

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: P245401

Luminaire Tested: **LSR8B15D010 EC8B15840 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245401
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 EC8B15840 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1564.0 lumens
Efficiency: N/A
Efficacy: 108.6 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

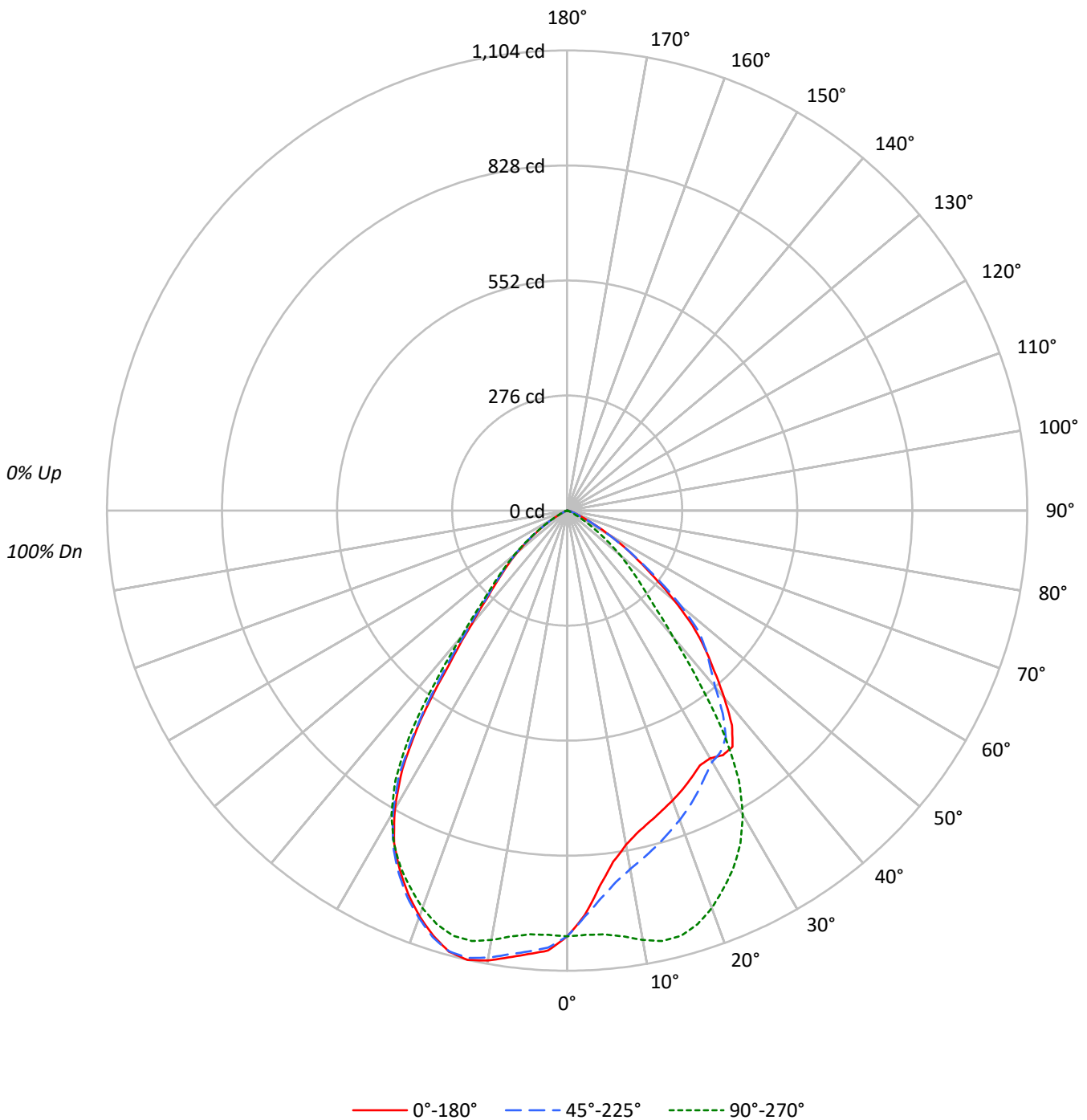
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P245401

