

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: P248368

Luminaire Tested: **LSR8B150D010 EC8B150850 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248368
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 EC8B150850 8LBDWOLI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17284.0 lumens
Efficiency: N/A
Efficacy: 109.0 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

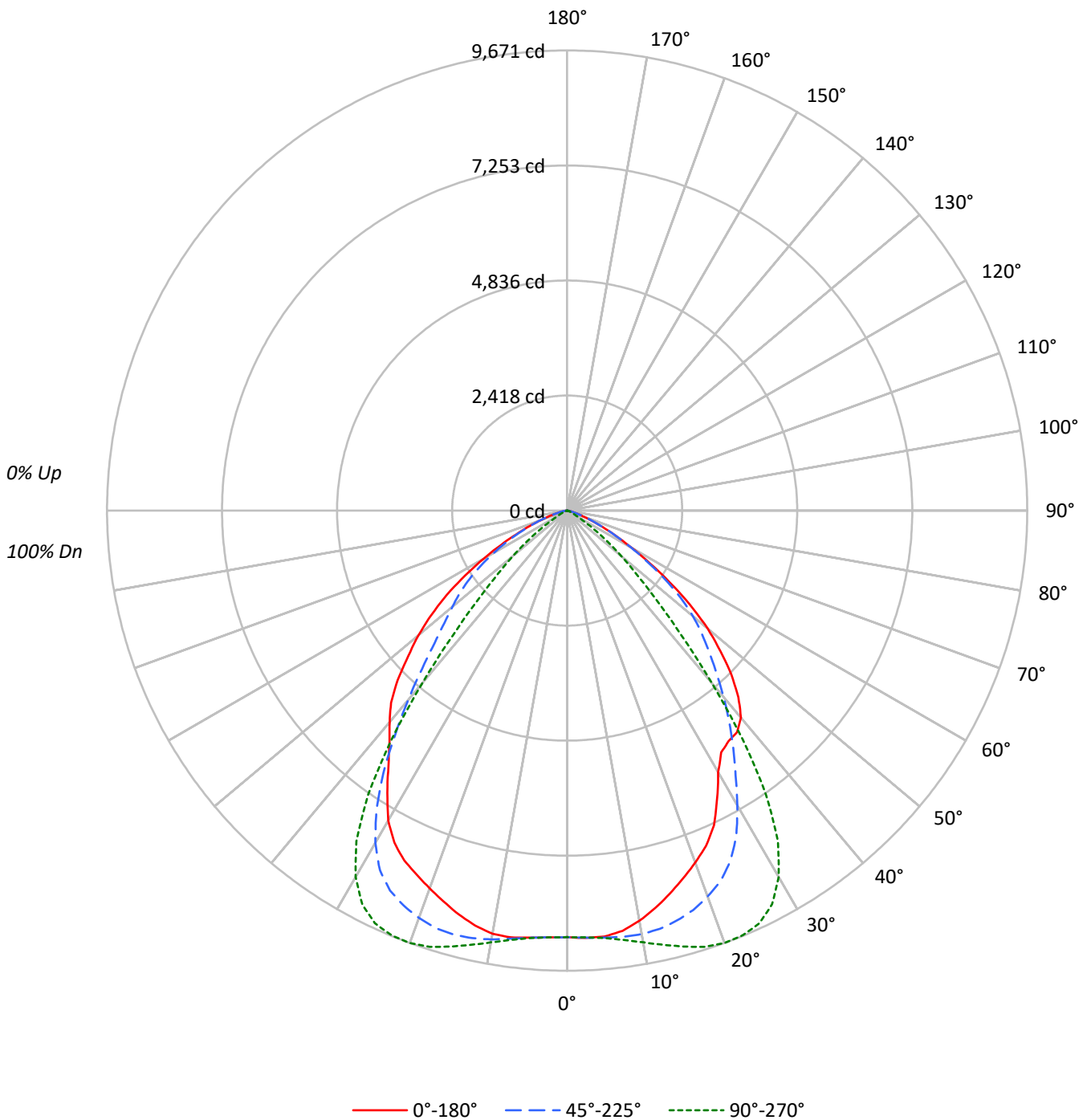
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248368

