

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: P838167

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-2STD-27-120-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: P838167
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-LD4-2STD-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

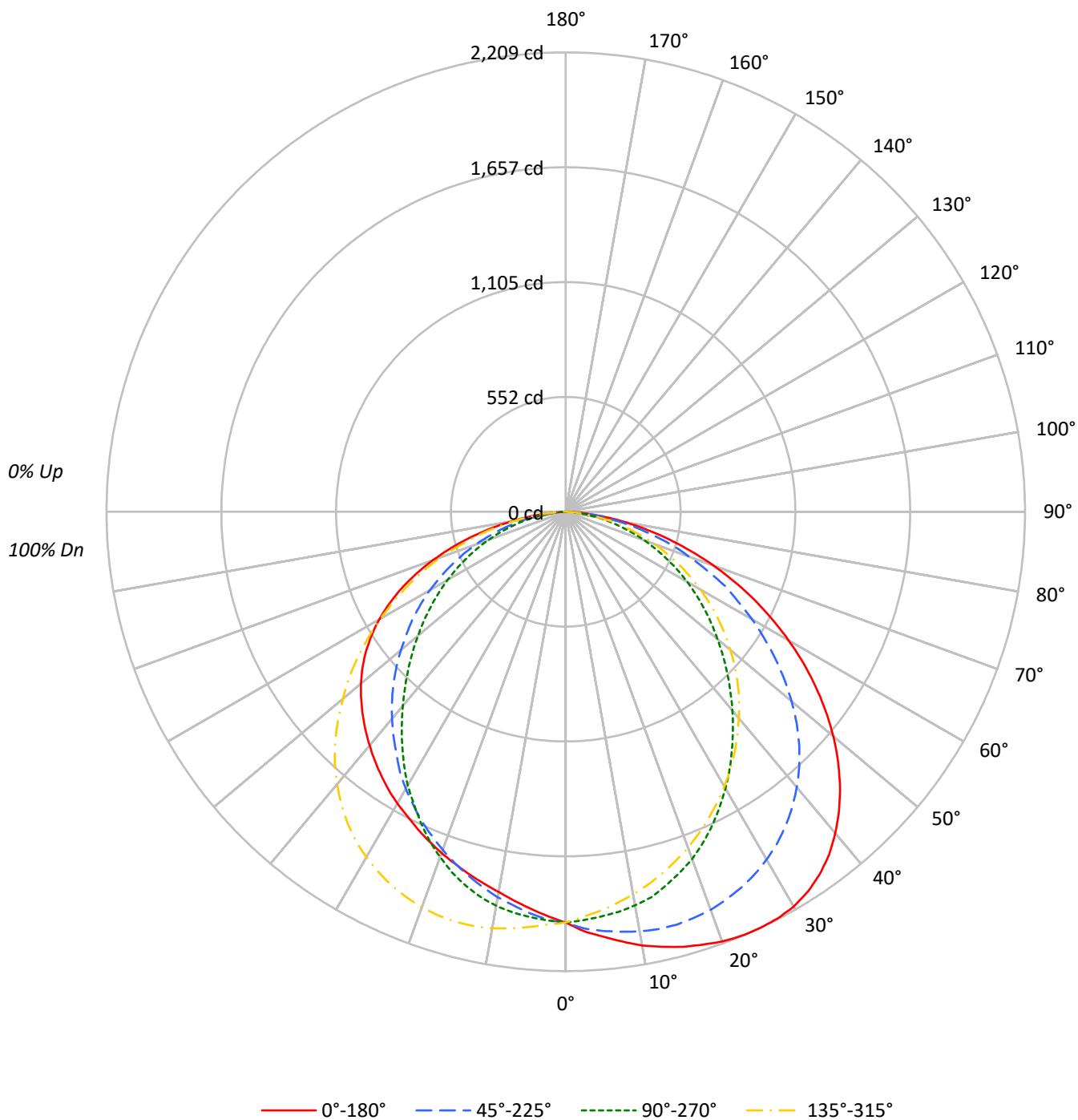
Lumens per Lamp: N/A
Luminaire Lumens: 5795.6 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P838167

