

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: P838166

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-2LO-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: P838166
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-LD4-2LO-27-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

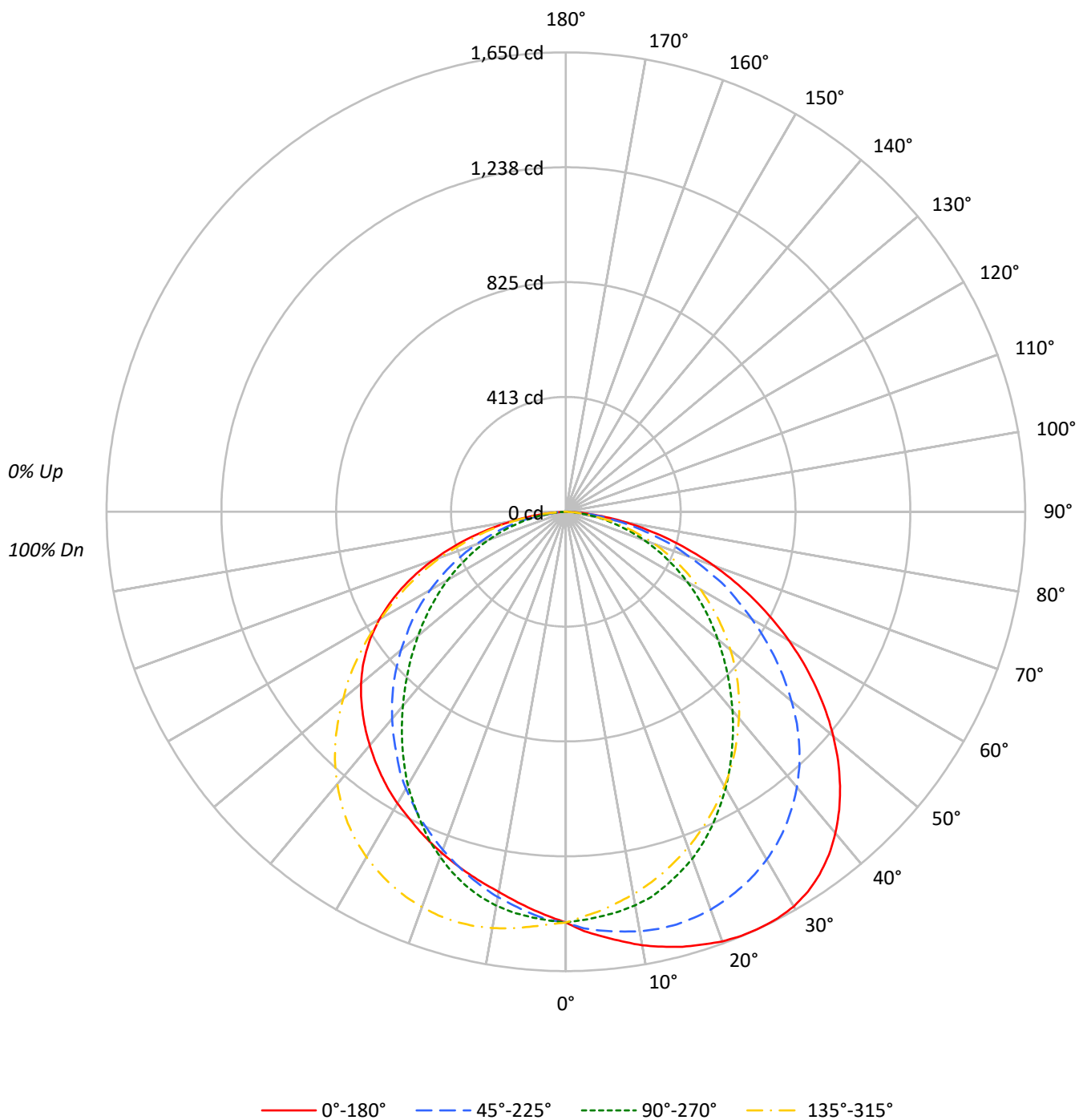
Lumens per Lamp: N/A
Luminaire Lumens: 4327.7 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	1985	1985	1985	1985
5°	2068	1970	1933	1974
10°	2161	1960	1894	1963
15°	2253	1935	1875	1936
20°	2352	1900	1867	1889
25°	2449	1847	1867	1828
30°	2544	1783	1880	1763
35°	2611	1710	1898	1682
40°	2646	1636	1925	1599
45°	2651	1561	1962	1522
50°	2626	1490	2010	1451
55°	2572	1424	2055	1384
60°	2491	1355	2082	1319
65°	2379	1275	2072	1245
70°	2223	1182	1998	1160
75°	2000	1054	1834	1048
80°	1695	883	1541	896
85°	1179	584	977	601

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.0	3.2
10°-20°	405.6	9.4
20°-30°	621.5	14.4
30°-40°	755.7	17.5
40°-50°	785.6	18.2
50°-60°	709.7	16.4
60°-70°	539.5	12.5
70°-80°	300.8	7.0
80°-90°	69.3	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°	1167.1	27.0
0°-40°	1922.9	44.4
0°-60°	3418.1	79.0
0°-90°	4327.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4327.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1475	1475	1475	1475	1475	
5°	1532	1459	1431	1461	1532	148
15°	1618	1389	1346	1390	1618	459
25°	1650	1244	1258	1232	1650	762
35°	1590	1041	1156	1024	1590	993
45°	1393	821	1031	800	1393	1073
55°	1096	607	876	590	1096	979
65°	747	400	651	391	747	739
75°	385	203	353	202	385	409
85°	76	38	63	39	76	96
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°	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1
2.5°	1507.8	1485.8	1486.1	1505.4	1490.6	1497.8	1477.2	1485.1	1482.7	1484.4	1467.5
5°	1531.5	1507.8	1507.4	1523.9	1507.4	1510.5	1484.4	1489.5	1482.0	1477.2	1458.9
7.5°	1556.6	1532.9	1530.5	1544.9	1523.3	1520.9	1491.9	1491.9	1478.2	1466.1	1448.9
10°	1581.4	1557.0	1553.9	1564.9	1538.1	1530.1	1495.0	1489.5	1471.3	1453.4	1434.8
