

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: P246165

Luminaire Tested: **LSR8B30D010 EC8B30927 8LBDW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246165  
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 EC8B30927 8LBDW0B  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2173.5 lumens  
Efficiency: N/A  
Efficacy: 80.2 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

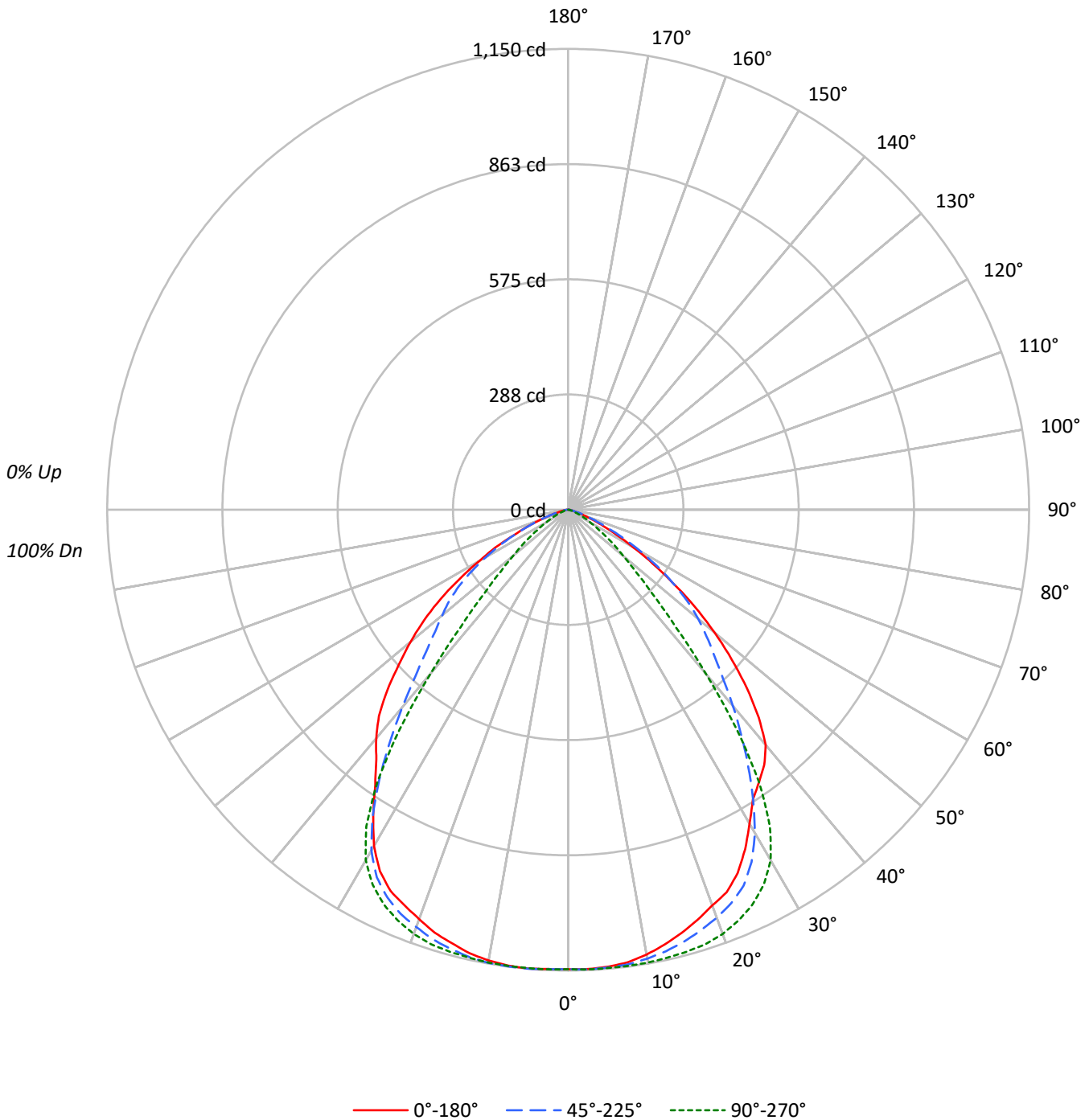
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	109.4	5.0
10°-20°	317.8	14.6
20°-30°	482.4	22.2
30°-40°	506.7	23.3
40°-50°	379.9	17.5
50°-60°	243.7	11.2
60°-70°	104.3	4.8
70°-80°	24.6	1.1
80°-90°	4.6	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°	909.7	41.9
0°-40°	1416.4	65.2
0°-60°	2040.0	93.9
0°-90°	2173.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2173.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1147	1147	1147	1147	1147	
5°	1145	1147	1148	1150	1149	109
15°	1093	1116	1142	1134	1120	308
25°	1000	1035	1088	1068	1050	457
35°	830	784	830	821	839	521
45°	630	515	296	500	639	483
55°	319	319	110	332	388	289
65°	96	113	35	146	148	102
75°	15	17	5	30	29	22
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°	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8
2.5°	1147.4	1148.6	1148.1	1148.1	1147.4	1148.1	1148.1	1149.3	1149.3	1148.1	1147.4
5°	1144.9	1146.1	1146.1	1144.9	1144.9	1148.1	1146.1	1147.4	1147.4	1146.8	1146.8
7.5°	1139.4	1139.4	1141.9	1140.0	1140.0	1141.9	1141.2	1142.4	1143.7	1144.4	1144.4
10°	1127.0	1128.3	1128.9	1128.9	1129.5	1131.4	1132.6	1135.1	1136.4	1137.6	1138.2
12.5°	1111.7	1113.5	1114.2	1113.5	1115.4	1117.8	1121.0	1124.0	1125.9	1128.3	1130.2
15°	1093.3	1093.3	1094.5	1096.3	1097.6	1101.3	1104.3	1108.0	1113.0	1116.0	1119.0
17.5°	1072.9	1074.1	1076.0	1076.0	1078.4	1084.6	1086.4	1092.0	1097.6	1100.6	1106.8
20°	1050.8	1052.0	1053.8	1055.0	1058.2	1063.0	1066.7	1071.7	1077.9	1083.4	1089.6
22.5°	1033.5	1031.1	1032.3	1033.5	1036.6	1041.0	1045.2	1051.3	1057.5	1063.0	1069.2
