

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: P838219

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-1HI-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: P838219
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-40-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and RFI grid
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

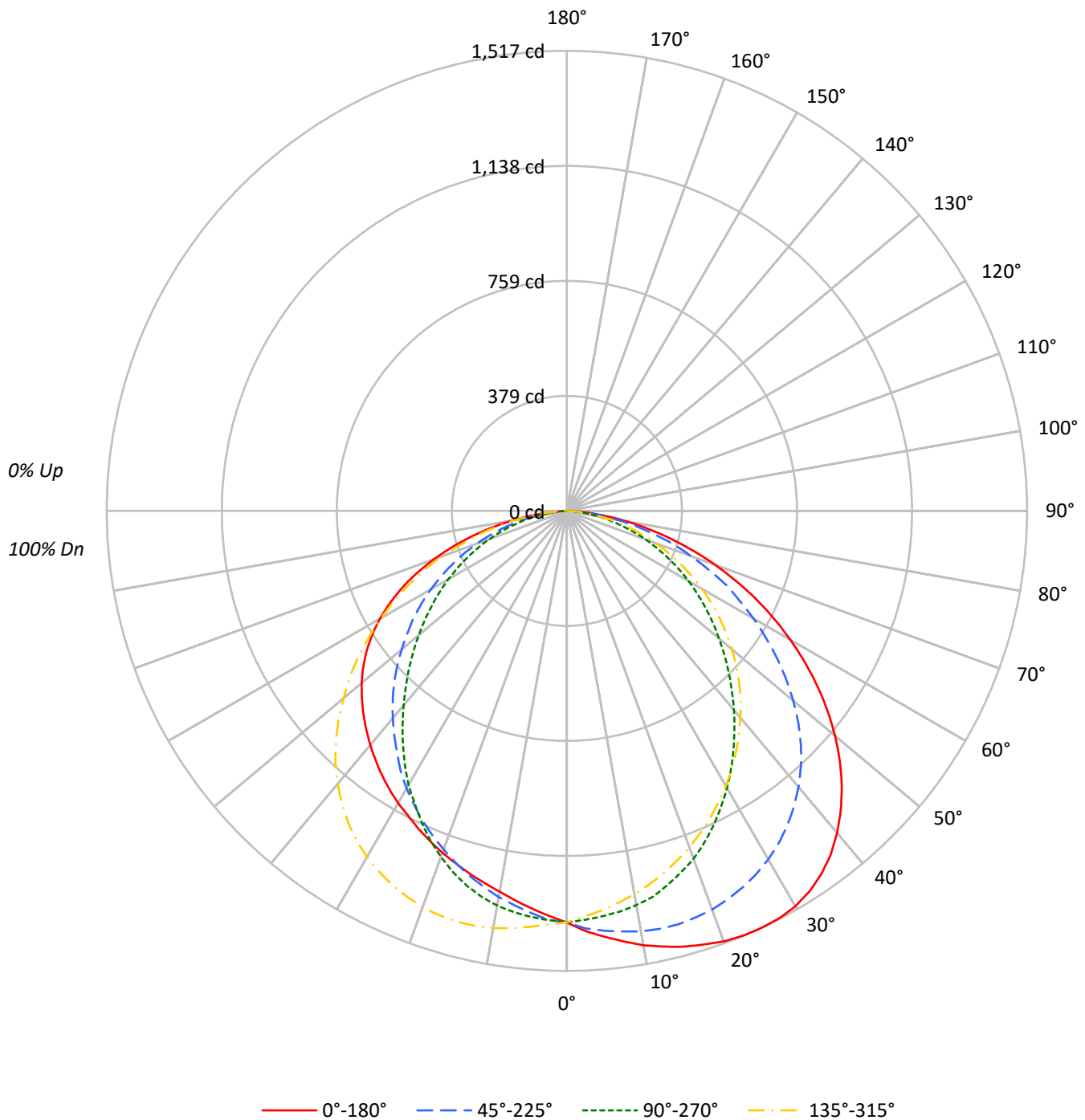
Lumens per Lamp: N/A
Luminaire Lumens: 3980.5 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1826	1826	1826	1826
5°	1903	1812	1778	1815
10°	1987	1803	1742	1806
15°	2072	1780	1725	1781
20°	2163	1748	1717	1738
25°	2252	1699	1717	1682
30°	2339	1640	1729	1622
35°	2402	1573	1746	1548
40°	2434	1505	1770	1471
45°	2438	1436	1805	1400
50°	2415	1371	1849	1334
55°	2365	1310	1890	1273
60°	2291	1246	1915	1214
65°	2188	1173	1905	1145
70°	2044	1087	1838	1067
75°	1839	969	1686	964
80°	1560	812	1417	824
85°	1085	537	898	553

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.8	3.2
10°-20°	373.0	9.4
20°-30°	571.7	14.4
30°-40°	695.1	17.5
40°-50°	722.6	18.2
50°-60°	652.7	16.4
60°-70°	496.2	12.5
70°-80°	276.6	7.0
80°-90°	63.7	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°	1073.5	27.0
0°-40°	1768.6	44.4
0°-60°	3143.9	79.0
0°-90°	3980.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3980.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1357	1357	1357	1357	1357	
5°	1409	1342	1317	1344	1409	136
15°	1488	1278	1238	1278	1488	422
25°	1517	1144	1157	1133	1517	701
35°	1462	957	1063	942	1462	913
45°	1281	755	948	736	1281	987
55°	1008	558	806	543	1008	900
65°	687	368	598	360	687	679
75°	354	186	324	186	354	376
85°	70	35	58	36	70	88
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°	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8
2.5°	1386.8	1366.6	1366.9	1384.6	1371.0	1377.6	1358.7	1365.9	1363.7	1365.3	1349.8
5°	1408.7	1386.8	1386.5	1401.7	1386.5	1389.4	1365.3	1370.0	1363.1	1358.7	1341.9
7.5°	1431.8	1409.9	1407.7	1421.0	1401.1	1398.8	1372.3	1372.3	1359.6	1348.5	1332.7
