

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: P249779

Luminaire Tested: **LSR8B100D010 EC8B100930 8LBSWOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249779
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13955)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100930 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9494.9 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

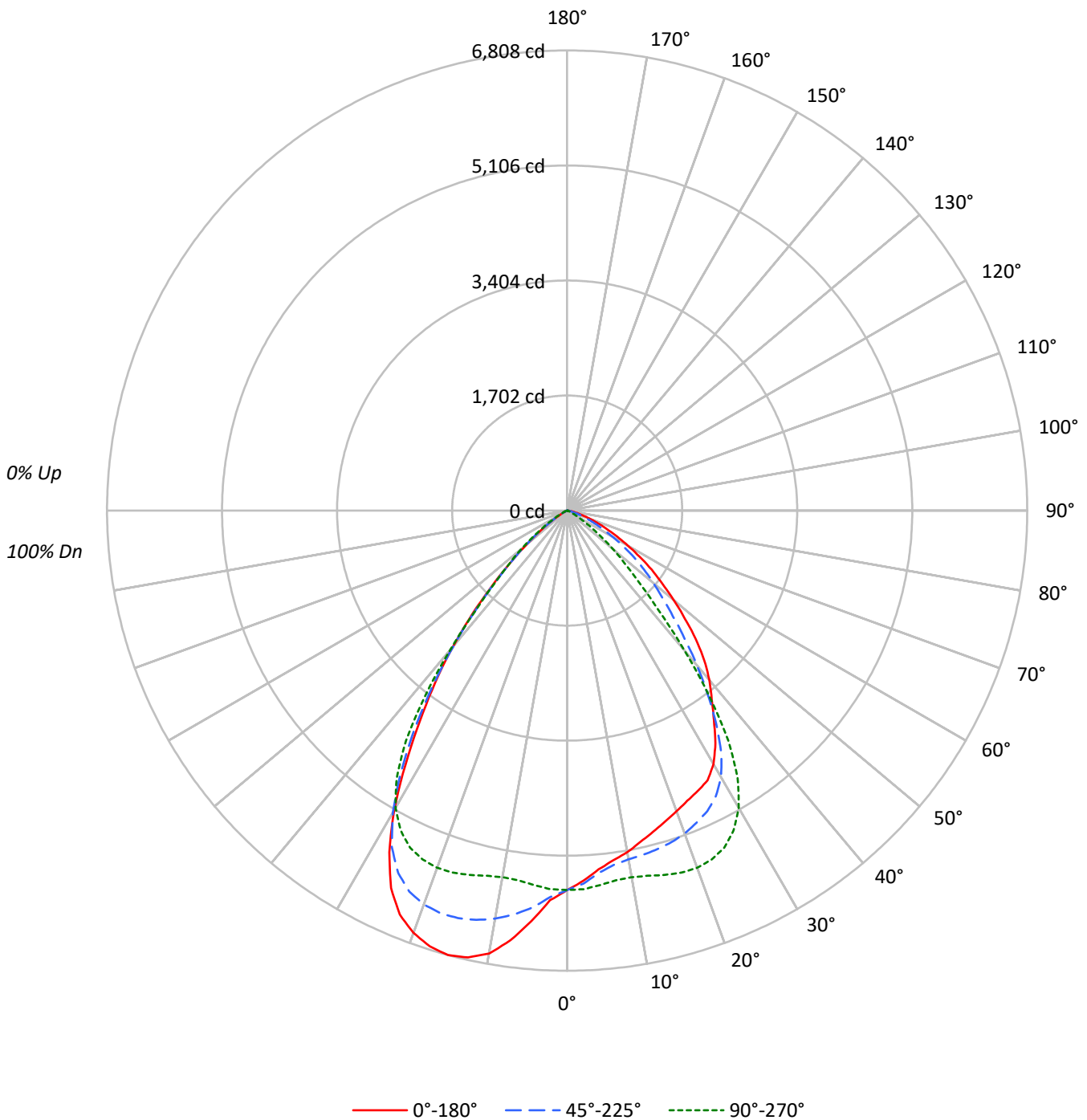
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100			
1	112	109	106	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91	91	91	91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82	82	82	82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73	73	73	73			
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66	66	66	66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60	60	60	60			
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54	54	54	54			
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49	49	49	49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45	45	45	45			
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42	42	42	42			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38	38	38	38			

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°	539.7	5.7
10°-20°	1615.3	17.0
20°-30°	2473.7	26.1
30°-40°	2425.1	25.5
40°-50°	1460.4	15.4
50°-60°	672.2	7.1
60°-70°	236.1	2.5
70°-80°	61.8	0.7
80°-90°	10.5	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°	4628.8	48.8
0°-40°	7053.9	74.3
0°-60°	9186.5	96.8
0°-90°	9494.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9494.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5614	5614	5614	5614	5614	
5°	5328	5378	5562	5895	6097	503
15°	4919	5184	5580	6241	6808	1390
25°	4575	4906	5502	5916	6163	2107
35°	3786	3838	4156	3917	3791	2371
45°	2689	2214	1501	1511	1550	2062
55°	1527	1209	430	338	325	1362
65°	648	449	68	34	37	660
75°	168	97	5	0	0	204
85°	26	13	3	0	0	36
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°	5614.3	5614.3	5614.3	5614.3	5614.3	5614.3	5614.3	5614.3	5614.3	5614.3	5614.3
2.5°	5483.1	5488.4	5488.4	5488.4	5499.0	5501.6	5499.0	5501.6	5506.8	5525.2	5533.0
5°	5328.3	5320.5	5325.8	5323.1	5336.3	5344.1	5338.9	5346.7	5365.1	5378.3	5391.3
7.5°	5218.3	5218.3	5218.3	5223.4	5231.3	5247.1	5244.5	5249.6	5268.0	5286.4	5304.7
