

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: P838006

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-2HI-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: P838006
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-LD4-2HI-40-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

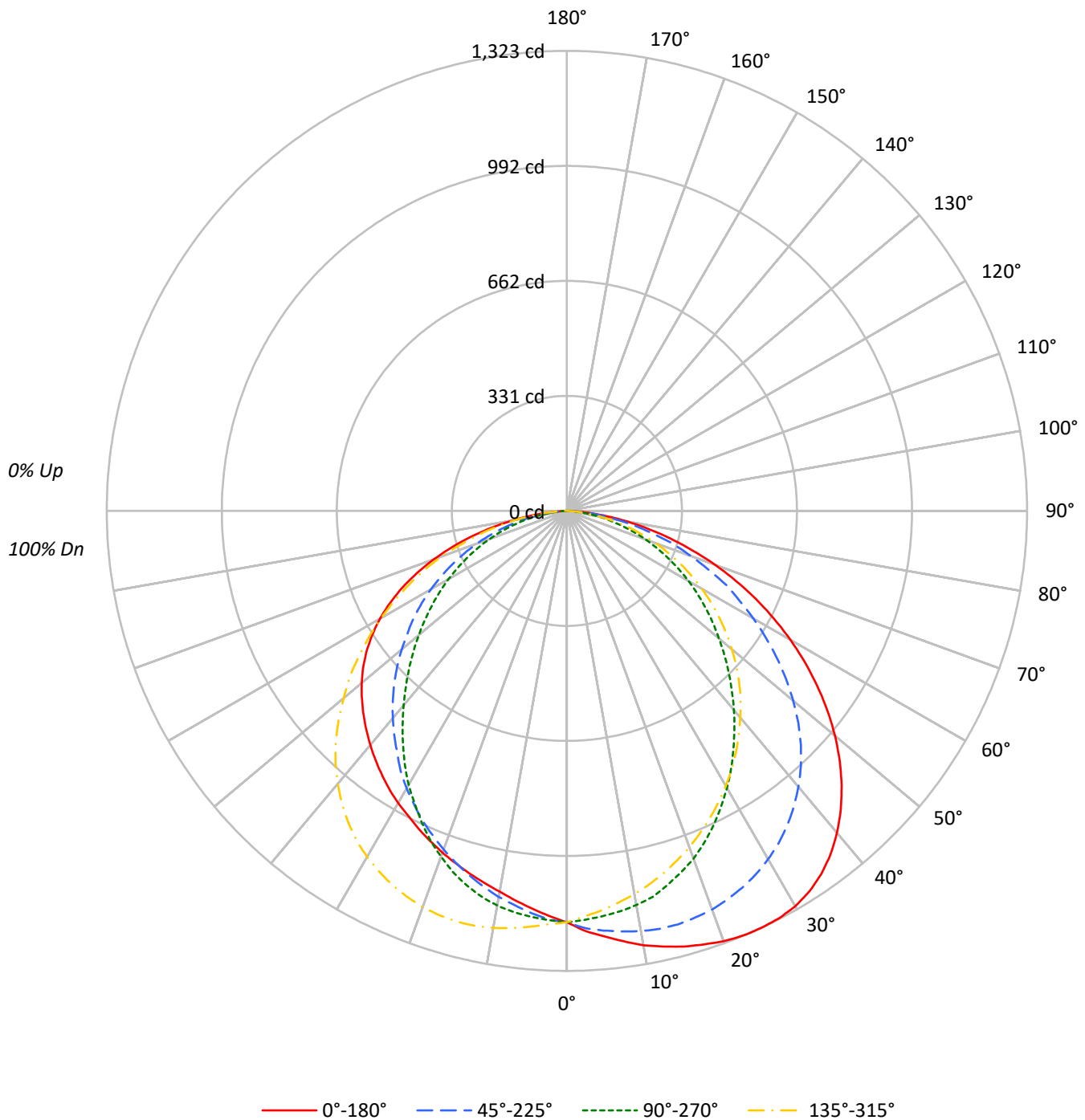
Lumens per Lamp: N/A
Luminaire Lumens: 3471.0 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	3184	3184	3184	3184
5°	3318	3161	3101	3166
10°	3466	3145	3038	3149
15°	3614	3105	3009	3105
20°	3772	3048	2995	3031
25°	3928	2963	2995	2933
30°	4080	2860	3015	2828
35°	4188	2742	3045	2699
40°	4244	2624	3088	2565
45°	4252	2505	3148	2442
50°	4212	2390	3224	2327
55°	4125	2284	3296	2221
60°	3996	2173	3341	2117
65°	3817	2045	3323	1998
70°	3565	1895	3205	1861
75°	3208	1690	2941	1681
80°	2720	1415	2472	1437
85°	1893	939	1568	963

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.3	3.2
10°-20°	325.3	9.4
20°-30°	498.5	14.4
30°-40°	606.1	17.5
40°-50°	630.1	18.2
50°-60°	569.2	16.4
60°-70°	432.7	12.5
70°-80°	241.2	7.0
80°-90°	55.5	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°	936.1	27.0
0°-40°	1542.2	44.4
0°-60°	2741.5	79.0
0°-90°	3471.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3471.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1183	1183	1183	1183	1183	
5°	1228	1170	1148	1172	1228	118
15°	1297	1114	1080	1115	1297	368
25°	1323	998	1009	988	1323	611
35°	1275	835	927	822	1275	796
45°	1117	658	827	642	1117	860
55°	879	487	703	473	879	785
65°	599	321	522	314	599	592
75°	308	162	283	162	308	328
85°	61	30	51	31	61	77
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°	1183.1	1183.1	1183.1	1183.1	1183.1	1183.1	1183.1	1183.1	1183.1	1183.1	1183.1
2.5°	1209.3	1191.6	1191.9	1207.4	1195.5	1201.3	1184.7	1191.1	1189.1	1190.5	1177.0
5°	1228.3	1209.3	1209.0	1222.3	1209.0	1211.5	1190.5	1194.7	1188.6	1184.7	1170.1
7.5°	1248.5	1229.4	1227.5	1239.1	1221.7	1219.8	1196.6	1196.6	1185.6	1175.9	1162.1
