

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: P248393

Luminaire Tested: **LSR8B100D010 EC8B100935 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248393
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100935 8LBDWOLI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9748.0 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

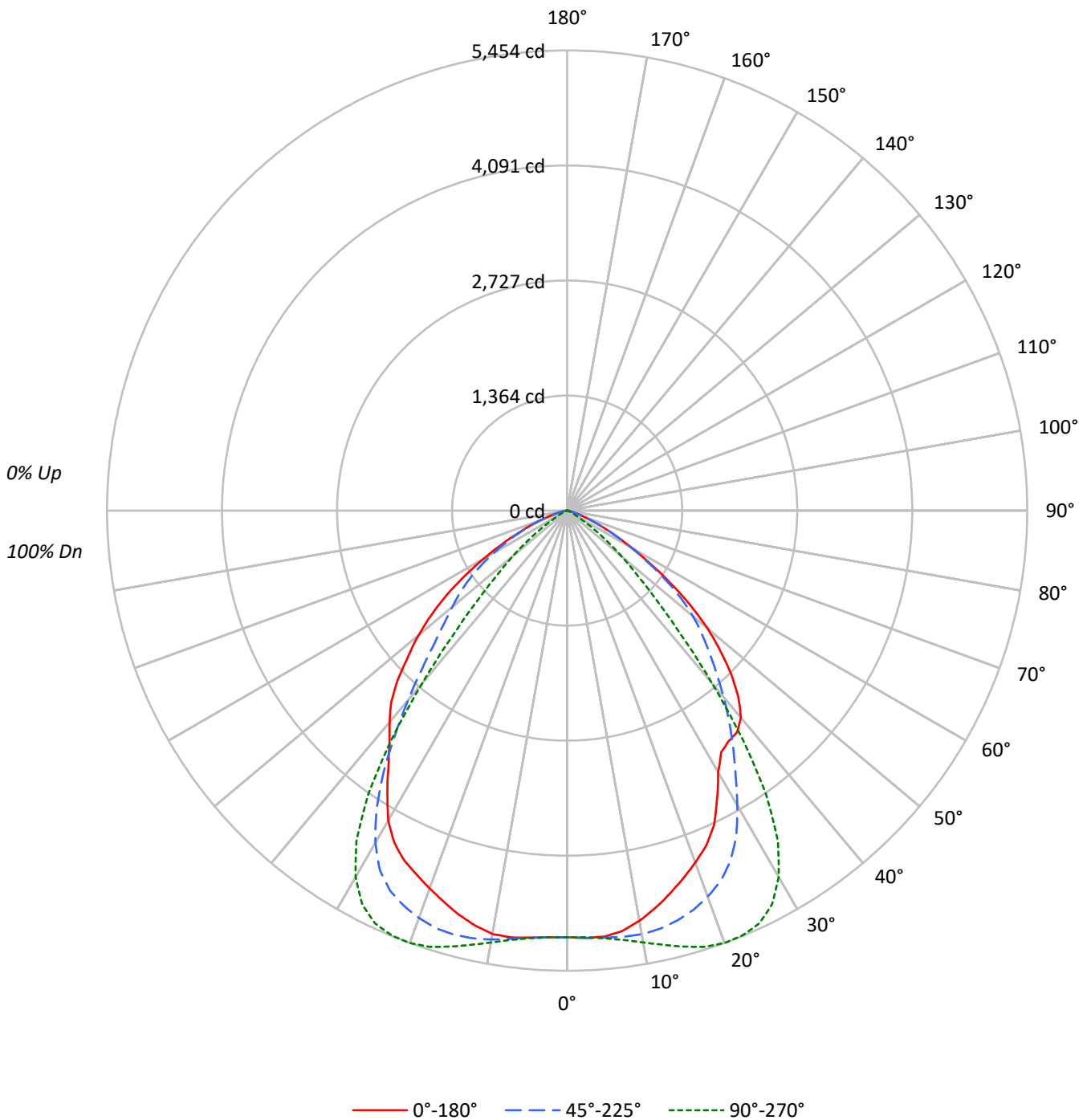
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90					90			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62					62			
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56					56			
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50					50			
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45					45			
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41					41			
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38					38			
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	155936	155936	155936
5°	156866	157448	157281
10°	154559	162713	159519
15°	150043	170778	158267
20°	145687	178981	156345
25°	140094	183567	155619
30°	127493	178532	151004
35°	125596	154699	138933
40°	129010	107293	131711
45°	120100	64847	123846
50°	104173	40048	110352
55°	79943	20924	93652
60°	54463	8443	70683
65°	33878	4305	48762
70°	18393	2669	29771
75°	9591	1275	17585
80°	4297	1438	9536
85°	2866	955	8562



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	486.3	5.0
10°-20°	1440.7	14.8
20°-30°	2197.9	22.5
30°-40°	2293.5	23.5
40°-50°	1722.7	17.7
50°-60°	1059.9	10.9
60°-70°	431.4	4.4
70°-80°	101.6	1.0
80°-90°	14.0	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°	4124.8	42.3
0°-40°	6418.3	65.8
0°-60°	9201.0	94.4
0°-90°	9748.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9748.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5057	5057	5057	5057	5057	
5°	5068	5081	5086	5081	5081	479
15°	4700	5030	5350	5202	4958	1324
25°	4118	4579	5395	4968	4574	1872
35°	3336	3430	4110	3798	3691	2107
45°	2754	2384	1487	2220	2840	2101
55°	1487	1412	389	1412	1742	1337
65°	464	470	59	631	668	484
75°	80	80	11	142	148	97
85°	8	8	3	19	24	11
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°	5056.9	5056.9	5056.9	5056.9	5056.9	5056.9	5056.9	5056.9	5056.9	5056.9	5056.9
2.5°	5070.4	5062.3	5070.4	5070.4	5073.1	5067.7	5070.4	5073.1	5067.7	5067.7	5067.7
5°	5067.7	5062.3	5067.7	5065.0	5070.4	5070.4	5075.8	5075.8	5081.1	5081.1	5089.2
