

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: P837940

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-4HI-20-120-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: P837940
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-LD4-4HI-20-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 2000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

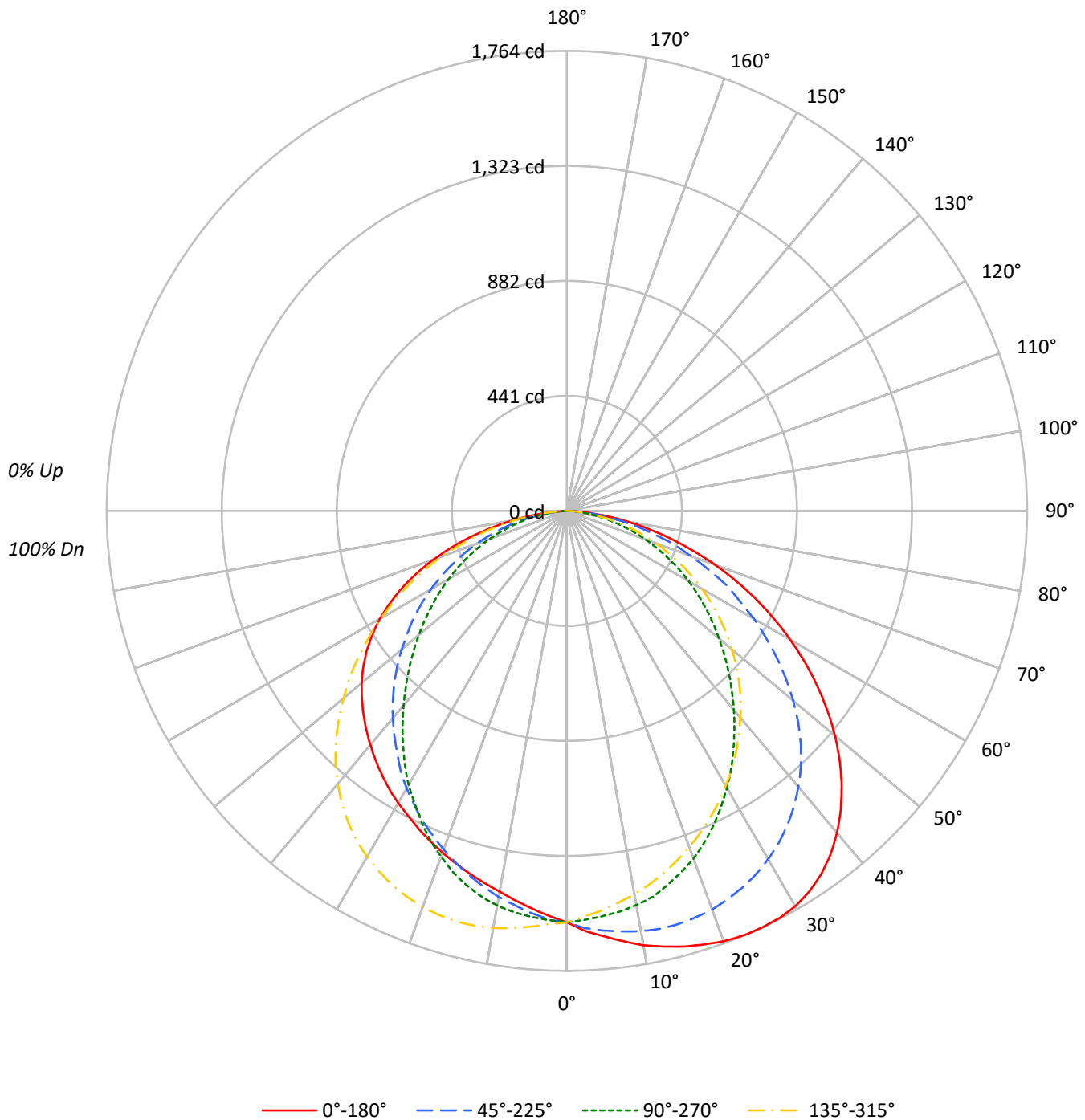
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4627.9 lumens
Efficiency: N/A
Efficacy: 52.6 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): 88
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