CATALOG NUMBER: LSR8B15D010 EC8B15840 8LBSW0WH

Luminous Intensity Polar Plot





TEST NUMBER: P245401

CATALOG NUMBER: LSR8B15D010 EC8B15840 8LBSW0WH

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°	31505	31505	31505
5°	27955	31586	33065
10°	25485	32759	34321
15°	24629	33715	34976
20°	24280	33298	33987
25°	24041	32153	32354
30°	24433	30006	29450
35°	26042	24830	23031
40°	23601	15896	14395
45°	20370	10876	10126
50°	16071	7935	7469
55°	11156	4876	4591
60°	7105	2467	2202
65°	3546	978	744
70°	1956	487	270
75°	1406	357	131
80°	1137	231	53
85°	1238	177	0



TEST NUMBER: P245401

CATALOG NUMBER: LSR8B15D010 EC8B15840 8LBSW0WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.2	6.1
10°-20°	275.0	17.6
20°-30°	399.2	25.5
30°-40°	393.2	25.1
40°-50°	246.5	15.8
50°-60°	118.9	7.6
60°-70°	28.8	1.8
70°-80°	5.8	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°	769.5	49.2
0°-40°	1162.7	74.3
0°-60°	1528.1	97.7
0°-90°	1564.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1564.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1022	1022	1022	1022	1022	
5°	903	934	1020	1062	1068	84
15°	772	832	1056	1095	1096	218
25°	707	743	945	958	951	327
35°	692	664	660	622	612	419
45°	467	470	249	239	232	357
55°	208	214	91	90	85	191
65°	49	48	13	12	10	55
75°	12	10	3	1	1	13
85°	4	3	0	0	0	4
90°	0	0	0	0	0	



TEST NUMBER: P245401

CATALOG NUMBER: LSR8B15D010 EC8B15840 8LBSW0WH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7
2.5°	971.3	965.1	953.5	967.5	967.5	959.7	975.3	965.9	973.4	985.2	974.8
5°	903.1	898.0	888.3	903.1	905.0	897.7	916.5	909.5	920.5	935.0	933.7
7.5°	849.1	842.7	833.8	849.1	852.1	847.2	865.2	862.0	876.5	895.3	898.5
10°	813.9	807.2	799.5	813.4	815.6	812.3	830.6	828.7	842.9	864.7	873.3
12.5°	789.0	783.3	774.8	789.5	791.9	787.4	804.6	803.7	818.5	841.3	852.1
15°	771.5	764.8	757.0	769.7	772.9	767.8	784.1	782.5	797.6	820.1	832.2
17.5°	755.2	749.0	740.9	752.7	756.0	750.6	766.7	764.0	776.9	798.4	810.7
20°	739.9	733.1	725.9	738.0	739.9	733.7	749.8	746.3	757.8	777.7	789.8
22.5°	724.0	717.0	709.5	721.3	723.2	717.0	731.8	727.8	738.5	756.5	767.5
25°	706.6	700.1	692.6	703.6	705.2	698.5	714.1	709.0	718.4	734.2	743.3
27.5°	689.1	682.9	674.6	685.9	686.7	680.3	694.5	687.5	695.3	709.8	717.6
30°	686.2	679.2	670.6	679.7	680.0	671.7	685.1	676.8	681.1	691.8	696.4
32.5°	695.6	688.6	679.7	687.2	686.4	677.3	690.2	680.0	681.3	687.0	685.9
35°	691.8	683.5	673.0	681.1	681.1	670.1	682.9	670.9	669.5	670.3	663.6
37.5°	649.1	642.7	632.7	640.5	639.7	631.4	641.3	631.4	626.8	625.0	612.9
40°	586.3	578.5	571.0	579.3	580.1	571.3	584.2	572.9	571.5	566.2	551.9
42.5°	522.7	520.0	512.7	519.7	523.5	516.0	526.7	521.3	522.1	520.8	507.4
45°	467.1	462.5	457.2	465.2	467.6	463.9	474.6	471.4	474.6	481.3	470.3
47.5°	407.2	402.7	396.8	405.4	409.7	402.7	411.8	410.7	415.6	427.1	426.0
50°	335.0	331.8	330.7	331.8	334.5	331.3	337.7	338.0	341.2	357.0	358.1
52.5°	265.2	264.4	260.7	264.2	264.2	259.1	265.5	262.5	265.8	276.5	283.5
55°	207.5	206.7	204.3	207.5	204.0	202.1	204.0	201.1	198.7	207.0	214.2
57.5°	161.6	158.9	156.0	157.3	157.0	153.0	155.2	151.7	149.8	152.7	159.2
60°	115.2	114.4	111.7	113.0	114.1	111.1	113.3	111.7	108.5	110.9	111.1
62.5°	76.5	77.0	75.4	75.7	74.9	74.4	75.7	76.5	75.7	74.6	74.9
65°	48.6	48.3	48.1	48.3	48.9	47.8	48.6	49.1	48.3	48.3	48.1
67.5°	32.2	31.4	30.6	31.1	31.7	30.9	31.7	31.4	31.7	31.4	30.6
70°	21.7	21.5	21.2	21.5	21.5	20.9	21.5	21.2	21.5	21.2	20.4
72.5°	15.8	15.8	15.6	15.8	15.8	15.3	15.6	15.0	15.3	15.0	14.5
75°	11.8	11.8	11.5	11.8	11.5	11.3	11.5	11.3	10.7	10.7	10.2
77.5°	8.6	8.6	8.6	8.6	8.6	8.3	8.3	8.1	7.8	7.5	7.5
80°	6.4	6.2	6.2	6.2	6.2	5.9	6.2	5.9	5.6	5.4	5.1
82.5°	4.6	4.8	4.6	4.6	4.6	4.3	4.6	4.3	4.3	4.0	3.5
85°	3.5	3.5	3.5	3.5	3.5	3.2	3.2	3.2	3.0	3.0	2.7
87.5°	1.9	1.9	1.9	2.1	1.9	1.9	1.9	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: P245401

