

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: P244099

Luminaire Tested: **LSR8B15D010 EC8B15835 8LBSW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244099
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 EC8B15835 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1632.0 lumens
Efficiency: N/A
Efficacy: 113.3 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

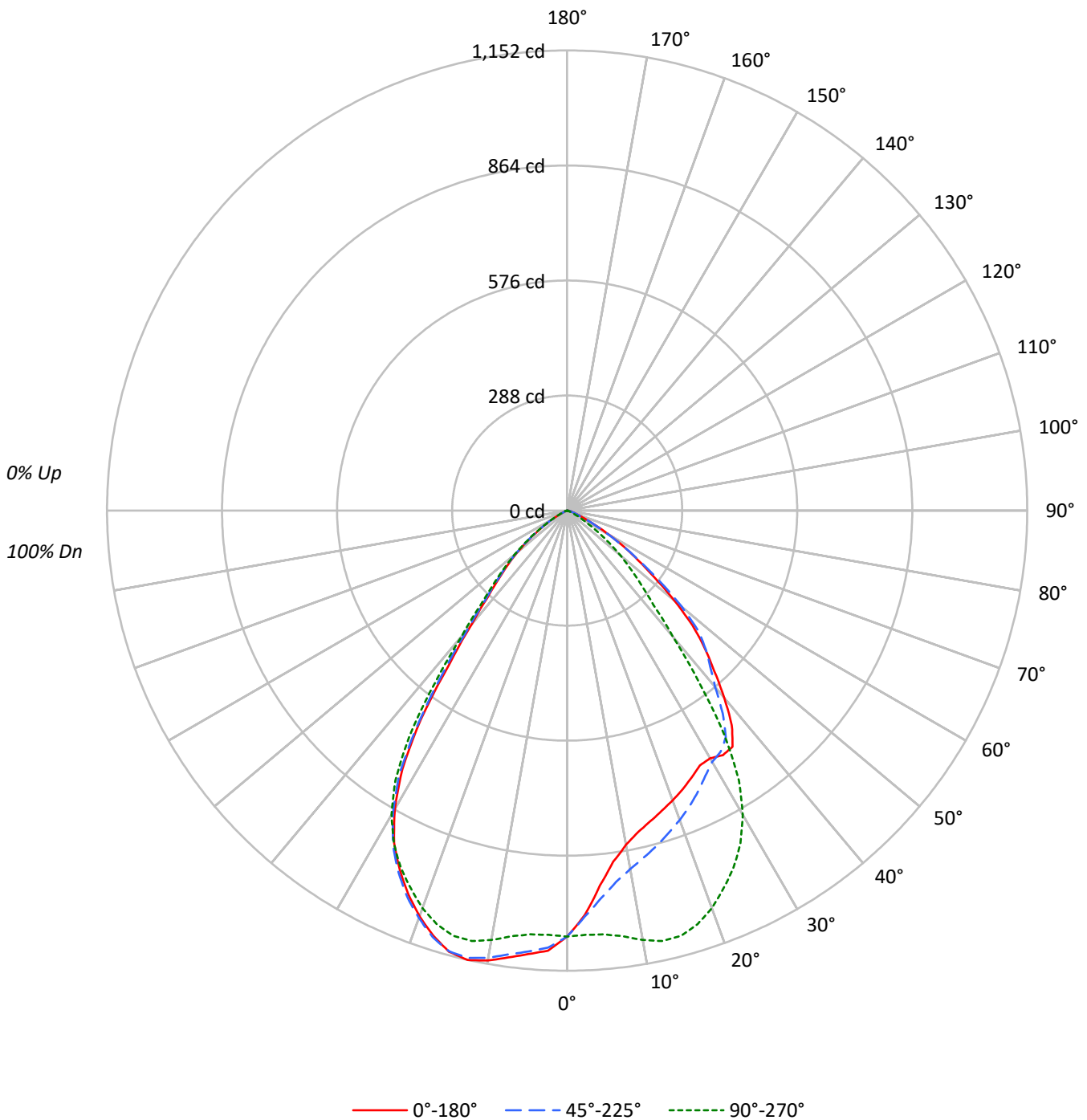
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	32878	32878	32878
5°	29168	32960	34501
10°	26593	34180	35812
15°	25702	35180	36496
20°	25333	34748	35464
25°	25086	33548	33759
30°	25494	31309	30732
35°	27175	25910	24032
40°	24627	16589	15019
45°	21255	11347	10566
50°	16771	8280	7796
55°	11639	5091	4790
60°	7413	2572	2300
65°	3699	1022	773
70°	2047	505	279
75°	1465	369	131
80°	1190	249	53
85°	1274	212	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.4	6.1
10°-20°	287.0	17.6
20°-30°	416.6	25.5
30°-40°	410.3	25.1
40°-50°	257.2	15.8
50°-60°	124.1	7.6
60°-70°	30.0	1.8
70°-80°	6.1	0.4
80°-90°	1.4	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°	802.9	49.2
0°-40°	1213.2	74.3
0°-60°	1594.5	97.7
0°-90°	1632.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1632.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1066	1066	1066	1066	1066	
5°	942	974	1065	1108	1115	87
15°	805	868	1102	1142	1143	228
25°	737	776	986	1000	992	341
35°	722	692	688	649	638	437
45°	487	491	260	249	242	373
55°	216	224	95	94	89	199
65°	51	50	14	12	11	58
75°	12	11	3	1	1	14
85°	4	3	1	0	0	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2
2.5°	1013.5	1007.0	995.0	1009.6	1009.6	1001.4	1017.7	1007.9	1015.7	1028.1	1017.1
5°	942.3	937.0	926.9	942.3	944.3	936.7	956.3	949.1	960.5	975.7	974.3
7.5°	886.0	879.3	870.1	886.0	889.1	884.1	902.8	899.5	914.6	934.2	937.6
10°	849.3	842.3	834.2	848.8	851.0	847.7	866.7	864.7	879.6	902.3	911.2
12.5°	823.3	817.4	808.4	823.8	826.4	821.6	839.5	838.7	854.1	877.9	889.1
15°	805.1	798.1	790.0	803.1	806.5	801.2	818.2	816.6	832.2	855.8	868.4
17.5°	788.0	781.5	773.1	785.5	788.8	783.2	800.0	797.2	810.7	833.1	846.0
