

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: P837847

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-3HI-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: P837847
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-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

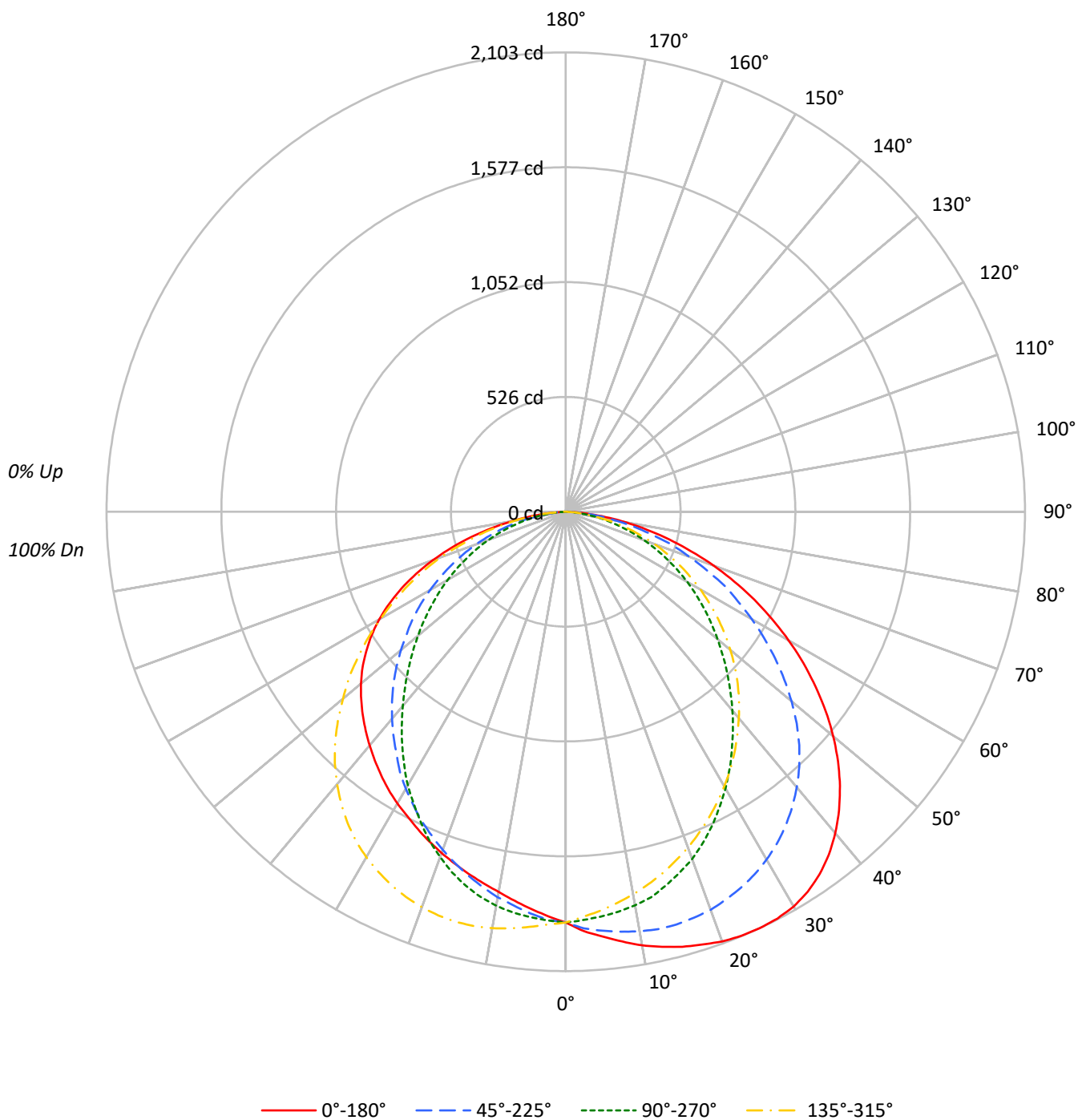
Lumens per Lamp: N/A
Luminaire Lumens: 5516.7 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	30	10	50	30	10
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°	5060	5060	5060	5060
5°	5274	5024	4929	5032
10°	5508	4998	4829	5005
15°	5744	4934	4781	4936
20°	5995	4845	4761	4817
25°	6243	4709	4760	4661
30°	6485	4545	4792	4495
35°	6657	4359	4840	4290
40°	6746	4171	4907	4077
45°	6759	3981	5002	3881
50°	6695	3799	5125	3698
55°	6556	3630	5239	3529
60°	6350	3454	5309	3364
65°	6066	3251	5281	3175
70°	5666	3013	5094	2958
75°	5099	2686	4675	2672
80°	4324	2250	3928	2284
85°	3007	1488	2492	1531



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.5	3.2
10°-20°	517.0	9.4
20°-30°	792.3	14.4
30°-40°	963.4	17.5
40°-50°	1001.5	18.2
50°-60°	904.6	16.4
60°-70°	687.8	12.5
70°-80°	383.4	7.0
80°-90°	88.3	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°	1487.8	27.0
0°-40°	2451.2	44.4
0°-60°	4357.3	79.0
0°-90°	5516.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5516.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1880	1880	1880	1880	1880	
5°	1952	1860	1825	1863	1952	188
15°	2062	1771	1716	1772	2062	585
25°	2103	1586	1603	1570	2103	971
35°	2026	1327	1473	1306	2026	1266
45°	1776	1046	1314	1020	1776	1367
55°	1397	774	1117	752	1397	1247
65°	953	511	829	499	953	941
75°	490	258	450	257	490	521
85°	97	48	81	50	97	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°	1880.4	1880.4	1880.4	1880.4	1880.4	1880.4	1880.4	1880.4	1880.4	1880.4	1880.4
2.5°	1922.0	1894.0	1894.4	1919.0	1900.1	1909.3	1883.0	1893.1	1890.0	1892.2	1870.7
5°	1952.3	1922.0	1921.6	1942.6	1921.6	1925.5	1892.2	1898.8	1889.1	1883.0	1859.7
7.5°	1984.3	1954.0	1951.0	1969.4	1941.8	1938.7	1901.9	1901.9	1884.3	1869.0	1847.0
