

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: P837956

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-4LO-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: P837956
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-LD4-4LO-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

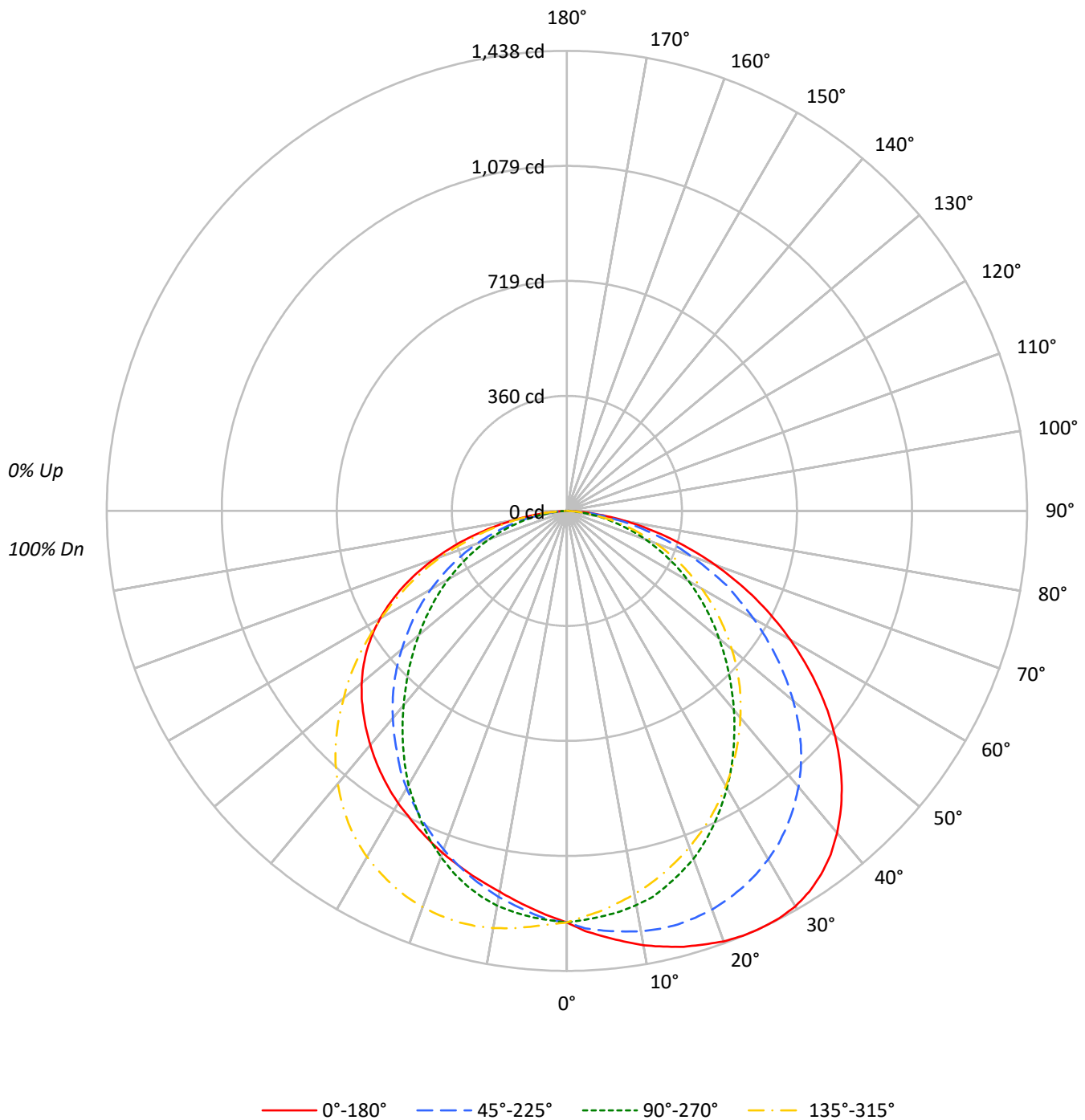
Lumens per Lamp: N/A
Luminaire Lumens: 3773.5 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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°	3461	3461	3461	3461
5°	3607	3436	3371	3442
10°	3768	3419	3303	3424
15°	3929	3375	3271	3376
20°	4101	3314	3256	3295
25°	4271	3221	3256	3188
30°	4436	3109	3278	3075
35°	4553	2982	3311	2934
40°	4614	2853	3357	2789
45°	4623	2723	3422	2654
50°	4580	2599	3506	2529
55°	4485	2483	3584	2414
60°	4344	2362	3631	2301
65°	4149	2223	3612	2172
70°	3876	2061	3484	2023
75°	3487	1837	3197	1828
80°	2957	1539	2687	1562
85°	2056	1019	1704	1047

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.1	3.2
10°-20°	353.6	9.4
20°-30°	541.9	14.4
30°-40°	659.0	17.5
40°-50°	685.0	18.2
50°-60°	618.8	16.4
60°-70°	470.4	12.5
70°-80°	262.2	6.9
80°-90°	60.4	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°	1017.7	27.0
0°-40°	1676.7	44.4
0°-60°	2980.5	79.0
0°-90°	3773.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3773.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1286	1286	1286	1286	1286	
5°	1335	1272	1248	1274	1335	129
15°	1410	1212	1174	1212	1410	400
25°	1438	1085	1097	1074	1438	664
35°	1386	908	1008	893	1386	866
45°	1215	716	899	698	1215	935
55°	956	529	764	514	956	853
65°	652	349	567	341	652	644
75°	335	177	308	176	335	356
85°	67	33	55	34	67	84
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°	1286.2	1286.2	1286.2	1286.2	1286.2	1286.2	1286.2	1286.2	1286.2	1286.2	1286.2
2.5°	1314.7	1295.5	1295.8	1312.6	1299.7	1306.0	1288.0	1294.9	1292.8	1294.3	1279.6
5°	1335.4	1314.7	1314.4	1328.8	1314.4	1317.1	1294.3	1298.8	1292.2	1288.0	1272.1
7.5°	1357.3	1336.6	1334.5	1347.1	1328.2	1326.1	1300.9	1300.9	1288.9	1278.4	1263.4
