

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: P837805

Luminaire Tested: **ORLG-12-4-INS-ASY2R-LD4-1HI-40-120-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: P837805
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/21/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-12-4-INS-ASY2R-LD4-1HI-40-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

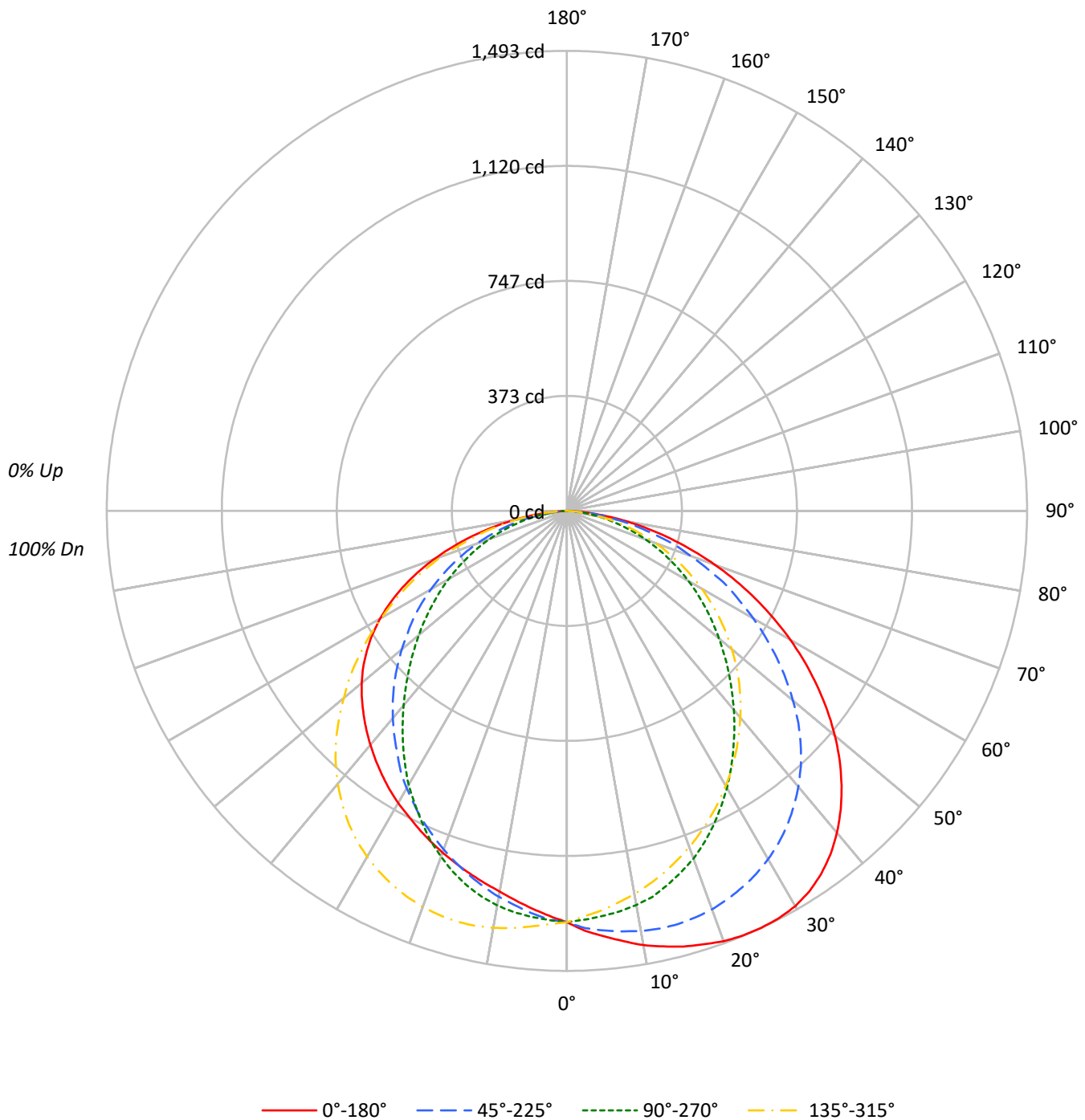
Lumens per Lamp: N/A
Luminaire Lumens: 3916.0 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 44
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	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°	3592	3592	3592	3592
5°	3743	3566	3499	3572
10°	3910	3548	3428	3553
15°	4078	3502	3394	3503
20°	4256	3439	3379	3419
25°	4432	3343	3379	3309
30°	4603	3227	3402	3191
35°	4725	3094	3436	3045
40°	4788	2961	3484	2894
45°	4798	2826	3551	2755
50°	4752	2697	3638	2625
55°	4654	2577	3719	2505
60°	4507	2451	3768	2388
65°	4306	2308	3749	2254
70°	4022	2138	3616	2099
75°	3619	1907	3318	1897
80°	3068	1598	2789	1621
85°	2133	1056	1769	1087

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.7	3.2
10°-20°	367.0	9.4
20°-30°	562.4	14.4
30°-40°	683.8	17.5
40°-50°	710.9	18.2
50°-60°	642.1	16.4
60°-70°	488.2	12.5
70°-80°	272.2	7.0
80°-90°	62.7	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°	1056.1	27.0
0°-40°	1739.9	44.4
0°-60°	3093.0	79.0
0°-90°	3916.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3916.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1335	1335	1335	1335	1335	
5°	1386	1320	1295	1322	1386	134
15°	1464	1257	1218	1258	1464	415
25°	1493	1126	1138	1114	1493	689
35°	1438	942	1046	927	1438	898
45°	1261	743	933	724	1261	971
55°	992	549	793	534	992	886
65°	676	362	589	354	676	668
75°	348	183	319	182	348	370
85°	69	34	57	35	69	87
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°	1334.8	1334.8	1334.8	1334.8	1334.8	1334.8	1334.8	1334.8	1334.8	1334.8	1334.8
2.5°	1364.3	1344.4	1344.7	1362.2	1348.8	1355.3	1336.6	1343.8	1341.6	1343.2	1327.9
5°	1385.8	1364.3	1364.0	1379.0	1364.0	1366.8	1343.2	1347.8	1341.0	1336.6	1320.1
