

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: P246237

Luminaire Tested: **LSR8B30D010 EC8B309727 8LBDW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246237  
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: LSR8B30D010 EC8B309727 8LBDW0MW  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2159.0 lumens  
Efficiency: N/A  
Efficacy: 79.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

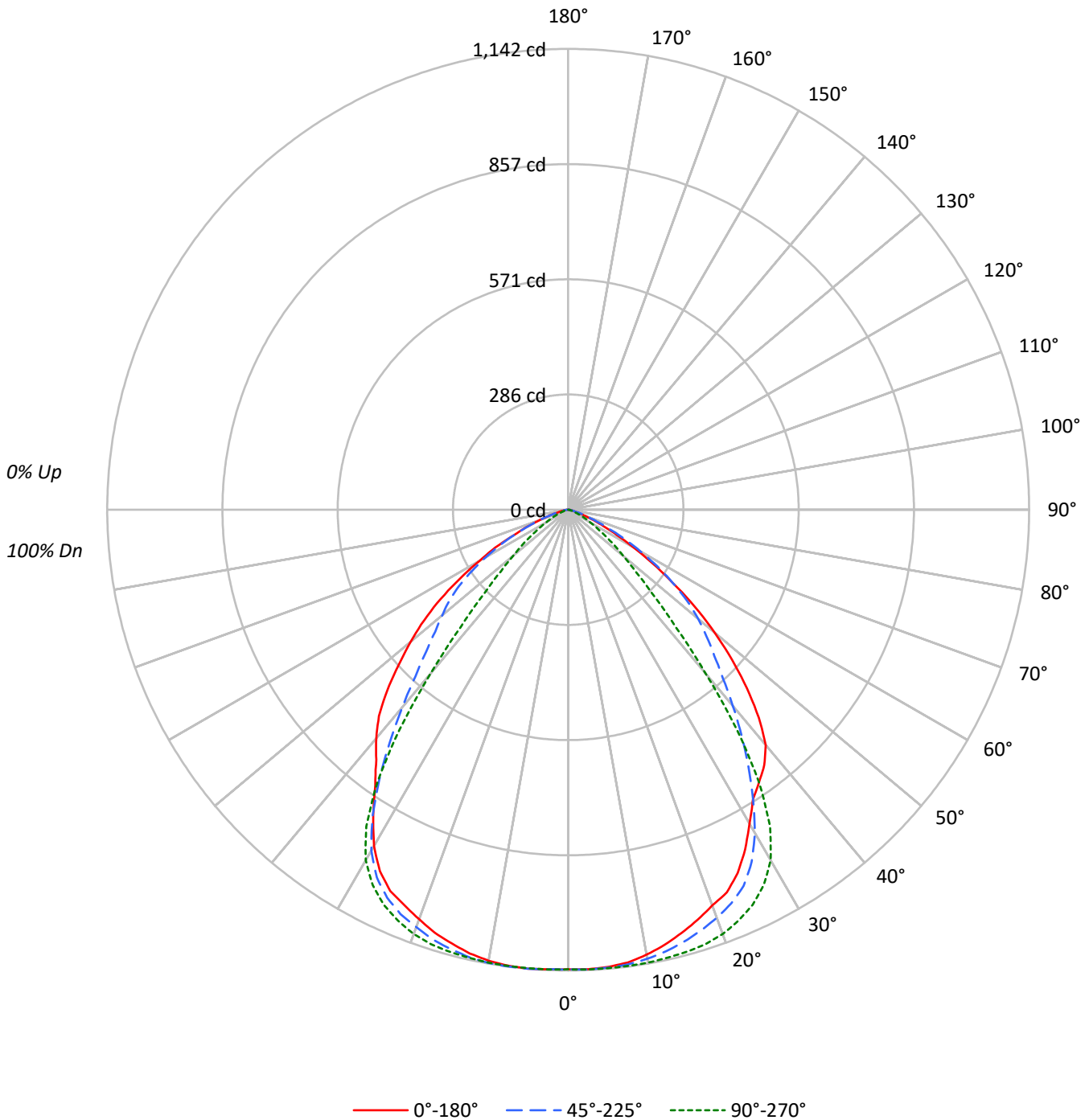
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	91	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	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°	108.7	5.0
10°-20°	315.7	14.6
20°-30°	479.2	22.2
30°-40°	503.3	23.3
40°-50°	377.3	17.5
50°-60°	242.1	11.2
60°-70°	103.6	4.8
70°-80°	24.5	1.1
80°-90°	4.5	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°	903.6	41.9
0°-40°	1406.9	65.2
0°-60°	2026.4	93.9
0°-90°	2159.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2159.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1139	1139	1139	1139	1139	
5°	1137	1139	1140	1142	1142	108
15°	1086	1109	1134	1127	1113	306
25°	994	1028	1080	1061	1042	454
35°	824	778	825	815	833	517
45°	626	512	294	497	635	480
55°	317	317	110	330	386	287
65°	95	112	35	145	147	102
75°	15	17	5	29	29	21
85°	5	3	2	5	7	5
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°	1139.1	1139.1	1139.1	1139.1	1139.1	1139.1	1139.1	1139.1	1139.1	1139.1	1139.1
2.5°	1139.7	1141.0	1140.4	1140.4	1139.7	1140.4	1140.4	1141.6	1141.6	1140.4	1139.7
5°	1137.3	1138.5	1138.5	1137.3	1137.3	1140.4	1138.5	1139.7	1139.7	1139.1	1139.1
7.5°	1131.8	1131.8	1134.2	1132.4	1132.4	1134.2	1133.6	1134.9	1136.1	1136.7	1136.7
10°	1119.6	1120.8	1121.4	1121.4	1122.0	1123.8	1125.1	1127.5	1128.7	1130.0	1130.6
12.5°	1104.3	1106.1	1106.7	1106.1	1108.0	1110.4	1113.5	1116.5	1118.3	1120.8	1122.6
15°	1085.9	1085.9	1087.2	1089.0	1090.2	1093.9	1096.9	1100.6	1105.5	1108.6	1111.6
17.5°	1065.8	1067.0	1068.8	1068.8	1071.3	1077.4	1079.2	1084.7	1090.2	1093.3	1099.4
20°	1043.8	1045.0	1046.8	1048.0	1051.1	1056.0	1059.6	1064.5	1070.7	1076.2	1082.3