10°	1378.9	1357.6	1354.9	1364.5	1341.1	1334.2	1303.6	1298.8	1282.9	1267.3	1251.1
12.5°	1395.1	1373.5	1371.4	1377.4	1351.0	1338.4	1303.6	1294.3	1270.9	1249.0	1236.4
15°	1410.4	1388.2	1382.5	1385.5	1355.2	1338.4	1299.4	1285.0	1255.0	1226.2	1211.5
17.5°	1421.2	1399.9	1394.2	1393.9	1357.3	1333.3	1290.4	1270.6	1234.6	1199.8	1185.1
20°	1432.0	1410.7	1403.5	1398.1	1356.7	1326.4	1277.2	1250.5	1208.5	1169.5	1157.2
22.5°	1437.4	1415.5	1407.7	1399.6	1352.8	1313.8	1261.0	1227.1	1179.1	1132.6	1122.4
25°	1438.3	1415.8	1407.4	1395.7	1345.0	1298.8	1240.0	1198.9	1145.2	1093.6	1084.9
27.5°	1435.9	1411.3	1402.9	1388.8	1333.3	1280.5	1215.1	1166.8	1109.2	1052.2	1042.9
30°	1427.5	1402.6	1394.5	1376.2	1316.8	1258.0	1187.8	1131.1	1069.3	1008.7	1000.6
32.5°	1410.7	1386.4	1379.8	1361.5	1298.8	1231.9	1156.0	1092.7	1025.2	967.3	955.3
35°	1386.1	1361.8	1357.6	1338.4	1273.6	1200.7	1121.2	1050.7	978.4	919.3	907.6
37.5°	1354.0	1333.6	1327.3	1308.4	1243.9	1165.3	1081.3	1005.1	930.7	867.1	859.9
40°	1313.5	1294.3	1289.5	1272.7	1209.4	1126.0	1038.1	958.0	881.5	822.4	812.2
42.5°	1267.3	1249.3	1246.6	1229.2	1166.8	1082.5	991.3	909.1	830.2	773.2	763.0
45°	1214.8	1197.4	1196.8	1180.3	1120.3	1034.2	942.1	859.6	780.1	720.9	715.5
47.5°	1156.9	1141.3	1141.3	1126.0	1068.4	981.1	891.4	808.0	729.7	677.4	667.8
50°	1093.9	1079.2	1074.7	1067.2	1011.1	923.2	838.0	757.6	679.8	630.0	620.7
52.5°	1026.7	1014.1	1017.1	1003.3	949.0	862.9	784.0	700.8	629.7	584.4	575.1
55°	955.9	937.9	940.6	935.5	884.2	800.8	723.3	654.0	580.5	537.9	529.2
57.5°	882.4	859.0	868.6	865.6	815.2	737.2	667.8	600.9	531.6	492.3	483.9
60°	807.1	784.6	794.5	791.8	744.4	673.5	610.5	548.4	483.0	447.3	438.9
62.5°	729.7	708.9	717.9	715.8	672.3	608.4	553.5	496.5	434.1	402.0	394.2
65°	651.6	631.8	639.9	638.4	598.2	549.6	495.0	442.8	384.9	357.0	349.2
67.5°	571.8	553.5	561.0	561.0	524.1	477.6	436.2	388.5	336.6	312.6	305.4
70°	492.6	475.5	482.1	481.5	450.3	412.5	376.8	334.2	287.7	267.9	261.9
72.5°	412.8	397.8	403.8	403.2	377.1	352.8	317.4	280.5	240.0	224.1	218.7
