

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: P245517

Luminaire Tested: **LSR8B30D010 EC8B309727 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245517
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B30D010 EC8B309727 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2201.0 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

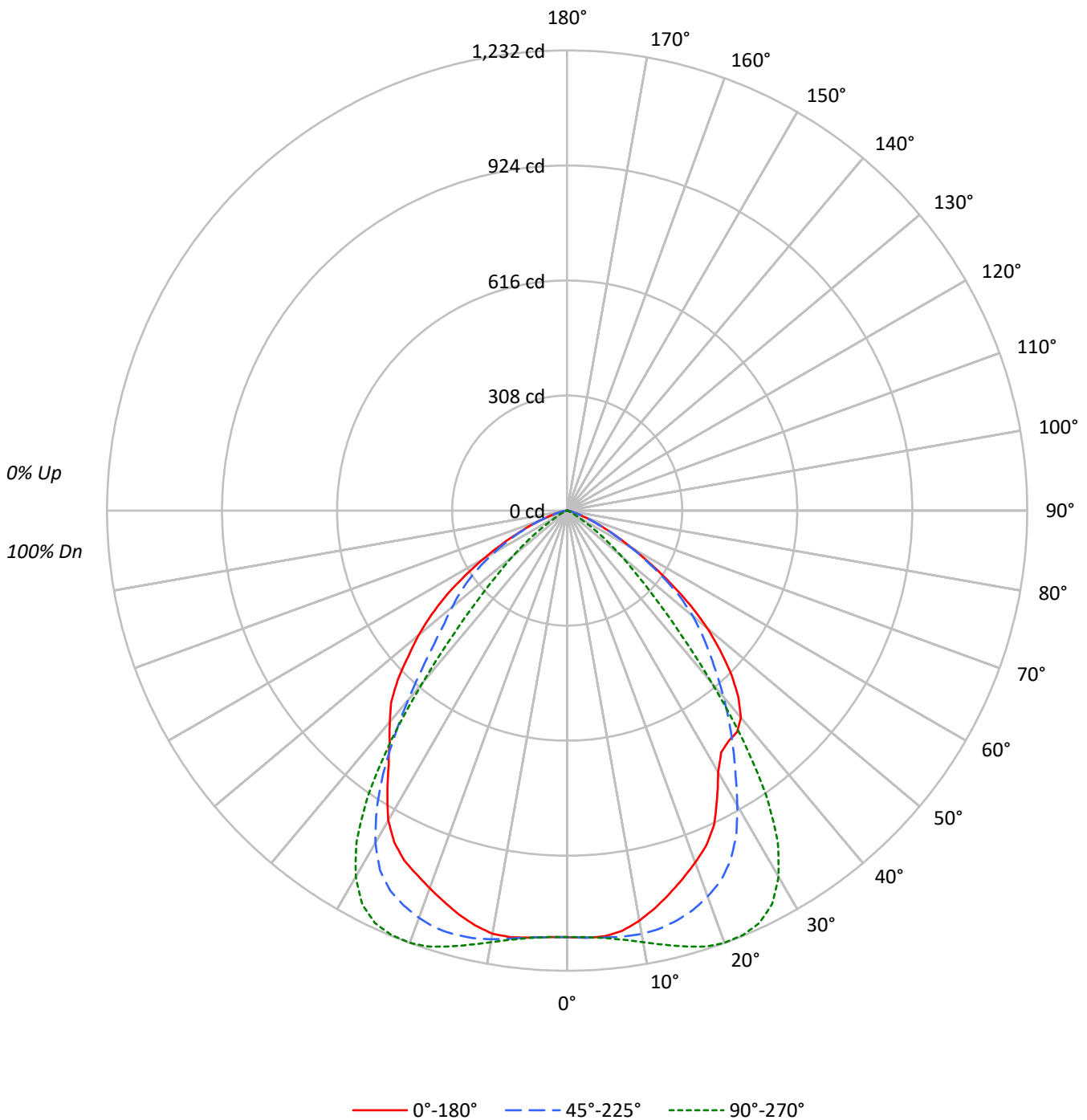
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90						
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79						
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70						
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62						
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56						
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50						
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45						
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41						
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38						
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34						

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°	109.8	5.0
10°-20°	325.3	14.8
20°-30°	496.3	22.5
30°-40°	517.9	23.5
40°-50°	389.0	17.7
50°-60°	239.3	10.9
60°-70°	97.4	4.4
70°-80°	22.9	1.0
80°-90°	3.1	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°	931.3	42.3
0°-40°	1449.2	65.8
0°-60°	2077.5	94.4
0°-90°	2201.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2201.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1142	1142	1142	1142	1142	
5°	1144	1147	1148	1147	1147	108
15°	1061	1136	1208	1174	1119	299
25°	930	1034	1218	1122	1033	423
35°	753	774	928	858	833	476
45°	622	538	336	501	641	474
55°	336	319	88	319	393	302
65°	105	106	13	142	151	109
75°	18	18	2	32	33	22
85°	2	2	1	4	6	3
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°	1141.8	1141.8	1141.8	1141.8	1141.8	1141.8	1141.8	1141.8	1141.8	1141.8	1141.8
2.5°	1144.8	1143.0	1144.8	1144.8	1145.4	1144.2	1144.8	1145.4	1144.2	1144.2	1144.2
5°	1144.2	1143.0	1144.2	1143.6	1144.8	1144.8	1146.1	1146.1	1147.3	1147.3	1149.1
7.5°	1134.5	1132.1	1134.5	1136.4	1137.6	1140.0	1143.0	1145.4	1147.9	1150.3	1153.3
