

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: P837959

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-5LO-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: P837959
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-27-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

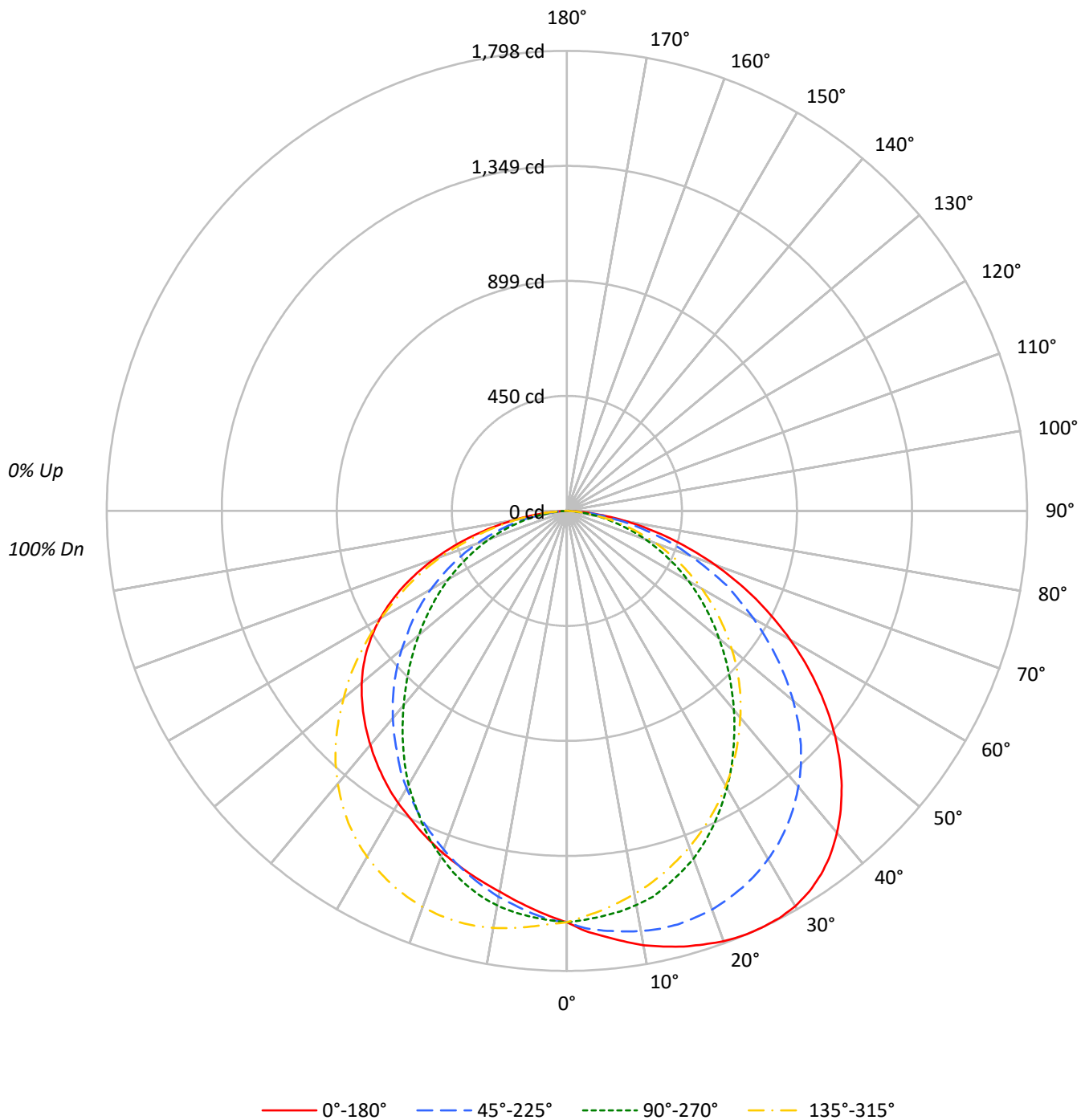
Lumens per Lamp: N/A
Luminaire Lumens: 4717.2 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	4327	4327	4327	4327
5°	4509	4296	4215	4303
10°	4710	4274	4129	4280
15°	4912	4219	4089	4220
20°	5126	4143	4071	4119
25°	5339	4027	4070	3986
30°	5545	3887	4098	3843
35°	5692	3727	4139	3668
40°	5768	3567	4196	3486
45°	5779	3404	4278	3318
50°	5725	3249	4382	3162
55°	5606	3104	4480	3018
60°	5430	2953	4540	2877
65°	5187	2780	4516	2715
70°	4845	2576	4356	2529
75°	4360	2297	3997	2285
80°	3696	1923	3360	1953
85°	2572	1275	2130	1309

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.7	3.2
10°-20°	442.1	9.4
20°-30°	677.5	14.4
30°-40°	823.8	17.5
40°-50°	856.3	18.2
50°-60°	773.5	16.4
60°-70°	588.1	12.5
70°-80°	327.9	7.0
80°-90°	75.5	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°	1272.2	27.0
0°-40°	2095.9	44.4
0°-60°	3725.8	79.0
0°-90°	4717.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4717.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1608	1608	1608	1608	1608	
5°	1669	1590	1560	1593	1669	161
15°	1763	1514	1468	1515	1763	500
25°	1798	1356	1371	1342	1798	830
35°	1733	1134	1260	1116	1733	1082
45°	1519	894	1124	872	1519	1169
55°	1195	662	955	643	1195	1067
65°	815	437	709	426	815	805
75°	419	221	384	220	419	445
85°	83	41	69	42	83	105
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°	1607.9	1607.9	1607.9	1607.9	1607.9	1607.9	1607.9	1607.9	1607.9	1607.9	1607.9
2.5°	1643.5	1619.5	1619.9	1640.9	1624.7	1632.6	1610.1	1618.7	1616.1	1618.0	1599.6
5°	1669.4	1643.5	1643.1	1661.1	1643.1	1646.5	1618.0	1623.6	1615.4	1610.1	1590.2
7.5°	1696.7	1670.9	1668.2	1684.0	1660.4	1657.7	1626.2	1626.2	1611.2	1598.1	1579.4
10°	1723.8	1697.1	1693.7	1705.7	1676.5	1667.9	1629.6	1623.6	1603.7	1584.2	1564.0