CATALOG NUMBER: LSR8B150D010 EC8B150850 8LBDW0LI

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°	276488	276488	276488
5°	278135	279166	278872
10°	274049	288506	282845
15°	266036	302803	280622
20°	258316	317347	277214
25°	248396	325475	275925
30°	226060	316554	267748
35°	222692	274291	246340
40°	228743	190236	233529
45°	212943	114980	219585
50°	184705	71005	195667
55°	141748	37101	166053
60°	96567	14968	125331
65°	60072	7639	86463
70°	32611	4724	52779
75°	17014	2264	31191
80°	7618	2539	16888
85°	5059	1698	15178



TEST NUMBER: P248368

CATALOG NUMBER: LSR8B150D010 EC8B150850 8LBDWOLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	862.3	5.0
10°-20°	2554.4	14.8
20°-30°	3897.0	22.5
30°-40°	4066.6	23.5
40°-50°	3054.5	17.7
50°-60°	1879.4	10.9
60°-70°	764.8	4.4
70°-80°	180.2	1.0
80°-90°	24.8	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°	7313.7	42.3
0°-40°	11380.2	65.8
0°-60°	16314.1	94.4
0°-90°	17284.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17284.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8966	8966	8966	8966	8966	
5°	8985	9009	9019	9009	9009	850
15°	8333	8919	9485	9223	8790	2348
25°	7301	8119	9566	8809	8110	3319
35°	5916	6082	7286	6734	6544	3735
45°	4883	4226	2637	3936	5035	3726
55°	2637	2503	690	2503	3089	2370
65°	823	833	105	1118	1185	859
75°	143	143	19	252	262	172
85°	14	14	5	33	43	20
90°	0	0	0	0	0	



