

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: P837939

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-4STD-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: P837939
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-LD4-4STD-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

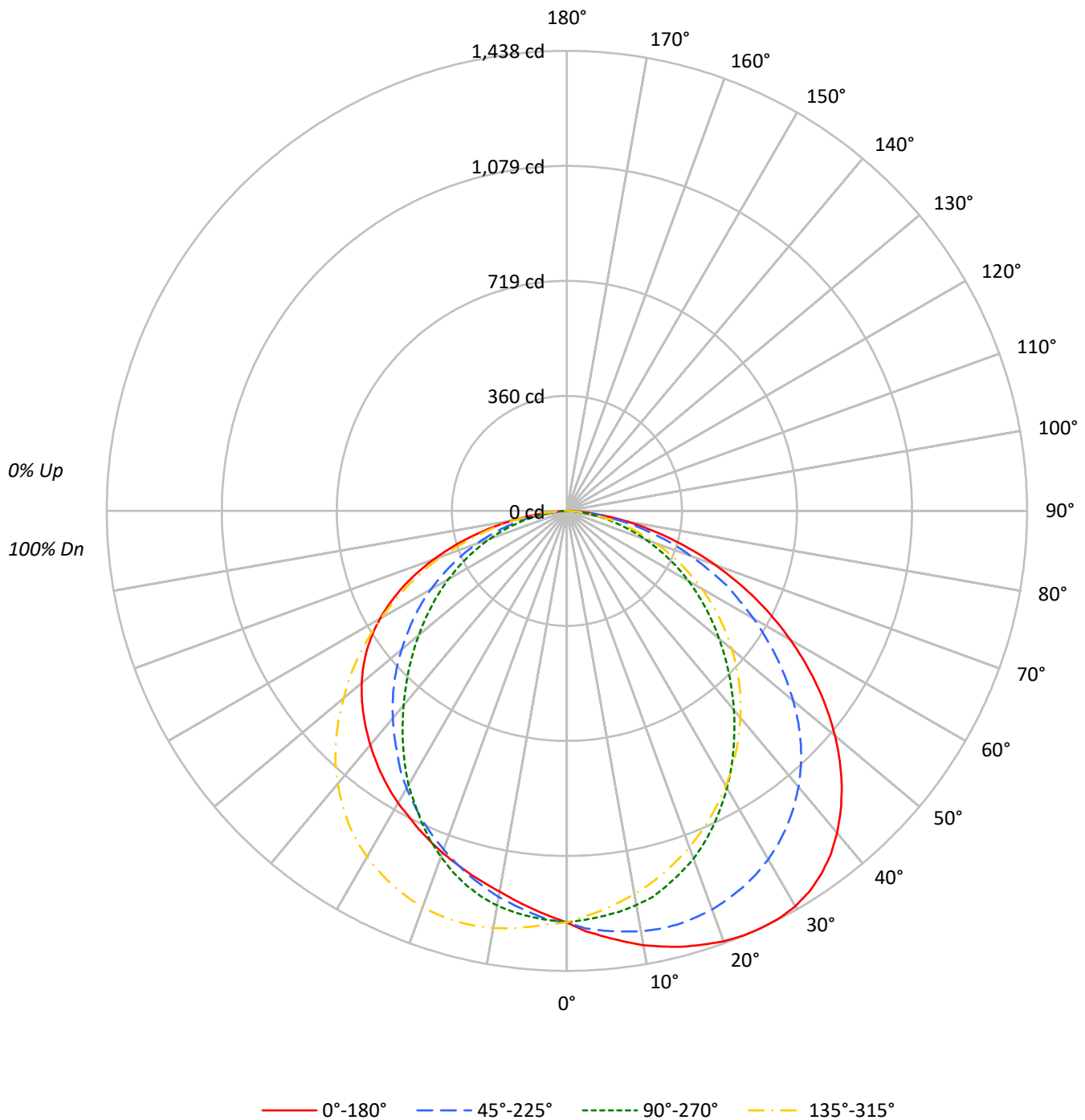
Lumens per Lamp: N/A
Luminaire Lumens: 3773.2 lumens
Efficiency: N/A
Efficacy: 56.7 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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	100		
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84		
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70		
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	59		
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38		
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33		
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29		
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26		
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	3461	3461	3461	3461
5°	3607	3436	3371	3442
10°	3768	3418	3303	3423
15°	3929	3375	3270	3376
20°	4101	3314	3256	3295
25°	4270	3221	3256	3188
30°	4435	3109	3278	3074
35°	4553	2981	3310	2934
40°	4614	2853	3357	2788
45°	4623	2723	3422	2654
50°	4579	2599	3505	2529
55°	4484	2483	3583	2414
60°	4343	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°	658.9	17.5
40°-50°	685.0	18.2
50°-60°	618.7	16.4
60°-70°	470.4	12.5
70°-80°	262.2	7.0
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°	1017.6	27.0
0°-40°	1676.5	44.4
0°-60°	2980.2	79.0
0°-90°	3773.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3773.2	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	1211	1174	1212	1410	400
25°	1438	1085	1096	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°	1286.1	1286.1	1286.1	1286.1	1286.1	1286.1	1286.1	1286.1	1286.1	1286.1	1286.1
2.5°	1314.6	1295.4	1295.7	1312.5	1299.6	1305.9	1287.9	1294.8	1292.7	1294.2	1279.5
5°	1335.3	1314.6	1314.3	1328.7	1314.3	1317.0	1294.2	1298.7	1292.1	1287.9	1272.0
7.5°	1357.2	1336.5	1334.4	1347.0	1328.1	1326.0	1300.8	1300.8	1288.8	1278.3	1263.3
10°	1378.8	1357.5	1354.8	1364.4	1341.0	1334.1	1303.5	1298.7	1282.8	1267.2	1251.0
12.5°	1395.0	1373.4	1371.3	1377.3	1350.9	1338.3	1303.5	1294.2	1270.8	1248.9	1236.3