10°	1268.4	1248.8	1246.3	1255.1	1233.6	1227.2	1199.1	1194.7	1180.0	1165.7	1150.8
12.5°	1283.3	1263.4	1261.5	1267.0	1242.7	1231.1	1199.1	1190.5	1169.0	1148.9	1137.3
15°	1297.3	1276.9	1271.7	1274.4	1246.6	1231.1	1195.2	1182.0	1154.4	1127.9	1114.4
17.5°	1307.3	1287.7	1282.4	1282.2	1248.5	1226.4	1186.9	1168.7	1135.6	1103.6	1090.1
20°	1317.2	1297.6	1291.0	1286.0	1247.9	1220.1	1174.8	1150.2	1111.6	1075.7	1064.4
22.5°	1322.2	1302.0	1294.8	1287.4	1244.3	1208.5	1159.9	1128.7	1084.6	1041.8	1032.4
25°	1323.0	1302.3	1294.6	1283.8	1237.2	1194.7	1140.6	1102.8	1053.4	1005.9	997.9
27.5°	1320.8	1298.2	1290.4	1277.5	1226.4	1177.8	1117.7	1073.2	1020.3	967.8	959.3
30°	1313.1	1290.2	1282.7	1265.9	1211.2	1157.1	1092.6	1040.4	983.6	927.8	920.4
32.5°	1297.6	1275.3	1269.2	1252.3	1194.7	1133.1	1063.3	1005.1	943.0	889.7	878.7
35°	1275.0	1252.6	1248.8	1231.1	1171.5	1104.4	1031.3	966.4	899.9	845.6	834.8
37.5°	1245.4	1226.7	1220.9	1203.5	1144.2	1071.9	994.6	924.5	856.1	797.5	790.9
40°	1208.2	1190.5	1186.1	1170.7	1112.4	1035.7	954.9	881.2	810.8	756.4	747.0
42.5°	1165.7	1149.1	1146.7	1130.6	1073.2	995.7	911.8	836.2	763.6	711.2	701.8
45°	1117.4	1101.4	1100.8	1085.7	1030.5	951.3	866.5	790.7	717.5	663.2	658.2
47.5°	1064.1	1049.8	1049.8	1035.7	982.7	902.4	819.9	743.2	671.2	623.1	614.3
50°	1006.2	992.7	988.5	981.6	930.0	849.2	770.8	696.8	625.3	579.5	571.0
52.5°	944.4	932.8	935.5	922.8	872.9	793.7	721.1	644.7	579.3	537.6	529.0
55°	879.2	862.7	865.2	860.5	813.3	736.6	665.4	601.6	534.0	494.8	486.8
57.5°	811.6	790.1	798.9	796.2	749.8	678.1	614.3	552.8	489.0	452.9	445.1
60°	742.4	721.7	730.8	728.3	684.7	619.5	561.6	504.5	444.3	411.5	403.7
62.5°	671.2	652.1	660.4	658.5	618.4	559.7	509.2	456.7	399.3	369.8	362.6
65°	599.4	581.2	588.6	587.3	550.3	505.6	455.3	407.3	354.1	328.4	321.2
67.5°	526.0	509.2	516.1	516.1	482.1	439.3	401.3	357.4	309.6	287.6	280.9
70°	453.1	437.4	443.5	442.9	414.2	379.5	346.6	307.4	264.7	246.4	240.9
72.5°	379.7	365.9	371.5	370.9	346.9	324.5	292.0	258.0	220.8	206.1	201.2
