

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: P838165

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-1HI-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: P838165
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/21/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-4-INS-ASY2R-LD4-1HI-27-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

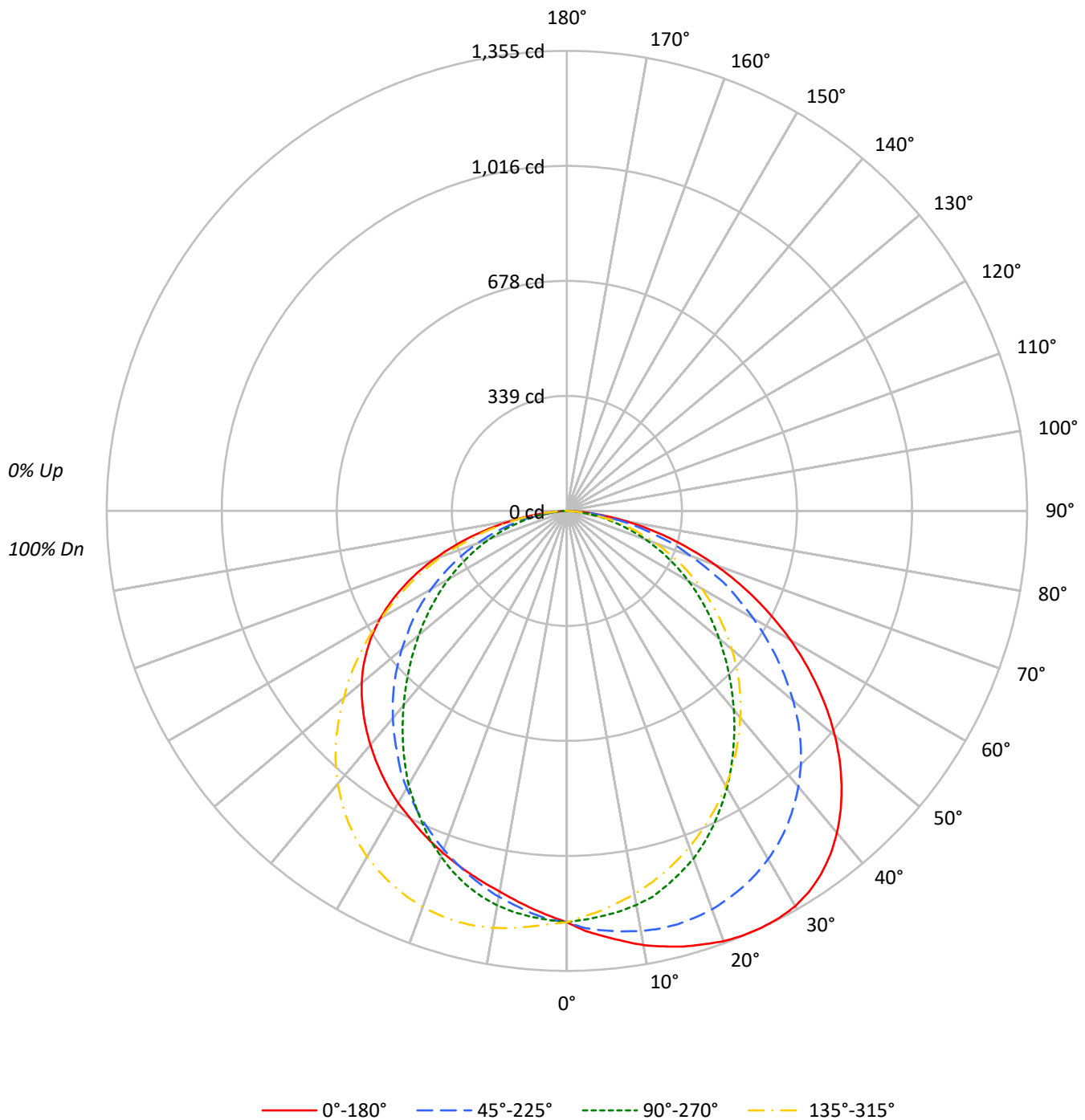
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3554.0 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' 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°	1630	1630	1630	1630
5°	1699	1618	1588	1621
10°	1774	1610	1555	1612
15°	1850	1589	1540	1590
20°	1931	1561	1533	1552
25°	2011	1517	1533	1501
30°	2089	1464	1544	1448
35°	2144	1404	1559	1382
40°	2173	1343	1581	1313
45°	2177	1282	1611	1250
50°	2157	1224	1651	1191
55°	2112	1169	1688	1137
60°	2045	1112	1710	1084
65°	1954	1047	1701	1023
70°	1825	971	1641	953
75°	1642	865	1506	861
80°	1392	724	1265	735
85°	968	480	803	492

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.0	3.2
10°-20°	333.1	9.4
20°-30°	510.4	14.4
30°-40°	620.6	17.5
40°-50°	645.2	18.2
50°-60°	582.8	16.4
60°-70°	443.1	12.5
70°-80°	247.0	7.0
80°-90°	56.9	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°	958.5	27.0
0°-40°	1579.1	44.4
0°-60°	2807.1	79.0
0°-90°	3554.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3554.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1211	1211	1211	1211	1211	
5°	1258	1198	1176	1200	1258	121
15°	1328	1141	1106	1141	1328	377
25°	1355	1022	1033	1011	1355	626
35°	1306	855	949	841	1306	815
45°	1144	674	847	657	1144	881
55°	900	498	719	485	900	804
65°	614	329	534	321	614	606
75°	316	166	290	166	316	336
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°	1211.4	1211.4	1211.4	1211.4	1211.4	1211.4	1211.4	1211.4	1211.4	1211.4	1211.4
2.5°	1238.2	1220.1	1220.4	1236.3	1224.1	1230.0	1213.1	1219.6	1217.6	1219.0	1205.2
5°	1257.7	1238.2	1237.9	1251.5	1237.9	1240.5	1219.0	1223.3	1217.0	1213.1	1198.1