10°	1454.5	1432.1	1429.2	1439.4	1414.7	1407.4	1375.1	1370.0	1353.3	1336.8	1319.7
12.5°	1471.6	1448.8	1446.6	1453.0	1425.1	1411.8	1375.1	1365.3	1340.6	1317.5	1304.2
15°	1487.8	1464.4	1458.3	1461.5	1429.5	1411.8	1370.7	1355.5	1323.8	1293.5	1277.9
17.5°	1499.2	1476.7	1470.7	1470.4	1431.8	1406.4	1361.2	1340.3	1302.3	1265.6	1250.1
20°	1510.6	1488.1	1480.5	1474.8	1431.1	1399.2	1347.3	1319.1	1274.8	1233.6	1220.7
22.5°	1516.3	1493.2	1484.9	1476.4	1427.0	1385.9	1330.2	1294.4	1243.8	1194.7	1184.0
25°	1517.2	1493.5	1484.6	1472.3	1418.8	1370.0	1308.0	1264.7	1208.0	1153.6	1144.4
27.5°	1514.7	1488.7	1479.9	1465.0	1406.4	1350.7	1281.7	1230.8	1170.0	1109.9	1100.1
30°	1505.8	1479.5	1471.0	1451.7	1389.0	1327.0	1252.9	1193.1	1127.9	1064.0	1055.5
32.5°	1488.1	1462.5	1455.5	1436.2	1370.0	1299.5	1219.4	1152.6	1081.4	1020.3	1007.7
35°	1462.1	1436.5	1432.1	1411.8	1343.5	1266.6	1182.7	1108.3	1032.0	969.7	957.4
37.5°	1428.3	1406.8	1400.1	1380.2	1312.1	1229.2	1140.6	1060.2	981.7	914.6	907.0
40°	1385.6	1365.3	1360.2	1342.5	1275.7	1187.8	1095.0	1010.5	929.8	867.5	856.7
42.5°	1336.8	1317.8	1315.0	1296.6	1230.8	1141.9	1045.7	958.9	875.7	815.6	804.8
45°	1281.4	1263.1	1262.4	1245.0	1181.7	1090.9	993.7	906.7	822.8	760.5	754.8
47.5°	1220.3	1203.9	1203.9	1187.8	1127.0	1034.9	940.3	852.3	769.7	714.6	704.5
50°	1153.9	1138.4	1133.6	1125.7	1066.5	973.8	883.9	799.1	717.1	664.6	654.8
52.5°	1083.0	1069.7	1072.9	1058.3	1001.0	910.2	827.0	739.3	664.3	616.5	606.7
55°	1008.3	989.3	992.2	986.8	932.7	844.7	763.0	689.9	612.4	567.4	558.3
57.5°	930.8	906.1	916.2	913.0	859.9	777.6	704.5	633.9	560.8	519.3	510.5
60°	851.3	827.6	838.0	835.2	785.2	710.5	644.0	578.5	509.5	471.9	463.0
62.5°	769.7	747.8	757.3	755.1	709.2	641.8	583.9	523.8	457.9	424.1	415.9
65°	687.4	666.5	675.1	673.5	631.1	579.8	522.2	467.1	406.0	376.6	368.4
67.5°	603.2	583.9	591.8	591.8	552.9	503.8	460.2	409.8	355.1	329.8	322.2
70°	519.7	501.6	508.6	508.0	475.0	435.2	397.5	352.6	303.5	282.6	276.3
72.5°	435.5	419.7	426.0	425.4	397.8	372.2	334.8	295.9	253.2	236.4	230.7