75°	335.4	321.3	327.0	326.4	305.1	282.3	258.6	228.0	193.2	182.1	176.7
77.5°	261.6	247.2	252.0	252.0	236.4	219.9	201.0	177.3	152.7	140.7	136.8
80°	190.8	183.9	181.5	181.8	171.3	160.5	150.9	128.1	110.1	102.0	99.3
82.5°	125.4	119.7	117.3	117.9	111.9	105.3	99.3	83.4	71.4	66.6	65.1
85°	66.6	62.4	60.3	61.8	60.6	57.0	54.0	43.2	35.7	33.9	33.0
87.5°	21.0	18.3	16.8	22.2	18.9	16.8	16.2	12.9	9.9	9.9	9.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1286.2	1286.2	1286.2	1286.2	1286.2	1286.2	1286.2	1286.2	1286.2	1286.2	1286.2
2.5°	1284.4	1284.4	1272.7	1270.0	1268.8	1270.3	1258.6	1256.5	1273.3	1267.6	1254.7
5°	1274.2	1273.6	1257.1	1254.1	1254.1	1252.3	1239.1	1236.1	1252.9	1248.1	1234.0
7.5°	1261.6	1259.8	1240.3	1238.2	1235.2	1234.0	1219.3	1217.2	1231.6	1228.6	1215.4
10°	1246.3	1244.5	1221.4	1219.9	1216.6	1214.2	1200.4	1198.9	1213.6	1208.8	1198.3
12.5°	1226.2	1222.9	1199.2	1197.7	1195.0	1194.1	1180.6	1180.0	1196.2	1191.4	1180.3
15°	1199.8	1197.1	1170.7	1171.3	1171.6	1171.6	1160.8	1160.2	1176.1	1174.0	1162.0
17.5°	1170.7	1167.1	1141.9	1143.7	1145.8	1148.2	1139.8	1141.3	1158.1	1155.4	1144.6
20°	1137.7	1134.1	1109.5	1114.6	1119.1	1123.9	1118.5	1122.7	1138.3	1137.1	1129.0
22.5°	1100.8	1097.2	1074.4	1082.2	1089.7	1098.7	1096.3	1101.1	1117.6	1117.3	1110.1
25°	1055.8	1056.7	1036.6	1046.2	1058.8	1071.4	1072.3	1080.1	1098.4	1096.6	1090.0
27.5°	1013.8	1015.0	993.7	1009.9	1026.7	1042.9	1046.8	1057.6	1076.2	1074.7	1069.0
30°	969.7	971.2	950.5	972.7	993.1	1012.9	1021.3	1036.0	1054.9	1054.9	1048.9
32.5°	923.8	926.5	904.9	934.6	958.3	981.4	996.1	1011.4	1033.0	1032.4	1027.3
35°	876.7	879.7	859.9	897.7	921.4	949.6	967.9	988.3	1007.5	1007.8	1003.9
37.5°	828.7	832.3	814.3	855.7	882.7	916.0	939.4	959.8	981.1	982.3	978.7
40°	781.0	784.9	769.3	809.2	843.4	880.6	907.6	931.6	955.0	955.6	953.2
42.5°	733.3	737.5	725.8	764.8	803.5	843.4	875.2	902.5	926.5	928.0	925.3
45°	686.7	690.3	681.9	724.5	761.8	805.3	841.9	872.8	897.1	899.2	898.3
47.5°	640.5	643.8	636.3	675.3	718.2	764.5	806.8	841.0	866.8	869.2	868.6