10°	1114.5	1114.5	1116.4	1120.0	1123.6	1127.9	1133.3	1139.4	1145.4	1150.9	1156.3
12.5°	1089.7	1087.9	1091.5	1096.3	1101.8	1108.5	1117.0	1126.1	1135.8	1146.7	1155.1
15°	1061.2	1059.4	1063.6	1068.5	1075.1	1084.8	1095.1	1107.3	1121.2	1135.8	1149.7
17.5°	1032.1	1031.5	1035.7	1042.4	1047.9	1058.2	1071.5	1086.0	1101.8	1121.2	1139.4
20°	1002.4	1001.8	1006.1	1011.5	1018.8	1028.5	1041.8	1058.8	1077.6	1099.4	1120.6
22.5°	971.5	972.1	975.7	981.8	987.9	998.2	1012.1	1029.1	1049.7	1073.3	1097.0
25°	929.7	926.7	931.5	937.6	947.9	956.3	969.7	987.9	1009.1	1033.9	1061.8
27.5°	869.1	868.5	872.7	878.2	887.3	897.6	912.1	930.9	953.3	980.6	1007.9
30°	808.5	809.7	811.5	817.0	823.0	833.3	847.9	863.6	884.8	910.9	940.0
32.5°	767.3	767.3	769.7	773.3	777.6	783.0	793.3	804.8	821.2	839.4	860.6
35°	753.3	750.9	753.3	753.9	754.5	755.8	757.6	761.2	766.7	774.5	782.4
37.5°	747.3	745.4	745.4	743.0	740.0	736.4	731.5	726.1	720.0	712.1	706.1
40°	723.6	722.4	721.2	718.8	712.1	704.8	697.0	684.2	670.3	650.9	631.5
42.5°	678.2	677.0	676.4	671.5	665.4	657.0	647.9	634.5	617.0	592.1	564.2
45°	621.8	619.4	617.6	613.3	609.1	601.8	593.3	581.2	563.6	538.2	504.8
47.5°	556.4	555.1	554.5	552.7	548.5	544.2	538.8	529.1	513.3	489.1	454.5
50°	490.3	487.9	489.1	488.5	486.7	483.6	480.0	473.3	461.2	439.4	407.9
52.5°	414.5	414.5	413.9	415.8	416.4	415.8	416.4	409.1	398.8	382.4	355.8
55°	335.7	335.7	337.6	340.0	342.4	343.0	342.4	339.4	332.1	318.8	295.1
57.5°	261.8	260.6	264.2	267.9	270.3	272.7	270.9	268.5	264.2	253.3	235.1
60°	199.4	199.4	201.8	204.2	206.7	209.1	208.5	207.9	204.2	197.0	182.4
62.5°	146.7	147.3	147.3	149.1	151.5	153.9	155.8	153.9	152.1	147.3	137.6
65°	104.8	104.2	104.8	106.7	108.5	110.9	112.1	111.5	109.7	106.1	98.8
67.5°	70.3	69.7	72.1	72.7	73.9	76.4	75.8	76.4	75.8	72.7	66.7
70°	46.1	44.8	46.1	45.5	47.3	47.9	49.1	49.7	49.1	47.3	45.5
72.5°	28.5	27.9	28.5	29.1	29.7	30.3	31.5	31.5	30.9	29.7	27.3
75°	18.2	16.4	17.0	15.8	17.0	17.0	18.2	18.8	18.2	18.2	17.0
77.5°	10.9	10.9	10.9	10.9	10.9	10.9	10.9	11.5	12.1	10.9	10.3
80°	5.5	5.5	6.1	6.1	6.1	6.7	6.1	6.1	6.1	6.7	4.8
82.5°	4.2	3.6	3.6	3.6	4.2	3.6	3.6	3.6	3.6	3.6	3.6
85°	1.8	2.4	1.8	1.2	1.8	1.8	2.4	1.8	1.8	1.8	2.4
