

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: P837905

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-5LO-40-120-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: P837905
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-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

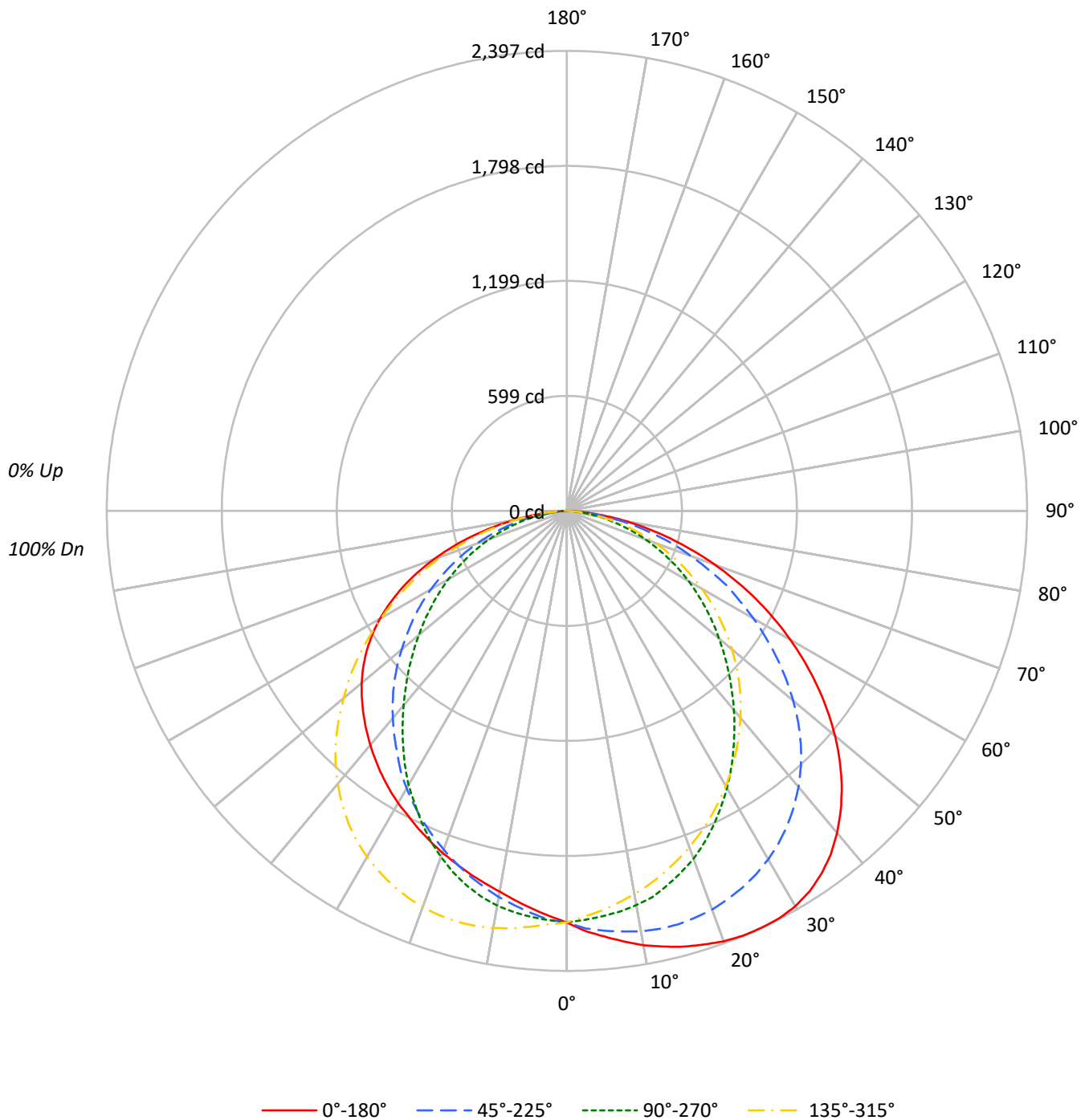
Lumens per Lamp: N/A
Luminaire Lumens: 6289.6 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	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°	5769	5769	5769	5769
5°	6012	5727	5619	5737
10°	6280	5698	5505	5706
15°	6549	5626	5451	5627
20°	6835	5523	5428	5492
25°	7118	5369	5427	5314
30°	7393	5182	5464	5125
35°	7590	4969	5518	4890
40°	7691	4755	5595	4648
45°	7706	4539	5703	4425
50°	7633	4332	5843	4216
55°	7475	4138	5973	4023
60°	7240	3937	6053	3835
65°	6916	3706	6021	3621
70°	6460	3435	5807	3372
75°	5813	3062	5330	3046
80°	4928	2565	4479	2603
85°	3427	1698	2841	1744

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.5	3.2
10°-20°	589.4	9.4
20°-30°	903.3	14.4
30°-40°	1098.3	17.5
40°-50°	1141.8	18.2
50°-60°	1031.4	16.4
60°-70°	784.1	12.5
70°-80°	437.1	7.0
80°-90°	100.6	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°	1696.2	27.0
0°-40°	2794.6	44.4
0°-60°	4967.7	79.0
0°-90°	6289.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6289.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2144	2144	2144	2144	2144	
5°	2226	2120	2080	2124	2226	215
15°	2351	2019	1957	2020	2351	667
25°	2397	1808	1828	1790	2397	1107
35°	2310	1513	1680	1489	2310	1443
45°	2025	1193	1499	1163	2025	1559
55°	1593	882	1273	858	1593	1422
65°	1086	582	946	569	1086	1073
75°	559	294	513	293	559	594
85°	111	55	92	56	111	140
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°	2143.8	2143.8	2143.8	2143.8	2143.8	2143.8	2143.8	2143.8	2143.8	2143.8	2143.8
2.5°	2191.3	2159.3	2159.8	2187.8	2166.3	2176.8	2146.8	2158.3	2154.8	2157.3	2132.8
5°	2225.8	2191.3	2190.8	2214.8	2190.8	2195.3	2157.3	2164.8	2153.8	2146.8	2120.3
7.5°	2262.3	2227.8	2224.3	2245.3	2213.8	2210.3	2168.3	2168.3	2148.3	2130.8	2105.8