22.5°	1026.6	1024.2	1025.4	1026.6	1029.7	1034.0	1038.2	1044.4	1050.5	1056.0	1062.1
25°	993.6	994.2	996.1	997.3	1000.9	1004.6	1009.5	1016.8	1022.3	1028.5	1035.2
27.5°	949.0	949.6	952.6	952.6	955.7	961.8	964.9	971.0	978.3	984.4	992.4
30°	898.2	899.4	899.4	901.9	903.7	906.8	909.8	916.0	919.6	925.1	936.1
32.5°	851.8	853.0	852.4	851.8	849.9	849.3	848.7	849.9	851.1	853.0	857.2
35°	824.2	821.2	818.7	814.5	809.6	803.4	797.9	790.6	783.9	778.4	772.3
37.5°	797.9	797.3	793.7	787.5	777.8	766.8	753.9	738.0	722.1	705.0	688.5
40°	761.3	759.4	756.4	747.8	736.8	723.3	706.2	686.7	661.0	634.7	607.8
42.5°	698.9	699.5	695.8	689.1	678.7	665.9	648.1	626.7	599.2	568.0	533.2
45°	626.1	626.1	624.9	619.4	612.1	601.7	588.2	570.5	543.6	511.8	474.5
47.5°	550.3	550.9	549.1	547.9	544.8	538.1	528.3	514.8	495.9	465.3	428.0
50°	473.3	473.3	476.3	475.7	475.7	473.3	469.0	461.0	444.5	420.1	385.2
52.5°	396.2	397.4	399.3	401.7	404.8	409.7	404.8	401.1	390.7	371.8	341.8
55°	316.7	318.0	321.0	325.3	329.0	333.9	335.1	335.1	329.6	316.7	294.1
57.5°	248.9	247.0	249.5	253.1	258.0	262.9	266.6	270.9	270.3	261.7	243.4
60°	187.1	187.7	189.5	193.2	196.9	201.2	206.1	209.7	211.6	207.3	195.7
62.5°	136.4	136.4	138.8	142.5	144.3	150.4	153.5	155.3	157.1	156.5	149.2
65°	95.4	96.6	97.8	99.7	101.5	105.2	107.0	110.7	111.9	112.5	107.0
67.5°	67.3	65.4	66.7	67.9	69.7	72.2	75.8	75.8	77.6	77.6	74.0
70°	42.8	42.8	43.4	45.2	46.5	47.1	48.3	49.5	51.4	50.7	50.7
72.5°	28.7	28.1	28.7	29.4	30.0	31.8	31.8	32.4	33.6	34.2	31.8
75°	14.7	15.3	16.5	15.9	17.7	16.5	17.1	19.0	18.3	17.1	17.1
77.5°	12.2	12.2	12.2	11.6	12.8	12.8	12.2	13.5	12.8	12.8	12.2
80°	8.6	9.2	8.6	7.9	8.6	7.9	7.9	7.9	7.9	7.9	7.3
82.5°	6.7	5.5	6.1	5.5	6.1	6.1	5.5	4.9	4.9	5.5	4.9
85°	4.9	3.7	4.3	4.3	3.7	3.7	3.7	3.7	3.7	3.1	3.1
87.5°	3.1	1.8	1.8	1.8	2.4	2.4	2.4	1.8	2.4	2.4	1.2
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°	1139.1	1139.1	1139.1	1139.1	1139.1	1139.1	1139.1	1139.1	1139.1	1139.1	1139.1
2.5°	1141.0	1140.4	1141.6	1141.0	1141.0	1140.4	1141.0	1140.4	1141.6	1139.1	1139.7
5°	1141.0	1139.7	1140.4	1141.0	1141.6	1140.4	1140.4	1140.4	1141.6	1140.4	1141.0