7.5°	1408.6	1387.1	1384.9	1398.0	1378.3	1376.2	1350.0	1350.0	1337.6	1326.7	1311.1
10°	1431.0	1408.9	1406.1	1416.0	1391.7	1384.6	1352.8	1347.8	1331.3	1315.1	1298.3
12.5°	1447.8	1425.4	1423.2	1429.4	1402.0	1388.9	1352.8	1343.2	1318.9	1296.2	1283.1
15°	1463.7	1440.6	1434.7	1437.8	1406.4	1388.9	1348.5	1333.5	1302.4	1272.5	1257.2
17.5°	1474.9	1452.8	1446.8	1446.5	1408.6	1383.6	1339.1	1318.6	1281.2	1245.1	1229.8
20°	1486.1	1464.0	1456.5	1450.9	1407.9	1376.5	1325.4	1297.7	1254.1	1213.6	1200.9
22.5°	1491.7	1469.0	1460.9	1452.5	1403.9	1363.4	1308.6	1273.4	1223.6	1175.3	1164.8
25°	1492.6	1469.3	1460.5	1448.4	1395.8	1347.8	1286.8	1244.2	1188.4	1134.9	1125.8
27.5°	1490.1	1464.6	1455.9	1441.2	1383.6	1328.8	1261.0	1210.8	1151.1	1091.9	1082.3
30°	1481.4	1455.6	1447.2	1428.2	1366.5	1305.5	1232.6	1173.8	1109.7	1046.8	1038.4
32.5°	1464.0	1438.8	1431.9	1412.9	1347.8	1278.4	1199.6	1133.9	1063.9	1003.8	991.3
35°	1438.4	1413.2	1408.9	1388.9	1321.7	1246.0	1163.5	1090.3	1015.3	954.0	941.8
37.5°	1405.1	1384.0	1377.4	1357.8	1290.9	1209.3	1122.1	1043.0	965.8	899.8	892.3
40°	1363.1	1343.2	1338.2	1320.7	1255.1	1168.5	1077.3	994.1	914.7	853.4	842.8
42.5°	1315.1	1296.5	1293.7	1275.6	1210.8	1123.4	1028.7	943.4	861.5	802.4	791.8
45°	1260.7	1242.6	1242.0	1224.9	1162.6	1073.2	977.6	892.0	809.5	748.2	742.6
47.5°	1200.6	1184.4	1184.4	1168.5	1108.7	1018.1	925.0	838.5	757.2	703.0	693.1
50°	1135.2	1119.9	1115.3	1107.5	1049.3	958.0	869.6	786.2	705.5	653.8	644.2
52.5°	1065.4	1052.4	1055.5	1041.2	984.8	895.4	813.6	727.3	653.5	606.5	596.9
55°	992.0	973.3	976.1	970.8	917.6	831.0	750.7	678.7	602.5	558.3	549.2
57.5°	915.7	891.4	901.4	898.2	845.9	765.0	693.1	623.6	551.7	510.9	502.2
60°	837.5	814.2	824.5	821.7	772.5	699.0	633.6	569.1	501.3	464.2	455.5
62.5°	757.2	735.7	745.1	742.9	697.7	631.4	574.4	515.3	450.5	417.2	409.1
65°	676.3	655.7	664.1	662.6	620.8	570.4	513.7	459.6	399.5	370.5	362.4
67.5°	593.4	574.4	582.2	582.2	543.9	495.7	452.7	403.2	349.3	324.4	317.0
70°	511.2	493.5	500.3	499.7	467.3	428.1	391.1	346.8	298.6	278.0	271.8