10°	2298.3	2262.8	2258.3	2274.3	2235.3	2223.8	2172.8	2164.8	2138.3	2112.3	2085.3
12.5°	2325.3	2289.3	2285.8	2295.8	2251.8	2230.8	2172.8	2157.3	2118.3	2081.8	2060.8
15°	2350.8	2313.8	2304.3	2309.3	2258.8	2230.8	2165.8	2141.8	2091.8	2043.8	2019.3
17.5°	2368.8	2333.3	2323.8	2323.3	2262.3	2222.3	2150.8	2117.8	2057.8	1999.8	1975.3
20°	2386.8	2351.3	2339.3	2330.3	2261.3	2210.8	2128.8	2084.3	2014.3	1949.3	1928.8
22.5°	2395.8	2359.3	2346.3	2332.8	2254.8	2189.8	2101.8	2045.3	1965.3	1887.8	1870.8
25°	2397.3	2359.8	2345.8	2326.3	2241.8	2164.8	2066.8	1998.3	1908.8	1822.8	1808.3
27.5°	2393.3	2352.3	2338.3	2314.8	2222.3	2134.3	2025.3	1944.8	1848.8	1753.8	1738.3
30°	2379.3	2337.8	2324.3	2293.8	2194.8	2096.8	1979.8	1885.3	1782.3	1681.2	1667.7
32.5°	2351.3	2310.8	2299.8	2269.3	2164.8	2053.3	1926.8	1821.3	1708.7	1612.2	1592.2
35°	2310.3	2269.8	2262.8	2230.8	2122.8	2001.3	1868.8	1751.3	1630.7	1532.2	1512.7
37.5°	2256.8	2222.8	2212.3	2180.8	2073.3	1942.3	1802.3	1675.2	1551.2	1445.2	1433.2
40°	2189.3	2157.3	2149.3	2121.3	2015.8	1876.8	1730.3	1596.7	1469.2	1370.7	1353.7
42.5°	2112.3	2082.3	2077.8	2048.8	1944.8	1804.3	1652.2	1515.2	1383.7	1288.7	1271.7
45°	2024.8	1995.8	1994.8	1967.3	1867.3	1723.8	1570.2	1432.7	1300.2	1201.7	1192.7
47.5°	1928.3	1902.3	1902.3	1876.8	1780.8	1635.2	1485.7	1346.7	1216.2	1129.2	1113.2
50°	1823.3	1798.8	1791.3	1778.8	1685.2	1538.7	1396.7	1262.7	1133.2	1050.2	1034.7
52.5°	1711.2	1690.2	1695.2	1672.2	1581.7	1438.2	1306.7	1168.2	1049.7	974.1	958.6
55°	1593.2	1563.2	1567.7	1559.2	1473.7	1334.7	1205.7	1090.2	967.6	896.6	882.1
57.5°	1470.7	1431.7	1447.7	1442.7	1358.7	1228.7	1113.2	1001.6	886.1	820.6	806.6
60°	1345.2	1307.7	1324.2	1319.7	1240.7	1122.7	1017.6	914.1	805.1	745.6	731.6
62.5°	1216.2	1181.7	1196.7	1193.2	1120.7	1014.1	922.6	827.6	723.6	670.1	657.1
65°	1086.2	1053.2	1066.7	1064.2	997.1	916.1	825.1	738.1	641.6	595.1	582.1
67.5°	953.1	922.6	935.1	935.1	873.6	796.1	727.1	647.6	561.1	521.1	509.1
70°	821.1	792.6	803.6	802.6	750.6	687.6	628.1	557.1	479.6	446.6	436.6
72.5°	688.1	663.1	673.1	672.1	628.6	588.1	529.1	467.6	400.1	373.6	364.6
75°	559.1	535.6	545.1	544.1	508.6	470.6	431.1	380.1	322.0	303.5	294.5
