

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: P837833

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-5LO-20-120-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: P837833
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-LD4-5LO-20-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 2000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

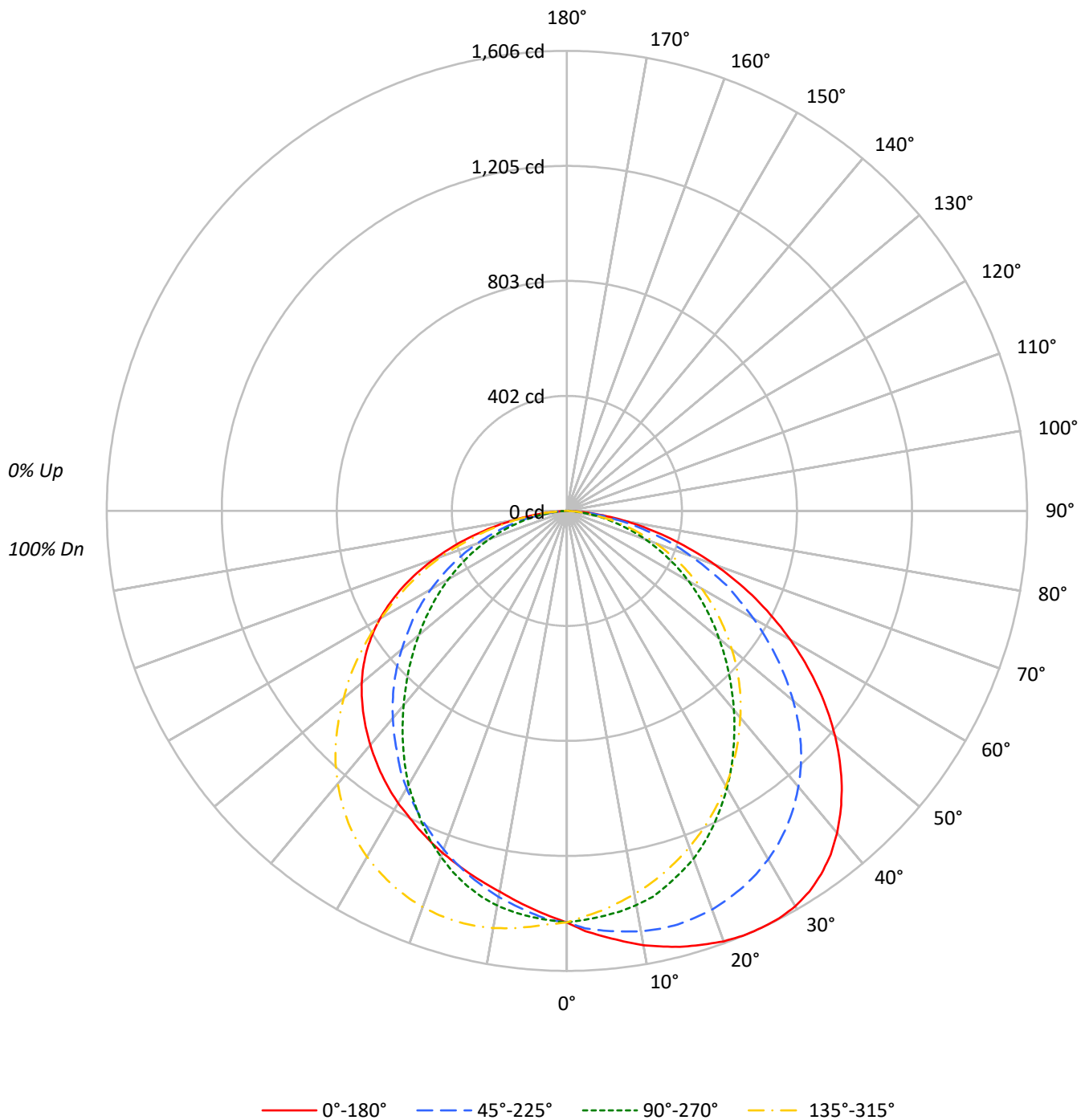
Lumens per Lamp: N/A
Luminaire Lumens: 4214.1 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 58.5
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	94	97	94	91		94	91	89		90
2	99	91	84	78	96	89	82	77	85	80	75		82	77	73		79
3	90	79	71	65	88	78	70	64	75	68	63		72	66	62		69
4	82	70	61	55	80	69	61	54	66	59	53		64	58	53		62
5	76	63	54	47	74	62	53	47	59	52	46		57	51	46		56
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	36		47	40	35		46
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		42
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	3865	3865	3865	3865
5°	4028	3837	3765	3844
10°	4208	3818	3689	3823
15°	4388	3769	3652	3770
20°	4580	3701	3636	3680
25°	4769	3597	3636	3560
30°	4954	3472	3660	3434
35°	5085	3329	3697	3277
40°	5153	3186	3749	3114
45°	5163	3041	3821	2965
50°	5114	2902	3915	2825
55°	5008	2773	4002	2696
60°	4851	2638	4055	2569
65°	4634	2483	4034	2426
70°	4329	2301	3891	2259
75°	3895	2051	3570	2041
80°	3302	1719	3002	1745
85°	2297	1139	1902	1170

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.4	3.2
10°-20°	394.9	9.4
20°-30°	605.2	14.4
30°-40°	735.9	17.5
40°-50°	765.0	18.2
50°-60°	691.0	16.4
60°-70°	525.4	12.5
70°-80°	292.9	7.0
80°-90°	67.4	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°	1136.5	27.0
0°-40°	1872.4	44.4
0°-60°	3328.4	79.0
0°-90°	4214.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4214.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1436	1436	1436	1436	1436	
5°	1491	1421	1394	1423	1491	144
15°	1575	1353	1311	1353	1575	447
25°	1606	1212	1225	1199	1606	742
35°	1548	1014	1125	997	1548	967
45°	1357	799	1004	779	1357	1044
55°	1068	591	853	575	1068	953
65°	728	390	634	381	728	719
75°	375	197	343	196	375	398
