

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: P246153

Luminaire Tested: **LD8B30D010 ER8B30940 8LBDW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246153  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B30D010 ER8B30940 8LBDW0B  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
90 CRI 4000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2472.0 lumens  
Efficiency: N/A  
Efficacy: 91.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

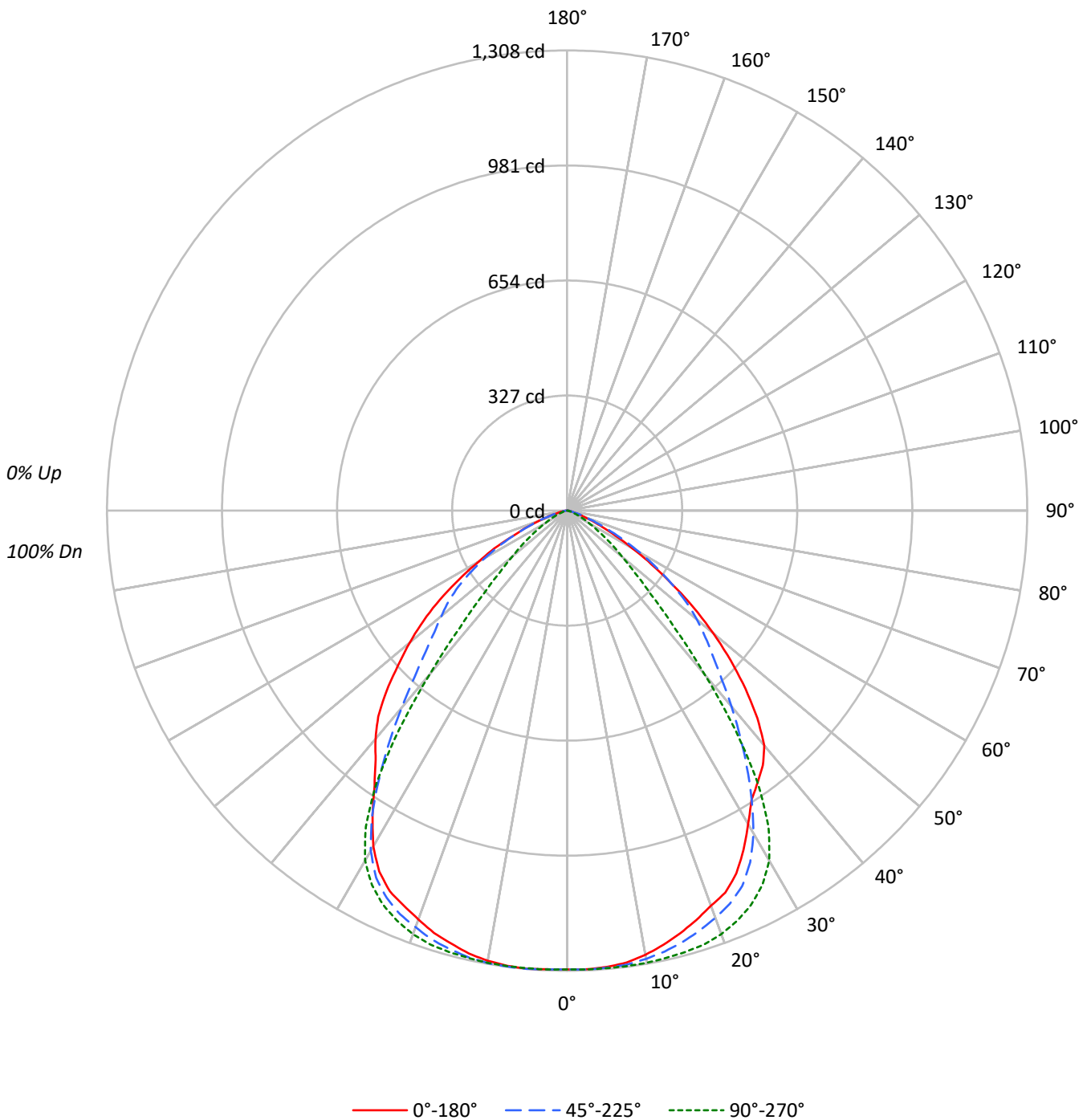
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90					90			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79					79			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62					62			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55					55			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	52	50					50			
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45					45			
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41					41			
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37					37			
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34					34			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	40220	40220	40220
5°	40308	40417	40460
10°	40139	40862	40687
15°	39694	41460	40678
20°	39218	42043	40573
25°	38709	42091	40615
30°	36618	40909	39239
35°	35525	35551	35920
40°	35085	24462	34099
45°	31263	14683	31691
50°	25996	9772	28011
55°	19494	6736	23752
60°	13210	4490	17916
65°	7968	2911	12309
70°	4418	1578	7573
75°	2002	667	3920
80°	1740	746	2735
85°	1981	991	2724



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.5	5.0
10°-20°	361.5	14.6
20°-30°	548.7	22.2
30°-40°	576.3	23.3
40°-50°	432.1	17.5
50°-60°	277.2	11.2
60°-70°	118.6	4.8
70°-80°	28.0	1.1
80°-90°	5.2	0.2
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°	1034.7	41.9
0°-40°	1610.9	65.2
0°-60°	2320.2	93.9
0°-90°	2472.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2472.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1304	1304	1304	1304	1304	
5°	1302	1304	1306	1308	1307	124
15°	1243	1269	1299	1290	1274	351
25°	1138	1178	1237	1215	1194	520
35°	944	891	944	933	954	592
45°	717	586	337	569	727	549
55°	363	363	125	378	442	329
65°	109	129	40	166	169	117