87.5°	0.6	0.6	0.0	0.0	0.0	0.6	0.0	0.6	0.6	1.2	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1141.8	1141.8	1141.8	1141.8	1141.8	1141.8	1141.8	1141.8	1141.8	1141.8	1141.8
2.5°	1144.8	1143.6	1143.6	1143.0	1144.2	1143.0	1143.6	1143.0	1143.0	1144.2	1143.0
5°	1149.1	1149.7	1148.5	1147.9	1149.7	1149.7	1149.7	1148.5	1148.5	1149.1	1148.5
7.5°	1155.1	1156.3	1157.0	1157.6	1158.8	1159.4	1159.4	1158.8	1158.2	1160.0	1157.6
10°	1161.8	1163.6	1167.3	1169.1	1172.1	1172.1	1173.3	1173.3	1172.1	1173.3	1172.7
12.5°	1159.4	1170.3	1176.4	1180.6	1184.8	1188.5	1189.7	1190.3	1189.7	1192.1	1189.7
15°	1163.6	1172.7	1182.4	1189.7	1197.6	1201.8	1203.0	1207.9	1209.1	1209.7	1206.1
17.5°	1157.0	1173.3	1183.6	1194.5	1206.1	1213.9	1221.2	1224.2	1224.8	1226.0	1221.2
20°	1141.8	1160.0	1175.7	1191.5	1204.8	1217.0	1223.0	1231.5	1229.1	1233.9	1227.3
22.5°	1121.2	1141.8	1161.8	1182.4	1196.4	1210.9	1223.6	1229.7	1232.7	1232.7	1225.4
25°	1088.5	1112.7	1134.5	1155.7	1177.0	1194.5	1209.1	1218.2	1220.0	1219.4	1210.9
27.5°	1037.6	1063.6	1089.1	1113.3	1139.4	1160.0	1177.0	1187.9	1190.9	1190.9	1181.8
30°	967.3	995.1	1020.0	1049.1	1075.8	1098.8	1122.4	1132.1	1137.6	1137.6	1127.3
32.5°	883.6	907.3	930.3	958.8	987.9	1013.9	1036.4	1049.7	1056.4	1055.7	1046.7
35°	792.7	804.2	821.8	843.0	869.1	893.3	915.1	927.9	939.4	938.8	930.3
37.5°	701.8	698.8	700.6	708.5	724.8	741.8	758.8	770.9	780.6	784.8	783.0
40°	612.7	597.0	581.8	576.4	577.6	583.6	592.7	601.8	612.7	618.2	620.6
42.5°	532.7	506.1	479.4	459.4	447.9	444.2	448.5	451.5	458.2	466.1	473.9
45°	468.5	432.7	397.6	366.7	347.3	335.7	333.3	335.7	339.4	347.3	357.6
47.5°	415.8	373.9	334.5	300.0	271.5	256.4	252.1	250.9	254.5	261.8	275.7
50°	369.1	327.3	283.6	243.6	213.9	197.0	190.9	188.5	192.7	198.2	210.9
52.5°	318.2	277.0	232.1	193.3	162.4	144.9	138.2	134.5	137.0	144.2	157.0
55°	263.0	224.8	184.2	144.2	114.5	98.2	90.3	87.9	90.3	98.2	110.9
57.5°	207.9	175.8	141.8	104.2	77.6	61.2	53.3	50.9	57.6	60.6	73.9
60°	162.4	136.4	107.3	76.4	53.3	40.6	32.7	30.9	33.9	39.4	50.3
62.5°	121.8	105.5	82.4	54.5	39.4	26.1	21.8	20.0	21.8	26.1	34.6
65°	88.5	75.8	57.6	40.0	26.7	19.4	14.5	13.3	15.2	18.2	25.5
67.5°	60.6	50.9	40.0	27.9	18.2	12.1	10.3	10.3	10.9	13.3	18.8