85°	74	37	62	38	74	94
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°	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4
2.5°	1468.2	1446.7	1447.1	1465.8	1451.4	1458.5	1438.4	1446.1	1443.7	1445.4	1429.0
5°	1491.3	1468.2	1467.8	1483.9	1467.8	1470.9	1445.4	1450.4	1443.1	1438.4	1420.6
7.5°	1515.8	1492.6	1490.3	1504.4	1483.3	1480.9	1452.8	1452.8	1439.4	1427.6	1410.9
10°	1539.9	1516.1	1513.1	1523.8	1497.7	1490.0	1455.8	1450.4	1432.7	1415.2	1397.2
12.5°	1558.0	1533.9	1531.5	1538.2	1508.7	1494.7	1455.8	1445.4	1419.3	1394.8	1380.7
15°	1575.1	1550.3	1543.9	1547.3	1513.4	1494.7	1451.1	1435.0	1401.5	1369.3	1352.9
17.5°	1587.1	1563.3	1557.0	1556.6	1515.8	1489.0	1441.0	1418.9	1378.7	1339.9	1323.4
20°	1599.2	1575.4	1567.4	1561.3	1515.1	1481.3	1426.3	1396.5	1349.6	1306.0	1292.3
22.5°	1605.2	1580.8	1572.0	1563.0	1510.7	1467.2	1408.2	1370.3	1316.7	1264.8	1253.4
25°	1606.2	1581.1	1571.7	1558.6	1502.0	1450.4	1384.8	1338.9	1278.9	1221.3	1211.5
27.5°	1603.5	1576.1	1566.7	1550.9	1489.0	1430.0	1356.9	1303.0	1238.7	1175.0	1164.6
30°	1594.2	1566.4	1557.3	1536.9	1470.5	1404.9	1326.5	1263.1	1194.1	1126.4	1117.4
32.5°	1575.4	1548.3	1540.9	1520.5	1450.4	1375.7	1290.9	1220.2	1144.9	1080.2	1066.8
35°	1547.9	1520.8	1516.1	1494.7	1422.3	1340.9	1252.1	1173.3	1092.6	1026.6	1013.5
37.5°	1512.1	1489.3	1482.3	1461.1	1389.1	1301.3	1207.5	1122.4	1039.3	968.3	960.2
40°	1466.8	1445.4	1440.0	1421.3	1350.6	1257.4	1159.3	1069.8	984.4	918.4	907.0
42.5°	1415.2	1395.1	1392.1	1372.7	1303.0	1208.9	1107.0	1015.2	927.1	863.4	852.0
45°	1356.6	1337.2	1336.5	1318.1	1251.1	1154.9	1052.1	959.9	871.1	805.1	799.1
47.5°	1291.9	1274.5	1274.5	1257.4	1193.1	1095.6	995.4	902.3	814.8	756.5	745.8
50°	1221.6	1205.2	1200.1	1191.8	1129.1	1030.9	935.8	846.0	759.2	703.6	693.2
52.5°	1146.5	1132.5	1135.8	1120.4	1059.8	963.6	875.5	782.7	703.3	652.7	642.3
55°	1067.5	1047.4	1050.4	1044.7	987.4	894.2	807.8	730.4	648.3	600.7	591.0
57.5°	985.4	959.2	970.0	966.6	910.3	823.2	745.8	671.1	593.7	549.8	540.4
60°	901.3	876.2	887.2	884.2	831.3	752.2	681.8	612.5	539.4	499.6	490.2
62.5°	814.8	791.7	801.8	799.4	750.8	679.5	618.2	554.5	484.8	449.0	440.3
