

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: P837759

Luminaire Tested: **ORLG-12-4-INS-ASY2R-LD4-1STD-50-120-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: P837759
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-LD4-1STD-50-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

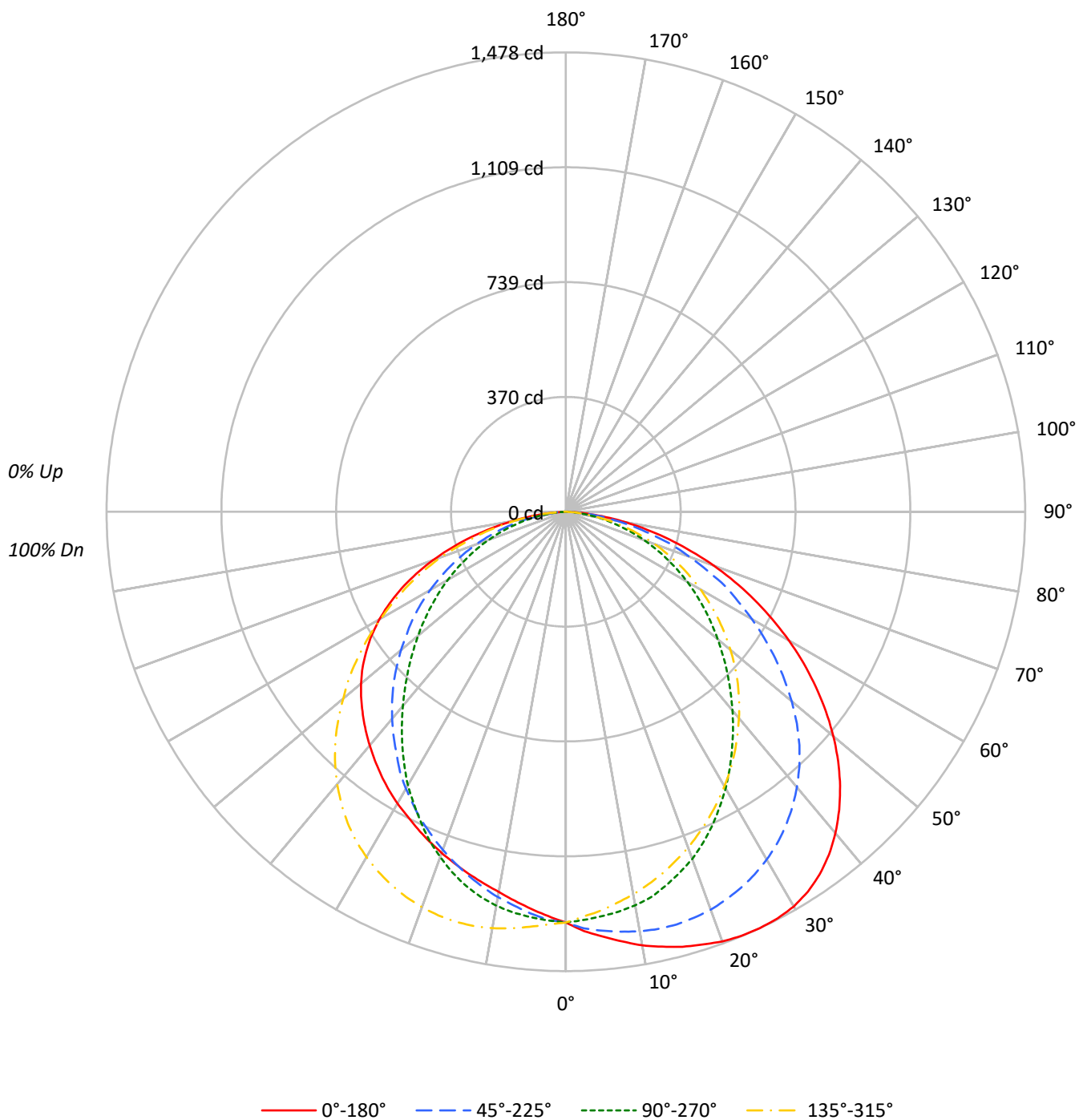
Lumens per Lamp: N/A
Luminaire Lumens: 3876.9 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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
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°	3556	3556	3556	3556
5°	3706	3530	3464	3536
10°	3871	3512	3393	3517
15°	4037	3468	3360	3468
20°	4213	3405	3345	3385
25°	4388	3309	3345	3276
30°	4557	3194	3368	3159
35°	4678	3063	3401	3014
40°	4741	2931	3449	2865
45°	4750	2798	3516	2727
50°	4705	2670	3602	2599
55°	4607	2551	3682	2480
60°	4463	2427	3731	2364
65°	4263	2285	3712	2232
70°	3982	2117	3580	2079
75°	3583	1888	3284	1878
80°	3037	1581	2762	1605
85°	2112	1047	1751	1074

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.5	3.2
10°-20°	363.3	9.4
20°-30°	556.8	14.4
30°-40°	677.0	17.5
40°-50°	703.8	18.2
50°-60°	635.7	16.4
60°-70°	483.3	12.5
70°-80°	269.4	7.0
80°-90°	62.0	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°	1045.5	27.0
0°-40°	1722.5	44.4
0°-60°	3062.0	79.0
0°-90°	3876.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3876.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1321	1321	1321	1321	1321	
5°	1372	1307	1282	1309	1372	132
15°	1449	1245	1206	1245	1449	411
25°	1478	1115	1127	1103	1478	683
35°	1424	932	1035	918	1424	889
45°	1248	735	924	717	1248	961
55°	982	544	785	529	982	877
65°	670	359	583	350	670	662
75°	345	182	316	181	345	366
85°	68	34	57	35	68	86
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°	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4
2.5°	1350.7	1331.0	1331.3	1348.5	1335.3	1341.8	1323.3	1330.4	1328.2	1329.7	1314.6
5°	1372.0	1350.7	1350.4	1365.2	1350.4	1353.2	1329.7	1334.4	1327.6	1323.3	1306.9