12.5°	1744.0	1717.0	1714.4	1721.9	1688.9	1673.1	1629.6	1618.0	1588.7	1561.4	1545.6
15°	1763.1	1735.4	1728.3	1732.0	1694.1	1673.1	1624.4	1606.4	1568.9	1532.8	1514.5
17.5°	1776.6	1750.0	1742.9	1742.5	1696.7	1666.7	1613.1	1588.4	1543.3	1499.8	1481.5
20°	1790.1	1763.5	1754.5	1747.8	1696.0	1658.1	1596.6	1563.2	1510.7	1462.0	1446.6
22.5°	1796.9	1769.5	1759.8	1749.6	1691.1	1642.4	1576.4	1534.0	1474.0	1415.8	1403.1
25°	1798.0	1769.9	1759.4	1744.8	1681.4	1623.6	1550.1	1498.7	1431.6	1367.1	1356.2
27.5°	1795.0	1764.3	1753.8	1736.1	1666.7	1600.7	1519.0	1458.6	1386.6	1315.3	1303.7
30°	1784.5	1753.4	1743.3	1720.4	1646.1	1572.6	1484.8	1414.0	1336.7	1260.9	1250.8
32.5°	1763.5	1733.1	1724.9	1702.0	1623.6	1540.0	1445.1	1365.9	1281.6	1209.2	1194.2
35°	1732.8	1702.4	1697.1	1673.1	1592.1	1501.0	1401.6	1313.4	1223.1	1149.2	1134.5
37.5°	1692.6	1667.1	1659.2	1635.6	1555.0	1456.7	1351.7	1256.4	1163.4	1083.9	1074.9
40°	1642.0	1618.0	1612.0	1591.0	1511.8	1407.6	1297.7	1197.5	1101.9	1028.0	1015.3
42.5°	1584.2	1561.7	1558.4	1536.6	1458.6	1353.2	1239.2	1136.4	1037.8	966.5	953.8
45°	1518.6	1496.8	1496.1	1475.5	1400.5	1292.8	1177.7	1074.5	975.1	901.3	894.5
47.5°	1446.2	1426.7	1426.7	1407.6	1335.6	1226.4	1114.3	1010.0	912.1	846.9	834.9
50°	1367.4	1349.1	1343.4	1334.1	1263.9	1154.0	1047.5	947.0	849.9	787.6	776.0
52.5°	1283.4	1267.7	1271.4	1254.2	1186.3	1078.7	980.0	876.1	787.2	730.6	719.0
55°	1194.9	1172.4	1175.8	1169.4	1105.3	1001.0	904.3	817.6	725.7	672.5	661.6
57.5°	1103.0	1073.8	1085.8	1082.0	1019.0	921.5	834.9	751.2	664.6	615.5	605.0
60°	1008.9	980.8	993.1	989.8	930.5	842.0	763.2	685.6	603.8	559.2	548.7
62.5°	912.1	886.3	897.5	894.9	840.5	760.6	692.0	620.7	542.7	502.6	492.8
65°	814.6	789.9	800.0	798.1	747.9	687.1	618.8	553.6	481.2	446.3	436.6
67.5°	714.9	692.0	701.4	701.4	655.2	597.1	545.3	485.7	420.8	390.8	381.8
70°	615.8	594.5	602.7	602.0	563.0	515.7	471.1	417.8	359.7	334.9	327.4
72.5°	516.1	497.3	504.8	504.1	471.4	441.1	396.8	350.7	300.0	280.2	273.4
75°	419.3	401.7	408.8	408.1	381.4	352.9	323.3	285.0	241.5	227.7	220.9