25°	1000.2	1000.9	1002.7	1004.0	1007.7	1011.4	1016.3	1023.6	1029.3	1035.3	1042.1
27.5°	955.4	955.9	959.1	959.1	962.1	968.3	971.3	977.5	984.9	991.0	999.0
30°	904.3	905.5	905.5	908.0	909.8	912.8	916.0	922.0	925.8	931.4	942.4
32.5°	857.5	858.7	858.0	857.5	855.7	855.0	854.4	855.7	856.9	858.7	863.0
35°	829.8	826.6	824.3	819.9	814.9	808.9	803.2	795.9	789.2	783.6	777.5
37.5°	803.2	802.7	799.0	792.8	783.0	771.9	759.0	742.9	727.0	709.8	693.1
40°	766.4	764.6	761.4	752.8	741.7	728.2	711.0	691.3	665.4	639.0	611.9
42.5°	703.6	704.2	700.5	693.7	683.3	670.4	652.5	630.9	603.2	571.8	536.7
45°	630.3	630.3	629.1	623.6	616.2	605.7	592.2	574.3	547.2	515.2	477.7
47.5°	553.9	554.6	552.7	551.6	548.4	541.7	531.8	518.3	499.3	468.4	430.9
50°	476.4	476.4	479.5	478.9	478.9	476.4	472.2	464.2	447.5	422.9	387.8
52.5°	398.9	400.2	402.0	404.4	407.5	412.4	407.5	403.8	393.3	374.3	344.1
55°	318.8	320.1	323.2	327.5	331.2	336.2	337.3	337.3	331.8	318.8	296.1
57.5°	250.5	248.7	251.1	254.8	259.8	264.7	268.4	272.7	272.0	263.5	245.0
60°	188.3	189.0	190.8	194.5	198.2	202.5	207.4	211.2	213.0	208.7	197.0
62.5°	137.2	137.2	139.7	143.4	145.2	151.4	154.5	156.4	158.2	157.6	150.2
65°	96.1	97.2	98.4	100.4	102.1	105.9	107.8	111.4	112.6	113.3	107.8
67.5°	67.7	65.8	67.0	68.3	70.2	72.7	76.4	76.4	78.2	78.2	74.5
70°	43.1	43.1	43.8	45.6	46.8	47.4	48.6	49.8	51.8	51.1	51.1
72.5°	28.9	28.4	28.9	29.6	30.2	32.0	32.0	32.6	33.9	34.4	32.0
75°	14.7	15.4	16.7	16.0	17.9	16.7	17.2	19.1	18.4	17.2	17.2
77.5°	12.3	12.3	12.3	11.7	12.9	12.9	12.3	13.5	12.9	12.9	12.3
80°	8.7	9.2	8.7	8.0	8.7	8.0	8.0	8.0	8.0	8.0	7.4
82.5°	6.8	5.5	6.2	5.5	6.2	6.2	5.5	5.0	5.0	5.5	5.0
85°	5.0	3.7	4.3	4.3	3.7	3.7	3.7	3.7	3.7	3.0	3.0
87.5°	3.0	1.8	1.8	1.8	2.5	2.5	2.5	1.8	2.5	2.5	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°	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8
2.5°	1148.6	1148.1	1149.3	1148.6	1148.6	1148.1	1148.6	1148.1	1149.3	1146.8	1147.4
5°	1148.6	1147.4	1148.1	1148.6	1149.3	1148.1	1148.1	1148.1	1149.3	1148.1	1148.6
7.5°	1146.1	1145.6	1147.4	1148.6	1148.1	1147.4	1148.6	1148.1	1149.3	1148.6	1149.9