75°	308.5	295.6	300.8	300.3	280.7	259.7	237.9	209.7	177.7	167.5	162.5
77.5°	240.6	227.4	231.8	231.8	217.5	202.3	184.9	163.1	140.5	129.4	125.8
80°	175.5	169.2	167.0	167.2	157.6	147.6	138.8	117.8	101.3	93.8	91.3
82.5°	115.4	110.1	107.9	108.5	102.9	96.9	91.3	76.7	65.7	61.3	59.9
85°	61.3	57.4	55.5	56.8	55.7	52.4	49.7	39.7	32.8	31.2	30.4
87.5°	19.3	16.8	15.5	20.4	17.4	15.5	14.9	11.9	9.1	9.1	8.8
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°	1183.1	1183.1	1183.1	1183.1	1183.1	1183.1	1183.1	1183.1	1183.1	1183.1	1183.1
2.5°	1181.4	1181.4	1170.7	1168.2	1167.1	1168.5	1157.7	1155.8	1171.2	1166.0	1154.1
5°	1172.0	1171.5	1156.3	1153.5	1153.5	1151.9	1139.8	1137.0	1152.4	1148.0	1135.1
7.5°	1160.4	1158.8	1140.9	1138.9	1136.2	1135.1	1121.5	1119.6	1132.9	1130.1	1117.9
10°	1146.4	1144.7	1123.5	1122.1	1119.1	1116.8	1104.2	1102.8	1116.3	1111.9	1102.2
12.5°	1127.9	1124.8	1103.0	1101.7	1099.2	1098.4	1085.9	1085.4	1100.3	1095.9	1085.7
15°	1103.6	1101.1	1076.8	1077.4	1077.7	1077.7	1067.7	1067.2	1081.8	1079.9	1068.8
17.5°	1076.8	1073.5	1050.3	1052.0	1053.9	1056.1	1048.4	1049.8	1065.2	1062.8	1052.8
20°	1046.5	1043.2	1020.5	1025.2	1029.4	1033.8	1028.8	1032.7	1047.0	1045.9	1038.5
22.5°	1012.5	1009.2	988.2	995.4	1002.3	1010.6	1008.4	1012.8	1028.0	1027.7	1021.1
25°	971.1	972.0	953.5	962.3	973.9	985.5	986.3	993.5	1010.3	1008.7	1002.6
27.5°	932.5	933.6	914.0	928.9	944.4	959.3	962.9	972.8	989.9	988.5	983.3
30°	891.9	893.3	874.3	894.7	913.5	931.7	939.4	952.9	970.3	970.3	964.8
32.5°	849.7	852.2	832.3	859.6	881.4	902.7	916.2	930.3	950.2	949.6	944.9
35°	806.4	809.1	790.9	825.7	847.5	873.4	890.3	909.0	926.7	927.0	923.4
37.5°	762.2	765.5	749.0	787.1	811.9	842.5	864.1	882.8	902.4	903.5	900.2
40°	718.3	721.9	707.6	744.3	775.7	810.0	834.8	856.9	878.4	879.0	876.8
42.5°	674.5	678.3	667.6	703.4	739.0	775.7	805.0	830.1	852.2	853.6	851.1
45°	631.7	635.0	627.3	666.5	700.7	740.7	774.4	802.8	825.1	827.1	826.3
47.5°	589.2	592.2	585.3	621.2	660.7	703.2	742.1	773.5	797.3	799.5	798.9
50°	547.5	550.0	542.6	580.1	619.3	664.5	705.1	741.5	768.0	770.2	770.0