77.5°	327.0	309.0	315.0	315.0	295.5	274.9	251.3	221.7	190.9	175.9	171.0
80°	238.5	229.9	226.9	227.3	214.2	200.7	188.7	160.1	137.6	127.5	124.1
82.5°	156.8	149.6	146.6	147.4	139.9	131.6	124.1	104.3	89.3	83.3	81.4
85°	83.3	78.0	75.4	77.3	75.8	71.3	67.5	54.0	44.6	42.4	41.3
87.5°	26.3	22.9	21.0	27.8	23.6	21.0	20.3	16.1	12.4	12.4	12.0
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°	1607.9	1607.9	1607.9	1607.9	1607.9	1607.9	1607.9	1607.9	1607.9	1607.9	1607.9
2.5°	1605.6	1605.6	1591.0	1587.6	1586.1	1588.0	1573.4	1570.7	1591.7	1584.6	1568.5
5°	1592.9	1592.1	1571.5	1567.7	1567.7	1565.5	1549.0	1545.2	1566.2	1560.2	1542.6
7.5°	1577.1	1574.9	1550.5	1547.9	1544.1	1542.6	1524.2	1521.6	1539.6	1535.8	1519.3
10°	1558.0	1555.7	1526.8	1525.0	1520.8	1517.8	1500.6	1498.7	1517.1	1511.1	1498.0
12.5°	1532.8	1528.7	1499.1	1497.2	1493.8	1492.7	1475.8	1475.1	1495.3	1489.3	1475.5
15°	1499.8	1496.5	1463.5	1464.2	1464.6	1464.6	1451.1	1450.3	1470.2	1467.6	1452.6
17.5°	1463.5	1459.0	1427.5	1429.7	1432.3	1435.3	1424.8	1426.7	1447.7	1444.3	1430.8
20°	1422.2	1417.7	1387.0	1393.3	1399.0	1405.0	1398.2	1403.5	1423.0	1421.5	1411.3
22.5°	1376.1	1371.6	1343.1	1352.8	1362.2	1373.5	1370.4	1376.5	1397.1	1396.7	1387.7
25°	1319.8	1320.9	1295.8	1307.8	1323.6	1339.3	1340.4	1350.2	1373.1	1370.8	1362.6
27.5°	1267.3	1268.8	1242.2	1262.4	1283.4	1303.7	1308.6	1322.1	1345.3	1343.4	1336.3
30°	1212.2	1214.1	1188.2	1215.9	1241.4	1266.2	1276.7	1295.1	1318.7	1318.7	1311.2
32.5°	1154.8	1158.2	1131.2	1168.3	1197.9	1226.8	1245.2	1264.3	1291.3	1290.6	1284.2
35°	1095.9	1099.7	1074.9	1122.2	1151.8	1187.0	1209.9	1235.4	1259.4	1259.8	1254.9
37.5°	1035.9	1040.4	1017.9	1069.7	1103.4	1145.0	1174.3	1199.8	1226.4	1227.9	1223.4
40°	976.3	981.1	961.6	1011.5	1054.3	1100.8	1134.5	1164.5	1193.8	1194.5	1191.5
42.5°	916.6	921.9	907.3	956.0	1004.4	1054.3	1094.0	1128.2	1158.2	1160.0	1156.7
45°	858.5	863.0	852.5	905.8	952.3	1006.6	1052.4	1091.0	1121.4	1124.0	1122.9
47.5°	800.7	804.9	795.5	844.2	897.9	955.6	1008.5	1051.3	1083.5	1086.5	1085.8
50°	744.1	747.5	737.4	788.4	841.6	903.1	958.3	1007.8	1043.8	1046.8	1046.4
