

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: P838201

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-1HI-35-120-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: P838201
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-35-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

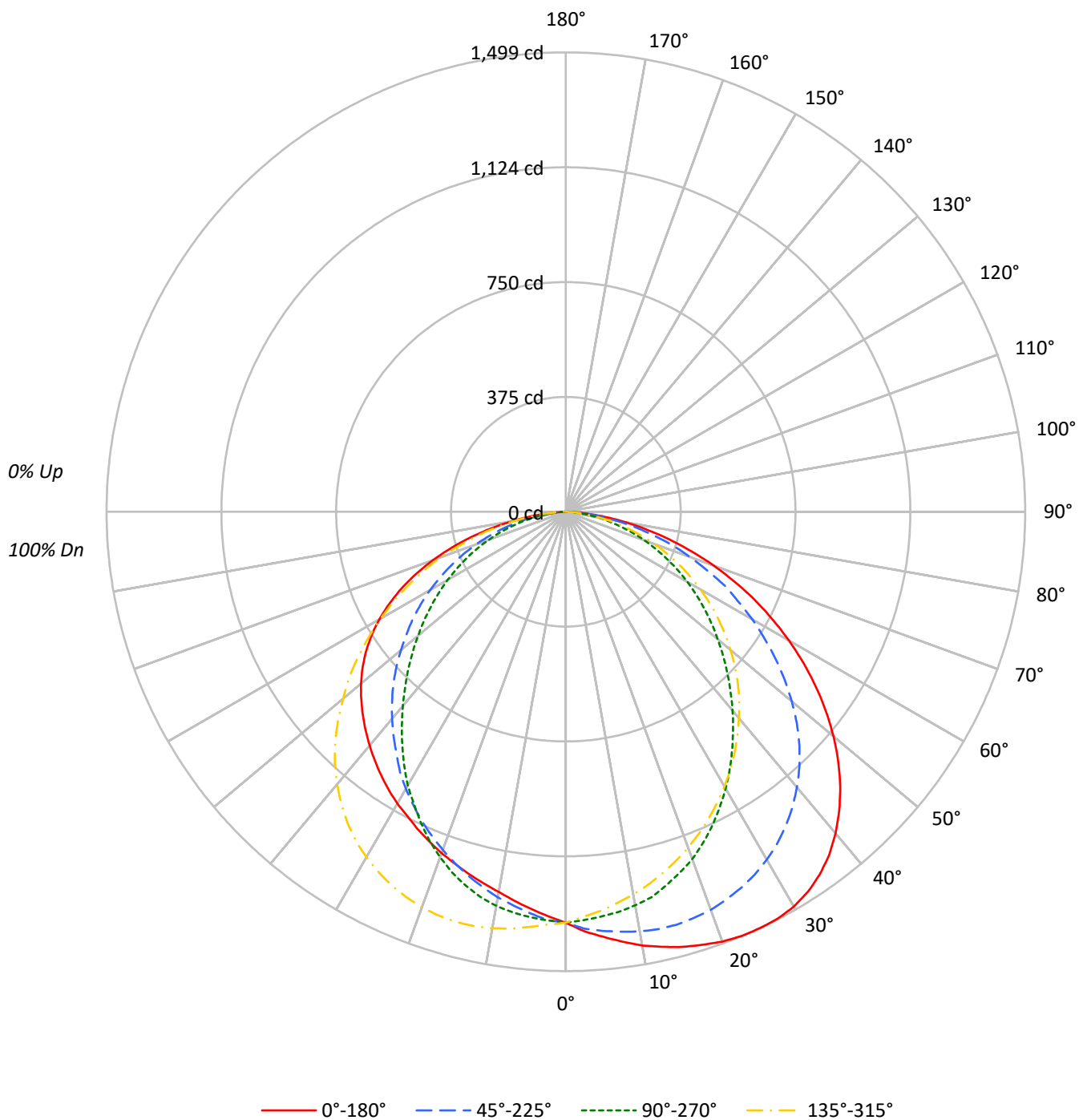
Lumens per Lamp: N/A
Luminaire Lumens: 3933.1 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1804	1804	1804	1804
5°	1880	1791	1757	1794
10°	1964	1782	1721	1784
15°	2048	1759	1704	1759
20°	2137	1727	1697	1717
25°	2226	1679	1697	1662
30°	2312	1620	1708	1602
35°	2373	1554	1725	1529
40°	2405	1487	1749	1453
45°	2409	1419	1783	1384
50°	2387	1354	1827	1318
55°	2337	1294	1868	1258
60°	2264	1231	1893	1199
65°	2162	1159	1883	1132
70°	2020	1074	1816	1054
75°	1817	958	1666	952
80°	1541	802	1400	814
85°	1071	531	888	545

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.3	3.2
10°-20°	368.6	9.4
20°-30°	564.9	14.4
30°-40°	686.8	17.5
40°-50°	714.0	18.2
50°-60°	645.0	16.4
60°-70°	490.3	12.5
70°-80°	273.4	7.0
80°-90°	62.9	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°	1060.7	27.0
0°-40°	1747.5	44.4
0°-60°	3106.5	79.0
0°-90°	3933.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3933.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1341	1341	1341	1341	1341	
5°	1392	1326	1301	1328	1392	134
15°	1470	1263	1224	1263	1470	417
25°	1499	1131	1143	1119	1499	692
35°	1445	946	1050	931	1445	902
45°	1266	746	937	727	1266	975
55°	996	552	796	536	996	889
65°	679	364	591	356	679	671
75°	350	184	320	183	350	371
85°	69	34	58	35	69	87
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°	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6
2.5°	1370.3	1350.3	1350.6	1368.1	1354.7	1361.2	1342.5	1349.7	1347.5	1349.0	1333.7
5°	1391.9	1370.3	1370.0	1385.0	1370.0	1372.8	1349.0	1353.7	1346.9	1342.5	1325.9
7.5°	1414.7	1393.1	1390.9	1404.1	1384.4	1382.2	1355.9	1355.9	1343.4	1332.5	1316.8
10°	1437.2	1415.0	1412.2	1422.2	1397.8	1390.6	1358.7	1353.7	1337.2	1320.9	1304.0
12.5°	1454.1	1431.6	1429.4	1435.7	1408.1	1395.0	1358.7	1349.0	1324.7	1301.8	1288.7
15°	1470.1	1446.9	1441.0	1444.1	1412.5	1395.0	1354.4	1339.4	1308.1	1278.1	1262.7
17.5°	1481.3	1459.1	1453.2	1452.9	1414.7	1389.7	1345.0	1324.3	1286.8	1250.5	1235.2
20°	1492.6	1470.4	1462.9	1457.2	1414.1	1382.5	1331.2	1303.4	1259.6	1219.0	1206.1
22.5°	1498.2	1475.4	1467.2	1458.8	1410.0	1369.4	1314.3	1279.0	1229.0	1180.5	1169.9
