

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: P837882

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-3STD-35-120-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: P837882
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-LD4-3STD-35-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

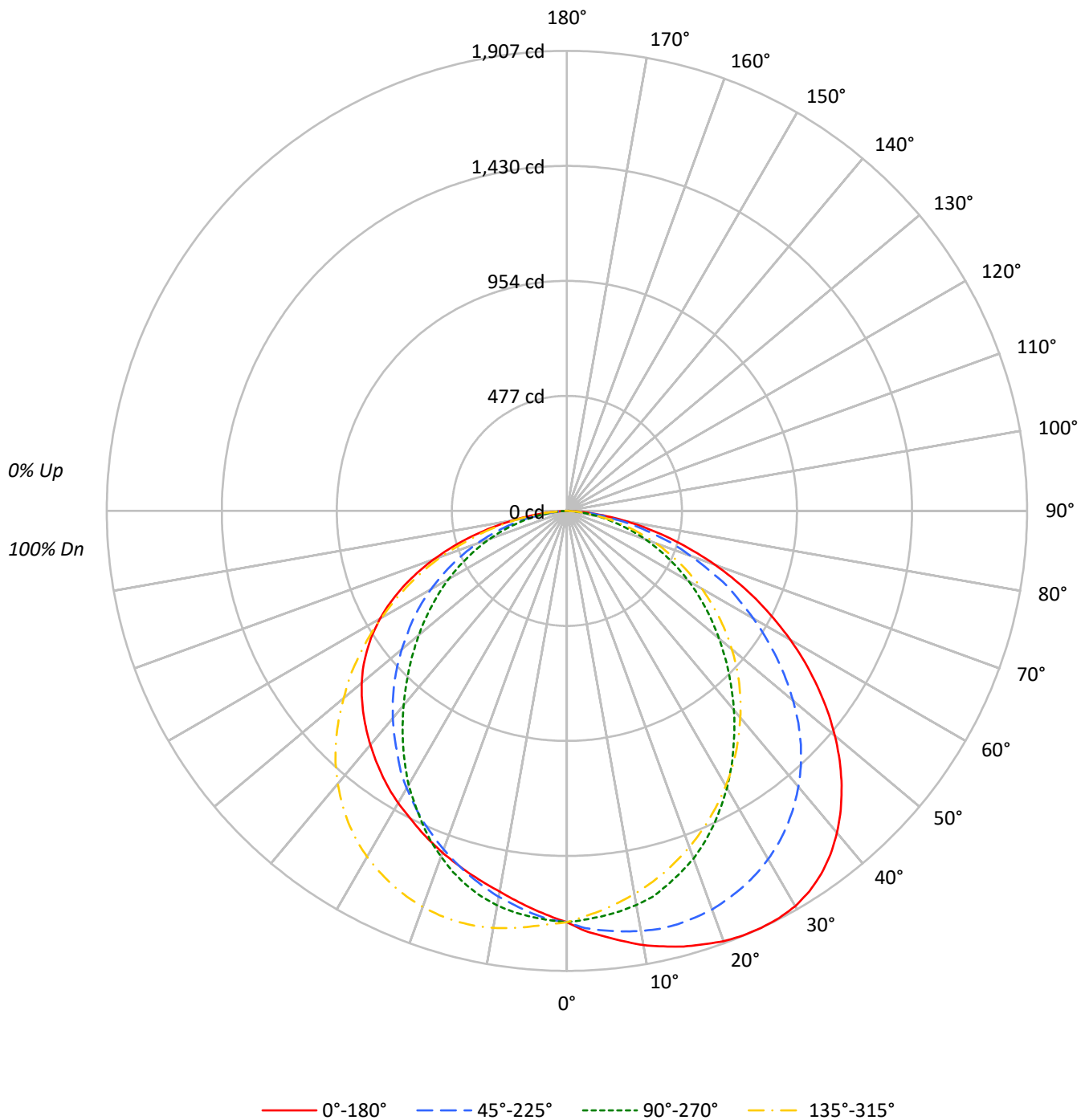
Lumens per Lamp: N/A
Luminaire Lumens: 5002.5 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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°	4588	4588	4588	4588
5°	4782	4555	4470	4563
10°	4995	4532	4379	4538
15°	5209	4474	4336	4475
20°	5436	4393	4317	4368
25°	5661	4270	4316	4227
30°	5880	4121	4345	4076
35°	6036	3952	4389	3890
40°	6117	3782	4450	3697
45°	6129	3610	4536	3519
50°	6071	3445	4647	3353
55°	5945	3292	4751	3200
60°	5758	3132	4814	3050
65°	5501	2948	4789	2879
70°	5139	2732	4619	2682
75°	4624	2436	4239	2424
80°	3921	2039	3563	2070
85°	2726	1352	2260	1386

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.9	3.2
10°-20°	468.8	9.4
20°-30°	718.4	14.4
30°-40°	873.6	17.5
40°-50°	908.1	18.2
50°-60°	820.3	16.4
60°-70°	623.6	12.5
70°-80°	347.7	7.0
80°-90°	80.0	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°	1349.1	27.0
0°-40°	2222.7	44.4
0°-60°	3951.1	79.0
0°-90°	5002.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5002.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1705	1705	1705	1705	1705	
5°	1770	1686	1655	1689	1770	171
15°	1870	1606	1556	1606	1870	530
25°	1907	1438	1454	1424	1907	881
35°	1838	1203	1336	1184	1838	1148
45°	1610	949	1192	925	1610	1240
55°	1267	702	1013	682	1267	1131
65°	864	463	752	452	864	854
75°	445	234	408	233	445	472
85°	88	44	73	45	88	111
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°	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1
2.5°	1742.9	1717.4	1717.8	1740.1	1723.0	1731.3	1707.5	1716.6	1713.8	1715.8	1696.3
5°	1770.3	1742.9	1742.5	1761.6	1742.5	1746.0	1715.8	1721.8	1713.0	1707.5	1686.4
7.5°	1799.3	1771.9	1769.1	1785.8	1760.8	1758.0	1724.6	1724.6	1708.7	1694.7	1674.8