65°	727.7	705.6	714.7	713.0	668.1	613.8	552.8	494.5	429.9	398.7	390.0
67.5°	638.6	618.2	626.5	626.5	585.3	533.4	487.2	433.9	375.9	349.1	341.1
70°	550.2	531.1	538.4	537.8	502.9	460.7	420.8	373.2	321.3	299.2	292.5
72.5°	461.0	444.3	451.0	450.3	421.2	394.0	354.5	313.3	268.0	250.3	244.3
75°	374.6	358.8	365.2	364.5	340.7	315.3	288.8	254.6	215.8	203.4	197.3
77.5°	292.2	276.1	281.4	281.4	264.0	245.6	224.5	198.0	170.5	157.1	152.8
80°	213.1	205.4	202.7	203.0	191.3	179.3	168.5	143.1	123.0	113.9	110.9
82.5°	140.1	133.7	131.0	131.7	125.0	117.6	110.9	93.1	79.7	74.4	72.7
85°	74.4	69.7	67.3	69.0	67.7	63.7	60.3	48.2	39.9	37.9	36.9
87.5°	23.5	20.4	18.8	24.8	21.1	18.8	18.1	14.4	11.1	11.1	10.7
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°	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4
2.5°	1434.3	1434.3	1421.3	1418.3	1416.9	1418.6	1405.5	1403.2	1421.9	1415.6	1401.2
5°	1423.0	1422.3	1403.9	1400.5	1400.5	1398.5	1383.8	1380.4	1399.2	1393.8	1378.1
7.5°	1408.9	1406.9	1385.1	1382.7	1379.4	1378.1	1361.6	1359.3	1375.4	1372.0	1357.3
10°	1391.8	1389.8	1364.0	1362.3	1358.6	1355.9	1340.5	1338.9	1355.3	1349.9	1338.2
12.5°	1369.3	1365.7	1339.2	1337.5	1334.5	1333.5	1318.4	1317.7	1335.8	1330.5	1318.1
15°	1339.9	1336.8	1307.4	1308.0	1308.4	1308.4	1296.3	1295.6	1313.4	1311.0	1297.6
17.5°	1307.4	1303.3	1275.2	1277.2	1279.6	1282.2	1272.9	1274.5	1293.3	1290.3	1278.2
20°	1270.5	1266.5	1239.0	1244.7	1249.7	1255.1	1249.1	1253.8	1271.2	1269.8	1260.8
22.5°	1229.3	1225.3	1199.8	1208.5	1216.9	1226.9	1224.3	1229.6	1248.1	1247.7	1239.7
25°	1179.0	1180.0	1157.6	1168.3	1182.4	1196.5	1197.5	1206.2	1226.6	1224.6	1217.2
27.5°	1132.1	1133.5	1109.7	1127.8	1146.5	1164.6	1169.0	1181.0	1201.8	1200.1	1193.8
30°	1082.9	1084.6	1061.4	1086.2	1109.0	1131.1	1140.5	1156.9	1178.0	1178.0	1171.3
32.5°	1031.6	1034.6	1010.5	1043.7	1070.1	1095.9	1112.4	1129.4	1153.6	1152.9	1147.2
35°	979.0	982.4	960.2	1002.5	1028.9	1060.4	1080.9	1103.7	1125.1	1125.4	1121.1
37.5°	925.4	929.4	909.3	955.6	985.7	1022.9	1049.0	1071.8	1095.6	1096.9	1092.9
40°	872.1	876.5	859.1	903.6	941.8	983.4	1013.5	1040.3	1066.5	1067.1	1064.5
