

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: P244087

Luminaire Tested: **LSR8B15D010 EC8B15827 8LBSW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244087
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 EC8B15827 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1531.0 lumens
Efficiency: N/A
Efficacy: 106.3 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

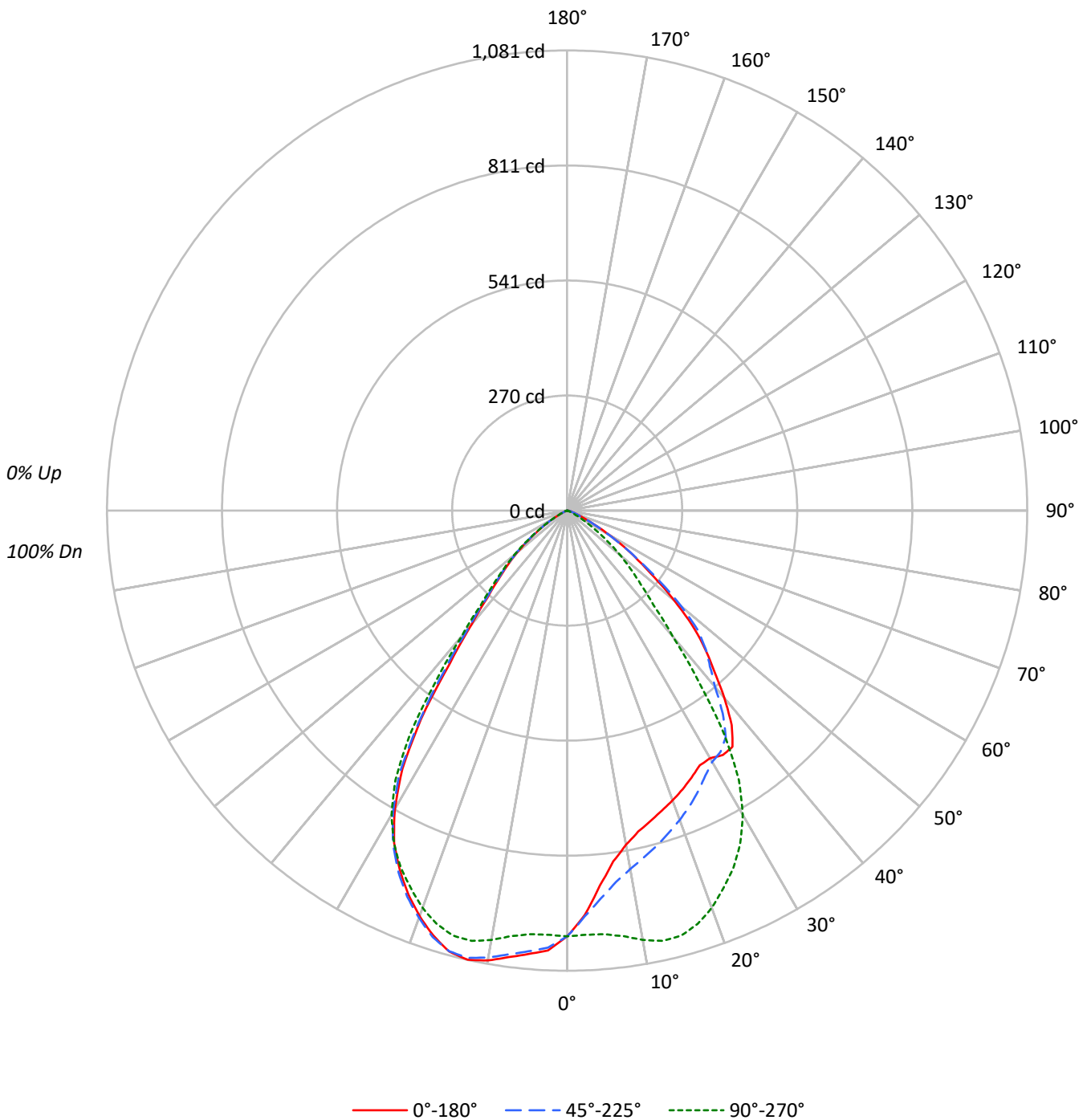
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P244087