25°	1499.1	1475.7	1466.9	1454.7	1401.9	1353.7	1292.4	1249.6	1193.6	1139.8	1130.8
27.5°	1496.6	1471.0	1462.2	1447.5	1389.7	1334.7	1266.5	1216.1	1156.1	1096.7	1087.0
30°	1487.9	1461.9	1453.5	1434.4	1372.5	1311.2	1238.0	1178.9	1114.5	1051.3	1042.9
32.5°	1470.4	1445.0	1438.2	1419.1	1353.7	1284.0	1204.9	1138.9	1068.5	1008.2	995.7
35°	1444.7	1419.4	1415.0	1395.0	1327.5	1251.5	1168.6	1095.1	1019.8	958.2	946.0
37.5°	1411.3	1390.0	1383.4	1363.7	1296.5	1214.6	1127.0	1047.6	970.0	903.7	896.2
40°	1369.1	1349.0	1344.0	1326.5	1260.5	1173.6	1082.0	998.5	918.8	857.1	846.5
42.5°	1320.9	1302.1	1299.3	1281.2	1216.1	1128.3	1033.2	947.5	865.3	805.9	795.2
45°	1266.2	1248.0	1247.4	1230.2	1167.7	1077.9	981.9	895.9	813.1	751.4	745.8
47.5°	1205.8	1189.6	1189.6	1173.6	1113.6	1022.6	929.1	842.1	760.5	706.1	696.1
50°	1140.2	1124.8	1120.1	1112.3	1053.8	962.2	873.4	789.6	708.6	656.7	647.0
52.5°	1070.1	1057.0	1060.1	1045.7	989.1	899.4	817.1	730.5	656.4	609.2	599.5
55°	996.3	977.5	980.4	975.0	921.6	834.6	754.0	681.7	605.1	560.7	551.6
57.5°	919.7	895.3	905.3	902.2	849.6	768.3	696.1	626.4	554.1	513.2	504.4
60°	841.2	817.7	828.1	825.2	775.8	702.0	636.4	571.6	503.5	466.3	457.5
62.5°	760.5	738.9	748.3	746.1	700.8	634.2	577.0	517.5	452.5	419.0	410.9
65°	679.2	658.6	667.0	665.5	623.5	572.9	516.0	461.6	401.2	372.1	364.0
67.5°	596.0	577.0	584.8	584.8	546.3	497.8	454.7	405.0	350.9	325.8	318.3
70°	513.5	495.7	502.5	501.9	469.4	430.0	392.8	348.4	299.9	279.3	273.0
72.5°	430.3	414.7	420.9	420.3	393.1	367.8	330.9	292.4	250.2	233.6	228.0
75°	349.6	334.9	340.9	340.2	318.0	294.3	269.6	237.7	201.4	189.8	184.2
77.5°	272.7	257.7	262.7	262.7	246.4	229.2	209.5	184.8	159.2	146.7	142.6
80°	198.9	191.7	189.2	189.5	178.6	167.3	157.3	133.5	114.8	106.3	103.5
82.5°	130.7	124.8	122.3	122.9	116.6	109.8	103.5	86.9	74.4	69.4	67.9
85°	69.4	65.0	62.9	64.4	63.2	59.4	56.3	45.0	37.2	35.3	34.4
87.5°	21.9	19.1	17.5	23.1	19.7	17.5	16.9	13.4	10.3	10.3	10.0
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°	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6
2.5°	1338.7	1338.7	1326.5	1323.7	1322.5	1324.0	1311.8	1309.6	1327.2	1321.2	1307.8
5°	1328.1	1327.5	1310.3	1307.1	1307.1	1305.3	1291.5	1288.4	1305.9	1300.9	1286.2
7.5°	1315.0	1313.1	1292.8	1290.6	1287.4	1286.2	1270.9	1268.7	1283.7	1280.6	1266.8
10°	1299.0	1297.1	1273.1	1271.5	1268.1	1265.5	1251.2	1249.6	1264.9	1259.9	1249.0
