

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: P250229

Luminaire Tested: **LSR8B150D010 EC8B150840 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250229
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: LSR8B150D010 EC8B150840 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: 16458.0 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

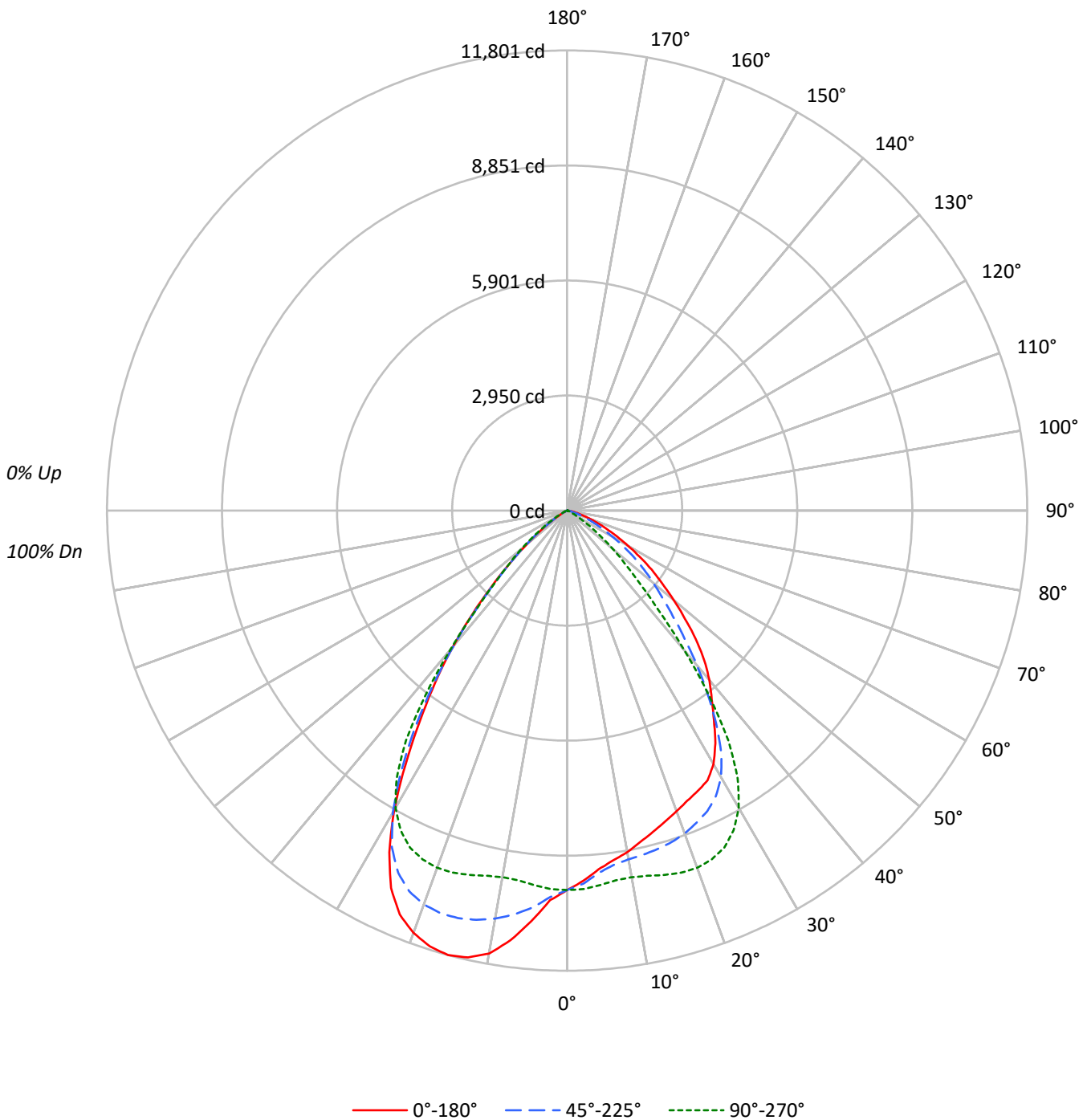
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P250229

CATALOG NUMBER: LSR8B150D010 EC8B150840 8LBSW0WH

Luminous Intensity Polar Plot





TEST NUMBER: P250229

CATALOG NUMBER: LSR8B150D010 EC8B150840 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	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82					82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73					73			
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66					66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60					60			
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54					54			
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49					49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45					45			
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42					42			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38					38			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	300090	300090	300090
5°	285892	298419	327138
10°	278520	298879	361106
15°	272204	308786	376727
20°	269207	319943	378141
25°	269838	324461	363449
30°	267335	313321	316074
35°	247025	271159	247364
40°	228272	187998	183425
45°	203267	113436	117200
50°	171033	73087	66322
55°	142290	40090	30321
60°	111066	17386	9535
65°	81962	8632	4641
70°	56990	5328	2038
75°	34682	1096	0
80°	25021	1634	0
85°	16098	1592	0



