

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: P837901

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-3HI-40-120-EDD**

Issue Date: 5/21/2024



Test Information

Test Method: LM-79-08
Report Number: P837901
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-40-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

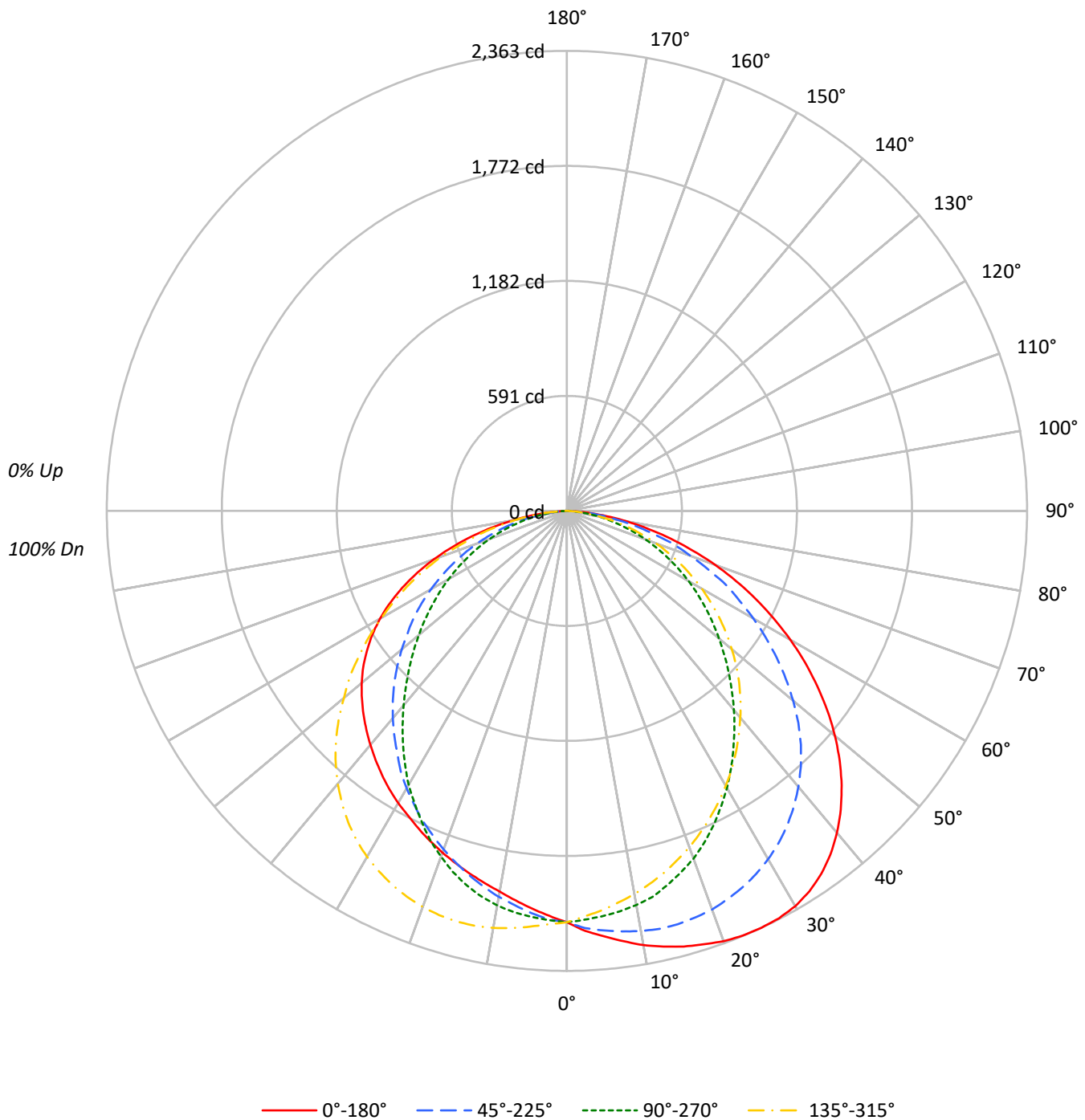
Lumens per Lamp: N/A
Luminaire Lumens: 6198.6 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

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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°	5685	5685	5685	5685
5°	5925	5645	5538	5654
10°	6189	5616	5426	5624
15°	6454	5544	5372	5545
20°	6736	5443	5349	5412
25°	7015	5291	5348	5237
30°	7286	5107	5384	5051
35°	7480	4897	5438	4820
40°	7579	4686	5514	4581
45°	7594	4473	5621	4360
50°	7523	4269	5758	4155
55°	7367	4079	5887	3965
60°	7135	3880	5965	3780
65°	6816	3653	5934	3568
70°	6367	3385	5723	3323
75°	5729	3018	5253	3003
80°	4857	2528	4415	2566
85°	3378	1673	2800	1720

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.6	3.2
10°-20°	580.9	9.4
20°-30°	890.2	14.4
30°-40°	1082.4	17.5
40°-50°	1125.3	18.2
50°-60°	1016.4	16.4
60°-70°	772.8	12.5
70°-80°	430.8	7.0
80°-90°	99.2	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°	1671.7	27.0
0°-40°	2754.1	44.4
0°-60°	4895.8	79.0
0°-90°	6198.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6198.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2113	2113	2113	2113	2113	
5°	2194	2090	2050	2093	2194	212
15°	2317	1990	1928	1990	2317	657
25°	2363	1782	1801	1764	2363	1091
35°	2277	1491	1655	1467	2277	1422
45°	1996	1175	1477	1146	1996	1536
55°	1570	869	1255	845	1570	1402
65°	1070	574	932	560	1070	1058
75°	551	290	505	289	551	585
85°	109	54	91	56	109	138
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°	2112.8	2112.8	2112.8	2112.8	2112.8	2112.8	2112.8	2112.8	2112.8	2112.8	2112.8
2.5°	2159.6	2128.0	2128.5	2156.1	2134.9	2145.3	2115.7	2127.1	2123.6	2126.1	2101.9
5°	2193.6	2159.6	2159.1	2182.7	2159.1	2163.5	2126.1	2133.5	2122.6	2115.7	2089.6
7.5°	2229.6	2195.6	2192.1	2212.8	2181.8	2178.3	2136.9	2136.9	2117.2	2100.0	2075.3
