

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: P837732

Luminaire Tested: **ORLG-12-4-INS-ASY2R-LD4-1STD-30-120-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: P837732
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-30-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

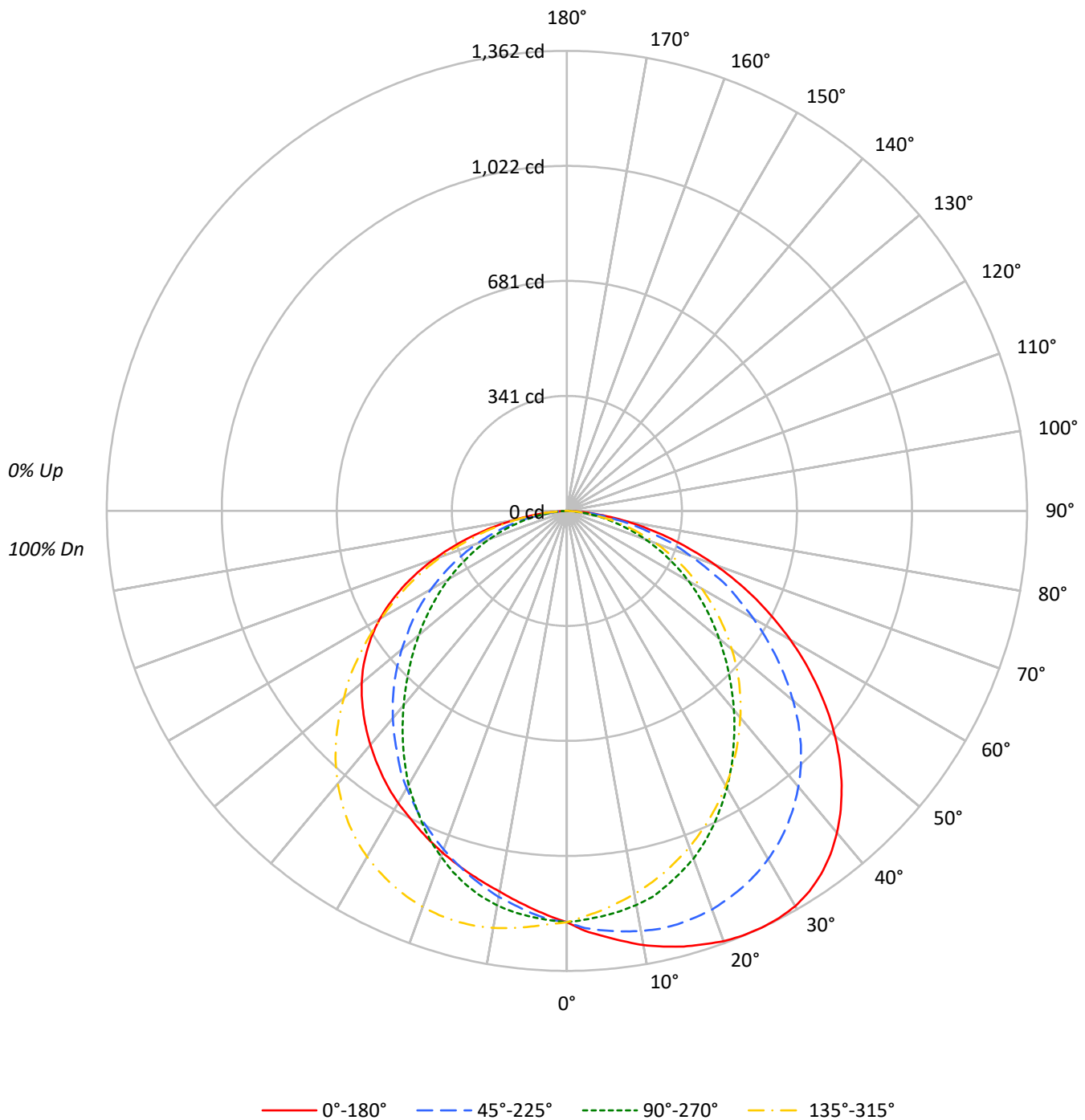
Lumens per Lamp: N/A
Luminaire Lumens: 3572.8 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	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°	3277	3277	3277	3277
5°	3415	3253	3192	3259
10°	3567	3237	3127	3241
15°	3720	3195	3097	3196
20°	3883	3137	3083	3120
25°	4043	3050	3083	3019
30°	4200	2944	3104	2911
35°	4311	2823	3135	2778
40°	4369	2701	3178	2640
45°	4377	2578	3240	2513
50°	4336	2460	3319	2395
55°	4246	2351	3393	2286
60°	4112	2237	3439	2179
65°	3929	2105	3421	2057
70°	3670	1951	3299	1915
75°	3302	1739	3028	1731
80°	2800	1457	2545	1478
85°	1948	963	1615	991

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.6	3.2
10°-20°	334.8	9.4
20°-30°	513.1	14.4
30°-40°	623.9	17.5
40°-50°	648.6	18.2
50°-60°	585.9	16.4
60°-70°	445.4	12.5
70°-80°	248.3	7.0
80°-90°	57.2	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°	963.5	27.0
0°-40°	1587.4	44.4
0°-60°	2821.9	79.0
0°-90°	3572.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3572.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1218	1218	1218	1218	1218	
5°	1264	1204	1182	1206	1264	122
15°	1335	1147	1112	1147	1335	379
25°	1362	1027	1038	1017	1362	629
35°	1312	859	954	846	1312	820
45°	1150	678	851	660	1150	886
55°	905	501	723	487	905	808
65°	617	331	537	323	617	610
75°	318	167	291	166	318	337
85°	63	31	52	32	63	79
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°	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8
2.5°	1244.8	1226.6	1226.9	1242.8	1230.6	1236.5	1219.5	1226.0	1224.0	1225.4	1211.5
5°	1264.4	1244.8	1244.5	1258.1	1244.5	1247.0	1225.4	1229.7	1223.5	1219.5	1204.4
7.5°	1285.1	1265.5	1263.5	1275.4	1257.5	1255.6	1231.7	1231.7	1220.3	1210.4	1196.2
10°	1305.5	1285.4	1282.8	1291.9	1269.8	1263.2	1234.2	1229.7	1214.6	1199.9	1184.5
12.5°	1320.9	1300.4	1298.4	1304.1	1279.1	1267.2	1234.2	1225.4	1203.3	1182.6	1170.6
15°	1335.4	1314.4	1309.0	1311.8	1283.1	1267.2	1230.3	1216.6	1188.2	1161.0	1147.0
17.5°	1345.6	1325.4	1320.0	1319.8	1285.1	1262.4	1221.8	1203.0	1168.9	1136.0	1122.0
20°	1355.8	1335.7	1328.8	1323.7	1284.5	1255.8	1209.3	1184.0	1144.2	1107.3	1095.6