10°	1141.2	1141.9	1143.1	1144.9	1145.6	1146.1	1147.4	1147.4	1149.3	1146.8	1148.1
12.5°	1133.9	1136.4	1139.4	1140.6	1143.1	1143.1	1144.4	1144.9	1146.1	1145.6	1147.4
15°	1124.7	1127.7	1131.4	1134.4	1137.6	1139.4	1141.2	1141.9	1143.7	1141.9	1142.4
17.5°	1113.5	1117.2	1122.8	1126.5	1131.4	1133.2	1135.7	1136.9	1138.8	1137.6	1138.2
20°	1098.1	1102.5	1108.6	1114.2	1117.2	1121.5	1124.7	1126.5	1127.7	1126.5	1127.0
22.5°	1076.6	1082.8	1090.8	1095.1	1101.3	1105.0	1105.5	1109.8	1113.0	1109.8	1111.0
25°	1051.3	1057.5	1063.7	1072.9	1078.4	1082.8	1087.1	1087.6	1090.8	1090.1	1089.6
27.5°	1009.5	1017.6	1028.0	1035.3	1042.8	1049.5	1054.5	1055.7	1058.7	1057.5	1058.2
30°	952.3	960.9	970.8	982.5	992.9	999.7	1005.9	1010.1	1013.2	1011.4	1010.7
32.5°	871.0	879.6	890.1	901.8	914.1	924.0	931.4	936.9	940.6	939.4	936.2
35°	778.1	780.5	787.3	796.5	807.0	817.4	824.3	830.4	834.6	835.9	835.9
37.5°	682.6	674.7	669.7	669.7	675.9	680.2	686.4	690.1	696.8	699.3	701.1
40°	590.3	571.8	554.6	541.7	533.0	532.5	532.5	534.3	540.4	548.4	555.9
42.5°	507.8	478.2	451.8	427.8	410.6	400.7	396.4	397.0	402.0	409.4	421.6
45°	442.0	405.0	371.8	342.9	319.5	304.1	296.7	296.1	299.8	308.4	322.0
47.5°	390.8	351.4	313.9	280.7	255.5	238.8	230.2	227.8	230.2	238.2	254.2
50°	348.4	307.8	269.0	234.6	207.4	190.2	182.2	179.1	182.2	189.0	205.0
52.5°	309.0	267.2	230.8	197.5	168.6	153.9	145.2	143.4	145.2	153.2	166.2
55°	263.5	227.8	192.0	158.8	133.5	118.8	112.0	110.1	112.0	119.5	133.0
57.5°	218.5	187.8	156.4	126.2	104.6	91.7	85.6	83.1	87.4	92.4	108.3
60°	176.6	152.1	125.6	99.1	81.2	69.5	64.6	64.0	65.2	71.4	82.5
62.5°	138.5	118.2	97.2	75.7	61.0	56.0	49.8	49.3	50.5	54.1	62.8
65°	99.7	86.9	70.8	55.4	43.8	36.9	34.4	35.1	36.3	38.8	46.8
67.5°	69.5	60.3	49.3	38.8	30.2	27.1	24.6	24.0	24.6	28.9	33.2
70°	46.8	41.3	33.2	29.6	20.9	16.7	17.2	15.4	17.9	17.9	21.5
72.5°	30.8	27.1	22.2	17.2	14.7	11.7	11.7	11.1	12.3	12.9	16.0
75°	16.0	12.3	12.3	8.7	6.2	3.0	5.5	5.0	4.3	5.0	6.2
77.5°	11.1	9.2	8.7	6.8	6.2	5.0	5.0	5.0	5.0	5.5	6.2