10°	1828.0	1799.7	1796.2	1808.9	1777.9	1768.7	1728.1	1721.8	1700.7	1680.0	1658.5
12.5°	1849.4	1820.8	1818.0	1826.0	1791.0	1774.3	1728.1	1715.8	1684.8	1655.8	1639.0
15°	1869.7	1840.3	1832.7	1836.7	1796.6	1774.3	1722.6	1703.5	1663.7	1625.5	1606.0
17.5°	1884.1	1855.8	1848.3	1847.9	1799.3	1767.5	1710.6	1684.4	1636.7	1590.5	1571.0
20°	1898.4	1870.1	1860.6	1853.4	1798.5	1758.4	1693.1	1657.7	1602.1	1550.4	1534.0
22.5°	1905.5	1876.5	1866.2	1855.4	1793.4	1741.7	1671.7	1626.7	1563.1	1501.4	1487.9
25°	1906.7	1876.9	1865.8	1850.2	1783.0	1721.8	1643.8	1589.3	1518.1	1449.7	1438.2
27.5°	1903.5	1870.9	1859.8	1841.1	1767.5	1697.5	1610.8	1546.8	1470.4	1394.8	1382.5
30°	1892.4	1859.4	1848.7	1824.4	1745.6	1667.7	1574.6	1499.4	1417.5	1337.2	1326.4
32.5°	1870.1	1837.9	1829.2	1804.9	1721.8	1633.1	1532.5	1448.5	1359.0	1282.3	1266.4
35°	1837.5	1805.3	1799.7	1774.3	1688.4	1591.7	1486.3	1392.9	1297.0	1218.6	1203.1
37.5°	1795.0	1767.9	1759.6	1734.5	1649.0	1544.8	1433.4	1332.4	1233.8	1149.4	1139.9
40°	1741.3	1715.8	1709.4	1687.2	1603.3	1492.7	1376.1	1270.0	1168.5	1090.2	1076.7
42.5°	1680.0	1656.2	1652.6	1629.5	1546.8	1435.0	1314.1	1205.1	1100.5	1025.0	1011.4
45°	1610.4	1587.3	1586.5	1564.7	1485.1	1371.0	1248.9	1139.5	1034.1	955.7	948.6
47.5°	1533.7	1513.0	1513.0	1492.7	1416.3	1300.6	1181.7	1071.1	967.3	898.1	885.3
50°	1450.1	1430.6	1424.7	1414.7	1340.4	1223.8	1110.9	1004.3	901.3	835.2	822.9
52.5°	1361.0	1344.3	1348.3	1330.0	1258.0	1143.9	1039.3	929.1	834.8	774.8	762.5
55°	1267.2	1243.3	1246.9	1240.1	1172.1	1061.5	958.9	867.1	769.6	713.1	701.6
57.5°	1169.7	1138.7	1151.4	1147.5	1080.6	977.2	885.3	796.7	704.8	652.7	641.5
60°	1069.9	1040.1	1053.2	1049.6	986.8	892.9	809.4	727.1	640.3	593.0	581.9
62.5°	967.3	939.8	951.8	949.0	891.3	806.6	733.8	658.2	575.5	533.0	522.6
65°	863.9	837.6	848.4	846.4	793.1	728.6	656.3	587.1	510.3	473.3	463.0
67.5°	758.1	733.8	743.8	743.8	694.8	633.2	578.3	515.1	446.3	414.4	404.9
70°	653.1	630.4	639.2	638.4	597.0	546.9	499.6	443.1	381.4	355.2	347.2
72.5°	547.3	527.4	535.3	534.6	499.9	467.7	420.8	371.9	318.2	297.1	289.9
