

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: P837917

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-3LO-50-120-EDD**

Issue Date: 5/21/2024



Test Information

Test Method: LM-79-08
Report Number: P837917
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-LD4-3LO-50-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and RFI grid
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

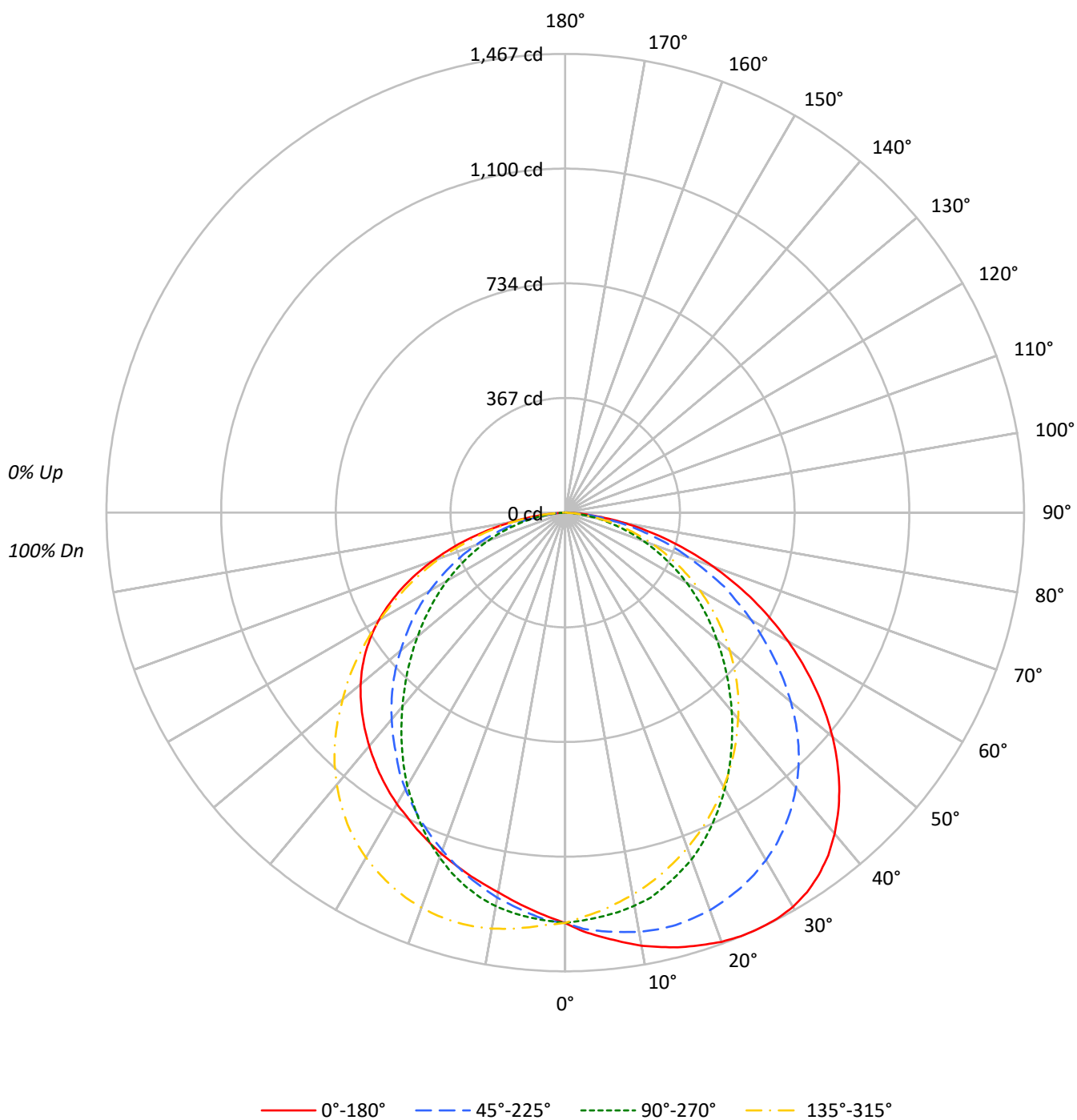
Lumens per Lamp: N/A
Luminaire Lumens: 3849.4 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

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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°	3531	3531	3531	3531
5°	3680	3505	3439	3511
10°	3844	3487	3369	3492
15°	4008	3443	3336	3444
20°	4183	3381	3322	3361
25°	4356	3286	3321	3252
30°	4525	3172	3344	3136
35°	4645	3041	3377	2993
40°	4707	2910	3424	2845
45°	4716	2778	3491	2708
50°	4672	2651	3576	2581
55°	4575	2533	3656	2463
60°	4431	2410	3704	2347
65°	4233	2268	3685	2216
70°	3954	2102	3554	2064
75°	3558	1875	3262	1864
80°	3017	1570	2741	1593
85°	2096	1041	1738	1068

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.6	3.2
10°-20°	360.7	9.4
20°-30°	552.8	14.4
30°-40°	672.2	17.5
40°-50°	698.8	18.2
50°-60°	631.2	16.4
60°-70°	479.9	12.5
70°-80°	267.5	7.0
80°-90°	61.6	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°	1038.1	27.0
0°-40°	1710.3	44.4
0°-60°	3040.4	79.0
0°-90°	3849.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3849.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1312	1312	1312	1312	1312	
5°	1362	1298	1273	1300	1362	131
15°	1439	1236	1198	1236	1439	408
25°	1467	1107	1119	1095	1467	678
35°	1414	926	1028	911	1414	883
45°	1239	730	917	712	1239	954
55°	975	540	779	525	975	870
65°	665	356	579	348	665	657
75°	342	180	314	179	342	363
85°	68	34	56	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°	1312.1	1312.1	1312.1	1312.1	1312.1	1312.1	1312.1	1312.1	1312.1	1312.1	1312.1
2.5°	1341.1	1321.6	1321.9	1339.0	1325.8	1332.3	1313.9	1320.9	1318.8	1320.3	1305.3