7.5°	1278.4	1258.9	1256.9	1268.7	1250.9	1249.0	1225.2	1225.2	1213.9	1204.0	1189.9
10°	1298.7	1278.6	1276.1	1285.1	1263.1	1256.6	1227.8	1223.3	1208.3	1193.6	1178.3
12.5°	1314.0	1293.6	1291.6	1297.3	1272.4	1260.6	1227.8	1219.0	1197.0	1176.3	1164.5
15°	1328.4	1307.5	1302.1	1304.9	1276.4	1260.6	1223.8	1210.3	1182.0	1154.9	1141.0
17.5°	1338.5	1318.5	1313.1	1312.8	1278.4	1255.8	1215.3	1196.7	1162.8	1130.0	1116.2
20°	1348.7	1328.7	1321.9	1316.8	1277.8	1249.3	1202.9	1177.8	1138.2	1101.5	1089.9
22.5°	1353.8	1333.2	1325.8	1318.2	1274.1	1237.4	1187.7	1155.7	1110.5	1066.7	1057.1
25°	1354.7	1333.5	1325.5	1314.5	1266.8	1223.3	1167.9	1129.2	1078.6	1030.0	1021.8
27.5°	1352.4	1329.2	1321.3	1308.0	1255.8	1206.0	1144.4	1098.9	1044.7	991.0	982.2
30°	1344.5	1321.0	1313.4	1296.2	1240.2	1184.8	1118.7	1065.3	1007.1	950.0	942.4
32.5°	1328.7	1305.8	1299.5	1282.3	1223.3	1160.2	1088.8	1029.1	965.5	911.0	899.7
35°	1305.5	1282.6	1278.6	1260.6	1199.5	1130.9	1056.0	989.6	921.5	865.8	854.8
37.5°	1275.2	1256.0	1250.1	1232.3	1171.5	1097.5	1018.4	946.6	876.5	816.6	809.9
40°	1237.1	1219.0	1214.5	1198.7	1139.0	1060.5	977.7	902.3	830.2	774.5	764.9
42.5°	1193.6	1176.6	1174.1	1157.7	1098.9	1019.5	933.6	856.2	781.9	728.2	718.6
45°	1144.1	1127.7	1127.2	1111.6	1055.1	974.0	887.3	809.6	734.7	679.0	673.9
47.5°	1089.6	1074.9	1074.9	1060.5	1006.2	924.0	839.5	761.0	687.2	638.0	629.0
50°	1030.3	1016.4	1012.2	1005.1	952.3	869.5	789.2	713.5	640.3	593.4	584.6
52.5°	967.0	955.1	957.9	944.9	893.8	812.7	738.4	660.1	593.1	550.5	541.7
55°	900.3	883.3	885.9	881.1	832.7	754.2	681.3	616.0	546.8	506.7	498.5
57.5°	831.0	809.0	818.0	815.2	767.7	694.3	629.0	566.0	500.7	463.7	455.8
60°	760.1	738.9	748.3	745.7	701.1	634.4	575.0	516.5	454.9	421.3	413.4
62.5°	687.2	667.7	676.2	674.2	633.2	573.1	521.3	467.7	408.9	378.6	371.3
65°	613.7	595.1	602.7	601.3	563.4	517.7	466.2	417.1	362.5	336.3	328.9
67.5°	538.6	521.3	528.4	528.4	493.7	449.9	410.9	365.9	317.0	294.4	287.7
70°	464.0	447.9	454.1	453.5	424.1	388.5	354.9	314.8	271.0	252.3	246.7