75°	353.8	339.0	345.0	344.3	321.9	297.8	272.8	240.5	203.8	192.1	186.4
77.5°	276.0	260.8	265.8	265.8	249.4	232.0	212.0	187.0	161.1	148.4	144.3
80°	201.3	194.0	191.5	191.8	180.7	169.3	159.2	135.1	116.1	107.6	104.8
82.5°	132.3	126.3	123.7	124.4	118.0	111.1	104.8	88.0	75.3	70.3	68.7
85°	70.3	65.8	63.6	65.2	63.9	60.1	57.0	45.6	37.7	35.8	34.8
87.5°	22.2	19.3	17.7	23.4	19.9	17.7	17.1	13.6	10.4	10.4	10.1
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°	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8
2.5°	1354.9	1354.9	1342.5	1339.7	1338.4	1340.0	1327.6	1325.4	1343.1	1337.1	1323.5
5°	1344.1	1343.5	1326.1	1322.9	1322.9	1321.0	1307.1	1303.9	1321.6	1316.6	1301.7
7.5°	1330.8	1328.9	1308.3	1306.1	1303.0	1301.7	1286.2	1284.0	1299.2	1296.0	1282.1
10°	1314.7	1312.8	1288.4	1286.8	1283.3	1280.8	1266.2	1264.7	1280.2	1275.1	1264.0
12.5°	1293.5	1290.0	1265.0	1263.4	1260.5	1259.6	1245.4	1244.7	1261.8	1256.7	1245.0
15°	1265.6	1262.8	1234.9	1235.5	1235.9	1235.9	1224.5	1223.8	1240.6	1238.4	1225.7
17.5°	1234.9	1231.1	1204.5	1206.4	1208.6	1211.2	1202.3	1203.9	1221.6	1218.8	1207.4
20°	1200.1	1196.3	1170.3	1175.7	1180.5	1185.5	1179.8	1184.3	1200.7	1199.5	1190.9
22.5°	1161.2	1157.4	1133.3	1141.5	1149.5	1159.0	1156.4	1161.5	1178.9	1178.6	1171.0
25°	1113.7	1114.6	1093.4	1103.6	1116.9	1130.2	1131.1	1139.3	1158.6	1156.7	1149.8
27.5°	1069.4	1070.7	1048.2	1065.3	1083.0	1100.1	1104.2	1115.6	1135.2	1133.6	1127.6
30°	1022.9	1024.4	1002.6	1026.0	1047.6	1068.4	1077.3	1092.8	1112.7	1112.7	1106.4
32.5°	974.4	977.3	954.5	985.8	1010.8	1035.2	1050.7	1066.9	1089.6	1089.0	1083.6
35°	924.8	927.9	907.0	946.9	971.9	1001.7	1021.0	1042.5	1062.7	1063.1	1058.9
37.5°	874.1	877.9	858.9	902.6	931.1	966.2	990.9	1012.4	1034.9	1036.2	1032.4
40°	823.8	827.9	811.5	853.5	889.6	928.9	957.4	982.7	1007.4	1008.0	1005.5
42.5°	773.5	777.9	765.6	806.7	847.5	889.6	923.2	952.0	977.3	978.9	976.0
45°	724.4	728.2	719.4	764.3	803.5	849.4	888.0	920.6	946.3	948.5	947.5
47.5°	675.7	679.2	671.3	712.4	757.7	806.4	851.0	887.1	914.3	916.8	916.2