10°	2265.0	2230.1	2225.6	2241.4	2203.0	2191.6	2141.3	2133.5	2107.3	2081.7	2055.1
12.5°	2291.7	2256.2	2252.7	2262.6	2219.2	2198.5	2141.3	2126.1	2087.6	2051.7	2031.0
15°	2316.8	2280.3	2271.0	2275.9	2226.1	2198.5	2134.4	2110.8	2061.5	2014.2	1990.0
17.5°	2334.5	2299.5	2290.2	2289.7	2229.6	2190.1	2119.7	2087.1	2028.0	1970.8	1946.7
20°	2352.3	2317.3	2305.5	2296.6	2228.6	2178.8	2098.0	2054.1	1985.1	1921.1	1900.8
22.5°	2361.2	2325.2	2312.4	2299.1	2222.2	2158.1	2071.4	2015.7	1936.8	1860.4	1843.7
25°	2362.6	2325.7	2311.9	2292.6	2209.4	2133.5	2036.9	1969.4	1881.1	1796.4	1782.1
27.5°	2358.7	2318.3	2304.5	2281.3	2190.1	2103.4	1996.0	1916.6	1822.0	1728.4	1713.1
30°	2344.9	2304.0	2290.7	2260.6	2163.0	2066.4	1951.1	1858.0	1756.4	1656.9	1643.6
32.5°	2317.3	2277.4	2266.5	2236.5	2133.5	2023.6	1898.9	1794.9	1684.0	1588.9	1569.2
35°	2276.9	2237.0	2230.1	2198.5	2092.1	1972.3	1841.7	1725.9	1607.1	1510.0	1490.8
37.5°	2224.1	2190.6	2180.3	2149.2	2043.3	1914.2	1776.2	1651.0	1528.8	1424.3	1412.5
40°	2157.6	2126.1	2118.2	2090.6	1986.6	1849.6	1705.2	1573.6	1447.9	1350.8	1334.1
42.5°	2081.7	2052.1	2047.7	2019.1	1916.6	1778.1	1628.3	1493.3	1363.7	1270.0	1253.3
45°	1995.5	1966.9	1965.9	1938.8	1840.2	1698.8	1547.5	1412.0	1281.4	1184.3	1175.4
47.5°	1900.4	1874.7	1874.7	1849.6	1755.0	1611.6	1464.2	1327.2	1198.6	1112.8	1097.0
50°	1796.9	1772.7	1765.3	1753.0	1660.8	1516.4	1376.5	1244.4	1116.8	1034.9	1019.7
52.5°	1686.5	1665.8	1670.7	1648.0	1558.8	1417.4	1287.8	1151.3	1034.5	960.0	944.8
55°	1570.2	1540.6	1545.0	1536.6	1452.4	1315.4	1188.2	1074.4	953.6	883.6	869.4
57.5°	1449.4	1411.0	1426.7	1421.8	1339.0	1210.9	1097.0	987.1	873.3	808.7	794.9
60°	1325.7	1288.8	1305.0	1300.6	1222.7	1106.4	1002.9	900.9	793.5	734.8	721.0
62.5°	1198.6	1164.6	1179.3	1175.9	1104.4	999.5	909.3	815.6	713.1	660.4	647.6
65°	1070.4	1037.9	1051.2	1048.7	982.7	902.9	813.2	727.4	632.3	586.5	573.7
67.5°	939.3	909.3	921.6	921.6	861.0	784.6	716.6	638.2	553.0	513.5	501.7
70°	809.2	781.1	792.0	791.0	739.7	677.6	619.0	549.0	472.6	440.1	430.2
72.5°	678.1	653.5	663.3	662.4	619.5	579.6	521.4	460.8	394.3	368.1	359.3
