

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: PORTFOLIO

Report Number: P245445

Luminaire Tested: **LD8B30D010 ER8B309727 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245445
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-53)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B30D010 ER8B309727 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2196.0 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

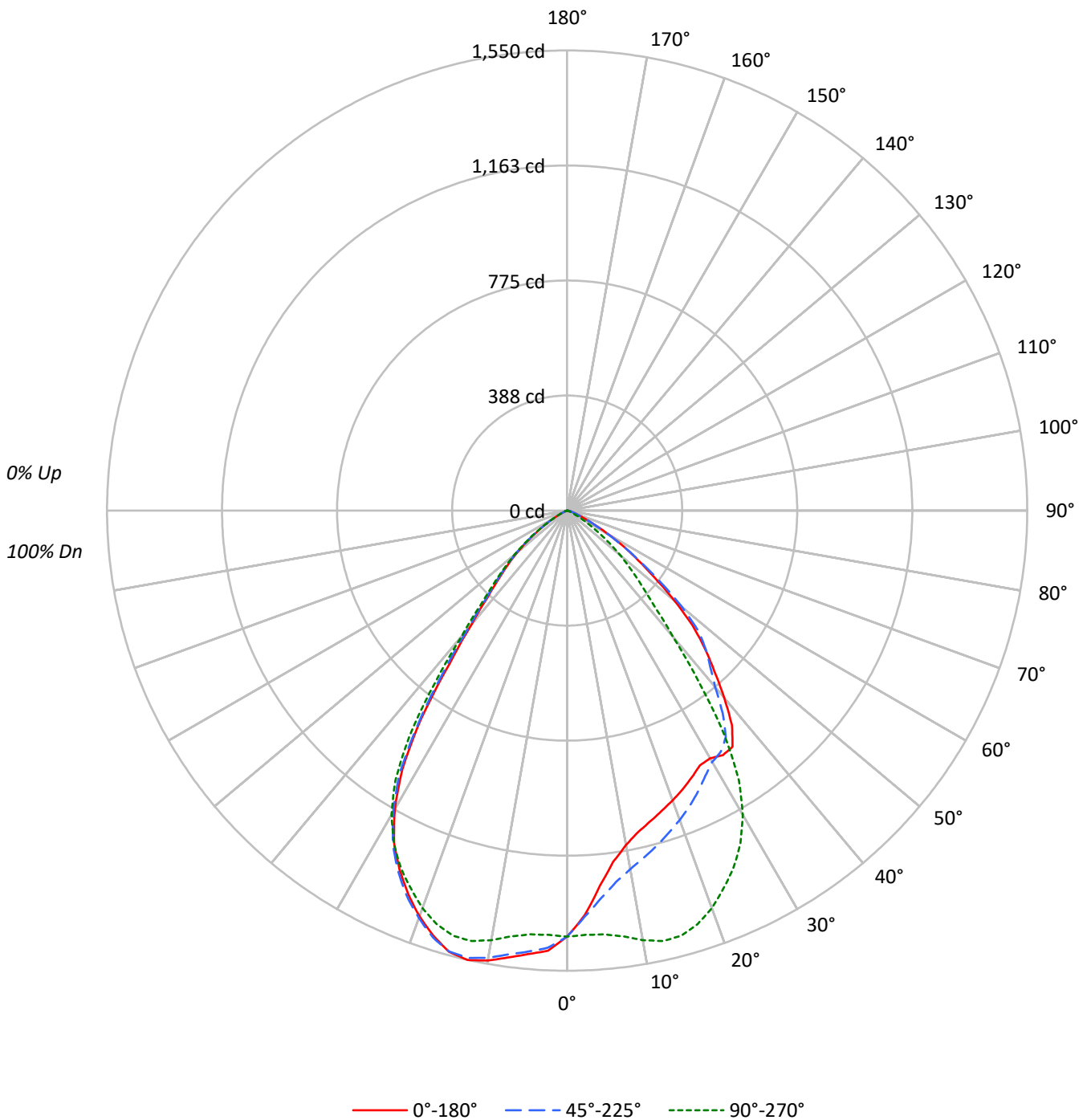
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	88	86	84	82
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67
5	86	76	69	64	84	75	69	64	73	68	63	72	66	63	70	65	62	60
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	39

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.7	6.1
10°-20°	386.2	17.6
20°-30°	560.5	25.5
30°-40°	552.1	25.1
40°-50°	346.1	15.8
50°-60°	167.0	7.6
60°-70°	40.4	1.8
70°-80°	8.2	0.4
80°-90°	1.9	0.1
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°	1080.4	49.2
0°-40°	1632.5	74.3
0°-60°	2145.5	97.7
0°-90°	2196.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2196.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1435	1435	1435	1435	1435	
5°	1268	1311	1433	1491	1500	117
15°	1083	1168	1483	1537	1538	306
25°	992	1044	1327	1345	1335	459
35°	971	932	926	873	859	588
45°	656	660	350	336	326	501
55°	291	301	127	126	120	268
65°	68	68	19	16	14	78
75°	17	14	4	2	2	19
85°	5	4	1	0	0	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1434.6	1434.6	1434.6	1434.6	1434.6	1434.6	1434.6	1434.6	1434.6	1434.6	1434.6
2.5°	1363.7	1355.1	1338.9	1358.5	1358.5	1347.5	1369.4	1356.2	1366.8	1383.3	1368.6
5°	1268.0	1260.8	1247.3	1268.0	1270.6	1260.5	1286.8	1277.0	1292.5	1312.9	1311.0
7.5°	1192.2	1183.2	1170.8	1192.2	1196.4	1189.6	1214.9	1210.3	1230.7	1257.1	1261.6
10°	1142.9	1133.4	1122.5	1142.1	1145.1	1140.6	1166.2	1163.6	1183.6	1214.1	1226.2
12.5°	1107.8	1099.9	1087.8	1108.6	1111.9	1105.5	1129.7	1128.5	1149.3	1181.3	1196.4
15°	1083.3	1073.9	1062.9	1080.7	1085.2	1078.0	1101.0	1098.8	1119.9	1151.5	1168.5
17.5°	1060.3	1051.6	1040.3	1056.9	1061.4	1053.9	1076.5	1072.7	1090.8	1121.0	1138.3
20°	1038.8	1029.4	1019.2	1036.2	1038.8	1030.2	1052.8	1047.9	1064.1	1092.0	1108.9
