

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: P837954

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-3STD-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: P837954
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-LD4-3STD-27-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

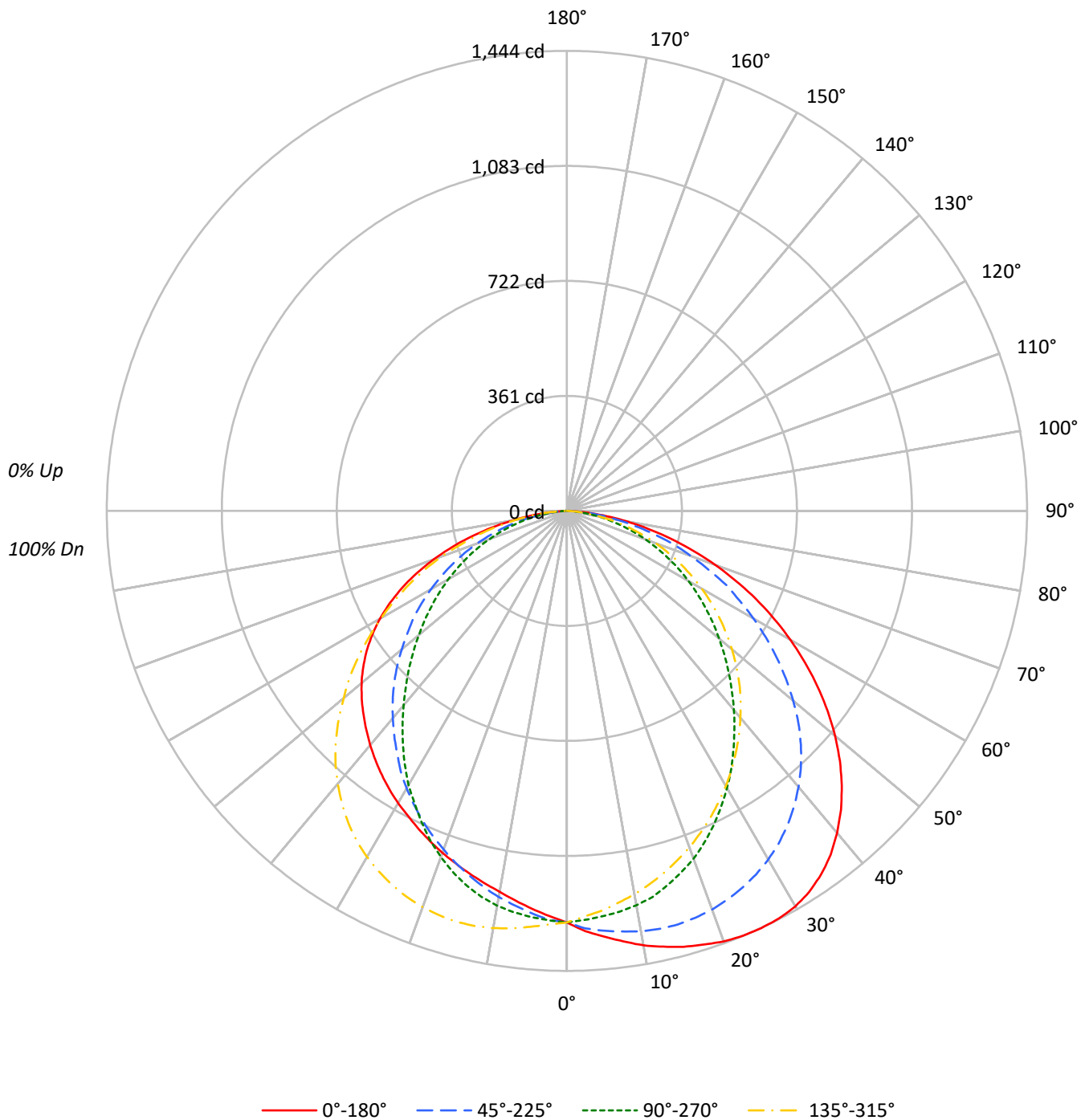
Lumens per Lamp: N/A
Luminaire Lumens: 3789.7 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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°	3476	3476	3476	3476
5°	3623	3451	3386	3457
10°	3784	3433	3317	3438
15°	3946	3390	3285	3390
20°	4119	3328	3270	3309
25°	4289	3235	3270	3202
30°	4455	3123	3292	3088
35°	4573	2994	3325	2947
40°	4634	2865	3371	2801
45°	4643	2735	3436	2666
50°	4599	2610	3521	2540
55°	4504	2494	3599	2424
60°	4362	2372	3647	2311
65°	4167	2233	3628	2181
70°	3893	2069	3499	2031
75°	3503	1845	3211	1836
80°	2969	1545	2700	1568
85°	2066	1022	1711	1050

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.6	3.2
10°-20°	355.1	9.4
20°-30°	544.3	14.4
30°-40°	661.8	17.5
40°-50°	688.0	18.2
50°-60°	621.4	16.4
60°-70°	472.5	12.5
70°-80°	263.4	7.0
80°-90°	60.6	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°	1022.0	27.0
0°-40°	1683.8	44.4
0°-60°	2993.2	79.0
0°-90°	3789.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3789.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1292	1292	1292	1292	1292	
5°	1341	1278	1254	1280	1341	129
15°	1416	1217	1179	1217	1416	402
25°	1444	1090	1101	1078	1444	667
35°	1392	912	1012	897	1392	869
45°	1220	719	903	700	1220	939
55°	960	532	767	517	960	857
65°	654	351	570	343	654	647
75°	337	178	309	177	337	358
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°	1291.7	1291.7	1291.7	1291.7	1291.7	1291.7	1291.7	1291.7	1291.7	1291.7	1291.7
2.5°	1320.3	1301.1	1301.4	1318.2	1305.3	1311.6	1293.5	1300.5	1298.4	1299.9	1285.1
5°	1341.1	1320.3	1320.0	1334.5	1320.0	1322.8	1299.9	1304.4	1297.7	1293.5	1277.6
7.5°	1363.1	1342.3	1340.2	1352.9	1333.9	1331.8	1306.5	1306.5	1294.4	1283.9	1268.8