5°	1362.3	1341.1	1340.8	1355.5	1340.8	1343.6	1320.3	1324.9	1318.2	1313.9	1297.7
7.5°	1384.6	1363.5	1361.3	1374.2	1354.9	1352.8	1327.1	1327.1	1314.8	1304.1	1288.8
10°	1406.6	1384.9	1382.2	1391.9	1368.1	1361.0	1329.8	1324.9	1308.7	1292.8	1276.3
12.5°	1423.2	1401.1	1399.0	1405.1	1378.2	1365.3	1329.8	1320.3	1296.5	1274.1	1261.3
15°	1438.8	1416.1	1410.3	1413.4	1382.5	1365.3	1325.5	1310.8	1280.2	1250.9	1235.9
17.5°	1449.8	1428.1	1422.2	1421.9	1384.6	1360.1	1316.3	1296.1	1259.4	1223.9	1208.9
20°	1460.8	1439.1	1431.7	1426.2	1384.0	1353.1	1302.9	1275.6	1232.8	1193.0	1180.5
22.5°	1466.3	1444.0	1436.0	1427.8	1380.0	1340.2	1286.4	1251.8	1202.8	1155.4	1145.0
25°	1467.2	1444.3	1435.7	1423.8	1372.1	1324.9	1264.9	1223.0	1168.2	1115.6	1106.7
27.5°	1464.8	1439.7	1431.1	1416.7	1360.1	1306.2	1239.5	1190.3	1131.5	1073.3	1063.9
30°	1456.2	1430.8	1422.6	1403.9	1343.3	1283.3	1211.7	1153.8	1090.8	1029.0	1020.7
32.5°	1439.1	1414.3	1407.6	1388.9	1324.9	1256.7	1179.2	1114.7	1045.8	986.7	974.5
35°	1414.0	1389.2	1384.9	1365.3	1299.2	1224.8	1143.7	1071.8	998.1	937.8	925.8
37.5°	1381.2	1360.4	1354.0	1334.7	1268.9	1188.7	1103.0	1025.3	949.4	884.5	877.2
40°	1339.9	1320.3	1315.4	1298.3	1233.7	1148.6	1059.0	977.2	899.2	838.9	828.5
42.5°	1292.8	1274.4	1271.7	1253.9	1190.3	1104.3	1011.2	927.4	846.9	788.7	778.3
45°	1239.2	1221.5	1220.9	1204.0	1142.8	1055.0	961.0	876.9	795.7	735.5	729.9
47.5°	1180.2	1164.2	1164.2	1148.6	1089.9	1000.8	909.3	824.2	744.3	691.1	681.3
50°	1115.9	1100.9	1096.3	1088.6	1031.4	941.7	854.8	772.8	693.5	642.7	633.2
52.5°	1047.3	1034.5	1037.5	1023.5	968.1	880.2	799.7	714.9	642.4	596.2	586.7
55°	975.1	956.7	959.5	954.3	901.9	816.9	737.9	667.2	592.2	548.8	539.9
57.5°	900.1	876.2	886.0	883.0	831.6	752.0	681.3	613.0	542.3	502.2	493.7
60°	823.3	800.3	810.4	807.7	759.3	687.1	622.8	559.5	492.8	456.3	447.8
62.5°	744.3	723.2	732.4	730.3	685.9	620.7	564.7	506.5	442.9	410.1	402.2
65°	664.8	644.6	652.8	651.3	610.3	560.7	505.0	451.7	392.7	364.2	356.2
67.5°	583.3	564.7	572.3	572.3	534.7	487.2	445.0	396.3	343.4	318.9	311.6
70°	502.5	485.1	491.8	491.2	459.4	420.8	384.4	340.9	293.5	273.3	267.2