TEST NUMBER: P248368

CATALOG NUMBER: LSR8B150D010 EC8B150850 8LBDWOLI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	8966.3	8966.3	8966.3	8966.3	8966.3	8966.3	8966.3	8966.3	8966.3	8966.3	8966.3
2.5°	8990.2	8975.9	8990.2	8990.2	8995.0	8985.4	8990.2	8995.0	8985.4	8985.4	8985.4
5°	8985.4	8975.9	8985.4	8980.7	8990.2	8990.2	8999.7	8999.7	9009.2	9009.2	9023.5
7.5°	8909.3	8890.3	8909.3	8923.6	8933.0	8952.1	8975.9	8995.0	9014.0	9033.1	9056.8
10°	8752.2	8752.2	8766.5	8795.0	8823.6	8856.9	8899.7	8947.3	8995.0	9037.7	9080.6
12.5°	8557.1	8542.8	8571.3	8609.4	8652.3	8704.7	8771.3	8842.7	8918.8	9004.4	9071.1
15°	8333.4	8319.1	8352.4	8390.5	8442.9	8519.0	8600.0	8695.1	8804.6	8918.8	9028.3
17.5°	8104.9	8100.2	8133.5	8185.9	8228.7	8309.6	8414.4	8528.5	8652.3	8804.6	8947.3
20°	7871.8	7867.0	7900.3	7943.2	8000.3	8076.4	8181.1	8314.3	8461.9	8633.3	8799.8
22.5°	7629.0	7633.8	7662.3	7709.9	7757.6	7838.4	7947.9	8081.2	8242.9	8428.6	8614.2
25°	7300.6	7276.9	7314.9	7362.6	7443.4	7510.0	7614.8	7757.6	7924.1	8119.3	8338.2
27.5°	6824.7	6819.9	6853.3	6896.1	6967.5	7048.4	7162.6	7310.2	7486.2	7700.4	7914.6
30°	6348.8	6358.3	6372.6	6415.5	6463.0	6543.9	6658.2	6781.9	6948.5	7153.1	7381.6
32.5°	6025.1	6025.1	6044.2	6072.8	6106.1	6148.9	6229.9	6320.2	6448.8	6591.6	6758.1
35°	5915.7	5896.7	5915.7	5920.5	5925.2	5934.8	5949.0	5977.6	6020.4	6082.3	6144.2
37.5°	5868.2	5853.8	5853.8	5834.9	5811.0	5782.5	5744.4	5701.5	5654.0	5592.1	5544.5
40°	5682.5	5673.0	5663.4	5644.5	5592.1	5535.0	5473.1	5373.1	5263.7	5111.4	4959.2
42.5°	5325.6	5316.1	5311.3	5273.2	5225.6	5159.0	5087.6	4982.9	4844.9	4649.7	4430.8
45°	4883.0	4863.9	4849.7	4816.4	4783.0	4725.9	4659.3	4564.0	4426.0	4226.2	3964.4
47.5°	4369.0	4359.4	4354.7	4340.5	4307.1	4273.7	4231.0	4154.8	4031.0	3840.7	3569.4
50°	3850.2	3831.2	3840.7	3836.0	3821.7	3797.9	3769.3	3717.0	3621.7	3450.4	3203.0
52.5°	3255.3	3255.3	3250.6	3264.8	3269.6	3264.8	3269.6	3212.5	3131.6	3003.0	2793.6
55°	2636.6	2636.6	2650.9	2670.0	2689.0	2693.7	2689.0	2665.2	2608.0	2503.3	2317.7
57.5°	2055.9	2046.5	2075.0	2103.6	2122.7	2141.6	2127.3	2108.3	2075.0	1989.3	1846.6
60°	1565.8	1565.8	1584.8	1603.9	1622.9	1641.9	1637.2	1632.4	1603.9	1546.7	1432.6
62.5°	1151.7	1156.5	1156.5	1170.8	1189.8	1208.9	1223.1	1208.9	1194.5	1156.5	1080.3
65°	823.3	818.5	823.3	837.6	851.9	870.9	880.5	875.7	861.4	832.9	775.8
67.5°	552.1	547.3	566.3	571.1	580.6	599.7	594.9	599.7	594.9	571.1	523.6
70°	361.7	352.1	361.7	356.9	371.2	376.0	385.5	390.2	385.5	371.2	356.9
72.5°	223.7	218.9	223.7	228.5	233.2	237.9	247.5	247.5	242.7	233.2	214.2
75°	142.8	128.4	133.2	123.8	133.2	133.2	142.8	147.5	142.8	142.8	133.2
77.5°	85.7	85.7	85.7	85.7	85.7	85.7	85.7	90.5	95.1	85.7	80.9
80°	42.9	42.9	47.6	47.6	47.6	52.4	47.6	47.6	47.6	52.4	38.1
82.5°	33.3	28.5	28.5	28.5	33.3	28.5	28.5	28.5	28.5	28.5	28.5
85°	14.3	19.0	14.3	9.5	14.3	14.3	19.0	14.3	14.3	14.3	19.0
87.5°	4.8	4.8	0.0	0.0	0.0	4.8	0.0	4.8	4.8	9.5	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: P248368

