

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: P248539

Luminaire Tested: **LSR8B150D010 EC8B150930 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248539
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: LSR8B150D010 EC8B150930 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13703.1 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

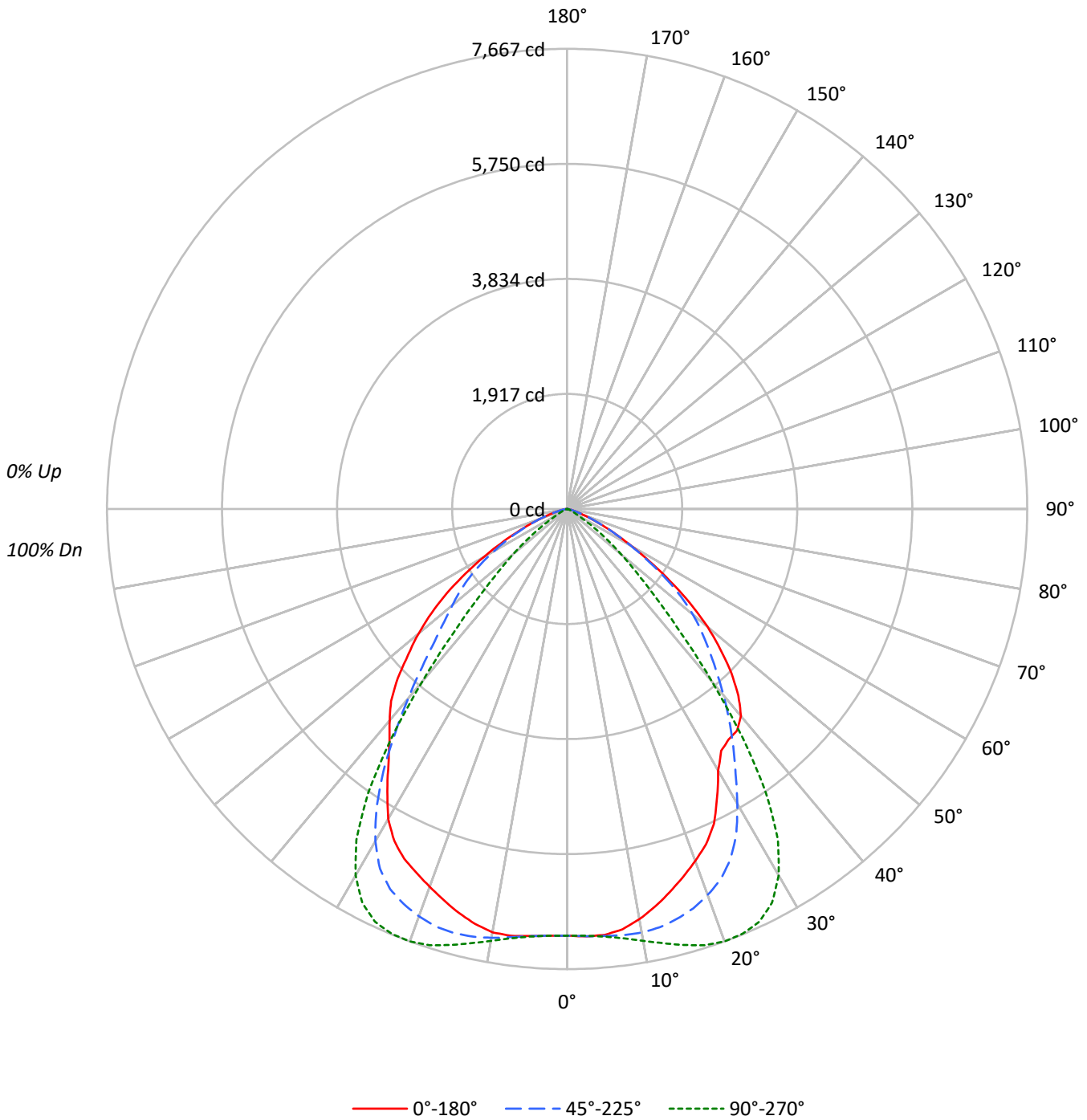
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34

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°	683.6	5.0
10°-20°	2025.2	14.8
20°-30°	3089.6	22.5
30°-40°	3224.1	23.5
40°-50°	2421.7	17.7
50°-60°	1490.0	10.9
60°-70°	606.4	4.4
70°-80°	142.9	1.0
80°-90°	19.7	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°	5798.4	42.3
0°-40°	9022.5	65.8
0°-60°	12934.2	94.4
0°-90°	13703.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13703.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7109	7109	7109	7109	7109	
5°	7124	7143	7150	7143	7143	674
15°	6607	7071	7520	7312	6969	1861
25°	5788	6437	7584	6984	6430	2631
35°	4690	4822	5777	5339	5188	2961
45°	3871	3351	2090	3120	3992	2954
55°	2090	1985	547	1985	2449	1879
65°	653	660	83	887	940	681
75°	113	113	15	200	208	136
85°	11	11	4	26	34	16
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°	7108.7	7108.7	7108.7	7108.7	7108.7	7108.7	7108.7	7108.7	7108.7	7108.7	7108.7
2.5°	7127.7	7116.2	7127.7	7127.7	7131.4	7123.8	7127.7	7131.4	7123.8	7123.8	7123.8
5°	7123.8	7116.2	7123.8	7120.0	7127.7	7127.7	7135.2	7135.2	7142.7	7142.7	7154.0
7.5°	7063.4	7048.4	7063.4	7074.9	7082.3	7097.4	7116.2	7131.4	7146.5	7161.6	7180.5
10°	6938.9	6938.9	6950.3	6972.8	6995.5	7021.9	7055.9	7093.7	7131.4	7165.3	7199.3
12.5°	6784.3	6772.9	6795.5	6825.8	6859.7	6901.2	6954.0	7010.6	7071.0	7138.9	7191.8
15°	6606.9	6595.5	6622.0	6652.1	6693.7	6754.0	6818.3	6893.7	6980.5	7071.0	7157.8
17.5°	6425.8	6422.0	6448.4	6489.9	6523.9	6588.0	6671.1	6761.5	6859.7	6980.5	7093.7
20°	6240.9	6237.1	6263.6	6297.6	6342.7	6403.2	6486.1	6591.8	6708.7	6844.6	6976.7
22.5°	6048.5	6052.2	6074.8	6112.6	6150.4	6214.5	6301.3	6407.0	6535.2	6682.3	6829.5
25°	5788.1	5769.2	5799.4	5837.2	5901.3	5954.1	6037.1	6150.4	6282.4	6437.1	6610.6
27.5°	5410.7	5406.9	5433.5	5467.3	5524.0	5588.1	5678.6	5795.7	5935.2	6105.1	6274.8