7.5°	5024.7	5014.0	5024.7	5032.8	5038.1	5048.9	5062.3	5073.1	5083.8	5094.5	5107.9
10°	4936.1	4936.1	4944.2	4960.3	4976.4	4995.2	5019.4	5046.2	5073.1	5097.2	5121.3
12.5°	4826.1	4818.1	4834.1	4855.6	4879.8	4909.3	4946.9	4987.2	5030.1	5078.4	5116.0
15°	4700.0	4691.9	4710.7	4732.1	4761.7	4804.7	4850.3	4904.0	4965.7	5030.1	5091.9
17.5°	4571.1	4568.4	4587.2	4616.8	4640.9	4686.5	4745.6	4810.0	4879.8	4965.7	5046.2
20°	4439.6	4436.9	4455.7	4479.9	4512.1	4555.0	4614.1	4689.2	4772.4	4869.1	4963.0
22.5°	4302.7	4305.4	4321.5	4348.3	4375.2	4420.8	4482.5	4557.7	4648.9	4753.6	4858.3
25°	4117.5	4104.1	4125.6	4152.4	4198.0	4235.6	4294.7	4375.2	4469.1	4579.2	4702.7
27.5°	3849.1	3846.4	3865.2	3889.3	3929.6	3975.2	4039.6	4122.9	4222.2	4342.9	4463.7
30°	3580.6	3586.0	3594.1	3618.3	3645.1	3690.7	3755.1	3825.0	3918.9	4034.3	4163.1
32.5°	3398.1	3398.1	3408.9	3425.0	3443.8	3467.9	3513.6	3564.5	3637.0	3717.6	3811.5
35°	3336.4	3325.7	3336.4	3339.1	3341.8	3347.2	3355.2	3371.3	3395.4	3430.4	3465.2
37.5°	3309.6	3301.5	3301.5	3290.8	3277.3	3261.2	3239.8	3215.6	3188.8	3153.9	3127.1
40°	3204.9	3199.5	3194.1	3183.4	3153.9	3121.7	3086.7	3030.4	2968.7	2882.8	2796.9
42.5°	3003.6	2998.2	2995.5	2974.0	2947.2	2909.6	2869.4	2810.3	2732.5	2622.4	2498.9
45°	2754.0	2743.2	2735.2	2716.4	2697.5	2665.4	2627.8	2574.1	2496.2	2383.5	2235.9
47.5°	2464.1	2458.7	2456.0	2448.0	2429.2	2410.3	2386.2	2343.3	2273.5	2166.1	2013.1
50°	2171.5	2160.8	2166.1	2163.5	2155.4	2142.0	2125.8	2096.3	2042.6	1946.0	1806.4
52.5°	1835.9	1835.9	1833.3	1841.3	1844.0	1841.3	1844.0	1811.8	1766.2	1693.7	1575.6
55°	1487.0	1487.0	1495.1	1505.8	1516.5	1519.2	1516.5	1503.1	1470.9	1411.9	1307.2
57.5°	1159.5	1154.2	1170.3	1186.4	1197.2	1207.9	1199.8	1189.1	1170.3	1122.0	1041.4
60°	883.1	883.1	893.8	904.6	915.3	926.0	923.4	920.7	904.6	872.3	808.0
62.5°	649.5	652.2	652.2	660.3	671.0	681.8	689.8	681.8	673.7	652.2	609.3
65°	464.3	461.6	464.3	472.4	480.5	491.2	496.6	493.9	485.8	469.7	437.5
67.5°	311.4	308.7	319.4	322.1	327.5	338.2	335.5	338.2	335.5	322.1	295.3
70°	204.0	198.6	204.0	201.3	209.4	212.1	217.4	220.1	217.4	209.4	201.3
72.5°	126.2	123.5	126.2	128.9	131.5	134.2	139.6	139.6	136.9	131.5	120.8
75°	80.5	72.4	75.1	69.8	75.1	75.1	80.5	83.2	80.5	80.5	75.1
77.5°	48.3	48.3	48.3	48.3	48.3	48.3	48.3	51.0	53.7	48.3	45.6
80°	24.2	24.2	26.9	26.9	26.9	29.6	26.9	26.9	26.9	29.6	21.5