10°	2015.9	1984.8	1980.8	1994.8	1960.6	1950.5	1905.8	1898.8	1875.5	1852.7	1829.0
12.5°	2039.6	2008.0	2004.9	2013.7	1975.1	1956.7	1905.8	1892.2	1858.0	1826.0	1807.5
15°	2061.9	2029.5	2021.2	2025.5	1981.2	1956.7	1899.7	1878.6	1834.7	1792.6	1771.1
17.5°	2077.7	2046.6	2038.3	2037.8	1984.3	1949.2	1886.5	1857.6	1804.9	1754.0	1732.5
20°	2093.5	2062.4	2051.9	2044.0	1983.4	1939.1	1867.2	1828.2	1766.8	1709.7	1691.8
22.5°	2101.4	2069.4	2058.0	2046.2	1977.7	1920.7	1843.5	1794.0	1723.8	1655.8	1640.9
25°	2102.7	2069.8	2057.6	2040.5	1966.3	1898.8	1812.8	1752.7	1674.2	1598.8	1586.0
27.5°	2099.2	2063.3	2051.0	2030.4	1949.2	1872.0	1776.4	1705.8	1621.6	1538.2	1524.6
30°	2087.0	2050.5	2038.7	2011.9	1925.1	1839.1	1736.5	1653.6	1563.2	1474.6	1462.8
32.5°	2062.4	2026.9	2017.2	1990.5	1898.8	1801.0	1690.0	1597.5	1498.8	1414.1	1396.6
35°	2026.4	1990.9	1984.8	1956.7	1861.9	1755.4	1639.1	1536.0	1430.3	1343.9	1326.8
37.5°	1979.5	1949.7	1940.5	1912.8	1818.5	1703.6	1580.8	1469.4	1360.6	1267.6	1257.1
40°	1920.3	1892.2	1885.2	1860.6	1768.1	1646.1	1517.6	1400.5	1288.7	1202.3	1187.3
42.5°	1852.7	1826.4	1822.5	1797.0	1705.8	1582.5	1449.2	1329.0	1213.7	1130.3	1115.4
45°	1776.0	1750.5	1749.7	1725.5	1637.8	1511.9	1377.3	1256.6	1140.4	1054.0	1046.1
47.5°	1691.3	1668.5	1668.5	1646.1	1561.9	1434.3	1303.1	1181.2	1066.7	990.4	976.4
50°	1599.2	1577.7	1571.1	1560.2	1478.1	1349.6	1225.1	1107.5	993.9	921.1	907.5
52.5°	1501.0	1482.5	1486.9	1466.7	1387.4	1261.5	1146.1	1024.6	920.7	854.4	840.8
55°	1397.4	1371.1	1375.1	1367.6	1292.6	1170.7	1057.5	956.2	848.7	786.4	773.7
57.5°	1290.0	1255.8	1269.8	1265.4	1191.7	1077.7	976.4	878.6	777.2	719.8	707.5
60°	1179.9	1147.0	1161.5	1157.5	1088.2	984.7	892.6	801.8	706.2	654.0	641.7
62.5°	1066.7	1036.5	1049.6	1046.5	982.9	889.5	809.3	725.9	634.7	587.7	576.3
65°	952.7	923.7	935.6	933.4	874.6	803.6	723.7	647.4	562.7	522.0	510.6
67.5°	836.0	809.3	820.2	820.2	766.3	698.3	637.8	568.0	492.1	457.0	446.5
70°	720.2	695.2	704.9	704.0	658.4	603.1	550.9	488.6	420.6	391.7	382.9
72.5°	603.5	581.6	590.4	589.5	551.3	515.8	464.1	410.1	350.9	327.6	319.8