30°	5033.4	5041.0	5052.3	5086.3	5124.0	5188.2	5278.7	5376.9	5508.9	5671.1	5852.3
32.5°	4776.8	4776.8	4791.9	4814.6	4841.0	4875.0	4939.1	5010.8	5112.8	5225.9	5357.9
35°	4690.0	4675.0	4690.0	4693.9	4697.7	4705.2	4716.5	4739.1	4773.1	4822.2	4871.2
37.5°	4652.4	4641.1	4641.1	4626.0	4607.1	4584.4	4554.3	4520.3	4482.7	4433.6	4395.8
40°	4505.2	4497.7	4490.1	4475.0	4433.6	4388.3	4339.2	4259.9	4173.1	4052.4	3931.7
42.5°	4222.2	4214.7	4210.9	4180.8	4143.0	4090.2	4033.6	3950.5	3841.1	3686.4	3512.9
45°	3871.4	3856.2	3844.9	3818.6	3792.0	3746.8	3694.0	3618.5	3509.1	3350.7	3143.1
47.5°	3463.8	3456.3	3452.5	3441.2	3414.8	3388.3	3354.4	3294.1	3195.9	3045.0	2830.0
50°	3052.5	3037.5	3045.0	3041.3	3030.0	3011.0	2988.4	2946.9	2871.3	2735.6	2539.4
52.5°	2580.9	2580.9	2577.2	2588.4	2592.2	2588.4	2592.2	2546.9	2482.8	2380.9	2214.9
55°	2090.3	2090.3	2101.7	2116.8	2131.8	2135.6	2131.8	2113.0	2067.7	1984.7	1837.5
57.5°	1629.9	1622.5	1645.2	1667.7	1682.8	1698.0	1686.5	1671.5	1645.2	1577.1	1464.0
60°	1241.4	1241.4	1256.4	1271.6	1286.7	1301.8	1298.0	1294.2	1271.6	1226.3	1135.8
62.5°	913.1	916.9	916.9	928.2	943.3	958.5	969.7	958.5	947.0	916.9	856.4
65°	652.8	648.9	652.8	664.1	675.4	690.5	698.0	694.2	682.9	660.3	615.1
67.5°	437.8	433.9	449.0	452.8	460.3	475.4	471.7	475.4	471.7	452.8	415.1
70°	286.8	279.2	286.8	282.9	294.4	298.1	305.6	309.4	305.6	294.4	282.9
72.5°	177.3	173.5	177.3	181.2	185.0	188.7	196.2	196.2	192.4	185.0	169.8
75°	113.2	101.8	105.6	98.1	105.6	105.6	113.2	116.9	113.2	113.2	105.6
77.5°	67.9	67.9	67.9	67.9	67.9	67.9	67.9	71.7	75.4	67.9	64.1
80°	34.0	34.0	37.8	37.8	37.8	41.6	37.8	37.8	37.8	41.6	30.2
82.5°	26.5	22.6	22.6	22.6	26.5	22.6	22.6	22.6	22.6	22.6	22.6
85°	11.3	15.0	11.3	7.6	11.3	11.3	15.0	11.3	11.3	11.3	15.0
87.5°	3.8	3.8	0.0	0.0	0.0	3.8	0.0	3.8	3.8	7.6	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



TEST NUMBER: P248539

CATALOG NUMBER: LSR8B150D010 EC8B150930 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	7108.7	7108.7	7108.7	7108.7	7108.7	7108.7	7108.7	7108.7	7108.7	7108.7	7108.7
2.5°	7127.7	7120.0	7120.0	7116.2	7123.8	7116.2	7120.0	7116.2	7116.2	7123.8	7116.2
5°	7154.0	7157.8	7150.2	7146.5	7157.8	7157.8	7157.8	7150.2	7150.2	7154.0	7150.2
