

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: P837972

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-3STD-30-120-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: P837972
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-30-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and RFI grid
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

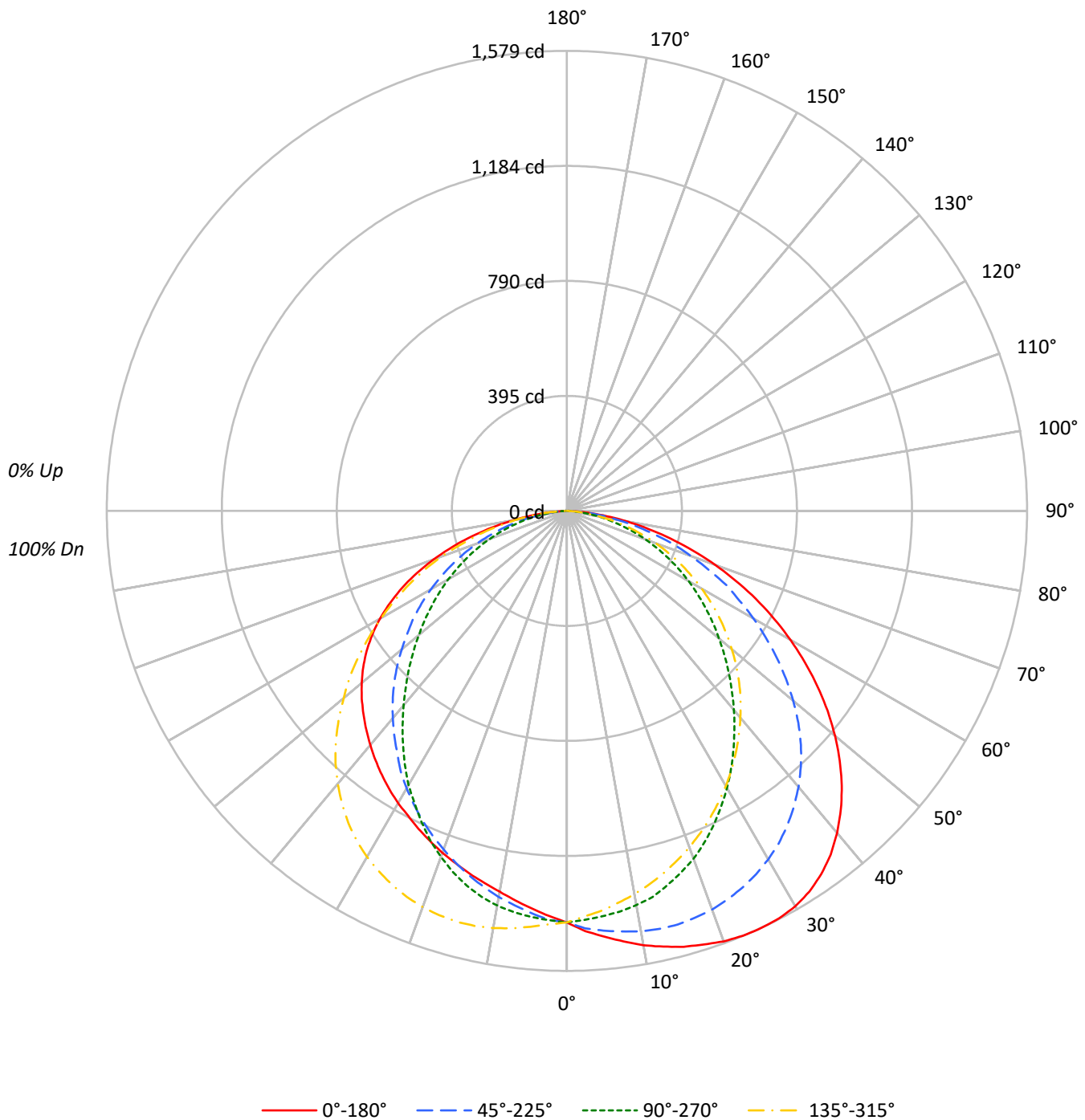
Lumens per Lamp: N/A
Luminaire Lumens: 4143.5 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P837972