22.5°	1360.9	1340.2	1332.8	1325.1	1280.8	1243.9	1193.9	1161.8	1116.4	1072.3	1062.7
25°	1361.8	1340.5	1332.5	1321.5	1273.5	1229.7	1174.0	1135.1	1084.3	1035.4	1027.2
27.5°	1359.5	1336.2	1328.3	1314.9	1262.4	1212.4	1150.5	1104.7	1050.2	996.2	987.4
30°	1351.6	1328.0	1320.3	1303.0	1246.7	1191.1	1124.6	1070.9	1012.4	955.0	947.3
32.5°	1335.7	1312.7	1306.4	1289.1	1229.7	1166.4	1094.5	1034.6	970.6	915.8	904.5
35°	1312.4	1289.4	1285.4	1267.2	1205.8	1136.8	1061.5	994.8	926.3	870.4	859.3
37.5°	1282.0	1262.7	1256.7	1238.8	1177.7	1103.3	1023.8	951.6	881.2	820.9	814.1
40°	1243.6	1225.4	1220.9	1205.0	1145.1	1066.1	982.9	907.0	834.6	778.6	769.0
42.5°	1199.9	1182.8	1180.3	1163.8	1104.7	1024.9	938.5	860.7	786.0	732.0	722.4
45°	1150.2	1133.7	1133.1	1117.5	1060.7	979.2	892.0	813.8	738.6	682.6	677.5
47.5°	1095.3	1080.6	1080.6	1066.1	1011.5	928.9	843.9	765.0	690.8	641.4	632.3
50°	1035.7	1021.8	1017.5	1010.4	957.3	874.1	793.4	717.3	643.7	596.5	587.7
52.5°	972.1	960.1	963.0	949.9	898.5	817.0	742.3	663.6	596.2	553.4	544.5
55°	905.0	888.0	890.5	885.7	837.1	758.2	684.9	619.3	549.7	509.3	501.1
57.5°	835.4	813.3	822.4	819.5	771.8	697.9	632.3	569.0	503.4	466.1	458.2
60°	764.1	742.8	752.2	749.6	704.8	637.7	578.1	519.3	457.3	423.5	415.6
62.5°	690.8	671.2	679.8	677.8	636.6	576.1	524.1	470.1	411.0	380.6	373.3
65°	617.0	598.2	605.9	604.5	566.4	520.4	468.7	419.3	364.5	338.0	330.6
67.5°	541.4	524.1	531.2	531.2	496.3	452.2	413.0	367.9	318.7	296.0	289.2
70°	466.4	450.2	456.5	455.9	426.4	390.6	356.8	316.4	272.4	253.7	248.0
72.5°	390.9	376.7	382.3	381.8	357.1	334.1	300.5	265.6	227.2	212.2	207.1
75°	317.6	304.2	309.6	309.1	288.9	267.3	244.9	215.9	182.9	172.4	167.3
77.5°	247.7	234.1	238.6	238.6	223.8	208.2	190.3	167.9	144.6	133.2	129.5
80°	180.7	174.1	171.9	172.1	162.2	152.0	142.9	121.3	104.3	96.6	94.0
82.5°	118.7	113.3	111.1	111.6	106.0	99.7	94.0	79.0	67.6	63.1	61.6
85°	63.1	59.1	57.1	58.5	57.4	54.0	51.1	40.9	33.8	32.1	31.2
87.5°	19.9	17.3	15.9	21.0	17.9	15.9	15.3	12.2	9.4	9.4	9.1
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°	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8
2.5°	1216.1	1216.1	1205.0	1202.4	1201.3	1202.7	1191.6	1189.7	1205.6	1200.2	1187.9
5°	1206.4	1205.8	1190.2	1187.4	1187.4	1185.7	1173.2	1170.3	1186.2	1181.7	1168.3
7.5°	1194.5	1192.8	1174.3	1172.3	1169.5	1168.3	1154.4	1152.4	1166.1	1163.2	1150.7
