	681.8	672.5	677.8	689.2	719.1	766.6
60°	959.0	902.7	797.3	719.1	666.0	617.2	608.8	613.7	626.0	653.2	697.1
62.5°	893.1	829.8	726.1	648.4	600.1	554.8	552.6	550.9	562.3	588.6	627.3
65°	813.1	752.5	651.9	578.1	534.2	493.3	484.5	488.5	499.5	523.6	564.0
67.5°	727.5	672.5	575.9	507.8	468.7	432.3	424.8	426.5	438.0	459.1	494.2
70°	636.5	588.2	498.1	437.1	404.1	369.9	365.0	365.5	376.5	394.9	425.7
72.5°	541.2	497.7	419.5	367.2	340.0	315.4	311.0	305.7	315.8	331.7	358.0
75°	444.1	405.9	341.3	298.7	277.2	256.5	252.6	247.3	257.4	271.0	291.7
77.5°	346.2	315.4	265.3	232.4	215.7	200.3	196.8	191.1	201.2	211.3	227.5
80°	250.4	228.0	198.1	163.4	157.7	147.6	144.1	137.9	147.6	154.2	166.5
82.5°	161.7	146.7	129.6	105.4	104.5	97.1	95.3	88.3	97.1	101.0	110.3
85°	81.7	74.7	70.3	53.6	55.3	50.5	50.1	42.6	49.6	51.4	56.7
87.5°	23.3	24.6	22.0	13.2	16.7	15.8	15.8	11.4	15.8	15.8	18.0
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: P837975

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-4STD-30-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1883.2	1883.2	1883.2	1883.2	1883.2	1883.2	1883.2	1883.2
2.5°	1885.0	1892.4	1894.2	1893.8	1898.6	1924.9	1916.2	1924.9
5°	1889.4	1906.1	1910.5	1916.6	1924.5	1954.4	1944.7	1955.3
7.5°	1892.0	1917.0	1926.7	1938.6	1951.3	1984.7	1976.8	1987.3
10°	1892.0	1924.5	1938.6	1958.3	1975.5	2014.1	2006.7	2019.0
12.5°	1884.1	1925.8	1945.6	1973.3	1995.2	2037.0	2033.9	2042.7
15°	1867.8	1919.2	1946.5	1982.1	2009.3	2055.9	2054.5	2065.1
17.5°	1845.9	1907.8	1940.8	1985.6	2019.8	2072.1	2075.2	2080.9
20°	1818.2	1886.3	1929.3	1984.3	2027.3	2084.8	2088.8	2096.7
22.5°	1781.7	1860.4	1912.2	1978.5	2028.2	2090.1	2097.1	2104.6
25°	1738.7	1829.2	1889.8	1967.6	2023.8	2089.7	2099.3	2105.9
27.5°	1689.5	1788.8	1861.3	1950.0	2011.5	2082.7	2094.5	2102.4
30°	1632.4	1745.7	1828.7	1927.1	1994.8	2069.5	2082.2	2090.1
32.5°	1573.5	1698.3	1790.1	1897.7	1970.6	2048.4	2059.4	2065.5
35°	1509.4	1640.7	1743.5	1859.9	1939.4	2014.6	2022.9	2029.5
37.5°	1439.5	1578.4	1690.4	1817.3	1895.5	1967.6	1975.0	1982.5
40°	1367.5	1512.9	1630.6	1765.0	1843.2	1910.0	1917.9	1923.2
42.5°	1295.0	1440.4	1566.9	1703.5	1781.3	1845.4	1850.3	1855.5
45°	1221.7	1365.3	1495.3	1635.5	1712.3	1772.5	1774.3	1778.7
47.5°	1147.0	1287.5	1416.7	1557.7	1633.7	1688.6	1690.4	1693.9
50°	1071.9	1209.8	1332.8	1473.8	1548.0	1606.0	1598.1	1601.6
52.5°	998.1	1128.1	1253.7	1383.3	1456.7	1508.1	1510.3	1503.2
55°	925.6	1048.1	1163.7	1288.4	1358.3	1398.2	1396.9	1399.6
57.5°	852.2	967.3	1073.2	1187.4	1255.5	1293.3	1301.2	1291.9
60°	777.5	885.6	980.5	1083.7	1149.6	1181.2	1190.5	1181.7
62.5°	703.3	802.6	888.7	978.7	1039.8	1078.9	1078.0	1068.3
65°	629.1	719.1	796.0	872.4	925.6	964.7	962.9	954.1
67.5°	560.5	634.8	703.7	765.7	811.8	838.6	847.8	837.3
70°	485.0	549.1	609.7	659.4	697.6	721.7	730.5	721.3
72.5°	409.4	463.9	506.5	554.4	583.8	604.0	613.2	604.5
75°	334.7	379.5	414.2	451.6	472.2	489.4	499.9	491.1
77.5°	262.3	297.0	324.6	351.9	375.6	379.5	388.8	383.1
80°	193.3	218.3	238.5	256.5	273.7	275.4	282.9	279.4
82.5°	128.7	145.4	150.7	169.6	180.5	178.8	186.3	183.6
85°	68.1	78.2	87.4	93.1	99.3	93.6	100.2	97.5
87.5°	22.8	24.2	21.1	29.9	32.9	28.1	32.1	30.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)