

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: P244111

Luminaire Tested: **LSR8B15D010 EC8B15850 8LBSW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244111  
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: LSR8B15D010 EC8B15850 8LBSW0LI  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1653.0 lumens  
Efficiency: N/A  
Efficacy: 114.8 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

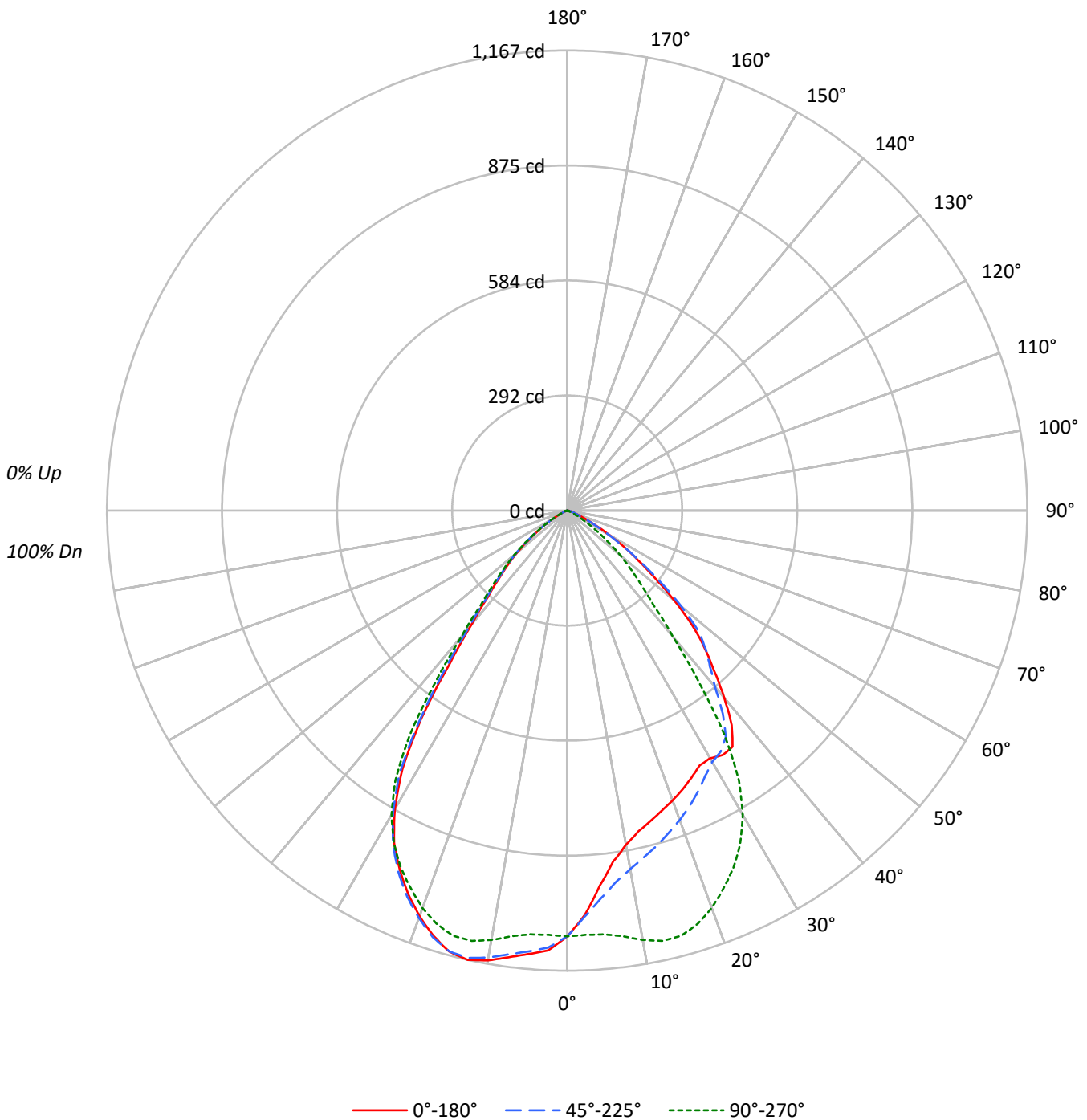
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	90°	180°
0°	33300	33300	33300
5°	29546	33384	34947
10°	26938	34622	36275
15°	26031	35634	36965
20°	25662	35194	35920
25°	25409	33980	34194
30°	25822	31711	31127
35°	27525	26242	24341
40°	24945	16802	15212
45°	21530	11495	10702
50°	16987	8386	7896
55°	11790	5156	4849
60°	7506	2609	2325
65°	3750	1036	788
70°	2074	514	279
75°	1489	369	131
80°	1208	249	53
85°	1309	212	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.6	6.1
10°-20°	290.7	17.6
20°-30°	421.9	25.5
30°-40°	415.6	25.1
40°-50°	260.5	15.8
50°-60°	125.7	7.6
60°-70°	30.4	1.8
70°-80°	6.1	0.4
80°-90°	1.4	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°	813.3	49.2
0°-40°	1228.8	74.3
0°-60°	1615.0	97.7
0°-90°	1653.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1653.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1080	1080	1080	1080	1080	
5°	954	987	1078	1122	1129	88
15°	815	880	1116	1157	1158	231
25°	747	786	999	1012	1005	346
35°	731	701	697	657	647	442
45°	494	497	264	252	245	377
55°	219	226	96	95	90	202
65°	51	51	14	12	11	59
75°	12	11	3	1	1	14
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°	1079.9	1079.9	1079.9	1079.9	1079.9	1079.9	1079.9	1079.9	1079.9	1079.9	1079.9
2.5°	1026.5	1020.0	1007.8	1022.6	1022.6	1014.3	1030.8	1020.9	1028.8	1041.3	1030.2
5°	954.5	949.1	938.9	954.5	956.4	948.8	968.6	961.3	972.9	988.2	986.8
7.5°	897.4	890.6	881.3	897.4	900.6	895.4	914.5	911.1	926.4	946.2	949.6
10°	860.3	853.2	844.9	859.7	862.0	858.6	877.9	875.9	890.9	913.9	923.0
12.5°	833.9	827.9	818.8	834.4	837.0	832.2	850.3	849.5	865.1	889.2	900.6
15°	815.4	808.3	800.1	813.5	816.9	811.5	828.8	827.1	843.0	866.8	879.6
17.5°	798.1	791.6	783.1	795.6	799.0	793.3	810.3	807.5	821.1	843.8	856.9