72.5°	428.4	412.9	419.1	418.5	391.4	366.1	329.4	291.1	249.1	232.6	227.0
75°	348.1	333.5	339.4	338.7	316.6	293.0	268.4	236.6	200.5	189.0	183.4
77.5°	271.5	256.6	261.5	261.5	245.3	228.2	208.6	184.0	158.5	146.0	142.0
80°	198.0	190.9	188.4	188.7	177.8	166.6	156.6	132.9	114.3	105.9	103.1
82.5°	130.1	124.2	121.7	122.4	116.1	109.3	103.1	86.6	74.1	69.1	67.6
85°	69.1	64.8	62.6	64.1	62.9	59.2	56.0	44.8	37.1	35.2	34.2
87.5°	21.8	19.0	17.4	23.0	19.6	17.4	16.8	13.4	10.3	10.3	10.0
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°	1334.8	1334.8	1334.8	1334.8	1334.8	1334.8	1334.8	1334.8	1334.8	1334.8	1334.8
2.5°	1332.9	1332.9	1320.7	1317.9	1316.7	1318.3	1306.1	1303.9	1321.4	1315.5	1302.1
5°	1322.3	1321.7	1304.6	1301.4	1301.4	1299.6	1285.9	1282.8	1300.2	1295.2	1280.6
7.5°	1309.2	1307.4	1287.1	1284.9	1281.8	1280.6	1265.3	1263.1	1278.1	1275.0	1261.3
10°	1293.4	1291.5	1267.5	1266.0	1262.5	1260.0	1245.7	1244.2	1259.4	1254.4	1243.5
12.5°	1272.5	1269.1	1244.5	1242.9	1240.1	1239.2	1225.2	1224.5	1241.4	1236.4	1224.9
15°	1245.1	1242.3	1214.9	1215.5	1215.8	1215.8	1204.6	1204.0	1220.5	1218.3	1205.9
17.5°	1214.9	1211.2	1185.0	1186.9	1189.0	1191.5	1182.8	1184.4	1201.8	1199.0	1187.8
20°	1180.6	1176.9	1151.4	1156.7	1161.3	1166.3	1160.7	1165.1	1181.3	1180.0	1171.6
22.5°	1142.3	1138.6	1114.9	1123.0	1130.8	1140.2	1137.7	1142.7	1159.8	1159.5	1152.0
25°	1095.6	1096.6	1075.7	1085.7	1098.8	1111.8	1112.8	1120.9	1139.9	1138.0	1131.1
27.5°	1052.1	1053.3	1031.2	1048.0	1065.4	1082.3	1086.3	1097.5	1116.8	1115.3	1109.3
30°	1006.3	1007.8	986.4	1009.4	1030.6	1051.1	1059.8	1075.1	1094.7	1094.7	1088.5
32.5°	958.6	961.5	939.0	969.9	994.5	1018.4	1033.7	1049.6	1072.0	1071.4	1066.1
35°	909.8	912.9	892.3	931.6	956.2	985.4	1004.4	1025.6	1045.5	1045.8	1041.8
37.5°	860.0	863.7	845.0	888.0	916.0	950.6	974.8	996.0	1018.1	1019.4	1015.6
40°	810.4	814.5	798.3	839.7	875.2	913.8	941.8	966.7	991.0	991.7	989.2
42.5°	760.9	765.3	753.2	793.6	833.8	875.2	908.2	936.5	961.5	963.0	960.2
45°	712.7	716.4	707.7	751.9	790.5	835.7	873.6	905.7	930.9	933.1	932.2