75°	490.4	469.8	478.1	477.2	446.1	412.7	378.1	333.4	282.5	266.2	258.3
77.5°	382.5	361.4	368.4	368.4	345.6	321.5	293.9	259.2	223.3	205.7	200.0
80°	279.0	268.9	265.4	265.8	250.5	234.7	220.6	187.3	161.0	149.1	145.2
82.5°	183.3	175.0	171.5	172.4	163.6	154.0	145.2	121.9	104.4	97.4	95.2
85°	97.4	91.2	88.2	90.4	88.6	83.3	79.0	63.2	52.2	49.6	48.2
87.5°	30.7	26.8	24.6	32.5	27.6	24.6	23.7	18.9	14.5	14.5	14.0
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°	1880.4	1880.4	1880.4	1880.4	1880.4	1880.4	1880.4	1880.4	1880.4	1880.4	1880.4
2.5°	1877.7	1877.7	1860.6	1856.7	1854.9	1857.1	1840.0	1836.9	1861.5	1853.2	1834.3
5°	1862.8	1861.9	1837.8	1833.4	1833.4	1830.8	1811.5	1807.1	1831.7	1824.7	1804.0
7.5°	1844.4	1841.8	1813.3	1810.2	1805.8	1804.0	1782.5	1779.5	1800.5	1796.1	1776.8
10°	1822.0	1819.4	1785.6	1783.4	1778.6	1775.1	1754.9	1752.7	1774.2	1767.2	1751.8
12.5°	1792.6	1787.8	1753.2	1751.0	1747.0	1745.7	1726.0	1725.1	1748.8	1741.8	1725.5
15°	1754.0	1750.1	1711.5	1712.4	1712.8	1712.8	1697.0	1696.1	1719.4	1716.3	1698.8
17.5°	1711.5	1706.2	1669.4	1672.0	1675.1	1678.6	1666.3	1668.5	1693.1	1689.1	1673.3
20°	1663.2	1658.0	1622.0	1629.5	1636.0	1643.1	1635.2	1641.3	1664.1	1662.4	1650.5
22.5°	1609.3	1604.0	1570.7	1582.1	1593.1	1606.2	1602.7	1609.7	1633.9	1633.4	1622.9
25°	1543.5	1544.8	1515.4	1529.5	1547.9	1566.3	1567.6	1579.0	1605.8	1603.2	1593.5
27.5°	1482.1	1483.8	1452.7	1476.4	1501.0	1524.6	1530.3	1546.1	1573.3	1571.1	1562.8
30°	1417.6	1419.8	1389.5	1422.0	1451.8	1480.8	1493.1	1514.6	1542.2	1542.2	1533.4
32.5°	1350.5	1354.5	1322.9	1366.3	1400.9	1434.7	1456.2	1478.6	1510.2	1509.3	1501.8
35°	1281.6	1286.0	1257.1	1312.3	1347.0	1388.2	1415.0	1444.8	1472.9	1473.3	1467.6
37.5°	1211.5	1216.7	1190.4	1250.9	1290.4	1339.1	1373.3	1403.1	1434.3	1436.0	1430.8
40°	1141.7	1147.4	1124.6	1183.0	1233.0	1287.3	1326.8	1361.9	1396.1	1397.0	1393.5
42.5°	1072.0	1078.1	1061.0	1118.0	1174.6	1233.0	1279.5	1319.4	1354.5	1356.6	1352.7
45°	1004.0	1009.3	997.0	1059.3	1113.7	1177.3	1230.8	1275.9	1311.5	1314.5	1313.2
47.5°	936.5	941.3	930.3	987.3	1050.1	1117.6	1179.4	1229.4	1267.2	1270.7	1269.8