10°	1180.0	1178.3	1156.4	1155.0	1151.9	1149.6	1136.5	1135.1	1149.0	1144.5	1134.5
12.5°	1161.0	1157.8	1135.4	1134.0	1131.4	1130.6	1117.8	1117.2	1132.6	1128.0	1117.5
15°	1136.0	1133.4	1108.4	1109.0	1109.3	1109.3	1099.0	1098.5	1113.5	1111.5	1100.2
17.5°	1108.4	1105.0	1081.1	1082.8	1084.8	1087.1	1079.2	1080.6	1096.5	1093.9	1083.7
20°	1077.2	1073.8	1050.5	1055.3	1059.6	1064.1	1059.0	1063.0	1077.7	1076.6	1068.9
22.5°	1042.2	1038.8	1017.2	1024.6	1031.7	1040.2	1038.0	1042.5	1058.1	1057.8	1051.0
25°	999.6	1000.5	981.4	990.5	1002.5	1014.4	1015.2	1022.6	1040.0	1038.2	1032.0
27.5°	959.8	961.0	940.8	956.2	972.1	987.4	991.1	1001.3	1018.9	1017.5	1012.1
30°	918.1	919.5	899.9	920.9	940.2	959.0	966.9	980.9	998.8	998.8	993.1
32.5°	874.6	877.2	856.7	884.9	907.3	929.2	943.1	957.6	978.0	977.5	972.6
35°	830.0	832.9	814.1	849.9	872.4	899.1	916.4	935.7	953.9	954.2	950.5
37.5°	784.6	788.0	770.9	810.1	835.7	867.2	889.4	908.7	928.9	930.0	926.6
40°	739.4	743.1	728.3	766.1	798.5	833.7	859.3	882.0	904.2	904.7	902.5
42.5°	694.2	698.2	687.1	724.1	760.7	798.5	828.6	854.5	877.2	878.6	876.0
45°	650.2	653.6	645.7	686.0	721.2	762.4	797.1	826.3	849.3	851.3	850.5
47.5°	606.5	609.6	602.5	639.4	680.0	723.8	763.8	796.2	820.7	822.9	822.4
50°	563.6	566.1	558.5	597.1	637.4	684.0	725.8	763.3	790.5	792.8	792.5
52.5°	521.0	523.5	517.0	557.6	594.3	643.4	688.9	729.5	756.5	759.9	760.4
55°	479.8	480.9	475.8	514.7	550.2	601.6	653.9	693.4	720.4	723.2	724.9
57.5°	438.6	438.9	434.6	471.8	505.9	558.5	613.3	654.8	680.3	683.2	685.7
60°	397.7	397.4	392.6	428.6	461.3	513.3	570.4	611.6	636.3	638.9	642.3
62.5°	357.1	356.2	352.0	385.2	415.9	467.3	524.7	564.4	588.0	589.7	594.3
65°	316.7	315.9	311.9	342.6	370.4	419.6	475.8	513.6	534.9	537.2	536.3
67.5°	277.0	275.3	272.1	299.7	325.0	370.4	424.4	460.5	478.1	480.1	485.5
70°	237.2	235.2	228.1	257.4	279.5	320.1	370.4	402.5	417.3	419.3	418.4
72.5°	198.0	196.0	188.3	215.3	234.1	269.6	314.5	341.2	353.9	355.6	355.6
75°	159.9	158.8	154.0	174.4	190.0	219.0	257.1	279.2	289.2	291.2	290.6
77.5°	123.3	122.4	117.6	135.2	147.4	169.0	199.7	217.0	224.4	226.7	231.5
80°	88.3	88.1	80.4	97.7	103.1	121.3	143.7	157.1	161.1	164.2	167.6
82.5°	56.5	56.8	49.1	63.9	66.2	77.8	91.8	100.0	102.8	105.4	107.9
85°	27.6	28.7	24.4	33.8	34.1	40.1	46.0	49.1	50.3	52.3	54.5
87.5°	7.1	8.2	4.5	9.7	8.5	11.1	12.8	13.6	13.4	14.8	15.6
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8