82.5°	18.8	16.1	16.1	16.1	18.8	16.1	16.1	16.1	16.1	16.1	16.1
85°	8.1	10.7	8.1	5.4	8.1	8.1	10.7	8.1	8.1	8.1	10.7
87.5°	2.7	2.7	0.0	0.0	0.0	2.7	0.0	2.7	2.7	5.4	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	5056.9	5056.9	5056.9	5056.9	5056.9	5056.9	5056.9	5056.9	5056.9	5056.9	5056.9
2.5°	5070.4	5065.0	5065.0	5062.3	5067.7	5062.3	5065.0	5062.3	5062.3	5067.7	5062.3
5°	5089.2	5091.9	5086.5	5083.8	5091.9	5091.9	5091.9	5086.5	5086.5	5089.2	5086.5
7.5°	5116.0	5121.3	5124.0	5126.7	5132.1	5134.8	5134.8	5132.1	5129.4	5137.5	5126.7
10°	5145.5	5153.6	5169.7	5177.8	5191.2	5191.2	5196.5	5196.5	5191.2	5196.5	5193.9
12.5°	5134.8	5183.1	5209.9	5228.7	5247.5	5263.6	5269.0	5271.7	5269.0	5279.8	5269.0
15°	5153.6	5193.9	5236.8	5269.0	5303.9	5322.6	5328.0	5349.5	5354.9	5357.6	5341.5
17.5°	5124.0	5196.5	5242.1	5290.5	5341.5	5376.4	5408.6	5422.0	5424.7	5430.0	5408.6
20°	5056.9	5137.5	5207.3	5277.1	5336.1	5389.8	5416.6	5454.2	5443.5	5465.0	5435.4
22.5°	4965.7	5056.9	5145.5	5236.8	5298.5	5363.0	5419.3	5446.1	5459.6	5459.6	5427.3
25°	4820.7	4928.1	5024.7	5118.7	5212.6	5290.5	5354.9	5395.2	5403.2	5400.5	5363.0
27.5°	4595.3	4710.7	4823.4	4930.8	5046.2	5137.5	5212.6	5260.9	5274.4	5274.4	5234.1
30°	4283.9	4407.4	4517.4	4646.2	4764.4	4866.4	4971.1	5014.0	5038.1	5038.1	4992.6
32.5°	3913.5	4018.2	4120.2	4246.3	4375.2	4490.6	4589.9	4648.9	4678.5	4675.8	4635.5
35°	3510.9	3561.9	3639.7	3733.7	3849.1	3956.4	4053.0	4109.5	4160.4	4157.7	4120.2
37.5°	3108.2	3094.8	3102.9	3137.8	3210.2	3285.4	3360.6	3414.3	3457.2	3476.0	3467.9
40°	2713.7	2643.9	2576.8	2552.7	2558.0	2584.8	2625.1	2665.4	2713.7	2737.9	2748.6
42.5°	2359.4	2241.3	2123.1	2034.6	1983.6	1967.5	1986.3	1999.7	2029.2	2064.1	2099.0
45°	2074.9	1916.5	1760.8	1623.9	1538.0	1487.0	1476.3	1487.0	1503.1	1538.0	1583.7
47.5°	1841.3	1656.1	1481.7	1328.6	1202.5	1135.4	1116.6	1111.3	1127.3	1159.5	1221.3
50°	1634.6	1449.4	1256.2	1079.0	947.5	872.3	845.5	834.8	853.5	877.7	934.1
52.5°	1409.2	1226.6	1028.0	856.2	719.4	641.5	612.0	595.9	606.6	638.8	695.2
55°	1164.9	995.8	816.0	638.8	507.3	434.8	399.9	389.2	399.9	434.8	491.2
57.5°	920.7	778.4	628.1	461.6	343.6	271.1	236.2	225.5	255.0	268.4	327.5
60°	719.4	604.0	475.1	338.2	236.2	179.8	144.9	136.9	150.3	174.4	222.8
62.5°	539.5	467.0	365.0	241.6	174.4	115.4	96.6	88.6	96.6	115.4	153.0
65°	391.9	335.5	255.0	177.1	118.1	85.9	64.4	59.0	67.1	80.5	112.8