CATALOG NUMBER: LSR8B15D010 EC8B15827 8LBSW0LI

Luminous Intensity Polar Plot





TEST NUMBER: P244087

CATALOG NUMBER: LSR8B15D010 EC8B15827 8LBSW0LI

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°	30842	30842	30842
5°	27363	30920	32366
10°	24949	32067	33598
15°	24112	33003	34235
20°	23765	32595	33268
25°	23534	31472	31670
30°	23917	29372	28827
35°	25493	24307	22545
40°	23102	15562	14089
45°	19942	10645	9912
50°	15735	7767	7311
55°	10919	4774	4494
60°	6951	2418	2159
65°	3473	956	730
70°	1920	478	261
75°	1382	346	131
80°	1119	231	53
85°	1203	177	0



TEST NUMBER: P244087

CATALOG NUMBER: LSR8B15D010 EC8B15827 8LBSW0LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.2	6.1
10°-20°	269.2	17.6
20°-30°	390.8	25.5
30°-40°	384.9	25.1
40°-50°	241.3	15.8
50°-60°	116.4	7.6
60°-70°	28.2	1.8
70°-80°	5.7	0.4
80°-90°	1.3	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°	753.2	49.2
0°-40°	1138.1	74.3
0°-60°	1495.8	97.7
0°-90°	1531.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1531.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1000	1000	1000	1000	1000	
5°	884	914	999	1039	1046	82
15°	755	815	1034	1072	1072	214
25°	692	728	925	938	931	320
35°	677	650	646	609	599	410
45°	457	460	244	234	227	350
55°	203	210	89	88	84	187
65°	48	47	13	11	10	54
75°	12	10	3	1	1	13
85°	3	3	0	0	0	3
90°	0	0	0	0	0	



TEST NUMBER: P244087

CATALOG NUMBER: LSR8B15D010 EC8B15827 8LBSWOLI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2
2.5°	950.8	944.7	933.4	947.1	947.1	939.5	954.7	945.5	952.9	964.4	954.2
5°	884.0	879.0	869.6	884.0	885.9	878.8	897.2	890.3	901.1	915.3	914.0
7.5°	831.2	824.9	816.2	831.2	834.1	829.4	847.0	843.8	858.0	876.4	879.6
10°	796.8	790.2	782.6	796.2	798.4	795.2	813.1	811.2	825.2	846.4	854.8
12.5°	772.3	766.8	758.4	772.9	775.2	770.8	787.6	786.8	801.2	823.6	834.1
15°	755.3	748.7	741.1	753.4	756.6	751.6	767.6	766.0	780.7	802.8	814.6
17.5°	739.2	733.2	725.3	736.9	740.0	734.8	750.5	747.9	760.5	781.5	793.6
20°	724.2	717.7	710.6	722.4	724.2	718.2	734.0	730.6	741.9	761.3	773.1
22.5°	708.7	701.9	694.5	706.1	708.0	701.9	716.4	712.4	722.9	740.5	751.3
25°	691.7	685.4	678.0	688.8	690.3	683.8	699.0	694.0	703.2	718.7	727.7
27.5°	674.6	668.5	660.4	671.4	672.2	665.9	679.8	673.0	680.6	694.8	702.4
30°	671.7	664.9	656.4	665.4	665.6	657.5	670.6	662.5	666.7	677.2	681.7
32.5°	680.9	674.1	665.4	672.7	671.9	663.0	675.6	665.6	667.0	672.5	671.4
35°	677.2	669.1	658.8	666.7	666.7	655.9	668.5	656.7	655.4	656.2	649.6
37.5°	635.4	629.1	619.4	627.0	626.2	618.1	627.8	618.1	613.6	611.8	599.9
40°	573.9	566.3	559.0	567.1	567.9	559.2	571.8	560.8	559.5	554.2	540.3
42.5°	511.6	509.0	501.9	508.8	512.4	505.1	515.6	510.3	511.1	509.8	496.7
45°	457.3	452.8	447.5	455.4	457.8	454.1	464.6	461.5	464.6	471.2	460.4
47.5°	398.6	394.2	388.4	396.8	401.0	394.2	403.1	402.1	406.8	418.1	417.0
50°	328.0	324.8	323.8	324.8	327.4	324.3	330.6	330.9	334.0	349.5	350.6
52.5°	259.6	258.8	255.2	258.6	258.6	253.6	259.9	257.0	260.2	270.7	277.5
55°	203.1	202.3	200.0	203.1	199.7	197.9	199.7	196.8	194.5	202.6	209.7
57.5°	158.2	155.6	152.7	154.0	153.7	149.8	151.9	148.5	146.6	149.5	155.8
60°	112.7	111.9	109.3	110.6	111.7	108.8	110.9	109.3	106.2	108.5	108.8
62.5°	74.9	75.4	73.8	74.1	73.3	72.8	74.1	74.9	74.1	73.1	73.3
65°	47.6	47.3	47.0	47.3	47.8	46.8	47.6	48.1	47.3	47.3	47.0
67.5°	31.5	30.7	30.0	30.5	31.0	30.2	31.0	30.7	31.0	30.7	30.0
70°	21.3	21.0	20.8	21.0	21.0	20.5	21.0	20.8	21.0	20.8	20.0
72.5°	15.5	15.5	15.2	15.5	15.5	15.0	15.2	14.7	15.0	14.7	14.2
75°	11.6	11.6	11.3	11.6	11.3	11.0	11.3	11.0	10.5	10.5	10.0
77.5°	8.4	8.4	8.4	8.4	8.4	8.1	8.1	7.9	7.6	7.4	7.4
80°	6.3	6.0	6.0	6.0	6.0	5.8	6.0	5.8	5.5	5.3	5.0
82.5°	4.5	4.7	4.5	4.5	4.5	4.2	4.5	4.2	4.2	3.9	3.4
85°	3.4	3.4	3.4	3.4	3.4	3.2	3.2	3.2	2.9	2.9	2.6
87.5°	1.8	1.8	1.8	2.1	1.8	1.8	1.8	1.6	1.6	1.3	1.3
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: P244087