15°	1410.3	1388.1	1382.4	1385.4	1355.1	1338.3	1299.3	1284.9	1254.9	1226.1	1211.4
17.5°	1421.1	1399.8	1394.1	1393.8	1357.2	1333.2	1290.3	1270.5	1234.5	1199.7	1185.0
20°	1431.9	1410.6	1403.4	1398.0	1356.6	1326.3	1277.1	1250.4	1208.4	1169.4	1157.1
22.5°	1437.3	1415.4	1407.6	1399.5	1352.7	1313.7	1260.9	1227.0	1179.0	1132.5	1122.3
25°	1438.2	1415.7	1407.3	1395.6	1344.9	1298.7	1239.9	1198.8	1145.1	1093.5	1084.8
27.5°	1435.8	1411.2	1402.8	1388.7	1333.2	1280.4	1215.0	1166.7	1109.1	1052.1	1042.8
30°	1427.4	1402.5	1394.4	1376.1	1316.7	1257.9	1187.7	1131.0	1069.2	1008.6	1000.5
32.5°	1410.6	1386.3	1379.7	1361.4	1298.7	1231.8	1155.9	1092.6	1025.1	967.2	955.2
35°	1386.0	1361.7	1357.5	1338.3	1273.5	1200.6	1121.1	1050.6	978.3	919.2	907.5
37.5°	1353.9	1333.5	1327.2	1308.3	1243.8	1165.2	1081.2	1005.0	930.6	867.0	859.8
40°	1313.4	1294.2	1289.4	1272.6	1209.3	1125.9	1038.0	957.9	881.4	822.3	812.1
42.5°	1267.2	1249.2	1246.5	1229.1	1166.7	1082.4	991.2	909.0	830.1	773.1	762.9
45°	1214.7	1197.3	1196.7	1180.2	1120.2	1034.1	942.0	859.5	780.0	720.9	715.5
47.5°	1156.8	1141.2	1141.2	1125.9	1068.3	981.0	891.3	807.9	729.6	677.4	667.8
50°	1093.8	1079.1	1074.6	1067.1	1011.0	923.1	837.9	757.5	679.8	630.0	620.7
52.5°	1026.6	1014.0	1017.0	1003.2	948.9	862.8	783.9	700.8	629.7	584.4	575.1
55°	955.8	937.8	940.5	935.4	884.1	800.7	723.3	654.0	580.5	537.9	529.2
57.5°	882.3	858.9	868.5	865.5	815.1	737.1	667.8	600.9	531.6	492.3	483.9
60°	807.0	784.5	794.4	791.7	744.3	673.5	610.5	548.4	483.0	447.3	438.9
62.5°	729.6	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°	1286.1	1286.1	1286.1	1286.1	1286.1	1286.1	1286.1	1286.1	1286.1	1286.1	1286.1
2.5°	1284.3	1284.3	1272.6	1269.9	1268.7	1270.2	1258.5	1256.4	1273.2	1267.5	1254.6
5°	1274.1	1273.5	1257.0	1254.0	1254.0	1252.2	1239.0	1236.0	1252.8	1248.0	1233.9
7.5°	1261.5	1259.7	1240.2	1238.1	1235.1	1233.9	1219.2	1217.1	1231.5	1228.5	1215.3
10°	1246.2	1244.4	1221.3	1219.8	1216.5	1214.1	1200.3	1198.8	1213.5	1208.7	1198.2
12.5°	1226.1	1222.8	1199.1	1197.6	1194.9	1194.0	1180.5	1179.9	1196.1	1191.3	1180.2
15°	1199.7	1197.0	1170.6	1171.2	1171.5	1171.5	1160.7	1160.1	1176.0	1173.9	1161.9
17.5°	1170.6	1167.0	1141.8	1143.6	1145.7	1148.1	1139.7	1141.2	1158.0	1155.3	1144.5
20°	1137.6	1134.0	1109.4	1114.5	1119.0	1123.8	1118.4	1122.6	1138.2	1137.0	1128.9