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

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P838167

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

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°	2658	2658	2658	2658
5°	2770	2639	2589	2643
10°	2893	2625	2536	2629
15°	3017	2592	2512	2592
20°	3149	2545	2501	2530
25°	3279	2474	2500	2448
30°	3406	2387	2517	2361
35°	3497	2290	2542	2253
40°	3543	2191	2578	2142
45°	3550	2091	2628	2038
50°	3517	1996	2692	1942
55°	3444	1907	2752	1854
60°	3335	1814	2789	1767
65°	3186	1708	2774	1668
70°	2976	1583	2675	1554
75°	2678	1411	2455	1404
80°	2271	1182	2063	1199
85°	1579	783	1309	804



TEST NUMBER: P838167

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.6	3.2
10°-20°	543.1	9.4
20°-30°	832.3	14.4
30°-40°	1012.1	17.5
40°-50°	1052.1	18.2
50°-60°	950.4	16.4
60°-70°	722.5	12.5
70°-80°	402.8	7.0
80°-90°	92.7	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°	1563.0	27.0
0°-40°	2575.1	44.4
0°-60°	4577.5	79.0
0°-90°	5795.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5795.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1975	1975	1975	1975	1975	
5°	2051	1954	1917	1957	2051	198
15°	2166	1861	1803	1861	2166	614
25°	2209	1666	1684	1649	2209	1020
35°	2129	1394	1548	1372	2129	1330
45°	1866	1099	1381	1071	1866	1436
55°	1468	813	1173	790	1468	1311
65°	1001	536	871	524	1001	989
75°	515	271	472	270	515	547
85°	102	51	85	52	102	129
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P838167