50°	595.2	597.9	589.8	630.6	673.2	722.4	766.6	806.2	835.0	837.4	837.1
52.5°	550.2	552.9	546.0	588.9	627.6	679.5	727.6	770.5	799.0	802.6	803.2
55°	506.7	507.9	502.5	543.6	581.1	635.4	690.6	732.4	760.9	763.9	765.7
57.5°	463.2	463.5	459.0	498.3	534.3	589.8	647.7	691.5	718.5	721.5	724.2
60°	420.0	419.7	414.6	452.7	487.2	542.1	602.4	645.9	672.0	674.7	678.3
62.5°	377.1	376.2	371.7	406.8	439.2	493.5	554.1	596.1	621.0	622.8	627.6
65°	334.5	333.6	329.4	361.8	391.2	443.1	502.5	542.4	564.9	567.3	566.4
67.5°	292.5	290.7	287.4	316.5	343.2	391.2	448.2	486.3	504.9	507.0	512.7
70°	250.5	248.4	240.9	271.8	295.2	338.1	391.2	425.1	440.7	442.8	441.9
72.5°	209.1	207.0	198.9	227.4	247.2	284.7	332.1	360.3	373.8	375.6	375.6
75°	168.9	167.7	162.6	184.2	200.7	231.3	271.5	294.9	305.4	307.5	306.9
77.5°	130.2	129.3	124.2	142.8	155.7	178.5	210.9	229.2	237.0	239.4	244.5
80°	93.3	93.0	84.9	103.2	108.9	128.1	151.8	165.9	170.1	173.4	177.0
82.5°	59.7	60.0	51.9	67.5	69.9	82.2	96.9	105.6	108.6	111.3	114.0
85°	29.1	30.3	25.8	35.7	36.0	42.3	48.6	51.9	53.1	55.2	57.6
87.5°	7.5	8.7	4.8	10.2	9.0	11.7	13.5	14.4	14.1	15.6	16.5
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°	1286.2	1286.2	1286.2	1286.2	1286.2	1286.2	1286.2	1286.2	1286.2	1286.2	1286.2
2.5°	1258.9	1268.5	1263.7	1279.3	1285.3	1275.7	1292.5	1292.8	1280.8	1294.9	1302.7
5°	1239.4	1249.3	1246.3	1262.5	1270.0	1261.6	1282.0	1285.9	1274.2	1290.1	1302.7
7.5°	1219.6	1231.3	1227.4	1243.9	1252.9	1246.3	1268.2	1274.5	1265.5	1282.9	1299.7
10°	1202.5	1212.4	1208.2	1225.6	1233.4	1228.0	1249.6	1261.3	1252.9	1274.2	1294.3
12.5°	1185.7	1193.8	1189.0	1203.4	1210.9	1204.0	1230.4	1241.2	1235.2	1257.4	1283.2
15°	1164.1	1173.1	1166.5	1179.4	1185.1	1179.1	1200.7	1219.3	1211.8	1236.1	1264.6
17.5°	1147.6	1152.7	1143.7	1153.9	1157.2	1149.1	1171.0	1189.3	1183.9	1210.3	1243.3
20°	1129.3	1133.5	1120.9	1126.6	1126.3	1116.1	1136.2	1154.2	1150.6	1179.7	1217.2
22.5°	1108.9	1111.0	1096.3	1097.5	1096.9	1080.1	1098.1	1116.4	1114.9	1144.3	1186.3
25°	1087.3	1087.6	1068.7	1068.1	1061.5	1041.7	1057.6	1078.3	1073.8	1105.6	1149.7