TEST NUMBER: P250229

CATALOG NUMBER: LSR8B150D010 EC8B150840 8LBSW0WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	935.5	5.7
10°-20°	2800.0	17.0
20°-30°	4287.9	26.1
30°-40°	4203.5	25.5
40°-50°	2531.4	15.4
50°-60°	1165.1	7.1
60°-70°	409.3	2.5
70°-80°	107.1	0.7
80°-90°	18.2	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°	8023.4	48.8
0°-40°	12226.9	74.3
0°-60°	15923.4	96.8
0°-90°	16458.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16458.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9732	9732	9732	9732	9732	
5°	9236	9322	9641	10218	10568	872
15°	8527	8986	9672	10819	11801	2409
25°	7931	8504	9536	10255	10682	3653
35°	6562	6653	7203	6789	6571	4110
45°	4661	3838	2601	2619	2688	3574
55°	2647	2096	746	587	564	2362
65°	1123	778	118	59	64	1144
75°	291	168	9	0	0	353
85°	46	23	4	0	0	62
90°	0	0	0	0	0	



TEST NUMBER: P250229

CATALOG NUMBER: LSR8B150D010 EC8B150840 8LBSW0WH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	9731.7	9731.7	9731.7	9731.7	9731.7	9731.7	9731.7	9731.7	9731.7	9731.7	9731.7
2.5°	9504.2	9513.4	9513.4	9513.4	9531.6	9536.2	9531.6	9536.2	9545.2	9577.0	9590.7
5°	9236.0	9222.3	9231.5	9226.8	9249.7	9263.3	9254.2	9267.8	9299.6	9322.5	9345.1
7.5°	9045.1	9045.1	9045.1	9054.1	9067.7	9095.1	9090.6	9099.5	9131.4	9163.2	9195.0
10°	8895.0	8890.5	8890.5	8913.1	8931.3	8963.1	8972.3	8999.6	9040.4	9081.4	9117.7
12.5°	8699.4	8704.0	8726.7	8749.5	8790.3	8840.3	8867.6	8904.1	8967.8	9035.9	9076.9
15°	8526.6	8531.1	8549.4	8594.7	8644.9	8704.0	8763.0	8822.1	8899.5	8985.9	9058.7
17.5°	8358.3	8362.8	8376.5	8426.6	8490.3	8567.6	8635.7	8713.0	8813.2	8913.1	9004.1
20°	8203.7	8199.2	8221.9	8267.3	8349.3	8422.0	8490.3	8581.2	8690.4	8813.2	8917.6
22.5°	8053.6	8053.6	8076.4	8121.9	8194.7	8267.3	8340.2	8435.6	8544.7	8663.0	8785.8
25°	7930.8	7926.3	7958.1	7981.0	8035.4	8108.2	8185.5	8262.9	8372.0	8503.9	8622.1
27.5°	7799.0	7794.5	7799.0	7826.3	7876.3	7930.8	7989.9	8058.3	8149.2	8258.4	8372.0
30°	7508.0	7512.4	7512.4	7535.3	7562.6	7621.6	7653.4	7721.7	7803.5	7894.5	7994.6
32.5°	7075.9	7080.4	7080.4	7089.6	7112.3	7139.6	7166.9	7216.9	7280.5	7357.8	7448.8
35°	6562.1	6562.1	6557.5	6562.1	6575.8	6575.8	6598.5	6575.8	6607.6	6653.1	6721.2
37.5°	6089.1	6080.0	6071.0	6061.8	6048.1	6025.5	5993.7	5939.0	5925.4	5907.2	5911.7
40°	5670.8	5666.3	5639.0	5616.1	5570.6	5516.2	5438.9	5343.4	5266.1	5175.1	5097.8
42.5°	5207.0	5202.3	5179.6	5138.6	5088.7	5006.9	4884.1	4756.8	4602.2	4465.7	4324.8
45°	4661.1	4674.8	4643.0	4597.5	4538.4	4461.0	4324.8	4170.0	4015.4	3838.1	3660.7
47.5°	4092.7	4088.2	4065.5	4038.2	3988.2	3910.9	3820.0	3651.7	3487.9	3324.3	3142.4
50°	3565.2	3547.1	3537.9	3510.7	3478.9	3415.3	3319.6	3183.2	3037.7	2883.1	2714.9
52.5°	3065.1	3065.1	3042.2	3024.1	2996.7	2946.8	2865.0	2755.8	2633.1	2487.4	2310.2
55°	2646.7	2637.5	2614.9	2592.1	2564.7	2532.9	2460.3	2369.3	2237.4	2096.4	1941.8
57.5°	2201.0	2196.4	2187.4	2160.1	2146.4	2114.6	2032.8	1941.8	1828.2	1705.4	1577.9
60°	1800.9	1782.7	1764.4	1746.2	1723.5	1691.7	1637.1	1559.8	1464.3	1355.2	1227.9
62.5°	1441.7	1468.8	1414.3	1414.3	1368.8	1341.5	1291.5	1246.1	1145.9	1046.0	936.8
65°	1123.3	1123.3	1100.4	1082.3	1054.9	1023.1	973.1	927.7	854.8	777.5	700.2
67.5°	859.5	854.8	832.2	814.0	791.2	773.1	736.7	682.1	627.6	564.0	500.1
70°	632.1	627.6	622.9	591.1	573.0	550.3	523.0	486.7	445.7	400.2	341.0
72.5°	454.7	454.7	441.2	427.5	409.4	391.0	363.9	341.0	304.7	272.9	231.9
75°	291.1	286.6	286.6	263.7	263.7	236.4	218.3	204.6	186.4	168.3	132.0
77.5°	209.3	204.6	200.1	190.9	181.9	172.8	159.1	140.9	127.3	109.1	95.5
80°	140.9	132.0	127.3	127.3	113.6	109.1	113.6	86.5	81.8	68.1	59.1
82.5°	86.5	86.5	81.8	81.8	77.3	72.8	59.1	59.1	54.7	50.0	41.0
85°	45.5	59.1	41.0	45.5	41.0	45.5	41.0	31.8	27.3	22.6	22.6
87.5°	27.3	18.2	18.2	27.3	22.6	18.2	18.2	18.2	13.7	9.2	9.2
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: P250229