75°	551.0	527.8	537.2	536.2	501.2	463.8	424.8	374.6	317.4	299.1	290.3
77.5°	429.7	406.1	414.0	414.0	388.4	361.2	330.2	291.3	250.9	231.1	224.7
80°	313.4	302.1	298.2	298.7	281.4	263.7	247.9	210.4	180.9	167.6	163.1
82.5°	206.0	196.6	192.7	193.7	183.8	173.0	163.1	137.0	117.3	109.4	106.9
85°	109.4	102.5	99.1	101.5	99.6	93.6	88.7	71.0	58.6	55.7	54.2
87.5°	34.5	30.1	27.6	36.5	31.0	27.6	26.6	21.2	16.3	16.3	15.8
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°	2112.8	2112.8	2112.8	2112.8	2112.8	2112.8	2112.8	2112.8	2112.8	2112.8	2112.8
2.5°	2109.8	2109.8	2090.6	2086.2	2084.2	2086.6	2067.4	2064.0	2091.6	2082.2	2061.0
5°	2093.1	2092.1	2065.0	2060.0	2060.0	2057.1	2035.4	2030.5	2058.1	2050.2	2027.0
7.5°	2072.4	2069.4	2037.4	2033.9	2029.0	2027.0	2002.9	1999.4	2023.1	2018.1	1996.5
10°	2047.2	2044.3	2006.3	2003.8	1998.4	1994.5	1971.8	1969.4	1993.5	1985.6	1968.4
12.5°	2014.2	2008.8	1969.8	1967.4	1962.9	1961.5	1939.3	1938.3	1964.9	1957.0	1938.8
15°	1970.8	1966.4	1923.0	1924.0	1924.5	1924.5	1906.8	1905.8	1931.9	1928.4	1908.7
17.5°	1923.0	1917.1	1875.7	1878.7	1882.1	1886.1	1872.3	1874.7	1902.3	1897.9	1880.1
20°	1868.8	1862.9	1822.5	1830.9	1838.3	1846.1	1837.3	1844.2	1869.8	1867.8	1854.5
22.5°	1808.2	1802.3	1764.8	1777.6	1790.0	1804.7	1800.8	1808.7	1835.8	1835.3	1823.5
25°	1734.3	1735.7	1702.7	1718.5	1739.2	1759.9	1761.4	1774.2	1804.3	1801.3	1790.5
27.5°	1665.3	1667.2	1632.3	1658.9	1686.5	1713.1	1719.5	1737.2	1767.8	1765.3	1756.0
30°	1592.8	1595.3	1561.3	1597.8	1631.3	1663.8	1677.6	1701.7	1732.8	1732.8	1722.9
32.5°	1517.4	1521.9	1486.4	1535.2	1574.1	1612.0	1636.2	1661.3	1696.8	1695.8	1687.5
35°	1440.1	1445.0	1412.5	1474.5	1513.5	1559.8	1589.9	1623.4	1654.9	1655.4	1649.0
37.5°	1361.2	1367.1	1337.5	1405.6	1449.9	1504.6	1543.1	1576.6	1611.6	1613.5	1607.6
40°	1282.8	1289.2	1263.6	1329.2	1385.3	1446.5	1490.8	1530.2	1568.7	1569.7	1565.7
42.5°	1204.5	1211.4	1192.2	1256.2	1319.8	1385.3	1437.6	1482.4	1521.9	1524.3	1519.9
45°	1128.1	1134.0	1120.2	1190.2	1251.3	1322.8	1382.9	1433.6	1473.6	1477.0	1475.5
47.5°	1052.2	1057.6	1045.3	1109.4	1179.8	1255.7	1325.2	1381.4	1423.8	1427.7	1426.7