22.5°	1100.7	1097.1	1074.3	1082.1	1089.6	1098.6	1096.2	1101.0	1117.5	1117.2	1110.0
25°	1055.7	1056.6	1036.5	1046.1	1058.7	1071.3	1072.2	1080.0	1098.3	1096.5	1089.9
27.5°	1013.7	1014.9	993.6	1009.8	1026.6	1042.8	1046.7	1057.5	1076.1	1074.6	1068.9
30°	969.6	971.1	950.4	972.6	993.0	1012.8	1021.2	1035.9	1054.8	1054.8	1048.8
32.5°	923.7	926.4	904.8	934.5	958.2	981.3	996.0	1011.3	1032.9	1032.3	1027.2
35°	876.6	879.6	859.8	897.6	921.3	949.5	967.8	988.2	1007.4	1007.7	1003.8
37.5°	828.6	832.2	814.2	855.6	882.6	915.9	939.3	959.7	981.0	982.2	978.6
40°	780.9	784.8	769.2	809.1	843.3	880.5	907.5	931.5	954.9	955.5	953.1
42.5°	733.2	737.4	725.7	764.7	803.4	843.3	875.1	902.4	926.4	927.9	925.2
45°	686.7	690.3	681.9	724.5	761.7	805.2	841.8	872.7	897.0	899.1	898.2
47.5°	640.5	643.8	636.3	675.3	718.2	764.4	806.7	840.9	866.7	869.1	868.5
50°	595.2	597.9	589.8	630.6	673.2	722.4	766.5	806.1	834.9	837.3	837.0
52.5°	550.2	552.9	546.0	588.9	627.6	679.5	727.5	770.4	798.9	802.5	803.1
55°	506.7	507.9	502.5	543.6	581.1	635.4	690.6	732.3	760.8	763.8	765.6
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°	1286.1	1286.1	1286.1	1286.1	1286.1	1286.1	1286.1	1286.1	1286.1	1286.1	1286.1
2.5°	1258.8	1268.4	1263.6	1279.2	1285.2	1275.6	1292.4	1292.7	1280.7	1294.8	1302.6
5°	1239.3	1249.2	1246.2	1262.4	1269.9	1261.5	1281.9	1285.8	1274.1	1290.0	1302.6
7.5°	1219.5	1231.2	1227.3	1243.8	1252.8	1246.2	1268.1	1274.4	1265.4	1282.8	1299.6
10°	1202.4	1212.3	1208.1	1225.5	1233.3	1227.9	1249.5	1261.2	1252.8	1274.1	1294.2
12.5°	1185.6	1193.7	1188.9	1203.3	1210.8	1203.9	1230.3	1241.1	1235.1	1257.3	1283.1
15°	1164.0	1173.0	1166.4	1179.3	1185.0	1179.0	1200.6	1219.2	1211.7	1236.0	1264.5
17.5°	1147.5	1152.6	1143.6	1153.8	1157.1	1149.0	1170.9	1189.2	1183.8	1210.2	1243.2
20°	1129.2	1133.4	1120.8	1126.5	1126.2	1116.0	1136.1	1154.1	1150.5	1179.6	1217.1
22.5°	1108.8	1110.9	1096.2	1097.4	1096.8	1080.0	1098.0	1116.3	1114.8	1144.2	1186.2
25°	1087.2	1087.5	1068.6	1068.0	1061.4	1041.6	1057.5	1078.2	1073.7	1105.5	1149.6
27.5°	1065.9	1062.9	1040.1	1034.7	1024.2	1000.5	1014.6	1033.2	1030.5	1061.7	1110.6
30°	1043.1	1039.2	1011.3	1001.4	986.1	958.8	970.5	987.9	989.4	1016.7	1068.0
32.5°	1021.5	1011.6	980.7	966.3	947.1	915.3	921.6	939.3	941.7	969.3	1022.1
35°	993.6	987.0	948.9	924.3	905.4	870.6	877.2	889.5	893.1	920.1	973.8