TEST NUMBER: P837940
CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-4HI-20-120-EDD-90

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P837940

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-4HI-20-120-EDD-90

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	94	97	94	91		94	91	89		90
2	99	91	84	78	96	89	82	77	85	80	75		82	77	73		79
3	90	79	71	65	88	78	70	64	75	68	63		72	66	62		69
4	82	70	61	55	80	69	61	54	66	59	53		64	58	53		62
5	76	63	54	47	74	62	53	47	59	52	46		57	51	46		56
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	36		47	40	35		46
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		42
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4245	4245	4245	4245
5°	4424	4214	4135	4221
10°	4621	4193	4051	4199
15°	4819	4139	4011	4140
20°	5029	4064	3993	4041
25°	5238	3950	3993	3910
30°	5440	3813	4020	3771
35°	5584	3657	4060	3598
40°	5659	3499	4117	3420
45°	5670	3340	4197	3256
50°	5617	3187	4299	3103
55°	5500	3045	4395	2960
60°	5327	2897	4454	2822
65°	5089	2727	4430	2664
70°	4754	2527	4273	2481
75°	4277	2253	3922	2242
80°	3626	1888	3296	1915
85°	2523	1250	2090	1284

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P837940

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-4HI-20-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.8	3.2
10°-20°	433.7	9.4
20°-30°	664.6	14.4
30°-40°	808.2	17.5
40°-50°	840.1	18.2
50°-60°	758.9	16.4
60°-70°	577.0	12.5
70°-80°	321.6	7.0
80°-90°	74.1	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°	1248.1	27.0
0°-40°	2056.3	44.4
0°-60°	3655.3	79.0
0°-90°	4627.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4627.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1577	1577	1577	1577	1577	
5°	1638	1560	1531	1563	1638	158
15°	1730	1486	1440	1486	1730	490
25°	1764	1330	1345	1317	1764	815
35°	1700	1113	1236	1095	1700	1062
45°	1490	878	1103	856	1490	1147
55°	1172	649	937	631	1172	1047
65°	799	428	696	418	799	790
75°	411	217	377	216	411	437
85°	82	40	68	42	82	103
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P837940