80°	6.8	6.8	5.0	4.3	3.7	3.0	3.7	3.7	3.7	3.7	4.3
82.5°	4.3	3.7	3.7	3.0	3.0	2.5	2.5	2.5	2.5	2.5	3.7
85°	3.7	2.5	2.5	1.8	2.5	4.3	1.8	2.5	2.5	2.5	1.8
87.5°	1.2	1.8	1.8	1.8	1.2	0.6	1.2	1.8	1.8	3.0	2.5
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°	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8
2.5°	1148.6	1149.3	1149.3	1148.6	1148.6	1147.4	1149.9	1148.1	1148.6	1151.1	1149.3
5°	1149.9	1150.4	1150.4	1149.9	1149.9	1149.9	1150.4	1150.4	1149.9	1149.3	1150.4
7.5°	1152.3	1151.7	1151.7	1150.4	1150.4	1149.3	1150.4	1148.6	1149.9	1148.6	1150.4
10°	1149.3	1149.9	1149.3	1148.6	1148.6	1148.1	1148.1	1146.1	1146.8	1144.9	1146.1
12.5°	1147.4	1146.8	1146.8	1145.6	1144.4	1143.1	1142.4	1140.6	1140.6	1136.4	1138.2
15°	1142.4	1143.1	1141.2	1138.8	1137.6	1134.4	1133.2	1130.7	1128.3	1125.2	1125.9
17.5°	1138.2	1136.4	1133.9	1131.4	1126.5	1124.0	1121.5	1117.8	1116.6	1113.0	1111.7
20°	1125.2	1124.0	1121.0	1116.6	1113.5	1108.0	1105.5	1101.8	1098.8	1095.1	1093.3
22.5°	1108.6	1107.3	1103.7	1099.4	1094.5	1092.0	1089.6	1082.8	1079.7	1076.0	1075.4
25°	1087.6	1085.9	1082.1	1077.2	1074.7	1068.0	1065.5	1060.6	1059.4	1055.7	1055.0
27.5°	1055.7	1053.2	1049.0	1042.8	1038.5	1034.1	1031.6	1028.0	1026.8	1023.1	1022.4
30°	1007.7	1004.6	996.0	993.5	986.1	981.8	981.8	976.8	977.5	975.0	975.0
32.5°	932.0	927.0	920.2	915.3	910.4	908.0	908.0	906.1	907.3	907.3	908.6
35°	831.6	824.8	821.1	818.1	818.1	820.6	827.9	829.8	833.5	836.6	839.0
37.5°	703.0	702.3	706.6	710.3	719.6	730.0	742.9	754.1	764.6	771.9	779.3
40°	563.8	579.3	591.5	608.7	622.9	643.3	666.7	685.7	703.6	716.5	730.0
42.5°	440.1	459.8	485.7	510.9	536.2	563.8	594.7	621.1	644.5	662.3	676.5
45°	342.9	369.9	401.4	433.4	466.0	500.4	532.5	559.6	584.2	602.7	616.8
47.5°	276.4	305.9	341.7	376.8	413.7	450.0	485.7	509.1	529.4	544.2	557.1
50°	228.4	259.8	297.3	337.3	374.3	410.6	441.3	464.2	480.7	493.6	501.6
52.5°	190.8	224.1	264.0	304.1	341.0	374.3	402.0	419.2	432.8	442.0	449.3
55°	157.6	189.6	227.1	264.7	301.0	332.4	355.2	368.1	378.6	384.1	388.5