CATALOG NUMBER: LSR8B15D010 EC8B15827 8LBSW0LI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2
2.5°	967.8	969.2	966.3	970.7	988.1	974.2	979.9	981.8	994.9	997.3	995.7
5°	931.1	936.8	940.5	950.5	969.7	959.7	970.0	976.5	993.3	998.9	1000.2
7.5°	902.2	914.2	923.2	939.5	962.1	954.4	970.0	980.7	1001.2	1008.3	1011.7
10°	880.6	899.0	914.5	936.8	962.3	957.3	977.6	992.8	1015.7	1024.1	1028.3
12.5°	864.3	886.6	907.4	935.8	963.4	961.0	985.5	1002.8	1027.0	1035.4	1040.4
15°	846.4	872.2	896.4	928.2	957.9	957.3	983.6	1002.0	1026.7	1033.8	1038.5
17.5°	825.2	852.7	879.3	913.7	943.1	943.7	970.2	988.3	1012.5	1018.3	1021.5
20°	803.6	830.9	857.5	893.0	921.9	922.6	948.7	965.5	988.6	993.3	994.1
22.5°	780.7	806.2	832.8	868.0	895.8	896.4	922.1	937.9	957.6	960.0	962.1
25°	754.7	779.7	804.7	839.6	866.1	867.7	891.1	905.0	923.2	925.0	925.8
27.5°	727.7	748.2	772.1	802.0	828.8	827.8	849.9	865.6	881.9	880.9	880.6
30°	700.3	717.4	732.1	761.0	780.7	781.5	802.3	809.9	827.0	824.9	824.6
32.5°	681.1	685.6	689.6	704.3	722.9	716.4	730.6	740.0	751.8	751.0	751.3
35°	645.9	637.8	626.0	628.1	639.4	629.1	636.7	636.5	648.6	645.7	649.1
37.5°	585.8	562.6	536.4	521.4	523.5	510.6	508.0	514.3	518.5	510.3	513.2
40°	521.6	487.5	446.5	412.3	410.5	394.4	391.6	385.2	393.4	386.6	388.7
42.5°	474.3	429.1	375.3	333.7	324.8	311.4	303.5	302.5	304.8	300.1	298.8
45°	438.1	390.0	328.2	280.7	270.7	256.2	248.3	245.4	245.7	244.1	242.8
47.5°	395.5	347.1	284.6	236.0	224.7	211.0	203.1	201.3	202.3	200.2	198.7
50°	336.6	293.3	236.2	191.8	181.8	171.9	165.6	163.7	163.5	161.9	160.8
52.5°	273.3	237.3	187.9	150.8	141.9	132.2	127.7	125.3	125.6	124.0	122.5
55°	211.5	189.2	145.6	114.1	105.9	98.3	94.1	91.2	90.4	88.8	88.0
57.5°	157.4	142.4	109.1	82.3	77.5	70.2	66.0	62.5	62.0	61.2	61.0
60°	110.4	99.6	76.7	58.6	53.1	48.6	44.4	41.0	39.4	39.2	38.4
62.5°	71.5	64.9	50.5	39.2	35.0	31.8	27.6	25.2	24.2	23.1	23.4
65°	44.4	39.4	31.5	25.2	22.9	20.5	17.3	15.2	14.2	13.1	13.4
67.5°	27.6	24.7	20.0	16.3	14.7	12.9	10.5	8.9	8.1	7.4	6.8
70°	18.7	16.0	13.7	11.6	10.5	9.2	7.6	6.3	5.8	5.3	4.7
72.5°	13.1	11.8	10.0	8.7	7.9	6.8	5.8	5.0	4.5	3.9	3.4
75°	9.5	8.4	7.4	6.3	5.8	5.3	4.5	3.9	3.4	2.9	2.4
77.5°	6.8	6.0	5.3	4.7	4.5	3.7	3.2	2.9	2.6	2.1	1.6
80°	4.7	4.2	3.4	3.2	3.2	2.6	2.4	2.1	1.8	1.3	1.1
82.5°	3.2	2.9	2.6	2.4	2.1	1.8	1.8	1.3	1.1	0.8	0.5
85°	2.4	2.1	1.8	1.6	1.6	1.3	1.1	0.8	0.8	0.5	0.3
87.5°	1.3	1.3	1.1	0.8	0.8	0.5	0.5	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