77.5°	436.1	412.1	420.1	420.1	394.1	366.6	335.0	295.5	254.5	234.5	228.0
80°	318.0	306.5	302.5	303.0	285.5	267.5	251.5	213.5	183.5	170.0	165.5
82.5°	209.0	199.5	195.5	196.5	186.5	175.5	165.5	139.0	119.0	111.0	108.5
85°	111.0	104.0	100.5	103.0	101.0	95.0	90.0	72.0	59.5	56.5	55.0
87.5°	35.0	30.5	28.0	37.0	31.5	28.0	27.0	21.5	16.5	16.5	16.0
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°	2143.8	2143.8	2143.8	2143.8	2143.8	2143.8	2143.8	2143.8	2143.8	2143.8	2143.8
2.5°	2140.8	2140.8	2121.3	2116.8	2114.8	2117.3	2097.8	2094.3	2122.3	2112.8	2091.3
5°	2123.8	2122.8	2095.3	2090.3	2090.3	2087.3	2065.3	2060.3	2088.3	2080.3	2056.8
7.5°	2102.8	2099.8	2067.3	2063.8	2058.8	2056.8	2032.3	2028.8	2052.8	2047.8	2025.8
10°	2077.3	2074.3	2035.8	2033.3	2027.8	2023.8	2000.8	1998.3	2022.8	2014.8	1997.3
12.5°	2043.8	2038.3	1998.8	1996.3	1991.8	1990.3	1967.8	1966.8	1993.8	1985.8	1967.3
15°	1999.8	1995.3	1951.3	1952.3	1952.8	1952.8	1934.8	1933.8	1960.3	1956.8	1936.8
17.5°	1951.3	1945.3	1903.3	1906.3	1909.8	1913.8	1899.8	1902.3	1930.3	1925.8	1907.8
20°	1896.3	1890.3	1849.3	1857.8	1865.3	1873.3	1864.3	1871.3	1897.3	1895.3	1881.8
22.5°	1834.8	1828.8	1790.8	1803.8	1816.3	1831.3	1827.3	1835.3	1862.8	1862.3	1850.3
25°	1759.8	1761.3	1727.8	1743.8	1764.8	1785.8	1787.3	1800.3	1830.8	1827.8	1816.8
27.5°	1689.7	1691.7	1656.2	1683.2	1711.2	1738.3	1744.8	1762.8	1793.8	1791.3	1781.8
30°	1616.2	1618.7	1584.2	1621.2	1655.2	1688.2	1702.2	1726.8	1758.3	1758.3	1748.3
32.5°	1539.7	1544.2	1508.2	1557.7	1597.2	1635.7	1660.2	1685.7	1721.8	1720.8	1712.2
35°	1461.2	1466.2	1433.2	1496.2	1535.7	1582.7	1613.2	1647.2	1679.2	1679.7	1673.2
37.5°	1381.2	1387.2	1357.2	1426.2	1471.2	1526.7	1565.7	1599.7	1635.2	1637.2	1631.2
40°	1301.7	1308.2	1282.2	1348.7	1405.7	1467.7	1512.7	1552.7	1591.7	1592.7	1588.7
42.5°	1222.2	1229.2	1209.7	1274.7	1339.2	1405.7	1458.7	1504.2	1544.2	1546.7	1542.2
45°	1144.7	1150.7	1136.7	1207.7	1269.7	1342.2	1403.2	1454.7	1495.2	1498.7	1497.2
47.5°	1067.7	1073.2	1060.7	1125.7	1197.2	1274.2	1344.7	1401.7	1444.7	1448.7	1447.7