75°	444.7	426.0	433.5	432.7	404.5	374.3	342.8	302.3	256.1	241.4	234.3
77.5°	346.8	327.7	334.1	334.1	313.4	291.5	266.5	235.1	202.4	186.5	181.4
80°	253.0	243.8	240.6	241.0	227.1	212.8	200.1	169.8	146.0	135.2	131.6
82.5°	166.3	158.7	155.5	156.3	148.4	139.6	131.6	110.6	94.7	88.3	86.3
85°	88.3	82.7	79.9	81.9	80.3	75.6	71.6	57.3	47.3	44.9	43.8
87.5°	27.8	24.3	22.3	29.4	25.1	22.3	21.5	17.1	13.1	13.1	12.7
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°	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1
2.5°	1702.7	1702.7	1687.2	1683.6	1682.0	1684.0	1668.5	1665.7	1688.0	1680.4	1663.3
5°	1689.2	1688.4	1666.5	1662.5	1662.5	1660.1	1642.6	1638.7	1660.9	1654.6	1635.9
7.5°	1672.5	1670.1	1644.2	1641.4	1637.5	1635.9	1616.4	1613.6	1632.7	1628.7	1611.2
10°	1652.2	1649.8	1619.2	1617.2	1612.8	1609.6	1591.3	1589.3	1608.8	1602.5	1588.5
12.5°	1625.5	1621.2	1589.7	1587.7	1584.2	1583.0	1565.1	1564.3	1585.8	1579.4	1564.7
15°	1590.5	1586.9	1551.9	1552.7	1553.1	1553.1	1538.8	1538.0	1559.1	1556.3	1540.4
17.5°	1551.9	1547.2	1513.8	1516.2	1518.9	1522.1	1511.0	1513.0	1535.2	1531.7	1517.3
20°	1508.2	1503.4	1470.8	1477.6	1483.5	1489.9	1482.7	1488.3	1509.0	1507.4	1496.7
22.5°	1459.3	1454.5	1424.3	1434.6	1444.6	1456.5	1453.3	1459.7	1481.5	1481.2	1471.6
25°	1399.6	1400.8	1374.2	1386.9	1403.6	1420.3	1421.5	1431.8	1456.1	1453.7	1445.0
27.5°	1343.9	1345.5	1317.3	1338.8	1361.0	1382.5	1387.7	1402.0	1426.7	1424.7	1417.1
30°	1285.5	1287.5	1260.0	1289.4	1316.5	1342.7	1353.9	1373.4	1398.4	1398.4	1390.5
32.5°	1224.6	1228.2	1199.6	1238.9	1270.4	1301.0	1320.5	1340.8	1369.4	1368.6	1361.8
35°	1162.2	1166.1	1139.9	1190.0	1221.4	1258.8	1283.1	1310.1	1335.6	1336.0	1330.8
37.5°	1098.5	1103.3	1079.4	1134.3	1170.1	1214.3	1245.3	1272.3	1300.6	1302.2	1297.4
40°	1035.3	1040.5	1019.8	1072.7	1118.0	1167.3	1203.1	1235.0	1266.0	1266.8	1263.6
42.5°	972.1	977.6	962.1	1013.8	1065.1	1118.0	1160.2	1196.4	1228.2	1230.2	1226.6
45°	910.4	915.2	904.0	960.5	1009.8	1067.5	1116.0	1157.0	1189.2	1192.0	1190.8
47.5°	849.2	853.5	843.6	895.3	952.2	1013.4	1069.5	1114.8	1149.0	1152.2	1151.4