10°	5131.6	5129.0	5129.0	5142.1	5152.6	5170.9	5176.2	5192.0	5215.6	5239.2	5260.2
12.5°	5018.8	5021.5	5034.5	5047.8	5071.3	5100.1	5115.9	5137.0	5173.6	5213.0	5236.6
15°	4919.2	4921.8	4932.3	4958.4	4987.3	5021.5	5055.5	5089.7	5134.2	5184.1	5226.1
17.5°	4822.1	4824.7	4832.5	4861.4	4898.2	4942.7	4982.1	5026.7	5084.4	5142.1	5194.6
20°	4732.9	4730.3	4743.3	4769.5	4816.8	4858.8	4898.2	4950.7	5013.6	5084.4	5144.7
22.5°	4646.2	4646.2	4659.4	4685.7	4727.7	4769.5	4811.6	4866.6	4929.6	4997.9	5068.7
25°	4575.4	4572.8	4591.2	4604.3	4635.8	4677.8	4722.3	4766.9	4829.9	4906.1	4974.2
27.5°	4499.4	4496.8	4499.4	4515.2	4544.0	4575.4	4609.6	4648.9	4701.4	4764.4	4829.9
30°	4331.4	4334.0	4334.0	4347.2	4362.9	4397.0	4415.4	4454.7	4501.9	4554.4	4612.2
32.5°	4082.2	4084.8	4084.8	4090.1	4103.2	4118.9	4134.7	4163.5	4200.3	4244.9	4297.4
35°	3785.8	3785.8	3783.2	3785.8	3793.7	3793.7	3806.7	3793.7	3812.1	3838.3	3877.5
37.5°	3512.9	3507.6	3502.5	3497.2	3489.2	3476.2	3457.8	3426.3	3418.4	3408.0	3410.5
40°	3271.5	3268.9	3253.3	3240.0	3213.8	3182.4	3137.8	3082.8	3038.1	2985.7	2941.1
42.5°	3003.9	3001.3	2988.2	2964.6	2935.7	2888.5	2817.7	2744.3	2655.1	2576.4	2495.0
45°	2689.1	2697.0	2678.6	2652.4	2618.2	2573.6	2495.0	2405.8	2316.5	2214.3	2111.9
47.5°	2361.2	2358.6	2345.5	2329.7	2300.9	2256.2	2203.8	2106.7	2012.2	1917.8	1812.9
50°	2056.8	2046.4	2041.0	2025.4	2007.0	1970.3	1915.1	1836.4	1752.6	1663.3	1566.3
52.5°	1768.3	1768.3	1755.1	1744.6	1728.9	1700.0	1652.8	1589.9	1519.1	1435.0	1332.8
55°	1526.9	1521.6	1508.5	1495.4	1479.6	1461.2	1419.4	1366.9	1290.7	1209.4	1120.2
57.5°	1269.9	1267.1	1261.9	1246.2	1238.3	1219.9	1172.8	1120.2	1054.7	983.9	910.4
60°	1038.9	1028.5	1017.9	1007.4	994.3	975.9	944.4	899.8	844.8	781.8	708.4
62.5°	831.7	847.4	816.0	816.0	789.7	773.9	745.1	718.9	661.1	603.4	540.4
65°	648.1	648.1	634.8	624.4	608.6	590.2	561.4	535.2	493.1	448.6	404.0
67.5°	495.9	493.1	480.1	469.6	456.5	445.9	425.1	393.5	362.1	325.3	288.5
70°	364.7	362.1	359.4	341.0	330.6	317.5	301.7	280.8	257.2	230.9	196.7
72.5°	262.3	262.3	254.6	246.6	236.2	225.5	210.0	196.7	175.8	157.5	133.8
75°	167.9	165.3	165.3	152.1	152.1	136.4	125.9	118.0	107.5	97.1	76.1
77.5°	120.7	118.0	115.5	110.2	104.9	99.7	91.8	81.3	73.4	63.0	55.0
80°	81.3	76.1	73.4	73.4	65.6	63.0	65.6	49.9	47.2	39.3	34.1