50°	992.1	996.6	983.1	1051.2	1122.2	1204.2	1277.7	1343.7	1391.7	1395.7	1395.2
52.5°	917.1	921.6	910.1	981.6	1046.2	1132.7	1212.7	1284.2	1331.7	1337.7	1338.7
55°	844.6	846.6	837.6	906.1	968.6	1059.2	1151.2	1220.7	1268.2	1273.2	1276.2
57.5°	772.1	772.6	765.1	830.6	890.6	983.1	1079.7	1152.7	1197.7	1202.7	1207.2
60°	700.1	699.6	691.1	754.6	812.1	903.6	1004.1	1076.7	1120.2	1124.7	1130.7
62.5°	628.6	627.1	619.6	678.1	732.1	822.6	923.6	993.6	1035.2	1038.2	1046.2
65°	557.6	556.1	549.1	603.1	652.1	738.6	837.6	904.1	941.6	945.6	944.1
67.5°	487.6	484.6	479.1	527.6	572.1	652.1	747.1	810.6	841.6	845.1	854.6
70°	417.6	414.1	401.6	453.1	492.1	563.6	652.1	708.6	734.6	738.1	736.6
72.5°	348.6	345.1	331.5	379.1	412.1	474.6	553.6	600.6	623.1	626.1	626.1
75°	281.5	279.5	271.0	307.0	334.5	385.6	452.6	491.6	509.1	512.6	511.6
77.5°	217.0	215.5	207.0	238.0	259.5	297.5	351.6	382.1	395.1	399.1	407.6
80°	155.5	155.0	141.5	172.0	181.5	213.5	253.0	276.5	283.5	289.0	295.0
82.5°	99.5	100.0	86.5	112.5	116.5	137.0	161.5	176.0	181.0	185.5	190.0
85°	48.5	50.5	43.0	59.5	60.0	70.5	81.0	86.5	88.5	92.0	96.0
87.5°	12.5	14.5	8.0	17.0	15.0	19.5	22.5	24.0	23.5	26.0	27.5
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°	2143.8	2143.8	2143.8	2143.8	2143.8	2143.8	2143.8	2143.8	2143.8	2143.8	2143.8
2.5°	2098.3	2114.3	2106.3	2132.3	2142.3	2126.3	2154.3	2154.8	2134.8	2158.3	2171.3
5°	2065.8	2082.3	2077.3	2104.3	2116.8	2102.8	2136.8	2143.3	2123.8	2150.3	2171.3
7.5°	2032.8	2052.3	2045.8	2073.3	2088.3	2077.3	2113.8	2124.3	2109.3	2138.3	2166.3
10°	2004.3	2020.8	2013.8	2042.8	2055.8	2046.8	2082.8	2102.3	2088.3	2123.8	2157.3
12.5°	1976.3	1989.8	1981.8	2005.8	2018.3	2006.8	2050.8	2068.8	2058.8	2095.8	2138.8
15°	1940.3	1955.3	1944.3	1965.8	1975.3	1965.3	2001.3	2032.3	2019.8	2060.3	2107.8
17.5°	1912.8	1921.3	1906.3	1923.3	1928.8	1915.3	1951.8	1982.3	1973.3	2017.3	2072.3
20°	1882.3	1889.3	1868.3	1877.8	1877.3	1860.3	1893.8	1923.8	1917.8	1966.3	2028.8
22.5°	1848.3	1851.8	1827.3	1829.3	1828.3	1800.3	1830.3	1860.8	1858.3	1907.3	1977.3
25°	1812.3	1812.8	1781.3	1780.3	1769.3	1736.3	1762.8	1797.3	1789.8	1842.8	1916.3