50°	789.1	792.7	781.9	836.0	892.5	957.7	1016.2	1068.7	1106.9	1110.1	1109.7
52.5°	729.4	733.0	723.9	780.7	832.1	900.9	964.5	1021.4	1059.2	1063.9	1064.7
55°	671.8	673.4	666.2	720.7	770.4	842.4	915.6	970.9	1008.6	1012.6	1015.0
57.5°	614.1	614.5	608.5	660.6	708.4	781.9	858.7	916.8	952.6	956.5	960.1
60°	556.8	556.4	549.7	600.2	645.9	718.7	798.6	856.3	890.9	894.5	899.3
62.5°	499.9	498.8	492.8	539.3	582.3	654.3	734.6	790.3	823.3	825.7	832.1
65°	443.5	442.3	436.7	479.7	518.6	587.4	666.2	719.1	748.9	752.1	750.9
67.5°	387.8	385.4	381.0	419.6	455.0	518.6	594.2	644.7	669.4	672.2	679.7
70°	332.1	329.3	319.4	360.3	391.4	448.2	518.6	563.6	584.3	587.1	585.9
72.5°	277.2	274.4	263.7	301.5	327.7	377.4	440.3	477.7	495.6	498.0	498.0
75°	223.9	222.3	215.6	244.2	266.1	306.7	359.9	391.0	404.9	407.7	406.9
77.5°	172.6	171.4	164.7	189.3	206.4	236.6	279.6	303.9	314.2	317.4	324.2
80°	123.7	123.3	112.6	136.8	144.4	169.8	201.3	219.9	225.5	229.9	234.7
82.5°	79.1	79.5	68.8	89.5	92.7	109.0	128.5	140.0	144.0	147.6	151.1
85°	38.6	40.2	34.2	47.3	47.7	56.1	64.4	68.8	70.4	73.2	76.4
87.5°	9.9	11.5	6.4	13.5	11.9	15.5	17.9	19.1	18.7	20.7	21.9
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°	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1
2.5°	1668.9	1681.6	1675.2	1695.9	1703.9	1691.2	1713.4	1713.8	1697.9	1716.6	1726.9
5°	1643.0	1656.2	1652.2	1673.7	1683.6	1672.5	1699.5	1704.7	1689.2	1710.2	1726.9
7.5°	1616.8	1632.3	1627.1	1649.0	1660.9	1652.2	1681.2	1689.6	1677.6	1700.7	1723.0
10°	1594.1	1607.2	1601.7	1624.7	1635.1	1627.9	1656.5	1672.1	1660.9	1689.2	1715.8
12.5°	1571.8	1582.6	1576.2	1595.3	1605.2	1596.1	1631.1	1645.4	1637.5	1666.9	1701.1
15°	1543.2	1555.1	1546.4	1563.5	1571.0	1563.1	1591.7	1616.4	1606.4	1638.7	1676.4
17.5°	1521.3	1528.1	1516.2	1529.7	1534.0	1523.3	1552.3	1576.6	1569.4	1604.4	1648.2
20°	1497.1	1502.6	1485.9	1493.5	1493.1	1479.6	1506.2	1530.1	1525.3	1563.9	1613.6
22.5°	1470.0	1472.8	1453.3	1454.9	1454.1	1431.8	1455.7	1480.0	1478.0	1516.9	1572.6
25°	1441.4	1441.8	1416.7	1415.9	1407.2	1380.9	1402.0	1429.4	1423.5	1465.6	1524.1