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-4HI-20-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1577.4	1577.4	1577.4	1577.4	1577.4	1577.4	1577.4	1577.4	1577.4	1577.4	1577.4
2.5°	1612.4	1588.8	1589.2	1609.8	1594.0	1601.7	1579.6	1588.1	1585.5	1587.4	1569.3
5°	1637.8	1612.4	1612.0	1629.7	1612.0	1615.3	1587.4	1592.9	1584.8	1579.6	1560.1
7.5°	1664.6	1639.2	1636.7	1652.1	1628.9	1626.4	1595.4	1595.4	1580.7	1567.9	1549.5
10°	1691.1	1665.0	1661.7	1673.5	1644.8	1636.3	1598.8	1592.9	1573.4	1554.2	1534.4
12.5°	1711.0	1684.5	1681.9	1689.3	1656.9	1641.4	1598.8	1587.4	1558.7	1531.8	1516.3
15°	1729.8	1702.5	1695.5	1699.2	1662.0	1641.4	1593.6	1575.9	1539.2	1503.8	1485.8
17.5°	1743.0	1716.9	1709.9	1709.5	1664.6	1635.2	1582.6	1558.3	1514.1	1471.4	1453.4
20°	1756.2	1730.1	1721.3	1714.7	1663.9	1626.7	1566.4	1533.6	1482.1	1434.3	1419.2
22.5°	1762.9	1736.0	1726.4	1716.5	1659.1	1611.3	1546.5	1504.9	1446.1	1389.0	1376.5
25°	1764.0	1736.4	1726.1	1711.7	1649.5	1592.9	1520.8	1470.3	1404.5	1341.2	1330.5
27.5°	1761.0	1730.9	1720.6	1703.3	1635.2	1570.4	1490.2	1431.0	1360.3	1290.4	1279.0
30°	1750.7	1720.2	1710.3	1687.8	1615.0	1542.8	1456.7	1387.2	1311.4	1237.1	1227.1
32.5°	1730.1	1700.3	1692.2	1669.8	1592.9	1510.8	1417.7	1340.1	1257.3	1186.3	1171.6
35°	1699.9	1670.1	1665.0	1641.4	1562.0	1472.6	1375.0	1288.6	1199.9	1127.4	1113.1
37.5°	1660.6	1635.6	1627.8	1604.6	1525.5	1429.1	1326.1	1232.6	1141.4	1063.4	1054.6
40°	1610.9	1587.4	1581.5	1560.9	1483.2	1380.9	1273.1	1174.9	1081.0	1008.6	996.1
42.5°	1554.2	1532.2	1528.8	1507.5	1431.0	1327.6	1215.7	1114.9	1018.1	948.2	935.7
45°	1489.8	1468.5	1467.8	1447.5	1373.9	1268.3	1155.4	1054.2	956.7	884.2	877.6
47.5°	1418.8	1399.7	1399.7	1380.9	1310.3	1203.2	1093.2	990.9	894.9	830.8	819.1
50°	1341.6	1323.5	1318.0	1308.8	1240.0	1132.2	1027.7	929.1	833.8	772.7	761.3
52.5°	1259.1	1243.7	1247.4	1230.4	1163.8	1058.2	961.5	859.5	772.3	716.8	705.4
55°	1172.3	1150.2	1153.5	1147.3	1084.4	982.1	887.1	802.1	712.0	659.7	649.1
57.5°	1082.2	1053.5	1065.2	1061.5	999.7	904.1	819.1	737.0	652.0	603.8	593.5
60°	989.8	962.2	974.3	971.0	912.9	826.1	748.8	672.6	592.4	548.6	538.3
62.5°	894.9	869.5	880.5	877.9	824.6	746.2	678.9	609.0	532.4	493.1	483.5
65°	799.2	774.9	784.8	783.0	733.7	674.1	607.1	543.1	472.1	437.9	428.3
67.5°	701.3	678.9	688.1	688.1	642.8	585.8	535.0	476.5	412.8	383.4	374.6
70°	604.2	583.2	591.3	590.6	552.3	505.9	462.2	409.9	352.9	328.6	321.2
72.5°	506.3	487.9	495.3	494.5	462.5	432.7	389.3	344.0	294.4	274.9	268.2
75°	411.4	394.1	401.1	400.3	374.2	346.2	317.2	279.6	237.0	223.3	216.7
77.5°	320.9	303.2	309.1	309.1	289.9	269.7	246.5	217.5	187.3	172.6	167.8
80°	234.0	225.6	222.6	223.0	210.1	196.9	185.1	157.1	135.0	125.1	121.8
82.5°	153.8	146.8	143.9	144.6	137.2	129.2	121.8	102.3	87.6	81.7	79.8
85°	81.7	76.5	74.0	75.8	74.3	69.9	66.2	53.0	43.8	41.6	40.5
87.5°	25.8	22.4	20.6	27.2	23.2	20.6	19.9	15.8	12.1	12.1	11.8
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: P837940