50°	870.2	874.2	862.3	922.0	984.3	1056.2	1120.7	1178.6	1220.7	1224.2	1223.7
52.5°	804.4	808.4	798.3	861.0	917.6	993.5	1063.7	1126.4	1168.0	1173.3	1174.2
55°	740.8	742.6	734.7	794.8	849.6	929.0	1009.7	1070.7	1112.3	1116.7	1119.4
57.5°	677.2	677.7	671.1	728.5	781.2	862.3	947.0	1011.0	1050.5	1054.9	1058.8
60°	614.1	613.6	606.2	661.9	712.3	792.6	880.7	944.3	982.5	986.5	991.7
62.5°	551.3	550.0	543.4	594.8	642.1	721.5	810.1	871.5	907.9	910.6	917.6
65°	489.1	487.7	481.6	529.0	572.0	647.8	734.7	793.0	825.9	829.4	828.1
67.5°	427.7	425.0	420.2	462.7	501.8	572.0	655.3	711.0	738.2	741.3	749.6
70°	366.2	363.2	352.2	397.4	431.6	494.3	572.0	621.5	644.3	647.4	646.1
72.5°	305.7	302.6	290.8	332.5	361.4	416.2	485.6	526.8	546.5	549.2	549.2
75°	246.9	245.2	237.7	269.3	293.4	338.2	397.0	431.2	446.5	449.6	448.7
77.5°	190.4	189.0	181.6	208.8	227.6	261.0	308.3	335.1	346.5	350.0	357.5
80°	136.4	136.0	124.1	150.9	159.2	187.3	221.9	242.6	248.7	253.5	258.8
82.5°	87.3	87.7	75.9	98.7	102.2	120.2	141.7	154.4	158.8	162.7	166.7
85°	42.5	44.3	37.7	52.2	52.6	61.8	71.1	75.9	77.6	80.7	84.2
87.5°	11.0	12.7	7.0	14.9	13.2	17.1	19.7	21.1	20.6	22.8	24.1
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1880.4	1880.4	1880.4	1880.4	1880.4	1880.4	1880.4	1880.4	1880.4	1880.4	1880.4
2.5°	1840.4	1854.5	1847.5	1870.3	1879.0	1865.0	1889.6	1890.0	1872.5	1893.1	1904.5
5°	1811.9	1826.4	1822.0	1845.7	1856.7	1844.4	1874.2	1879.9	1862.8	1886.1	1904.5
7.5°	1783.0	1800.1	1794.4	1818.5	1831.7	1822.0	1854.0	1863.3	1850.1	1875.5	1900.1
10°	1758.0	1772.5	1766.3	1791.8	1803.2	1795.3	1826.8	1844.0	1831.7	1862.8	1892.2
12.5°	1733.4	1745.3	1738.2	1759.3	1770.3	1760.2	1798.8	1814.6	1805.8	1838.3	1876.0
15°	1701.8	1715.0	1705.4	1724.2	1732.5	1723.8	1755.4	1782.5	1771.6	1807.1	1848.8
17.5°	1677.7	1685.2	1672.0	1686.9	1691.8	1679.9	1711.9	1738.7	1730.8	1769.4	1817.6
20°	1651.0	1657.1	1638.7	1647.0	1646.6	1631.7	1661.1	1687.4	1682.1	1724.7	1779.5
22.5°	1621.1	1624.2	1602.7	1604.5	1603.6	1579.0	1605.3	1632.1	1629.9	1672.9	1734.3
25°	1589.6	1590.0	1562.4	1561.5	1551.8	1522.9	1546.1	1576.4	1569.8	1616.3	1680.8