67.5°	268.4	225.5	177.1	123.5	80.5	53.7	45.6	45.6	48.3	59.0	83.2
70°	174.4	147.6	112.8	80.5	53.7	40.3	34.9	29.6	34.9	43.0	56.4
72.5°	110.1	93.9	72.4	56.4	40.3	29.6	24.2	21.5	26.9	32.2	43.0
75°	67.1	51.0	37.6	29.6	21.5	21.5	21.5	10.7	13.4	21.5	26.9
77.5°	40.3	34.9	29.6	24.2	18.8	10.7	10.7	10.7	13.4	16.1	24.2
80°	21.5	18.8	13.4	13.4	10.7	8.1	10.7	8.1	5.4	13.4	16.1
82.5°	13.4	10.7	10.7	10.7	13.4	5.4	8.1	5.4	8.1	10.7	8.1
85°	8.1	8.1	8.1	5.4	13.4	5.4	5.4	2.7	2.7	5.4	5.4
87.5°	0.0	2.7	2.7	0.0	2.7	0.0	2.7	2.7	2.7	2.7	2.7
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°	5056.9	5056.9	5056.9	5056.9	5056.9	5056.9	5056.9	5056.9	5056.9	5056.9	5056.9
2.5°	5065.0	5062.3	5065.0	5062.3	5062.3	5062.3	5065.0	5065.0	5062.3	5062.3	5067.7
5°	5086.5	5086.5	5086.5	5083.8	5081.1	5081.1	5086.5	5086.5	5078.4	5086.5	5086.5
7.5°	5132.1	5124.0	5132.1	5121.3	5116.0	5118.7	5121.3	5116.0	5110.6	5113.3	5113.3
10°	5191.2	5183.1	5183.1	5175.1	5167.0	5161.6	5156.3	5142.8	5129.4	5126.7	5116.0
12.5°	5260.9	5247.5	5239.5	5223.3	5209.9	5191.2	5175.1	5153.6	5126.7	5107.9	5089.2
15°	5330.7	5309.2	5290.5	5263.6	5234.1	5201.9	5167.0	5132.1	5089.2	5051.6	5019.4
17.5°	5387.1	5357.6	5322.6	5279.8	5236.8	5188.5	5137.5	5086.5	5024.7	4976.4	4938.8
20°	5405.9	5363.0	5317.3	5260.9	5204.6	5137.5	5073.1	5006.0	4936.1	4885.2	4842.2
22.5°	5381.8	5330.7	5274.4	5215.3	5140.1	5067.7	4992.6	4914.7	4852.9	4783.2	4742.9
25°	5314.6	5252.9	5191.2	5121.3	5048.9	4968.4	4887.9	4807.3	4732.1	4694.6	4643.6
27.5°	5177.8	5110.6	5043.5	4971.1	4887.9	4807.3	4724.1	4646.2	4581.9	4530.8	4501.4
30°	4936.1	4858.3	4780.5	4702.7	4630.2	4546.9	4469.1	4404.7	4340.3	4300.0	4270.5
32.5°	4565.7	4496.0	4418.1	4342.9	4275.9	4206.1	4141.6	4085.3	4039.6	4012.8	3991.3
35°	4066.5	3996.7	3937.7	3884.0	3827.6	3798.1	3757.8	3725.6	3706.8	3696.1	3693.4
37.5°	3438.4	3398.1	3379.3	3368.6	3357.9	3349.8	3355.2	3368.6	3379.3	3398.1	3419.6
40°	2767.4	2802.2	2813.0	2850.6	2885.4	2931.1	2982.1	3041.2	3089.4	3151.2	3194.1
42.5°	2155.4	2219.8	2294.9	2375.5	2461.4	2544.6	2646.6	2740.5	2826.4	2904.2	2971.4
45°	1656.1	1755.4	1868.2	1983.6	2099.0	2219.8	2343.3	2458.7	2560.7	2643.9	2713.7
47.5°	1291.1	1401.1	1546.1	1688.4	1827.9	1970.2	2107.0	2227.8	2313.7	2394.2	2456.0
50°	1022.7	1148.8	1307.2	1470.9	1623.9	1774.2	1919.1	2031.9	2117.8	2182.2	2227.8