27.5°	1066.0	1063.0	1040.2	1034.8	1024.3	1000.6	1014.7	1033.3	1030.6	1061.8	1110.7
30°	1043.2	1039.3	1011.4	1001.5	986.2	958.9	970.6	988.0	989.5	1016.8	1068.1
32.5°	1021.6	1011.7	980.8	966.4	947.2	915.4	921.7	939.4	941.8	969.4	1022.2
35°	993.7	987.1	949.0	924.4	905.5	870.7	877.3	889.6	893.2	920.2	973.9
37.5°	967.3	956.8	916.3	886.3	862.0	825.4	827.2	839.8	843.4	870.7	923.8
40°	940.0	925.0	881.5	846.4	818.5	780.1	778.0	791.2	793.9	820.6	868.6
42.5°	910.9	892.9	844.0	805.6	773.5	734.5	730.3	741.7	744.7	770.8	817.9
45°	881.5	859.9	805.6	763.6	728.5	688.5	684.3	693.0	697.5	722.1	767.5
47.5°	850.3	825.1	766.0	719.1	682.8	642.9	637.8	646.5	650.1	674.4	717.3
50°	817.6	787.0	725.1	673.5	637.5	598.2	590.7	600.9	604.2	627.0	669.0
52.5°	781.6	747.7	681.6	627.6	591.6	554.1	545.1	555.0	558.9	581.1	619.8
55°	743.5	706.8	637.8	585.3	546.3	509.7	502.2	506.1	514.5	535.5	571.5
57.5°	700.5	664.2	591.6	538.2	500.7	465.6	459.3	462.9	470.7	491.1	523.5
60°	654.9	616.5	544.5	491.1	454.8	421.5	415.8	419.1	427.5	446.1	476.1
62.5°	609.9	566.7	495.9	442.8	409.8	378.9	377.4	376.2	384.0	402.0	428.4
65°	555.3	513.9	445.2	394.8	364.8	336.9	330.9	333.6	341.1	357.6	385.2
67.5°	496.8	459.3	393.3	346.8	320.1	295.2	290.1	291.3	299.1	313.5	337.5
70°	434.7	401.7	340.2	298.5	276.0	252.6	249.3	249.6	257.1	269.7	290.7
72.5°	369.6	339.9	286.5	250.8	232.2	215.4	212.4	208.8	215.7	226.5	244.5
75°	303.3	277.2	233.1	204.0	189.3	175.2	172.5	168.9	175.8	185.1	199.2
77.5°	236.4	215.4	181.2	158.7	147.3	136.8	134.4	130.5	137.4	144.3	155.4
80°	171.0	155.7	135.3	111.6	107.7	100.8	98.4	94.2	100.8	105.3	113.7
82.5°	110.4	100.2	88.5	72.0	71.4	66.3	65.1	60.3	66.3	69.0	75.3
85°	55.8	51.0	48.0	36.6	37.8	34.5	34.2	29.1	33.9	35.1	38.7
87.5°	15.9	16.8	15.0	9.0	11.4	10.8	10.8	7.8	10.8	10.8	12.3
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: P837956

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-4LO-27-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1286.2	1286.2	1286.2	1286.2	1286.2	1286.2	1286.2	1286.2