27.5°	1558.4	1554.0	1520.7	1512.8	1497.4	1462.8	1483.4	1510.6	1506.7	1552.3	1623.8
30°	1525.1	1519.4	1478.6	1464.1	1441.7	1401.8	1418.9	1444.4	1446.6	1486.5	1561.5
32.5°	1493.5	1479.0	1433.8	1412.8	1384.7	1338.2	1347.4	1373.3	1376.8	1417.2	1494.4
35°	1452.7	1443.1	1387.4	1351.4	1323.8	1272.9	1282.5	1300.5	1305.8	1345.2	1423.8
37.5°	1414.1	1398.8	1339.5	1295.7	1260.2	1206.6	1209.3	1227.7	1233.0	1272.9	1350.5
40°	1374.2	1352.3	1288.7	1237.3	1196.6	1140.4	1137.3	1156.6	1160.6	1199.6	1269.8
42.5°	1331.6	1305.3	1233.8	1177.7	1130.8	1073.7	1067.6	1084.3	1088.7	1126.8	1195.7
45°	1288.7	1257.1	1177.7	1116.3	1065.0	1006.6	1000.5	1013.2	1019.8	1055.8	1122.0
47.5°	1243.0	1206.2	1119.8	1051.4	998.3	940.0	932.5	945.2	950.5	986.0	1048.7
50°	1195.2	1150.5	1060.1	984.7	932.1	874.6	863.6	878.6	883.4	916.7	978.1
52.5°	1142.6	1093.0	996.5	917.6	865.0	810.1	797.0	811.4	817.1	849.6	906.2
55°	1086.9	1033.4	932.5	855.7	798.7	745.2	734.2	740.0	752.2	782.9	835.6
57.5°	1024.2	971.1	865.0	786.9	732.1	680.7	671.5	676.8	688.2	718.0	765.4
60°	957.5	901.4	796.1	718.0	664.9	616.3	607.9	612.8	625.0	652.2	696.1
62.5°	891.7	828.6	725.0	647.4	599.2	554.0	551.8	550.0	561.4	587.7	626.3
65°	811.9	751.4	650.9	577.2	533.4	492.6	483.8	487.7	498.7	522.8	563.2
67.5°	726.4	671.5	575.0	507.0	468.0	431.6	424.1	425.9	437.3	458.4	493.4
70°	635.6	587.3	497.4	436.4	403.5	369.3	364.5	364.9	375.9	394.3	425.0
72.5°	540.4	497.0	418.9	366.7	339.5	314.9	310.5	305.3	315.4	331.2	357.5
75°	443.4	405.3	340.8	298.3	276.8	256.2	252.2	246.9	257.0	270.6	291.2
77.5°	345.6	314.9	264.9	232.0	215.4	200.0	196.5	190.8	200.9	211.0	227.2
80°	250.0	227.6	197.8	163.2	157.5	147.4	143.9	137.7	147.4	154.0	166.2
82.5°	161.4	146.5	129.4	105.3	104.4	96.9	95.2	88.2	96.9	100.9	110.1
85°	81.6	74.6	70.2	53.5	55.3	50.4	50.0	42.5	49.6	51.3	56.6
87.5°	23.2	24.6	21.9	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: P837847

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-3HI-27-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1880.4	1880.4	1880.4	1880.4	1880.4	1880.4	1880.4	1880.4