72.5°	421.1	405.8	412.0	411.3	384.7	359.9	323.8	286.2	244.8	228.6	223.1
75°	342.2	327.8	333.6	333.0	311.3	288.0	263.8	232.6	197.1	185.8	180.3
77.5°	266.9	252.2	257.1	257.1	241.2	224.3	205.1	180.9	155.8	143.5	139.6
80°	194.7	187.6	185.2	185.5	174.8	163.7	153.9	130.7	112.3	104.1	101.3
82.5°	127.9	122.1	119.7	120.3	114.2	107.4	101.3	85.1	72.8	67.9	66.4
85°	67.9	63.7	61.5	63.0	61.8	58.2	55.1	44.1	36.4	34.6	33.7
87.5°	21.4	18.7	17.1	22.6	19.3	17.1	16.5	13.2	10.1	10.1	9.8
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°	1312.1	1312.1	1312.1	1312.1	1312.1	1312.1	1312.1	1312.1	1312.1	1312.1	1312.1
2.5°	1310.2	1310.2	1298.3	1295.5	1294.3	1295.8	1283.9	1281.8	1298.9	1293.1	1279.9
5°	1299.8	1299.2	1282.4	1279.3	1279.3	1277.5	1264.0	1261.0	1278.1	1273.2	1258.8
7.5°	1287.0	1285.1	1265.2	1263.1	1260.0	1258.8	1243.8	1241.7	1256.4	1253.3	1239.8
10°	1271.4	1269.5	1246.0	1244.4	1241.1	1238.6	1224.5	1223.0	1238.0	1233.1	1222.4
12.5°	1250.9	1247.5	1223.3	1221.8	1219.0	1218.1	1204.3	1203.7	1220.2	1215.4	1204.0
15°	1223.9	1221.2	1194.2	1194.8	1195.2	1195.2	1184.1	1183.5	1199.7	1197.6	1185.4
17.5°	1194.2	1190.6	1164.9	1166.7	1168.8	1171.3	1162.7	1164.2	1181.4	1178.6	1167.6
20°	1160.6	1156.9	1131.8	1137.0	1141.6	1146.5	1141.0	1145.3	1161.2	1160.0	1151.7
22.5°	1122.9	1119.2	1096.0	1103.9	1111.6	1120.8	1118.3	1123.2	1140.1	1139.8	1132.4
25°	1077.0	1077.9	1057.4	1067.2	1080.1	1092.9	1093.8	1101.8	1120.5	1118.6	1111.9
27.5°	1034.2	1035.4	1013.7	1030.2	1047.3	1063.9	1067.8	1078.8	1097.8	1096.3	1090.5
30°	989.2	990.7	969.6	992.2	1013.0	1033.2	1041.8	1056.8	1076.1	1076.1	1070.0
32.5°	942.3	945.1	923.1	953.4	977.5	1001.1	1016.1	1031.7	1053.8	1053.1	1047.9
35°	894.3	897.4	877.2	915.7	939.9	968.7	987.3	1008.2	1027.7	1028.0	1024.1
37.5°	845.3	849.0	830.6	872.9	900.4	934.4	958.3	979.1	1000.8	1002.0	998.4
40°	796.7	800.6	784.7	825.4	860.3	898.3	925.8	950.3	974.2	974.8	972.3
42.5°	748.0	752.3	740.4	780.1	819.6	860.3	892.8	920.6	945.1	946.6	943.9
45°	700.6	704.2	695.7	739.1	777.1	821.5	858.8	890.3	915.1	917.3	916.3