7.5°	1394.5	1373.2	1371.0	1384.0	1364.6	1362.4	1336.5	1336.5	1324.2	1313.4	1298.0
10°	1416.7	1394.8	1392.0	1401.9	1377.8	1370.7	1339.3	1334.4	1318.0	1302.0	1285.4
12.5°	1433.3	1411.1	1409.0	1415.1	1388.0	1375.0	1339.3	1329.7	1305.7	1283.2	1270.2
15°	1449.0	1426.2	1420.4	1423.4	1392.3	1375.0	1335.0	1320.2	1289.4	1259.8	1244.7
17.5°	1460.1	1438.2	1432.4	1432.1	1394.5	1369.8	1325.7	1305.4	1268.4	1232.6	1217.5
20°	1471.2	1449.3	1441.9	1436.4	1393.9	1362.7	1312.2	1284.7	1241.6	1201.5	1188.9
22.5°	1476.8	1454.3	1446.3	1437.9	1389.8	1349.8	1295.5	1260.7	1211.4	1163.6	1153.1
25°	1477.7	1454.6	1445.9	1433.9	1381.8	1334.4	1273.9	1231.7	1176.5	1123.5	1114.6
27.5°	1475.2	1449.9	1441.3	1426.8	1369.8	1315.6	1248.4	1198.7	1139.6	1081.0	1071.4
30°	1466.6	1441.0	1432.7	1413.9	1352.9	1292.4	1220.3	1162.1	1098.6	1036.3	1028.0
32.5°	1449.3	1424.4	1417.6	1398.8	1334.4	1265.6	1187.6	1122.6	1053.2	993.8	981.4
35°	1424.1	1399.1	1394.8	1375.0	1308.5	1233.6	1151.9	1079.4	1005.2	944.4	932.4
37.5°	1391.1	1370.1	1363.6	1344.2	1278.0	1197.2	1110.9	1032.6	956.2	890.8	883.4
40°	1349.5	1329.7	1324.8	1307.5	1242.5	1156.8	1066.5	984.2	905.6	844.9	834.4
42.5°	1302.0	1283.5	1280.7	1262.8	1198.7	1112.1	1018.4	934.0	852.9	794.3	783.8
45°	1248.1	1230.2	1229.6	1212.6	1151.0	1062.5	967.9	883.1	801.4	740.7	735.1
47.5°	1188.6	1172.5	1172.5	1156.8	1097.6	1007.9	915.8	830.1	749.6	696.0	686.1
50°	1123.8	1108.7	1104.1	1096.4	1038.8	948.4	860.9	778.3	698.5	647.3	637.7
52.5°	1054.8	1041.8	1044.9	1030.7	975.0	886.5	805.4	720.0	647.0	600.4	590.9
55°	982.0	963.6	966.3	961.1	908.4	822.7	743.2	672.0	596.4	552.7	543.7
57.5°	906.5	882.5	892.3	889.3	837.5	757.3	686.1	617.4	546.2	505.8	497.2
60°	829.2	806.0	816.2	813.4	764.7	692.0	627.3	563.5	496.3	459.6	451.0
62.5°	749.6	728.4	737.6	735.5	690.8	625.1	568.7	510.1	446.0	413.0	405.0
65°	669.5	649.1	657.5	655.9	614.6	564.7	508.6	455.0	395.5	366.8	358.8
67.5°	587.5	568.7	576.4	576.4	538.5	490.7	448.2	399.2	345.8	321.2	313.8
70°	506.1	488.6	495.3	494.7	462.7	423.8	387.1	343.4	295.6	275.3	269.1