50°	627.9	630.7	622.2	665.2	710.2	762.1	808.6	850.4	880.8	883.3	883.0
52.5°	580.4	583.3	576.0	621.3	662.1	716.8	767.5	812.7	842.8	846.6	847.2
55°	534.5	535.8	530.1	573.5	613.0	670.3	728.5	772.5	802.6	805.8	807.7
57.5°	488.6	489.0	484.2	525.7	563.7	622.2	683.3	729.5	758.0	761.1	764.0
60°	443.1	442.8	437.4	477.6	514.0	571.9	635.5	681.4	708.9	711.8	715.6
62.5°	397.8	396.9	392.1	429.1	463.3	520.6	584.5	628.8	655.1	657.0	662.1
65°	352.9	351.9	347.5	381.7	412.7	467.4	530.1	572.2	595.9	598.5	597.5
67.5°	308.6	306.7	303.2	333.9	362.1	412.7	472.8	513.0	532.6	534.9	540.9
70°	264.3	262.0	254.1	286.7	311.4	356.7	412.7	448.5	464.9	467.1	466.2
72.5°	220.6	218.4	209.8	239.9	260.8	300.3	350.3	380.1	394.3	396.2	396.2
75°	178.2	176.9	171.5	194.3	211.7	244.0	286.4	311.1	322.2	324.4	323.8
77.5°	137.4	136.4	131.0	150.6	164.3	188.3	222.5	241.8	250.0	252.6	257.9
80°	98.4	98.1	89.6	108.9	114.9	135.1	160.1	175.0	179.4	182.9	186.7
82.5°	63.0	63.3	54.8	71.2	73.7	86.7	102.2	111.4	114.6	117.4	120.3
85°	30.7	32.0	27.2	37.7	38.0	44.6	51.3	54.8	56.0	58.2	60.8
87.5°	7.9	9.2	5.1	10.8	9.5	12.3	14.2	15.2	14.9	16.5	17.4
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°	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8
2.5°	1328.0	1338.1	1333.0	1349.5	1355.8	1345.7	1363.4	1363.7	1351.1	1365.9	1374.2
5°	1307.4	1317.8	1314.7	1331.8	1339.7	1330.8	1352.3	1356.4	1344.1	1360.9	1374.2
7.5°	1286.5	1298.8	1294.7	1312.1	1321.6	1314.7	1337.8	1344.4	1334.9	1353.3	1371.0
10°	1268.5	1278.9	1274.5	1292.8	1301.1	1295.4	1318.1	1330.5	1321.6	1344.1	1365.3
12.5°	1250.7	1259.3	1254.2	1269.4	1277.3	1270.0	1297.9	1309.3	1303.0	1326.4	1353.6
15°	1227.9	1237.4	1230.5	1244.1	1250.1	1243.8	1266.6	1286.2	1278.3	1303.9	1334.0
17.5°	1210.5	1215.9	1206.4	1217.2	1220.7	1212.1	1235.2	1254.5	1248.8	1276.7	1311.5
20°	1191.2	1195.7	1182.4	1188.4	1188.1	1177.3	1198.5	1217.5	1213.7	1244.4	1284.0
22.5°	1169.7	1171.9	1156.4	1157.7	1157.1	1139.3	1158.3	1177.6	1176.0	1207.1	1251.4
25°	1146.9	1147.2	1127.3	1126.7	1119.7	1098.8	1115.6	1137.4	1132.7	1166.2	1212.8