57.5°	128.7	158.2	192.7	227.1	258.5	284.4	302.3	315.1	320.1	324.4	323.8
60°	100.9	128.7	160.1	189.6	216.7	237.6	250.5	258.0	261.6	263.5	262.2
62.5°	79.4	104.6	128.7	154.5	174.2	192.0	204.4	204.4	206.2	206.8	208.7
65°	59.1	78.2	99.1	118.2	134.2	145.9	152.7	154.5	156.9	156.4	155.1
67.5°	43.8	57.8	73.2	87.4	98.4	105.9	110.8	115.1	114.5	113.3	112.6
70°	30.2	39.4	53.0	61.5	69.5	77.0	78.2	78.8	79.4	80.0	78.8
72.5°	20.9	27.7	35.1	42.5	47.4	50.5	53.6	54.1	54.1	54.1	53.6
75°	10.5	14.2	20.9	24.0	28.4	29.6	32.0	32.0	33.9	31.4	30.8
77.5°	9.2	11.1	14.7	17.2	19.1	20.9	21.5	23.4	22.7	21.5	22.2
80°	5.5	6.8	9.2	10.5	12.9	13.5	14.2	14.7	14.2	14.7	14.7
82.5°	4.3	5.0	6.2	6.2	8.0	8.0	8.7	8.7	9.2	9.2	9.2
85°	2.5	4.3	3.7	7.4	5.0	5.0	6.2	7.4	6.2	6.2	7.4
87.5°	2.5	2.5	1.8	2.5	2.5	2.5	3.0	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: P246165

CATALOG NUMBER: LSR8B30D010 EC8B30927 8LBDW0B

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1146.8	1146.8	1146.8	1146.8
2.5°	1148.6	1149.9	1148.1	1147.4
5°	1150.4	1150.4	1149.3	1149.3
7.5°	1150.4	1150.4	1148.6	1147.4
10°	1145.6	1145.6	1143.7	1142.4
12.5°	1136.4	1136.4	1135.7	1133.9
15°	1124.7	1124.7	1122.2	1120.3
17.5°	1108.6	1109.8	1106.8	1106.8
20°	1091.4	1090.8	1088.3	1087.1
22.5°	1073.6	1072.4	1071.7	1068.0
25°	1054.5	1053.2	1051.3	1049.5
27.5°	1021.8	1021.2	1019.4	1016.9
30°	972.0	971.3	968.8	968.8
32.5°	907.3	906.8	904.3	904.8
35°	840.3	842.7	841.5	839.0
37.5°	784.2	786.0	787.3	786.0
40°	737.4	742.9	743.6	744.9
42.5°	687.6	694.9	697.4	698.6
45°	627.9	634.6	640.2	639.0
47.5°	566.9	571.8	576.8	573.1
50°	508.5	511.5	513.3	513.3
52.5°	453.0	453.0	452.5	453.0
55°	389.7	389.7	387.2	388.5
57.5°	323.2	324.4	322.5	319.5
60°	261.6	258.5	257.3	255.5
62.5°	203.7	203.7	199.5	205.0
65°	152.7	150.9	149.0	148.4
67.5°	110.8	110.1	108.3	107.8
70°	78.2	75.7	75.1	73.9
72.5°	52.3	52.3	51.1	51.1
75°	32.0	28.9	28.4	28.9
77.5°	22.2	21.5	21.5	20.9
80°	14.7	14.2	15.4	13.5
82.5°	9.2	9.9	9.2	9.9
85°	6.2	7.4	6.8	6.8
87.5°	3.7	3.7	3.7	3.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)