20°	782.0	774.9	767.2	780.0	782.0	775.4	792.5	788.8	801.0	822.0	834.7
22.5°	765.2	757.8	749.9	762.4	764.4	757.8	773.4	769.2	780.5	799.5	811.2
25°	746.8	740.0	732.0	743.7	745.4	738.3	754.7	749.3	759.3	776.0	785.6
27.5°	728.3	721.8	713.0	724.9	725.8	719.0	734.0	726.6	734.9	750.2	758.4
30°	725.2	717.8	708.8	718.4	718.7	709.9	724.1	715.3	719.8	731.2	736.0
32.5°	735.1	727.8	718.4	726.3	725.5	715.8	729.5	718.7	720.1	726.1	724.9
35°	731.2	722.4	711.3	719.8	719.8	708.2	721.8	709.0	707.6	708.5	701.4
37.5°	686.1	679.2	668.7	677.0	676.1	667.3	677.8	667.3	662.5	660.5	647.8
40°	619.7	611.4	603.5	612.3	613.1	603.8	617.4	605.5	604.1	598.4	583.3
42.5°	552.4	549.6	541.9	549.3	553.3	545.3	556.7	551.0	551.9	550.4	536.2
45°	493.7	488.9	483.2	491.7	494.3	490.3	501.6	498.2	501.6	508.7	497.1
47.5°	430.4	425.6	419.4	428.4	433.0	425.6	435.2	434.1	439.2	451.4	450.3
50°	354.1	350.7	349.6	350.7	353.5	350.1	356.9	357.2	360.6	377.4	378.5
52.5°	280.3	279.5	275.5	279.2	279.2	273.8	280.6	277.5	280.9	292.2	299.6
55°	219.3	218.5	215.9	219.3	215.6	213.6	215.6	212.5	210.0	218.8	226.4
57.5°	170.8	168.0	164.8	166.3	166.0	161.7	164.0	160.3	158.3	161.4	168.3
60°	121.7	120.9	118.0	119.4	120.6	117.5	119.7	118.0	114.6	117.2	117.5
62.5°	80.9	81.4	79.7	80.0	79.2	78.6	80.0	80.9	80.0	78.9	79.2
65°	51.4	51.1	50.8	51.1	51.6	50.5	51.4	51.9	51.1	51.1	50.8
67.5°	34.0	33.2	32.3	32.9	33.5	32.6	33.5	33.2	33.5	33.2	32.3
70°	23.0	22.7	22.4	22.7	22.7	22.1	22.7	22.4	22.7	22.4	21.6
72.5°	16.7	16.7	16.5	16.7	16.7	16.2	16.5	15.9	16.2	15.9	15.3
75°	12.5	12.5	12.2	12.5	12.2	11.9	12.2	11.9	11.3	11.3	10.8
77.5°	9.1	9.1	9.1	9.1	9.1	8.8	8.8	8.5	8.2	7.9	7.9
80°	6.8	6.5	6.5	6.5	6.5	6.2	6.5	6.2	6.0	5.7	5.4
82.5°	4.8	5.1	4.8	4.8	4.8	4.5	4.8	4.5	4.5	4.3	3.7
85°	3.7	3.7	3.7	3.7	3.7	3.4	3.4	3.4	3.1	3.1	2.8
87.5°	2.0	2.0	2.0	2.3	2.0	2.0	2.0	1.7	1.7	1.4	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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1079.9	1079.9	1079.9	1079.9	1079.9	1079.9	1079.9	1079.9	1079.9	1079.9	1079.9
2.5°	1045.0	1046.4	1043.3	1048.1	1066.8	1051.8	1058.0	1060.0	1074.2	1076.8	1075.0
5°	1005.3	1011.5	1015.5	1026.2	1047.0	1036.2	1047.2	1054.3	1072.5	1078.5	1079.9