27.5°	1413.1	1409.2	1378.9	1371.8	1357.9	1326.4	1345.1	1369.8	1366.2	1407.6	1472.4
30°	1382.9	1377.7	1340.8	1327.6	1307.3	1271.1	1286.7	1309.7	1311.7	1347.9	1415.9
32.5°	1354.3	1341.1	1300.2	1281.1	1255.6	1213.5	1221.8	1245.3	1248.5	1285.1	1355.1
35°	1317.3	1308.5	1258.0	1225.4	1200.4	1154.2	1163.0	1179.3	1184.0	1219.8	1291.0
37.5°	1282.3	1268.4	1214.7	1174.9	1142.7	1094.2	1096.5	1113.2	1118.0	1154.2	1224.6
40°	1246.1	1226.2	1168.5	1122.0	1085.0	1034.1	1031.3	1048.8	1052.4	1087.8	1151.4
42.5°	1207.5	1183.6	1118.8	1067.9	1025.4	973.6	968.1	983.2	987.2	1021.8	1084.2
45°	1168.5	1139.9	1067.9	1012.2	965.7	912.8	907.2	918.8	924.7	957.3	1017.4
47.5°	1127.2	1093.8	1015.4	953.4	905.2	852.3	845.6	857.1	861.9	894.1	951.0
50°	1083.8	1043.2	961.3	892.9	845.2	793.1	783.1	796.7	801.0	831.3	886.9
52.5°	1036.1	991.1	903.6	832.1	784.3	734.6	722.7	735.8	741.0	770.4	821.7
55°	985.6	937.1	845.6	776.0	724.3	675.7	665.8	671.0	682.1	709.9	757.7
57.5°	928.7	880.6	784.3	713.5	663.8	617.3	608.9	613.7	624.0	651.1	694.0
60°	868.2	817.3	721.9	651.1	603.0	558.8	551.3	555.6	566.8	591.4	631.2
62.5°	808.6	751.3	657.4	587.1	543.3	502.3	500.3	498.8	509.1	533.0	568.0
65°	736.2	681.3	590.2	523.4	483.6	446.7	438.7	442.3	452.2	474.1	510.7
67.5°	658.6	608.9	521.4	459.8	424.4	391.4	384.6	386.2	396.5	415.6	447.4
70°	576.3	532.6	451.0	395.7	365.9	334.9	330.5	330.9	340.9	357.6	385.4
72.5°	490.0	450.6	379.8	332.5	307.8	285.6	281.6	276.8	286.0	300.3	324.2
75°	402.1	367.5	309.0	270.5	251.0	232.3	228.7	223.9	233.1	245.4	264.1
77.5°	313.4	285.6	240.2	210.4	195.3	181.4	178.2	173.0	182.2	191.3	206.0
80°	226.7	206.4	179.4	148.0	142.8	133.6	130.5	124.9	133.6	139.6	150.7
82.5°	146.4	132.8	117.3	95.5	94.7	87.9	86.3	79.9	87.9	91.5	99.8
85°	74.0	67.6	63.6	48.5	50.1	45.7	45.3	38.6	44.9	46.5	51.3
87.5°	21.1	22.3	19.9	11.9	15.1	14.3	14.3	10.3	14.3	14.3	16.3
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: P837882

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-3STD-35-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1
