

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: P837974

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-4LO-30-120-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: P837974
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-LD4-4LO-30-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

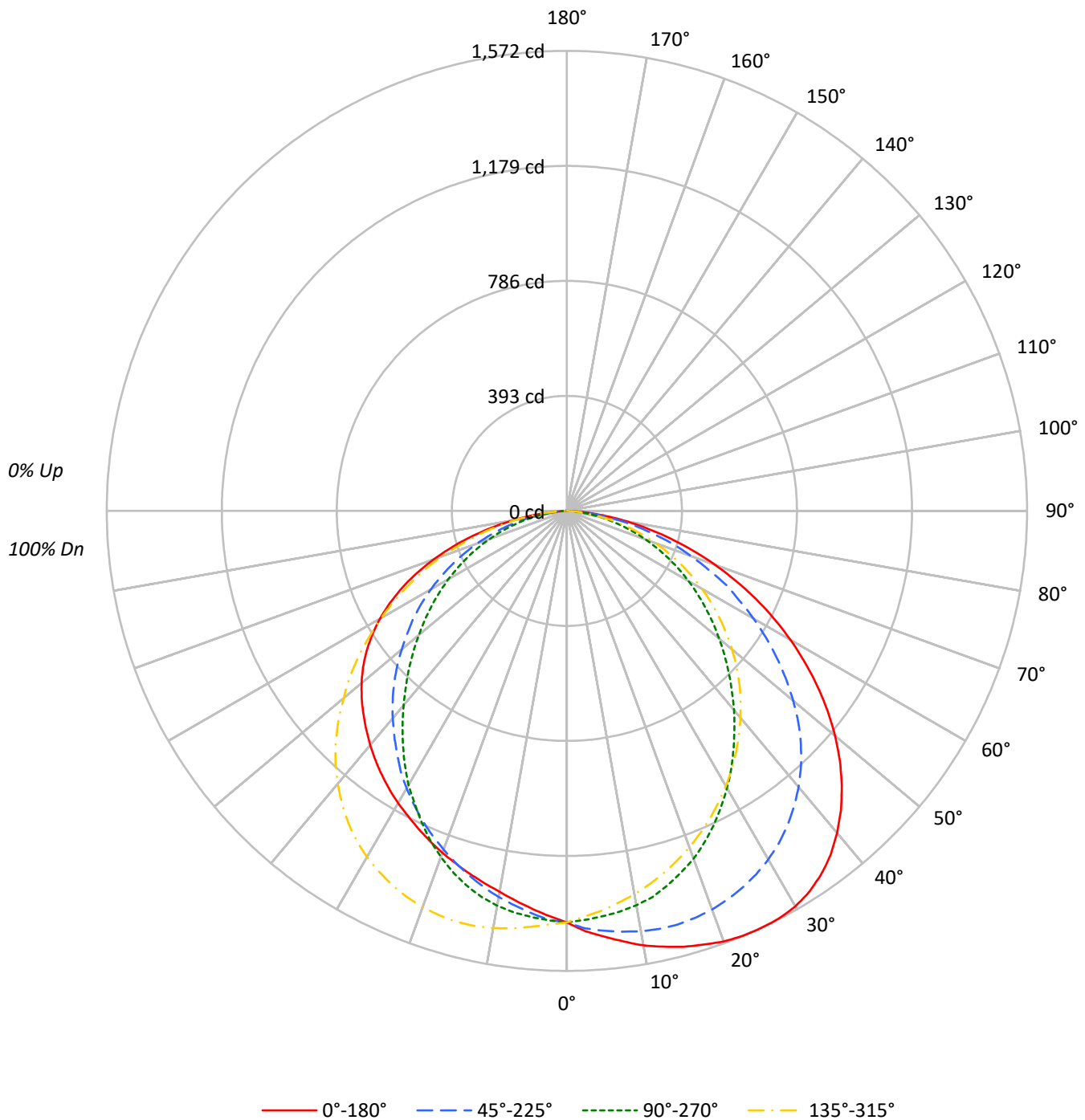
Lumens per Lamp: N/A
Luminaire Lumens: 4125.7 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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°	3784	3784	3784	3784
5°	3944	3757	3686	3763
10°	4120	3738	3611	3743
15°	4296	3690	3576	3691
20°	4484	3623	3560	3603
25°	4669	3522	3560	3486
30°	4850	3399	3584	3361
35°	4979	3260	3619	3208
40°	5045	3119	3670	3049
45°	5055	2977	3741	2903
50°	5007	2841	3833	2766
55°	4903	2715	3918	2639
60°	4749	2583	3970	2516
65°	4537	2431	3950	2375
70°	4238	2253	3810	2212
75°	3813	2009	3496	1998
80°	3233	1683	2938	1708
85°	2248	1115	1865	1145

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.5	3.2
10°-20°	386.6	9.4
20°-30°	592.5	14.4
30°-40°	720.5	17.5
40°-50°	749.0	18.2
50°-60°	676.5	16.4
60°-70°	514.3	12.5
70°-80°	286.7	7.0
80°-90°	66.0	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°	1112.6	27.0
0°-40°	1833.1	44.4
0°-60°	3258.6	79.0
0°-90°	4125.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4125.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1406	1406	1406	1406	1406	
5°	1460	1391	1365	1393	1460	141
15°	1542	1325	1284	1325	1542	437
25°	1572	1186	1199	1174	1572	726
35°	1516	992	1102	976	1516	947
45°	1328	782	983	763	1328	1023
55°	1045	579	835	563	1045	933
65°	712	382	620	373	712	704
75°	367	193	336	192	367	390
85°	73	36	60	37	73	92
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°	1406.2	1406.2	1406.2	1406.2	1406.2	1406.2	1406.2	1406.2	1406.2	1406.2	1406.2
2.5°	1437.4	1416.4	1416.7	1435.1	1421.0	1427.9	1408.2	1415.7	1413.4	1415.1	1399.0
5°	1460.0	1437.4	1437.1	1452.8	1437.1	1440.0	1415.1	1420.0	1412.8	1408.2	1390.8
7.5°	1484.0	1461.3	1459.0	1472.8	1452.2	1449.9	1422.3	1422.3	1409.2	1397.7	1381.3
