

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: P244154

Luminaire Tested: **LD8B20D010 ER8B20930 8LBSW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244154
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: LD8B20D010 ER8B20930 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

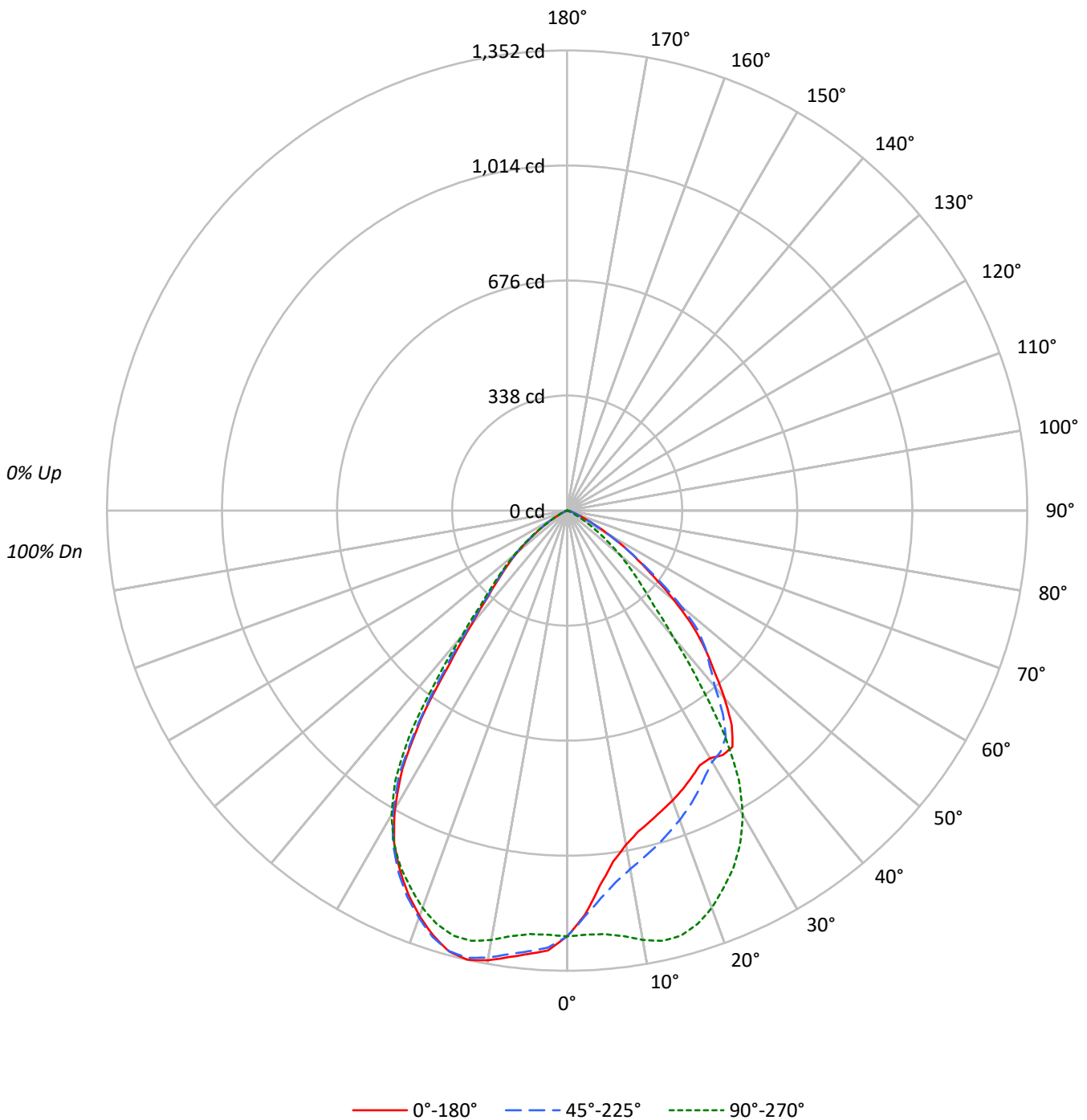
Lumens per Lamp: N/A
Luminaire Lumens: 1914.7 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

Input Watts (W): 21.3
Input Voltage (V): NR
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				0			
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	100	100	100			
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91	91	91	91			
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	88	86	84	82	82	82	82			
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74	74	74	74			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67	67	67	67			
5	86	76	69	64	84	75	69	64	73	68	63	72	66	63	70	65	62	60	60	60	60			
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55	55	55	55			
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	50	50	50	50			
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46	46	46	46			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42	42	42	42			
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	39	39	39	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°	116.6	6.1
10°-20°	336.7	17.6
20°-30°	488.7	25.5
30°-40°	481.3	25.1
40°-50°	301.7	15.8
50°-60°	145.6	7.6
60°-70°	35.2	1.8
70°-80°	7.1	0.4
80°-90°	1.6	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°	942.0	49.2
0°-40°	1423.4	74.3
0°-60°	1870.7	97.7
0°-90°	1914.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1914.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1251	1251	1251	1251	1251	
5°	1106	1143	1249	1300	1308	102
15°	945	1019	1293	1340	1341	267
25°	865	910	1157	1173	1164	400
35°	847	812	808	762	749	512
45°	572	576	305	292	284	437
55°	254	262	111	110	104	234
65°	60	59	16	14	12	68
75°	14	12	4	2	1	16
85°	4	3	1	0	0	4
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°	1250.8	1250.8	1250.8	1250.8	1250.8	1250.8	1250.8	1250.8	1250.8	1250.8	1250.8
2.5°	1189.0	1181.4	1167.3	1184.4	1184.4	1174.9	1194.0	1182.4	1191.6	1206.1	1193.3
5°	1105.5	1099.4	1087.5	1105.5	1107.9	1099.0	1122.0	1113.5	1126.9	1144.7	1143.0