75°	17	20	6	34	33	24
85°	6	4	3	6	8	6
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1305.0	1306.4	1305.7	1305.7	1305.0	1305.7	1305.7	1307.1	1307.1	1305.7	1305.0
5°	1302.2	1303.6	1303.6	1302.2	1302.2	1305.7	1303.6	1305.0	1305.0	1304.3	1304.3
7.5°	1295.9	1295.9	1298.7	1296.6	1296.6	1298.7	1298.0	1299.4	1300.8	1301.5	1301.5
10°	1281.9	1283.3	1284.0	1284.0	1284.7	1286.8	1288.2	1291.0	1292.4	1293.8	1294.5
12.5°	1264.4	1266.5	1267.2	1266.5	1268.6	1271.4	1274.9	1278.4	1280.5	1283.3	1285.4
15°	1243.4	1243.4	1244.8	1246.9	1248.3	1252.5	1256.0	1260.2	1265.8	1269.3	1272.8
17.5°	1220.3	1221.7	1223.8	1223.8	1226.6	1233.6	1235.7	1242.0	1248.3	1251.8	1258.8
20°	1195.1	1196.5	1198.6	1200.0	1203.5	1209.1	1213.3	1218.9	1225.9	1232.2	1239.2
22.5°	1175.5	1172.7	1174.1	1175.5	1179.0	1183.9	1188.8	1195.8	1202.8	1209.1	1216.1
25°	1137.7	1138.4	1140.5	1141.8	1146.1	1150.3	1155.9	1164.3	1170.6	1177.6	1185.3
27.5°	1086.6	1087.3	1090.7	1090.7	1094.2	1101.2	1104.7	1111.7	1120.2	1127.1	1136.3
30°	1028.4	1029.8	1029.8	1032.6	1034.7	1038.2	1041.7	1048.7	1052.9	1059.2	1071.9
32.5°	975.2	976.6	975.9	975.2	973.1	972.4	971.7	973.1	974.5	976.6	981.5
35°	943.7	940.2	937.4	932.5	926.9	919.9	913.6	905.2	897.5	891.2	884.2
37.5°	913.6	912.9	908.7	901.7	890.5	877.9	863.2	845.0	826.8	807.2	788.3
40°	871.6	869.5	866.0	856.2	843.6	828.2	808.6	786.2	756.8	726.7	695.9
42.5°	800.2	800.9	796.7	789.0	777.1	762.4	742.1	717.6	686.1	650.4	610.5
45°	716.9	716.9	715.5	709.2	700.8	688.9	673.5	653.2	622.4	586.0	543.3
47.5°	630.1	630.8	628.7	627.3	623.8	616.1	604.9	589.5	567.8	532.8	490.1
50°	541.9	541.9	545.4	544.7	544.7	541.9	537.0	527.9	509.0	481.0	441.1
52.5°	453.7	455.1	457.2	460.0	463.5	469.1	463.5	459.3	447.4	425.7	391.4
55°	362.6	364.1	367.5	372.4	376.7	382.3	383.6	383.6	377.3	362.6	336.7
57.5°	284.9	282.8	285.6	289.8	295.4	301.0	305.2	310.1	309.4	299.6	278.6
60°	214.2	214.9	217.0	221.2	225.4	230.3	235.9	240.1	242.2	237.3	224.0
62.5°	156.1	156.1	158.9	163.1	165.2	172.2	175.7	177.8	179.9	179.2	170.8
65°	109.2	110.6	112.0	114.1	116.2	120.4	122.5	126.7	128.1	128.8	122.5
67.5°	77.0	74.9	76.3	77.7	79.8	82.6	86.8	86.8	88.9	88.9	84.7
70°	49.0	49.0	49.7	51.8	53.2	53.9	55.3	56.7	58.8	58.1	58.1
72.5°	32.9	32.2	32.9	33.6	34.3	36.4	36.4	37.1	38.5	39.2	36.4