70°	39.4	33.3	25.5	18.2	12.1	9.1	7.9	6.7	7.9	9.7	12.7
72.5°	24.9	21.2	16.4	12.7	9.1	6.7	5.5	4.8	6.1	7.3	9.7
75°	15.2	11.5	8.5	6.7	4.8	4.8	4.8	2.4	3.0	4.8	6.1
77.5°	9.1	7.9	6.7	5.5	4.2	2.4	2.4	2.4	3.0	3.6	5.5
80°	4.8	4.2	3.0	3.0	2.4	1.8	2.4	1.8	1.2	3.0	3.6
82.5°	3.0	2.4	2.4	2.4	3.0	1.2	1.8	1.2	1.8	2.4	1.8
85°	1.8	1.8	1.8	1.2	3.0	1.2	1.2	0.6	0.6	1.2	1.2
87.5°	0.0	0.6	0.6	0.0	0.6	0.0	0.6	0.6	0.6	0.6	0.6
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°	1141.8	1141.8	1141.8	1141.8	1141.8	1141.8	1141.8	1141.8	1141.8	1141.8	1141.8
2.5°	1143.6	1143.0	1143.6	1143.0	1143.0	1143.0	1143.6	1143.6	1143.0	1143.0	1144.2
5°	1148.5	1148.5	1148.5	1147.9	1147.3	1147.3	1148.5	1148.5	1146.7	1148.5	1148.5
7.5°	1158.8	1157.0	1158.8	1156.3	1155.1	1155.7	1156.3	1155.1	1153.9	1154.5	1154.5
10°	1172.1	1170.3	1170.3	1168.5	1166.7	1165.4	1164.2	1161.2	1158.2	1157.6	1155.1
12.5°	1187.9	1184.8	1183.0	1179.4	1176.4	1172.1	1168.5	1163.6	1157.6	1153.3	1149.1
15°	1203.6	1198.8	1194.5	1188.5	1181.8	1174.5	1166.7	1158.8	1149.1	1140.6	1133.3
17.5°	1216.3	1209.7	1201.8	1192.1	1182.4	1171.5	1160.0	1148.5	1134.5	1123.6	1115.1
20°	1220.6	1210.9	1200.6	1187.9	1175.1	1160.0	1145.4	1130.3	1114.5	1103.0	1093.3
22.5°	1215.1	1203.6	1190.9	1177.6	1160.6	1144.2	1127.3	1109.7	1095.7	1080.0	1070.9
25°	1200.0	1186.1	1172.1	1156.3	1140.0	1121.8	1103.6	1085.4	1068.5	1060.0	1048.5
27.5°	1169.1	1153.9	1138.8	1122.4	1103.6	1085.4	1066.7	1049.1	1034.5	1023.0	1016.4
30°	1114.5	1097.0	1079.4	1061.8	1045.4	1026.7	1009.1	994.5	980.0	970.9	964.2
32.5°	1030.9	1015.1	997.6	980.6	965.5	949.7	935.1	922.4	912.1	906.0	901.2
35°	918.2	902.4	889.1	877.0	864.2	857.6	848.5	841.2	837.0	834.5	833.9
37.5°	776.4	767.3	763.0	760.6	758.2	756.4	757.6	760.6	763.0	767.3	772.1
40°	624.8	632.7	635.1	643.6	651.5	661.8	673.3	686.7	697.6	711.5	721.2
42.5°	486.7	501.2	518.2	536.4	555.8	574.5	597.6	618.8	638.2	655.7	670.9
45°	373.9	396.4	421.8	447.9	473.9	501.2	529.1	555.1	578.2	597.0	612.7
47.5°	291.5	316.4	349.1	381.2	412.7	444.8	475.7	503.0	522.4	540.6	554.5
50°	230.9	259.4	295.1	332.1	366.7	400.6	433.3	458.8	478.2	492.7	503.0
52.5°	178.8	212.7	249.1	287.9	324.8	361.8	392.1	415.8	431.5	444.2	452.1