10°	1507.6	1484.3	1481.4	1491.8	1466.3	1458.7	1425.3	1420.0	1402.6	1385.6	1367.9
12.5°	1525.3	1501.7	1499.4	1506.0	1477.1	1463.3	1425.3	1415.1	1389.5	1365.6	1351.8
15°	1542.0	1517.8	1511.5	1514.8	1481.7	1463.3	1420.7	1404.9	1372.1	1340.6	1324.6
17.5°	1553.8	1530.6	1524.3	1524.0	1484.0	1457.7	1410.8	1389.2	1349.8	1311.8	1295.7
20°	1565.7	1542.4	1534.5	1528.6	1483.3	1450.2	1396.4	1367.2	1321.3	1278.6	1265.2
22.5°	1571.6	1547.6	1539.1	1530.2	1479.1	1436.4	1378.7	1341.6	1289.1	1238.3	1227.1
25°	1572.5	1547.9	1538.8	1526.0	1470.5	1420.0	1355.7	1310.8	1252.1	1195.6	1186.1
27.5°	1569.9	1543.0	1533.8	1518.4	1457.7	1400.0	1328.5	1275.7	1212.7	1150.4	1140.2
30°	1560.7	1533.5	1524.6	1504.6	1439.7	1375.4	1298.6	1236.6	1169.1	1102.8	1094.0
32.5°	1542.4	1515.8	1508.6	1488.6	1420.0	1346.9	1263.9	1194.7	1120.9	1057.5	1044.4
35°	1515.5	1488.9	1484.3	1463.3	1392.5	1312.7	1225.8	1148.7	1069.7	1005.1	992.3
37.5°	1480.4	1458.1	1451.2	1430.5	1360.0	1274.0	1182.2	1098.9	1017.5	948.0	940.1
40°	1436.1	1415.1	1409.8	1391.5	1322.3	1231.1	1135.0	1047.4	963.7	899.1	888.0
42.5°	1385.6	1365.9	1362.9	1343.9	1275.7	1183.5	1083.8	993.9	907.6	845.3	834.2
45°	1328.2	1309.1	1308.5	1290.4	1224.8	1130.7	1030.0	939.8	852.9	788.2	782.3
47.5°	1264.9	1247.8	1247.8	1231.1	1168.1	1072.6	974.6	883.4	797.8	740.7	730.2
50°	1196.0	1179.9	1175.0	1166.8	1105.4	1009.3	916.2	828.3	743.3	688.8	678.7
52.5°	1122.5	1108.7	1112.0	1096.9	1037.5	943.4	857.1	766.3	688.5	639.0	628.8
55°	1045.1	1025.4	1028.4	1022.8	966.7	875.5	790.9	715.1	634.7	588.1	578.6
57.5°	964.7	939.1	949.6	946.3	891.2	806.0	730.2	657.0	581.3	538.3	529.1
60°	882.4	857.8	868.6	865.7	813.8	736.4	667.5	599.6	528.1	489.1	479.9
62.5°	797.8	775.1	785.0	782.7	735.1	665.2	605.2	542.9	474.6	439.6	431.0
65°	712.5	690.8	699.7	698.0	654.1	600.9	541.2	484.2	420.9	390.3	381.8
67.5°	625.2	605.2	613.4	613.4	573.1	522.2	476.9	424.8	368.0	341.8	333.9
70°	538.6	519.9	527.1	526.5	492.4	451.0	412.0	365.4	314.6	292.9	286.4
72.5°	451.4	435.0	441.5	440.9	412.3	385.8	347.0	306.7	262.4	245.0	239.1