12.5°	1278.1	1274.6	1249.9	1248.4	1245.5	1244.6	1230.5	1229.9	1246.8	1241.8	1230.2
15°	1250.5	1247.7	1220.2	1220.8	1221.1	1221.1	1209.9	1209.3	1225.8	1223.6	1211.1
17.5°	1220.2	1216.5	1190.2	1192.1	1194.3	1196.8	1188.0	1189.6	1207.1	1204.3	1193.0
20°	1185.8	1182.1	1156.4	1161.7	1166.4	1171.4	1165.8	1170.2	1186.4	1185.2	1176.7
22.5°	1147.3	1143.6	1119.8	1128.0	1135.8	1145.2	1142.7	1147.7	1164.9	1164.5	1157.0
25°	1100.4	1101.4	1080.4	1090.4	1103.6	1116.7	1117.6	1125.8	1144.8	1143.0	1136.1
27.5°	1056.7	1057.9	1035.7	1052.6	1070.1	1087.0	1091.1	1102.3	1121.7	1120.1	1114.2
30°	1010.7	1012.3	990.7	1013.8	1035.1	1055.7	1064.5	1079.8	1099.5	1099.5	1093.2
32.5°	962.8	965.7	943.1	974.1	998.8	1022.9	1038.2	1054.2	1076.7	1076.0	1070.7
35°	913.7	916.9	896.2	935.6	960.3	989.7	1008.8	1030.1	1050.1	1050.4	1046.3
37.5°	863.7	867.5	848.7	891.9	920.0	954.7	979.1	1000.4	1022.6	1023.8	1020.1
40°	814.0	818.1	801.8	843.4	879.0	917.8	946.0	971.0	995.4	996.0	993.5
42.5°	764.3	768.6	756.5	797.1	837.4	879.0	912.2	940.6	965.7	967.2	964.4
45°	715.8	719.6	710.8	755.2	794.0	839.3	877.5	909.7	935.0	937.2	936.3
47.5°	667.6	671.1	663.3	703.9	748.6	796.8	840.9	876.5	903.4	905.9	905.3
50°	620.4	623.2	614.8	657.3	701.7	753.0	799.0	840.3	870.3	872.8	872.5
52.5°	573.5	576.3	569.1	613.9	654.2	708.3	758.3	803.0	832.8	836.5	837.1
55°	528.2	529.4	523.8	566.6	605.7	662.3	719.9	763.3	793.0	796.2	798.0
57.5°	482.8	483.1	478.5	519.4	556.9	614.8	675.1	720.8	748.9	752.1	754.9
60°	437.8	437.5	432.2	471.9	507.8	565.1	627.9	673.3	700.5	703.3	707.0
62.5°	393.1	392.1	387.5	424.0	457.8	514.4	577.6	621.4	647.3	649.2	654.2
65°	348.7	347.7	343.4	377.1	407.8	461.9	523.8	565.4	588.8	591.3	590.4
67.5°	304.9	303.0	299.6	329.9	357.7	407.8	467.2	506.9	526.3	528.5	534.4
70°	261.1	258.9	251.1	283.3	307.7	352.4	407.8	443.1	459.4	461.6	460.6
72.5°	218.0	215.8	207.3	237.0	257.7	296.8	346.2	375.6	389.6	391.5	391.5
75°	176.1	174.8	169.5	192.0	209.2	241.1	283.0	307.4	318.3	320.5	319.9
77.5°	135.7	134.8	129.5	148.9	162.3	186.1	219.8	238.9	247.0	249.5	254.9
80°	97.3	96.9	88.5	107.6	113.5	133.5	158.2	172.9	177.3	180.7	184.5
82.5°	62.2	62.5	54.1	70.4	72.9	85.7	101.0	110.1	113.2	116.0	118.8
85°	30.3	31.6	26.9	37.2	37.5	44.1	50.7	54.1	55.4	57.5	60.0
87.5°	7.8	9.1	5.0	10.6	9.4	12.2	14.1	15.0	14.7	16.3	17.2
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°	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6