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-3STD-30-120-EDD-90

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P837972

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-3STD-30-120-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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	86	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	72	72	70
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	61	61	59
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	52	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	45	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	40	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	35	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	31	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	28	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	26	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	3800	3800	3800	3800
5°	3961	3773	3702	3779
10°	4137	3754	3627	3759
15°	4315	3706	3591	3707
20°	4503	3639	3576	3618
25°	4689	3537	3575	3501
30°	4870	3414	3599	3376
35°	5000	3274	3635	3222
40°	5067	3133	3686	3062
45°	5076	2990	3757	2915
50°	5028	2853	3849	2778
55°	4924	2726	3935	2651
60°	4769	2594	3987	2526
65°	4556	2442	3967	2385
70°	4256	2263	3825	2221
75°	3829	2017	3511	2007
80°	3247	1689	2951	1715
85°	2257	1118	1871	1149

TEST NUMBER: P837972

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-3STD-30-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.1	3.2
10°-20°	388.3	9.4
20°-30°	595.1	14.4
30°-40°	723.6	17.5
40°-50°	752.2	18.2
50°-60°	679.4	16.4
60°-70°	516.6	12.5
70°-80°	288.0	7.0
80°-90°	66.3	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°	1117.4	27.0
0°-40°	1841.0	44.4
0°-60°	3272.6	79.0
0°-90°	4143.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4143.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1412	1412	1412	1412	1412	
5°	1466	1397	1370	1399	1466	141
15°	1549	1330	1289	1331	1549	439
25°	1579	1191	1204	1179	1579	729
35°	1522	996	1107	981	1522	951
45°	1334	786	987	766	1334	1027
55°	1050	581	839	565	1050	937
65°	716	384	623	375	716	707
75°	368	194	338	193	368	391
85°	73	36	61	37	73	92
90°	0	0	0	0	0	