12.5°	1600.0	1575.2	1572.8	1579.7	1549.4	1535.0	1495.0	1484.4	1457.5	1432.4	1418.0
15°	1617.5	1592.1	1585.5	1589.0	1554.2	1535.0	1490.2	1473.7	1439.3	1406.3	1389.4
17.5°	1629.9	1605.5	1599.0	1598.6	1556.6	1529.1	1479.9	1457.2	1415.9	1376.0	1359.1
20°	1642.3	1617.9	1609.6	1603.4	1555.9	1521.2	1464.8	1434.1	1386.0	1341.2	1327.1
22.5°	1648.5	1623.4	1614.4	1605.2	1551.5	1506.7	1446.2	1407.3	1352.3	1298.9	1287.2
25°	1649.5	1623.7	1614.1	1600.7	1542.5	1489.5	1422.1	1375.0	1313.4	1254.2	1244.2
27.5°	1646.8	1618.6	1608.9	1592.8	1529.1	1468.6	1393.5	1338.1	1272.1	1206.7	1196.0
30°	1637.2	1608.6	1599.3	1578.3	1510.2	1442.7	1362.2	1297.2	1226.3	1156.8	1147.5
32.5°	1617.9	1590.0	1582.4	1561.5	1489.5	1412.8	1325.8	1253.2	1175.7	1109.3	1095.6
35°	1589.7	1561.8	1557.0	1535.0	1460.6	1377.0	1285.8	1205.0	1122.1	1054.3	1040.9
37.5°	1552.9	1529.5	1522.2	1500.6	1426.6	1336.4	1240.1	1152.7	1067.3	994.4	986.1
40°	1506.4	1484.4	1478.9	1459.6	1387.0	1291.3	1190.5	1098.7	1010.9	943.1	931.4
42.5°	1453.4	1432.8	1429.7	1409.7	1338.1	1241.5	1136.9	1042.6	952.1	886.7	875.0
45°	1393.2	1373.2	1372.6	1353.6	1284.8	1186.1	1080.4	985.8	894.6	826.8	820.6
47.5°	1326.8	1308.9	1308.9	1291.3	1225.3	1125.2	1022.3	926.6	836.8	776.9	765.9
50°	1254.5	1237.7	1232.5	1223.9	1159.6	1058.7	961.0	868.8	779.7	722.6	711.9
52.5°	1177.5	1163.0	1166.4	1150.6	1088.3	989.6	899.1	803.8	722.2	670.3	659.6
55°	1096.3	1075.6	1078.7	1072.9	1014.0	918.4	829.6	750.1	665.8	616.9	607.0
57.5°	1012.0	985.1	996.1	992.7	934.9	845.4	765.9	689.2	609.7	564.6	555.0
60°	925.6	899.8	911.1	908.0	853.7	772.5	700.2	629.0	554.0	513.0	503.4
62.5°	836.8	813.1	823.4	821.0	771.1	697.8	634.8	569.5	497.9	461.1	452.1
65°	747.4	724.6	733.9	732.2	686.1	630.4	567.7	507.9	441.5	409.5	400.5
67.5°	655.8	634.8	643.4	643.4	601.1	547.8	500.3	445.6	386.1	358.5	350.3
70°	565.0	545.4	552.9	552.3	516.5	473.1	432.2	383.3	330.0	307.3	300.4
72.5°	473.5	456.3	463.1	462.4	432.5	404.6	364.0	321.7	275.3	257.0	250.8
75°	384.7	368.5	375.1	374.4	349.9	323.8	296.6	261.5	221.6	208.9	202.7