7.5°	1138.5	1137.9	1139.7	1141.0	1140.4	1139.7	1141.0	1140.4	1141.6	1141.0	1142.2
10°	1133.6	1134.2	1135.5	1137.3	1137.9	1138.5	1139.7	1139.7	1141.6	1139.1	1140.4
12.5°	1126.3	1128.7	1131.8	1133.0	1135.5	1135.5	1136.7	1137.3	1138.5	1137.9	1139.7
15°	1117.1	1120.2	1123.8	1126.9	1130.0	1131.8	1133.6	1134.2	1136.1	1134.2	1134.9
17.5°	1106.1	1109.8	1115.3	1118.9	1123.8	1125.7	1128.1	1129.3	1131.2	1130.0	1130.6
20°	1090.8	1095.1	1101.2	1106.7	1109.8	1114.1	1117.1	1118.9	1120.2	1118.9	1119.6
22.5°	1069.4	1075.5	1083.5	1087.8	1093.9	1097.6	1098.2	1102.4	1105.5	1102.4	1103.7
25°	1044.4	1050.5	1056.6	1065.8	1071.3	1075.5	1079.8	1080.4	1083.5	1082.9	1082.3
27.5°	1002.8	1010.7	1021.1	1028.5	1035.8	1042.5	1047.4	1048.6	1051.7	1050.5	1051.1
30°	945.9	954.5	964.3	975.9	986.3	993.0	999.1	1003.4	1006.4	1004.6	1004.0
32.5°	865.2	873.8	884.2	895.8	908.0	917.8	925.1	930.6	934.3	933.1	930.0
35°	772.9	775.3	782.1	791.2	801.6	812.0	818.7	824.8	829.1	830.3	830.3
37.5°	678.1	670.2	665.3	665.3	671.4	675.6	681.8	685.4	692.2	694.6	696.4
40°	586.4	568.0	550.9	538.1	529.5	528.9	528.9	530.7	536.9	544.8	552.1
42.5°	504.4	475.1	448.8	425.0	407.8	398.1	393.8	394.4	399.3	406.6	418.8
45°	439.0	402.3	369.3	340.6	317.3	302.1	294.7	294.1	297.8	306.3	319.8
47.5°	388.3	349.1	311.8	278.8	253.8	237.2	228.7	226.2	228.7	236.6	252.5
50°	346.1	305.7	267.2	233.0	206.1	188.9	181.0	177.9	181.0	187.7	203.6
52.5°	306.9	265.4	229.3	196.3	167.5	152.9	144.3	142.5	144.3	152.2	165.1
55°	261.7	226.2	190.8	157.8	132.7	118.0	111.3	109.5	111.3	118.6	132.1
57.5°	217.1	186.5	155.3	125.3	104.0	91.1	85.0	82.5	86.8	91.7	107.6
60°	175.5	151.0	124.7	98.4	80.7	69.1	64.2	63.6	64.8	70.9	81.9
62.5°	137.6	117.4	96.6	75.2	60.5	55.6	49.5	48.9	50.1	53.8	62.4
65°	99.1	86.2	70.3	55.0	43.4	36.7	34.2	34.9	36.1	38.5	46.5
67.5°	69.1	59.9	48.9	38.5	30.0	26.9	24.5	23.8	24.5	28.7	33.0
70°	46.5	41.0	33.0	29.4	20.8	16.5	17.1	15.3	17.7	17.7	21.4
72.5°	30.6	26.9	22.0	17.1	14.7	11.6	11.6	11.0	12.2	12.8	15.9
75°	15.9	12.2	12.2	8.6	6.1	3.1	5.5	4.9	4.3	4.9	6.1
77.5°	11.0	9.2	8.6	6.7	6.1	4.9	4.9	4.9	4.9	5.5	6.1