72.5°	388.8	374.7	380.3	379.8	355.2	332.3	299.0	264.2	226.1	211.1	206.0
75°	315.9	302.6	308.0	307.4	287.4	265.9	243.6	214.8	182.0	171.5	166.4
77.5°	246.4	232.8	237.4	237.4	222.7	207.1	189.3	167.0	143.8	132.5	128.9
80°	179.7	173.2	171.0	171.2	161.3	151.2	142.1	120.7	103.7	96.1	93.5
82.5°	118.1	112.7	110.5	111.1	105.4	99.2	93.5	78.6	67.3	62.7	61.3
85°	62.7	58.8	56.8	58.2	57.1	53.7	50.9	40.7	33.6	31.9	31.1
87.5°	19.8	17.2	15.8	20.9	17.8	15.8	15.3	12.2	9.3	9.3	9.0
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°	1211.4	1211.4	1211.4	1211.4	1211.4	1211.4	1211.4	1211.4	1211.4	1211.4	1211.4
2.5°	1209.7	1209.7	1198.7	1196.1	1195.0	1196.4	1185.4	1183.4	1199.2	1193.9	1181.7
5°	1200.1	1199.5	1184.0	1181.2	1181.2	1179.5	1167.0	1164.2	1180.0	1175.5	1162.2
7.5°	1188.2	1186.5	1168.2	1166.2	1163.3	1162.2	1148.4	1146.4	1160.0	1157.1	1144.7
10°	1173.8	1172.1	1150.4	1148.9	1145.8	1143.6	1130.6	1129.2	1143.0	1138.5	1128.6
12.5°	1154.9	1151.8	1129.4	1128.0	1125.5	1124.6	1111.9	1111.4	1126.6	1122.1	1111.6
15°	1130.0	1127.5	1102.6	1103.2	1103.4	1103.4	1093.3	1092.7	1107.7	1105.7	1094.4
17.5°	1102.6	1099.2	1075.5	1077.2	1079.1	1081.4	1073.5	1074.9	1090.7	1088.2	1078.0
20°	1071.5	1068.1	1045.0	1049.8	1054.0	1058.5	1053.4	1057.4	1072.1	1070.9	1063.3
22.5°	1036.8	1033.4	1011.9	1019.2	1026.3	1034.8	1032.5	1037.0	1052.6	1052.3	1045.5
25°	994.4	995.2	976.3	985.3	997.2	1009.1	1009.9	1017.3	1034.5	1032.8	1026.6
27.5°	954.8	955.9	935.9	951.1	967.0	982.2	985.9	996.1	1013.6	1012.2	1006.8
30°	913.3	914.7	895.2	916.1	935.3	954.0	961.9	975.7	993.5	993.5	987.9
32.5°	870.0	872.6	852.2	880.2	902.5	924.3	938.1	952.6	972.9	972.3	967.5
35°	825.7	828.5	809.9	845.5	867.8	894.3	911.6	930.8	948.9	949.2	945.5
37.5°	780.5	783.9	766.9	805.9	831.3	862.7	884.7	903.9	924.0	925.1	921.8
40°	735.5	739.2	724.5	762.1	794.3	829.3	854.8	877.4	899.4	900.0	897.7
42.5°	690.6	694.6	683.5	720.3	756.7	794.3	824.3	850.0	872.6	874.0	871.5
45°	646.8	650.2	642.3	682.4	717.5	758.4	792.9	822.0	844.9	846.9	846.0
47.5°	603.3	606.4	599.3	636.1	676.5	720.0	759.8	792.0	816.4	818.6	818.0