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4
2.5°	2019.2	1989.7	1990.2	2016.0	1996.2	2005.8	1978.2	1988.8	1985.6	1987.9	1965.3
5°	2051.0	2019.2	2018.7	2040.9	2018.7	2022.9	1987.9	1994.8	1984.6	1978.2	1953.8
7.5°	2084.6	2052.8	2049.6	2069.0	2039.9	2036.7	1998.0	1998.0	1979.6	1963.4	1940.4
10°	2117.8	2085.1	2080.9	2095.7	2059.7	2049.1	2002.1	1994.8	1970.4	1946.4	1921.5
12.5°	2142.7	2109.5	2106.3	2115.5	2075.0	2055.6	2002.1	1987.9	1951.9	1918.3	1898.9
15°	2166.2	2132.1	2123.3	2127.9	2081.4	2055.6	1995.7	1973.6	1927.5	1883.3	1860.7
17.5°	2182.8	2150.1	2141.3	2140.8	2084.6	2047.8	1981.9	1951.5	1896.2	1842.7	1820.1
20°	2199.4	2166.6	2155.6	2147.3	2083.7	2037.2	1961.6	1920.6	1856.1	1796.2	1777.3
22.5°	2207.7	2174.0	2162.0	2149.6	2077.7	2017.8	1936.7	1884.6	1810.9	1739.5	1723.8
25°	2209.0	2174.5	2161.6	2143.6	2065.7	1994.8	1904.5	1841.3	1758.8	1679.6	1666.2
27.5°	2205.4	2167.6	2154.7	2133.0	2047.8	1966.7	1866.2	1792.0	1703.6	1616.0	1601.7
30°	2192.5	2154.2	2141.8	2113.7	2022.4	1932.1	1824.3	1737.2	1642.3	1549.2	1536.7
32.5°	2166.6	2129.3	2119.2	2091.1	1994.8	1892.0	1775.4	1678.2	1574.5	1485.6	1467.2
35°	2128.9	2091.5	2085.1	2055.6	1956.1	1844.1	1722.0	1613.7	1502.6	1411.9	1393.9
37.5°	2079.6	2048.2	2038.5	2009.5	1910.4	1789.7	1660.7	1543.7	1429.4	1331.7	1320.6
40°	2017.4	1987.9	1980.5	1954.7	1857.5	1729.4	1594.3	1471.3	1353.8	1263.0	1247.4
42.5°	1946.4	1918.7	1914.6	1887.9	1792.0	1662.5	1522.5	1396.2	1275.0	1187.5	1171.8
45°	1865.8	1839.0	1838.1	1812.8	1720.6	1588.4	1446.9	1320.2	1198.1	1107.3	1099.0
47.5°	1776.8	1752.9	1752.9	1729.4	1640.9	1506.8	1369.0	1240.9	1120.6	1040.5	1025.7
50°	1680.1	1657.5	1650.6	1639.0	1552.9	1417.9	1287.0	1163.5	1044.2	967.7	953.4
52.5°	1576.8	1557.5	1562.1	1540.9	1457.5	1325.2	1204.1	1076.4	967.2	897.6	883.3
55°	1468.1	1440.4	1444.6	1436.8	1358.0	1229.9	1111.0	1004.5	891.6	826.2	812.8
57.5°	1355.2	1319.3	1334.0	1329.4	1252.0	1132.2	1025.7	923.0	816.5	756.2	743.3
60°	1239.5	1205.0	1220.2	1216.0	1143.2	1034.5	937.7	842.3	741.9	687.0	674.1
62.5°	1120.6	1088.9	1102.7	1099.5	1032.6	934.5	850.2	762.6	666.8	617.5	605.5
65°	1000.8	970.4	982.9	980.6	918.8	844.2	760.3	680.1	591.2	548.3	536.4
67.5°	878.3	850.2	861.7	861.7	805.0	733.6	670.0	596.7	517.0	480.1	469.1
70°	756.6	730.4	740.5	739.6	691.7	633.6	578.8	513.3	441.9	411.5	402.3
72.5°	634.1	611.0	620.2	619.3	579.2	541.9	487.5	430.8	368.6	344.2	335.9
75°	515.2	493.5	502.3	501.3	468.6	433.6	397.2	350.2	296.8	279.7	271.4
77.5°	401.8	379.7	387.1	387.1	363.1	337.8	308.7	272.3	234.5	216.1	210.1
80°	293.1	282.5	278.8	279.2	263.1	246.5	231.8	196.8	169.1	156.7	152.5
82.5°	192.6	183.9	180.2	181.1	171.9	161.7	152.5	128.1	109.7	102.3	100.0
85°	102.3	95.8	92.6	94.9	93.1	87.6	82.9	66.4	54.8	52.1	50.7
87.5°	32.3	28.1	25.8	34.1	29.0	25.8	24.9	19.8	15.2	15.2	14.7
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: P838167