27.5°	1124.5	1121.3	1097.2	1091.5	1080.5	1055.5	1070.3	1090.0	1087.1	1120.0	1171.6
30°	1100.4	1096.3	1066.9	1056.4	1040.3	1011.5	1023.8	1042.2	1043.8	1072.6	1126.7
32.5°	1077.6	1067.2	1034.6	1019.4	999.1	965.6	972.2	990.9	993.4	1022.5	1078.2
35°	1048.2	1041.2	1001.0	975.1	955.1	918.4	925.4	938.4	942.2	970.6	1027.3
37.5°	1020.3	1009.3	966.5	934.9	909.2	870.6	872.5	885.8	889.6	918.4	974.4
40°	991.5	975.7	929.8	892.8	863.4	822.8	820.6	834.6	837.4	865.6	916.2
42.5°	960.8	941.8	890.3	849.8	815.9	774.7	770.3	782.3	785.5	813.0	862.7
45°	929.8	907.0	849.8	805.4	768.4	726.3	721.9	731.1	735.8	761.8	809.6
47.5°	896.9	870.3	808.0	758.6	720.3	678.2	672.8	682.0	685.8	711.4	756.7
50°	862.4	830.1	764.9	710.5	672.5	631.1	623.2	633.9	637.4	661.4	705.8
52.5°	824.4	788.7	719.0	662.1	624.1	584.5	575.0	585.5	589.6	613.0	653.8
55°	784.2	745.6	672.8	617.5	576.3	537.7	529.8	533.9	542.8	564.9	602.9
57.5°	739.0	700.7	624.1	567.8	528.2	491.2	484.5	488.3	496.6	518.1	552.3
60°	690.9	650.4	574.4	518.1	479.8	444.7	438.6	442.1	451.0	470.6	502.3
62.5°	643.4	597.8	523.1	467.1	432.3	399.7	398.1	396.9	405.1	424.1	451.9
65°	585.8	542.1	469.7	416.5	384.8	355.4	349.1	351.9	359.8	377.2	406.4
67.5°	524.1	484.5	414.9	365.9	337.7	311.4	306.0	307.3	315.5	330.7	356.0
70°	458.6	423.8	358.9	314.9	291.2	266.5	263.0	263.3	271.2	284.5	306.7
72.5°	389.9	358.6	302.2	264.6	245.0	227.2	224.1	220.3	227.5	238.9	257.9
75°	320.0	292.4	245.9	215.2	199.7	184.8	182.0	178.2	185.5	195.3	210.1
77.5°	249.4	227.2	191.2	167.4	155.4	144.3	141.8	137.7	144.9	152.2	163.9
80°	180.4	164.3	142.7	117.7	113.6	106.3	103.8	99.4	106.3	111.1	119.9
82.5°	116.5	105.7	93.4	76.0	75.3	69.9	68.7	63.6	69.9	72.8	79.4
85°	58.9	53.8	50.6	38.6	39.9	36.4	36.1	30.7	35.8	37.0	40.8
87.5°	16.8	17.7	15.8	9.5	12.0	11.4	11.4	8.2	11.4	11.4	13.0
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: P838219

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-1HI-40-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8
2.5°	1358.0	1363.4	1364.7	1364.3	1367.8	1386.8	1380.5	1386.8