10°	1384.8	1363.4	1360.7	1370.4	1346.9	1339.9	1309.2	1304.4	1288.4	1272.7	1256.5
12.5°	1401.1	1379.4	1377.3	1383.3	1356.8	1344.1	1309.2	1299.9	1276.4	1254.4	1241.7
15°	1416.5	1394.2	1388.4	1391.5	1361.0	1344.1	1305.0	1290.5	1260.4	1231.5	1216.7
17.5°	1427.3	1405.9	1400.2	1399.9	1363.1	1339.0	1295.9	1276.1	1239.9	1204.9	1190.2
20°	1438.2	1416.8	1409.5	1404.1	1362.5	1332.1	1282.7	1255.9	1213.7	1174.5	1162.2
22.5°	1443.6	1421.6	1413.8	1405.6	1358.6	1319.4	1266.4	1232.4	1184.2	1137.5	1127.2
25°	1444.5	1421.9	1413.5	1401.7	1350.8	1304.4	1245.3	1204.0	1150.1	1098.3	1089.5
27.5°	1442.1	1417.4	1408.9	1394.8	1339.0	1286.0	1220.3	1171.8	1113.9	1056.7	1047.4
30°	1433.6	1408.6	1400.5	1382.1	1322.5	1263.4	1192.9	1135.9	1073.9	1013.0	1004.9
32.5°	1416.8	1392.4	1385.7	1367.4	1304.4	1237.2	1161.0	1097.4	1029.6	971.4	959.4
35°	1392.1	1367.7	1363.4	1344.1	1279.1	1205.8	1126.0	1055.2	982.6	923.2	911.5
37.5°	1359.8	1339.3	1333.0	1314.0	1249.2	1170.3	1085.9	1009.4	934.7	870.8	863.6
40°	1319.1	1299.9	1295.0	1278.2	1214.6	1130.8	1042.5	962.1	885.3	825.9	815.6
42.5°	1272.7	1254.7	1251.9	1234.5	1171.8	1087.1	995.5	913.0	833.7	776.5	766.2
45°	1220.0	1202.5	1201.9	1185.4	1125.1	1038.6	946.1	863.3	783.4	724.1	718.6
47.5°	1161.9	1146.2	1146.2	1130.8	1073.0	985.3	895.2	811.4	732.8	680.4	670.7
50°	1098.6	1083.8	1079.3	1071.8	1015.4	927.1	841.6	760.8	682.8	632.8	623.4
52.5°	1031.1	1018.4	1021.4	1007.6	953.0	866.6	787.3	703.9	632.5	587.0	577.6
55°	960.0	941.9	944.6	939.5	888.0	804.2	726.5	656.9	583.0	540.3	531.5
57.5°	886.2	862.7	872.3	869.3	818.7	740.3	670.7	603.5	533.9	494.5	486.0
60°	810.5	787.9	797.9	795.2	747.6	676.4	613.2	550.8	485.1	449.3	440.8
62.5°	732.8	712.0	721.0	718.9	675.2	611.1	555.9	498.7	436.0	403.8	395.9
65°	654.4	634.6	642.7	641.2	600.8	552.0	497.2	444.7	386.6	358.6	350.7
67.5°	574.3	555.9	563.5	563.5	526.4	479.7	438.1	390.2	338.1	314.0	306.7
70°	494.8	477.6	484.2	483.6	452.3	414.3	378.4	335.7	289.0	269.1	263.0
72.5°	414.6	399.5	405.6	405.0	378.7	354.3	318.8	281.7	241.0	225.1	219.7