80°	6.7	6.7	4.9	4.3	3.7	3.1	3.7	3.7	3.7	3.7	4.3
82.5°	4.3	3.7	3.7	3.1	3.1	2.4	2.4	2.4	2.4	2.4	3.7
85°	3.7	2.4	2.4	1.8	2.4	4.3	1.8	2.4	2.4	2.4	1.8
87.5°	1.2	1.8	1.8	1.8	1.2	0.6	1.2	1.8	1.8	3.1	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



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1139.1	1139.1	1139.1	1139.1	1139.1	1139.1	1139.1	1139.1	1139.1	1139.1	1139.1
2.5°	1141.0	1141.6	1141.6	1141.0	1141.0	1139.7	1142.2	1140.4	1141.0	1143.4	1141.6
5°	1142.2	1142.8	1142.8	1142.2	1142.2	1142.2	1142.8	1142.8	1142.2	1141.6	1142.8
7.5°	1144.6	1144.0	1144.0	1142.8	1142.8	1141.6	1142.8	1141.0	1142.2	1141.0	1142.8
10°	1141.6	1142.2	1141.6	1141.0	1141.0	1140.4	1140.4	1138.5	1139.1	1137.3	1138.5
12.5°	1139.7	1139.1	1139.1	1137.9	1136.7	1135.5	1134.9	1133.0	1133.0	1128.7	1130.6
15°	1134.9	1135.5	1133.6	1131.2	1130.0	1126.9	1125.7	1123.2	1120.8	1117.7	1118.3
17.5°	1130.6	1128.7	1126.3	1123.8	1118.9	1116.5	1114.1	1110.4	1109.2	1105.5	1104.3
20°	1117.7	1116.5	1113.5	1109.2	1106.1	1100.6	1098.2	1094.5	1091.4	1087.8	1085.9
22.5°	1101.2	1100.0	1096.3	1092.0	1087.2	1084.7	1082.3	1075.5	1072.5	1068.8	1068.2
25°	1080.4	1078.6	1074.9	1070.0	1067.6	1060.9	1058.4	1053.5	1052.3	1048.6	1048.0
27.5°	1048.6	1046.2	1041.9	1035.8	1031.5	1027.2	1024.8	1021.1	1019.9	1016.2	1015.6
30°	1000.9	997.9	989.3	986.9	979.5	975.3	975.3	970.4	971.0	968.5	968.5
32.5°	925.7	920.8	914.1	909.2	904.3	901.9	901.9	900.1	901.3	901.3	902.5
35°	826.1	819.3	815.7	812.6	812.6	815.1	822.4	824.2	827.9	831.0	833.4
37.5°	698.3	697.7	701.9	705.6	714.8	725.2	738.0	749.0	759.4	766.8	774.1
40°	560.1	575.4	587.6	604.7	618.8	639.0	662.2	681.2	698.9	711.7	725.2
42.5°	437.2	456.8	482.4	507.5	532.6	560.1	590.7	617.0	640.2	657.9	672.0
45°	340.6	367.5	398.7	430.5	462.9	497.1	528.9	555.8	580.3	598.6	612.7
47.5°	274.5	303.9	339.4	374.2	410.9	447.0	482.4	505.7	525.8	540.5	553.4
50°	226.8	258.0	295.3	335.1	371.8	407.8	438.4	461.0	477.5	490.4	498.3
52.5°	189.5	222.6	262.3	302.1	338.7	371.8	399.3	416.4	429.9	439.0	446.4
55°	156.5	188.3	225.6	262.9	299.0	330.2	352.8	365.7	376.0	381.5	385.8