7.5°	1039.5	1031.7	1020.8	1039.5	1043.1	1037.1	1059.2	1055.3	1073.0	1096.0	1099.9
10°	996.5	988.3	978.7	995.8	998.4	994.4	1016.9	1014.5	1032.0	1058.6	1069.1
12.5°	965.9	959.0	948.5	966.5	969.4	963.9	984.9	983.9	1002.1	1030.0	1043.1
15°	944.6	936.3	926.7	942.2	946.1	940.0	959.9	958.0	976.4	1004.0	1018.8
17.5°	924.5	916.9	907.0	921.5	925.5	918.9	938.6	935.4	951.1	977.4	992.5
20°	905.8	897.5	888.6	903.4	905.8	898.1	917.9	913.6	927.7	952.1	966.9
22.5°	886.4	877.9	868.6	883.0	885.4	877.9	895.9	891.0	904.1	926.2	939.6
25°	865.0	857.1	847.9	861.4	863.4	855.1	874.2	868.0	879.4	898.8	910.0
27.5°	843.7	836.0	825.8	839.6	840.6	832.8	850.2	841.6	851.2	868.9	878.4
30°	840.0	831.4	820.9	832.1	832.5	822.3	838.7	828.5	833.8	846.9	852.5
32.5°	851.5	843.0	832.1	841.3	840.3	829.2	844.9	832.5	834.1	841.0	839.6
35°	846.9	836.7	823.9	833.8	833.8	820.3	836.0	821.2	819.7	820.6	812.4
37.5°	794.7	786.7	774.6	784.1	783.1	772.9	785.1	772.9	767.3	765.1	750.3
40°	717.8	708.2	699.1	709.3	710.2	699.4	715.1	701.3	699.7	693.1	675.7
42.5°	639.9	636.6	627.8	636.3	640.9	631.7	644.8	638.2	639.2	637.5	621.1
45°	571.8	566.2	559.7	569.6	572.5	567.9	581.0	577.1	581.0	589.3	575.7
47.5°	498.5	493.0	485.7	496.3	501.5	493.0	504.1	502.8	508.7	522.8	521.6
50°	410.2	406.3	404.9	406.3	409.5	405.6	413.4	413.8	417.7	437.1	438.4
52.5°	324.8	323.7	319.1	323.4	323.4	317.1	325.0	321.4	325.3	338.5	347.1
55°	254.0	253.0	250.1	254.0	249.8	247.5	249.8	246.2	243.1	253.3	262.2
57.5°	197.9	194.6	190.9	192.6	192.3	187.3	190.0	185.6	183.4	187.0	194.8
60°	141.0	140.0	136.8	138.3	139.7	136.1	138.7	136.8	132.7	135.8	136.1
62.5°	93.7	94.3	92.4	92.7	91.7	91.0	92.7	93.7	92.7	91.4	91.7
65°	59.5	59.2	58.9	59.2	59.9	58.5	59.5	60.1	59.2	59.2	58.9
67.5°	39.5	38.5	37.4	38.1	38.8	37.8	38.8	38.5	38.8	38.5	37.4
70°	26.6	26.3	26.0	26.3	26.3	25.7	26.3	26.0	26.3	26.0	25.0
72.5°	19.4	19.4	19.1	19.4	19.4	18.7	19.1	18.4	18.7	18.4	17.7
75°	14.5	14.5	14.1	14.5	14.1	13.8	14.1	13.8	13.1	13.1	12.4
77.5°	10.5	10.5	10.5	10.5	10.5	10.2	10.2	9.9	9.5	9.2	9.2
80°	7.8	7.5	7.5	7.5	7.5	7.2	7.5	7.2	7.0	6.6	6.3
82.5°	5.6	5.9	5.6	5.6	5.6	5.3	5.6	5.3	5.3	4.9	4.3
85°	4.3	4.3	4.3	4.3	4.3	3.9	3.9	3.9	3.6	3.6	3.3
87.5°	2.4	2.4	2.4	2.6	2.4	2.4	2.4	2.0	2.0	1.7	1.7
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1250.8	1250.8	1250.8	1250.8	1250.8	1250.8	1250.8	1250.8	1250.8	1250.8	1250.8