7.5°	974.0	987.1	996.7	1014.3	1038.7	1030.5	1047.2	1058.9	1081.0	1088.7	1092.4
10°	950.8	970.6	987.4	1011.5	1039.0	1033.6	1055.5	1071.9	1096.6	1105.7	1110.2
12.5°	933.2	957.3	979.7	1010.4	1040.1	1037.6	1064.0	1082.7	1108.8	1117.9	1123.3
15°	913.9	941.7	967.8	1002.1	1034.2	1033.6	1062.0	1081.9	1108.5	1116.2	1121.3
17.5°	890.9	920.7	949.4	986.5	1018.3	1018.9	1047.5	1067.1	1093.2	1099.4	1102.9
20°	867.6	897.2	925.8	964.1	995.3	996.2	1024.3	1042.4	1067.4	1072.5	1073.3
22.5°	843.0	870.5	899.1	937.2	967.2	967.8	995.6	1012.6	1033.9	1036.5	1038.7
25°	814.9	841.8	868.8	906.5	935.2	936.9	962.1	977.2	996.7	998.7	999.6
27.5°	785.6	807.8	833.6	865.9	894.9	893.7	917.6	934.6	952.2	951.1	950.8
30°	756.1	774.6	790.5	821.7	843.0	843.8	866.2	874.5	892.9	890.6	890.3
32.5°	735.4	740.2	744.5	760.4	780.5	773.4	788.8	799.0	811.7	810.9	811.2
35°	697.4	688.6	675.8	678.1	690.3	679.2	687.5	687.2	700.2	697.1	700.8
37.5°	632.4	607.5	579.1	562.9	565.2	551.3	548.4	555.3	559.8	551.0	554.1
40°	563.2	526.3	482.1	445.2	443.2	425.9	422.8	415.9	424.7	417.4	419.6
42.5°	512.1	463.3	405.2	360.3	350.7	336.2	327.7	326.6	329.1	324.0	322.6
45°	473.0	421.1	354.4	303.0	292.2	276.6	268.1	265.0	265.3	263.6	262.2
47.5°	427.0	374.8	307.3	254.8	242.6	227.8	219.3	217.3	218.5	216.2	214.5
50°	363.5	316.6	255.1	207.1	196.3	185.6	178.7	176.8	176.5	174.8	173.6
52.5°	295.1	256.2	202.9	162.9	153.2	142.7	137.9	135.3	135.6	133.9	132.2
55°	228.4	204.3	157.2	123.1	114.3	106.1	101.6	98.5	97.6	95.9	95.0
57.5°	170.0	153.8	117.7	88.8	83.7	75.8	71.2	67.5	67.0	66.1	65.8
60°	119.2	107.5	82.8	63.3	57.3	52.5	48.0	44.3	42.6	42.3	41.4
62.5°	77.2	70.1	54.5	42.3	37.7	34.3	29.8	27.2	26.1	25.0	25.3
65°	48.0	42.6	34.0	27.2	24.7	22.1	18.7	16.5	15.3	14.2	14.5
67.5°	29.8	26.7	21.6	17.6	15.9	13.9	11.3	9.6	8.8	7.9	7.4
70°	20.1	17.3	14.8	12.5	11.3	9.9	8.2	6.8	6.2	5.7	5.1
72.5°	14.2	12.8	10.8	9.4	8.5	7.4	6.2	5.4	4.8	4.3	3.7
75°	10.2	9.1	7.9	6.8	6.2	5.7	4.8	4.3	3.7	3.1	2.6
77.5°	7.4	6.5	5.7	5.1	4.8	4.0	3.4	3.1	2.8	2.3	1.7
80°	5.1	4.5	3.7	3.4	3.4	2.8	2.6	2.3	2.0	1.4	1.1
82.5°	3.4	3.1	2.8	2.6	2.3	2.0	2.0	1.4	1.1	0.9	0.6
85°	2.6	2.3	2.0	1.7	1.7	1.4	1.1	0.9	0.9	0.6	0.3