82.5°	49.9	49.9	47.2	47.2	44.6	42.0	34.1	34.1	31.5	28.8	23.7
85°	26.2	34.1	23.7	26.2	23.7	26.2	23.7	18.4	15.8	13.1	13.1
87.5°	15.8	10.4	10.4	15.8	13.1	10.4	10.4	10.4	7.8	5.3	5.3
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: P249779

CATALOG NUMBER: LSR8B100D010 EC8B100930 8LBSWOLI

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	5614.3	5614.3	5614.3	5614.3	5614.3	5614.3	5614.3	5614.3	5614.3	5614.3	5614.3
2.5°	5527.9	5546.1	5543.5	5567.1	5575.1	5593.3	5593.3	5606.5	5614.3	5632.7	5648.5
5°	5396.6	5425.4	5433.4	5462.2	5485.8	5514.6	5533.0	5561.8	5588.1	5627.5	5664.2
7.5°	5315.3	5338.9	5354.7	5388.8	5415.0	5446.4	5478.0	5517.2	5554.0	5601.3	5653.8
10°	5275.9	5307.5	5331.0	5365.1	5396.6	5430.8	5462.2	5506.8	5548.8	5609.1	5666.8
12.5°	5265.4	5302.1	5331.0	5378.3	5409.7	5446.4	5483.1	5533.0	5577.6	5640.5	5706.2
15°	5265.4	5315.3	5354.7	5407.1	5443.8	5491.0	5530.5	5580.2	5630.1	5695.7	5758.6
17.5°	5254.9	5315.3	5365.1	5425.4	5472.6	5519.9	5569.7	5617.0	5669.5	5732.5	5803.2
20°	5213.0	5289.1	5349.3	5420.1	5470.0	5522.5	5572.5	5624.8	5680.0	5745.6	5805.9
22.5°	5139.6	5228.7	5296.9	5373.0	5430.8	5483.1	5533.0	5585.5	5645.9	5708.8	5771.8
25°	5042.5	5126.3	5199.9	5278.5	5336.3	5393.9	5441.2	5501.6	5556.7	5617.0	5666.8
27.5°	4895.5	4984.6	5055.5	5137.0	5189.3	5244.5	5283.8	5333.7	5386.2	5436.0	5475.4
30°	4675.1	4756.5	4829.9	4903.4	4955.8	4995.3	5037.1	5076.6	5110.6	5144.7	5178.8
32.5°	4352.4	4425.9	4496.8	4564.9	4607.0	4641.1	4672.4	4696.1	4714.5	4732.9	4735.4
35°	3909.2	3969.3	4014.0	4074.4	4113.7	4145.1	4145.1	4155.7	4153.1	4145.1	4137.3
37.5°	3413.2	3436.8	3455.1	3478.8	3481.4	3481.4	3465.7	3452.6	3431.6	3426.3	3410.5
40°	2896.4	2864.9	2841.3	2809.8	2791.4	2752.1	2718.0	2694.3	2660.2	2655.1	2649.8
42.5°	2405.8	2332.4	2266.8	2211.6	2148.7	2093.6	2043.8	2007.0	1980.8	1978.1	1980.8
45°	2007.0	1923.1	1826.0	1749.9	1679.0	1610.9	1545.3	1500.7	1477.0	1471.8	1477.0
47.5°	1705.4	1608.3	1513.8	1427.1	1351.1	1275.0	1209.4	1149.1	1120.2	1112.4	1109.8
50°	1466.6	1366.9	1267.1	1177.9	1094.0	1017.9	936.6	878.9	842.2	829.0	818.6
52.5°	1233.1	1143.9	1041.5	949.7	865.7	776.5	692.7	627.0	590.2	574.6	564.0
55°	1028.5	939.3	844.8	755.6	666.4	577.2	493.1	430.2	390.9	372.5	359.4
57.5°	821.1	737.2	655.9	566.7	493.1	406.7	322.6	267.6	233.5	212.5	202.0