52.5°	687.9	691.2	682.6	736.2	784.6	849.5	909.5	963.1	998.8	1003.3	1004.0
55°	633.5	635.0	628.2	679.6	726.5	794.4	863.4	915.5	951.1	954.9	957.1
57.5°	579.1	579.5	573.8	623.0	668.0	737.4	809.7	864.5	898.3	902.0	905.4
60°	525.1	524.7	518.3	566.0	609.1	677.7	753.1	807.5	840.1	843.5	848.0
62.5°	471.4	470.3	464.7	508.6	549.1	617.0	692.7	745.2	776.4	778.6	784.6
65°	418.2	417.1	411.8	452.3	489.1	554.0	628.2	678.1	706.2	709.2	708.1
67.5°	365.7	363.4	359.3	395.7	429.1	489.1	560.3	608.0	631.2	633.8	641.0
70°	313.2	310.5	301.2	339.8	369.1	422.7	489.1	531.5	551.0	553.6	552.5
72.5°	261.4	258.8	248.7	284.3	309.0	355.9	415.2	450.4	467.3	469.6	469.6
75°	211.2	209.7	203.3	230.3	250.9	289.2	339.4	368.7	381.8	384.4	383.7
77.5°	162.8	161.6	155.3	178.5	194.7	223.2	263.7	286.5	296.3	299.3	305.7
80°	116.6	116.3	106.1	129.0	136.1	160.1	189.8	207.4	212.7	216.8	221.3
82.5°	74.6	75.0	64.9	84.4	87.4	102.8	121.1	132.0	135.8	139.1	142.5
85°	36.4	37.9	32.3	44.6	45.0	52.9	60.8	64.9	66.4	69.0	72.0
87.5°	9.4	10.9	6.0	12.8	11.3	14.6	16.9	18.0	17.6	19.5	20.6
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°	1607.9	1607.9	1607.9	1607.9	1607.9	1607.9	1607.9	1607.9	1607.9	1607.9	1607.9
2.5°	1573.7	1585.7	1579.7	1599.2	1606.7	1594.7	1615.7	1616.1	1601.1	1618.7	1628.5
5°	1549.4	1561.7	1558.0	1578.2	1587.6	1577.1	1602.6	1607.5	1592.9	1612.7	1628.5
7.5°	1524.6	1539.2	1534.3	1555.0	1566.2	1558.0	1585.4	1593.2	1582.0	1603.7	1624.7
10°	1503.2	1515.6	1510.3	1532.1	1541.8	1535.1	1562.1	1576.7	1566.2	1592.9	1618.0
12.5°	1482.2	1492.3	1486.3	1504.3	1513.7	1505.1	1538.1	1551.6	1544.1	1571.9	1604.1
15°	1455.2	1466.5	1458.2	1474.3	1481.5	1474.0	1501.0	1524.2	1514.8	1545.2	1580.9
17.5°	1434.6	1441.0	1429.7	1442.5	1446.6	1436.5	1463.8	1486.7	1480.0	1513.0	1554.2
20°	1411.7	1417.0	1401.2	1408.3	1408.0	1395.2	1420.3	1442.8	1438.3	1474.7	1521.6
22.5°	1386.2	1388.8	1370.4	1372.0	1371.2	1350.2	1372.7	1395.6	1393.7	1430.5	1483.0
25°	1359.2	1359.6	1335.9	1335.2	1326.9	1302.2	1322.1	1347.9	1342.3	1382.1	1437.2