2.5°	1882.1	1889.6	1891.3	1890.9	1895.7	1922.0	1913.3	1922.0
5°	1886.5	1903.2	1907.6	1913.7	1921.6	1951.4	1941.8	1952.3
7.5°	1889.1	1914.1	1923.8	1935.6	1948.3	1981.7	1973.8	1984.3
10°	1889.1	1921.6	1935.6	1955.4	1972.5	2011.1	2003.6	2015.9
12.5°	1881.2	1922.9	1942.6	1970.3	1992.2	2033.9	2030.8	2039.6
15°	1865.0	1916.3	1943.5	1979.0	2006.2	2052.7	2051.4	2061.9
17.5°	1843.1	1904.9	1937.8	1982.6	2016.8	2069.0	2072.0	2077.7
20°	1815.4	1883.4	1926.4	1981.2	2024.2	2081.7	2085.6	2093.5
22.5°	1779.0	1857.6	1909.3	1975.5	2025.1	2087.0	2094.0	2101.4
25°	1736.1	1826.4	1886.9	1964.6	2020.7	2086.5	2096.2	2102.7
27.5°	1686.9	1786.1	1858.4	1947.0	2008.4	2079.5	2091.3	2099.2
30°	1629.9	1743.1	1826.0	1924.2	1991.8	2066.3	2079.1	2087.0
32.5°	1571.1	1695.7	1787.4	1894.8	1967.6	2045.3	2056.2	2062.4
35°	1507.1	1638.2	1740.9	1857.1	1936.5	2011.5	2019.8	2026.4
37.5°	1437.4	1576.0	1687.8	1814.6	1892.6	1964.6	1972.0	1979.5
40°	1365.4	1510.6	1628.2	1762.4	1840.4	1907.1	1915.0	1920.3
42.5°	1293.0	1438.2	1564.6	1701.0	1778.6	1842.6	1847.5	1852.7
45°	1219.8	1363.2	1493.1	1633.0	1709.7	1769.8	1771.6	1776.0
47.5°	1145.2	1285.6	1414.5	1555.3	1631.2	1686.1	1687.8	1691.3
50°	1070.2	1208.0	1330.8	1471.6	1545.7	1603.6	1595.7	1599.2
52.5°	996.5	1126.4	1251.8	1381.2	1454.5	1505.8	1508.0	1501.0
55°	924.2	1046.5	1161.9	1286.5	1356.2	1396.1	1394.8	1397.4
57.5°	850.9	965.8	1071.5	1185.6	1253.6	1291.3	1299.2	1290.0
60°	776.4	884.3	979.0	1082.1	1147.9	1179.4	1188.7	1179.9
62.5°	702.2	801.4	887.3	977.2	1038.2	1077.2	1076.4	1066.7
65°	628.1	718.0	794.8	871.1	924.2	963.2	961.5	952.7
67.5°	559.7	633.8	702.7	764.5	810.6	837.3	846.5	836.0
70°	484.2	548.3	608.8	658.4	696.5	720.7	729.4	720.2
72.5°	408.8	463.2	505.7	553.5	582.9	603.1	612.3	603.5
75°	334.2	379.0	413.6	450.9	471.5	488.6	499.1	490.4
77.5°	261.9	296.5	324.1	351.3	375.0	379.0	388.2	382.5
80°	193.0	218.0	238.2	256.2	273.3	275.0	282.5	279.0
82.5°	128.5	145.2	150.4	169.3	180.3	178.5	186.0	183.3
85°	68.0	78.1	87.3	93.0	99.1	93.4	100.0	97.4
87.5°	22.8	24.1	21.1	29.8	32.9	28.1	32.0	30.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)