72.5°	424.1	408.7	414.9	414.3	387.5	362.5	326.1	288.2	246.6	230.3	224.7
75°	344.6	330.1	336.0	335.4	313.5	290.1	265.7	234.3	198.5	187.1	181.6
77.5°	268.8	254.0	258.9	258.9	242.9	225.9	206.5	182.2	156.9	144.6	140.6
80°	196.0	188.9	186.5	186.8	176.0	164.9	155.0	131.6	113.1	104.8	102.0
82.5°	128.8	123.0	120.5	121.1	115.0	108.2	102.0	85.7	73.4	68.4	66.9
85°	68.4	64.1	62.0	63.5	62.3	58.6	55.5	44.4	36.7	34.8	33.9
87.5°	21.6	18.8	17.3	22.8	19.4	17.3	16.6	13.3	10.2	10.2	9.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4
2.5°	1319.6	1319.6	1307.5	1304.8	1303.5	1305.1	1293.1	1290.9	1308.2	1302.3	1289.0
5°	1309.1	1308.5	1291.5	1288.4	1288.4	1286.6	1273.0	1269.9	1287.2	1282.3	1267.8
7.5°	1296.1	1294.3	1274.3	1272.1	1269.0	1267.8	1252.7	1250.5	1265.3	1262.2	1248.7
10°	1280.4	1278.6	1254.8	1253.3	1249.9	1247.4	1233.3	1231.7	1246.8	1241.9	1231.1
12.5°	1259.8	1256.4	1232.0	1230.5	1227.7	1226.8	1212.9	1212.3	1228.9	1224.0	1212.6
15°	1232.6	1229.9	1202.7	1203.4	1203.7	1203.7	1192.6	1192.0	1208.3	1206.1	1193.8
17.5°	1202.7	1199.0	1173.2	1175.0	1177.2	1179.6	1171.0	1172.5	1189.8	1187.0	1175.9
20°	1168.8	1165.1	1139.9	1145.1	1149.7	1154.7	1149.1	1153.4	1169.5	1168.2	1159.9
22.5°	1130.9	1127.2	1103.8	1111.8	1119.5	1128.8	1126.3	1131.2	1148.2	1147.9	1140.5
25°	1084.7	1085.6	1065.0	1074.8	1087.8	1100.7	1101.6	1109.7	1128.5	1126.6	1119.8
27.5°	1041.5	1042.8	1020.9	1037.5	1054.8	1071.4	1075.4	1086.5	1105.6	1104.1	1098.3
30°	996.2	997.8	976.5	999.3	1020.3	1040.6	1049.2	1064.3	1083.8	1083.8	1077.6
32.5°	949.1	951.8	929.6	960.2	984.5	1008.2	1023.3	1039.1	1061.3	1060.6	1055.4
35°	900.7	903.8	883.4	922.2	946.6	975.6	994.4	1015.3	1035.1	1035.4	1031.4
37.5°	851.4	855.1	836.6	879.1	906.8	941.0	965.1	986.1	1007.9	1009.2	1005.5
40°	802.3	806.3	790.3	831.3	866.5	904.7	932.4	957.1	981.1	981.7	979.3
42.5°	753.3	757.6	745.6	785.7	825.5	866.5	899.1	927.2	951.8	953.4	950.6
45°	705.6	709.3	700.6	744.4	782.6	827.3	864.9	896.7	921.6	923.8	922.9
47.5°	658.1	661.5	653.8	693.8	737.9	785.4	828.9	864.0	890.5	893.0	892.3