75°	366.7	351.3	357.5	356.9	333.6	308.7	282.8	249.3	211.2	199.1	193.2
77.5°	286.0	270.3	275.5	275.5	258.5	240.4	219.8	193.9	167.0	153.8	149.6
80°	208.6	201.1	198.5	198.8	187.3	175.5	165.0	140.1	120.4	111.5	108.6
82.5°	137.1	130.9	128.3	128.9	122.4	115.1	108.6	91.2	78.1	72.8	71.2
85°	72.8	68.2	65.9	67.6	66.3	62.3	59.0	47.2	39.0	37.1	36.1
87.5°	23.0	20.0	18.4	24.3	20.7	18.4	17.7	14.1	10.8	10.8	10.5
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1406.2	1406.2	1406.2	1406.2	1406.2	1406.2	1406.2	1406.2	1406.2	1406.2	1406.2
2.5°	1404.3	1404.3	1391.5	1388.5	1387.2	1388.8	1376.1	1373.8	1392.1	1385.9	1371.8
5°	1393.1	1392.5	1374.4	1371.1	1371.1	1369.2	1354.7	1351.5	1369.8	1364.6	1349.2
7.5°	1379.3	1377.4	1356.0	1353.7	1350.5	1349.2	1333.1	1330.8	1346.5	1343.3	1328.8
10°	1362.6	1360.6	1335.4	1333.7	1330.1	1327.5	1312.4	1310.8	1326.9	1321.6	1310.1
12.5°	1340.6	1337.0	1311.1	1309.5	1306.5	1305.5	1290.8	1290.1	1307.8	1302.6	1290.4
15°	1311.8	1308.8	1279.9	1280.6	1280.9	1280.9	1269.1	1268.5	1285.8	1283.6	1270.4
17.5°	1279.9	1276.0	1248.5	1250.4	1252.7	1255.3	1246.2	1247.8	1266.2	1263.2	1251.4
20°	1243.9	1239.9	1213.0	1218.6	1223.5	1228.8	1222.9	1227.5	1244.5	1243.2	1234.3
22.5°	1203.5	1199.6	1174.6	1183.2	1191.4	1201.2	1198.6	1203.8	1221.9	1221.6	1213.7
25°	1154.3	1155.3	1133.3	1143.8	1157.6	1171.4	1172.4	1180.9	1200.9	1198.9	1191.7
27.5°	1108.4	1109.7	1086.4	1104.1	1122.5	1140.2	1144.5	1156.3	1176.6	1175.0	1168.7
30°	1060.2	1061.8	1039.2	1063.4	1085.8	1107.4	1116.6	1132.7	1153.3	1153.3	1146.8
32.5°	1010.0	1012.9	989.3	1021.8	1047.7	1073.0	1089.0	1105.8	1129.4	1128.7	1123.1
35°	958.5	961.8	940.1	981.4	1007.4	1038.2	1058.2	1080.5	1101.5	1101.8	1097.6
37.5°	906.0	909.9	890.3	935.5	965.0	1001.5	1027.0	1049.3	1072.6	1073.9	1070.0
40°	853.8	858.1	841.0	884.7	922.1	962.7	992.3	1018.5	1044.1	1044.8	1042.1
42.5°	801.7	806.3	793.5	836.1	878.4	922.1	956.8	986.7	1012.9	1014.6	1011.6
45°	750.8	754.8	745.6	792.2	832.8	880.4	920.4	954.2	980.8	983.1	982.1
47.5°	700.3	703.9	695.7	738.4	785.3	835.8	882.1	919.4	947.7	950.3	949.6