77.5°	300.0	283.5	289.0	289.0	271.1	252.2	230.5	203.4	175.1	161.4	156.9
80°	218.8	210.9	208.2	208.5	196.5	184.1	173.1	146.9	126.3	117.0	113.9
82.5°	143.8	137.3	134.5	135.2	128.3	120.8	113.9	95.7	81.9	76.4	74.7
85°	76.4	71.6	69.2	70.9	69.5	65.4	61.9	49.5	40.9	38.9	37.8
87.5°	24.1	21.0	19.3	25.5	21.7	19.3	18.6	14.8	11.4	11.4	11.0
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°	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1
2.5°	1473.0	1473.0	1459.6	1456.5	1455.1	1456.9	1443.4	1441.0	1460.3	1453.8	1439.0
5°	1461.3	1460.6	1441.7	1438.3	1438.3	1436.2	1421.1	1417.6	1436.9	1431.4	1415.2
7.5°	1446.9	1444.8	1422.4	1420.0	1416.6	1415.2	1398.4	1396.0	1412.5	1409.0	1393.9
10°	1429.3	1427.3	1400.8	1399.0	1395.3	1392.5	1376.7	1375.0	1391.8	1386.3	1374.3
12.5°	1406.3	1402.5	1375.3	1373.6	1370.5	1369.5	1354.0	1353.3	1371.9	1366.4	1353.6
15°	1376.0	1372.9	1342.6	1343.3	1343.6	1343.6	1331.3	1330.6	1348.8	1346.4	1332.6
17.5°	1342.6	1338.5	1309.6	1311.6	1314.1	1316.8	1307.2	1308.9	1328.2	1325.1	1312.7
20°	1304.8	1300.6	1272.4	1278.3	1283.4	1288.9	1282.7	1287.6	1305.5	1304.1	1294.8
22.5°	1262.4	1258.3	1232.2	1241.1	1249.7	1260.0	1257.3	1262.8	1281.7	1281.4	1273.1
25°	1210.8	1211.9	1188.8	1199.8	1214.3	1228.7	1229.8	1238.7	1259.7	1257.6	1250.1
27.5°	1162.7	1164.0	1139.6	1158.2	1177.5	1196.0	1200.5	1212.9	1234.2	1232.5	1226.0
30°	1112.1	1113.8	1090.1	1115.5	1138.9	1161.6	1171.3	1188.1	1209.8	1209.8	1202.9
32.5°	1059.4	1062.5	1037.8	1071.8	1099.0	1125.5	1142.4	1159.9	1184.7	1184.0	1178.1
35°	1005.4	1008.9	986.1	1029.5	1056.7	1089.0	1110.0	1133.4	1155.4	1155.8	1151.3
37.5°	950.4	954.5	933.8	981.3	1012.3	1050.5	1077.3	1100.7	1125.2	1126.5	1122.4
40°	895.7	900.1	882.2	928.0	967.2	1009.9	1040.9	1068.4	1095.2	1095.9	1093.2
42.5°	840.9	845.8	832.3	877.1	921.5	967.2	1003.7	1035.0	1062.5	1064.3	1061.2
45°	787.6	791.7	782.1	831.0	873.6	923.5	965.5	1000.9	1028.8	1031.2	1030.2
47.5°	734.6	738.4	729.8	774.5	823.7	876.7	925.2	964.5	994.1	996.8	996.1