CATALOG NUMBER: LSR8B15D010 EC8B15840 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7
2.5°	988.7	990.1	987.1	991.7	1009.4	995.2	1001.1	1002.9	1016.4	1018.8	1017.2
5°	951.1	957.0	960.8	971.0	990.6	980.4	990.9	997.6	1014.7	1020.4	1021.7
7.5°	921.6	933.9	943.1	959.7	982.8	975.0	990.9	1001.9	1022.8	1030.1	1033.5
10°	899.6	918.4	934.2	957.0	983.1	978.0	998.6	1014.2	1037.6	1046.2	1050.5
12.5°	882.9	905.8	927.0	956.0	984.1	981.7	1006.7	1024.4	1049.1	1057.7	1062.8
15°	864.7	891.0	915.7	948.2	978.5	978.0	1004.8	1023.6	1048.8	1056.1	1060.9
17.5°	842.9	871.1	898.2	933.4	963.5	964.0	991.1	1009.6	1034.3	1040.3	1043.5
20°	820.9	848.8	876.0	912.2	941.7	942.5	969.1	986.3	1009.9	1014.7	1015.6
22.5°	797.6	823.6	850.7	886.7	915.2	915.7	942.0	958.1	978.2	980.7	982.8
25°	771.0	796.5	822.0	857.7	884.8	886.4	910.3	924.5	943.1	945.0	945.8
27.5°	743.3	764.3	788.7	819.3	846.7	845.6	868.2	884.3	900.9	899.9	899.6
30°	715.4	732.9	747.9	777.4	797.6	798.4	819.6	827.4	844.8	842.7	842.4
32.5°	695.8	700.4	704.4	719.5	738.5	731.8	746.3	756.0	768.0	767.2	767.5
35°	659.9	651.5	639.5	641.6	653.1	642.7	650.5	650.2	662.5	659.6	663.1
37.5°	598.4	574.8	547.9	532.6	534.8	521.6	518.9	525.4	529.7	521.3	524.3
40°	532.9	498.0	456.1	421.2	419.3	402.9	400.0	393.6	401.9	394.9	397.0
42.5°	484.6	438.4	383.3	340.9	331.8	318.1	310.1	309.0	311.4	306.6	305.2
45°	447.5	398.4	335.3	286.7	276.5	261.7	253.7	250.7	251.0	249.4	248.0
47.5°	404.0	354.6	290.7	241.1	229.5	215.6	207.5	205.6	206.7	204.6	202.9
50°	343.9	299.6	241.3	196.0	185.8	175.6	169.1	167.2	167.0	165.4	164.3
52.5°	279.2	242.4	191.9	154.1	145.0	135.0	130.5	128.1	128.3	126.7	125.1
55°	216.1	193.3	148.7	116.5	108.2	100.4	96.1	93.2	92.3	90.7	89.9
57.5°	160.8	145.5	111.4	84.0	79.2	71.7	67.4	63.9	63.4	62.5	62.3
60°	112.7	101.7	78.4	59.9	54.2	49.7	45.4	41.9	40.3	40.0	39.2
62.5°	73.0	66.3	51.5	40.0	35.7	32.5	28.2	25.8	24.7	23.6	23.9
65°	45.4	40.3	32.2	25.8	23.4	20.9	17.7	15.6	14.5	13.4	13.7
67.5°	28.2	25.2	20.4	16.6	15.0	13.2	10.7	9.1	8.3	7.5	7.0
70°	19.1	16.4	14.0	11.8	10.7	9.4	7.8	6.4	5.9	5.4	4.8
72.5°	13.4	12.1	10.2	8.9	8.1	7.0	5.9	5.1	4.6	4.0	3.5
75°	9.7	8.6	7.5	6.4	5.9	5.4	4.6	4.0	3.5	3.0	2.4
77.5°	7.0	6.2	5.4	4.8	4.6	3.8	3.2	3.0	2.7	2.1	1.6
80°	4.8	4.3	3.5	3.2	3.2	2.7	2.4	2.1	1.9	1.3	1.1
82.5°	3.2	3.0	2.7	2.4	2.1	1.9	1.9	1.3	1.1	0.8	0.5
85°	2.4	2.1	1.9	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: P245401