TEST NUMBER: P837972

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-3STD-30-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1412.3	1412.3	1412.3	1412.3	1412.3	1412.3	1412.3	1412.3	1412.3	1412.3	1412.3
2.5°	1443.6	1422.5	1422.8	1441.3	1427.1	1434.0	1414.3	1421.8	1419.5	1421.2	1405.0
5°	1466.3	1443.6	1443.2	1459.1	1443.2	1446.2	1421.2	1426.1	1418.9	1414.3	1396.8
7.5°	1490.4	1467.6	1465.3	1479.2	1458.4	1456.1	1428.4	1428.4	1415.2	1403.7	1387.2
10°	1514.1	1490.7	1487.7	1498.3	1472.6	1465.0	1431.4	1426.1	1408.7	1391.5	1373.7
12.5°	1531.9	1508.1	1505.8	1512.4	1483.4	1469.6	1431.4	1421.2	1395.5	1371.4	1357.6
15°	1548.7	1524.3	1518.0	1521.3	1488.1	1469.6	1426.8	1411.0	1378.0	1346.4	1330.3
17.5°	1560.5	1537.1	1530.9	1530.5	1490.4	1464.0	1416.9	1395.2	1355.6	1317.4	1301.3
20°	1572.4	1549.0	1541.1	1535.2	1489.7	1456.4	1402.4	1373.1	1327.0	1284.1	1270.6
22.5°	1578.3	1554.3	1545.7	1536.8	1485.4	1442.6	1384.6	1347.4	1294.7	1243.6	1232.4
25°	1579.3	1554.6	1545.4	1532.5	1476.9	1426.1	1361.5	1316.4	1257.4	1200.8	1191.2
27.5°	1576.7	1549.7	1540.4	1524.9	1464.0	1406.0	1334.2	1281.2	1217.9	1155.3	1145.1
30°	1567.4	1540.1	1531.2	1511.1	1445.9	1381.3	1304.2	1242.0	1174.1	1107.6	1098.7
32.5°	1549.0	1522.3	1515.1	1495.0	1426.1	1352.7	1269.3	1199.8	1125.7	1062.1	1048.9
35°	1522.0	1495.3	1490.7	1469.6	1398.4	1318.4	1231.1	1153.7	1074.3	1009.4	996.5
37.5°	1486.7	1464.3	1457.4	1436.7	1365.8	1279.5	1187.3	1103.6	1021.9	952.1	944.2
40°	1442.3	1421.2	1415.9	1397.5	1327.9	1236.4	1139.8	1051.9	967.9	903.0	891.8
42.5°	1391.5	1371.8	1368.8	1349.7	1281.2	1188.6	1088.4	998.2	911.5	849.0	837.7
45°	1333.9	1314.8	1314.1	1296.0	1230.1	1135.6	1034.4	943.8	856.5	791.6	785.7
47.5°	1270.3	1253.2	1253.2	1236.4	1173.1	1077.2	978.7	887.2	801.2	743.9	733.3
50°	1201.1	1185.0	1180.0	1171.8	1110.2	1013.7	920.1	831.8	746.5	691.8	681.6
52.5°	1127.3	1113.5	1116.8	1101.6	1042.0	947.5	860.8	769.6	691.5	641.7	631.5
55°	1049.6	1029.8	1032.8	1027.2	970.8	879.3	794.3	718.2	637.5	590.7	581.1
57.5°	968.9	943.2	953.7	950.4	895.1	809.4	733.3	659.9	583.8	540.6	531.4
60°	886.2	861.5	872.3	869.4	817.3	739.6	670.4	602.2	530.4	491.2	482.0
62.5°	801.2	778.5	788.3	786.0	738.3	668.1	607.8	545.2	476.7	441.4	432.9
65°	715.5	693.8	702.7	701.0	656.9	603.5	543.6	486.2	422.7	392.0	383.5
67.5°	627.9	607.8	616.0	616.0	575.5	524.5	479.0	426.6	369.6	343.3	335.4
70°	540.9	522.2	529.4	528.7	494.5	453.0	413.8	367.0	315.9	294.2	287.6
72.5°	453.3	436.8	443.4	442.8	414.1	387.4	348.5	308.0	263.5	246.1	240.2
75°	368.3	352.8	359.1	358.4	335.0	310.0	284.0	250.4	212.2	200.0	194.0
77.5°	287.3	271.5	276.7	276.7	259.6	241.5	220.7	194.7	167.7	154.5	150.2
80°	209.5	201.9	199.3	199.6	188.1	176.2	165.7	140.7	120.9	112.0	109.0
82.5°	137.7	131.4	128.8	129.5	122.9	115.6	109.0	91.6	78.4	73.1	71.5
85°	73.1	68.5	66.2	67.9	66.5	62.6	59.3	47.4	39.2	37.2	36.2
87.5°	23.1	20.1	18.4	24.4	20.8	18.4	17.8	14.2	10.9	10.9	10.5
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: P837972