27.5°	1332.6	1328.8	1300.3	1293.6	1280.4	1250.8	1268.4	1291.7	1288.3	1327.3	1388.5
30°	1304.1	1299.2	1264.3	1251.9	1232.8	1198.7	1213.3	1235.1	1236.9	1271.1	1335.2
32.5°	1277.1	1264.7	1226.1	1208.1	1184.0	1144.3	1152.2	1174.3	1177.3	1211.8	1277.8
35°	1242.2	1233.9	1186.3	1155.5	1131.9	1088.4	1096.7	1112.0	1116.5	1150.3	1217.4
37.5°	1209.2	1196.0	1145.4	1107.9	1077.5	1031.8	1034.0	1049.8	1054.3	1088.4	1154.8
40°	1175.0	1156.3	1101.9	1058.0	1023.1	975.1	972.5	989.0	992.4	1025.8	1085.8
42.5°	1138.7	1116.2	1055.0	1007.0	966.9	918.1	912.9	927.1	930.9	963.5	1022.4
45°	1101.9	1074.9	1007.0	954.5	910.6	860.8	855.5	866.4	872.0	902.8	959.4
47.5°	1062.9	1031.4	957.5	899.0	853.6	803.7	797.4	808.2	812.7	843.1	896.8
50°	1022.0	983.8	906.5	842.0	797.0	747.9	738.5	751.2	755.4	783.9	836.4
52.5°	977.0	934.6	852.1	784.6	739.6	692.7	681.5	693.9	698.7	726.5	774.9
55°	929.4	883.6	797.4	731.7	683.0	637.2	627.8	632.7	643.2	669.5	714.5
57.5°	875.8	830.4	739.6	672.8	626.0	582.1	574.2	578.7	588.5	614.0	654.5
60°	818.7	770.7	680.7	614.0	568.6	527.0	519.8	524.0	534.5	557.7	595.2
62.5°	762.5	708.5	620.0	553.6	512.3	473.7	471.8	470.3	480.1	502.6	535.6
65°	694.2	642.5	556.6	493.6	456.1	421.2	413.7	417.1	426.4	447.1	481.6
67.5°	621.1	574.2	491.7	433.6	400.2	369.1	362.7	364.2	373.9	391.9	421.9
70°	543.5	502.2	425.3	373.2	345.1	315.8	311.7	312.0	321.4	337.2	363.4
72.5°	462.1	424.9	358.2	313.5	290.3	269.3	265.5	261.0	269.7	283.2	305.7
75°	379.2	346.6	291.4	255.0	236.7	219.0	215.7	211.2	219.8	231.4	249.0
77.5°	295.5	269.3	226.5	198.4	184.2	171.0	168.0	163.1	171.8	180.4	194.3
80°	213.8	194.7	169.1	139.5	134.6	126.0	123.0	117.8	126.0	131.6	142.1
82.5°	138.0	125.3	110.6	90.0	89.3	82.9	81.4	75.4	82.9	86.3	94.1
85°	69.8	63.8	60.0	45.8	47.3	43.1	42.8	36.4	42.4	43.9	48.4
87.5°	19.9	21.0	18.8	11.3	14.3	13.5	13.5	9.8	13.5	13.5	15.4
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: P837959

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-5LO-27-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1607.9	1607.9	1607.9	1607.9	1607.9	1607.9	1607.9	1607.9