50°	560.6	563.2	555.5	594.0	634.1	680.4	722.0	759.3	786.4	788.7	788.4
52.5°	518.2	520.8	514.3	554.7	591.1	640.0	685.2	725.6	752.5	755.9	756.4
55°	477.3	478.4	473.3	512.0	547.3	598.5	650.5	689.8	716.6	719.4	721.1
57.5°	436.3	436.6	432.3	469.4	503.3	555.5	610.1	651.3	676.8	679.6	682.1
60°	395.6	395.3	390.5	426.4	458.9	510.6	567.4	608.4	633.0	635.5	638.9
62.5°	355.2	354.3	350.1	383.2	413.7	464.8	521.9	561.5	584.9	586.6	591.1
65°	315.1	314.2	310.3	340.8	368.5	417.4	473.3	510.9	532.1	534.3	533.5
67.5°	275.5	273.8	270.7	298.1	323.3	368.5	422.2	458.0	475.6	477.5	482.9
70°	235.9	234.0	226.9	256.0	278.1	318.5	368.5	400.4	415.1	417.1	416.2
72.5°	197.0	195.0	187.3	214.2	232.8	268.2	312.8	339.4	352.1	353.8	353.8
75°	159.1	158.0	153.2	173.5	189.0	217.9	255.7	277.8	287.7	289.6	289.1
77.5°	122.6	121.8	117.0	134.5	146.7	168.1	198.6	215.9	223.2	225.5	230.3
80°	87.9	87.6	80.0	97.2	102.6	120.7	143.0	156.3	160.2	163.3	166.7
82.5°	56.2	56.5	48.9	63.6	65.8	77.4	91.3	99.5	102.3	104.8	107.4
85°	27.4	28.5	24.3	33.6	33.9	39.8	45.8	48.9	50.0	52.0	54.3
87.5°	7.1	8.2	4.5	9.6	8.5	11.0	12.7	13.6	13.3	14.7	15.5
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°	1211.4	1211.4	1211.4	1211.4	1211.4	1211.4	1211.4	1211.4	1211.4	1211.4	1211.4
2.5°	1185.7	1194.7	1190.2	1204.9	1210.5	1201.5	1217.3	1217.6	1206.3	1219.6	1226.9
5°	1167.3	1176.6	1173.8	1189.1	1196.1	1188.2	1207.4	1211.1	1200.1	1215.1	1226.9
7.5°	1148.7	1159.7	1156.0	1171.5	1180.0	1173.8	1194.4	1200.4	1191.9	1208.3	1224.1
10°	1132.5	1141.9	1137.9	1154.3	1161.7	1156.6	1176.9	1187.9	1180.0	1200.1	1219.0
12.5°	1116.7	1124.4	1119.8	1133.4	1140.5	1134.0	1158.8	1169.0	1163.3	1184.3	1208.6
15°	1096.4	1104.9	1098.6	1110.8	1116.2	1110.5	1130.9	1148.4	1141.3	1164.2	1191.0
17.5°	1080.8	1085.6	1077.2	1086.8	1089.9	1082.3	1102.9	1120.1	1115.0	1139.9	1171.0
20°	1063.6	1067.6	1055.7	1061.1	1060.8	1051.2	1070.1	1087.1	1083.7	1111.1	1146.4
22.5°	1044.4	1046.4	1032.5	1033.6	1033.1	1017.3	1034.2	1051.5	1050.0	1077.7	1117.3
25°	1024.0	1024.3	1006.5	1006.0	999.7	981.1	996.1	1015.6	1011.3	1041.3	1082.8