47.5°	664.7	668.2	660.4	700.9	745.4	793.3	837.2	872.7	899.5	902.0	901.4
50°	617.7	620.5	612.1	654.5	698.7	749.7	795.5	836.6	866.5	869.0	868.7
52.5°	571.0	573.8	566.7	611.2	651.3	705.2	755.0	799.5	829.1	832.9	833.5
55°	525.9	527.1	521.5	564.2	603.1	659.4	716.7	760.0	789.6	792.7	794.6
57.5°	480.7	481.0	476.4	517.2	554.5	612.1	672.2	717.7	745.7	748.8	751.6
60°	435.9	435.6	430.3	469.8	505.6	562.6	625.2	670.3	697.4	700.2	704.0
62.5°	391.4	390.4	385.8	422.2	455.8	512.2	575.1	618.7	644.5	646.4	651.3
65°	347.2	346.2	341.9	375.5	406.0	459.9	521.5	562.9	586.3	588.8	587.8
67.5°	303.6	301.7	298.3	328.5	356.2	406.0	465.2	504.7	524.0	526.2	532.1
70°	260.0	257.8	250.0	282.1	306.4	350.9	406.0	441.2	457.4	459.6	458.6
72.5°	217.0	214.8	206.4	236.0	256.6	295.5	344.7	373.9	387.9	389.8	389.8
75°	175.3	174.0	168.8	191.2	208.3	240.1	281.8	306.1	317.0	319.1	318.5
77.5°	135.1	134.2	128.9	148.2	161.6	185.3	218.9	237.9	246.0	248.5	253.8
80°	96.8	96.5	88.1	107.1	113.0	132.9	157.5	172.2	176.5	180.0	183.7
82.5°	62.0	62.3	53.9	70.1	72.5	85.3	100.6	109.6	112.7	115.5	118.3
85°	30.2	31.4	26.8	37.1	37.4	43.9	50.4	53.9	55.1	57.3	59.8
87.5°	7.8	9.0	5.0	10.6	9.3	12.1	14.0	14.9	14.6	16.2	17.1
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°	1334.8	1334.8	1334.8	1334.8	1334.8	1334.8	1334.8	1334.8	1334.8	1334.8	1334.8
2.5°	1306.4	1316.4	1311.4	1327.6	1333.8	1323.9	1341.3	1341.6	1329.2	1343.8	1351.9
5°	1286.2	1296.5	1293.4	1310.2	1317.9	1309.2	1330.4	1334.4	1322.3	1338.8	1351.9
7.5°	1265.6	1277.8	1273.7	1290.9	1300.2	1293.4	1316.1	1322.6	1313.3	1331.3	1348.8
10°	1247.9	1258.2	1253.8	1271.9	1280.0	1274.4	1296.8	1308.9	1300.2	1322.3	1343.2
12.5°	1230.5	1238.9	1233.9	1248.8	1256.6	1249.4	1276.8	1288.1	1281.8	1304.9	1331.6
15°	1208.0	1217.4	1210.5	1223.9	1229.8	1223.6	1246.0	1265.3	1257.5	1282.8	1312.3
17.5°	1190.9	1196.2	1186.9	1197.5	1200.9	1192.5	1215.2	1234.2	1228.6	1256.0	1290.2
20°	1171.9	1176.3	1163.2	1169.1	1168.8	1158.2	1179.1	1197.8	1194.0	1224.2	1263.1
22.5°	1150.8	1152.9	1137.7	1138.9	1138.3	1120.9	1139.5	1158.5	1157.0	1187.5	1231.1