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-4HI-20-120-EDD-90

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1577.4	1577.4	1577.4	1577.4	1577.4	1577.4	1577.4	1577.4	1577.4	1577.4	1577.4
2.5°	1575.2	1575.2	1560.9	1557.6	1556.1	1557.9	1543.6	1541.0	1561.6	1554.6	1538.8
5°	1562.7	1562.0	1541.7	1538.0	1538.0	1535.8	1519.7	1516.0	1536.6	1530.7	1513.4
7.5°	1547.2	1545.0	1521.1	1518.5	1514.9	1513.4	1495.4	1492.8	1510.5	1506.8	1490.6
10°	1528.5	1526.3	1497.9	1496.1	1492.1	1489.1	1472.2	1470.3	1488.4	1482.5	1469.6
12.5°	1503.8	1499.8	1470.7	1468.9	1465.6	1464.5	1447.9	1447.2	1467.0	1461.1	1447.5
15°	1471.4	1468.1	1435.8	1436.5	1436.9	1436.9	1423.6	1422.9	1442.4	1439.8	1425.1
17.5°	1435.8	1431.3	1400.4	1402.6	1405.2	1408.2	1397.9	1399.7	1420.3	1417.0	1403.7
20°	1395.3	1390.9	1360.7	1366.9	1372.5	1378.4	1371.7	1376.9	1396.0	1394.5	1384.6
22.5°	1350.0	1345.6	1317.6	1327.2	1336.4	1347.4	1344.5	1350.4	1370.6	1370.3	1361.4
25°	1294.8	1295.9	1271.3	1283.1	1298.5	1314.0	1315.1	1324.6	1347.1	1344.9	1336.8
27.5°	1243.3	1244.8	1218.7	1238.5	1259.1	1279.0	1283.8	1297.0	1319.9	1318.0	1311.0
30°	1189.2	1191.1	1165.7	1192.9	1217.9	1242.2	1252.5	1270.5	1293.7	1293.7	1286.4
32.5°	1132.9	1136.2	1109.7	1146.2	1175.2	1203.6	1221.6	1240.4	1266.9	1266.1	1259.9
35°	1075.2	1078.8	1054.6	1100.9	1130.0	1164.6	1187.0	1212.0	1235.6	1236.0	1231.2
37.5°	1016.3	1020.7	998.6	1049.4	1082.5	1123.4	1152.1	1177.1	1203.2	1204.7	1200.3
40°	957.8	962.6	943.4	992.4	1034.3	1079.9	1113.1	1142.5	1171.2	1171.9	1169.0
42.5°	899.3	904.4	890.1	937.9	985.4	1034.3	1073.3	1106.8	1136.2	1138.1	1134.8
45°	842.2	846.7	836.4	888.6	934.2	987.6	1032.5	1070.4	1100.2	1102.8	1101.7
47.5°	785.6	789.6	780.4	828.3	880.9	937.5	989.4	1031.4	1063.0	1066.0	1065.2
50°	730.0	733.3	723.4	773.4	825.7	886.0	940.1	988.7	1024.0	1027.0	1026.6
52.5°	674.8	678.1	669.7	722.3	769.8	833.4	892.3	944.9	979.9	984.3	985.0
55°	621.5	622.9	616.3	666.7	712.7	779.3	847.0	898.2	933.1	936.8	939.0
57.5°	568.1	568.5	563.0	611.2	655.3	723.4	794.4	848.1	881.3	884.9	888.2
60°	515.1	514.8	508.5	555.2	597.6	664.9	738.9	792.2	824.2	827.5	831.9
62.5°	462.5	461.4	455.9	498.9	538.7	605.3	679.6	731.1	761.7	763.9	769.8
65°	410.3	409.2	404.0	443.8	479.8	543.5	616.3	665.3	692.9	695.8	694.7
67.5°	358.8	356.5	352.5	388.2	420.9	479.8	549.7	596.5	619.3	621.8	628.8
70°	307.2	304.7	295.5	333.4	362.1	414.7	479.8	521.4	540.5	543.1	542.0
72.5°	256.5	253.9	244.0	278.9	303.2	349.2	407.3	441.9	458.5	460.7	460.7
75°	207.2	205.7	199.4	225.9	246.2	283.7	333.0	361.7	374.6	377.2	376.4
77.5°	159.7	158.6	152.3	175.1	191.0	218.9	258.7	281.1	290.7	293.6	299.9
80°	114.4	114.1	104.1	126.6	133.6	157.1	186.2	203.5	208.6	212.7	217.1
82.5°	73.2	73.6	63.7	82.8	85.7	100.8	118.8	129.5	133.2	136.5	139.8
85°	35.7	37.2	31.6	43.8	44.2	51.9	59.6	63.7	65.1	67.7	70.6
87.5°	9.2	10.7	5.9	12.5	11.0	14.4	16.6	17.7	17.3	19.1	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: P837940