75°	16.8	17.5	18.9	18.2	20.3	18.9	19.6	21.7	21.0	19.6	19.6
77.5°	14.0	14.0	14.0	13.3	14.7	14.7	14.0	15.4	14.7	14.7	14.0
80°	9.8	10.5	9.8	9.1	9.8	9.1	9.1	9.1	9.1	9.1	8.4
82.5°	7.7	6.3	7.0	6.3	7.0	7.0	6.3	5.6	5.6	6.3	5.6
85°	5.6	4.2	4.9	4.9	4.2	4.2	4.2	4.2	4.2	3.5	3.5
87.5°	3.5	2.1	2.1	2.1	2.8	2.8	2.8	2.1	2.8	2.8	1.4
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1306.4	1305.7	1307.1	1306.4	1306.4	1305.7	1306.4	1305.7	1307.1	1304.3	1305.0
5°	1306.4	1305.0	1305.7	1306.4	1307.1	1305.7	1305.7	1305.7	1307.1	1305.7	1306.4
7.5°	1303.6	1302.9	1305.0	1306.4	1305.7	1305.0	1306.4	1305.7	1307.1	1306.4	1307.8
10°	1298.0	1298.7	1300.1	1302.2	1302.9	1303.6	1305.0	1305.0	1307.1	1304.3	1305.7
12.5°	1289.6	1292.4	1295.9	1297.3	1300.1	1300.1	1301.5	1302.2	1303.6	1302.9	1305.0
15°	1279.1	1282.6	1286.8	1290.3	1293.8	1295.9	1298.0	1298.7	1300.8	1298.7	1299.4
17.5°	1266.5	1270.7	1277.0	1281.2	1286.8	1288.9	1291.7	1293.1	1295.2	1293.8	1294.5
20°	1249.0	1253.9	1260.9	1267.2	1270.7	1275.6	1279.1	1281.2	1282.6	1281.2	1281.9
22.5°	1224.5	1231.5	1240.6	1245.5	1252.5	1256.7	1257.4	1262.3	1265.8	1262.3	1263.7
25°	1195.8	1202.8	1209.8	1220.3	1226.6	1231.5	1236.4	1237.1	1240.6	1239.9	1239.2
27.5°	1148.2	1157.3	1169.2	1177.6	1186.0	1193.7	1199.3	1200.7	1204.2	1202.8	1203.5
30°	1083.0	1092.9	1104.1	1117.4	1129.3	1136.9	1144.0	1148.9	1152.3	1150.3	1149.6
32.5°	990.6	1000.4	1012.3	1025.6	1039.6	1050.8	1059.2	1065.5	1069.7	1068.3	1064.8
35°	884.9	887.7	895.4	905.9	917.8	929.7	937.4	944.4	949.3	950.7	950.7
37.5°	776.4	767.3	761.7	761.7	768.7	773.6	780.6	784.8	792.5	795.3	797.4
40°	671.4	650.4	630.8	616.1	606.3	605.6	605.6	607.7	614.7	623.8	632.2
42.5°	577.6	544.0	513.9	486.6	467.0	455.8	450.9	451.6	457.2	465.6	479.6
45°	502.7	460.7	422.9	390.0	363.3	345.8	337.4	336.7	340.9	350.7	366.2
47.5°	444.6	399.8	357.0	319.2	290.5	271.6	261.8	259.0	261.8	270.9	289.1
50°	396.3	350.1	305.9	266.7	235.9	216.3	207.2	203.7	207.2	214.9	233.1
52.5°	351.4	303.8	262.5	224.7	191.8	175.0	165.2	163.1	165.2	174.3	189.0
55°	299.6	259.0	218.4	180.6	151.9	135.1	127.4	125.3	127.4	135.8	151.2
57.5°	248.5	213.5	177.8	143.5	119.0	104.3	97.3	94.5	99.4	105.0	123.2
60°	200.9	172.9	142.8	112.7	92.4	79.1	73.5	72.8	74.2	81.2	93.8