2.5°	1706.7	1713.4	1715.0	1714.6	1719.0	1742.9	1734.9	1742.9
5°	1710.6	1725.8	1729.7	1735.3	1742.5	1769.5	1760.8	1770.3
7.5°	1713.0	1735.7	1744.4	1755.2	1766.7	1796.9	1789.8	1799.3
10°	1713.0	1742.5	1755.2	1773.1	1788.6	1823.6	1816.8	1828.0
12.5°	1705.9	1743.7	1761.6	1786.6	1806.5	1844.3	1841.5	1849.4
15°	1691.2	1737.7	1762.3	1794.6	1819.2	1861.4	1860.2	1869.7
17.5°	1671.3	1727.3	1757.2	1797.7	1828.8	1876.1	1878.9	1884.1
20°	1646.2	1707.9	1746.8	1796.6	1835.5	1887.6	1891.2	1898.4
22.5°	1613.2	1684.4	1731.3	1791.4	1836.3	1892.4	1898.8	1905.5
25°	1574.2	1656.2	1711.0	1781.4	1832.3	1892.0	1900.8	1906.7
27.5°	1529.7	1619.6	1685.2	1765.5	1821.2	1885.6	1896.4	1903.5
30°	1478.0	1580.6	1655.8	1744.8	1806.1	1873.7	1885.2	1892.4
32.5°	1424.7	1537.6	1620.8	1718.2	1784.2	1854.6	1864.6	1870.1
35°	1366.6	1485.5	1578.6	1684.0	1756.0	1824.0	1831.6	1837.5
37.5°	1303.4	1429.0	1530.5	1645.4	1716.2	1781.4	1788.2	1795.0
40°	1238.1	1369.8	1476.4	1598.1	1668.9	1729.3	1736.5	1741.3
42.5°	1172.5	1304.2	1418.7	1542.4	1612.8	1670.9	1675.2	1680.0
45°	1106.1	1236.1	1353.9	1480.8	1550.4	1604.8	1606.4	1610.4
47.5°	1038.5	1165.7	1282.7	1410.4	1479.2	1528.9	1530.5	1533.7
50°	970.5	1095.4	1206.7	1334.4	1401.6	1454.1	1446.9	1450.1
52.5°	903.6	1021.4	1135.1	1252.5	1318.9	1365.4	1367.4	1361.0
55°	838.0	949.0	1053.6	1166.5	1229.8	1266.0	1264.8	1267.2
57.5°	771.6	875.8	971.7	1075.1	1136.7	1170.9	1178.1	1169.7
60°	704.0	801.8	887.7	981.2	1040.9	1069.5	1077.9	1069.9
62.5°	636.8	726.7	804.6	886.1	941.4	976.8	976.0	967.3
65°	569.6	651.1	720.7	789.9	838.0	873.4	871.8	863.9
67.5°	507.5	574.7	637.2	693.2	735.0	759.3	767.6	758.1
70°	439.1	497.2	552.1	597.0	631.6	653.5	661.4	653.1
72.5°	370.7	420.0	458.6	501.9	528.6	546.9	555.2	547.3
75°	303.1	343.6	375.1	408.9	427.6	443.1	452.6	444.7
77.5°	237.4	268.9	293.9	318.6	340.1	343.6	352.0	346.8
80°	175.0	197.7	216.0	232.3	247.8	249.4	256.1	253.0
82.5°	116.5	131.6	136.4	153.5	163.5	161.9	168.6	166.3
85°	61.6	70.8	79.1	84.3	89.9	84.7	90.7	88.3
87.5°	20.7	21.9	19.1	27.0	29.8	25.5	29.0	27.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)