20°	772.0	765.0	757.5	770.1	772.0	765.6	782.4	778.7	790.8	811.5	824.1
22.5°	755.5	748.2	740.4	752.7	754.7	748.2	763.6	759.4	770.6	789.4	800.9
25°	737.3	730.6	722.7	734.2	735.9	728.9	745.1	739.8	749.6	766.1	775.7
27.5°	719.1	712.6	704.0	715.7	716.6	709.8	724.7	717.4	725.5	740.6	748.8
30°	716.0	708.7	699.8	709.3	709.6	700.9	714.9	706.2	710.7	721.9	726.6
32.5°	725.8	718.5	709.3	717.1	716.3	706.8	720.2	709.6	711.0	716.8	715.7
35°	721.9	713.2	702.3	710.7	710.7	699.2	712.6	700.0	698.6	699.5	692.5
37.5°	677.3	670.6	660.3	668.4	667.5	658.9	669.2	658.9	654.1	652.1	639.5
40°	611.8	603.7	595.8	604.5	605.3	596.1	609.6	597.8	596.4	590.8	575.9
42.5°	545.4	542.6	535.0	542.3	546.2	538.4	549.6	544.0	544.8	543.4	529.4
45°	487.4	482.7	477.1	485.5	488.0	484.1	495.3	491.9	495.3	502.3	490.8
47.5°	424.9	420.2	414.0	423.0	427.5	420.2	429.7	428.6	433.6	445.7	444.6
50°	349.6	346.2	345.1	346.2	349.0	345.7	352.4	352.7	356.0	372.6	373.7
52.5°	276.8	275.9	272.0	275.6	275.6	270.3	277.0	274.0	277.3	288.5	295.8
55°	216.5	215.7	213.2	216.5	212.9	210.9	212.9	209.8	207.3	216.0	223.5
57.5°	168.6	165.8	162.8	164.2	163.9	159.7	161.9	158.3	156.3	159.4	166.1
60°	120.2	119.3	116.5	117.9	119.1	116.0	118.2	116.5	113.2	115.7	116.0
62.5°	79.8	80.4	78.7	79.0	78.2	77.6	79.0	79.8	79.0	77.9	78.2
65°	50.7	50.4	50.1	50.4	51.0	49.9	50.7	51.3	50.4	50.4	50.1
67.5°	33.6	32.8	31.9	32.5	33.1	32.2	33.1	32.8	33.1	32.8	31.9
70°	22.7	22.4	22.1	22.4	22.4	21.8	22.4	22.1	22.4	22.1	21.3
72.5°	16.5	16.5	16.2	16.5	16.5	16.0	16.2	15.7	16.0	15.7	15.1
75°	12.3	12.3	12.0	12.3	12.0	11.8	12.0	11.8	11.2	11.2	10.6
77.5°	9.0	9.0	9.0	9.0	9.0	8.7	8.7	8.4	8.1	7.8	7.8
80°	6.7	6.4	6.4	6.4	6.4	6.2	6.4	6.2	5.9	5.6	5.3
82.5°	4.8	5.0	4.8	4.8	4.8	4.5	4.8	4.5	4.5	4.2	3.6
85°	3.6	3.6	3.6	3.6	3.6	3.4	3.4	3.4	3.1	3.1	2.8
87.5°	2.0	2.0	2.0	2.2	2.0	2.0	2.0	1.7	1.7	1.4	1.4
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2
2.5°	1031.7	1033.1	1030.0	1034.8	1053.3	1038.4	1044.6	1046.5	1060.6	1063.1	1061.4
5°	992.5	998.6	1002.6	1013.2	1033.7	1023.0	1033.9	1040.9	1058.9	1064.8	1066.2
7.5°	961.7	974.6	984.1	1001.4	1025.5	1017.4	1033.9	1045.4	1067.3	1074.8	1078.5