27.5°	1004.0	1001.2	979.7	974.6	964.7	942.4	955.7	973.2	970.6	1000.0	1046.1
30°	982.5	978.8	952.6	943.2	928.8	903.1	914.1	930.5	931.9	957.6	1006.0
32.5°	962.2	952.8	923.7	910.2	892.1	862.1	868.1	884.7	887.0	913.0	962.7
35°	935.9	929.7	893.8	870.6	852.8	820.0	826.2	837.8	841.2	866.6	917.2
37.5°	911.0	901.1	863.0	834.7	811.8	777.4	779.1	790.9	794.3	820.0	870.0
40°	885.3	871.2	830.2	797.1	770.9	734.7	732.7	745.1	747.7	772.8	818.0
42.5°	857.9	840.9	794.9	758.7	728.5	691.7	687.8	698.5	701.3	725.9	770.3
45°	830.2	809.9	758.7	719.1	686.1	648.5	644.5	652.7	657.0	680.2	722.8
47.5°	800.8	777.1	721.4	677.3	643.1	605.6	600.7	608.9	612.3	635.2	675.6
50°	770.0	741.2	683.0	634.4	600.5	563.4	556.4	566.0	569.1	590.6	630.1
52.5°	736.1	704.2	642.0	591.1	557.2	521.9	513.4	522.8	526.4	547.3	583.8
55°	700.2	665.7	600.7	551.3	514.6	480.1	473.0	476.7	484.6	504.4	538.3
57.5°	659.8	625.6	557.2	506.9	471.6	438.6	432.6	436.0	443.4	462.6	493.1
60°	616.9	580.7	512.9	462.6	428.4	397.0	391.6	394.8	402.7	420.2	448.4
62.5°	574.5	533.8	467.1	417.1	386.0	356.9	355.5	354.3	361.7	378.6	403.5
65°	523.0	484.0	419.3	371.9	343.6	317.3	311.7	314.2	321.3	336.8	362.8
67.5°	467.9	432.6	370.5	326.7	301.5	278.1	273.2	274.4	281.7	295.3	317.9
70°	409.4	378.4	320.4	281.2	260.0	237.9	234.8	235.1	242.2	254.0	273.8
72.5°	348.1	320.2	269.9	236.2	218.7	202.9	200.1	196.7	203.2	213.3	230.3
75°	285.7	261.1	219.6	192.1	178.3	165.0	162.5	159.1	165.6	174.3	187.6
77.5°	222.7	202.9	170.7	149.5	138.7	128.9	126.6	122.9	129.4	135.9	146.4
80°	161.1	146.7	127.4	105.1	101.4	94.9	92.7	88.7	94.9	99.2	107.1
82.5°	104.0	94.4	83.4	67.8	67.3	62.4	61.3	56.8	62.4	65.0	70.9
85°	52.6	48.0	45.2	34.5	35.6	32.5	32.2	27.4	31.9	33.1	36.5
87.5°	15.0	15.8	14.1	8.5	10.7	10.2	10.2	7.3	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: P838165

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-1HI-27-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1211.4	1211.4	1211.4	1211.4	1211.4	1211.4	1211.4	1211.4