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-3STD-30-120-EDD-90

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1412.3	1412.3	1412.3	1412.3	1412.3	1412.3	1412.3	1412.3	1412.3	1412.3	1412.3
2.5°	1410.3	1410.3	1397.5	1394.5	1393.2	1394.8	1382.0	1379.7	1398.1	1391.9	1377.7
5°	1399.1	1398.4	1380.3	1377.0	1377.0	1375.1	1360.6	1357.3	1375.7	1370.4	1355.0
7.5°	1385.3	1383.3	1361.9	1359.6	1356.3	1355.0	1338.8	1336.5	1352.3	1349.0	1334.5
10°	1368.5	1366.5	1341.1	1339.5	1335.9	1333.2	1318.1	1316.4	1332.6	1327.3	1315.8
12.5°	1346.4	1342.8	1316.7	1315.1	1312.1	1311.1	1296.3	1295.7	1313.5	1308.2	1296.0
15°	1317.4	1314.4	1285.5	1286.1	1286.4	1286.4	1274.6	1273.9	1291.4	1289.1	1275.9
17.5°	1285.5	1281.5	1253.8	1255.8	1258.1	1260.7	1251.5	1253.2	1271.6	1268.6	1256.8
20°	1249.2	1245.3	1218.2	1223.8	1228.8	1234.1	1228.1	1232.7	1249.9	1248.6	1239.7
22.5°	1208.7	1204.7	1179.7	1188.3	1196.5	1206.4	1203.8	1209.0	1227.1	1226.8	1218.9
25°	1159.3	1160.3	1138.2	1148.7	1162.6	1176.4	1177.4	1186.0	1206.1	1204.1	1196.8
27.5°	1113.2	1114.5	1091.1	1108.9	1127.3	1145.1	1149.4	1161.3	1181.7	1180.0	1173.8
30°	1064.7	1066.4	1043.6	1068.0	1090.4	1112.2	1121.4	1137.5	1158.3	1158.3	1151.7
32.5°	1014.3	1017.3	993.6	1026.2	1052.2	1077.6	1093.7	1110.5	1134.2	1133.6	1128.0
35°	962.6	965.9	944.2	985.7	1011.7	1042.7	1062.8	1085.2	1106.2	1106.6	1102.3
37.5°	909.9	913.8	894.1	939.5	969.2	1005.8	1031.5	1053.9	1077.2	1078.6	1074.6
40°	857.5	861.8	844.7	888.5	926.0	966.9	996.5	1022.9	1048.6	1049.2	1046.6
42.5°	805.1	809.7	796.9	839.7	882.2	926.0	961.0	990.9	1017.3	1018.9	1016.0
45°	754.1	758.0	748.8	795.6	836.4	884.2	924.4	958.3	985.0	987.3	986.3
47.5°	703.3	707.0	698.7	741.6	788.7	839.4	885.8	923.4	951.7	954.4	953.7
50°	653.6	656.6	647.7	692.5	739.2	793.3	841.7	885.2	916.8	919.4	919.1
52.5°	604.2	607.1	599.6	646.7	689.2	746.2	798.9	846.0	877.3	881.2	881.9
55°	556.4	557.7	551.8	596.9	638.1	697.7	758.4	804.1	835.4	838.7	840.7
57.5°	508.6	509.0	504.0	547.2	586.7	647.7	711.2	759.3	789.0	792.3	795.3
60°	461.2	460.9	455.3	497.1	535.0	595.3	661.5	709.3	737.9	740.9	744.8
62.5°	414.1	413.1	408.2	446.7	482.3	541.9	608.5	654.6	681.9	683.9	689.2
65°	367.3	366.3	361.7	397.3	429.6	486.6	551.8	595.6	620.3	623.0	622.0
67.5°	321.2	319.2	315.6	347.6	376.9	429.6	492.2	534.0	554.4	556.7	563.0
70°	275.1	272.8	264.5	298.5	324.2	371.3	429.6	466.8	483.9	486.2	485.3
72.5°	229.6	227.3	218.4	249.7	271.5	312.6	364.7	395.6	410.5	412.5	412.5
75°	185.5	184.2	178.6	202.3	220.4	254.0	298.1	323.8	335.4	337.7	337.0
77.5°	143.0	142.0	136.4	156.8	171.0	196.0	231.6	251.7	260.3	262.9	268.5
80°	102.5	102.1	93.2	113.3	119.6	140.7	166.7	182.2	186.8	190.4	194.4
82.5°	65.6	65.9	57.0	74.1	76.8	90.3	106.4	116.0	119.3	122.2	125.2
85°	32.0	33.3	28.3	39.2	39.5	46.5	53.4	57.0	58.3	60.6	63.3
87.5°	8.2	9.6	5.3	11.2	9.9	12.8	14.8	15.8	15.5	17.1	18.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P837972