42.5°	818.9	823.6	810.5	854.0	897.3	941.8	977.3	1007.8	1034.6	1036.3	1033.3
45°	766.9	770.9	761.6	809.1	850.7	899.3	940.1	974.7	1001.8	1004.1	1003.1
47.5°	715.3	719.0	710.6	754.2	802.1	853.7	900.9	939.1	968.0	970.6	970.0
50°	664.7	667.8	658.7	704.3	751.8	806.8	856.0	900.3	932.4	935.1	934.8
52.5°	614.5	617.5	609.8	657.7	700.9	758.9	812.5	860.4	892.2	896.3	896.9
55°	565.9	567.2	561.2	607.1	649.0	709.6	771.3	817.9	849.7	853.0	855.0
57.5°	517.3	517.7	512.6	556.5	596.7	658.7	723.4	772.3	802.4	805.8	808.8
60°	469.1	468.7	463.0	505.6	544.1	605.4	672.8	721.4	750.5	753.5	757.5
62.5°	421.2	420.2	415.1	454.3	490.5	551.2	618.8	665.7	693.6	695.6	700.9
65°	373.6	372.6	367.9	404.1	436.9	494.9	561.2	605.8	630.9	633.6	632.6
67.5°	326.7	324.7	321.0	353.5	383.3	436.9	500.6	543.1	563.9	566.2	572.6
70°	279.8	277.4	269.0	303.6	329.7	377.6	436.9	474.8	492.2	494.5	493.5
72.5°	233.5	231.2	222.1	254.0	276.1	318.0	370.9	402.4	417.5	419.5	419.5
75°	188.6	187.3	181.6	205.7	224.1	258.3	303.2	329.4	341.1	343.4	342.8
77.5°	145.4	144.4	138.7	159.5	173.9	199.4	235.5	256.0	264.7	267.4	273.1
80°	104.2	103.9	94.8	115.3	121.6	143.1	169.5	185.3	190.0	193.7	197.7
82.5°	66.7	67.0	58.0	75.4	78.1	91.8	108.2	117.9	121.3	124.3	127.3
85°	32.5	33.8	28.8	39.9	40.2	47.2	54.3	58.0	59.3	61.6	64.3
87.5°	8.4	9.7	5.4	11.4	10.1	13.1	15.1	16.1	15.7	17.4	18.4
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°	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4
2.5°	1405.9	1416.6	1411.2	1428.6	1435.3	1424.6	1443.4	1443.7	1430.3	1446.1	1454.8
5°	1384.1	1395.1	1391.8	1409.9	1418.3	1408.9	1431.7	1436.0	1423.0	1440.7	1454.8
7.5°	1362.0	1375.0	1370.7	1389.1	1399.2	1391.8	1416.3	1423.3	1413.2	1432.7	1451.4
10°	1342.9	1353.9	1349.2	1368.7	1377.4	1371.4	1395.5	1408.5	1399.2	1423.0	1445.4
12.5°	1324.1	1333.2	1327.8	1343.9	1352.3	1344.6	1374.0	1386.1	1379.4	1404.2	1433.0
15°	1300.0	1310.0	1302.7	1317.1	1323.4	1316.7	1340.9	1361.6	1353.3	1380.4	1412.2
17.5°	1281.6	1287.3	1277.2	1288.6	1292.3	1283.2	1307.7	1328.1	1322.1	1351.6	1388.4
20°	1261.1	1265.8	1251.7	1258.1	1257.8	1246.4	1268.8	1288.9	1284.9	1317.4	1359.3