2.5°	1312.1	1322.2	1317.1	1333.4	1339.7	1329.7	1347.2	1347.5	1335.0	1349.7	1357.8
5°	1291.8	1302.1	1299.0	1315.9	1323.7	1315.0	1336.2	1340.3	1328.1	1344.7	1357.8
7.5°	1271.2	1283.4	1279.3	1296.5	1305.9	1299.0	1321.8	1328.4	1319.0	1337.2	1354.7
10°	1253.4	1263.7	1259.3	1277.4	1285.6	1279.9	1302.4	1314.6	1305.9	1328.1	1349.0
12.5°	1235.8	1244.3	1239.3	1254.3	1262.1	1254.9	1282.4	1293.7	1287.4	1310.6	1337.5
15°	1213.3	1222.7	1215.8	1229.3	1235.2	1229.0	1251.5	1270.9	1263.0	1288.4	1318.1
17.5°	1196.1	1201.4	1192.1	1202.7	1206.1	1197.7	1220.5	1239.6	1234.0	1261.5	1295.9
20°	1177.1	1181.4	1168.3	1174.2	1173.9	1163.3	1184.2	1203.0	1199.3	1229.6	1268.7
22.5°	1155.8	1158.0	1142.7	1143.9	1143.3	1125.8	1144.5	1163.6	1162.0	1192.7	1236.5
25°	1133.3	1133.6	1113.9	1113.3	1106.4	1085.7	1102.3	1123.9	1119.2	1152.3	1198.3
27.5°	1111.1	1107.9	1084.2	1078.5	1067.6	1042.9	1057.6	1077.0	1074.2	1106.7	1157.7
30°	1087.3	1083.2	1054.2	1043.8	1027.9	999.4	1011.6	1029.8	1031.3	1059.8	1113.3
32.5°	1064.8	1054.5	1022.3	1007.2	987.2	954.1	960.7	979.1	981.6	1010.4	1065.4
35°	1035.7	1028.8	989.1	963.5	943.8	907.5	914.4	927.2	930.9	959.1	1015.1
37.5°	1008.2	997.2	955.0	923.8	898.4	860.3	862.1	875.3	879.0	907.5	962.8
40°	979.7	964.1	918.8	882.2	853.1	813.1	810.9	824.6	827.4	855.3	905.3
42.5°	949.4	930.6	879.7	839.6	806.2	765.5	761.1	773.0	776.2	803.4	852.5
45°	918.8	896.2	839.6	795.9	759.3	717.7	713.3	722.4	727.1	752.7	799.9
47.5°	886.2	860.0	798.4	749.6	711.7	670.1	664.8	673.9	677.6	703.0	747.7
50°	852.1	820.2	755.8	702.0	664.5	623.5	615.7	626.4	629.8	653.6	697.4
52.5°	814.6	779.3	710.5	654.2	616.7	577.6	568.2	578.5	582.6	605.7	646.1
55°	774.9	736.8	664.8	610.1	569.5	531.3	523.5	527.5	536.3	558.2	595.7
57.5°	730.2	692.3	616.7	561.0	521.9	485.3	478.8	482.5	490.6	511.9	545.7
60°	682.7	642.6	567.6	511.9	474.1	439.4	433.4	436.9	445.6	465.0	496.3
62.5°	635.7	590.7	516.9	461.6	427.2	395.0	393.4	392.1	400.3	419.0	446.6
65°	578.8	535.7	464.1	411.5	380.3	351.2	344.9	347.7	355.6	372.8	401.5
67.5°	517.9	478.8	410.0	361.5	333.7	307.7	302.4	303.6	311.8	326.8	351.8
70°	453.1	418.7	354.6	311.1	287.7	263.3	259.9	260.2	268.0	281.1	303.0
72.5°	385.3	354.3	298.6	261.4	242.0	224.5	221.4	217.6	224.8	236.1	254.9
75°	316.2	288.9	243.0	212.6	197.3	182.6	179.8	176.1	183.2	192.9	207.6
77.5°	246.4	224.5	188.9	165.4	153.5	142.6	140.1	136.0	143.2	150.4	162.0
80°	178.2	162.3	141.0	116.3	112.3	105.1	102.6	98.2	105.1	109.8	118.5