87.5°	1.4	1.4	1.1	0.9	0.9	0.6	0.6	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°	1079.9	1079.9	1079.9	1079.9	1079.9	1079.9	1079.9	1079.9	1079.9	1079.9	1079.9
2.5°	1089.5	1090.4	1095.2	1091.5	1100.9	1107.7	1104.3	1111.9	1109.4	1108.8	1117.6
5°	1096.9	1098.9	1105.4	1102.0	1112.2	1119.6	1116.2	1124.7	1122.1	1121.6	1130.7
7.5°	1111.1	1113.1	1118.7	1115.9	1126.7	1133.2	1129.0	1138.3	1134.9	1134.6	1143.4
10°	1129.0	1131.8	1136.6	1133.8	1143.7	1149.4	1145.1	1154.2	1151.1	1149.7	1159.3
12.5°	1142.3	1144.3	1149.1	1146.8	1156.5	1160.7	1157.0	1165.8	1161.9	1160.7	1169.2
15°	1139.2	1141.2	1145.1	1143.1	1152.2	1156.2	1151.4	1161.0	1157.0	1154.8	1162.4
17.5°	1119.3	1120.4	1123.3	1121.3	1130.9	1133.5	1128.1	1137.8	1134.1	1130.1	1137.5
20°	1090.1	1089.5	1091.2	1090.4	1098.3	1099.7	1096.3	1103.4	1099.2	1096.9	1101.2
22.5°	1053.8	1053.2	1054.3	1052.1	1060.0	1060.9	1055.8	1064.3	1060.0	1055.8	1062.8
25°	1013.5	1010.4	1009.8	1010.6	1016.0	1016.9	1011.5	1017.7	1012.3	1008.9	1015.7
27.5°	963.8	959.9	959.0	959.9	965.2	961.3	956.7	961.3	955.9	952.8	957.0
30°	902.5	896.9	894.3	892.6	898.3	896.9	886.4	891.5	883.0	878.4	881.5
32.5°	820.0	816.9	810.0	806.1	811.5	800.7	794.2	794.2	790.8	783.1	784.8
35°	705.3	700.5	694.3	690.9	691.7	677.3	666.5	668.7	657.4	655.4	656.3
37.5°	560.4	552.4	550.1	543.1	544.8	532.0	517.2	517.5	511.6	505.3	503.3
40°	421.1	419.6	417.4	411.4	413.7	399.8	394.1	394.4	390.4	385.9	388.1
42.5°	325.4	320.9	319.5	317.5	318.1	315.8	308.4	309.3	305.9	304.7	303.6
45°	264.4	259.6	256.2	257.9	257.9	255.4	252.5	254.2	252.5	250.2	251.4
47.5°	217.9	213.4	211.7	211.4	213.4	211.7	208.8	209.4	209.1	208.3	207.7
50°	173.9	172.8	171.4	170.5	171.4	170.8	168.3	169.7	170.5	167.7	168.5
52.5°	132.5	132.5	132.2	130.2	131.9	130.2	129.9	130.5	129.7	128.5	128.2
55°	97.0	96.2	94.8	94.5	95.0	94.5	93.9	94.2	94.8	91.9	91.9
57.5°	66.4	65.8	65.0	65.0	66.1	64.7	63.8	65.0	63.8	62.7	62.7
60°	42.6	42.3	41.4	41.4	41.4	41.1	40.3	40.6	41.1	39.4	39.7
62.5°	25.5	24.7	24.4	24.1	24.4	24.1	24.1	23.8	23.5	23.5	22.7
65°	13.9	13.3	12.8	13.1	13.1	12.8	12.8	12.8	12.2	11.9	11.6
67.5°	7.1	6.5	6.5	6.2	6.2	6.2	6.2	6.0	6.0	6.0	5.7
70°	4.5	4.3	4.0	4.0	4.0	3.7	3.7	3.7	3.7	3.7	3.4