7.5°	7191.8	7199.3	7203.1	7206.8	7214.4	7218.2	7218.2	7214.4	7210.6	7221.9	7206.8
10°	7233.3	7244.6	7267.2	7278.5	7297.4	7297.4	7305.0	7305.0	7297.4	7305.0	7301.2
12.5°	7218.2	7286.1	7323.8	7350.2	7376.6	7399.3	7406.8	7410.6	7406.8	7421.9	7406.8
15°	7244.6	7301.2	7361.6	7406.8	7455.8	7482.2	7489.8	7520.0	7527.5	7531.3	7508.7
17.5°	7203.1	7305.0	7369.0	7436.9	7508.7	7557.8	7603.0	7621.9	7625.7	7633.2	7603.0
20°	7108.7	7221.9	7320.0	7418.1	7501.2	7576.6	7614.4	7667.2	7652.1	7682.3	7640.7
22.5°	6980.5	7108.7	7233.3	7361.6	7448.4	7538.9	7618.1	7655.8	7674.7	7674.7	7629.4
25°	6776.7	6927.7	7063.4	7195.5	7327.6	7436.9	7527.5	7584.1	7595.6	7591.7	7538.9
27.5°	6459.8	6622.0	6780.5	6931.4	7093.7	7221.9	7327.6	7395.5	7414.4	7414.4	7357.8
30°	6022.0	6195.7	6350.4	6531.4	6697.5	6840.9	6988.0	7048.4	7082.3	7082.3	7018.2
32.5°	5501.3	5648.5	5791.9	5969.2	6150.4	6312.6	6452.1	6535.2	6576.7	6573.0	6516.4
35°	4935.4	5007.1	5116.5	5248.5	5410.7	5561.7	5697.5	5776.8	5848.5	5844.7	5791.9
37.5°	4369.3	4350.5	4361.8	4410.9	4512.7	4618.4	4724.0	4799.6	4859.9	4886.3	4875.0
40°	3814.8	3716.6	3622.3	3588.3	3595.8	3633.6	3690.2	3746.8	3814.8	3848.7	3863.8
42.5°	3316.7	3150.7	2984.6	2860.1	2788.4	2765.7	2792.2	2811.0	2852.5	2901.6	2950.7
45°	2916.7	2694.1	2475.2	2282.8	2162.1	2090.3	2075.3	2090.3	2113.0	2162.1	2226.2
47.5°	2588.4	2328.1	2082.8	1867.7	1690.4	1596.1	1569.7	1562.1	1584.8	1629.9	1716.8
50°	2297.8	2037.5	1765.9	1516.8	1332.0	1226.3	1188.6	1173.5	1199.8	1233.8	1313.0
52.5°	1980.9	1724.3	1445.2	1203.6	1011.3	901.8	860.3	837.6	852.7	898.0	977.3
55°	1637.6	1399.8	1147.0	898.0	713.1	611.3	562.2	547.2	562.2	611.3	690.5
57.5°	1294.2	1094.2	882.9	648.9	482.9	381.1	332.0	316.9	358.5	377.3	460.3
60°	1011.3	849.0	667.9	475.4	332.0	252.8	203.8	192.4	211.3	245.2	313.2
62.5°	758.5	656.6	513.2	339.6	245.2	162.2	135.9	124.5	135.9	162.2	215.1
65°	550.9	471.7	358.5	249.0	166.0	120.7	90.6	83.0	94.4	113.2	158.5
67.5°	377.3	316.9	249.0	173.5	113.2	75.4	64.1	64.1	67.9	83.0	116.9
70°	245.2	207.5	158.5	113.2	75.4	56.6	49.0	41.6	49.0	60.4	79.3
72.5°	154.7	132.1	101.8	79.3	56.6	41.6	34.0	30.2	37.8	45.3	60.4
75°	94.4	71.7	52.8	41.6	30.2	30.2	30.2	15.0	18.8	30.2	37.8
77.5°	56.6	49.0	41.6	34.0	26.5	15.0	15.0	15.0	18.8	22.6	34.0