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-4HI-20-120-EDD-90

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1577.4	1577.4	1577.4	1577.4	1577.4	1577.4	1577.4	1577.4	1577.4	1577.4	1577.4
2.5°	1543.9	1555.7	1549.8	1569.0	1576.3	1564.5	1585.1	1585.5	1570.8	1588.1	1597.7
5°	1520.0	1532.2	1528.5	1548.4	1557.6	1547.2	1572.3	1577.1	1562.7	1582.2	1597.7
7.5°	1495.7	1510.1	1505.3	1525.5	1536.6	1528.5	1555.3	1563.1	1552.0	1573.4	1594.0
10°	1474.8	1486.9	1481.8	1503.1	1512.7	1506.0	1532.5	1546.9	1536.6	1562.7	1587.4
12.5°	1454.2	1464.1	1458.2	1475.9	1485.1	1476.6	1509.0	1522.2	1514.9	1542.1	1573.7
15°	1427.7	1438.7	1430.6	1446.4	1453.4	1446.1	1472.6	1495.4	1486.2	1516.0	1550.9
17.5°	1407.4	1413.7	1402.6	1415.2	1419.2	1409.3	1436.1	1458.6	1451.9	1484.3	1524.8
20°	1385.0	1390.1	1374.7	1381.7	1381.3	1368.8	1393.4	1415.5	1411.1	1446.8	1492.8
22.5°	1360.0	1362.5	1344.5	1346.0	1345.2	1324.6	1346.7	1369.2	1367.3	1403.4	1454.9
25°	1333.5	1333.8	1310.7	1309.9	1301.8	1277.5	1297.0	1322.4	1316.9	1355.9	1410.0
27.5°	1307.3	1303.7	1275.7	1269.1	1256.2	1227.1	1244.4	1267.2	1263.9	1302.2	1362.2
30°	1279.4	1274.6	1240.4	1228.2	1209.5	1176.0	1190.3	1211.7	1213.5	1247.0	1309.9
32.5°	1252.9	1240.7	1202.8	1185.2	1161.6	1122.6	1130.4	1152.1	1155.0	1188.9	1253.6
35°	1218.7	1210.6	1163.8	1133.7	1110.5	1067.8	1075.9	1091.0	1095.4	1128.5	1194.4
37.5°	1186.3	1173.4	1123.7	1086.9	1057.1	1012.2	1014.4	1029.9	1034.3	1067.8	1132.9
40°	1152.8	1134.4	1081.0	1038.0	1003.8	956.7	954.1	970.3	973.6	1006.4	1065.2
42.5°	1117.1	1095.0	1035.1	988.0	948.6	900.8	895.6	909.6	913.3	945.3	1003.0
45°	1081.0	1054.6	988.0	936.4	893.4	844.5	839.3	850.0	855.5	885.7	941.2
47.5°	1042.8	1011.9	939.4	882.0	837.5	788.5	782.3	792.9	797.4	827.2	879.8
50°	1002.7	965.1	889.3	826.1	781.9	733.7	724.5	737.0	741.1	769.0	820.5
52.5°	958.5	916.9	836.0	769.8	725.6	679.6	668.6	680.7	685.5	712.7	760.2
55°	911.8	866.9	782.3	717.9	670.0	625.2	616.0	620.7	631.0	656.8	701.0
57.5°	859.2	814.7	725.6	660.1	614.1	571.1	563.3	567.8	577.3	602.3	642.1
60°	803.2	756.1	667.8	602.3	557.8	517.0	510.0	514.0	524.3	547.1	583.9
62.5°	748.1	695.1	608.2	543.1	502.6	464.7	462.9	461.4	471.0	493.1	525.4
65°	681.1	630.3	546.0	484.2	447.4	413.2	405.9	409.2	418.4	438.6	472.5
67.5°	609.3	563.3	482.4	425.4	392.6	362.1	355.8	357.3	366.9	384.5	413.9
70°	533.2	492.7	417.3	366.1	338.5	309.8	305.8	306.1	315.3	330.8	356.5
72.5°	453.3	416.9	351.4	307.6	284.8	264.2	260.5	256.1	264.6	277.8	299.9
75°	372.0	340.0	285.9	250.2	232.2	214.9	211.6	207.2	215.6	227.0	244.3
77.5°	289.9	264.2	222.2	194.6	180.7	167.8	164.8	160.1	168.5	177.0	190.6
80°	209.7	191.0	165.9	136.9	132.1	123.6	120.7	115.5	123.6	129.2	139.5
82.5°	135.4	122.9	108.5	88.3	87.6	81.3	79.8	74.0	81.3	84.6	92.4
85°	68.4	62.6	58.9	44.9	46.4	42.3	41.9	35.7	41.6	43.1	47.5
87.5°	19.5	20.6	18.4	11.0	14.0	13.2	13.2	9.6	13.2	13.2	15.1
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: P837940