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-3STD-30-120-EDD-90

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1412.3	1412.3	1412.3	1412.3	1412.3	1412.3	1412.3	1412.3	1412.3	1412.3	1412.3
2.5°	1382.3	1392.8	1387.6	1404.7	1411.3	1400.8	1419.2	1419.5	1406.4	1421.8	1430.4
5°	1360.9	1371.8	1368.5	1386.3	1394.5	1385.3	1407.7	1412.0	1399.1	1416.6	1430.4
7.5°	1339.1	1352.0	1347.7	1365.8	1375.7	1368.5	1392.5	1399.4	1389.6	1408.7	1427.1
10°	1320.4	1331.2	1326.6	1345.7	1354.3	1348.4	1372.1	1384.9	1375.7	1399.1	1421.2
12.5°	1301.9	1310.8	1305.5	1321.4	1329.6	1322.0	1351.0	1362.9	1356.3	1380.7	1409.0
15°	1278.2	1288.1	1280.8	1295.0	1301.3	1294.7	1318.4	1338.8	1330.6	1357.3	1388.6
17.5°	1260.1	1265.7	1255.8	1267.0	1270.6	1261.7	1285.8	1305.9	1299.9	1328.9	1365.2
20°	1240.0	1244.6	1230.8	1237.0	1236.7	1225.5	1247.6	1267.3	1263.4	1295.3	1336.5
22.5°	1217.6	1219.9	1203.8	1205.1	1204.4	1186.0	1205.7	1225.8	1224.2	1256.5	1302.6
25°	1193.9	1194.2	1173.4	1172.8	1165.5	1143.8	1161.3	1184.0	1179.0	1214.0	1262.4
27.5°	1170.5	1167.2	1142.1	1136.2	1124.7	1098.7	1114.1	1134.6	1131.6	1165.9	1219.6
30°	1145.4	1141.2	1110.5	1099.6	1082.8	1052.9	1065.7	1084.8	1086.5	1116.5	1172.8
32.5°	1121.7	1110.9	1076.9	1061.1	1040.0	1005.1	1012.0	1031.5	1034.1	1064.4	1122.4
35°	1091.1	1083.8	1042.0	1015.0	994.2	956.0	963.3	976.8	980.7	1010.4	1069.3
37.5°	1062.1	1050.6	1006.1	973.1	946.5	906.3	908.2	922.1	926.0	956.0	1014.3
40°	1032.1	1015.6	967.9	929.3	898.7	856.5	854.2	868.7	871.7	901.0	953.7
42.5°	1000.2	980.4	926.7	884.5	849.3	806.5	801.8	814.4	817.7	846.3	898.0
45°	967.9	944.2	884.5	838.4	799.9	756.1	751.4	761.0	765.9	792.9	842.7
47.5°	933.6	905.9	841.0	789.7	749.8	706.0	700.4	709.9	713.9	740.6	787.7
50°	897.7	864.1	796.2	739.6	700.0	656.9	648.7	659.9	663.5	688.5	734.6
52.5°	858.2	820.9	748.5	689.2	649.6	608.5	598.6	609.5	613.7	638.1	680.6
55°	816.3	776.1	700.4	642.7	599.9	559.7	551.5	555.8	565.0	588.0	627.6
57.5°	769.2	729.4	649.6	591.0	549.8	511.3	504.4	508.3	516.9	539.3	574.9
60°	719.2	677.0	597.9	539.3	499.4	462.9	456.6	460.2	469.4	489.9	522.8
62.5°	669.7	622.3	544.6	486.2	450.0	416.1	414.4	413.1	421.7	441.4	470.4
65°	609.8	564.3	488.9	433.5	400.6	370.0	363.4	366.3	374.6	392.7	423.0
67.5°	545.5	504.4	431.9	380.8	351.5	324.2	318.6	319.9	328.4	344.3	370.6
70°	477.3	441.1	373.6	327.8	303.1	277.4	273.8	274.1	282.3	296.2	319.2
72.5°	405.9	373.2	314.6	275.4	255.0	236.5	233.2	229.3	236.9	248.7	268.5
75°	333.1	304.4	256.0	224.0	207.9	192.4	189.4	185.5	193.0	203.3	218.7
77.5°	259.6	236.5	199.0	174.3	161.8	150.2	147.6	143.3	150.9	158.5	170.6
80°	187.8	171.0	148.6	122.5	118.3	110.7	108.1	103.4	110.7	115.6	124.9
82.5°	121.2	110.0	97.2	79.1	78.4	72.8	71.5	66.2	72.8	75.8	82.7
85°	61.3	56.0	52.7	40.2	41.5	37.9	37.6	32.0	37.2	38.5	42.5
87.5°	17.5	18.4	16.5	9.9	12.5	11.9	11.9	8.6	11.9	11.9	13.5
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: P837972