5°	1361.2	1373.2	1376.4	1380.8	1386.5	1408.0	1401.1	1408.7
7.5°	1363.1	1381.1	1388.1	1396.6	1405.8	1429.9	1424.2	1431.8
10°	1363.1	1386.5	1396.6	1410.9	1423.2	1451.1	1445.7	1454.5
12.5°	1357.4	1387.5	1401.7	1421.6	1437.5	1467.5	1465.3	1471.6
15°	1345.7	1382.7	1402.3	1428.0	1447.6	1481.1	1480.2	1487.8
17.5°	1329.9	1374.5	1398.2	1430.5	1455.2	1492.8	1495.1	1499.2
20°	1309.9	1359.0	1390.0	1429.5	1460.6	1502.0	1504.9	1510.6
22.5°	1283.6	1340.3	1377.6	1425.4	1461.2	1505.8	1510.9	1516.3
25°	1252.6	1317.8	1361.5	1417.5	1458.0	1505.5	1512.5	1517.2
27.5°	1217.2	1288.7	1340.9	1404.9	1449.2	1500.4	1509.0	1514.7
30°	1176.0	1257.7	1317.5	1388.4	1437.1	1490.9	1500.1	1505.8
32.5°	1133.6	1223.5	1289.7	1367.2	1419.7	1475.7	1483.7	1488.1
35°	1087.4	1182.1	1256.1	1340.0	1397.3	1451.4	1457.4	1462.1
37.5°	1037.1	1137.1	1217.8	1309.3	1365.6	1417.5	1422.9	1428.3
40°	985.2	1090.0	1174.8	1271.6	1328.0	1376.1	1381.8	1385.6
42.5°	933.0	1037.7	1128.9	1227.3	1283.3	1329.5	1333.0	1336.8
45°	880.1	983.6	1077.3	1178.3	1233.6	1277.0	1278.3	1281.4
47.5°	826.3	927.6	1020.7	1122.2	1177.0	1216.6	1217.8	1220.3
50°	772.2	871.6	960.2	1061.8	1115.3	1157.1	1151.4	1153.9
52.5°	719.0	812.7	903.2	996.6	1049.5	1086.5	1088.1	1083.0
55°	666.8	755.1	838.4	928.2	978.6	1007.4	1006.4	1008.3
57.5°	614.0	696.9	773.2	855.4	904.5	931.7	937.4	930.8
60°	560.2	638.0	706.4	780.8	828.2	851.0	857.7	851.3
62.5°	506.7	578.2	640.2	705.1	749.1	777.3	776.6	769.7
65°	453.2	518.1	573.5	628.5	666.8	695.0	693.7	687.4
67.5°	403.8	457.3	507.0	551.6	584.9	604.2	610.8	603.2
70°	349.4	395.6	439.3	475.0	502.6	520.0	526.3	519.7
72.5°	295.0	334.2	364.9	399.4	420.6	435.2	441.8	435.5
75°	241.2	273.4	298.4	325.3	340.2	352.6	360.2	353.8
77.5°	188.9	213.9	233.9	253.5	270.6	273.4	280.1	276.0
80°	139.3	157.3	171.8	184.8	197.2	198.4	203.8	201.3
82.5°	92.7	104.8	108.6	122.2	130.1	128.8	134.2	132.3
85°	49.1	56.3	63.0	67.1	71.5	67.4	72.2	70.3
87.5°	16.5	17.4	15.2	21.5	23.7	20.3	23.1	22.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)