47.5°	653.4	656.8	649.1	688.9	732.7	779.8	823.0	857.9	884.2	886.6	886.0
50°	607.2	610.0	601.7	643.3	686.8	737.0	782.0	822.4	851.8	854.2	853.9
52.5°	561.3	564.1	557.0	600.8	640.3	693.2	742.2	786.0	815.0	818.7	819.3
55°	516.9	518.2	512.6	554.6	592.8	648.2	704.5	747.1	776.2	779.2	781.1
57.5°	472.6	472.9	468.3	508.4	545.1	601.7	660.8	705.5	733.0	736.1	738.8
60°	428.5	428.2	423.0	461.8	497.0	553.0	614.6	658.9	685.6	688.3	692.0
62.5°	384.7	383.8	379.2	415.0	448.1	503.5	565.3	608.1	633.5	635.4	640.3
65°	341.3	340.3	336.1	369.1	399.1	452.0	512.6	553.4	576.3	578.8	577.8
67.5°	298.4	296.6	293.2	322.9	350.1	399.1	457.2	496.1	515.1	517.2	523.1
70°	255.6	253.4	245.8	277.3	301.2	344.9	399.1	433.7	449.6	451.7	450.8
72.5°	213.3	211.2	202.9	232.0	252.2	290.4	338.8	367.6	381.3	383.2	383.2
75°	172.3	171.1	165.9	187.9	204.8	236.0	277.0	300.9	311.6	313.7	313.1
77.5°	132.8	131.9	126.7	145.7	158.8	182.1	215.2	233.8	241.8	244.2	249.4
80°	95.2	94.9	86.6	105.3	111.1	130.7	154.9	169.2	173.5	176.9	180.6
82.5°	60.9	61.2	52.9	68.9	71.3	83.9	98.9	107.7	110.8	113.5	116.3
85°	29.7	30.9	26.3	36.4	36.7	43.2	49.6	52.9	54.2	56.3	58.8
87.5°	7.7	8.9	4.9	10.4	9.2	11.9	13.8	14.7	14.4	15.9	16.8
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°	1312.1	1312.1	1312.1	1312.1	1312.1	1312.1	1312.1	1312.1	1312.1	1312.1	1312.1
2.5°	1284.2	1294.0	1289.1	1305.0	1311.1	1301.4	1318.5	1318.8	1306.6	1320.9	1328.9
5°	1264.3	1274.4	1271.4	1287.9	1295.5	1287.0	1307.8	1311.8	1299.8	1316.0	1328.9
7.5°	1244.1	1256.1	1252.1	1268.9	1278.1	1271.4	1293.7	1300.1	1290.9	1308.7	1325.8
10°	1226.7	1236.8	1232.5	1250.2	1258.2	1252.7	1274.7	1286.7	1278.1	1299.8	1320.3
12.5°	1209.5	1217.8	1212.9	1227.6	1235.2	1228.2	1255.1	1266.2	1260.0	1282.7	1309.0
15°	1187.5	1196.7	1189.9	1203.1	1208.9	1202.8	1224.8	1243.8	1236.2	1261.0	1290.0
17.5°	1170.7	1175.9	1166.7	1177.1	1180.5	1172.2	1194.5	1213.2	1207.7	1234.6	1268.3
20°	1152.0	1156.3	1143.4	1149.2	1148.9	1138.5	1159.0	1177.4	1173.7	1203.4	1241.7
22.5°	1131.2	1133.3	1118.3	1119.6	1118.9	1101.8	1120.2	1138.8	1137.3	1167.3	1210.1