TEST NUMBER: P244087

CATALOG NUMBER: LSR8B15D010 EC8B15827 8LBSWOLI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2
2.5°	1009.1	1009.9	1014.4	1010.9	1019.6	1025.9	1022.8	1029.9	1027.5	1027.0	1035.1
5°	1015.9	1017.8	1023.8	1020.7	1030.1	1037.0	1033.8	1041.7	1039.3	1038.8	1047.2
7.5°	1029.1	1030.9	1036.2	1033.5	1043.5	1049.6	1045.6	1054.3	1051.2	1050.9	1059.0
10°	1045.6	1048.3	1052.7	1050.1	1059.3	1064.6	1060.6	1069.0	1066.1	1064.8	1073.8
12.5°	1058.0	1059.8	1064.3	1062.2	1071.1	1075.1	1071.6	1079.8	1076.1	1075.1	1082.9
15°	1055.1	1056.9	1060.6	1058.8	1067.2	1070.9	1066.4	1075.3	1071.6	1069.5	1076.6
17.5°	1036.7	1037.7	1040.4	1038.5	1047.5	1049.8	1044.8	1053.8	1050.4	1046.7	1053.5
20°	1009.6	1009.1	1010.7	1009.9	1017.3	1018.6	1015.4	1022.0	1018.0	1015.9	1019.9
22.5°	976.0	975.5	976.5	974.4	981.8	982.6	977.8	985.7	981.8	977.8	984.4
25°	938.7	935.8	935.3	936.1	941.0	941.8	936.8	942.6	937.6	934.5	940.8
27.5°	892.7	889.0	888.2	889.0	894.0	890.3	886.1	890.3	885.3	882.4	886.4
30°	835.9	830.7	828.3	826.7	832.0	830.7	820.9	825.7	817.8	813.6	816.5
32.5°	759.5	756.6	750.3	746.6	751.6	741.6	735.5	735.5	732.4	725.3	726.9
35°	653.3	648.8	643.0	639.9	640.7	627.3	617.3	619.4	608.9	607.0	607.8
37.5°	519.0	511.6	509.5	503.0	504.6	492.7	479.1	479.3	473.8	468.0	466.2
40°	390.0	388.7	386.6	381.0	383.1	370.3	365.0	365.3	361.6	357.4	359.5
42.5°	301.4	297.2	295.9	294.1	294.6	292.5	285.7	286.4	283.3	282.2	281.2
45°	244.9	240.5	237.3	238.9	238.9	236.5	233.9	235.5	233.9	231.8	232.8
47.5°	201.8	197.6	196.0	195.8	197.6	196.0	193.4	193.9	193.7	192.9	192.4
50°	161.1	160.0	158.7	157.9	158.7	158.2	155.8	157.1	157.9	155.3	156.1
52.5°	122.7	122.7	122.5	120.6	122.2	120.6	120.4	120.9	120.1	119.0	118.8
55°	89.9	89.1	87.8	87.5	88.0	87.5	87.0	87.2	87.8	85.1	85.1
57.5°	61.5	61.0	60.2	60.2	61.2	59.9	59.1	60.2	59.1	58.1	58.1
60°	39.4	39.2	38.4	38.4	38.4	38.1	37.3	37.6	38.1	36.5	36.8
62.5°	23.7	22.9	22.6	22.3	22.6	22.3	22.3	22.1	21.8	21.8	21.0
65°	12.9	12.4	11.8	12.1	12.1	11.8	11.8	11.8	11.3	11.0	10.8
67.5°	6.6	6.0	6.0	5.8	5.8	5.8	5.8	5.5	5.5	5.5	5.3
70°	4.2	3.9	3.7	3.7	3.7	3.4	3.4	3.4	3.4	3.4	3.2
72.5°	2.9	2.6	2.4	2.4	2.4	2.1	2.1	2.1	2.1	1.8	1.8
75°	2.1	1.8	1.6	1.6	1.6	1.3	1.3	1.3	1.3	1.3	1.3
77.5°	1.3	1.1	1.1	1.1	1.1	0.8	0.8	0.8	0.8	0.8	0.5
80°	0.8	0.8	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3
82.5°	0.5	0.5	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: P244087