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-4HI-20-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1577.4	1577.4	1577.4	1577.4	1577.4	1577.4	1577.4	1577.4
2.5°	1578.9	1585.1	1586.6	1586.3	1590.3	1612.4	1605.0	1612.4
5°	1582.6	1596.6	1600.2	1605.4	1612.0	1637.0	1628.9	1637.8
7.5°	1584.8	1605.8	1613.8	1623.8	1634.5	1662.4	1655.8	1664.6
10°	1584.8	1612.0	1623.8	1640.3	1654.7	1687.1	1680.8	1691.1
12.5°	1578.2	1613.1	1629.7	1652.9	1671.2	1706.2	1703.6	1711.0
15°	1564.5	1607.6	1630.4	1660.2	1683.0	1722.0	1720.9	1729.8
17.5°	1546.1	1598.0	1625.6	1663.2	1691.9	1735.6	1738.2	1743.0
20°	1523.0	1580.0	1616.1	1662.0	1698.1	1746.3	1749.6	1756.2
22.5°	1492.4	1558.3	1601.7	1657.3	1698.8	1750.7	1756.6	1762.9
25°	1456.4	1532.2	1582.9	1648.1	1695.2	1750.4	1758.5	1764.0
27.5°	1415.2	1498.3	1559.0	1633.3	1684.9	1744.5	1754.4	1761.0
30°	1367.3	1462.2	1531.8	1614.2	1670.9	1733.4	1744.1	1750.7
32.5°	1318.0	1422.5	1499.4	1589.6	1650.6	1715.8	1725.0	1730.1
35°	1264.3	1374.3	1460.4	1557.9	1624.5	1687.4	1694.4	1699.9
37.5°	1205.8	1322.1	1415.9	1522.2	1587.7	1648.1	1654.3	1660.6
40°	1145.4	1267.2	1365.8	1478.4	1543.9	1599.9	1606.5	1610.9
42.5°	1084.7	1206.5	1312.5	1426.9	1492.1	1545.8	1549.8	1554.2
45°	1023.3	1143.6	1252.5	1369.9	1434.3	1484.7	1486.2	1489.8
47.5°	960.7	1078.5	1186.7	1304.8	1368.4	1414.4	1415.9	1418.8
50°	897.8	1013.3	1116.4	1234.5	1296.7	1345.2	1338.6	1341.6
52.5°	836.0	944.9	1050.1	1158.7	1220.1	1263.2	1265.0	1259.1
55°	775.3	877.9	974.7	1079.2	1137.7	1171.2	1170.1	1172.3
57.5°	713.8	810.2	898.9	994.6	1051.6	1083.3	1089.9	1082.2
60°	651.3	741.8	821.3	907.7	962.9	989.4	997.2	989.8
62.5°	589.1	672.3	744.4	819.8	870.9	903.7	903.0	894.9
65°	526.9	602.3	666.7	730.8	775.3	808.0	806.6	799.2
67.5°	469.5	531.7	589.5	641.3	680.0	702.4	710.2	701.3
70°	406.2	459.9	510.7	552.3	584.3	604.5	611.9	604.2
72.5°	342.9	388.6	424.3	464.4	489.0	505.9	513.7	506.3
75°	280.4	317.9	347.0	378.3	395.6	409.9	418.7	411.4
77.5°	219.7	248.7	271.9	294.7	314.6	317.9	325.6	320.9
80°	161.9	182.9	199.8	214.9	229.2	230.7	237.0	234.0
82.5°	107.8	121.8	126.2	142.0	151.2	149.8	156.0	153.8
85°	57.0	65.5	73.2	78.0	83.2	78.4	83.9	81.7
87.5°	19.1	20.2	17.7	25.0	27.6	23.5	26.9	25.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)