CATALOG NUMBER: LSR8B150D010 EC8B150840 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	9731.7	9731.7	9731.7	9731.7	9731.7	9731.7	9731.7	9731.7	9731.7	9731.7	9731.7
2.5°	9581.7	9613.5	9608.9	9649.9	9663.5	9695.3	9695.3	9718.0	9731.7	9763.5	9790.8
5°	9354.3	9404.3	9417.9	9467.9	9508.9	9558.9	9590.7	9640.7	9686.2	9754.5	9818.1
7.5°	9213.4	9254.2	9281.5	9340.6	9386.1	9440.6	9495.2	9563.4	9627.0	9709.0	9800.0
10°	9145.0	9199.7	9240.5	9299.6	9354.3	9413.4	9467.9	9545.2	9618.0	9722.7	9822.6
12.5°	9126.9	9190.5	9240.5	9322.5	9376.9	9440.6	9504.2	9590.7	9668.0	9777.1	9890.9
15°	9126.9	9213.4	9281.5	9372.5	9436.1	9517.9	9586.2	9672.5	9759.0	9872.6	9981.7
17.5°	9108.7	9213.4	9299.6	9404.3	9486.1	9568.1	9654.3	9736.3	9827.1	9936.4	10059.0
20°	9035.9	9167.9	9272.3	9395.1	9481.6	9572.5	9659.0	9749.8	9845.5	9959.1	10063.7
22.5°	8908.6	9063.2	9181.5	9313.3	9413.4	9504.2	9590.7	9681.7	9786.3	9895.4	10004.6
25°	8740.3	8885.8	9013.3	9149.5	9249.7	9349.6	9431.6	9536.2	9631.7	9736.3	9822.6
27.5°	8485.6	8640.2	8763.0	8904.1	8994.9	9090.6	9158.7	9245.2	9336.1	9422.4	9490.8
30°	8103.8	8244.7	8372.0	8499.3	8590.2	8658.6	8731.2	8799.5	8858.6	8917.6	8976.8
32.5°	7544.3	7671.7	7794.5	7912.6	7985.5	8044.6	8099.1	8140.1	8171.9	8203.7	8208.2
35°	6775.9	6880.3	6957.6	7062.3	7130.6	7185.1	7185.1	7203.2	7198.7	7185.1	7171.4
37.5°	5916.4	5957.2	5989.0	6030.0	6034.5	6034.5	6007.3	5984.5	5948.2	5939.0	5911.7
40°	5020.5	4965.9	4924.9	4870.4	4838.6	4770.3	4711.3	4670.3	4611.2	4602.2	4593.0
42.5°	4170.0	4042.7	3929.1	3833.6	3724.5	3628.8	3542.6	3478.9	3433.4	3428.8	3433.4
45°	3478.9	3333.3	3165.0	3033.2	2910.5	2792.2	2678.5	2601.2	2560.2	2551.1	2560.2
47.5°	2955.9	2787.7	2623.9	2473.8	2342.0	2210.0	2096.4	1991.8	1941.8	1928.1	1923.6
50°	2542.1	2369.3	2196.4	2041.8	1896.3	1764.4	1623.4	1523.5	1459.8	1437.0	1418.8
52.5°	2137.4	1982.8	1805.3	1646.2	1500.6	1346.0	1200.6	1086.8	1023.1	996.0	977.6
55°	1782.7	1628.1	1464.3	1309.7	1155.1	1000.5	854.8	745.7	677.6	645.8	622.9
57.5°	1423.3	1277.9	1136.9	982.3	854.8	704.9	559.3	463.8	404.7	368.4	350.2
60°	1100.4	986.8	864.0	736.7	613.9	491.2	372.9	281.9	236.4	209.3	186.4
62.5°	832.2	736.7	654.8	545.6	450.2	345.5	254.8	181.9	140.9	118.3	109.1
65°	600.3	527.5	454.7	386.5	318.4	241.1	172.8	118.3	81.8	68.1	63.6
67.5°	427.5	368.4	313.7	268.2	218.3	172.8	122.8	81.8	63.6	54.7	50.0
70°	300.0	254.8	218.3	177.4	145.4	113.6	95.5	59.1	36.3	41.0	31.8
72.5°	200.1	168.3	150.1	122.8	100.0	81.8	59.1	41.0	41.0	31.8	27.3
75°	109.1	100.0	77.3	59.1	50.0	45.5	18.2	9.2	4.5	13.7	4.5
77.5°	77.3	68.1	59.1	50.0	41.0	31.8	18.2	18.2	13.7	18.2	9.2
80°	50.0	41.0	36.3	36.3	22.6	13.7	9.2	9.2	13.7	4.5	4.5
82.5°	31.8	27.3	22.6	22.6	22.6	13.7	13.7	13.7	13.7	9.2	9.2
85°	18.2	13.7	9.2	9.2	4.5	9.2	0.0	4.5	4.5	0.0	0.0
87.5°	9.2	4.5	4.5	4.5	4.5	0.0	0.0	4.5	0.0	4.5	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: P250229