57.5°	127.8	157.1	191.4	225.6	256.8	282.5	300.2	313.1	318.0	322.2	321.6
60°	100.3	127.8	159.0	188.3	215.2	236.0	248.9	256.2	259.9	261.7	260.5
62.5°	78.9	104.0	127.8	153.5	173.0	190.8	203.0	203.0	204.8	205.4	207.3
65°	58.7	77.6	98.4	117.4	133.3	144.9	151.6	153.5	155.9	155.3	154.1
67.5°	43.4	57.5	72.8	86.8	97.8	105.2	110.1	114.3	113.7	112.5	111.9
70°	30.0	39.1	52.6	61.1	69.1	76.4	77.6	78.3	78.9	79.5	78.3
72.5°	20.8	27.5	34.9	42.2	47.1	50.1	53.2	53.8	53.8	53.8	53.2
75°	10.4	14.1	20.8	23.8	28.1	29.4	31.8	31.8	33.6	31.2	30.6
77.5°	9.2	11.0	14.7	17.1	19.0	20.8	21.4	23.2	22.6	21.4	22.0
80°	5.5	6.7	9.2	10.4	12.8	13.5	14.1	14.7	14.1	14.7	14.7
82.5°	4.3	4.9	6.1	6.1	7.9	7.9	8.6	8.6	9.2	9.2	9.2
85°	2.4	4.3	3.7	7.3	4.9	4.9	6.1	7.3	6.1	6.1	7.3
87.5°	2.4	2.4	1.8	2.4	2.4	2.4	3.1	3.7	3.7	4.3	3.7
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: P246237

CATALOG NUMBER: LSR8B30D010 EC8B309727 8LBDW0MW

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1139.1	1139.1	1139.1	1139.1
2.5°	1141.0	1142.2	1140.4	1139.7
5°	1142.8	1142.8	1141.6	1141.6
7.5°	1142.8	1142.8	1141.0	1139.7
10°	1137.9	1137.9	1136.1	1134.9
12.5°	1128.7	1128.7	1128.1	1126.3
15°	1117.1	1117.1	1114.7	1112.8
17.5°	1101.2	1102.4	1099.4	1099.4
20°	1084.1	1083.5	1081.1	1079.8
22.5°	1066.4	1065.1	1064.5	1060.9
25°	1047.4	1046.2	1044.4	1042.5
27.5°	1015.0	1014.4	1012.6	1010.1
30°	965.5	964.9	962.4	962.4
32.5°	901.3	900.7	898.2	898.8
35°	834.6	837.1	835.9	833.4
37.5°	779.0	780.8	782.1	780.8
40°	732.5	738.0	738.6	739.9
42.5°	683.0	690.3	692.8	694.0
45°	623.7	630.4	635.9	634.7
47.5°	563.1	568.0	572.9	569.3
50°	505.1	508.1	510.0	510.0
52.5°	450.0	450.0	449.4	450.0
55°	387.0	387.0	384.6	385.8
57.5°	321.0	322.2	320.4	317.3
60°	259.9	256.8	255.6	253.8
62.5°	202.4	202.4	198.1	203.6
65°	151.6	149.8	148.0	147.4
67.5°	110.1	109.5	107.6	107.0
70°	77.6	75.2	74.6	73.4
72.5°	52.0	52.0	50.7	50.7
75°	31.8	28.7	28.1	28.7
77.5°	22.0	21.4	21.4	20.8
80°	14.7	14.1	15.3	13.5
82.5°	9.2	9.8	9.2	9.8
85°	6.1	7.3	6.7	6.7
87.5°	3.7	3.7	3.7	3.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)