50°	977.8	982.2	968.9	1035.9	1105.9	1186.7	1259.2	1324.2	1371.5	1375.5	1375.0
52.5°	903.9	908.3	897.0	967.4	1031.0	1116.3	1195.1	1265.6	1312.4	1318.3	1319.3
55°	832.4	834.4	825.5	893.0	954.6	1043.8	1134.5	1203.0	1249.8	1254.7	1257.7
57.5°	760.9	761.4	754.0	818.6	877.7	968.9	1064.0	1136.0	1180.3	1185.3	1189.7
60°	690.0	689.5	681.1	743.7	800.4	890.5	989.6	1061.1	1103.9	1108.4	1114.3
62.5°	619.5	618.0	610.6	668.3	721.5	810.7	910.3	979.3	1020.2	1023.1	1031.0
65°	549.5	548.0	541.1	594.4	642.7	727.9	825.5	891.0	928.0	931.9	930.5
67.5°	480.5	477.6	472.1	519.9	563.8	642.7	736.3	798.9	829.4	832.9	842.2
70°	411.5	408.1	395.7	446.5	484.9	555.4	642.7	698.3	724.0	727.4	725.9
72.5°	343.5	340.1	326.7	373.6	406.1	467.7	545.6	591.9	614.1	617.0	617.0
75°	277.5	275.5	267.1	302.6	329.7	380.0	446.0	484.5	501.7	505.2	504.2
77.5°	213.9	212.4	204.0	234.6	255.8	293.2	346.5	376.5	389.3	393.3	401.7
80°	153.3	152.8	139.5	169.5	178.9	210.4	249.4	272.5	279.4	284.9	290.8
82.5°	98.1	98.6	85.3	110.9	114.8	135.0	159.2	173.5	178.4	182.8	187.3
85°	47.8	49.8	42.4	58.6	59.1	69.5	79.8	85.3	87.2	90.7	94.6
87.5°	12.3	14.3	7.9	16.8	14.8	19.2	22.2	23.7	23.2	25.6	27.1
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°	2112.8	2112.8	2112.8	2112.8	2112.8	2112.8	2112.8	2112.8	2112.8	2112.8	2112.8
2.5°	2067.9	2083.7	2075.8	2101.4	2111.3	2095.5	2123.1	2123.6	2103.9	2127.1	2139.9
5°	2035.9	2052.1	2047.2	2073.8	2086.2	2072.4	2105.9	2112.3	2093.1	2119.2	2139.9
7.5°	2003.4	2022.6	2016.2	2043.3	2058.1	2047.2	2083.2	2093.5	2078.8	2107.3	2134.9
10°	1975.3	1991.5	1984.6	2013.2	2026.0	2017.2	2052.6	2071.9	2058.1	2093.1	2126.1
12.5°	1947.7	1961.0	1953.1	1976.7	1989.1	1977.7	2021.1	2038.8	2029.0	2065.5	2107.8
15°	1912.2	1927.0	1916.1	1937.3	1946.7	1936.8	1972.3	2002.9	1990.5	2030.5	2077.3
17.5°	1885.1	1893.5	1878.7	1895.4	1900.8	1887.5	1923.5	1953.6	1944.7	1988.1	2042.3
20°	1855.0	1861.9	1841.2	1850.6	1850.1	1833.3	1866.3	1895.9	1890.0	1937.8	1999.4
22.5°	1821.5	1825.0	1800.8	1802.8	1801.8	1774.2	1803.8	1833.8	1831.4	1879.7	1948.7
25°	1786.0	1786.5	1755.5	1754.5	1743.6	1711.1	1737.2	1771.2	1763.8	1816.1	1888.5