52.5°	506.1	508.6	502.3	541.7	577.3	625.1	669.2	708.7	734.9	738.2	738.8
55°	466.1	467.2	462.2	500.1	534.6	584.5	635.3	673.6	699.9	702.6	704.3
57.5°	426.1	426.4	422.2	458.4	491.5	542.6	595.8	636.1	660.9	663.7	666.2
60°	386.4	386.1	381.4	416.4	448.2	498.7	554.1	594.2	618.2	620.7	624.0
62.5°	346.9	346.1	341.9	374.2	404.0	454.0	509.7	548.3	571.3	572.9	577.3
65°	307.7	306.9	303.0	332.8	359.9	407.6	462.2	499.0	519.6	521.9	521.0
67.5°	269.1	267.4	264.4	291.1	315.7	359.9	412.3	447.3	464.5	466.4	471.6
70°	230.4	228.5	221.6	250.0	271.6	311.0	359.9	391.0	405.4	407.3	406.5
72.5°	192.4	190.4	183.0	209.2	227.4	261.9	305.5	331.4	343.9	345.5	345.5
75°	155.4	154.3	149.6	169.4	184.6	212.8	249.8	271.3	280.9	282.9	282.3
77.5°	119.8	118.9	114.3	131.4	143.2	164.2	194.0	210.8	218.0	220.2	224.9
80°	85.8	85.6	78.1	94.9	100.2	117.8	139.6	152.6	156.5	159.5	162.8
82.5°	54.9	55.2	47.7	62.1	64.3	75.6	89.1	97.1	99.9	102.4	104.9
85°	26.8	27.9	23.7	32.8	33.1	38.9	44.7	47.7	48.8	50.8	53.0
87.5°	6.9	8.0	4.4	9.4	8.3	10.8	12.4	13.2	13.0	14.4	15.2
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°	1183.1	1183.1	1183.1	1183.1	1183.1	1183.1	1183.1	1183.1	1183.1	1183.1	1183.1
2.5°	1158.0	1166.8	1162.4	1176.7	1182.2	1173.4	1188.9	1189.1	1178.1	1191.1	1198.3
5°	1140.0	1149.1	1146.4	1161.3	1168.2	1160.4	1179.2	1182.8	1172.0	1186.7	1198.3
7.5°	1121.8	1132.6	1129.0	1144.2	1152.4	1146.4	1166.5	1172.3	1164.0	1180.0	1195.5
10°	1106.1	1115.2	1111.3	1127.3	1134.5	1129.5	1149.4	1160.2	1152.4	1172.0	1190.5
12.5°	1090.6	1098.1	1093.7	1106.9	1113.8	1107.5	1131.7	1141.7	1136.2	1156.6	1180.3
15°	1070.8	1079.0	1073.0	1084.8	1090.1	1084.6	1104.4	1121.5	1114.6	1137.0	1163.2
17.5°	1055.6	1060.3	1052.0	1061.4	1064.4	1057.0	1077.1	1093.9	1089.0	1113.3	1143.6
20°	1038.7	1042.6	1031.0	1036.3	1036.0	1026.6	1045.1	1061.7	1058.3	1085.1	1119.6
22.5°	1020.0	1021.9	1008.4	1009.5	1008.9	993.5	1010.0	1026.9	1025.5	1052.5	1091.2
25°	1000.1	1000.4	983.0	982.4	976.4	958.2	972.8	991.8	987.7	1016.9	1057.5