2.5°	1210.3	1212.0	1208.4	1214.0	1235.7	1218.3	1225.5	1227.8	1244.2	1247.2	1245.2
5°	1164.4	1171.6	1176.3	1188.7	1212.7	1200.3	1213.0	1221.2	1242.3	1249.1	1250.8
7.5°	1128.2	1143.3	1154.5	1174.9	1203.2	1193.6	1213.0	1226.5	1252.2	1261.0	1265.3
10°	1101.3	1124.3	1143.6	1171.6	1203.5	1197.2	1222.6	1241.6	1270.2	1280.7	1286.0
12.5°	1080.9	1108.9	1134.8	1170.3	1204.9	1201.8	1232.4	1254.1	1284.3	1294.9	1301.1
15°	1058.6	1090.7	1121.0	1160.8	1197.9	1197.2	1230.1	1253.2	1284.0	1292.8	1298.8
17.5°	1032.0	1066.4	1099.6	1142.6	1179.5	1180.2	1213.4	1236.0	1266.3	1273.5	1277.4
20°	1005.0	1039.2	1072.3	1116.7	1152.8	1153.8	1186.4	1207.4	1236.4	1242.3	1243.3
22.5°	976.4	1008.2	1041.5	1085.5	1120.3	1121.0	1153.2	1172.9	1197.6	1200.5	1203.2
25°	943.9	975.0	1006.3	1050.0	1083.2	1085.1	1114.4	1131.9	1154.5	1156.9	1157.8
27.5°	910.0	935.7	965.5	1003.1	1036.6	1035.2	1062.8	1082.5	1103.0	1101.6	1101.3
30°	875.8	897.2	915.6	951.7	976.4	977.4	1003.3	1012.8	1034.2	1031.7	1031.3
32.5°	851.8	857.5	862.4	880.8	904.1	895.9	913.6	925.5	940.3	939.3	939.6
35°	807.8	797.6	782.8	785.5	799.6	786.7	796.2	796.0	811.0	807.5	811.7
37.5°	732.6	703.7	670.8	652.0	654.7	638.5	635.3	643.1	648.4	638.2	641.9
40°	652.3	609.6	558.4	515.7	513.3	493.2	489.7	481.8	492.0	483.5	486.1
42.5°	593.2	536.6	469.3	417.3	406.3	389.4	379.6	378.2	381.3	375.3	373.6
45°	547.8	487.7	410.5	351.0	338.5	320.4	310.5	306.9	307.3	305.4	303.7
47.5°	494.6	434.2	355.9	295.2	281.0	263.9	254.0	251.8	253.0	250.4	248.4
50°	420.9	366.8	295.5	239.9	227.5	214.9	207.0	204.7	204.5	202.5	201.1
52.5°	341.8	296.7	235.0	188.7	177.5	165.3	159.7	156.7	157.1	155.1	153.1
55°	264.6	236.6	182.1	142.6	132.4	122.9	117.7	114.0	113.1	111.1	110.1
57.5°	196.8	178.1	136.4	102.9	97.0	87.8	82.5	78.2	77.6	76.6	76.2
60°	138.0	124.5	96.0	73.3	66.4	60.8	55.5	51.2	49.3	49.0	48.0
62.5°	89.3	81.2	63.1	49.0	43.7	39.8	34.5	31.5	30.3	28.9	29.3
65°	55.5	49.3	39.5	31.5	28.6	25.7	21.6	19.1	17.7	16.5	16.8
67.5°	34.5	30.9	25.0	20.4	18.4	16.1	13.1	11.2	10.2	9.2	8.5
70°	23.3	20.1	17.0	14.5	13.1	11.5	9.5	7.8	7.2	6.6	5.9
72.5°	16.5	14.8	12.4	10.9	9.9	8.5	7.2	6.3	5.6	4.9	4.3
75°	11.9	10.5	9.2	7.8	7.2	6.6	5.6	4.9	4.3	3.6	2.9
77.5°	8.5	7.5	6.6	5.9	5.6	4.6	3.9	3.6	3.3	2.6	2.0
80°	5.9	5.3	4.3	3.9	3.9	3.3	2.9	2.6	2.4	1.7	1.3