27.5°	1751.0	1746.1	1708.6	1699.8	1682.5	1643.6	1666.8	1697.3	1692.9	1744.1	1824.5
30°	1713.6	1707.2	1661.3	1645.1	1619.9	1575.1	1594.3	1622.9	1625.4	1670.2	1754.5
32.5°	1678.1	1661.8	1611.1	1587.4	1555.9	1503.6	1514.0	1543.1	1547.0	1592.3	1679.1
35°	1632.3	1621.4	1558.8	1518.4	1487.4	1430.2	1441.0	1461.2	1467.2	1511.5	1599.7
37.5°	1588.9	1571.6	1505.1	1455.8	1415.9	1355.8	1358.7	1379.4	1385.3	1430.2	1517.4
40°	1544.0	1519.4	1447.9	1390.3	1344.4	1281.4	1277.9	1299.6	1304.0	1347.9	1426.7
42.5°	1496.2	1466.7	1386.3	1323.3	1270.5	1206.4	1199.5	1218.3	1223.2	1266.1	1343.5
45°	1447.9	1412.5	1323.3	1254.3	1196.6	1131.0	1124.1	1138.4	1145.8	1186.2	1260.7
47.5°	1396.7	1355.3	1258.2	1181.3	1121.7	1056.1	1047.8	1062.0	1068.0	1107.9	1178.4
50°	1343.0	1292.7	1191.2	1106.4	1047.3	982.7	970.4	987.1	992.6	1030.0	1099.0
52.5°	1283.8	1228.1	1119.7	1031.0	971.9	910.3	895.5	911.7	918.1	954.6	1018.2
55°	1221.2	1161.1	1047.8	961.5	897.4	837.3	825.0	831.4	845.2	879.7	938.8
57.5°	1150.8	1091.1	971.9	884.1	822.5	764.9	754.5	760.4	773.3	806.8	860.0
60°	1075.8	1012.8	894.5	806.8	747.1	692.4	683.1	688.5	702.3	732.8	782.1
62.5°	1001.9	931.0	814.6	727.4	673.2	622.4	620.0	618.0	630.8	660.4	703.8
65°	912.2	844.2	731.4	648.6	599.3	553.4	543.6	548.0	560.3	587.5	632.8
67.5°	816.1	754.5	646.1	569.7	525.9	484.9	476.6	478.5	491.4	515.0	554.4
70°	714.1	659.9	558.9	490.4	453.4	415.0	409.5	410.0	422.4	443.1	477.6
72.5°	607.2	558.4	470.7	412.0	381.5	353.9	348.9	343.0	354.3	372.1	401.7
75°	498.3	455.4	382.9	335.1	311.0	287.8	283.4	277.5	288.8	304.1	327.2
77.5°	388.4	353.9	297.7	260.7	242.0	224.7	220.8	214.4	225.7	237.1	255.3
80°	280.9	255.8	222.3	183.3	176.9	165.6	161.6	154.7	165.6	173.0	186.8
82.5°	181.4	164.6	145.4	118.3	117.3	108.9	106.9	99.1	108.9	113.4	123.7
85°	91.7	83.8	78.9	60.1	62.1	56.7	56.2	47.8	55.7	57.7	63.6
87.5°	26.1	27.6	24.6	14.8	18.7	17.7	17.7	12.8	17.7	17.7	20.2
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: P837901

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-3HI-40-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2112.8	2112.8	2112.8	2112.8	2112.8	2112.8	2112.8	2112.8