CATALOG NUMBER: LSR8B15D010 EC8B15827 8LBSW0LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2
2.5°	1032.2	1030.1	1031.4	1041.2	1037.0	1035.6	1024.6	1034.3
5°	1044.6	1043.0	1043.0	1054.0	1049.0	1048.0	1037.2	1045.6
7.5°	1056.1	1054.6	1054.8	1066.1	1062.2	1060.6	1049.8	1058.2
10°	1071.1	1070.1	1070.3	1081.1	1076.9	1075.3	1064.3	1073.0
12.5°	1080.1	1078.5	1078.5	1090.0	1085.3	1082.9	1072.4	1080.8
15°	1073.2	1070.9	1070.9	1082.4	1077.2	1073.8	1064.6	1072.4
17.5°	1049.8	1047.5	1047.5	1057.5	1053.5	1048.5	1039.1	1046.4
20°	1017.3	1014.4	1013.6	1025.1	1019.6	1015.2	1006.7	1013.8
22.5°	980.5	979.1	976.8	988.3	983.4	978.6	969.7	975.2
25°	936.3	934.2	931.8	943.1	938.2	933.4	926.3	930.8
27.5°	881.4	881.7	880.3	889.3	884.3	881.7	873.0	880.3
30°	814.9	812.0	811.0	821.5	816.7	813.3	802.6	809.6
32.5°	728.2	724.0	718.5	730.3	722.1	719.3	710.1	720.3
35°	602.0	600.7	595.7	605.7	601.3	596.0	590.2	598.9
37.5°	465.4	466.4	465.9	468.6	465.9	462.5	456.2	453.0
40°	355.3	352.7	350.6	355.3	349.8	349.8	346.1	350.0
42.5°	278.6	277.5	280.1	281.2	278.0	277.5	277.0	276.7
45°	229.9	229.9	230.5	231.5	230.5	229.9	228.4	227.3
47.5°	189.5	190.5	189.5	192.9	191.0	190.5	187.4	188.7
50°	153.5	152.2	153.5	154.5	154.8	153.2	151.6	152.4
52.5°	119.0	116.9	116.4	118.0	116.9	116.9	115.9	115.6
55°	83.8	84.6	83.3	84.6	84.1	83.3	82.5	83.6
57.5°	56.8	57.0	56.5	57.3	56.0	56.2	56.0	55.7
60°	36.8	35.7	35.7	36.5	35.2	35.2	35.0	35.0
62.5°	21.0	20.8	20.8	20.5	20.2	20.2	20.2	19.7
65°	10.8	10.5	10.2	10.2	10.2	10.2	10.0	10.0
67.5°	5.3	5.0	5.0	5.3	5.0	5.0	5.0	5.0
70°	3.2	3.2	2.9	3.2	2.9	2.9	2.9	2.9
72.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
75°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
77.5°	0.8	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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)