62.5°	157.5	134.4	110.6	86.1	69.3	63.7	56.7	56.0	57.4	61.6	71.4
65°	113.4	98.7	80.5	63.0	49.7	42.0	39.2	39.9	41.3	44.1	53.2
67.5°	79.1	68.6	56.0	44.1	34.3	30.8	28.0	27.3	28.0	32.9	37.8
70°	53.2	46.9	37.8	33.6	23.8	18.9	19.6	17.5	20.3	20.3	24.5
72.5°	35.0	30.8	25.2	19.6	16.8	13.3	13.3	12.6	14.0	14.7	18.2
75°	18.2	14.0	14.0	9.8	7.0	3.5	6.3	5.6	4.9	5.6	7.0
77.5°	12.6	10.5	9.8	7.7	7.0	5.6	5.6	5.6	5.6	6.3	7.0
80°	7.7	7.7	5.6	4.9	4.2	3.5	4.2	4.2	4.2	4.2	4.9
82.5°	4.9	4.2	4.2	3.5	3.5	2.8	2.8	2.8	2.8	2.8	4.2
85°	4.2	2.8	2.8	2.1	2.8	4.9	2.1	2.8	2.8	2.8	2.1
87.5°	1.4	2.1	2.1	2.1	1.4	0.7	1.4	2.1	2.1	3.5	2.8
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1306.4	1307.1	1307.1	1306.4	1306.4	1305.0	1307.8	1305.7	1306.4	1309.2	1307.1
5°	1307.8	1308.5	1308.5	1307.8	1307.8	1307.8	1308.5	1308.5	1307.8	1307.1	1308.5
7.5°	1310.6	1309.9	1309.9	1308.5	1308.5	1307.1	1308.5	1306.4	1307.8	1306.4	1308.5
10°	1307.1	1307.8	1307.1	1306.4	1306.4	1305.7	1305.7	1303.6	1304.3	1302.2	1303.6
12.5°	1305.0	1304.3	1304.3	1302.9	1301.5	1300.1	1299.4	1297.3	1297.3	1292.4	1294.5
15°	1299.4	1300.1	1298.0	1295.2	1293.8	1290.3	1288.9	1286.1	1283.3	1279.8	1280.5
17.5°	1294.5	1292.4	1289.6	1286.8	1281.2	1278.4	1275.6	1271.4	1270.0	1265.8	1264.4
20°	1279.8	1278.4	1274.9	1270.0	1266.5	1260.2	1257.4	1253.2	1249.7	1245.5	1243.4
22.5°	1260.9	1259.5	1255.3	1250.4	1244.8	1242.0	1239.2	1231.5	1228.0	1223.8	1223.1
25°	1237.1	1235.0	1230.8	1225.2	1222.4	1214.7	1211.9	1206.3	1204.9	1200.7	1200.0
27.5°	1200.7	1197.9	1193.0	1186.0	1181.1	1176.2	1173.4	1169.2	1167.8	1163.6	1162.9
30°	1146.1	1142.5	1132.8	1130.0	1121.5	1116.6	1116.6	1111.0	1111.7	1109.0	1109.0
32.5°	1059.9	1054.3	1046.6	1041.0	1035.4	1032.6	1032.6	1030.5	1031.9	1031.9	1033.3
35°	945.8	938.1	933.9	930.4	930.4	933.2	941.6	943.7	947.9	951.4	954.2
37.5°	799.5	798.8	803.7	807.9	818.4	830.3	845.0	857.6	869.5	877.9	886.3
40°	641.3	658.8	672.8	692.4	708.5	731.6	758.2	779.9	800.2	814.9	830.3
42.5°	500.6	523.0	552.4	581.1	609.8	641.3	676.3	706.4	733.0	753.3	769.4
45°	390.0	420.8	456.5	492.9	530.0	569.2	605.6	636.4	664.4	685.4	701.5
47.5°	314.3	347.9	388.5	428.5	470.5	511.8	552.4	579.0	602.1	618.9	633.6
50°	259.7	295.4	338.1	383.6	425.7	467.0	502.0	527.9	546.8	561.5	570.6