2.5°	2114.7	2123.1	2125.1	2124.6	2130.0	2159.6	2149.7	2159.6
5°	2119.7	2138.4	2143.3	2150.2	2159.1	2192.6	2181.8	2193.6
7.5°	2122.6	2150.7	2161.6	2174.9	2189.2	2226.6	2217.7	2229.6
10°	2122.6	2159.1	2174.9	2197.0	2216.3	2259.6	2251.3	2265.0
12.5°	2113.8	2160.6	2182.7	2213.8	2238.4	2285.3	2281.8	2291.7
15°	2095.5	2153.2	2183.7	2223.7	2254.2	2306.4	2305.0	2316.8
17.5°	2070.9	2140.4	2177.3	2227.6	2266.0	2324.7	2328.1	2334.5
20°	2039.8	2116.2	2164.5	2226.1	2274.4	2339.0	2343.4	2352.3
22.5°	1998.9	2087.1	2145.3	2219.7	2275.4	2344.9	2352.8	2361.2
25°	1950.6	2052.1	2120.2	2207.4	2270.5	2344.4	2355.2	2362.6
27.5°	1895.4	2006.8	2088.1	2187.7	2256.7	2336.5	2349.8	2358.7
30°	1831.4	1958.5	2051.7	2162.0	2237.9	2321.7	2336.0	2344.9
32.5°	1765.3	1905.3	2008.3	2129.0	2210.8	2298.1	2310.4	2317.3
35°	1693.4	1840.7	1956.0	2086.6	2175.8	2260.1	2269.5	2276.9
37.5°	1615.0	1770.7	1896.4	2038.8	2126.6	2207.4	2215.8	2224.1
40°	1534.2	1697.3	1829.4	1980.2	2067.9	2142.8	2151.7	2157.6
42.5°	1452.9	1616.0	1757.9	1911.2	1998.4	2070.4	2075.8	2081.7
45°	1370.6	1531.7	1677.6	1834.8	1921.1	1988.6	1990.5	1995.5
47.5°	1286.8	1444.5	1589.4	1747.6	1832.8	1894.4	1896.4	1900.4
50°	1202.5	1357.3	1495.2	1653.4	1736.7	1801.8	1792.9	1796.9
52.5°	1119.7	1265.6	1406.5	1551.9	1634.2	1691.9	1694.4	1686.5
55°	1038.4	1175.9	1305.5	1445.5	1523.8	1568.7	1567.2	1570.2
57.5°	956.1	1085.2	1204.0	1332.1	1408.5	1450.9	1459.8	1449.4
60°	872.3	993.5	1100.0	1215.8	1289.7	1325.2	1335.6	1325.7
62.5°	789.0	900.4	997.0	1098.0	1166.5	1210.4	1209.4	1198.6
65°	705.7	806.8	893.0	978.8	1038.4	1082.3	1080.3	1070.4
67.5°	628.9	712.1	789.5	859.0	910.8	940.8	951.2	939.3
70°	544.1	616.0	684.0	739.7	782.6	809.7	819.6	809.2
72.5°	459.3	520.4	568.2	622.0	655.0	677.6	688.0	678.1
75°	375.5	425.8	464.7	506.6	529.8	549.0	560.8	551.0
77.5°	294.2	333.2	364.2	394.8	421.4	425.8	436.2	429.7
80°	216.8	244.9	267.6	287.8	307.0	309.0	317.4	313.4
82.5°	144.4	163.1	169.0	190.2	202.6	200.6	209.0	206.0
85°	76.4	87.7	98.1	104.5	111.4	105.0	112.4	109.4
87.5°	25.6	27.1	23.7	33.5	37.0	31.5	36.0	34.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)