75°	336.9	322.7	328.4	327.8	306.4	283.5	259.7	229.0	194.0	182.9	177.5
77.5°	262.7	248.3	253.1	253.1	237.4	220.9	201.9	178.1	153.4	141.3	137.4
80°	191.6	184.7	182.3	182.6	172.0	161.2	151.6	128.7	110.6	102.4	99.7
82.5°	125.9	120.2	117.8	118.4	112.4	105.8	99.7	83.8	71.7	66.9	65.4
85°	66.9	62.7	60.6	62.1	60.9	57.2	54.2	43.4	35.9	34.0	33.1
87.5°	21.1	18.4	16.9	22.3	19.0	16.9	16.3	13.0	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°	1291.7	1291.7	1291.7	1291.7	1291.7	1291.7	1291.7	1291.7	1291.7	1291.7	1291.7
2.5°	1289.9	1289.9	1278.2	1275.5	1274.2	1275.8	1264.0	1261.9	1278.8	1273.0	1260.1
5°	1279.7	1279.1	1262.5	1259.5	1259.5	1257.7	1244.4	1241.4	1258.3	1253.5	1239.3
7.5°	1267.0	1265.2	1245.6	1243.5	1240.5	1239.3	1224.5	1222.4	1236.9	1233.9	1220.6
10°	1251.6	1249.8	1226.6	1225.1	1221.8	1219.4	1205.5	1204.0	1218.8	1214.0	1203.4
12.5°	1231.5	1228.1	1204.3	1202.8	1200.1	1199.2	1185.7	1185.1	1201.3	1196.5	1185.4
15°	1204.9	1202.2	1175.7	1176.3	1176.6	1176.6	1165.8	1165.2	1181.1	1179.0	1167.0
17.5°	1175.7	1172.1	1146.8	1148.6	1150.7	1153.1	1144.7	1146.2	1163.1	1160.3	1149.5
20°	1142.6	1139.0	1114.2	1119.4	1123.9	1128.7	1123.3	1127.5	1143.2	1142.0	1133.8
22.5°	1105.5	1101.9	1079.0	1086.8	1094.4	1103.4	1101.0	1105.8	1122.4	1122.1	1114.9
25°	1060.3	1061.2	1041.0	1050.7	1063.3	1076.0	1076.9	1084.7	1103.1	1101.3	1094.7
27.5°	1018.1	1019.3	997.9	1014.2	1031.1	1047.4	1051.3	1062.1	1080.8	1079.3	1073.6
30°	973.8	975.3	954.6	976.9	997.3	1017.2	1025.7	1040.4	1059.4	1059.4	1053.4
32.5°	927.7	930.4	908.8	938.6	962.4	985.6	1000.4	1015.7	1037.4	1036.8	1031.7
35°	880.4	883.4	863.6	901.5	925.3	953.7	972.0	992.5	1011.8	1012.1	1008.2
37.5°	832.2	835.8	817.8	859.3	886.5	919.9	943.4	963.9	985.3	986.5	982.9
40°	784.3	788.2	772.6	812.6	847.0	884.3	911.5	935.6	959.1	959.7	957.3
42.5°	736.4	740.6	728.9	768.0	806.9	847.0	878.9	906.3	930.4	932.0	929.2
45°	689.7	693.3	684.9	727.7	765.0	808.7	845.5	876.5	900.9	903.0	902.1
47.5°	643.3	646.6	639.1	678.3	721.3	767.7	810.2	844.6	870.5	872.9	872.3
50°	597.8	600.5	592.4	633.4	676.1	725.6	769.9	809.6	838.5	841.0	840.7