25°	1109.1	1109.5	1090.2	1089.6	1082.8	1062.6	1078.8	1100.0	1095.4	1127.8	1172.8
27.5°	1087.4	1084.4	1061.1	1055.6	1044.9	1020.7	1035.1	1054.1	1051.3	1083.1	1133.0
30°	1064.2	1060.2	1031.7	1021.6	1006.0	978.2	990.1	1007.8	1009.4	1037.2	1089.6
32.5°	1042.1	1032.0	1000.5	985.8	966.2	933.8	940.2	958.3	960.7	988.9	1042.7
35°	1013.7	1006.9	968.1	943.0	923.7	888.2	894.9	907.5	911.1	938.7	993.5
37.5°	986.7	976.0	934.7	904.1	879.3	842.0	843.8	856.7	860.3	888.2	942.3
40°	958.9	943.6	899.2	863.4	834.9	795.7	793.6	807.1	809.8	837.1	886.0
42.5°	929.2	910.8	860.9	821.8	789.0	749.2	744.9	756.6	759.6	786.3	834.3
45°	899.2	877.2	821.8	778.9	743.1	702.4	698.1	707.0	711.6	736.7	782.9
47.5°	867.4	841.7	781.4	733.6	696.6	655.9	650.7	659.6	663.2	688.0	731.8
50°	834.0	802.8	739.7	687.1	650.4	610.3	602.6	613.0	616.4	639.7	682.5
52.5°	797.3	762.7	695.4	640.3	603.5	565.3	556.1	566.2	570.2	592.8	632.3
55°	758.4	721.1	650.7	597.1	557.3	520.0	512.3	516.3	524.9	546.3	583.0
57.5°	714.6	677.6	603.5	549.1	510.8	475.0	468.6	472.2	480.2	501.0	534.1
60°	668.1	628.9	555.5	501.0	464.0	430.0	424.2	427.6	436.1	455.1	485.7
62.5°	622.2	578.1	505.9	451.7	418.1	386.5	385.0	383.8	391.8	410.1	437.0
65°	566.5	524.3	454.2	402.8	372.2	343.7	337.6	340.3	348.0	364.8	393.0
67.5°	506.8	468.6	401.2	353.8	326.6	301.2	296.0	297.2	305.1	319.8	344.3
70°	443.5	409.8	347.1	304.5	281.6	257.7	254.3	254.6	262.3	275.1	296.6
72.5°	377.1	346.8	292.3	255.9	236.9	219.7	216.7	213.0	220.1	231.1	249.4
75°	309.4	282.8	237.8	208.1	193.1	178.7	176.0	172.3	179.3	188.8	203.2
77.5°	241.2	219.7	184.9	161.9	150.3	139.6	137.1	133.1	140.2	147.2	158.5
80°	174.5	158.8	138.0	113.9	109.9	102.8	100.4	96.1	102.8	107.4	116.0
82.5°	112.6	102.2	90.3	73.5	72.8	67.6	66.4	61.5	67.6	70.4	76.8
85°	56.9	52.0	49.0	37.3	38.6	35.2	34.9	29.7	34.6	35.8	39.5
87.5°	16.2	17.1	15.3	9.2	11.6	11.0	11.0	8.0	11.0	11.0	12.5
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: P837917

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-3LO-50-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1312.1	1312.1	1312.1	1312.1	1312.1	1312.1	1312.1	1312.1