CATALOG NUMBER: LSR8B150D010 EC8B150840 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	9731.7	9731.7	9731.7	9731.7	9731.7	9731.7	9731.7	9731.7	9731.7	9731.7	9731.7
2.5°	9809.0	9827.1	9849.9	9868.1	9909.1	9918.1	9936.4	9954.6	9968.2	9981.7	9986.4
5°	9872.6	9940.9	10004.6	10072.7	10159.2	10218.3	10286.5	10345.6	10404.7	10454.7	10491.0
7.5°	9890.9	9995.4	10091.0	10209.1	10336.4	10445.7	10559.4	10673.0	10791.3	10882.2	10959.5
10°	9927.3	10054.5	10177.3	10318.3	10482.1	10627.5	10768.4	10918.6	11068.7	11196.0	11309.8
12.5°	9990.9	10131.8	10263.8	10418.4	10586.7	10750.3	10904.9	11073.2	11232.5	11373.4	11500.7
15°	10095.5	10227.3	10354.8	10500.2	10668.5	10818.6	10973.2	11136.8	11296.1	11441.5	11559.8
17.5°	10163.7	10286.5	10413.7	10545.7	10686.6	10823.1	10968.5	11114.2	11259.6	11391.6	11500.7
20°	10163.7	10282.0	10377.4	10495.7	10627.5	10745.8	10864.1	10991.4	11118.7	11227.8	11332.4
22.5°	10081.9	10195.5	10268.3	10359.3	10472.9	10573.0	10636.7	10777.6	10873.1	10968.5	11045.8
25°	9890.9	9972.7	10031.9	10095.5	10186.5	10254.6	10309.3	10391.1	10486.5	10523.0	10577.5
27.5°	9545.2	9604.4	9636.2	9649.9	9695.3	9731.7	9740.8	9777.1	9818.1	9827.1	9849.9
30°	8999.6	9004.1	8990.4	8985.9	8963.1	8936.0	8931.3	8926.8	8908.6	8890.5	8895.0
32.5°	8176.4	8153.7	8099.1	8040.1	7981.0	7917.3	7880.8	7835.3	7808.0	7780.9	7749.0
35°	7112.3	7057.8	6980.5	6907.7	6839.5	6789.4	6707.6	6680.2	6653.1	6616.6	6607.6
37.5°	5861.7	5829.9	5757.1	5702.6	5666.3	5643.5	5602.5	5575.3	5575.3	5561.7	5552.5
40°	4570.2	4561.2	4533.9	4547.5	4529.4	4538.4	4533.9	4524.7	4547.5	4547.5	4556.7
42.5°	3428.8	3433.4	3447.1	3456.1	3483.4	3487.9	3510.7	3510.7	3524.4	3537.9	3547.1
45°	2551.1	2569.4	2569.4	2587.6	2614.9	2619.4	2628.4	2633.1	2642.0	2664.9	2673.9
47.5°	1914.5	1919.0	1919.0	1923.6	1932.6	1941.8	1937.3	1941.8	1955.5	1946.3	1955.5
50°	1414.3	1418.8	1405.2	1391.5	1405.2	1405.2	1400.7	1387.0	1400.7	1382.5	1391.5
52.5°	964.2	959.5	945.8	950.5	941.3	936.8	936.8	927.7	927.7	927.7	909.5
55°	609.5	609.5	600.3	600.3	595.8	586.6	582.1	577.4	573.0	568.5	568.5
57.5°	341.0	345.5	332.1	327.4	332.1	327.4	318.4	318.4	318.4	304.7	313.7
60°	186.4	181.9	177.4	172.8	168.3	172.8	172.8	163.8	163.8	163.8	168.3
62.5°	100.0	100.0	95.5	95.5	91.0	91.0	100.0	86.5	91.0	86.5	91.0
65°	54.7	68.1	50.0	50.0	63.6	59.1	54.7	54.7	59.1	50.0	54.7
67.5°	59.1	41.0	36.3	41.0	36.3	36.3	36.3	45.5	41.0	31.8	41.0
70°	27.3	31.8	31.8	22.6	36.3	18.2	31.8	18.2	27.3	22.6	27.3
72.5°	27.3	27.3	27.3	18.2	27.3	18.2	22.6	22.6	18.2	18.2	27.3
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°	9.2	9.2	4.5	4.5	4.5	4.5	9.2	9.2	9.2	0.0	4.5
80°	9.2	9.2	0.0	4.5	0.0	0.0	4.5	0.0	4.5	0.0	9.2
82.5°	4.5	9.2	4.5	4.5	9.2	9.2	9.2	4.5	4.5	4.5	4.5
85°	0.0	4.5	0.0	0.0	0.0	0.0	9.2	0.0	0.0	0.0	4.5
87.5°	0.0	4.5	0.0	0.0	0.0	0.0	4.5	4.5	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: P250229