80°	30.2	26.5	18.8	18.8	15.0	11.3	15.0	11.3	7.6	18.8	22.6
82.5°	18.8	15.0	15.0	15.0	18.8	7.6	11.3	7.6	11.3	15.0	11.3
85°	11.3	11.3	11.3	7.6	18.8	7.6	7.6	3.8	3.8	7.6	7.6
87.5°	0.0	3.8	3.8	0.0	3.8	0.0	3.8	3.8	3.8	3.8	3.8
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: P248539

CATALOG NUMBER: LSR8B150D010 EC8B150930 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	7108.7	7108.7	7108.7	7108.7	7108.7	7108.7	7108.7	7108.7	7108.7	7108.7	7108.7
2.5°	7120.0	7116.2	7120.0	7116.2	7116.2	7116.2	7120.0	7120.0	7116.2	7116.2	7123.8
5°	7150.2	7150.2	7150.2	7146.5	7142.7	7142.7	7150.2	7150.2	7138.9	7150.2	7150.2
7.5°	7214.4	7203.1	7214.4	7199.3	7191.8	7195.5	7199.3	7191.8	7184.2	7188.0	7188.0
10°	7297.4	7286.1	7286.1	7274.7	7263.4	7255.9	7248.4	7229.4	7210.6	7206.8	7191.8
12.5°	7395.5	7376.6	7365.3	7342.7	7323.8	7297.4	7274.7	7244.6	7206.8	7180.5	7154.0
15°	7493.5	7463.4	7436.9	7399.3	7357.8	7312.4	7263.4	7214.4	7154.0	7101.2	7055.9
17.5°	7572.8	7531.3	7482.2	7421.9	7361.6	7293.6	7221.9	7150.2	7063.4	6995.5	6942.7
20°	7599.3	7538.9	7474.7	7395.5	7316.2	7221.9	7131.4	7037.1	6938.9	6867.2	6806.8
22.5°	7565.3	7493.5	7414.4	7331.3	7225.6	7123.8	7018.2	6908.7	6822.0	6723.9	6667.3
25°	7471.0	7384.1	7297.4	7199.3	7097.4	6984.3	6871.1	6757.8	6652.1	6599.3	6527.7
27.5°	7278.5	7184.2	7089.9	6988.0	6871.1	6757.8	6640.9	6531.4	6440.9	6369.2	6327.7
30°	6938.9	6829.5	6720.1	6610.6	6508.8	6391.8	6282.4	6191.8	6101.3	6044.7	6003.2
32.5°	6418.2	6320.2	6210.8	6105.1	6010.8	5912.6	5822.0	5742.9	5678.6	5640.9	5610.7
35°	5716.4	5618.3	5535.3	5459.8	5380.6	5339.1	5282.5	5237.2	5210.7	5195.7	5191.9
37.5°	4833.4	4776.8	4750.5	4735.4	4720.3	4709.0	4716.5	4735.4	4750.5	4776.8	4807.1
40°	3890.2	3939.2	3954.3	4007.1	4056.2	4120.3	4192.1	4275.0	4343.0	4429.7	4490.1
42.5°	3030.0	3120.4	3226.1	3339.2	3460.1	3577.0	3720.4	3852.4	3973.2	4082.6	4177.0
45°	2328.1	2467.7	2626.2	2788.4	2950.7	3120.4	3294.1	3456.3	3599.6	3716.6	3814.8
47.5°	1814.9	1969.6	2173.4	2373.4	2569.6	2769.5	2961.9	3131.7	3252.5	3365.7	3452.5
50°	1437.6	1614.9	1837.5	2067.7	2282.8	2494.0	2697.8	2856.3	2977.0	3067.6	3131.7
52.5°	1113.0	1324.3	1550.8	1792.3	2022.5	2252.6	2441.2	2588.4	2686.6	2765.7	2814.8
55°	830.1	1037.6	1279.2	1528.1	1762.1	1984.7	2162.1	2290.4	2377.2	2422.4	2448.8