50°	682.7	685.8	676.5	723.3	772.1	828.6	879.1	924.6	957.6	960.3	960.0
52.5°	631.1	634.1	626.2	675.4	719.8	779.4	834.4	883.6	916.3	920.4	921.1
55°	581.2	582.5	576.3	623.5	666.5	728.8	792.1	839.9	872.6	876.0	878.1
57.5°	531.3	531.6	526.4	571.5	612.8	676.5	742.9	793.1	824.1	827.5	830.6
60°	481.7	481.4	475.5	519.2	558.8	621.8	690.9	740.8	770.7	773.8	778.0
62.5°	432.5	431.5	426.3	466.6	503.7	566.0	635.5	683.7	712.3	714.3	719.8
65°	383.7	382.6	377.8	415.0	448.7	508.2	576.3	622.1	647.9	650.7	649.6
67.5°	335.5	333.4	329.6	363.0	393.6	448.7	514.1	557.8	579.1	581.5	588.0
70°	287.3	284.9	276.3	311.7	338.6	387.8	448.7	487.6	505.5	507.9	506.8
72.5°	239.8	237.4	228.1	260.8	283.5	326.5	380.9	413.2	428.7	430.8	430.8
75°	193.7	192.3	186.5	211.3	230.2	265.3	311.4	338.2	350.3	352.7	352.0
77.5°	149.3	148.3	142.5	163.8	178.6	204.7	241.9	262.9	271.8	274.6	280.4
80°	107.0	106.7	97.4	118.4	124.9	146.9	174.1	190.3	195.1	198.9	203.0
82.5°	68.5	68.8	59.5	77.4	80.2	94.3	111.1	121.1	124.6	127.7	130.8
85°	33.4	34.8	29.6	40.9	41.3	48.5	55.7	59.5	60.9	63.3	66.1
87.5°	8.6	10.0	5.5	11.7	10.3	13.4	15.5	16.5	16.2	17.9	18.9
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°	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1
2.5°	1443.8	1454.8	1449.3	1467.2	1474.1	1463.0	1482.3	1482.7	1468.9	1485.1	1494.0
5°	1421.4	1432.8	1429.3	1447.9	1456.5	1446.9	1470.3	1474.7	1461.3	1479.6	1494.0
7.5°	1398.7	1412.1	1407.6	1426.6	1436.9	1429.3	1454.4	1461.7	1451.3	1471.3	1490.6
10°	1379.1	1390.4	1385.6	1405.6	1414.5	1408.3	1433.1	1446.5	1436.9	1461.3	1484.4
12.5°	1359.8	1369.1	1363.6	1380.1	1388.7	1380.8	1411.1	1423.5	1416.6	1442.1	1471.6
15°	1335.0	1345.4	1337.8	1352.6	1359.1	1352.3	1377.0	1398.4	1389.8	1417.6	1450.3
17.5°	1316.1	1322.0	1311.6	1323.3	1327.1	1317.8	1343.0	1364.0	1357.8	1388.0	1425.9
20°	1295.1	1300.0	1285.5	1292.0	1291.7	1280.0	1303.0	1323.7	1319.6	1352.9	1396.0
22.5°	1271.7	1274.1	1257.3	1258.7	1258.0	1238.7	1259.3	1280.3	1278.6	1312.3	1360.5
25°	1247.0	1247.3	1225.6	1224.9	1217.4	1194.7	1212.9	1236.6	1231.5	1268.0	1318.5