22.5°	1016.6	1006.8	996.2	1012.8	1015.5	1006.8	1027.5	1021.9	1036.9	1062.2	1077.6
25°	992.1	983.0	972.5	987.9	990.2	980.8	1002.6	995.5	1008.7	1030.9	1043.7
27.5°	967.6	958.9	947.2	963.1	964.2	955.1	975.1	965.3	976.3	996.6	1007.5
30°	963.4	953.6	941.6	954.4	954.8	943.1	961.9	950.2	956.3	971.4	977.8
32.5°	976.6	966.8	954.4	964.9	963.8	951.0	969.1	954.8	956.7	964.6	963.1
35°	971.4	959.7	945.0	956.3	956.3	940.8	958.9	942.0	940.1	941.2	931.8
37.5°	911.4	902.4	888.4	899.4	898.2	886.5	900.5	886.5	880.1	877.5	860.5
40°	823.2	812.3	801.7	813.4	814.5	802.1	820.2	804.4	802.5	794.9	775.0
42.5°	733.9	730.1	719.9	729.7	735.0	724.5	739.5	732.0	733.1	731.2	712.4
45°	655.9	649.5	641.9	653.2	656.6	651.3	666.4	661.9	666.4	675.8	660.4
47.5°	571.8	565.4	557.1	569.2	575.2	565.4	578.2	576.7	583.5	599.7	598.2
50°	470.4	465.9	464.4	465.9	469.7	465.1	474.2	474.6	479.1	501.3	502.8
52.5°	372.4	371.3	366.0	370.9	370.9	363.7	372.8	368.6	373.2	388.2	398.0
55°	291.4	290.2	286.8	291.4	286.5	283.8	286.5	282.3	278.9	290.6	300.8
57.5°	226.9	223.1	219.0	220.9	220.5	214.9	217.9	213.0	210.3	214.5	223.5
60°	161.7	160.6	156.8	158.7	160.2	156.0	159.1	156.8	152.3	155.7	156.0
62.5°	107.4	108.2	105.9	106.3	105.2	104.4	106.3	107.4	106.3	104.8	105.2
65°	68.2	67.8	67.5	67.8	68.6	67.1	68.2	69.0	67.8	67.8	67.5
67.5°	45.2	44.1	43.0	43.7	44.5	43.3	44.5	44.1	44.5	44.1	43.0
70°	30.5	30.2	29.8	30.2	30.2	29.4	30.2	29.8	30.2	29.8	28.6
72.5°	22.2	22.2	21.9	22.2	22.2	21.5	21.9	21.1	21.5	21.1	20.4
75°	16.6	16.6	16.2	16.6	16.2	15.8	16.2	15.8	15.1	15.1	14.3
77.5°	12.1	12.1	12.1	12.1	12.1	11.7	11.7	11.3	10.9	10.6	10.6
80°	9.0	8.7	8.7	8.7	8.7	8.3	8.7	8.3	7.9	7.5	7.2
82.5°	6.4	6.8	6.4	6.4	6.4	6.0	6.4	6.0	6.0	5.7	4.9
85°	4.9	4.9	4.9	4.9	4.9	4.5	4.5	4.5	4.1	4.1	3.8
87.5°	2.6	2.6	2.6	3.0	2.6	2.6	2.6	2.3	2.3	1.9	1.9
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1434.6	1434.6	1434.6	1434.6	1434.6	1434.6	1434.6	1434.6	1434.6	1434.6	1434.6
2.5°	1388.2	1390.1	1386.0	1392.4	1417.3	1397.3	1405.6	1408.2	1427.1	1430.5	1428.2
5°	1335.5	1343.8	1349.0	1363.4	1390.9	1376.6	1391.3	1400.7	1424.8	1432.7	1434.6
7.5°	1294.0	1311.3	1324.2	1347.5	1379.9	1369.0	1391.3	1406.7	1436.1	1446.3	1451.2