22.5°	1238.3	1240.7	1224.3	1225.6	1224.9	1206.2	1226.3	1246.7	1245.0	1277.9	1324.8
25°	1214.2	1214.6	1193.4	1192.8	1185.4	1163.3	1181.0	1204.2	1199.1	1234.7	1283.9
27.5°	1190.4	1187.1	1161.6	1155.6	1143.9	1117.4	1133.1	1153.9	1150.9	1185.7	1240.4
30°	1165.0	1160.6	1129.4	1118.4	1101.3	1070.8	1083.9	1103.3	1105.0	1135.5	1192.8
32.5°	1140.8	1129.8	1095.3	1079.2	1057.7	1022.2	1029.3	1049.0	1051.7	1082.5	1141.5
35°	1109.7	1102.3	1059.8	1032.3	1011.2	972.3	979.7	993.4	997.4	1027.6	1087.6
37.5°	1080.2	1068.5	1023.2	989.7	962.6	921.7	923.7	937.8	941.8	972.3	1031.6
40°	1049.7	1033.0	984.4	945.2	914.0	871.1	868.8	883.5	886.5	916.4	970.0
42.5°	1017.2	997.1	942.5	899.6	863.8	820.2	815.5	828.2	831.6	860.7	913.3
45°	984.4	960.2	899.6	852.7	813.5	768.9	764.2	774.0	779.0	806.5	857.1
47.5°	949.5	921.4	855.4	803.1	762.6	718.0	712.3	722.0	726.1	753.2	801.1
50°	913.0	878.8	809.8	752.2	712.0	668.1	659.7	671.1	674.8	700.3	747.2
52.5°	872.8	834.9	761.2	700.9	660.7	618.8	608.8	619.8	624.2	649.0	692.2
55°	830.3	789.4	712.3	653.7	610.1	569.2	560.9	565.2	574.6	598.1	638.3
57.5°	782.3	741.8	660.7	601.1	559.2	520.0	513.0	517.0	525.7	548.5	584.7
60°	731.4	688.5	608.1	548.5	507.9	470.7	464.4	468.1	477.4	498.2	531.7
62.5°	681.2	632.9	553.8	494.5	457.7	423.2	421.5	420.2	428.9	449.0	478.4
65°	620.2	573.9	497.2	440.9	407.4	376.3	369.6	372.6	381.0	399.4	430.2
67.5°	554.8	513.0	439.2	387.3	357.5	329.7	324.0	325.3	334.0	350.1	376.9
70°	485.5	448.6	379.9	333.4	308.2	282.1	278.4	278.8	287.1	301.2	324.7
72.5°	412.8	379.6	320.0	280.1	259.3	240.6	237.2	233.2	240.9	253.0	273.1
75°	338.7	309.6	260.3	227.8	211.4	195.7	192.7	188.6	196.3	206.7	222.5
77.5°	264.0	240.6	202.4	177.2	164.5	152.8	150.1	145.7	153.5	161.2	173.6
80°	191.0	173.9	151.1	124.6	120.3	112.6	109.9	105.2	112.6	117.6	127.0
82.5°	123.3	111.9	98.8	80.4	79.7	74.0	72.7	67.3	74.0	77.1	84.1
85°	62.3	57.0	53.6	40.9	42.2	38.5	38.2	32.5	37.9	39.2	43.2
87.5°	17.8	18.8	16.8	10.1	12.7	12.1	12.1	8.7	12.1	12.1	13.7
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: P837833

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-5LO-20-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4