82.5°	3.9	3.6	3.3	2.9	2.6	2.4	2.4	1.7	1.3	1.0	0.7
85°	2.9	2.6	2.4	2.0	2.0	1.7	1.3	1.0	1.0	0.7	0.3
87.5°	1.7	1.7	1.3	1.0	1.0	0.7	0.7	0.3	0.3	0.3	0.3
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°	1250.8	1250.8	1250.8	1250.8	1250.8	1250.8	1250.8	1250.8	1250.8	1250.8	1250.8
2.5°	1262.0	1262.9	1268.5	1264.3	1275.1	1283.0	1279.1	1287.9	1285.0	1284.3	1294.5
5°	1270.5	1272.8	1280.4	1276.5	1288.3	1296.8	1292.8	1302.7	1299.8	1299.1	1309.7
7.5°	1287.0	1289.3	1295.9	1292.5	1305.1	1312.6	1307.6	1318.5	1314.6	1314.3	1324.5
10°	1307.6	1311.0	1316.5	1313.3	1324.8	1331.3	1326.4	1336.9	1333.3	1331.6	1342.8
12.5°	1323.1	1325.5	1331.0	1328.4	1339.6	1344.5	1340.2	1350.4	1345.8	1344.5	1354.4
15°	1319.5	1321.8	1326.4	1324.1	1334.7	1339.3	1333.7	1344.8	1340.2	1337.6	1346.4
17.5°	1296.5	1297.8	1301.1	1298.8	1310.0	1312.9	1306.6	1317.8	1313.6	1309.0	1317.5
20°	1262.7	1262.0	1263.9	1262.9	1272.2	1273.8	1269.9	1278.1	1273.1	1270.5	1275.5
22.5°	1220.5	1219.9	1221.2	1218.6	1227.8	1228.8	1222.9	1232.8	1227.8	1222.9	1231.1
25°	1173.9	1170.3	1169.7	1170.7	1176.8	1177.8	1171.6	1178.8	1172.6	1168.6	1176.5
27.5°	1116.4	1111.8	1110.8	1111.8	1118.1	1113.5	1108.2	1113.5	1107.2	1103.6	1108.6
30°	1045.4	1038.8	1035.9	1033.9	1040.5	1038.8	1026.7	1032.6	1022.7	1017.5	1021.1
32.5°	949.8	946.1	938.3	933.7	940.0	927.4	919.9	919.9	916.0	907.0	909.0
35°	817.0	811.4	804.2	800.3	801.2	784.5	772.0	774.6	761.5	759.1	760.2
37.5°	649.1	639.9	637.3	629.0	631.0	616.2	599.1	599.4	592.6	585.3	583.0
40°	487.7	486.1	483.5	476.5	479.1	463.1	456.5	456.8	452.2	446.9	449.6
42.5°	377.0	371.7	370.0	367.8	368.4	365.8	357.3	358.3	354.2	353.0	351.7
45°	306.3	300.7	296.7	298.7	298.7	295.8	292.5	294.5	292.5	289.9	291.1
47.5°	252.4	247.2	245.2	244.8	247.2	245.2	241.9	242.6	242.2	241.2	240.6
50°	201.4	200.1	198.5	197.5	198.5	197.9	194.8	196.5	197.5	194.3	195.2
52.5°	153.5	153.5	153.1	150.9	152.8	150.9	150.6	151.2	150.2	148.9	148.5
55°	112.4	111.4	109.7	109.4	110.1	109.4	108.7	109.1	109.7	106.5	106.5
57.5°	76.9	76.2	75.2	75.2	76.6	74.9	74.0	75.2	74.0	72.6	72.6
60°	49.3	49.0	48.0	48.0	48.0	47.6	46.6	47.0	47.6	45.7	46.0
62.5°	29.6	28.6	28.2	27.9	28.2	27.9	27.9	27.6	27.2	27.2	26.3
65°	16.1	15.5	14.8	15.1	15.1	14.8	14.8	14.8	14.1	13.8	13.5
67.5°	8.2	7.5	7.5	7.2	7.2	7.2	7.2	7.0	7.0	7.0	6.6
70°	5.3	4.9	4.6	4.6	4.6	4.3	4.3	4.3	4.3	4.3	3.9