CATALOG NUMBER: LSR8B150D010 EC8B150850 8LBDWOLI

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	8966.3	8966.3	8966.3	8966.3	8966.3	8966.3	8966.3	8966.3	8966.3	8966.3	8966.3
2.5°	8990.2	8980.7	8980.7	8975.9	8985.4	8975.9	8980.7	8975.9	8975.9	8985.4	8975.9
5°	9023.5	9028.3	9018.7	9014.0	9028.3	9028.3	9028.3	9018.7	9018.7	9023.5	9018.7
7.5°	9071.1	9080.6	9085.3	9090.1	9099.7	9104.4	9104.4	9099.7	9094.9	9109.2	9090.1
10°	9123.4	9137.7	9166.3	9180.6	9204.4	9204.4	9213.9	9213.9	9204.4	9213.9	9209.1
12.5°	9104.4	9190.0	9237.7	9271.0	9304.3	9332.8	9342.3	9347.1	9342.3	9361.4	9342.3
15°	9137.7	9209.1	9285.3	9342.3	9404.2	9437.5	9447.0	9485.1	9494.7	9499.4	9470.9
17.5°	9085.3	9213.9	9294.7	9380.4	9470.9	9532.7	9589.8	9613.7	9618.4	9627.9	9589.8
20°	8966.3	9109.2	9232.9	9356.7	9461.4	9556.5	9604.1	9670.7	9651.8	9689.8	9637.4
22.5°	8804.6	8966.3	9123.4	9285.3	9394.7	9509.0	9608.9	9656.4	9680.3	9680.3	9623.1
25°	8547.6	8738.0	8909.3	9075.8	9242.4	9380.4	9494.7	9566.0	9580.4	9575.6	9509.0
27.5°	8147.8	8352.4	8552.3	8742.7	8947.3	9109.2	9242.4	9328.0	9351.9	9351.9	9280.5
30°	7595.7	7814.6	8009.8	8238.2	8447.7	8628.5	8814.1	8890.3	8933.0	8933.0	8852.2
32.5°	6938.9	7124.5	7305.4	7529.1	7757.6	7962.2	8138.3	8242.9	8295.3	8290.6	8219.2
35°	6225.1	6315.5	6453.6	6620.1	6824.7	7015.1	7186.4	7286.4	7376.8	7372.0	7305.4
37.5°	5511.1	5487.4	5501.7	5563.5	5692.0	5825.3	5958.5	6053.8	6129.8	6163.2	6148.9
40°	4811.6	4687.8	4568.8	4526.1	4535.5	4583.1	4654.5	4725.9	4811.6	4854.5	4873.4
42.5°	4183.4	3974.0	3764.5	3607.5	3517.0	3488.5	3521.8	3545.6	3598.0	3659.8	3721.8
45°	3678.9	3398.1	3122.0	2879.4	2727.0	2636.6	2617.6	2636.6	2665.2	2727.0	2808.0
47.5°	3264.8	2936.4	2627.1	2355.8	2132.1	2013.2	1979.9	1970.3	1998.9	2055.9	2165.4
50°	2898.3	2569.9	2227.3	1913.2	1680.0	1546.7	1499.2	1480.1	1513.4	1556.2	1656.2
52.5°	2498.6	2174.9	1822.8	1518.2	1275.5	1137.5	1085.1	1056.6	1075.5	1132.7	1232.6
55°	2065.5	1765.6	1446.8	1132.7	899.5	771.0	709.1	690.1	709.1	771.0	870.9
57.5°	1632.4	1380.2	1113.6	818.5	609.2	480.7	418.8	399.8	452.2	475.9	580.6
60°	1275.5	1070.9	842.4	599.7	418.8	318.8	257.0	242.7	266.6	309.3	395.0
62.5°	956.6	828.1	647.2	428.3	309.3	204.6	171.3	157.1	171.3	204.6	271.3
65°	694.9	594.9	452.2	314.1	209.4	152.3	114.2	104.7	119.0	142.8	199.9
67.5°	475.9	399.8	314.1	218.9	142.8	95.1	80.9	80.9	85.7	104.7	147.5
70°	309.3	261.8	199.9	142.8	95.1	71.4	61.8	52.4	61.8	76.2	99.9
72.5°	195.2	166.5	128.4	99.9	71.4	52.4	42.9	38.1	47.6	57.1	76.2
75°	119.0	90.5	66.6	52.4	38.1	38.1	38.1	19.0	23.8	38.1	47.6
77.5°	71.4	61.8	52.4	42.9	33.3	19.0	19.0	19.0	23.8	28.5	42.9
80°	38.1	33.3	23.8	23.8	19.0	14.3	19.0	14.3	9.5	23.8	28.5
82.5°	23.8	19.0	19.0	19.0	23.8	9.5	14.3	9.5	14.3	19.0	14.3
85°	14.3	14.3	14.3	9.5	23.8	9.5	9.5	4.8	4.8	9.5	9.5
87.5°	0.0	4.8	4.8	0.0	4.8	0.0	4.8	4.8	4.8	4.8	4.8
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: P248368