27.5°	1222.5	1219.1	1192.9	1186.7	1174.7	1147.5	1163.7	1185.0	1181.9	1217.7	1273.8
30°	1196.4	1191.9	1159.9	1148.6	1131.0	1099.7	1113.1	1133.1	1134.8	1166.1	1224.9
32.5°	1171.6	1160.3	1124.8	1108.3	1086.3	1049.8	1057.0	1077.3	1080.1	1111.7	1172.3
35°	1139.6	1132.0	1088.3	1060.1	1038.4	998.5	1006.1	1020.2	1024.3	1055.3	1116.9
37.5°	1109.3	1097.3	1050.8	1016.4	988.6	946.6	948.6	963.1	967.2	998.5	1059.4
40°	1078.0	1060.8	1010.9	970.7	938.7	894.6	892.2	907.4	910.4	941.1	996.1
42.5°	1044.6	1024.0	967.9	923.9	887.0	842.3	837.5	850.6	854.0	884.0	938.0
45°	1010.9	986.1	923.9	875.7	835.4	789.7	784.9	794.8	800.0	828.2	880.2
47.5°	975.1	946.2	878.4	824.8	783.1	737.4	731.5	741.5	745.6	773.5	822.7
50°	937.6	902.5	831.7	772.5	731.2	686.1	677.5	689.2	693.0	719.1	767.3
52.5°	896.3	857.5	781.8	719.8	678.5	635.5	625.2	636.6	641.0	666.5	710.9
55°	852.6	810.7	731.5	671.3	626.6	584.6	576.0	580.5	590.1	614.2	655.5
57.5°	803.4	761.8	678.5	617.3	574.3	534.0	526.8	530.9	539.9	563.3	600.4
60°	751.1	707.1	624.5	563.3	521.6	483.4	476.9	480.7	490.3	511.7	546.1
62.5°	699.5	650.0	568.8	507.9	470.0	434.6	432.9	431.5	440.4	461.1	491.4
65°	636.9	589.4	510.6	452.8	418.4	386.4	379.5	382.6	391.2	410.1	441.8
67.5°	569.8	526.8	451.1	397.8	367.1	338.6	332.7	334.1	343.1	359.6	387.1
70°	498.6	460.7	390.2	342.4	316.6	289.7	285.9	286.3	294.9	309.3	333.4
72.5°	423.9	389.8	328.6	287.7	266.3	247.1	243.6	239.5	247.4	259.8	280.4
75°	347.9	317.9	267.4	234.0	217.1	200.9	197.8	193.7	201.6	212.3	228.5
77.5°	271.1	247.1	207.8	182.0	168.9	156.9	154.1	149.7	157.6	165.5	178.2
80°	196.1	178.6	155.2	128.0	123.5	115.6	112.9	108.0	115.6	120.8	130.4
82.5°	126.6	114.9	101.5	82.6	81.9	76.0	74.7	69.2	76.0	79.1	86.4
85°	64.0	58.5	55.1	42.0	43.4	39.6	39.2	33.4	38.9	40.3	44.4
87.5°	18.2	19.3	17.2	10.3	13.1	12.4	12.4	8.9	12.4	12.4	14.1
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: P838166

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-2LO-27-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1
2.5°	1476.5	1482.3	1483.7	1483.3	1487.1	1507.8	1500.9	1507.8