72.5°	3.1	2.8	2.6	2.6	2.6	2.3	2.3	2.3	2.3	2.0	2.0
75°	2.3	2.0	1.7	1.7	1.7	1.4	1.4	1.4	1.4	1.4	1.4
77.5°	1.4	1.1	1.1	1.1	1.1	0.9	0.9	0.9	0.9	0.9	0.6
80°	0.9	0.9	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.3
82.5°	0.6	0.6	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: P244111

CATALOG NUMBER: LSR8B15D010 EC8B15850 8LBSW0LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1079.9	1079.9	1079.9	1079.9	1079.9	1079.9	1079.9	1079.9
2.5°	1114.5	1112.2	1113.6	1124.1	1119.6	1118.2	1106.3	1116.8
5°	1127.8	1126.1	1126.1	1138.0	1132.6	1131.5	1119.9	1129.0
7.5°	1140.3	1138.6	1138.9	1151.1	1146.8	1145.1	1133.5	1142.6
10°	1156.5	1155.3	1155.6	1167.3	1162.7	1161.0	1149.1	1158.5
12.5°	1166.1	1164.4	1164.4	1176.9	1171.8	1169.2	1157.9	1167.0
15°	1158.7	1156.2	1156.2	1168.7	1163.0	1159.3	1149.4	1157.9
17.5°	1133.5	1130.9	1130.9	1141.7	1137.5	1132.1	1121.9	1129.8
20°	1098.3	1095.2	1094.3	1106.8	1100.9	1096.0	1087.0	1094.6
22.5°	1058.6	1057.2	1054.6	1067.1	1061.7	1056.6	1047.0	1052.9
25°	1010.9	1008.7	1006.1	1018.3	1012.9	1007.8	1000.1	1005.0
27.5°	951.6	951.9	950.5	960.1	954.7	951.9	942.5	950.5
30°	879.8	876.7	875.6	886.9	881.8	878.1	866.5	874.2
32.5°	786.2	781.7	775.7	788.5	779.7	776.6	766.6	777.7
35°	650.0	648.6	643.2	654.0	649.2	643.5	637.3	646.6
37.5°	502.5	503.6	503.1	505.9	503.1	499.4	492.6	489.1
40°	383.6	380.8	378.5	383.6	377.6	377.6	373.7	377.9
42.5°	300.8	299.6	302.5	303.6	300.2	299.6	299.1	298.8
45°	248.3	248.3	248.8	250.0	248.8	248.3	246.6	245.4
47.5°	204.6	205.7	204.6	208.3	206.3	205.7	202.3	203.7
50°	165.7	164.3	165.7	166.8	167.1	165.4	163.7	164.6
52.5°	128.5	126.3	125.7	127.4	126.3	126.3	125.1	124.8
55°	90.5	91.4	89.9	91.4	90.8	89.9	89.1	90.2
57.5°	61.3	61.6	61.0	61.9	60.4	60.7	60.4	60.2
60°	39.7	38.6	38.6	39.4	38.0	38.0	37.7	37.7
62.5°	22.7	22.4	22.4	22.1	21.8	21.8	21.8	21.3
65°	11.6	11.3	11.1	11.1	11.1	11.1	10.8	10.8
67.5°	5.7	5.4	5.4	5.7	5.4	5.4	5.4	5.4
70°	3.4	3.4	3.1	3.4	3.1	3.1	3.1	3.1
72.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
75°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
77.5°	0.9	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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)