82.5°	115.1	104.4	92.3	75.1	74.4	69.1	67.9	62.9	69.1	71.9	78.5
85°	58.2	53.2	50.0	38.2	39.4	36.0	35.6	30.3	35.3	36.6	40.3
87.5°	16.6	17.5	15.6	9.4	11.9	11.3	11.3	8.1	11.3	11.3	12.8
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: P838201

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-1HI-35-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6
2.5°	1341.9	1347.2	1348.4	1348.1	1351.5	1370.3	1364.1	1370.3
5°	1345.0	1356.9	1360.0	1364.4	1370.0	1391.3	1384.4	1391.9
7.5°	1346.9	1364.7	1371.6	1380.0	1389.1	1412.8	1407.2	1414.7
10°	1346.9	1370.0	1380.0	1394.1	1406.3	1433.8	1428.5	1437.2
12.5°	1341.2	1370.9	1385.0	1404.7	1420.3	1450.1	1447.9	1454.1
15°	1329.7	1366.2	1385.6	1411.0	1430.3	1463.5	1462.6	1470.1
17.5°	1314.0	1358.1	1381.6	1413.5	1437.9	1475.1	1477.3	1481.3
20°	1294.3	1342.8	1373.4	1412.5	1443.2	1484.1	1487.0	1492.6
22.5°	1268.4	1324.3	1361.2	1408.5	1443.8	1487.9	1492.9	1498.2
25°	1237.7	1302.1	1345.3	1400.6	1440.7	1487.6	1494.5	1499.1
27.5°	1202.7	1273.4	1325.0	1388.1	1431.9	1482.6	1491.0	1496.6
30°	1162.0	1242.7	1301.8	1371.9	1420.0	1473.2	1482.3	1487.9
32.5°	1120.1	1208.9	1274.3	1350.9	1402.8	1458.2	1466.0	1470.4
35°	1074.5	1168.0	1241.2	1324.0	1380.6	1434.1	1440.0	1444.7
37.5°	1024.8	1123.6	1203.3	1293.7	1349.4	1400.6	1406.0	1411.3
40°	973.5	1077.0	1160.8	1256.5	1312.1	1359.7	1365.3	1369.1
42.5°	921.9	1025.4	1115.4	1212.7	1268.1	1313.7	1317.1	1320.9
45°	869.7	971.9	1064.5	1164.2	1219.0	1261.8	1263.0	1266.2
47.5°	816.5	916.6	1008.5	1108.9	1163.0	1202.1	1203.3	1205.8
50°	763.0	861.2	948.8	1049.2	1102.0	1143.3	1137.7	1140.2
52.5°	710.5	803.0	892.5	984.7	1037.0	1073.5	1075.1	1070.1
55°	658.9	746.1	828.4	917.2	966.9	995.4	994.4	996.3
57.5°	606.7	688.6	764.0	845.3	893.7	920.6	926.3	919.7
60°	553.5	630.4	698.0	771.5	818.4	840.9	847.5	841.2
62.5°	500.7	571.3	632.6	696.7	740.2	768.0	767.4	760.5
65°	447.8	511.9	566.6	621.0	658.9	686.7	685.5	679.2
67.5°	399.0	451.9	501.0	545.1	577.9	597.0	603.5	596.0
70°	345.2	390.9	434.0	469.4	496.6	513.8	520.0	513.5
72.5°	291.4	330.2	360.6	394.6	415.6	430.0	436.5	430.3
75°	238.3	270.2	294.9	321.5	336.2	348.4	355.9	349.6
77.5°	186.7	211.4	231.1	250.5	267.4	270.2	276.8	272.7
80°	137.6	155.4	169.8	182.6	194.8	196.1	201.4	198.9
82.5°	91.6	103.5	107.3	120.7	128.5	127.3	132.6	130.7
85°	48.5	55.7	62.2	66.3	70.7	66.6	71.3	69.4
87.5°	16.3	17.2	15.0	21.3	23.5	20.0	22.8	21.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)