10°	1263.1	1289.5	1311.7	1343.8	1380.3	1373.2	1402.2	1424.0	1456.8	1468.9	1474.9
12.5°	1239.7	1271.8	1301.5	1342.3	1381.8	1378.4	1413.5	1438.4	1473.0	1485.1	1492.3
15°	1214.1	1251.0	1285.7	1331.3	1373.9	1373.2	1410.9	1437.2	1472.7	1482.8	1489.6
17.5°	1183.6	1223.1	1261.2	1310.6	1352.8	1353.6	1391.6	1417.6	1452.3	1460.6	1465.1
20°	1152.7	1191.9	1229.9	1280.8	1322.3	1323.4	1360.7	1384.8	1418.0	1424.8	1425.9
22.5°	1119.9	1156.4	1194.5	1245.0	1285.0	1285.7	1322.7	1345.3	1373.5	1376.9	1379.9
25°	1082.5	1118.4	1154.2	1204.3	1242.4	1244.6	1278.2	1298.2	1324.2	1326.8	1327.9
27.5°	1043.7	1073.1	1107.4	1150.4	1188.8	1187.3	1219.0	1241.6	1265.0	1263.5	1263.1
30°	1004.5	1029.0	1050.1	1091.6	1119.9	1121.0	1150.8	1161.7	1186.2	1183.2	1182.8
32.5°	977.0	983.4	989.1	1010.2	1036.9	1027.5	1047.9	1061.4	1078.4	1077.3	1077.6
35°	926.5	914.8	897.9	900.9	917.1	902.4	913.3	912.9	930.3	926.1	931.0
37.5°	840.2	807.0	769.3	747.8	750.8	732.4	728.6	737.7	743.7	732.0	736.1
40°	748.2	699.2	640.4	591.4	588.8	565.8	561.6	552.6	564.3	554.5	557.5
42.5°	680.4	615.5	538.3	478.7	465.9	446.7	435.4	433.8	437.2	430.5	428.6
45°	628.3	559.4	470.8	402.6	388.2	367.5	356.2	352.1	352.4	350.2	348.3
47.5°	567.3	497.9	408.2	338.5	322.3	302.7	291.4	288.7	290.2	287.2	285.0
50°	482.8	420.7	338.9	275.2	260.8	246.5	237.5	234.8	234.5	232.2	230.7
52.5°	392.0	340.4	269.5	216.4	203.5	189.6	183.2	179.8	180.2	177.9	175.7
55°	303.4	271.4	208.8	163.6	151.9	141.0	134.9	130.8	129.7	127.4	126.3
57.5°	225.8	204.3	156.4	118.0	111.2	100.6	94.6	89.7	89.0	87.8	87.4
60°	158.3	142.9	110.1	84.1	76.1	69.7	63.7	58.8	56.5	56.2	55.0
62.5°	102.5	93.1	72.4	56.2	50.1	45.6	39.6	36.2	34.7	33.2	33.5
65°	63.7	56.5	45.2	36.2	32.8	29.4	24.9	21.9	20.4	18.8	19.2
67.5°	39.6	35.4	28.6	23.4	21.1	18.5	15.1	12.8	11.7	10.6	9.8
70°	26.8	23.0	19.6	16.6	15.1	13.2	10.9	9.0	8.3	7.5	6.8
72.5°	18.8	17.0	14.3	12.4	11.3	9.8	8.3	7.2	6.4	5.7	4.9
75°	13.6	12.1	10.6	9.0	8.3	7.5	6.4	5.7	4.9	4.1	3.4
77.5°	9.8	8.7	7.5	6.8	6.4	5.3	4.5	4.1	3.8	3.0	2.3
80°	6.8	6.0	4.9	4.5	4.5	3.8	3.4	3.0	2.6	1.9	1.5
82.5°	4.5	4.1	3.8	3.4	3.0	2.6	2.6	1.9	1.5	1.1	0.8
85°	3.4	3.0	2.6	2.3	2.3	1.9	1.5	1.1	1.1	0.8	0.4
87.5°	1.9	1.9	1.5	1.1	1.1	0.8	0.8	0.4	0.4	0.4	0.4