50°	611.5	614.3	606.0	647.9	691.7	742.2	787.5	828.2	857.8	860.3	860.0
52.5°	565.3	568.1	561.0	605.1	644.8	698.2	747.5	791.6	820.8	824.5	825.2
55°	520.6	521.8	516.3	558.5	597.1	652.8	709.6	752.4	781.7	784.8	786.6
57.5°	475.9	476.2	471.6	512.0	549.0	606.0	665.5	710.5	738.2	741.3	744.1
60°	431.5	431.2	426.0	465.1	500.6	557.0	618.9	663.6	690.5	693.2	696.9
62.5°	387.5	386.5	381.9	418.0	451.3	507.1	569.3	612.5	638.1	639.9	644.8
65°	343.7	342.8	338.4	371.7	401.9	455.3	516.3	557.3	580.4	582.9	582.0
67.5°	300.5	298.7	295.3	325.2	352.6	401.9	460.5	499.7	518.8	520.9	526.8
70°	257.4	255.2	247.5	279.3	303.3	347.4	401.9	436.8	452.8	455.0	454.0
72.5°	214.8	212.7	204.4	233.6	254.0	292.5	341.2	370.2	384.1	385.9	385.9
75°	173.5	172.3	167.1	189.3	206.2	237.7	279.0	303.0	313.8	315.9	315.3
77.5°	133.8	132.9	127.6	146.7	160.0	183.4	216.7	235.5	243.5	246.0	251.2
80°	95.9	95.6	87.2	106.0	111.9	131.6	156.0	170.5	174.8	178.2	181.9
82.5°	61.3	61.6	53.3	69.4	71.8	84.5	99.6	108.5	111.6	114.4	117.1
85°	29.9	31.1	26.5	36.7	37.0	43.5	49.9	53.3	54.6	56.7	59.2
87.5°	7.7	8.9	4.9	10.5	9.2	12.0	13.9	14.8	14.5	16.0	17.0
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4
2.5°	1293.4	1303.2	1298.3	1314.3	1320.5	1310.6	1327.9	1328.2	1315.9	1330.4	1338.4
5°	1273.3	1283.5	1280.4	1297.1	1304.8	1296.1	1317.1	1321.1	1309.1	1325.4	1338.4
7.5°	1253.0	1265.0	1261.0	1278.0	1287.2	1280.4	1302.9	1309.4	1300.1	1318.0	1335.3
10°	1235.4	1245.6	1241.3	1259.2	1267.2	1261.6	1283.8	1295.8	1287.2	1309.1	1329.7
12.5°	1218.2	1226.5	1221.5	1236.3	1244.0	1237.0	1264.1	1275.2	1269.0	1291.8	1318.3
15°	1196.0	1205.2	1198.4	1211.7	1217.5	1211.4	1233.6	1252.7	1245.0	1269.9	1299.2
17.5°	1179.0	1184.2	1175.0	1185.5	1188.9	1180.6	1203.1	1221.9	1216.3	1243.4	1277.3
20°	1160.2	1164.5	1151.6	1157.4	1157.1	1146.6	1167.3	1185.8	1182.1	1212.0	1250.5
22.5°	1139.2	1141.4	1126.3	1127.5	1126.9	1109.7	1128.1	1147.0	1145.4	1175.6	1218.8
25°	1117.1	1117.4	1097.9	1097.3	1090.5	1070.2	1086.5	1107.8	1103.2	1135.9	1181.2