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

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4
2.5°	1972.7	1972.7	1954.7	1950.5	1948.7	1951.0	1933.0	1929.8	1955.6	1946.9	1927.0
5°	1957.0	1956.1	1930.7	1926.1	1926.1	1923.3	1903.1	1898.5	1924.3	1916.9	1895.2
7.5°	1937.6	1934.9	1904.9	1901.7	1897.1	1895.2	1872.7	1869.4	1891.6	1886.9	1866.7
10°	1914.1	1911.4	1875.9	1873.6	1868.5	1864.8	1843.6	1841.3	1863.9	1856.5	1840.4
12.5°	1883.3	1878.2	1841.8	1839.5	1835.3	1834.0	1813.2	1812.3	1837.2	1829.8	1812.8
15°	1842.7	1838.6	1798.0	1798.9	1799.4	1799.4	1782.8	1781.9	1806.3	1803.1	1784.7
17.5°	1798.0	1792.5	1753.8	1756.5	1759.8	1763.5	1750.6	1752.9	1778.7	1774.5	1757.9
20°	1747.3	1741.8	1704.0	1711.8	1718.8	1726.1	1717.8	1724.3	1748.2	1746.4	1734.0
22.5°	1690.6	1685.1	1650.1	1662.1	1673.6	1687.4	1683.7	1691.1	1716.5	1716.0	1704.9
25°	1621.5	1622.9	1592.0	1606.8	1626.1	1645.5	1646.9	1658.9	1687.0	1684.2	1674.1
27.5°	1557.0	1558.9	1526.1	1551.0	1576.8	1601.7	1607.7	1624.3	1652.9	1650.6	1641.8
30°	1489.3	1491.6	1459.8	1493.9	1525.2	1555.6	1568.5	1591.1	1620.1	1620.1	1610.9
32.5°	1418.8	1422.9	1389.8	1435.4	1471.8	1507.3	1529.8	1553.3	1586.5	1585.6	1577.8
35°	1346.4	1351.0	1320.6	1378.7	1415.1	1458.4	1486.5	1517.9	1547.3	1547.8	1541.8
37.5°	1272.7	1278.2	1250.6	1314.2	1355.7	1406.8	1442.7	1474.1	1506.8	1508.6	1503.1
40°	1199.4	1205.4	1181.5	1242.8	1295.3	1352.4	1393.9	1430.8	1466.7	1467.6	1463.9
42.5°	1126.2	1132.6	1114.7	1174.6	1234.0	1295.3	1344.1	1386.1	1422.9	1425.2	1421.1
45°	1054.8	1060.3	1047.4	1112.8	1170.0	1236.8	1293.0	1340.4	1377.8	1381.0	1379.6
47.5°	983.8	988.9	977.3	1037.2	1103.1	1174.1	1239.1	1291.6	1331.2	1334.9	1334.0
50°	914.2	918.4	905.9	968.6	1034.0	1109.6	1177.3	1238.2	1282.4	1286.1	1285.6
52.5°	845.1	849.2	838.6	904.5	964.0	1043.7	1117.4	1183.3	1227.1	1232.6	1233.5
55°	778.3	780.1	771.8	835.0	892.6	976.0	1060.7	1124.8	1168.6	1173.2	1175.9
57.5°	711.5	711.9	705.0	765.4	820.7	905.9	994.9	1062.1	1103.6	1108.2	1112.4
60°	645.1	644.6	636.8	695.3	748.3	832.7	925.3	992.1	1032.2	1036.3	1041.9
62.5°	579.2	577.8	570.9	624.8	674.6	758.0	851.1	915.6	953.8	956.6	964.0
65°	513.8	512.4	506.0	555.7	600.9	680.6	771.8	833.1	867.7	871.4	870.0
67.5°	449.3	446.5	441.4	486.1	527.1	600.9	688.4	746.9	775.5	778.7	787.5
70°	384.8	381.5	370.0	417.5	453.4	519.3	600.9	652.9	676.9	680.1	678.7
72.5°	321.2	317.9	305.5	349.3	379.7	437.3	510.1	553.4	574.1	576.9	576.9
75°	259.4	257.6	249.7	282.9	308.3	355.3	417.0	453.0	469.1	472.3	471.4
77.5°	200.0	198.6	190.8	219.3	239.2	274.2	323.9	352.0	364.0	367.7	375.5
80°	143.3	142.8	130.4	158.5	167.3	196.8	233.2	254.8	261.3	266.3	271.9
82.5°	91.7	92.2	79.7	103.7	107.4	126.3	148.8	162.2	166.8	171.0	175.1
85°	44.7	46.5	39.6	54.8	55.3	65.0	74.6	79.7	81.6	84.8	88.5
87.5°	11.5	13.4	7.4	15.7	13.8	18.0	20.7	22.1	21.7	24.0	25.3
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: P838167