2.5°	1287.4	1292.5	1293.7	1293.4	1296.7	1314.7	1308.7	1314.7
5°	1290.4	1301.8	1304.8	1309.0	1314.4	1334.8	1328.2	1335.4
7.5°	1292.2	1309.3	1315.9	1324.0	1332.7	1355.5	1350.1	1357.3
10°	1292.2	1314.4	1324.0	1337.5	1349.2	1375.6	1370.5	1378.9
12.5°	1286.8	1315.3	1328.8	1347.7	1362.7	1391.2	1389.1	1395.1
15°	1275.7	1310.8	1329.4	1353.7	1372.3	1404.1	1403.2	1410.4
17.5°	1260.7	1303.0	1325.5	1356.1	1379.5	1415.2	1417.3	1421.2
20°	1241.8	1288.3	1317.7	1355.2	1384.6	1423.9	1426.6	1432.0
22.5°	1216.9	1270.6	1306.0	1351.3	1385.2	1427.5	1432.3	1437.4
25°	1187.5	1249.3	1290.7	1343.8	1382.2	1427.2	1433.8	1438.3
27.5°	1153.9	1221.7	1271.2	1331.8	1373.8	1422.4	1430.5	1435.9
30°	1114.9	1192.3	1249.0	1316.2	1362.4	1413.4	1422.1	1427.5
32.5°	1074.7	1159.9	1222.6	1296.1	1345.9	1399.0	1406.5	1410.7
35°	1030.9	1120.6	1190.8	1270.3	1324.6	1375.9	1381.6	1386.1
37.5°	983.2	1078.0	1154.5	1241.2	1294.6	1343.8	1348.9	1354.0
40°	934.0	1033.3	1113.7	1205.5	1258.9	1304.5	1309.9	1313.5
42.5°	884.5	983.8	1070.2	1163.5	1216.6	1260.4	1263.7	1267.3
45°	834.4	932.5	1021.3	1117.0	1169.5	1210.6	1211.8	1214.8
47.5°	783.4	879.4	967.6	1063.9	1115.8	1153.3	1154.5	1156.9
50°	732.1	826.3	910.3	1006.6	1057.3	1096.9	1091.5	1093.9
52.5°	681.6	770.5	856.3	944.8	994.9	1030.0	1031.5	1026.7
55°	632.1	715.8	794.8	880.0	927.7	955.0	954.1	955.9
57.5°	582.0	660.6	733.0	811.0	857.5	883.3	888.7	882.4
60°	531.0	604.8	669.6	740.2	785.2	806.8	813.1	807.1
62.5°	480.3	548.1	606.9	668.4	710.1	736.9	736.3	729.7
65°	429.6	491.1	543.6	595.8	632.1	658.8	657.6	651.6
67.5°	382.8	433.5	480.6	522.9	554.4	572.7	579.0	571.8
70°	331.2	375.0	416.4	450.3	476.4	492.9	498.9	492.6
72.5°	279.6	316.8	345.9	378.6	398.7	412.5	418.8	412.8
75°	228.6	259.2	282.9	308.4	322.5	334.2	341.4	335.4
77.5°	179.1	202.8	221.7	240.3	256.5	259.2	265.5	261.6
80°	132.0	149.1	162.9	175.2	186.9	188.1	193.2	190.8
82.5°	87.9	99.3	102.9	115.8	123.3	122.1	127.2	125.4
85°	46.5	53.4	59.7	63.6	67.8	63.9	68.4	66.6
87.5°	15.6	16.5	14.4	20.4	22.5	19.2	21.9	21.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)