55°	133.3	166.7	205.5	245.5	283.0	318.8	347.3	367.9	381.8	389.1	393.3
57.5°	96.4	126.7	165.4	205.5	239.4	273.3	296.4	315.1	323.0	327.3	329.1
60°	70.3	98.2	132.7	167.3	199.4	226.7	246.7	259.4	265.5	267.9	267.3
62.5°	51.5	75.8	105.5	134.5	160.6	183.0	198.8	207.3	210.3	211.5	209.7
65°	39.4	58.2	83.6	106.1	126.1	142.4	153.9	159.4	161.2	160.6	159.4
67.5°	29.1	43.6	62.4	79.4	93.9	106.7	112.7	117.6	118.8	117.0	115.1
70°	20.6	32.1	45.5	57.0	67.9	75.2	81.8	82.4	82.4	81.8	80.6
72.5°	14.5	22.4	30.9	38.8	45.5	50.9	53.3	55.1	54.5	53.9	52.7
75°	9.7	13.9	22.4	24.2	30.3	32.1	34.6	34.6	35.1	33.3	33.3
77.5°	6.1	9.7	13.3	15.8	18.2	20.6	21.8	21.8	22.4	21.8	21.8
80°	3.6	6.1	7.3	10.9	10.9	12.7	13.3	13.9	12.7	14.5	12.7
82.5°	2.4	3.6	5.5	5.5	6.7	7.9	7.9	8.5	8.5	7.9	7.9
85°	1.8	2.4	3.0	3.6	3.6	4.2	3.6	3.6	4.2	4.8	4.2
87.5°	0.6	1.2	0.6	1.2	1.2	2.4	1.8	1.8	1.8	2.4	2.4
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: P245517

CATALOG NUMBER: LSR8B30D010 EC8B309727 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1141.8	1141.8	1141.8	1141.8
2.5°	1143.0	1143.6	1143.0	1143.0
5°	1148.5	1147.9	1148.5	1147.3
7.5°	1152.7	1152.7	1152.1	1152.1
10°	1152.7	1150.3	1150.3	1150.3
12.5°	1143.6	1140.6	1138.8	1137.6
15°	1127.9	1122.4	1120.0	1119.4
17.5°	1107.3	1102.4	1099.4	1097.6
20°	1083.6	1078.8	1075.1	1075.8
22.5°	1063.0	1057.6	1055.1	1053.9
25°	1042.4	1035.7	1033.9	1032.7
27.5°	1009.1	1005.4	1003.6	1001.8
30°	958.2	956.3	953.3	957.6
32.5°	899.4	896.3	893.9	895.8
35°	834.5	832.7	834.5	833.3
37.5°	775.1	777.0	779.4	780.6
40°	728.5	735.1	737.6	738.8
42.5°	681.8	689.7	694.5	697.6
45°	624.2	632.1	637.6	641.2
47.5°	564.8	571.5	577.0	576.4
50°	510.9	514.5	517.0	519.4
52.5°	456.4	456.4	457.0	457.0
55°	394.5	393.3	392.7	393.3
57.5°	326.7	325.5	324.8	323.0
60°	264.8	261.2	258.8	258.8
62.5°	207.3	203.0	201.2	200.6
65°	155.8	155.1	151.5	150.9
67.5°	112.7	110.3	107.9	108.5
70°	79.4	75.8	75.8	74.5
72.5°	51.5	49.7	49.1	49.1
75°	32.1	32.1	30.9	33.3
77.5°	21.2	21.2	20.6	21.2
80°	12.7	12.7	12.7	12.1
82.5°	7.9	8.5	7.9	7.9
85°	4.2	4.8	3.6	5.5
87.5°	2.4	3.0	2.4	3.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)