CATALOG NUMBER: LSR8B150D010 EC8B150840 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	9731.7	9731.7	9731.7	9731.7
2.5°	9990.9	9995.4	10004.6	10000.1
5°	10518.4	10554.9	10573.0	10568.5
7.5°	11014.0	11077.8	11114.2	11114.2
10°	11396.1	11468.9	11523.3	11532.5
12.5°	11600.6	11682.6	11755.4	11737.1
15°	11659.8	11741.8	11814.4	11800.7
17.5°	11591.7	11673.5	11728.1	11718.9
20°	11405.2	11473.4	11528.0	11523.3
22.5°	11114.2	11173.3	11218.8	11214.1
25°	10623.0	10664.0	10700.3	10682.1
27.5°	9868.1	9881.8	9904.4	9877.3
30°	8863.1	8872.1	8881.3	8876.8
32.5°	7735.4	7730.7	7721.7	7712.5
35°	6594.0	6594.0	6598.5	6571.1
37.5°	5557.0	5552.5	5566.2	5552.5
40°	4565.7	4561.2	4579.3	4556.7
42.5°	3560.7	3574.4	3578.9	3578.9
45°	2678.5	2683.0	2687.5	2687.5
47.5°	1955.5	1960.0	1982.8	1955.5
50°	1382.5	1387.0	1391.5	1382.5
52.5°	914.0	918.7	914.0	900.3
55°	559.3	564.0	564.0	564.0
57.5°	300.0	304.7	304.7	300.0
60°	163.8	159.1	163.8	154.6
62.5°	86.5	95.5	91.0	81.8
65°	54.7	54.7	54.7	63.6
67.5°	45.5	36.3	41.0	31.8
70°	27.3	31.8	31.8	22.6
72.5°	22.6	22.6	22.6	27.3
75°	0.0	0.0	0.0	0.0
77.5°	9.2	9.2	9.2	4.5
80°	4.5	0.0	4.5	0.0
82.5°	4.5	4.5	9.2	4.5
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)