10°	938.7	958.3	974.8	998.6	1025.8	1020.5	1042.1	1058.3	1082.7	1091.6	1096.1
12.5°	921.3	945.1	967.3	997.5	1026.9	1024.4	1050.5	1069.0	1094.7	1103.7	1109.0
15°	902.3	929.7	955.5	989.4	1021.1	1020.5	1048.5	1068.1	1094.4	1102.0	1107.1
17.5°	879.6	909.0	937.3	974.0	1005.4	1005.9	1034.2	1053.5	1079.3	1085.5	1088.8
20°	856.6	885.8	914.0	951.9	982.7	983.5	1011.2	1029.2	1053.8	1058.9	1059.7
22.5°	832.2	859.4	887.7	925.3	954.9	955.5	983.0	999.8	1020.8	1023.3	1025.5
25°	804.5	831.1	857.7	895.0	923.3	925.0	949.9	964.7	984.1	986.0	986.9
27.5°	775.7	797.5	823.0	854.9	883.5	882.4	905.9	922.7	940.1	939.0	938.7
30°	746.5	764.7	780.4	811.2	832.2	833.1	855.2	863.3	881.6	879.3	879.0
32.5°	726.1	730.8	735.0	750.7	770.6	763.6	778.7	788.8	801.4	800.6	800.9
35°	688.5	679.9	667.3	669.5	681.5	670.6	678.7	678.5	691.3	688.3	691.9
37.5°	624.4	599.7	571.7	555.8	558.0	544.3	541.5	548.2	552.7	544.0	547.1
40°	556.0	519.6	475.9	439.5	437.6	420.5	417.4	410.7	419.3	412.1	414.3
42.5°	505.6	457.4	400.0	355.8	346.2	331.9	323.5	322.4	324.9	319.9	318.5
45°	467.0	415.7	349.9	299.2	288.5	273.1	264.7	261.6	261.9	260.2	258.8
47.5°	421.6	370.0	303.4	251.6	239.5	224.9	216.5	214.6	215.7	213.5	211.8
50°	358.8	312.6	251.8	204.5	193.8	183.2	176.5	174.5	174.2	172.6	171.4
52.5°	291.3	253.0	200.3	160.8	151.3	140.9	136.1	133.6	133.9	132.2	130.5
55°	225.5	201.7	155.2	121.6	112.9	104.8	100.3	97.2	96.4	94.7	93.8
57.5°	167.8	151.8	116.3	87.7	82.6	74.8	70.3	66.7	66.1	65.3	65.0
60°	117.7	106.2	81.8	62.5	56.6	51.8	47.3	43.7	42.0	41.7	40.9
62.5°	76.2	69.2	53.8	41.7	37.3	33.9	29.4	26.9	25.8	24.7	24.9
65°	47.3	42.0	33.6	26.9	24.4	21.8	18.5	16.2	15.1	14.0	14.3
67.5°	29.4	26.3	21.3	17.4	15.7	13.7	11.2	9.5	8.7	7.8	7.3
70°	19.9	17.1	14.6	12.3	11.2	9.8	8.1	6.7	6.2	5.6	5.0
72.5°	14.0	12.6	10.6	9.2	8.4	7.3	6.2	5.3	4.8	4.2	3.6
75°	10.1	9.0	7.8	6.7	6.2	5.6	4.8	4.2	3.6	3.1	2.5
77.5°	7.3	6.4	5.6	5.0	4.8	3.9	3.4	3.1	2.8	2.2	1.7
80°	5.0	4.5	3.6	3.4	3.4	2.8	2.5	2.2	2.0	1.4	1.1
82.5°	3.4	3.1	2.8	2.5	2.2	2.0	2.0	1.4	1.1	0.8	0.6
85°	2.5	2.2	2.0	1.7	1.7	1.4	1.1	0.8	0.8	0.6	0.3