2.5°	1609.4	1615.7	1617.2	1616.9	1621.0	1643.5	1636.0	1643.5
5°	1613.1	1627.4	1631.1	1636.4	1643.1	1668.6	1660.4	1669.4
7.5°	1615.4	1636.7	1645.0	1655.1	1666.0	1694.5	1687.7	1696.7
10°	1615.4	1643.1	1655.1	1672.0	1686.6	1719.6	1713.2	1723.8
12.5°	1608.6	1644.2	1661.1	1684.7	1703.5	1739.1	1736.5	1744.0
15°	1594.7	1638.6	1661.9	1692.2	1715.5	1755.3	1754.1	1763.1
17.5°	1576.0	1628.9	1657.0	1695.2	1724.5	1769.1	1771.8	1776.6
20°	1552.4	1610.5	1647.2	1694.1	1730.9	1780.0	1783.4	1790.1
22.5°	1521.2	1588.4	1632.6	1689.2	1731.6	1784.5	1790.5	1796.9
25°	1484.5	1561.7	1613.5	1679.9	1727.9	1784.1	1792.4	1798.0
27.5°	1442.5	1527.2	1589.1	1664.9	1717.4	1778.1	1788.3	1795.0
30°	1393.7	1490.5	1561.4	1645.4	1703.1	1766.9	1777.8	1784.5
32.5°	1343.4	1450.0	1528.3	1620.2	1682.5	1748.9	1758.3	1763.5
35°	1288.7	1400.8	1488.6	1588.0	1655.9	1720.0	1727.1	1732.8
37.5°	1229.1	1347.6	1443.2	1551.6	1618.4	1679.9	1686.2	1692.6
40°	1167.5	1291.7	1392.2	1507.0	1573.7	1630.7	1637.5	1642.0
42.5°	1105.7	1229.8	1337.8	1454.5	1520.8	1575.6	1579.7	1584.2
45°	1043.0	1165.7	1276.7	1396.3	1462.0	1513.3	1514.8	1518.6
47.5°	979.3	1099.3	1209.6	1329.9	1394.8	1441.7	1443.2	1446.2
50°	915.1	1032.9	1137.9	1258.3	1321.7	1371.2	1364.4	1367.4
52.5°	852.1	963.1	1070.4	1181.0	1243.7	1287.6	1289.4	1283.4
55°	790.2	894.9	993.5	1100.0	1159.7	1193.8	1192.7	1194.9
57.5°	727.6	825.9	916.3	1013.8	1071.9	1104.2	1110.9	1103.0
60°	663.8	756.1	837.1	925.3	981.5	1008.5	1016.4	1008.9
62.5°	600.5	685.2	758.7	835.6	887.8	921.1	920.4	912.1
65°	537.1	614.0	679.6	744.9	790.2	823.6	822.1	814.6
67.5°	478.6	542.0	600.8	653.7	693.1	716.0	723.9	714.9
70°	414.1	468.8	520.6	563.0	595.6	616.2	623.7	615.8
72.5°	349.6	396.1	432.4	473.3	498.4	515.7	523.6	516.1
75°	285.8	324.0	353.7	385.6	403.2	417.8	426.8	419.3
77.5°	223.9	253.5	277.2	300.4	320.7	324.0	331.9	327.0
80°	165.0	186.4	203.7	219.0	233.7	235.2	241.5	238.5
82.5°	109.9	124.1	128.6	144.8	154.1	152.6	159.0	156.8
85°	58.1	66.8	74.6	79.5	84.8	79.9	85.5	83.3
87.5°	19.5	20.6	18.0	25.5	28.1	24.0	27.4	26.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)