CATALOG NUMBER: LSR8B15D010 EC8B15840 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7
2.5°	1030.9	1031.7	1036.2	1032.7	1041.6	1048.0	1044.8	1052.1	1049.6	1049.1	1057.4
5°	1037.8	1039.7	1045.9	1042.7	1052.3	1059.3	1056.1	1064.1	1061.7	1061.2	1069.8
7.5°	1051.3	1053.1	1058.5	1055.8	1066.0	1072.2	1068.2	1077.0	1073.8	1073.5	1081.9
10°	1068.2	1070.9	1075.4	1072.7	1082.1	1087.5	1083.5	1092.1	1089.1	1087.8	1096.9
12.5°	1080.8	1082.7	1087.2	1085.1	1094.2	1098.2	1094.7	1103.1	1099.3	1098.2	1106.3
15°	1077.8	1079.7	1083.5	1081.6	1090.2	1093.9	1089.4	1098.5	1094.7	1092.6	1099.8
17.5°	1059.0	1060.1	1062.8	1060.9	1070.1	1072.5	1067.4	1076.5	1073.0	1069.2	1076.2
20°	1031.4	1030.9	1032.5	1031.7	1039.2	1040.5	1037.3	1044.0	1040.0	1037.8	1041.9
22.5°	997.0	996.5	997.6	995.4	1002.9	1003.7	998.9	1007.0	1002.9	998.9	1005.6
25°	958.9	956.0	955.4	956.2	961.3	962.1	957.0	962.9	957.8	954.6	961.1
27.5°	911.9	908.2	907.4	908.2	913.3	909.5	905.2	909.5	904.4	901.5	905.5
30°	853.9	848.6	846.2	844.6	849.9	848.6	838.6	843.5	835.4	831.1	834.1
32.5°	775.8	772.9	766.4	762.7	767.8	757.6	751.4	751.4	748.2	740.9	742.5
35°	667.4	662.8	656.9	653.7	654.5	640.8	630.6	632.7	622.0	620.1	620.9
37.5°	530.2	522.7	520.5	513.8	515.4	503.3	489.4	489.7	484.0	478.1	476.2
40°	398.4	397.0	394.9	389.3	391.4	378.2	372.9	373.1	369.4	365.1	367.2
42.5°	307.9	303.6	302.3	300.4	300.9	298.8	291.8	292.6	289.4	288.3	287.2
45°	250.2	245.6	242.4	244.0	244.0	241.6	238.9	240.5	238.9	236.8	237.8
47.5°	206.2	201.9	200.3	200.0	201.9	200.3	197.6	198.1	197.8	197.0	196.5
50°	164.6	163.5	162.1	161.3	162.1	161.6	159.2	160.5	161.3	158.7	159.5
52.5°	125.4	125.4	125.1	123.2	124.8	123.2	123.0	123.5	122.7	121.6	121.3
55°	91.8	91.0	89.7	89.4	89.9	89.4	88.9	89.1	89.7	87.0	87.0
57.5°	62.8	62.3	61.5	61.5	62.5	61.2	60.4	61.5	60.4	59.3	59.3
60°	40.3	40.0	39.2	39.2	39.2	38.9	38.1	38.4	38.9	37.3	37.6
62.5°	24.2	23.4	23.1	22.8	23.1	22.8	22.8	22.5	22.3	22.3	21.5
65°	13.2	12.6	12.1	12.3	12.3	12.1	12.1	12.1	11.5	11.3	11.0
67.5°	6.7	6.2	6.2	5.9	5.9	5.9	5.9	5.6	5.6	5.6	5.4
70°	4.3	4.0	3.8	3.8	3.8	3.5	3.5	3.5	3.5	3.5	3.2
72.5°	3.0	2.7	2.4	2.4	2.4	2.1	2.1	2.1	2.1	1.9	1.9
75°	2.1	1.9	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: P245401