50°	650.8	653.7	644.9	689.5	736.1	789.9	838.1	881.4	912.9	915.5	915.2
52.5°	601.6	604.5	597.0	643.9	686.2	743.0	795.5	842.4	873.5	877.5	878.1
55°	554.0	555.3	549.4	594.4	635.4	694.8	755.1	800.7	831.9	835.1	837.1
57.5°	506.5	506.8	501.9	544.8	584.2	644.9	708.2	756.1	785.6	788.9	791.8
60°	459.2	458.9	453.3	495.0	532.7	592.7	658.7	706.2	734.8	737.7	741.7
62.5°	412.3	411.3	406.4	444.8	480.2	539.6	605.9	651.8	679.0	681.0	686.2
65°	365.7	364.8	360.2	395.6	427.7	484.5	549.4	593.1	617.7	620.3	619.3
67.5°	319.8	317.9	314.2	346.1	375.3	427.7	490.1	531.7	552.1	554.4	560.6
70°	273.9	271.6	263.4	297.2	322.8	369.7	427.7	464.8	481.9	484.2	483.2
72.5°	228.6	226.3	217.5	248.6	270.3	311.3	363.1	394.0	408.7	410.7	410.7
75°	184.7	183.4	177.8	201.4	219.4	252.9	296.9	322.4	333.9	336.2	335.6
77.5°	142.4	141.4	135.8	156.1	170.2	195.2	230.6	250.6	259.1	261.8	267.3
80°	102.0	101.7	92.8	112.8	119.1	140.1	166.0	181.4	186.0	189.6	193.5
82.5°	65.3	65.6	56.7	73.8	76.4	89.9	106.0	115.5	118.7	121.7	124.6
85°	31.8	33.1	28.2	39.0	39.4	46.3	53.1	56.7	58.1	60.4	63.0
87.5°	8.2	9.5	5.2	11.2	9.8	12.8	14.8	15.7	15.4	17.1	18.0
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1406.2	1406.2	1406.2	1406.2	1406.2	1406.2	1406.2	1406.2	1406.2	1406.2	1406.2
2.5°	1376.4	1386.9	1381.6	1398.7	1405.2	1394.8	1413.1	1413.4	1400.3	1415.7	1424.3
5°	1355.1	1365.9	1362.6	1380.3	1388.5	1379.3	1401.6	1405.9	1393.1	1410.5	1424.3
7.5°	1333.4	1346.2	1341.9	1360.0	1369.8	1362.6	1386.6	1393.4	1383.6	1402.6	1421.0
10°	1314.7	1325.5	1320.9	1340.0	1348.5	1342.6	1366.2	1379.0	1369.8	1393.1	1415.1
12.5°	1296.3	1305.2	1300.0	1315.7	1323.9	1316.4	1345.2	1357.0	1350.5	1374.7	1403.0
15°	1272.7	1282.6	1275.4	1289.5	1295.7	1289.1	1312.7	1333.1	1324.9	1351.5	1382.6
17.5°	1254.7	1260.3	1250.4	1261.6	1265.2	1256.3	1280.3	1300.3	1294.4	1323.2	1359.3
20°	1234.7	1239.3	1225.5	1231.7	1231.4	1220.2	1242.2	1261.9	1258.0	1289.8	1330.8
22.5°	1212.4	1214.7	1198.6	1199.9	1199.3	1180.9	1200.6	1220.6	1218.9	1251.1	1297.0
25°	1188.8	1189.1	1168.4	1167.8	1160.5	1138.9	1156.3	1178.9	1174.0	1208.8	1257.0