27.5°	980.5	977.8	956.8	951.8	942.2	920.4	933.3	950.4	948.0	976.7	1021.6
30°	959.5	956.0	930.3	921.2	907.1	882.0	892.8	908.8	910.1	935.3	982.4
32.5°	939.7	930.6	902.1	888.9	871.2	842.0	847.8	864.1	866.3	891.7	940.2
35°	914.0	907.9	872.9	850.3	832.9	800.9	806.9	818.2	821.6	846.4	895.8
37.5°	889.7	880.1	842.8	815.2	792.9	759.2	760.8	772.4	775.7	800.9	849.7
40°	864.6	850.8	810.8	778.5	752.8	717.5	715.6	727.7	730.2	754.8	798.9
42.5°	837.8	821.3	776.3	741.0	711.4	675.6	671.7	682.2	685.0	709.0	752.3
45°	810.8	790.9	741.0	702.3	670.1	633.3	629.5	637.5	641.6	664.3	705.9
47.5°	782.1	758.9	704.5	661.5	628.1	591.4	586.7	594.7	598.0	620.4	659.8
50°	752.0	723.9	667.0	619.5	586.4	550.3	543.4	552.8	555.8	576.8	615.4
52.5°	718.9	687.7	627.0	577.3	544.2	509.7	501.4	510.5	514.1	534.6	570.2
55°	683.9	650.2	586.7	538.4	502.5	468.9	462.0	465.6	473.3	492.6	525.7
57.5°	644.4	611.0	544.2	495.1	460.6	428.3	422.5	425.8	433.0	451.8	481.6
60°	602.4	567.1	500.9	451.8	418.4	387.7	382.5	385.5	393.3	410.4	438.0
62.5°	561.0	521.3	456.2	407.3	377.0	348.5	347.2	346.1	353.2	369.8	394.1
65°	510.8	472.7	409.5	363.2	335.6	309.9	304.4	306.9	313.8	329.0	354.3
67.5°	457.0	422.5	361.8	319.0	294.5	271.6	266.9	268.0	275.1	288.4	310.5
70°	399.9	369.5	312.9	274.6	253.9	232.4	229.3	229.6	236.5	248.1	267.4
72.5°	340.0	312.7	263.6	230.7	213.6	198.1	195.4	192.1	198.4	208.4	224.9
75°	279.0	255.0	214.4	187.7	174.1	161.2	158.7	155.4	161.7	170.3	183.2
77.5°	217.5	198.1	166.7	146.0	135.5	125.8	123.6	120.0	126.4	132.7	143.0
80°	157.3	143.2	124.5	102.7	99.1	92.7	90.5	86.7	92.7	96.9	104.6
82.5°	101.6	92.2	81.4	66.2	65.7	61.0	59.9	55.5	61.0	63.5	69.3
85°	51.3	46.9	44.2	33.7	34.8	31.7	31.5	26.8	31.2	32.3	35.6
87.5°	14.6	15.5	13.8	8.3	10.5	9.9	9.9	7.2	9.9	9.9	11.3
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: P838006

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-2HI-40-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1183.1	1183.1	1183.1	1183.1	1183.1	1183.1	1183.1	1183.1
2.5°	1184.2	1188.9	1190.0	1189.7	1192.7	1209.3	1203.8	1209.3