27.5°	1776.8	1771.8	1733.8	1724.8	1707.2	1667.7	1691.2	1722.3	1717.8	1769.8	1851.3
30°	1738.8	1732.3	1685.7	1669.2	1643.7	1598.2	1617.7	1646.7	1649.2	1694.7	1780.3
32.5°	1702.7	1686.2	1634.7	1610.7	1578.7	1525.7	1536.2	1565.7	1569.7	1615.7	1703.7
35°	1656.2	1645.2	1581.7	1540.7	1509.2	1451.2	1462.2	1482.7	1488.7	1533.7	1623.2
37.5°	1612.2	1594.7	1527.2	1477.2	1436.7	1375.7	1378.7	1399.7	1405.7	1451.2	1539.7
40°	1566.7	1541.7	1469.2	1410.7	1364.2	1300.2	1296.7	1318.7	1323.2	1367.7	1447.7
42.5°	1518.2	1488.2	1406.7	1342.7	1289.2	1224.2	1217.2	1236.2	1241.2	1284.7	1363.2
45°	1469.2	1433.2	1342.7	1272.7	1214.2	1147.7	1140.7	1155.2	1162.7	1203.7	1279.2
47.5°	1417.2	1375.2	1276.7	1198.7	1138.2	1071.7	1063.2	1077.7	1083.7	1124.2	1195.7
50°	1362.7	1311.7	1208.7	1122.7	1062.7	997.1	984.6	1001.6	1007.1	1045.2	1115.2
52.5°	1302.7	1246.2	1136.2	1046.2	986.1	923.6	908.6	925.1	931.6	968.6	1033.2
55°	1239.2	1178.2	1063.2	975.6	910.6	849.6	837.1	843.6	857.6	892.6	952.6
57.5°	1167.7	1107.2	986.1	897.1	834.6	776.1	765.6	771.6	784.6	818.6	872.6
60°	1091.7	1027.6	907.6	818.6	758.1	702.6	693.1	698.6	712.6	743.6	793.6
62.5°	1016.6	944.6	826.6	738.1	683.1	631.6	629.1	627.1	640.1	670.1	714.1
65°	925.6	856.6	742.1	658.1	608.1	561.6	551.6	556.1	568.6	596.1	642.1
67.5°	828.1	765.6	655.6	578.1	533.6	492.1	483.6	485.6	498.6	522.6	562.6
70°	724.6	669.6	567.1	497.6	460.1	421.1	415.6	416.1	428.6	449.6	484.6
72.5°	616.1	566.6	477.6	418.1	387.1	359.1	354.1	348.1	359.6	377.6	407.6
75°	505.6	462.1	388.6	340.0	315.5	292.0	287.5	281.5	293.0	308.5	332.0
77.5°	394.1	359.1	302.0	264.5	245.5	228.0	224.0	217.5	229.0	240.5	259.0
80°	285.0	259.5	225.5	186.0	179.5	168.0	164.0	157.0	168.0	175.5	189.5
82.5°	184.0	167.0	147.5	120.0	119.0	110.5	108.5	100.5	110.5	115.0	125.5
85°	93.0	85.0	80.0	61.0	63.0	57.5	57.0	48.5	56.5	58.5	64.5
87.5°	26.5	28.0	25.0	15.0	19.0	18.0	18.0	13.0	18.0	18.0	20.5
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: P837905

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-5LO-40-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2143.8	2143.8	2143.8	2143.8	2143.8	2143.8	2143.8	2143.8