27.5°	1095.2	1092.1	1068.7	1063.1	1052.3	1028.0	1042.5	1061.6	1058.8	1090.9	1141.1
30°	1071.7	1067.7	1039.1	1028.9	1013.2	985.1	997.1	1015.0	1016.6	1044.6	1097.3
32.5°	1049.5	1039.4	1007.6	992.8	973.1	940.4	946.9	965.1	967.6	995.9	1050.2
35°	1020.9	1014.1	975.0	949.7	930.3	894.5	901.3	913.9	917.6	945.4	1000.5
37.5°	993.8	983.0	941.4	910.5	885.6	848.0	849.8	862.8	866.5	894.5	949.1
40°	965.7	950.3	905.6	869.5	840.9	801.4	799.3	812.8	815.6	843.0	892.3
42.5°	935.8	917.3	867.1	827.6	794.6	754.6	750.3	762.0	765.0	791.9	840.3
45°	905.6	883.4	827.6	784.5	748.4	707.4	703.1	712.0	716.7	741.9	788.5
47.5°	873.5	847.7	786.9	738.8	701.5	660.6	655.3	664.3	668.0	692.9	737.0
50°	839.9	808.5	745.0	692.0	655.0	614.6	606.9	617.4	620.8	644.2	687.4
52.5°	803.0	768.1	700.3	644.8	607.8	569.3	560.1	570.2	574.2	597.1	636.8
55°	763.8	726.2	655.3	601.4	561.3	523.7	516.0	520.0	528.6	550.2	587.2
57.5°	719.7	682.4	607.8	553.0	514.4	478.4	471.9	475.6	483.6	504.6	537.9
60°	672.9	633.4	559.5	504.6	467.3	433.1	427.2	430.6	439.2	458.3	489.2
62.5°	626.6	582.3	509.5	455.0	421.1	389.3	387.8	386.5	394.5	413.0	440.2
65°	570.5	528.0	457.4	405.6	374.8	346.2	340.0	342.8	350.5	367.4	395.8
67.5°	510.4	471.9	404.1	356.3	328.9	303.3	298.1	299.3	307.3	322.1	346.8
70°	446.6	412.7	349.5	306.7	283.6	259.5	256.1	256.5	264.2	277.1	298.7
72.5°	379.7	349.2	294.4	257.7	238.6	221.3	218.2	214.5	221.6	232.7	251.2
75°	311.6	284.8	239.5	209.6	194.5	180.0	177.2	173.5	180.6	190.2	204.7
77.5°	242.9	221.3	186.2	163.1	151.3	140.6	138.1	134.1	141.2	148.3	159.7
80°	175.7	160.0	139.0	114.7	110.7	103.6	101.1	96.8	103.6	108.2	116.8
82.5°	113.4	103.0	90.9	74.0	73.4	68.1	66.9	62.0	68.1	70.9	77.4
85°	57.3	52.4	49.3	37.6	38.8	35.4	35.1	29.9	34.8	36.1	39.8
87.5°	16.3	17.3	15.4	9.2	11.7	11.1	11.1	8.0	11.1	11.1	12.6
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: P837759

CATALOG NUMBER: ORLG-12-4-INS-ASY2R-LD4-1STD-50-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4
2.5°	1322.6	1327.9	1329.1	1328.8	1332.2	1350.7	1344.5	1350.7