2.5°	1191.9	1201.0	1196.5	1211.2	1216.9	1207.8	1223.7	1224.0	1212.7	1226.0	1233.4
5°	1173.5	1182.8	1180.0	1195.3	1202.4	1194.5	1213.8	1217.5	1206.4	1221.5	1233.4
7.5°	1154.7	1165.8	1162.1	1177.7	1186.2	1180.0	1200.7	1206.7	1198.2	1214.6	1230.6
10°	1138.5	1147.9	1143.9	1160.4	1167.8	1162.7	1183.1	1194.2	1186.2	1206.4	1225.4
12.5°	1122.6	1130.3	1125.7	1139.4	1146.5	1139.9	1164.9	1175.2	1169.5	1190.5	1214.9
15°	1102.2	1110.7	1104.4	1116.6	1122.0	1116.4	1136.8	1154.4	1147.3	1170.3	1197.3
17.5°	1086.5	1091.4	1082.8	1092.5	1095.6	1088.0	1108.7	1126.0	1120.9	1145.9	1177.2
20°	1069.2	1073.2	1061.3	1066.7	1066.4	1056.7	1075.7	1092.8	1089.4	1116.9	1152.4
22.5°	1049.9	1051.9	1038.0	1039.1	1038.5	1022.6	1039.7	1057.0	1055.6	1083.4	1123.2
25°	1029.4	1029.7	1011.8	1011.3	1005.0	986.3	1001.3	1020.9	1016.7	1046.8	1088.5
27.5°	1009.3	1006.4	984.8	979.7	969.8	947.3	960.7	978.3	975.8	1005.3	1051.6
30°	987.7	984.0	957.6	948.2	933.7	907.9	918.9	935.4	936.8	962.7	1011.3
32.5°	967.2	957.9	928.6	915.0	896.8	866.7	872.6	889.4	891.7	917.8	967.8
35°	940.8	934.6	898.5	875.2	857.3	824.3	830.6	842.2	845.7	871.2	922.1
37.5°	915.8	905.9	867.5	839.1	816.1	781.5	783.2	795.1	798.5	824.3	874.6
40°	890.0	875.8	834.6	801.3	774.9	738.6	736.6	749.1	751.6	776.9	822.4
42.5°	862.4	845.4	799.1	762.7	732.3	695.4	691.4	702.2	705.0	729.8	774.4
45°	834.6	814.1	762.7	722.9	689.7	651.9	647.9	656.2	660.4	683.7	726.6
47.5°	805.0	781.2	725.2	680.9	646.5	608.7	603.9	612.2	615.6	638.6	679.2
50°	774.1	745.1	686.6	637.7	603.6	566.4	559.3	569.0	572.1	593.7	633.5
52.5°	740.0	707.9	645.4	594.3	560.2	524.7	516.1	525.5	529.2	550.2	586.9
55°	703.9	669.3	603.9	554.2	517.3	482.6	475.5	479.2	487.2	507.1	541.1
57.5°	663.3	628.9	560.2	509.6	474.1	440.9	434.9	438.3	445.7	465.0	495.7
60°	620.1	583.7	515.6	465.0	430.6	399.1	393.7	396.8	404.8	422.4	450.8
62.5°	577.5	536.6	469.6	419.3	388.0	358.8	357.4	356.2	363.6	380.6	405.6
65°	525.8	486.6	421.5	373.8	345.4	319.0	313.3	315.9	323.0	338.6	364.7
67.5°	470.4	434.9	372.4	328.4	303.1	279.5	274.7	275.8	283.2	296.8	319.6
70°	411.6	380.4	322.1	282.6	261.3	239.2	236.1	236.3	243.4	255.4	275.3
72.5°	350.0	321.8	271.3	237.5	219.9	204.0	201.1	197.7	204.2	214.5	231.5
75°	287.2	262.5	220.7	193.2	179.2	165.9	163.3	159.9	166.5	175.3	188.6
77.5°	223.8	204.0	171.6	150.3	139.5	129.5	127.3	123.6	130.1	136.6	147.1
80°	161.9	147.4	128.1	105.7	102.0	95.4	93.2	89.2	95.4	99.7	107.7