5°	1186.9	1197.4	1200.2	1204.1	1209.0	1227.8	1221.7	1228.3
7.5°	1188.6	1204.3	1210.4	1217.8	1225.9	1246.8	1241.9	1248.5
10°	1188.6	1209.0	1217.8	1230.3	1241.0	1265.3	1260.6	1268.4
12.5°	1183.6	1209.8	1222.3	1239.7	1253.4	1279.7	1277.7	1283.3
15°	1173.4	1205.7	1222.8	1245.2	1262.3	1291.5	1290.7	1297.3
17.5°	1159.6	1198.5	1219.2	1247.4	1268.9	1301.7	1303.7	1307.3
20°	1142.2	1185.0	1212.1	1246.6	1273.6	1309.7	1312.2	1317.2
22.5°	1119.3	1168.7	1201.3	1243.0	1274.1	1313.1	1317.5	1322.2
25°	1092.3	1149.1	1187.2	1236.1	1271.4	1312.8	1318.9	1323.0
27.5°	1061.4	1123.7	1169.3	1225.0	1263.7	1308.4	1315.8	1320.8
30°	1025.5	1096.7	1148.9	1210.7	1253.2	1300.1	1308.1	1313.1
32.5°	988.5	1066.9	1124.6	1192.2	1238.0	1286.8	1293.7	1297.6
35°	948.2	1030.7	1095.3	1168.5	1218.4	1265.6	1270.8	1275.0
37.5°	904.3	991.6	1061.9	1141.7	1190.8	1236.1	1240.8	1245.4
40°	859.1	950.4	1024.4	1108.8	1158.0	1199.9	1204.9	1208.2
42.5°	813.6	904.9	984.4	1070.2	1119.1	1159.3	1162.4	1165.7
45°	767.5	857.7	939.4	1027.4	1075.7	1113.5	1114.6	1117.4
47.5°	720.6	808.9	890.0	978.6	1026.3	1060.8	1061.9	1064.1
50°	673.4	760.0	837.3	925.9	972.5	1008.9	1004.0	1006.2
52.5°	627.0	708.7	787.6	869.0	915.1	947.4	948.8	944.4
55°	581.5	658.5	731.0	809.4	853.3	878.4	877.6	879.2
57.5°	535.4	607.7	674.2	745.9	788.7	812.5	817.4	811.6
60°	488.5	556.4	616.0	680.8	722.2	742.1	747.9	742.4
62.5°	441.8	504.2	558.3	614.9	653.2	677.8	677.2	671.2
65°	395.2	451.8	500.1	548.1	581.5	606.0	604.9	599.4
67.5°	352.1	398.8	442.1	481.0	510.0	526.8	532.6	526.0
70°	304.7	345.0	383.0	414.2	438.2	453.4	458.9	453.1
72.5°	257.2	291.4	318.2	348.3	366.8	379.5	385.3	379.7
75°	210.3	238.4	260.2	283.7	296.7	307.4	314.1	308.5
77.5°	164.8	186.6	203.9	221.1	236.0	238.4	244.2	240.6
80°	121.4	137.2	149.9	161.2	171.9	173.0	177.7	175.5
82.5°	80.9	91.3	94.7	106.5	113.4	112.3	117.0	115.4
85°	42.8	49.1	54.9	58.5	62.4	58.8	62.9	61.3
87.5°	14.4	15.2	13.2	18.8	20.7	17.7	20.1	19.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)