60°	634.8	569.4	498.5	425.1	354.2	283.4	215.1	162.7	136.4	120.7	107.5
62.5°	480.1	425.1	377.8	314.8	259.7	199.3	147.0	104.9	81.3	68.3	63.0
65°	346.3	304.4	262.3	223.0	183.7	139.1	99.7	68.3	47.2	39.3	36.8
67.5°	246.6	212.5	181.0	154.7	125.9	99.7	70.8	47.2	36.8	31.5	28.8
70°	173.1	147.0	125.9	102.3	83.9	65.6	55.0	34.1	21.0	23.7	18.4
72.5°	115.5	97.1	86.7	70.8	57.6	47.2	34.1	23.7	23.7	18.4	15.8
75°	63.0	57.6	44.6	34.1	28.8	26.2	10.4	5.3	2.6	7.8	2.6
77.5°	44.6	39.3	34.1	28.8	23.7	18.4	10.4	10.4	7.8	10.4	5.3
80°	28.8	23.7	21.0	21.0	13.1	7.8	5.3	5.3	7.8	2.6	2.6
82.5°	18.4	15.8	13.1	13.1	13.1	7.8	7.8	7.8	7.8	5.3	5.3
85°	10.4	7.8	5.3	5.3	2.6	5.3	0.0	2.6	2.6	0.0	0.0
87.5°	5.3	2.6	2.6	2.6	2.6	0.0	0.0	2.6	0.0	2.6	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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	5614.3	5614.3	5614.3	5614.3	5614.3	5614.3	5614.3	5614.3	5614.3	5614.3	5614.3
2.5°	5658.9	5669.5	5682.6	5693.1	5716.8	5721.9	5732.5	5743.0	5750.8	5758.6	5761.3
5°	5695.7	5735.0	5771.8	5811.0	5860.9	5895.1	5934.5	5968.5	6002.6	6031.5	6052.4
7.5°	5706.2	5766.5	5821.7	5889.8	5963.3	6026.3	6091.9	6157.4	6225.7	6278.2	6322.8
10°	5727.2	5800.6	5871.5	5952.7	6047.2	6131.2	6212.5	6299.1	6385.7	6459.1	6524.8
12.5°	5763.8	5845.2	5921.3	6010.6	6107.7	6202.0	6291.2	6388.2	6480.2	6561.4	6635.0
15°	5824.3	5900.3	5973.8	6057.8	6154.9	6241.4	6330.6	6425.0	6516.9	6600.8	6669.1
17.5°	5863.6	5934.5	6007.9	6084.0	6165.3	6244.0	6327.9	6411.9	6495.9	6572.0	6635.0
20°	5863.6	5931.8	5986.9	6055.2	6131.2	6199.4	6267.6	6341.0	6414.5	6477.5	6537.8
22.5°	5816.4	5881.9	5923.9	5976.4	6042.0	6099.7	6136.5	6217.7	6272.9	6327.9	6372.5
25°	5706.2	5753.4	5787.5	5824.3	5876.7	5916.1	5947.6	5994.8	6049.8	6070.9	6102.3
27.5°	5506.8	5540.9	5559.3	5567.1	5593.3	5614.3	5619.6	5640.5	5664.2	5669.5	5682.6
30°	5192.0	5194.6	5186.8	5184.1	5170.9	5155.3	5152.6	5150.0	5139.6	5129.0	5131.6
32.5°	4717.1	4704.1	4672.4	4638.5	4604.3	4567.6	4546.6	4520.3	4504.5	4488.9	4470.5
35°	4103.2	4071.7	4027.2	3985.2	3945.8	3916.9	3869.7	3853.9	3838.3	3817.2	3812.1
37.5°	3381.7	3363.3	3321.3	3289.9	3268.9	3255.8	3232.2	3216.5	3216.5	3208.6	3203.4
40°	2636.6	2631.4	2615.6	2623.6	2613.1	2618.2	2615.6	2610.4	2623.6	2623.6	2628.9
42.5°	1978.1	1980.8	1988.7	1993.8	2009.6	2012.2	2025.4	2025.4	2033.3	2041.0	2046.4