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1434.6	1434.6	1434.6	1434.6	1434.6	1434.6	1434.6	1434.6	1434.6	1434.6	1434.6
2.5°	1447.4	1448.5	1455.0	1450.1	1462.5	1471.5	1467.0	1477.2	1473.8	1473.0	1484.7
5°	1457.2	1459.9	1468.5	1464.0	1477.6	1487.4	1482.8	1494.2	1490.8	1490.0	1502.1
7.5°	1476.1	1478.7	1486.2	1482.5	1496.8	1505.5	1499.8	1512.3	1507.7	1507.4	1519.0
10°	1499.8	1503.6	1510.0	1506.2	1519.4	1527.0	1521.3	1533.4	1529.2	1527.3	1540.1
12.5°	1517.5	1520.2	1526.6	1523.6	1536.4	1542.0	1537.1	1548.8	1543.5	1542.0	1553.3
15°	1513.4	1516.0	1521.3	1518.7	1530.7	1536.0	1529.6	1542.4	1537.1	1534.1	1544.3
17.5°	1487.0	1488.5	1492.3	1489.6	1502.4	1505.8	1498.7	1511.5	1506.6	1501.3	1511.1
20°	1448.2	1447.4	1449.7	1448.5	1459.1	1461.0	1456.5	1465.9	1460.2	1457.2	1462.9
22.5°	1399.9	1399.2	1400.7	1397.7	1408.2	1409.3	1402.6	1413.9	1408.2	1402.6	1412.0
25°	1346.4	1342.3	1341.5	1342.6	1349.8	1350.9	1343.8	1352.1	1344.9	1340.4	1349.4
27.5°	1280.4	1275.2	1274.0	1275.2	1282.3	1277.0	1271.0	1277.0	1269.9	1265.7	1271.4
30°	1199.0	1191.5	1188.1	1185.8	1193.4	1191.5	1177.5	1184.3	1173.0	1167.0	1171.1
32.5°	1089.3	1085.2	1076.1	1070.9	1078.0	1063.7	1055.0	1055.0	1050.5	1040.3	1042.6
35°	937.1	930.6	922.4	917.8	919.0	899.7	885.4	888.4	873.4	870.7	871.8
37.5°	744.4	733.9	730.9	721.4	723.7	706.7	687.1	687.5	679.6	671.3	668.7
40°	559.4	557.5	554.5	546.6	549.6	531.1	523.6	523.9	518.7	512.6	515.6
42.5°	432.3	426.3	424.4	421.8	422.5	419.5	409.7	410.9	406.3	404.8	403.3
45°	351.3	344.9	340.4	342.6	342.6	339.2	335.5	337.7	335.5	332.5	334.0
47.5°	289.5	283.5	281.2	280.8	283.5	281.2	277.4	278.2	277.8	276.7	275.9
50°	231.1	229.6	227.7	226.5	227.7	226.9	223.5	225.4	226.5	222.8	223.9
52.5°	176.0	176.0	175.7	173.0	175.3	173.0	172.6	173.4	172.3	170.8	170.4
55°	128.9	127.8	125.9	125.5	126.3	125.5	124.8	125.1	125.9	122.1	122.1
57.5°	88.2	87.4	86.3	86.3	87.8	85.9	84.8	86.3	84.8	83.3	83.3
60°	56.5	56.2	55.0	55.0	55.0	54.7	53.5	53.9	54.7	52.4	52.8
62.5°	33.9	32.8	32.4	32.0	32.4	32.0	32.0	31.7	31.3	31.3	30.2
65°	18.5	17.7	17.0	17.3	17.3	17.0	17.0	17.0	16.2	15.8	15.5
67.5°	9.4	8.7	8.7	8.3	8.3	8.3	8.3	7.9	7.9	7.9	7.5
70°	6.0	5.7	5.3	5.3	5.3	4.9	4.9	4.9	4.9	4.9	4.5
72.5°	4.1	3.8	3.4	3.4	3.4	3.0	3.0	3.0	3.0	2.6	2.6