2.5°	2145.8	2154.3	2156.3	2155.8	2161.3	2191.3	2181.3	2191.3
5°	2150.8	2169.8	2174.8	2181.8	2190.8	2224.8	2213.8	2225.8
7.5°	2153.8	2182.3	2193.3	2206.8	2221.3	2259.3	2250.3	2262.3
10°	2153.8	2190.8	2206.8	2229.3	2248.8	2292.8	2284.3	2298.3
12.5°	2144.8	2192.3	2214.8	2246.3	2271.3	2318.8	2315.3	2325.3
15°	2126.3	2184.8	2215.8	2256.3	2287.3	2340.3	2338.8	2350.8
17.5°	2101.3	2171.8	2209.3	2260.3	2299.3	2358.8	2362.3	2368.8
20°	2069.8	2147.3	2196.3	2258.8	2307.8	2373.3	2377.8	2386.8
22.5°	2028.3	2117.8	2176.8	2252.3	2308.8	2379.3	2387.3	2395.8
25°	1979.3	2082.3	2151.3	2239.8	2303.8	2378.8	2389.8	2397.3
27.5°	1923.3	2036.3	2118.8	2219.8	2289.8	2370.8	2384.3	2393.3
30°	1858.3	1987.3	2081.8	2193.8	2270.8	2355.8	2370.3	2379.3
32.5°	1791.3	1933.3	2037.8	2160.3	2243.3	2331.8	2344.3	2351.3
35°	1718.3	1867.8	1984.8	2117.3	2207.8	2293.3	2302.8	2310.3
37.5°	1638.7	1796.8	1924.3	2068.8	2157.8	2239.8	2248.3	2256.8
40°	1556.7	1722.3	1856.3	2009.3	2098.3	2174.3	2183.3	2189.3
42.5°	1474.2	1639.7	1783.8	1939.3	2027.8	2100.8	2106.3	2112.3
45°	1390.7	1554.2	1702.2	1861.8	1949.3	2017.8	2019.8	2024.8
47.5°	1305.7	1465.7	1612.7	1773.3	1859.8	1922.3	1924.3	1928.3
50°	1220.2	1377.2	1517.2	1677.7	1762.3	1828.3	1819.3	1823.3
52.5°	1136.2	1284.2	1427.2	1574.7	1658.2	1716.8	1719.3	1711.2
55°	1053.7	1193.2	1324.7	1466.7	1546.2	1591.7	1590.2	1593.2
57.5°	970.1	1101.2	1221.7	1351.7	1429.2	1472.2	1481.2	1470.7
60°	885.1	1008.1	1116.2	1233.7	1308.7	1344.7	1355.2	1345.2
62.5°	800.6	913.6	1011.6	1114.2	1183.7	1228.2	1227.2	1216.2
65°	716.1	818.6	906.1	993.1	1053.7	1098.2	1096.2	1086.2
67.5°	638.1	722.6	801.1	871.6	924.1	954.6	965.1	953.1
70°	552.1	625.1	694.1	750.6	794.1	821.6	831.6	821.1
72.5°	466.1	528.1	576.6	631.1	664.6	687.6	698.1	688.1
75°	381.1	432.1	471.6	514.1	537.6	557.1	569.1	559.1
77.5°	298.5	338.0	369.6	400.6	427.6	432.1	442.6	436.1
80°	220.0	248.5	271.5	292.0	311.5	313.5	322.0	318.0
82.5°	146.5	165.5	171.5	193.0	205.5	203.5	212.0	209.0
85°	77.5	89.0	99.5	106.0	113.0	106.5	114.0	111.0
87.5°	26.0	27.5	24.0	34.0	37.5	32.0	36.5	35.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)