45°	1471.8	1482.3	1482.3	1492.8	1508.5	1511.2	1516.4	1519.1	1524.2	1537.5	1542.6
47.5°	1104.5	1107.1	1107.1	1109.8	1114.9	1120.2	1117.6	1120.2	1128.2	1122.8	1128.2
50°	816.0	818.6	810.7	802.7	810.7	810.7	808.0	800.2	808.0	797.6	802.7
52.5°	556.2	553.5	545.7	548.4	543.0	540.4	540.4	535.2	535.2	535.2	524.7
55°	351.7	351.7	346.3	346.3	343.7	338.4	335.9	333.2	330.6	328.0	328.0
57.5°	196.7	199.3	191.6	188.9	191.6	188.9	183.7	183.7	183.7	175.8	181.0
60°	107.5	104.9	102.3	99.7	97.1	99.7	99.7	94.5	94.5	94.5	97.1
62.5°	57.6	57.6	55.0	55.0	52.5	52.5	57.6	49.9	52.5	49.9	52.5
65°	31.5	39.3	28.8	28.8	36.8	34.1	31.5	31.5	34.1	28.8	31.5
67.5°	34.1	23.7	21.0	23.7	21.0	21.0	21.0	26.2	23.7	18.4	23.7
70°	15.8	18.4	18.4	13.1	21.0	10.4	18.4	10.4	15.8	13.1	15.8
72.5°	15.8	15.8	15.8	10.4	15.8	10.4	13.1	13.1	10.4	10.4	15.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	5.3	5.3	2.6	2.6	2.6	2.6	5.3	5.3	5.3	0.0	2.6
80°	5.3	5.3	0.0	2.6	0.0	0.0	2.6	0.0	2.6	0.0	5.3
82.5°	2.6	5.3	2.6	2.6	5.3	5.3	5.3	2.6	2.6	2.6	2.6
85°	0.0	2.6	0.0	0.0	0.0	0.0	5.3	0.0	0.0	0.0	2.6
87.5°	0.0	2.6	0.0	0.0	0.0	0.0	2.6	2.6	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: P249779

CATALOG NUMBER: LSR8B100D010 EC8B100930 8LBSWOLI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	5614.3	5614.3	5614.3	5614.3
2.5°	5763.8	5766.5	5771.8	5769.2
5°	6068.2	6089.3	6099.7	6097.1
7.5°	6354.2	6390.9	6411.9	6411.9
10°	6574.6	6616.6	6648.0	6653.2
12.5°	6692.6	6739.9	6781.9	6771.3
15°	6726.7	6774.0	6815.9	6808.1
17.5°	6687.4	6734.6	6766.1	6760.9
20°	6579.8	6619.2	6650.7	6648.0
22.5°	6411.9	6446.1	6472.3	6469.6
25°	6128.6	6152.3	6173.1	6162.7
27.5°	5693.1	5701.0	5714.0	5698.4
30°	5113.3	5118.5	5123.8	5121.2
32.5°	4462.7	4460.0	4454.7	4449.5
35°	3804.1	3804.1	3806.7	3791.0
37.5°	3205.9	3203.4	3211.2	3203.4
40°	2634.0	2631.4	2641.9	2628.9
42.5°	2054.2	2062.1	2064.7	2064.7
45°	1545.3	1547.9	1550.5	1550.5
47.5°	1128.2	1130.8	1143.9	1128.2
50°	797.6	800.2	802.7	797.6
52.5°	527.3	530.0	527.3	519.5
55°	322.6	325.3	325.3	325.3
57.5°	173.1	175.8	175.8	173.1
60°	94.5	91.8	94.5	89.2
62.5°	49.9	55.0	52.5	47.2
65°	31.5	31.5	31.5	36.8
67.5°	26.2	21.0	23.7	18.4
70°	15.8	18.4	18.4	13.1
72.5°	13.1	13.1	13.1	15.8
75°	0.0	0.0	0.0	0.0
77.5°	5.3	5.3	5.3	2.6
80°	2.6	0.0	2.6	0.0
82.5°	2.6	2.6	5.3	2.6
85°	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)