75°	3.0	2.6	2.3	2.3	2.3	1.9	1.9	1.9	1.9	1.9	1.9
77.5°	1.9	1.5	1.5	1.5	1.5	1.1	1.1	1.1	1.1	1.1	0.8
80°	1.1	1.1	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4
82.5°	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
87.5°	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P245445

CATALOG NUMBER: LD8B30D010 ER8B309727 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1434.6	1434.6	1434.6	1434.6	1434.6	1434.6	1434.6	1434.6
2.5°	1480.6	1477.6	1479.5	1493.4	1487.4	1485.5	1469.7	1483.6
5°	1498.3	1496.0	1496.0	1511.9	1504.7	1503.2	1487.7	1499.8
7.5°	1514.9	1512.6	1513.0	1529.2	1523.6	1521.3	1505.8	1517.9
10°	1536.4	1534.9	1535.2	1550.7	1544.7	1542.4	1526.6	1539.0
12.5°	1549.2	1546.9	1546.9	1563.5	1556.7	1553.3	1538.3	1550.3
15°	1539.4	1536.0	1536.0	1552.6	1545.0	1540.1	1527.0	1538.3
17.5°	1505.8	1502.4	1502.4	1516.8	1511.1	1504.0	1490.4	1500.9
20°	1459.1	1455.0	1453.8	1470.4	1462.5	1456.1	1444.0	1454.2
22.5°	1406.3	1404.4	1401.1	1417.6	1410.5	1403.7	1390.9	1398.8
25°	1343.0	1340.0	1336.6	1352.8	1345.6	1338.9	1328.7	1335.1
27.5°	1264.2	1264.6	1262.7	1275.5	1268.4	1264.6	1252.2	1262.7
30°	1168.9	1164.7	1163.2	1178.3	1171.5	1166.6	1151.1	1161.3
32.5°	1044.5	1038.4	1030.5	1047.5	1035.8	1031.7	1018.5	1033.2
35°	863.6	861.7	854.5	868.8	862.4	854.9	846.6	859.0
37.5°	667.5	669.1	668.3	672.1	668.3	663.4	654.4	649.8
40°	509.6	505.8	502.8	509.6	501.7	501.7	496.4	502.1
42.5°	399.5	398.0	401.8	403.3	398.8	398.0	397.3	396.9
45°	329.8	329.8	330.6	332.1	330.6	329.8	327.6	326.0
47.5°	271.8	273.3	271.8	276.7	274.0	273.3	268.8	270.6
50°	220.1	218.2	220.1	221.6	222.0	219.8	217.5	218.6
52.5°	170.8	167.7	167.0	169.2	167.7	167.7	166.2	165.8
55°	120.2	121.4	119.5	121.4	120.6	119.5	118.4	119.9
57.5°	81.4	81.8	81.0	82.2	80.3	80.7	80.3	79.9
60°	52.8	51.3	51.3	52.4	50.5	50.5	50.1	50.1
62.5°	30.2	29.8	29.8	29.4	29.0	29.0	29.0	28.3
65°	15.5	15.1	14.7	14.7	14.7	14.7	14.3	14.3
67.5°	7.5	7.2	7.2	7.5	7.2	7.2	7.2	7.2
70°	4.5	4.5	4.1	4.5	4.1	4.1	4.1	4.1
72.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
75°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
77.5°	1.1	0.8	0.8	0.8	0.8	0.8	0.8	0.8
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)