57.5°	600.0	788.6	1030.1	1279.2	1490.4	1701.7	1845.1	1962.1	2011.1	2037.5	2048.9
60°	437.8	611.3	826.3	1041.4	1241.4	1411.2	1535.8	1614.9	1652.7	1667.7	1664.0
62.5°	320.7	471.7	656.6	837.6	999.8	1139.5	1237.6	1290.4	1309.3	1316.8	1305.5
65°	245.2	362.2	520.7	660.3	784.8	886.7	958.5	992.4	1003.6	999.8	992.4
67.5°	181.2	271.7	388.7	494.2	584.8	664.1	701.9	732.0	739.5	728.2	716.9
70°	128.4	200.0	282.9	354.7	422.6	467.9	509.4	513.2	513.2	509.4	501.9
72.5°	90.6	139.6	192.4	241.5	282.9	316.9	332.0	343.4	339.6	335.7	328.3
75°	60.4	86.8	139.6	151.0	188.7	200.0	215.1	215.1	218.8	207.5	207.5
77.5°	37.8	60.4	83.0	98.1	113.2	128.4	135.9	135.9	139.6	135.9	135.9
80°	22.6	37.8	45.3	67.9	67.9	79.3	83.0	86.8	79.3	90.6	79.3
82.5°	15.0	22.6	34.0	34.0	41.6	49.0	49.0	52.8	52.8	49.0	49.0
85°	11.3	15.0	18.8	22.6	22.6	26.5	22.6	22.6	26.5	30.2	26.5
87.5°	3.8	7.6	3.8	7.6	7.6	15.0	11.3	11.3	11.3	15.0	15.0
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: P248539

CATALOG NUMBER: LSR8B150D010 EC8B150930 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	7108.7	7108.7	7108.7	7108.7
2.5°	7116.2	7120.0	7116.2	7116.2
5°	7150.2	7146.5	7150.2	7142.7
7.5°	7176.6	7176.6	7172.8	7172.8
10°	7176.6	7161.6	7161.6	7161.6
12.5°	7120.0	7101.2	7089.9	7082.3
15°	7021.9	6988.0	6972.8	6969.1
17.5°	6893.7	6863.4	6844.6	6833.3
20°	6746.5	6716.4	6693.7	6697.5
22.5°	6618.2	6584.3	6569.2	6561.5
25°	6489.9	6448.4	6437.1	6429.5
27.5°	6282.4	6259.8	6248.5	6237.1
30°	5965.4	5954.1	5935.2	5961.7
32.5°	5599.5	5580.6	5565.5	5576.9
35°	5195.7	5184.4	5195.7	5188.2
37.5°	4826.0	4837.2	4852.4	4859.9
40°	4535.5	4576.9	4592.1	4599.5
42.5°	4244.9	4293.9	4324.1	4343.0
45°	3886.4	3935.4	3969.3	3992.1
47.5°	3516.6	3558.2	3592.0	3588.3
50°	3180.8	3203.5	3218.5	3233.6
52.5°	2841.2	2841.2	2845.0	2845.0
55°	2456.3	2448.8	2445.0	2448.8
57.5°	2033.7	2026.2	2022.5	2011.1
60°	1648.9	1626.2	1611.1	1611.1
62.5°	1290.4	1264.0	1252.7	1248.9
65°	969.7	965.9	943.3	939.5
67.5°	701.9	686.7	671.7	675.4
70°	494.2	471.7	471.7	464.1
72.5°	320.7	309.4	305.6	305.6
75°	200.0	200.0	192.4	207.5
77.5°	132.1	132.1	128.4	132.1
80°	79.3	79.3	79.3	75.4
82.5°	49.0	52.8	49.0	49.0
85°	26.5	30.2	22.6	34.0
87.5°	15.0	18.8	15.0	18.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)