52.5°	552.6	555.3	548.4	591.5	630.3	682.5	730.7	773.8	802.4	806.0	806.6
55°	508.9	510.1	504.7	546.0	583.6	638.2	693.6	735.5	764.1	767.1	768.9
57.5°	465.2	465.5	461.0	500.5	536.6	592.4	650.5	694.5	721.6	724.7	727.4
60°	421.8	421.5	416.4	454.7	489.3	544.5	605.0	648.7	674.9	677.6	681.3
62.5°	378.7	377.8	373.3	408.6	441.1	495.7	556.5	598.7	623.7	625.5	630.3
65°	336.0	335.1	330.8	363.4	392.9	445.0	504.7	544.8	567.4	569.8	568.9
67.5°	293.8	292.0	288.7	317.9	344.7	392.9	450.2	488.4	507.1	509.2	514.9
70°	251.6	249.5	242.0	273.0	296.5	339.6	392.9	427.0	442.6	444.7	443.8
72.5°	210.0	207.9	199.8	228.4	248.3	285.9	333.6	361.9	375.4	377.2	377.2
75°	169.6	168.4	163.3	185.0	201.6	232.3	272.7	296.2	306.7	308.8	308.2
77.5°	130.8	129.9	124.7	143.4	156.4	179.3	211.8	230.2	238.0	240.4	245.6
80°	93.7	93.4	85.3	103.7	109.4	128.7	152.5	166.6	170.8	174.2	177.8
82.5°	60.0	60.3	52.1	67.8	70.2	82.6	97.3	106.1	109.1	111.8	114.5
85°	29.2	30.4	25.9	35.9	36.2	42.5	48.8	52.1	53.3	55.4	57.9
87.5°	7.5	8.7	4.8	10.2	9.0	11.8	13.6	14.5	14.2	15.7	16.6
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°	1291.7	1291.7	1291.7	1291.7	1291.7	1291.7	1291.7	1291.7	1291.7	1291.7	1291.7
2.5°	1264.3	1273.9	1269.1	1284.8	1290.8	1281.2	1298.0	1298.4	1286.3	1300.5	1308.3
5°	1244.7	1254.7	1251.6	1267.9	1275.5	1267.0	1287.5	1291.4	1279.7	1295.6	1308.3
7.5°	1224.8	1236.6	1232.7	1249.2	1258.3	1251.6	1273.6	1280.0	1270.9	1288.4	1305.3
10°	1207.7	1217.6	1213.4	1230.9	1238.7	1233.3	1255.0	1266.7	1258.3	1279.7	1299.9
12.5°	1190.8	1198.9	1194.1	1208.6	1216.1	1209.2	1235.7	1246.5	1240.5	1262.8	1288.7
15°	1169.1	1178.1	1171.5	1184.5	1190.2	1184.2	1205.8	1224.5	1217.0	1241.4	1270.0
17.5°	1152.5	1157.6	1148.6	1158.8	1162.2	1154.0	1176.0	1194.4	1189.0	1215.5	1248.6
20°	1134.1	1138.4	1125.7	1131.4	1131.1	1120.9	1141.1	1159.1	1155.5	1184.8	1222.4
22.5°	1113.6	1115.8	1101.0	1102.2	1101.6	1084.7	1102.8	1121.2	1119.7	1149.2	1191.4
25°	1092.0	1092.3	1073.3	1072.7	1066.0	1046.2	1062.1	1082.9	1078.4	1110.3	1154.6