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

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4
2.5°	1933.5	1948.2	1940.9	1964.8	1974.0	1959.3	1985.1	1985.6	1967.1	1988.8	2000.8
5°	1903.5	1918.7	1914.1	1939.0	1950.5	1937.6	1969.0	1975.0	1957.0	1981.4	2000.8
7.5°	1873.1	1891.1	1885.1	1910.4	1924.3	1914.1	1947.8	1957.4	1943.6	1970.4	1996.2
10°	1846.9	1862.1	1855.6	1882.3	1894.3	1886.0	1919.2	1937.2	1924.3	1957.0	1987.9
12.5°	1821.1	1833.5	1826.1	1848.2	1859.8	1849.2	1889.7	1906.3	1897.1	1931.2	1970.8
15°	1787.9	1801.7	1791.6	1811.4	1820.1	1810.9	1844.1	1872.7	1861.1	1898.5	1942.2
17.5°	1762.5	1770.4	1756.5	1772.2	1777.3	1764.8	1798.5	1826.6	1818.3	1858.8	1909.5
20°	1734.4	1740.9	1721.5	1730.3	1729.8	1714.1	1745.0	1772.7	1767.1	1811.8	1869.4
22.5°	1703.1	1706.3	1683.7	1685.6	1684.7	1658.9	1686.5	1714.6	1712.3	1757.5	1822.0
25°	1669.9	1670.4	1641.3	1640.4	1630.3	1599.9	1624.3	1656.1	1649.2	1698.0	1765.8
27.5°	1637.2	1632.6	1597.6	1589.3	1573.1	1536.7	1558.4	1587.0	1582.8	1630.7	1705.9
30°	1602.2	1596.2	1553.3	1538.1	1514.6	1472.7	1490.7	1517.4	1519.7	1561.6	1640.4
32.5°	1569.0	1553.8	1506.3	1484.2	1454.7	1405.9	1415.6	1442.7	1446.4	1488.8	1569.9
35°	1526.1	1516.0	1457.5	1419.7	1390.7	1337.2	1347.4	1366.3	1371.8	1413.3	1495.7
37.5°	1485.6	1469.5	1407.3	1361.2	1323.9	1267.6	1270.4	1289.8	1295.3	1337.2	1418.8
40°	1443.7	1420.6	1353.8	1299.9	1257.0	1198.1	1194.8	1215.1	1219.3	1260.3	1334.0
42.5°	1399.0	1371.3	1296.2	1237.2	1187.9	1128.0	1121.6	1139.1	1143.7	1183.8	1256.1
45°	1353.8	1320.6	1237.2	1172.7	1118.8	1057.5	1051.1	1064.4	1071.3	1109.1	1178.7
47.5°	1305.9	1267.2	1176.4	1104.5	1048.8	987.5	979.6	993.0	998.5	1035.9	1101.8
50°	1255.7	1208.7	1113.7	1034.5	979.2	918.8	907.3	923.0	928.0	963.1	1027.6
52.5°	1200.4	1148.3	1046.9	964.0	908.7	851.1	837.3	852.5	858.5	892.6	952.0
55°	1141.8	1085.6	979.6	899.0	839.1	782.9	771.4	777.4	790.3	822.5	877.8
57.5°	1076.0	1020.2	908.7	826.7	769.1	715.2	705.5	711.0	723.0	754.3	804.1
60°	1005.9	946.9	836.3	754.3	698.6	647.4	638.7	643.7	656.6	685.2	731.3
62.5°	936.8	870.4	761.7	680.1	629.4	582.0	579.7	577.8	589.8	617.5	658.0
65°	852.9	789.3	683.8	606.4	560.3	517.5	508.3	512.4	523.9	549.3	591.7
67.5°	763.1	705.5	604.1	532.7	491.7	453.4	445.6	447.4	459.4	481.5	518.4
70°	667.7	617.0	522.5	458.5	423.9	388.0	382.9	383.4	394.9	414.3	446.5
72.5°	567.7	522.1	440.1	385.2	356.7	330.8	326.2	320.7	331.3	347.9	375.5
75°	465.9	425.8	358.0	313.3	290.8	269.1	265.0	259.4	270.0	284.3	306.0
77.5°	363.1	330.8	278.3	243.8	226.2	210.1	206.4	200.4	211.0	221.6	238.7
80°	262.7	239.2	207.8	171.4	165.4	154.8	151.1	144.7	154.8	161.7	174.6
82.5°	169.6	153.9	135.9	110.6	109.7	101.8	100.0	92.6	101.8	106.0	115.7
85°	85.7	78.3	73.7	56.2	58.1	53.0	52.5	44.7	52.1	53.9	59.4
87.5°	24.4	25.8	23.0	13.8	17.5	16.6	16.6	12.0	16.6	16.6	18.9
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: P838167