82.5°	104.5	94.9	83.8	68.2	67.6	62.8	61.6	57.1	62.8	65.3	71.3
85°	52.8	48.3	45.4	34.7	35.8	32.7	32.4	27.6	32.1	33.2	36.6
87.5°	15.1	15.9	14.2	8.5	10.8	10.2	10.2	7.4	10.2	10.2	11.6
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: P837732

CATALOG NUMBER: ORLG-12-4-INS-ASY2R-LD4-1STD-30-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8
2.5°	1218.9	1223.7	1224.9	1224.6	1227.7	1244.8	1239.1	1244.8
5°	1221.8	1232.5	1235.4	1239.4	1244.5	1263.8	1257.5	1264.4
7.5°	1223.5	1239.6	1245.9	1253.6	1261.8	1283.4	1278.3	1285.1
10°	1223.5	1244.5	1253.6	1266.3	1277.4	1302.4	1297.6	1305.5
12.5°	1218.3	1245.3	1258.1	1276.0	1290.2	1317.2	1315.2	1320.9
15°	1207.8	1241.1	1258.7	1281.7	1299.3	1329.4	1328.6	1335.4
17.5°	1193.6	1233.7	1255.0	1284.0	1306.1	1339.9	1341.9	1345.6
20°	1175.7	1219.8	1247.6	1283.1	1310.9	1348.2	1350.7	1355.8
22.5°	1152.2	1203.0	1236.5	1279.4	1311.5	1351.6	1356.1	1360.9
25°	1124.3	1182.8	1222.0	1272.3	1308.7	1351.3	1357.5	1361.8
27.5°	1092.5	1156.7	1203.6	1261.0	1300.7	1346.7	1354.4	1359.5
30°	1055.6	1128.9	1182.6	1246.2	1289.9	1338.2	1346.5	1351.6
32.5°	1017.5	1098.2	1157.6	1227.1	1274.3	1324.6	1331.7	1335.7
35°	976.0	1061.0	1127.4	1202.7	1254.1	1302.7	1308.1	1312.4
37.5°	930.9	1020.6	1093.1	1175.2	1225.7	1272.3	1277.1	1282.0
40°	884.3	978.3	1054.4	1141.4	1191.9	1235.1	1240.2	1243.6
42.5°	837.4	931.4	1013.2	1101.6	1151.9	1193.3	1196.5	1199.9
45°	790.0	882.9	966.9	1057.6	1107.3	1146.2	1147.3	1150.2
47.5°	741.7	832.6	916.1	1007.3	1056.4	1091.9	1093.1	1095.3
50°	693.1	782.3	861.8	953.0	1001.0	1038.5	1033.4	1035.7
52.5°	645.4	729.5	810.7	894.5	941.9	975.2	976.6	972.1
55°	598.5	677.8	752.5	833.2	878.3	904.2	903.3	905.0
57.5°	551.1	625.5	694.0	767.8	811.8	836.3	841.4	835.4
60°	502.8	572.7	634.0	700.8	743.4	763.8	769.8	764.1
62.5°	454.8	519.0	574.7	632.9	672.4	697.7	697.1	690.8
65°	406.8	465.0	514.7	564.1	598.5	623.8	622.7	617.0
67.5°	362.5	410.5	455.1	495.1	524.9	542.3	548.2	541.4
70°	313.6	355.1	394.3	426.4	451.1	466.7	472.4	466.4
72.5°	264.7	300.0	327.5	358.5	377.5	390.6	396.6	390.9
75°	216.5	245.4	267.9	292.0	305.4	316.4	323.3	317.6
77.5°	169.6	192.0	209.9	227.5	242.9	245.4	251.4	247.7
80°	125.0	141.2	154.2	165.9	177.0	178.1	182.9	180.7
82.5°	83.2	94.0	97.4	109.6	116.7	115.6	120.4	118.7
85°	44.0	50.6	56.5	60.2	64.2	60.5	64.8	63.1
87.5°	14.8	15.6	13.6	19.3	21.3	18.2	20.7	19.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)