52.5°	217.0	254.8	300.3	345.8	387.8	425.7	457.2	476.8	492.2	502.7	511.1
55°	179.2	215.6	258.3	301.0	342.3	378.0	403.9	418.7	430.6	436.9	441.8
57.5°	146.3	179.9	219.1	258.3	294.0	323.5	343.8	358.4	364.1	369.0	368.2
60°	114.8	146.3	182.0	215.6	246.4	270.2	284.9	293.3	297.5	299.6	298.2
62.5°	90.3	119.0	146.3	175.7	198.1	218.4	232.4	232.4	234.5	235.2	237.3
65°	67.2	88.9	112.7	134.4	152.6	165.9	173.6	175.7	178.5	177.8	176.4
67.5°	49.7	65.8	83.3	99.4	112.0	120.4	126.0	130.9	130.2	128.8	128.1
70°	34.3	44.8	60.2	70.0	79.1	87.5	88.9	89.6	90.3	91.0	89.6
72.5°	23.8	31.5	39.9	48.3	53.9	57.4	60.9	61.6	61.6	61.6	60.9
75°	11.9	16.1	23.8	27.3	32.2	33.6	36.4	36.4	38.5	35.7	35.0
77.5°	10.5	12.6	16.8	19.6	21.7	23.8	24.5	26.6	25.9	24.5	25.2
80°	6.3	7.7	10.5	11.9	14.7	15.4	16.1	16.8	16.1	16.8	16.8
82.5°	4.9	5.6	7.0	7.0	9.1	9.1	9.8	9.8	10.5	10.5	10.5
85°	2.8	4.9	4.2	8.4	5.6	5.6	7.0	8.4	7.0	7.0	8.4
87.5°	2.8	2.8	2.1	2.8	2.8	2.8	3.5	4.2	4.2	4.9	4.2
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: P246153

CATALOG NUMBER: LD8B30D010 ER8B30940 8LBDW0B

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1304.3	1304.3	1304.3	1304.3
2.5°	1306.4	1307.8	1305.7	1305.0
5°	1308.5	1308.5	1307.1	1307.1
7.5°	1308.5	1308.5	1306.4	1305.0
10°	1302.9	1302.9	1300.8	1299.4
12.5°	1292.4	1292.4	1291.7	1289.6
15°	1279.1	1279.1	1276.3	1274.2
17.5°	1260.9	1262.3	1258.8	1258.8
20°	1241.3	1240.6	1237.8	1236.4
22.5°	1221.0	1219.6	1218.9	1214.7
25°	1199.3	1197.9	1195.8	1193.7
27.5°	1162.2	1161.5	1159.4	1156.6
30°	1105.4	1104.7	1102.0	1102.0
32.5°	1031.9	1031.2	1028.4	1029.1
35°	955.6	958.4	957.0	954.2
37.5°	891.9	894.0	895.4	894.0
40°	838.7	845.0	845.7	847.1
42.5°	782.0	790.4	793.2	794.6
45°	714.1	721.8	728.1	726.7
47.5°	644.8	650.4	656.0	651.8
50°	578.3	581.8	583.9	583.9
52.5°	515.3	515.3	514.6	515.3
55°	443.2	443.2	440.4	441.8
57.5°	367.5	369.0	366.8	363.3
60°	297.5	294.0	292.6	290.5
62.5°	231.7	231.7	226.8	233.1
65°	173.6	171.5	169.4	168.7
67.5°	126.0	125.3	123.2	122.5
70°	88.9	86.1	85.4	84.0
72.5°	59.5	59.5	58.1	58.1
75°	36.4	32.9	32.2	32.9
77.5°	25.2	24.5	24.5	23.8
80°	16.8	16.1	17.5	15.4
82.5°	10.5	11.2	10.5	11.2
85°	7.0	8.4	7.7	7.7
87.5°	4.2	4.2	4.2	4.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)