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

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4
2.5°	1977.3	1985.1	1986.9	1986.5	1991.5	2019.2	2010.0	2019.2
5°	1981.9	1999.4	2004.0	2010.4	2018.7	2050.1	2039.9	2051.0
7.5°	1984.6	2010.9	2021.0	2033.5	2046.8	2081.9	2073.6	2084.6
10°	1984.6	2018.7	2033.5	2054.2	2072.2	2112.7	2104.9	2117.8
12.5°	1976.3	2020.1	2040.9	2069.9	2092.9	2136.7	2133.5	2142.7
15°	1959.3	2013.2	2041.8	2079.1	2107.7	2156.5	2155.1	2166.2
17.5°	1936.3	2001.2	2035.8	2082.8	2118.7	2173.6	2176.8	2182.8
20°	1907.2	1978.6	2023.8	2081.4	2126.6	2186.9	2191.1	2199.4
22.5°	1869.0	1951.5	2005.8	2075.4	2127.5	2192.5	2199.8	2207.7
25°	1823.8	1918.7	1982.3	2063.9	2122.9	2192.0	2202.1	2209.0
27.5°	1772.2	1876.3	1952.4	2045.5	2110.0	2184.6	2197.1	2205.4
30°	1712.3	1831.2	1918.3	2021.5	2092.5	2170.8	2184.2	2192.5
32.5°	1650.6	1781.4	1877.7	1990.6	2067.1	2148.7	2160.2	2166.6
35°	1583.3	1721.1	1828.9	1951.0	2034.4	2113.2	2122.0	2128.9
37.5°	1510.0	1655.6	1773.1	1906.3	1988.3	2063.9	2071.7	2079.6
40°	1434.4	1587.0	1710.5	1851.5	1933.5	2003.5	2011.8	2017.4
42.5°	1358.4	1510.9	1643.6	1787.0	1868.5	1935.8	1940.9	1946.4
45°	1281.5	1432.1	1568.5	1715.5	1796.2	1859.3	1861.1	1865.8
47.5°	1203.1	1350.6	1486.1	1634.0	1713.7	1771.3	1773.1	1776.8
50°	1124.3	1269.0	1398.0	1546.0	1623.8	1684.7	1676.4	1680.1
52.5°	1046.9	1183.3	1315.1	1451.0	1528.0	1581.9	1584.2	1576.8
55°	970.9	1099.5	1220.6	1351.5	1424.8	1466.7	1465.3	1468.1
57.5°	893.9	1014.7	1125.7	1245.5	1316.9	1356.6	1364.9	1355.2
60°	815.6	929.0	1028.5	1136.8	1205.9	1239.1	1248.7	1239.5
62.5°	737.7	841.9	932.2	1026.6	1090.7	1131.7	1130.8	1120.6
65°	659.9	754.3	835.0	915.1	970.9	1011.9	1010.1	1000.8
67.5°	588.0	665.8	738.2	803.2	851.5	879.7	889.3	878.3
70°	508.7	576.0	639.6	691.7	731.7	757.1	766.3	756.6
72.5°	429.5	486.6	531.3	581.5	612.4	633.6	643.3	634.1
75°	351.1	398.1	434.5	473.7	495.4	513.3	524.4	515.2
77.5°	275.1	311.5	340.5	369.1	394.0	398.1	407.8	401.8
80°	202.7	229.0	250.2	269.1	287.1	288.9	296.8	293.1
82.5°	135.0	152.5	158.1	177.9	189.4	187.5	195.4	192.6
85°	71.4	82.0	91.7	97.7	104.1	98.1	105.1	102.3
87.5°	24.0	25.3	22.1	31.3	34.6	29.5	33.6	32.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)