87.5°	1.4	1.4	1.1	0.8	0.8	0.6	0.6	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2
2.5°	1075.7	1076.5	1081.3	1077.6	1086.9	1093.6	1090.2	1097.8	1095.3	1094.7	1103.4
5°	1083.0	1084.9	1091.4	1088.0	1098.1	1105.4	1102.0	1110.4	1107.9	1107.3	1116.3
7.5°	1097.0	1098.9	1104.5	1101.7	1112.4	1118.8	1114.6	1123.9	1120.5	1120.2	1128.9
10°	1114.6	1117.4	1122.2	1119.4	1129.2	1134.8	1130.6	1139.5	1136.5	1135.1	1144.6
12.5°	1127.8	1129.7	1134.5	1132.3	1141.8	1146.0	1142.3	1151.0	1147.1	1146.0	1154.4
15°	1124.7	1126.7	1130.6	1128.6	1137.6	1141.5	1136.7	1146.3	1142.3	1140.1	1147.7
17.5°	1105.1	1106.2	1109.0	1107.1	1116.6	1119.1	1113.8	1123.3	1119.7	1115.7	1123.0
20°	1076.2	1075.7	1077.4	1076.5	1084.4	1085.8	1082.4	1089.4	1085.2	1083.0	1087.2
22.5°	1040.4	1039.8	1040.9	1038.7	1046.5	1047.4	1042.3	1050.7	1046.5	1042.3	1049.3
25°	1000.6	997.5	997.0	997.8	1003.1	1004.0	998.6	1004.8	999.5	996.1	1002.8
27.5°	951.6	947.7	946.8	947.7	953.0	949.1	944.6	949.1	943.7	940.7	944.9
30°	891.1	885.5	883.0	881.3	886.9	885.5	875.1	880.2	871.7	867.3	870.3
32.5°	809.6	806.5	799.8	795.8	801.2	790.5	784.1	784.1	780.7	773.1	774.8
35°	696.4	691.6	685.5	682.1	682.9	668.7	658.0	660.3	649.0	647.1	647.9
37.5°	553.2	545.4	543.2	536.2	537.8	525.2	510.7	510.9	505.1	498.9	496.9
40°	415.7	414.3	412.1	406.2	408.4	394.7	389.1	389.4	385.5	381.0	383.2
42.5°	321.3	316.8	315.4	313.5	314.0	311.8	304.5	305.3	302.0	300.9	299.7
45°	261.1	256.3	253.0	254.6	254.6	252.1	249.3	251.0	249.3	247.1	248.2
47.5°	215.1	210.7	209.0	208.7	210.7	209.0	206.2	206.7	206.5	205.6	205.1
50°	171.7	170.6	169.2	168.4	169.2	168.6	166.1	167.5	168.4	165.6	166.4
52.5°	130.8	130.8	130.5	128.6	130.3	128.6	128.3	128.9	128.0	126.9	126.6
55°	95.8	95.0	93.6	93.3	93.8	93.3	92.7	93.0	93.6	90.8	90.8
57.5°	65.5	65.0	64.1	64.1	65.3	63.9	63.0	64.1	63.0	61.9	61.9
60°	42.0	41.7	40.9	40.9	40.9	40.6	39.8	40.1	40.6	38.9	39.2
62.5°	25.2	24.4	24.1	23.8	24.1	23.8	23.8	23.5	23.3	23.3	22.4
65°	13.7	13.2	12.6	12.9	12.9	12.6	12.6	12.6	12.0	11.8	11.5
67.5°	7.0	6.4	6.4	6.2	6.2	6.2	6.2	5.9	5.9	5.9	5.6
70°	4.5	4.2	3.9	3.9	3.9	3.6	3.6	3.6	3.6	3.6	3.4
72.5°	3.1	2.8	2.5	2.5	2.5	2.2	2.2	2.2	2.2	2.0	2.0