2.5°	1313.3	1318.5	1319.7	1319.4	1322.8	1341.1	1335.0	1341.1
5°	1316.3	1328.0	1331.0	1335.3	1340.8	1361.6	1354.9	1362.3
7.5°	1318.2	1335.6	1342.4	1350.6	1359.5	1382.8	1377.3	1384.6
10°	1318.2	1340.8	1350.6	1364.4	1376.3	1403.3	1398.1	1406.6
12.5°	1312.7	1341.8	1355.5	1374.8	1390.1	1419.2	1417.0	1423.2
15°	1301.4	1337.2	1356.1	1380.9	1399.9	1432.3	1431.4	1438.8
17.5°	1286.0	1329.2	1352.2	1383.4	1407.2	1443.7	1445.8	1449.8
20°	1266.8	1314.2	1344.2	1382.5	1412.5	1452.5	1455.3	1460.8
22.5°	1241.4	1296.1	1332.3	1378.5	1413.1	1456.2	1461.1	1466.3
25°	1211.4	1274.4	1316.7	1370.8	1410.0	1455.9	1462.6	1467.2
27.5°	1177.1	1246.3	1296.8	1358.6	1401.4	1451.0	1459.3	1464.8
30°	1137.3	1216.3	1274.1	1342.7	1389.8	1441.8	1450.7	1456.2
32.5°	1096.3	1183.2	1247.2	1322.2	1373.0	1427.1	1434.8	1439.1
35°	1051.6	1143.1	1214.7	1295.8	1351.2	1403.6	1409.4	1414.0
37.5°	1002.9	1099.7	1177.7	1266.2	1320.6	1370.8	1376.0	1381.2
40°	952.8	1054.1	1136.1	1229.7	1284.2	1330.7	1336.2	1339.9
42.5°	902.3	1003.6	1091.7	1186.9	1241.1	1285.7	1289.1	1292.8
45°	851.1	951.2	1041.8	1139.4	1193.0	1234.9	1236.2	1239.2
47.5°	799.1	897.1	987.0	1085.3	1138.2	1176.5	1177.7	1180.2
50°	746.8	842.9	928.6	1026.8	1078.5	1118.9	1113.4	1115.9
52.5°	695.4	786.0	873.5	963.8	1014.9	1050.7	1052.2	1047.3
55°	644.9	730.3	810.7	897.7	946.3	974.2	973.3	975.1
57.5°	593.7	673.9	747.7	827.3	874.7	901.0	906.5	900.1
60°	541.7	617.0	683.1	755.0	801.0	823.0	829.4	823.3
62.5°	490.0	559.2	619.2	681.9	724.4	751.7	751.1	744.3
65°	438.3	501.0	554.6	607.8	644.9	672.1	670.9	664.8
67.5°	390.5	442.3	490.3	533.5	565.6	584.3	590.7	583.3
70°	337.9	382.6	424.8	459.4	486.0	502.9	509.0	502.5
72.5°	285.2	323.2	352.9	386.2	406.7	420.8	427.3	421.1
75°	233.2	264.4	288.6	314.6	329.0	340.9	348.3	342.2
77.5°	182.7	206.9	226.2	245.2	261.7	264.4	270.9	266.9
80°	134.7	152.1	166.2	178.7	190.7	191.9	197.1	194.7
82.5°	89.7	101.3	105.0	118.1	125.8	124.6	129.8	127.9
85°	47.4	54.5	60.9	64.9	69.2	65.2	69.8	67.9
87.5°	15.9	16.8	14.7	20.8	23.0	19.6	22.3	21.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)