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-3STD-30-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1412.3	1412.3	1412.3	1412.3	1412.3	1412.3	1412.3	1412.3
2.5°	1413.6	1419.2	1420.5	1420.2	1423.8	1443.6	1437.0	1443.6
5°	1416.9	1429.4	1432.7	1437.3	1443.2	1465.7	1458.4	1466.3
7.5°	1418.9	1437.6	1444.9	1453.8	1463.3	1488.4	1482.5	1490.4
10°	1418.9	1443.2	1453.8	1468.6	1481.5	1510.5	1504.9	1514.1
12.5°	1412.9	1444.2	1459.1	1479.8	1496.3	1527.6	1525.3	1531.9
15°	1400.8	1439.3	1459.7	1486.4	1506.8	1541.7	1540.8	1548.7
17.5°	1384.3	1430.7	1455.4	1489.0	1514.7	1553.9	1556.2	1560.5
20°	1363.5	1414.6	1446.9	1488.1	1520.3	1563.5	1566.5	1572.4
22.5°	1336.2	1395.2	1434.0	1483.8	1521.0	1567.4	1572.7	1578.3
25°	1303.9	1371.8	1417.2	1475.5	1517.7	1567.1	1574.4	1579.3
27.5°	1267.0	1341.5	1395.8	1462.4	1508.5	1561.8	1570.7	1576.7
30°	1224.2	1309.2	1371.4	1445.2	1496.0	1552.0	1561.5	1567.4
32.5°	1180.0	1273.6	1342.4	1423.2	1477.8	1536.1	1544.4	1549.0
35°	1131.9	1230.4	1307.5	1394.8	1454.4	1510.8	1517.0	1522.0
37.5°	1079.6	1183.7	1267.7	1362.9	1421.5	1475.5	1481.1	1486.7
40°	1025.5	1134.6	1222.9	1323.7	1382.3	1432.4	1438.3	1442.3
42.5°	971.2	1080.2	1175.1	1277.5	1335.9	1384.0	1387.6	1391.5
45°	916.2	1023.9	1121.4	1226.5	1284.1	1329.3	1330.6	1333.9
47.5°	860.2	965.6	1062.4	1168.2	1225.2	1266.3	1267.7	1270.3
50°	803.8	907.3	999.5	1105.3	1160.9	1204.4	1198.5	1201.1
52.5°	748.5	846.0	940.2	1037.4	1092.4	1130.9	1132.6	1127.3
55°	694.1	786.0	872.7	966.2	1018.6	1048.6	1047.6	1049.6
57.5°	639.1	725.4	804.8	890.5	941.5	969.9	975.8	968.9
60°	583.1	664.1	735.3	812.7	862.1	885.8	892.8	886.2
62.5°	527.4	601.9	666.4	734.0	779.8	809.1	808.4	801.2
65°	471.7	539.3	596.9	654.3	694.1	723.4	722.1	715.5
67.5°	420.4	476.0	527.8	574.2	608.8	628.9	635.8	627.9
70°	363.7	411.8	457.3	494.5	523.1	541.3	547.8	540.9
72.5°	307.0	347.9	379.8	415.7	437.8	453.0	459.9	453.3
75°	251.0	284.6	310.7	338.7	354.1	367.0	374.9	368.3
77.5°	196.7	222.7	243.5	263.9	281.7	284.6	291.5	287.3
80°	145.0	163.7	178.9	192.4	205.2	206.6	212.2	209.5
82.5°	96.5	109.0	113.0	127.2	135.4	134.1	139.7	137.7
85°	51.1	58.6	65.6	69.8	74.5	70.2	75.1	73.1
87.5°	17.1	18.1	15.8	22.4	24.7	21.1	24.0	23.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)