75°	2.2	2.0	1.7	1.7	1.7	1.4	1.4	1.4	1.4	1.4	1.4
77.5°	1.4	1.1	1.1	1.1	1.1	0.8	0.8	0.8	0.8	0.8	0.6
80°	0.8	0.8	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.3
82.5°	0.6	0.6	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: P244099

CATALOG NUMBER: LSR8B15D010 EC8B15835 8LBSW0LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2
2.5°	1100.3	1098.1	1099.5	1109.9	1105.4	1104.0	1092.2	1102.6
5°	1113.5	1111.8	1111.8	1123.6	1118.3	1117.1	1105.6	1114.6
7.5°	1125.8	1124.1	1124.4	1136.5	1132.3	1130.6	1119.1	1128.1
10°	1141.8	1140.7	1140.9	1152.4	1147.9	1146.3	1134.5	1143.7
12.5°	1151.3	1149.6	1149.6	1162.0	1156.9	1154.4	1143.2	1152.2
15°	1144.0	1141.5	1141.5	1153.8	1148.2	1144.6	1134.8	1143.2
17.5°	1119.1	1116.6	1116.6	1127.2	1123.0	1117.7	1107.6	1115.5
20°	1084.4	1081.3	1080.4	1092.8	1086.9	1082.1	1073.2	1080.7
22.5°	1045.1	1043.7	1041.2	1053.5	1048.2	1043.2	1033.7	1039.5
25°	998.1	995.8	993.3	1005.4	1000.0	995.0	987.4	992.2
27.5°	939.5	939.8	938.4	947.9	942.6	939.8	930.6	938.4
30°	868.7	865.6	864.5	875.7	870.6	867.0	855.5	863.1
32.5°	776.2	771.7	765.9	778.5	769.8	766.7	756.9	767.8
35°	641.8	640.4	635.0	645.7	640.9	635.3	629.2	638.4
37.5°	496.1	497.2	496.7	499.5	496.7	493.0	486.3	482.9
40°	378.7	375.9	373.7	378.7	372.8	372.8	368.9	373.1
42.5°	296.9	295.8	298.6	299.7	296.4	295.8	295.3	295.0
45°	245.1	245.1	245.7	246.8	245.7	245.1	243.4	242.3
47.5°	202.0	203.1	202.0	205.6	203.7	203.1	199.7	201.1
50°	163.6	162.2	163.6	164.7	165.0	163.3	161.6	162.5
52.5°	126.9	124.7	124.1	125.8	124.7	124.7	123.5	123.3
55°	89.4	90.2	88.8	90.2	89.6	88.8	88.0	89.1
57.5°	60.5	60.8	60.2	61.1	59.7	59.9	59.7	59.4
60°	39.2	38.1	38.1	38.9	37.5	37.5	37.3	37.3
62.5°	22.4	22.1	22.1	21.8	21.6	21.6	21.6	21.0
65°	11.5	11.2	10.9	10.9	10.9	10.9	10.6	10.6
67.5°	5.6	5.3	5.3	5.6	5.3	5.3	5.3	5.3
70°	3.4	3.4	3.1	3.4	3.1	3.1	3.1	3.1
72.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
75°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
77.5°	0.8	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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)