27.5°	1070.6	1067.5	1044.6	1039.2	1028.7	1004.9	1019.0	1037.7	1035.0	1066.3	1115.5
30°	1047.7	1043.7	1015.7	1005.8	990.4	963.0	974.7	992.2	993.7	1021.1	1072.7
32.5°	1026.0	1016.0	985.0	970.5	951.2	919.3	925.6	943.4	945.8	973.5	1026.6
35°	997.9	991.3	953.0	928.3	909.4	874.4	881.0	893.4	897.0	924.1	978.1
37.5°	971.4	960.9	920.2	890.1	865.7	828.9	830.7	843.4	847.0	874.4	927.7
40°	944.0	928.9	885.3	850.0	822.0	783.4	781.3	794.6	797.3	824.1	872.3
42.5°	914.8	896.7	847.6	809.0	776.8	737.6	733.4	744.8	747.9	774.1	821.4
45°	885.3	863.6	809.0	766.8	731.6	691.5	687.3	696.0	700.5	725.3	770.8
47.5°	853.9	828.6	769.2	722.2	685.8	645.7	640.6	649.3	652.9	677.3	720.4
50°	821.1	790.3	728.3	676.4	640.3	600.8	593.3	603.5	606.8	629.7	671.9
52.5°	784.9	750.9	684.6	630.3	594.2	556.5	547.5	557.4	561.3	583.6	622.5
55°	746.6	709.9	640.6	587.9	548.7	511.9	504.4	508.3	516.7	537.8	574.0
57.5°	703.6	667.1	594.2	540.6	502.9	467.6	461.3	464.9	472.8	493.2	525.8
60°	657.8	619.2	546.9	493.2	456.8	423.3	417.6	420.9	429.4	448.0	478.2
62.5°	612.6	569.2	498.1	444.7	411.6	380.6	379.0	377.8	385.7	403.8	430.3
65°	557.7	516.1	447.1	396.5	366.4	338.4	332.3	335.1	342.6	359.2	386.9
67.5°	499.0	461.3	395.0	348.3	321.5	296.5	291.4	292.6	300.4	314.9	339.0
70°	436.6	403.5	341.7	299.8	277.2	253.7	250.4	250.7	258.2	270.9	292.0
72.5°	371.2	341.4	287.8	251.9	233.2	216.3	213.3	209.7	216.6	227.5	245.6
75°	304.6	278.4	234.1	204.9	190.1	176.0	173.3	169.6	176.6	185.9	200.1
77.5°	237.4	216.3	182.0	159.4	147.9	137.4	135.0	131.1	138.0	144.9	156.1
80°	171.7	156.4	135.9	112.1	108.2	101.2	98.8	94.6	101.2	105.8	114.2
82.5°	110.9	100.6	88.9	72.3	71.7	66.6	65.4	60.6	66.6	69.3	75.6
85°	56.0	51.2	48.2	36.8	38.0	34.7	34.3	29.2	34.0	35.3	38.9
87.5°	16.0	16.9	15.1	9.0	11.4	10.8	10.8	7.8	10.8	10.8	12.4
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: P837954

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-3STD-27-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1291.7	1291.7	1291.7	1291.7	1291.7	1291.7	1291.7	1291.7