5°	1479.9	1493.0	1496.4	1501.2	1507.4	1530.8	1523.3	1531.5
7.5°	1482.0	1501.6	1509.2	1518.4	1528.4	1554.6	1548.4	1556.6
10°	1482.0	1507.4	1518.4	1533.9	1547.3	1577.6	1571.8	1581.4
12.5°	1475.8	1508.5	1523.9	1545.6	1562.8	1595.5	1593.1	1600.0
15°	1463.0	1503.3	1524.6	1552.5	1573.8	1610.3	1609.3	1617.5
17.5°	1445.8	1494.4	1520.2	1555.3	1582.1	1623.0	1625.5	1629.9
20°	1424.2	1477.5	1511.2	1554.2	1587.9	1633.0	1636.1	1642.3
22.5°	1395.6	1457.2	1497.8	1549.8	1588.6	1637.2	1642.7	1648.5
25°	1361.9	1432.8	1480.3	1541.2	1585.2	1636.8	1644.4	1649.5
27.5°	1323.3	1401.1	1457.9	1527.4	1575.6	1631.3	1640.6	1646.8
30°	1278.6	1367.4	1432.4	1509.5	1562.5	1621.0	1631.0	1637.2
32.5°	1232.5	1330.2	1402.1	1486.4	1543.6	1604.5	1613.1	1617.9
35°	1182.3	1285.2	1365.7	1456.9	1519.1	1578.0	1584.5	1589.7
37.5°	1127.6	1236.3	1324.0	1423.5	1484.7	1541.2	1547.0	1552.9
40°	1071.1	1185.0	1277.2	1382.5	1443.8	1496.1	1502.3	1506.4
42.5°	1014.4	1128.3	1227.3	1334.4	1395.3	1445.5	1449.3	1453.4
45°	956.9	1069.4	1171.3	1281.0	1341.2	1388.4	1389.8	1393.2
47.5°	898.4	1008.5	1109.7	1220.1	1279.6	1322.7	1324.0	1326.8
50°	839.6	947.6	1044.0	1154.4	1212.6	1258.0	1251.8	1254.5
52.5°	781.8	883.6	982.0	1083.5	1141.0	1181.2	1183.0	1177.5
55°	725.0	821.0	911.5	1009.2	1063.9	1095.2	1094.2	1096.3
57.5°	667.5	757.7	840.6	930.1	983.4	1013.0	1019.2	1012.0
60°	609.0	693.7	768.0	848.9	900.5	925.2	932.5	925.6
62.5°	550.9	628.6	696.1	766.6	814.4	845.1	844.4	836.8
65°	492.7	563.3	623.5	683.4	725.0	755.6	754.2	747.4
67.5°	439.1	497.2	551.2	599.7	635.9	656.9	664.1	655.8
70°	379.9	430.1	477.6	516.5	546.4	565.3	572.2	565.0
72.5°	320.7	363.4	396.7	434.2	457.3	473.1	480.3	473.5
75°	262.2	297.3	324.5	353.7	369.9	383.3	391.6	384.7
77.5°	205.4	232.6	254.3	275.6	294.2	297.3	304.5	300.0
80°	151.4	171.0	186.8	200.9	214.4	215.7	221.6	218.8
82.5°	100.8	113.9	118.0	132.8	141.4	140.0	145.9	143.8
85°	53.3	61.2	68.5	72.9	77.8	73.3	78.5	76.4
87.5°	17.9	18.9	16.5	23.4	25.8	22.0	25.1	24.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)