2.5°	1212.5	1217.3	1218.5	1218.2	1221.3	1238.2	1232.6	1238.2
5°	1215.3	1226.1	1228.9	1232.9	1237.9	1257.2	1250.9	1257.7
7.5°	1217.0	1233.1	1239.4	1247.0	1255.2	1276.7	1271.6	1278.4
10°	1217.0	1237.9	1247.0	1259.7	1270.7	1295.6	1290.8	1298.7
12.5°	1212.0	1238.8	1251.5	1269.3	1283.4	1310.3	1308.3	1314.0
15°	1201.5	1234.6	1252.1	1275.0	1292.5	1322.4	1321.6	1328.4
17.5°	1187.4	1227.2	1248.4	1277.2	1299.3	1332.9	1334.9	1338.5
20°	1169.6	1213.4	1241.1	1276.4	1304.1	1341.1	1343.6	1348.7
22.5°	1146.1	1196.7	1230.0	1272.7	1304.6	1344.5	1349.0	1353.8
25°	1118.4	1176.6	1215.6	1265.6	1301.8	1344.2	1350.4	1354.7
27.5°	1086.8	1150.6	1197.3	1254.3	1293.9	1339.7	1347.3	1352.4
30°	1050.0	1122.9	1176.3	1239.6	1283.2	1331.2	1339.4	1344.5
32.5°	1012.2	1092.4	1151.5	1220.7	1267.6	1317.6	1324.7	1328.7
35°	970.9	1055.4	1121.5	1196.4	1247.6	1295.9	1301.2	1305.5
37.5°	926.0	1015.3	1087.3	1169.0	1219.3	1265.6	1270.4	1275.2
40°	879.6	973.2	1048.9	1135.4	1185.7	1228.6	1233.7	1237.1
42.5°	833.0	926.6	1007.9	1095.8	1145.8	1187.1	1190.2	1193.6
45°	785.8	878.2	961.9	1052.0	1101.5	1140.2	1141.3	1144.1
47.5°	737.8	828.2	911.3	1002.0	1050.9	1086.2	1087.3	1089.6
50°	689.5	778.2	857.3	948.0	995.8	1033.1	1028.0	1030.3
52.5°	642.0	725.6	806.5	889.8	937.0	970.1	971.5	967.0
55°	595.4	674.2	748.5	828.8	873.7	899.4	898.6	900.3
57.5°	548.2	622.2	690.3	763.8	807.6	831.9	837.0	831.0
60°	500.2	569.7	630.7	697.1	739.5	759.8	765.8	760.1
62.5°	452.4	516.3	571.6	629.6	668.8	694.0	693.4	687.2
65°	404.6	462.6	512.0	561.2	595.4	620.5	619.4	613.7
67.5°	360.6	408.3	452.7	492.5	522.2	539.4	545.4	538.6
70°	312.0	353.2	392.2	424.1	448.7	464.3	469.9	464.0
72.5°	263.4	298.4	325.8	356.6	375.5	388.5	394.5	388.8
75°	215.3	244.1	266.5	290.5	303.8	314.8	321.6	315.9
77.5°	168.7	191.0	208.8	226.3	241.6	244.1	250.1	246.4
80°	124.3	140.4	153.4	165.0	176.0	177.2	182.0	179.7
82.5°	82.8	93.5	96.9	109.1	116.1	115.0	119.8	118.1
85°	43.8	50.3	56.2	59.9	63.9	60.2	64.4	62.7
87.5°	14.7	15.5	13.6	19.2	21.2	18.1	20.6	19.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)