CATALOG NUMBER: LSR8B15D010 EC8B15840 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7
2.5°	1054.5	1052.3	1053.7	1063.6	1059.3	1058.0	1046.7	1056.6
5°	1067.1	1065.5	1065.5	1076.8	1071.7	1070.6	1059.6	1068.2
7.5°	1078.9	1077.3	1077.6	1089.1	1085.1	1083.5	1072.5	1081.1
10°	1094.2	1093.1	1093.4	1104.4	1100.1	1098.5	1087.2	1096.1
12.5°	1103.3	1101.7	1101.7	1113.5	1108.7	1106.3	1095.6	1104.1
15°	1096.4	1093.9	1093.9	1105.8	1100.4	1096.9	1087.5	1095.6
17.5°	1072.5	1070.1	1070.1	1080.3	1076.2	1071.1	1061.5	1069.0
20°	1039.2	1036.2	1035.4	1047.2	1041.6	1037.0	1028.4	1035.7
22.5°	1001.6	1000.3	997.8	1009.6	1004.5	999.7	990.6	996.2
25°	956.5	954.3	951.9	963.5	958.4	953.5	946.3	950.9
27.5°	900.4	900.7	899.3	908.4	903.3	900.7	891.8	899.3
30°	832.5	829.5	828.4	839.2	834.3	830.9	819.9	827.1
32.5°	743.9	739.6	733.9	746.0	737.7	734.8	725.4	735.8
35°	615.0	613.7	608.6	618.8	614.2	608.8	602.9	611.8
37.5°	475.4	476.5	476.0	478.7	476.0	472.5	466.0	462.8
40°	362.9	360.3	358.1	362.9	357.3	357.3	353.6	357.6
42.5°	284.6	283.5	286.2	287.2	284.0	283.5	282.9	282.7
45°	234.9	234.9	235.4	236.5	235.4	234.9	233.3	232.2
47.5°	193.6	194.6	193.6	197.0	195.2	194.6	191.4	192.7
50°	156.8	155.4	156.8	157.8	158.1	156.5	154.9	155.7
52.5°	121.6	119.5	118.9	120.5	119.5	119.5	118.4	118.1
55°	85.6	86.4	85.1	86.4	85.9	85.1	84.3	85.4
57.5°	58.0	58.3	57.7	58.5	57.2	57.4	57.2	56.9
60°	37.6	36.5	36.5	37.3	36.0	36.0	35.7	35.7
62.5°	21.5	21.2	21.2	20.9	20.7	20.7	20.7	20.1
65°	11.0	10.7	10.5	10.5	10.5	10.5	10.2	10.2
67.5°	5.4	5.1	5.1	5.4	5.1	5.1	5.1	5.1
70°	3.2	3.2	3.0	3.2	3.0	3.0	3.0	3.0
72.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
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)