25°	1128.3	1128.6	1109.0	1108.4	1101.6	1081.0	1097.5	1119.0	1114.3	1147.3	1193.1
27.5°	1106.2	1103.1	1079.5	1073.8	1063.0	1038.4	1053.0	1072.3	1069.5	1101.9	1152.6
30°	1082.6	1078.5	1049.6	1039.3	1023.4	995.1	1007.2	1025.3	1026.8	1055.2	1108.4
32.5°	1060.1	1049.9	1017.8	1002.9	982.9	949.9	956.5	974.8	977.3	1006.0	1060.8
35°	1031.2	1024.3	984.8	959.3	939.7	903.5	910.4	923.2	926.9	954.9	1010.6
37.5°	1003.8	992.9	950.9	919.7	894.5	856.5	858.4	871.5	875.2	903.5	958.6
40°	975.5	959.9	914.7	878.3	849.4	809.5	807.3	821.0	823.8	851.5	901.4
42.5°	945.3	926.6	875.8	836.0	802.7	762.2	757.8	769.7	772.8	799.9	848.7
45°	914.7	892.3	836.0	792.4	756.0	714.5	710.2	719.2	723.9	749.4	796.4
47.5°	882.4	856.2	794.9	746.3	708.6	667.2	661.9	671.0	674.7	699.9	744.4
50°	848.4	816.7	752.5	699.0	661.6	620.8	613.0	623.6	627.1	650.7	694.3
52.5°	811.1	775.9	707.4	651.3	614.0	575.1	565.7	576.0	580.0	603.1	643.3
55°	771.5	733.5	661.9	607.4	567.0	529.0	521.2	525.2	534.0	555.8	593.1
57.5°	727.0	689.3	614.0	558.6	519.6	483.2	476.7	480.4	488.5	509.7	543.3
60°	679.7	639.8	565.1	509.7	472.0	437.4	431.5	435.0	443.7	463.0	494.1
62.5°	633.0	588.1	514.7	459.6	425.3	393.2	391.7	390.4	398.5	417.2	444.6
65°	576.3	533.3	462.0	409.7	378.6	349.6	343.4	346.2	354.0	371.1	399.8
67.5°	515.6	476.7	408.2	359.9	332.2	306.4	301.1	302.3	310.4	325.4	350.3
70°	451.1	416.9	353.1	309.8	286.4	262.2	258.7	259.0	266.8	279.9	301.7
72.5°	383.6	352.8	297.3	260.3	241.0	223.5	220.4	216.7	223.9	235.1	253.8
75°	314.8	287.7	241.9	211.7	196.5	181.8	179.0	175.3	182.5	192.1	206.7
77.5°	245.3	223.5	188.1	164.7	152.9	142.0	139.5	135.4	142.6	149.8	161.3
80°	177.5	161.6	140.4	115.8	111.8	104.6	102.1	97.8	104.6	109.3	118.0
82.5°	114.6	104.0	91.8	74.7	74.1	68.8	67.6	62.6	68.8	71.6	78.1
85°	57.9	52.9	49.8	38.0	39.2	35.8	35.5	30.2	35.2	36.4	40.2
87.5°	16.5	17.4	15.6	9.3	11.8	11.2	11.2	8.1	11.2	11.2	12.8
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: P837805

CATALOG NUMBER: ORLG-12-4-INS-ASY2R-LD4-1HI-40-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1334.8	1334.8	1334.8	1334.8	1334.8	1334.8	1334.8	1334.8