27.5°	1165.5	1162.2	1137.3	1131.3	1119.9	1094.0	1109.4	1129.7	1126.8	1160.9	1214.3
30°	1140.5	1136.3	1105.8	1094.9	1078.2	1048.4	1061.2	1080.2	1081.8	1111.7	1167.8
32.5°	1116.9	1106.1	1072.3	1056.6	1035.6	1000.8	1007.7	1027.0	1029.7	1059.8	1117.6
35°	1086.4	1079.2	1037.5	1010.6	990.0	951.9	959.1	972.6	976.5	1006.0	1064.8
37.5°	1057.5	1046.1	1001.8	969.0	942.4	902.4	904.4	918.1	922.1	951.9	1010.0
40°	1027.7	1011.3	963.7	925.4	894.8	852.9	850.6	865.0	867.9	897.1	949.6
42.5°	995.9	976.2	922.7	880.7	845.6	803.0	798.4	810.9	814.2	842.7	894.2
45°	963.7	940.1	880.7	834.8	796.4	752.8	748.2	757.7	762.7	789.6	839.1
47.5°	929.6	902.1	837.4	786.3	746.6	703.0	697.4	706.9	710.8	737.4	784.3
50°	893.9	860.4	792.8	736.4	697.0	654.1	645.9	657.0	660.6	685.6	731.5
52.5°	854.5	817.4	745.3	686.2	646.9	605.9	596.0	606.8	611.1	635.4	677.7
55°	812.8	772.8	697.4	640.0	597.3	557.3	549.1	553.4	562.6	585.5	624.9
57.5°	765.9	726.2	646.9	588.5	547.5	509.1	502.2	506.1	514.7	537.0	572.4
60°	716.1	674.1	595.4	537.0	497.3	460.9	454.6	458.2	467.4	487.8	520.6
62.5°	666.9	619.6	542.2	484.2	448.1	414.3	412.7	411.3	419.9	439.6	468.4
65°	607.2	561.9	486.8	431.7	398.9	368.4	361.8	364.8	373.0	391.0	421.2
67.5°	543.2	502.2	430.0	379.2	350.0	322.8	317.2	318.5	327.0	342.8	369.0
70°	475.3	439.2	372.0	326.4	301.8	276.2	272.6	272.9	281.1	294.9	317.9
72.5°	404.1	371.6	313.3	274.2	253.9	235.5	232.2	228.3	235.8	247.7	267.3
75°	331.6	303.1	254.9	223.1	207.0	191.6	188.6	184.7	192.2	202.4	217.8
77.5°	258.5	235.5	198.1	173.5	161.1	149.6	147.0	142.7	150.2	157.8	169.9
80°	187.0	170.2	147.9	122.0	117.8	110.2	107.6	103.0	110.2	115.1	124.3
82.5°	120.7	109.6	96.8	78.7	78.1	72.5	71.2	65.9	72.5	75.4	82.3
85°	61.0	55.8	52.5	40.0	41.3	37.7	37.4	31.8	37.1	38.4	42.3
87.5°	17.4	18.4	16.4	9.8	12.5	11.8	11.8	8.5	11.8	11.8	13.4
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: P837974

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-4LO-30-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1406.2	1406.2	1406.2	1406.2	1406.2	1406.2	1406.2	1406.2