2.5°	1292.9	1298.0	1299.3	1299.0	1302.3	1320.3	1314.3	1320.3
5°	1295.9	1307.4	1310.4	1314.6	1320.0	1340.5	1333.9	1341.1
7.5°	1297.7	1314.9	1321.6	1329.7	1338.4	1361.3	1355.9	1363.1
10°	1297.7	1320.0	1329.7	1343.2	1355.0	1381.5	1376.4	1384.8
12.5°	1292.3	1320.9	1334.5	1353.5	1368.6	1397.2	1395.1	1401.1
15°	1281.2	1316.4	1335.1	1359.5	1378.2	1410.1	1409.2	1416.5
17.5°	1266.1	1308.6	1331.2	1361.9	1385.4	1421.3	1423.4	1427.3
20°	1247.1	1293.8	1323.4	1361.0	1390.6	1430.0	1432.7	1438.2
22.5°	1222.1	1276.1	1311.6	1357.1	1391.2	1433.6	1438.5	1443.6
25°	1192.6	1254.7	1296.2	1349.6	1388.1	1433.3	1440.0	1444.5
27.5°	1158.8	1226.9	1276.7	1337.5	1379.7	1428.5	1436.7	1442.1
30°	1119.7	1197.4	1254.4	1321.9	1368.3	1419.5	1428.2	1433.6
32.5°	1079.3	1164.9	1227.8	1301.7	1351.7	1405.0	1412.5	1416.8
35°	1035.3	1125.4	1195.9	1275.8	1330.3	1381.8	1387.5	1392.1
37.5°	987.4	1082.6	1159.4	1246.5	1300.2	1349.6	1354.7	1359.8
40°	938.0	1037.7	1118.5	1210.7	1264.3	1310.1	1315.5	1319.1
42.5°	888.3	988.0	1074.8	1168.5	1221.8	1265.8	1269.1	1272.7
45°	837.9	936.5	1025.7	1121.8	1174.5	1215.8	1217.0	1220.0
47.5°	786.7	883.1	971.7	1068.4	1120.6	1158.2	1159.4	1161.9
50°	735.2	829.8	914.2	1010.9	1061.8	1101.6	1096.2	1098.6
52.5°	684.6	773.8	859.9	948.8	999.1	1034.4	1035.9	1031.1
55°	634.9	718.9	798.2	883.7	931.7	959.1	958.2	960.0
57.5°	584.5	663.5	736.1	814.4	861.1	887.1	892.5	886.2
60°	533.3	607.4	672.5	743.3	788.5	810.2	816.6	810.5
62.5°	482.4	550.5	609.6	671.3	713.2	740.0	739.4	732.8
65°	431.5	493.2	546.0	598.4	634.9	661.7	660.5	654.4
67.5°	384.5	435.4	482.7	525.2	556.8	575.2	581.5	574.3
70°	332.6	376.6	418.2	452.3	478.5	495.1	501.1	494.8
72.5°	280.8	318.2	347.4	380.3	400.4	414.3	420.6	414.6
75°	229.6	260.3	284.1	309.7	323.9	335.7	342.9	336.9
77.5°	179.9	203.7	222.7	241.4	257.6	260.3	266.7	262.7
80°	132.6	149.8	163.6	176.0	187.7	188.9	194.0	191.6
82.5°	88.3	99.7	103.3	116.3	123.8	122.6	127.8	125.9
85°	46.7	53.6	60.0	63.9	68.1	64.2	68.7	66.9
87.5°	15.7	16.6	14.5	20.5	22.6	19.3	22.0	21.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)