52.5°	791.8	942.1	1103.2	1275.0	1438.7	1602.4	1736.6	1841.3	1911.1	1967.5	2002.4
55°	590.5	738.1	910.0	1087.1	1253.5	1411.9	1538.0	1629.3	1691.0	1723.2	1742.0
57.5°	426.8	561.0	732.8	910.0	1060.2	1210.6	1312.6	1395.8	1430.6	1449.4	1457.5
60°	311.4	434.8	587.8	740.8	883.1	1003.9	1092.5	1148.8	1175.7	1186.4	1183.7
62.5°	228.2	335.5	467.0	595.9	711.3	810.6	880.4	918.0	931.4	936.7	928.7
65°	174.4	257.7	370.4	469.7	558.3	630.8	681.8	706.0	714.0	711.3	706.0
67.5°	128.9	193.3	276.5	351.6	416.1	472.4	499.3	520.8	526.1	518.1	510.0
70°	91.3	142.3	201.3	252.3	300.6	332.8	362.3	365.0	365.0	362.3	357.0
72.5°	64.4	99.3	136.9	171.8	201.3	225.5	236.2	244.3	241.6	238.9	233.5
75°	43.0	61.7	99.3	107.4	134.2	142.3	153.0	153.0	155.7	147.6	147.6
77.5°	26.9	43.0	59.0	69.8	80.5	91.3	96.6	96.6	99.3	96.6	96.6
80°	16.1	26.9	32.2	48.3	48.3	56.4	59.0	61.7	56.4	64.4	56.4
82.5°	10.7	16.1	24.2	24.2	29.6	34.9	34.9	37.6	37.6	34.9	34.9
85°	8.1	10.7	13.4	16.1	16.1	18.8	16.1	16.1	18.8	21.5	18.8
87.5°	2.7	5.4	2.7	5.4	5.4	10.7	8.1	8.1	8.1	10.7	10.7
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: P248393

CATALOG NUMBER: LSR8B100D010 EC8B100935 8LBDWOLI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	5056.9	5056.9	5056.9	5056.9
2.5°	5062.3	5065.0	5062.3	5062.3
5°	5086.5	5083.8	5086.5	5081.1
7.5°	5105.3	5105.3	5102.6	5102.6
10°	5105.3	5094.5	5094.5	5094.5
12.5°	5065.0	5051.6	5043.5	5038.1
15°	4995.2	4971.1	4960.3	4957.6
17.5°	4904.0	4882.5	4869.1	4861.0
20°	4799.3	4777.8	4761.7	4764.4
22.5°	4708.0	4683.9	4673.1	4667.7
25°	4616.8	4587.2	4579.2	4573.8
27.5°	4469.1	4453.0	4444.9	4436.9
30°	4243.6	4235.6	4222.2	4240.9
32.5°	3983.3	3969.8	3959.1	3967.2
35°	3696.1	3688.0	3696.1	3690.7
37.5°	3433.1	3441.1	3451.8	3457.2
40°	3226.4	3255.9	3266.6	3272.0
42.5°	3019.7	3054.6	3076.0	3089.4
45°	2764.7	2799.5	2823.7	2839.9
47.5°	2501.6	2531.2	2555.3	2552.7
50°	2262.8	2278.9	2289.6	2300.3
52.5°	2021.1	2021.1	2023.8	2023.8
55°	1747.4	1742.0	1739.3	1742.0
57.5°	1446.7	1441.4	1438.7	1430.6
60°	1173.0	1156.9	1146.1	1146.1
62.5°	918.0	899.2	891.2	888.5
65°	689.8	687.1	671.0	668.3
67.5°	499.3	488.5	477.8	480.5
70°	351.6	335.5	335.5	330.2
72.5°	228.2	220.1	217.4	217.4
75°	142.3	142.3	136.9	147.6
77.5°	93.9	93.9	91.3	93.9
80°	56.4	56.4	56.4	53.7
82.5°	34.9	37.6	34.9	34.9
85°	18.8	21.5	16.1	24.2
87.5°	10.7	13.4	10.7	13.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)