2.5°	1407.5	1413.1	1414.4	1414.1	1417.7	1437.4	1430.8	1437.4
5°	1410.8	1423.3	1426.6	1431.2	1437.1	1459.4	1452.2	1460.0
7.5°	1412.8	1431.5	1438.7	1447.6	1457.1	1482.0	1476.1	1484.0
10°	1412.8	1437.1	1447.6	1462.3	1475.1	1504.0	1498.4	1507.6
12.5°	1406.9	1438.1	1452.8	1473.5	1489.9	1521.0	1518.7	1525.3
15°	1394.8	1433.1	1453.5	1480.0	1500.4	1535.1	1534.2	1542.0
17.5°	1378.4	1424.6	1449.2	1482.7	1508.2	1547.3	1549.6	1553.8
20°	1357.7	1408.5	1440.7	1481.7	1513.8	1556.8	1559.7	1565.7
22.5°	1330.5	1389.2	1427.9	1477.4	1514.5	1560.7	1566.0	1571.6
25°	1298.3	1365.9	1411.2	1469.2	1511.2	1560.4	1567.6	1572.5
27.5°	1261.6	1335.7	1389.8	1456.1	1502.0	1555.2	1564.0	1569.9
30°	1218.9	1303.6	1365.6	1439.0	1489.6	1545.3	1554.8	1560.7
32.5°	1175.0	1268.1	1336.7	1417.1	1471.5	1529.6	1537.8	1542.4
35°	1127.1	1225.2	1301.9	1388.8	1448.2	1504.3	1510.5	1515.5
37.5°	1074.9	1178.6	1262.2	1357.0	1415.4	1469.2	1474.8	1480.4
40°	1021.1	1129.7	1217.6	1318.0	1376.4	1426.2	1432.1	1436.1
42.5°	967.0	1075.6	1170.1	1272.1	1330.1	1378.0	1381.6	1385.6
45°	912.2	1019.5	1116.6	1221.2	1278.6	1323.6	1324.9	1328.2
47.5°	856.5	961.4	1057.9	1163.2	1219.9	1260.9	1262.2	1264.9
50°	800.4	903.4	995.2	1100.5	1156.0	1199.3	1193.3	1196.0
52.5°	745.3	842.4	936.2	1032.9	1087.7	1126.1	1127.7	1122.5
55°	691.1	782.7	868.9	962.1	1014.2	1044.1	1043.1	1045.1
57.5°	636.4	722.3	801.4	886.6	937.5	965.7	971.6	964.7
60°	580.6	661.3	732.1	809.2	858.4	882.1	888.9	882.4
62.5°	525.2	599.3	663.6	730.8	776.4	805.6	805.0	797.8
65°	469.7	537.0	594.4	651.5	691.1	720.3	719.0	712.5
67.5°	418.6	474.0	525.5	571.7	606.2	626.2	633.1	625.2
70°	362.1	410.0	455.3	492.4	520.9	538.9	545.5	538.6
72.5°	305.7	346.4	378.2	414.0	435.9	451.0	457.9	451.4
75°	250.0	283.4	309.3	337.2	352.6	365.4	373.3	366.7
77.5°	195.8	221.7	242.4	262.7	280.5	283.4	290.3	286.0
80°	144.3	163.0	178.1	191.6	204.4	205.7	211.2	208.6
82.5°	96.1	108.6	112.5	126.6	134.8	133.5	139.1	137.1
85°	50.8	58.4	65.3	69.5	74.1	69.9	74.8	72.8
87.5°	17.1	18.0	15.7	22.3	24.6	21.0	23.9	23.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)