72.5°	3.6	3.3	2.9	2.9	2.9	2.6	2.6	2.6	2.6	2.4	2.4
75°	2.6	2.4	2.0	2.0	2.0	1.7	1.7	1.7	1.7	1.7	1.7
77.5°	1.7	1.3	1.3	1.3	1.3	1.0	1.0	1.0	1.0	1.0	0.7
80°	1.0	1.0	0.7	0.7	0.7	0.7	0.3	0.3	0.3	0.3	0.3
82.5°	0.7	0.7	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0
85°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
87.5°	0.3	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: P244154

CATALOG NUMBER: LD8B20D010 ER8B20930 8LBSW01

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1250.8	1250.8	1250.8	1250.8	1250.8	1250.8	1250.8	1250.8
2.5°	1290.9	1288.3	1289.9	1302.0	1296.8	1295.2	1281.4	1293.5
5°	1306.3	1304.4	1304.4	1318.2	1311.9	1310.7	1297.1	1307.6
7.5°	1320.8	1318.9	1319.2	1333.3	1328.4	1326.4	1312.9	1323.5
10°	1339.6	1338.2	1338.6	1352.0	1346.8	1344.8	1331.0	1341.8
12.5°	1350.7	1348.8	1348.8	1363.2	1357.3	1354.4	1341.2	1351.7
15°	1342.2	1339.3	1339.3	1353.7	1347.1	1342.8	1331.3	1341.2
17.5°	1312.9	1310.0	1310.0	1322.4	1317.5	1311.2	1299.5	1308.7
20°	1272.2	1268.5	1267.6	1282.1	1275.1	1269.5	1259.0	1267.9
22.5°	1226.1	1224.5	1221.6	1236.0	1229.7	1223.9	1212.7	1219.6
25°	1171.0	1168.3	1165.4	1179.5	1173.2	1167.3	1158.4	1164.0
27.5°	1102.3	1102.6	1100.9	1112.1	1105.9	1102.6	1091.7	1100.9
30°	1019.1	1015.5	1014.2	1027.3	1021.5	1017.2	1003.6	1012.6
32.5°	910.7	905.4	898.5	913.3	903.1	899.5	887.9	900.8
35°	753.0	751.3	745.0	757.6	752.0	745.4	738.2	748.9
37.5°	582.0	583.4	582.7	585.9	582.7	578.4	570.5	566.6
40°	444.4	441.0	438.4	444.4	437.4	437.4	432.8	437.8
42.5°	348.4	347.1	350.3	351.7	347.7	347.1	346.4	346.1
45°	287.5	287.5	288.2	289.6	288.2	287.5	285.6	284.3
47.5°	237.0	238.2	237.0	241.2	238.9	238.2	234.3	236.0
50°	191.9	190.2	191.9	193.3	193.6	191.6	189.7	190.6
52.5°	148.9	146.3	145.6	147.5	146.3	146.3	144.9	144.6
55°	104.8	105.8	104.1	105.8	105.1	104.1	103.2	104.5
57.5°	71.0	71.3	70.6	71.6	70.0	70.3	70.0	69.7
60°	46.0	44.7	44.7	45.7	44.1	44.1	43.7	43.7
62.5°	26.3	26.0	26.0	25.7	25.3	25.3	25.3	24.7
65°	13.5	13.1	12.8	12.8	12.8	12.8	12.4	12.4
67.5°	6.6	6.3	6.3	6.6	6.3	6.3	6.3	6.3
70°	3.9	3.9	3.6	3.9	3.6	3.6	3.6	3.6
72.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
75°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
77.5°	1.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
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)