2.5°	1437.7	1443.4	1444.7	1444.4	1448.1	1468.2	1461.5	1468.2
5°	1441.0	1453.8	1457.1	1461.8	1467.8	1490.6	1483.3	1491.3
7.5°	1443.1	1462.2	1469.5	1478.6	1488.3	1513.8	1507.7	1515.8
10°	1443.1	1467.8	1478.6	1493.6	1506.7	1536.2	1530.5	1539.9
12.5°	1437.0	1468.9	1483.9	1505.0	1521.8	1553.6	1551.3	1558.0
15°	1424.6	1463.8	1484.6	1511.7	1532.5	1568.0	1567.0	1575.1
17.5°	1407.9	1455.1	1480.2	1514.4	1540.6	1580.4	1582.8	1587.1
20°	1386.8	1438.7	1471.5	1513.4	1546.3	1590.1	1593.2	1599.2
22.5°	1359.0	1418.9	1458.5	1509.1	1546.9	1594.2	1599.5	1605.2
25°	1326.1	1395.1	1441.4	1500.7	1543.6	1593.8	1601.2	1606.2
27.5°	1288.6	1364.3	1419.6	1487.3	1534.2	1588.5	1597.5	1603.5
30°	1245.0	1331.5	1394.8	1469.9	1521.5	1578.4	1588.1	1594.2
32.5°	1200.1	1295.3	1365.3	1447.4	1503.0	1562.3	1570.7	1575.4
35°	1151.2	1251.4	1329.8	1418.6	1479.2	1536.5	1542.9	1547.9
37.5°	1098.0	1203.8	1289.3	1386.1	1445.7	1500.7	1506.4	1512.1
40°	1043.0	1153.9	1243.7	1346.2	1405.9	1456.8	1462.8	1466.8
42.5°	987.7	1098.6	1195.1	1299.3	1358.6	1407.5	1411.2	1415.2
45°	931.8	1041.3	1140.5	1247.4	1306.0	1351.9	1353.3	1356.6
47.5°	874.8	982.0	1080.5	1188.1	1246.0	1287.9	1289.3	1291.9
50°	817.5	922.7	1016.5	1124.1	1180.7	1224.9	1218.9	1221.6
52.5°	761.2	860.4	956.2	1055.1	1111.0	1150.2	1151.9	1146.5
55°	705.9	799.4	887.5	982.7	1036.0	1066.5	1065.5	1067.5
57.5°	650.0	737.8	818.5	905.6	957.6	986.4	992.4	985.4
60°	593.0	675.5	747.8	826.6	876.8	900.9	908.0	901.3
62.5°	536.4	612.1	677.8	746.5	793.1	822.9	822.2	814.8
65°	479.8	548.5	607.1	665.4	705.9	735.8	734.4	727.7
67.5°	427.5	484.1	536.7	584.0	619.2	639.6	646.6	638.6
70°	369.9	418.8	465.0	502.9	532.1	550.5	557.2	550.2
72.5°	312.3	353.8	386.3	422.8	445.3	460.7	467.7	461.0
75°	255.3	289.5	316.0	344.4	360.2	373.2	381.3	374.6
77.5°	200.0	226.5	247.6	268.4	286.5	289.5	296.5	292.2
80°	147.4	166.5	181.9	195.7	208.7	210.1	215.8	213.1
82.5°	98.2	110.9	114.9	129.3	137.7	136.4	142.1	140.1
85°	51.9	59.6	66.7	71.0	75.7	71.4	76.4	74.4
87.5°	17.4	18.4	16.1	22.8	25.1	21.4	24.5	23.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)