37.5°	967.2	956.7	916.2	886.2	861.9	825.3	827.1	839.7	843.3	870.6	923.7
40°	939.9	924.9	881.4	846.3	818.4	780.0	777.9	791.1	793.8	820.5	868.5
42.5°	910.8	892.8	843.9	805.5	773.4	734.4	730.2	741.6	744.6	770.7	817.8
45°	881.4	859.8	805.5	763.5	728.4	688.5	684.3	693.0	697.5	722.1	767.4
47.5°	850.2	825.0	765.9	719.1	682.8	642.9	637.8	646.5	650.1	674.4	717.3
50°	817.5	786.9	725.1	673.5	637.5	598.2	590.7	600.9	604.2	627.0	669.0
52.5°	781.5	747.6	681.6	627.6	591.6	554.1	545.1	555.0	558.9	581.1	619.8
55°	743.4	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: P837939

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

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1286.1	1286.1	1286.1	1286.1	1286.1	1286.1	1286.1	1286.1
2.5°	1287.3	1292.4	1293.6	1293.3	1296.6	1314.6	1308.6	1314.6
5°	1290.3	1301.7	1304.7	1308.9	1314.3	1334.7	1328.1	1335.3
7.5°	1292.1	1309.2	1315.8	1323.9	1332.6	1355.4	1350.0	1357.2
10°	1292.1	1314.3	1323.9	1337.4	1349.1	1375.5	1370.4	1378.8
12.5°	1286.7	1315.2	1328.7	1347.6	1362.6	1391.1	1389.0	1395.0
15°	1275.6	1310.7	1329.3	1353.6	1372.2	1404.0	1403.1	1410.3
17.5°	1260.6	1302.9	1325.4	1356.0	1379.4	1415.1	1417.2	1421.1
20°	1241.7	1288.2	1317.6	1355.1	1384.5	1423.8	1426.5	1431.9
22.5°	1216.8	1270.5	1305.9	1351.2	1385.1	1427.4	1432.2	1437.3
25°	1187.4	1249.2	1290.6	1343.7	1382.1	1427.1	1433.7	1438.2
27.5°	1153.8	1221.6	1271.1	1331.7	1373.7	1422.3	1430.4	1435.8
30°	1114.8	1192.2	1248.9	1316.1	1362.3	1413.3	1422.0	1427.4
32.5°	1074.6	1159.8	1222.5	1296.0	1345.8	1398.9	1406.4	1410.6
35°	1030.8	1120.5	1190.7	1270.2	1324.5	1375.8	1381.5	1386.0
37.5°	983.1	1077.9	1154.4	1241.1	1294.5	1343.7	1348.8	1353.9
40°	933.9	1033.2	1113.6	1205.4	1258.8	1304.4	1309.8	1313.4
42.5°	884.4	983.7	1070.1	1163.4	1216.5	1260.3	1263.6	1267.2
45°	834.3	932.4	1021.2	1116.9	1169.4	1210.5	1211.7	1214.7
47.5°	783.3	879.3	967.5	1063.8	1115.7	1153.2	1154.4	1156.8
50°	732.0	826.2	910.2	1006.5	1057.2	1096.8	1091.4	1093.8
52.5°	681.6	770.4	856.2	944.7	994.8	1029.9	1031.4	1026.6
55°	632.1	715.8	794.7	879.9	927.6	954.9	954.0	955.8
57.5°	582.0	660.6	732.9	810.9	857.4	883.2	888.6	882.3
60°	531.0	604.8	669.6	740.1	785.1	806.7	813.0	807.0
62.5°	480.3	548.1	606.9	668.4	710.1	736.8	736.2	729.6
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)