5°	1325.7	1337.4	1340.5	1344.8	1350.4	1371.3	1364.6	1372.0
7.5°	1327.6	1345.1	1351.9	1360.3	1369.2	1392.6	1387.1	1394.5
10°	1327.6	1350.4	1360.3	1374.1	1386.1	1413.3	1408.0	1416.7
12.5°	1322.0	1351.3	1365.2	1384.6	1400.0	1429.3	1427.1	1433.3
15°	1310.6	1346.7	1365.8	1390.8	1409.9	1442.6	1441.6	1449.0
17.5°	1295.2	1338.7	1361.8	1393.2	1417.3	1454.0	1456.1	1460.1
20°	1275.8	1323.6	1353.8	1392.3	1422.5	1462.9	1465.7	1471.2
22.5°	1250.2	1305.4	1341.8	1388.3	1423.1	1466.6	1471.5	1476.8
25°	1220.0	1283.5	1326.0	1380.6	1420.1	1466.3	1473.1	1477.7
27.5°	1185.5	1255.1	1306.0	1368.3	1411.4	1461.4	1469.7	1475.2
30°	1145.4	1224.9	1283.2	1352.2	1399.7	1452.1	1461.0	1466.6
32.5°	1104.1	1191.6	1256.1	1331.6	1382.8	1437.3	1445.0	1449.3
35°	1059.1	1151.3	1223.4	1305.1	1360.9	1413.6	1419.4	1424.1
37.5°	1010.1	1107.5	1186.1	1275.2	1330.0	1380.6	1385.8	1391.1
40°	959.5	1061.6	1144.2	1238.5	1293.4	1340.2	1345.8	1349.5
42.5°	908.7	1010.7	1099.5	1195.3	1249.9	1294.9	1298.3	1302.0
45°	857.2	958.0	1049.2	1147.6	1201.5	1243.7	1245.0	1248.1
47.5°	804.8	903.4	994.1	1093.0	1146.3	1184.9	1186.1	1188.6
50°	752.1	848.9	935.2	1034.1	1086.2	1126.9	1121.4	1123.8
52.5°	700.3	791.6	879.7	970.6	1022.1	1058.2	1059.7	1054.8
55°	649.5	735.5	816.5	904.1	953.1	981.1	980.2	982.0
57.5°	598.0	678.7	753.0	833.2	880.9	907.5	913.0	906.5
60°	545.6	621.4	688.0	760.4	806.7	828.9	835.3	829.2
62.5°	493.5	563.2	623.6	686.8	729.6	757.0	756.4	749.6
65°	441.4	504.6	558.5	612.2	649.5	676.9	675.7	669.5
67.5°	393.3	445.4	493.8	537.3	569.6	588.4	594.9	587.5
70°	340.3	385.3	427.8	462.7	489.5	506.4	512.6	506.1
72.5°	287.3	325.5	355.4	389.0	409.6	423.8	430.3	424.1
75°	234.9	266.3	290.7	316.9	331.4	343.4	350.8	344.6
77.5°	184.0	208.4	227.8	246.9	263.5	266.3	272.8	268.8
80°	135.6	153.2	167.4	180.0	192.0	193.3	198.5	196.0
82.5°	90.3	102.0	105.7	119.0	126.7	125.5	130.7	128.8
85°	47.8	54.9	61.3	65.3	69.7	65.7	70.3	68.4
87.5°	16.0	17.0	14.8	21.0	23.1	19.7	22.5	21.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)