2.5°	1336.0	1341.3	1342.5	1342.2	1345.7	1364.3	1358.1	1364.3
5°	1339.1	1351.0	1354.1	1358.4	1364.0	1385.2	1378.3	1385.8
7.5°	1341.0	1358.7	1365.6	1374.0	1383.0	1406.7	1401.1	1408.6
10°	1341.0	1364.0	1374.0	1388.0	1400.1	1427.5	1422.2	1431.0
12.5°	1335.4	1365.0	1379.0	1398.6	1414.2	1443.7	1441.6	1447.8
15°	1323.9	1360.3	1379.6	1404.8	1424.1	1457.1	1456.2	1463.7
17.5°	1308.3	1352.2	1375.5	1407.3	1431.6	1468.6	1470.8	1474.9
20°	1288.7	1336.9	1367.5	1406.4	1436.9	1477.7	1480.5	1486.1
22.5°	1262.8	1318.6	1355.3	1402.3	1437.5	1481.4	1486.4	1491.7
25°	1232.3	1296.5	1339.4	1394.5	1434.4	1481.1	1487.9	1492.6
27.5°	1197.5	1267.8	1319.2	1382.1	1425.7	1476.1	1484.5	1490.1
30°	1157.0	1237.3	1296.2	1365.9	1413.8	1466.8	1475.8	1481.4
32.5°	1115.3	1203.7	1268.8	1345.0	1396.7	1451.8	1459.6	1464.0
35°	1069.8	1162.9	1235.8	1318.3	1374.6	1427.9	1433.8	1438.4
37.5°	1020.3	1118.7	1198.1	1288.1	1343.5	1394.5	1399.8	1405.1
40°	969.2	1072.3	1155.7	1251.0	1306.4	1353.8	1359.4	1363.1
42.5°	917.9	1020.9	1110.6	1207.4	1262.5	1308.0	1311.4	1315.1
45°	865.9	967.7	1059.8	1159.2	1213.6	1256.3	1257.5	1260.7
47.5°	812.9	912.6	1004.1	1104.0	1157.9	1196.8	1198.1	1200.6
50°	759.7	857.5	944.6	1044.6	1097.2	1138.3	1132.7	1135.2
52.5°	707.4	799.5	888.6	980.4	1032.4	1068.9	1070.4	1065.4
55°	656.0	742.9	824.8	913.2	962.7	991.0	990.1	992.0
57.5°	604.0	685.6	760.6	841.6	889.8	916.6	922.2	915.7
60°	551.1	627.7	694.9	768.1	814.8	837.2	843.8	837.5
62.5°	498.5	568.8	629.9	693.7	737.0	764.7	764.1	757.2
65°	445.9	509.7	564.2	618.3	656.0	683.7	682.5	676.3
67.5°	397.3	449.9	498.8	542.7	575.4	594.4	600.9	593.4
70°	343.7	389.2	432.2	467.3	494.4	511.5	517.8	511.2
72.5°	290.2	328.8	359.0	392.9	413.8	428.1	434.6	428.4
75°	237.2	269.0	293.6	320.1	334.7	346.8	354.3	348.1
77.5°	185.9	210.5	230.1	249.4	266.2	269.0	275.5	271.5
80°	137.0	154.7	169.1	181.8	194.0	195.2	200.5	198.0
82.5°	91.2	103.1	106.8	120.2	128.0	126.7	132.0	130.1
85°	48.3	55.4	62.0	66.0	70.4	66.3	71.0	69.1
87.5°	16.2	17.1	14.9	21.2	23.4	19.9	22.7	21.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)