CATALOG NUMBER: LSR8B150D010 EC8B150850 8LBDWOLI

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	8966.3	8966.3	8966.3	8966.3	8966.3	8966.3	8966.3	8966.3	8966.3	8966.3	8966.3
2.5°	8980.7	8975.9	8980.7	8975.9	8975.9	8975.9	8980.7	8980.7	8975.9	8975.9	8985.4
5°	9018.7	9018.7	9018.7	9014.0	9009.2	9009.2	9018.7	9018.7	9004.4	9018.7	9018.7
7.5°	9099.7	9085.3	9099.7	9080.6	9071.1	9075.8	9080.6	9071.1	9061.6	9066.4	9066.4
10°	9204.4	9190.0	9190.0	9175.8	9161.5	9152.0	9142.5	9118.6	9094.9	9090.1	9071.1
12.5°	9328.0	9304.3	9290.1	9261.4	9237.7	9204.4	9175.8	9137.7	9090.1	9056.8	9023.5
15°	9451.8	9413.7	9380.4	9332.8	9280.5	9223.3	9161.5	9099.7	9023.5	8956.9	8899.7
17.5°	9551.7	9499.4	9437.5	9361.4	9285.3	9199.6	9109.2	9018.7	8909.3	8823.6	8757.0
20°	9585.0	9509.0	9428.1	9328.0	9228.1	9109.2	8995.0	8876.0	8752.2	8661.8	8585.7
22.5°	9542.3	9451.8	9351.9	9247.2	9113.9	8985.4	8852.2	8714.1	8604.6	8481.0	8409.6
25°	9423.3	9313.8	9204.4	9080.6	8952.1	8809.4	8666.6	8523.8	8390.5	8323.9	8233.5
27.5°	9180.6	9061.6	8942.6	8814.1	8666.6	8523.8	8376.3	8238.2	8124.0	8033.6	7981.3
30°	8752.2	8614.2	8476.2	8338.2	8209.6	8062.1	7924.1	7809.9	7695.6	7624.2	7572.0
32.5°	8095.4	7971.7	7833.7	7700.4	7581.5	7457.7	7343.5	7243.6	7162.6	7115.0	7076.9
35°	7210.3	7086.5	6981.8	6886.6	6786.6	6734.3	6662.9	6605.8	6572.5	6553.5	6548.7
37.5°	6096.5	6025.1	5991.8	5972.9	5953.8	5939.5	5949.0	5972.9	5991.8	6025.1	6063.2
40°	4906.8	4968.6	4987.7	5054.3	5116.1	5197.1	5287.5	5392.2	5477.8	5587.3	5663.4
42.5°	3821.7	3935.9	4069.1	4211.9	4364.2	4511.8	4692.6	4859.1	5011.4	5149.4	5268.4
45°	2936.4	3112.5	3312.4	3517.0	3721.8	3935.9	4154.8	4359.4	4540.3	4687.8	4811.6
47.5°	2289.2	2484.4	2741.4	2993.6	3241.0	3493.3	3736.0	3950.1	4102.4	4245.2	4354.7
50°	1813.2	2036.9	2317.7	2608.0	2879.4	3145.8	3402.8	3602.7	3755.1	3869.3	3950.1
52.5°	1403.9	1670.5	1956.0	2260.6	2551.0	2841.3	3079.2	3264.8	3388.6	3488.5	3550.3
55°	1047.0	1308.8	1613.4	1927.5	2222.6	2503.3	2727.0	2888.9	2998.4	3055.4	3088.7
57.5°	756.7	994.7	1299.2	1613.4	1879.9	2146.4	2327.3	2474.8	2536.6	2569.9	2584.3
60°	552.1	771.0	1042.2	1313.6	1565.8	1779.9	1937.0	2036.9	2084.6	2103.6	2098.8
62.5°	404.5	594.9	828.1	1056.6	1261.2	1437.2	1561.0	1627.6	1651.5	1660.9	1646.7
65°	309.3	456.8	656.8	832.9	989.9	1118.4	1208.9	1251.7	1265.9	1261.2	1251.7
67.5°	228.5	342.7	490.3	623.5	737.7	837.6	885.3	923.3	932.8	918.6	904.2
70°	161.9	252.2	356.9	447.4	533.0	590.2	642.5	647.2	647.2	642.5	633.0
72.5°	114.2	176.1	242.7	304.6	356.9	399.8	418.8	433.1	428.3	423.5	414.1
75°	76.2	109.5	176.1	190.4	237.9	252.2	271.3	271.3	276.0	261.8	261.8
77.5°	47.6	76.2	104.7	123.8	142.8	161.9	171.3	171.3	176.1	171.3	171.3
80°	28.5	47.6	57.1	85.7	85.7	99.9	104.7	109.5	99.9	114.2	99.9
82.5°	19.0	28.5	42.9	42.9	52.4	61.8	61.8	66.6	66.6	61.8	61.8
85°	14.3	19.0	23.8	28.5	28.5	33.3	28.5	28.5	33.3	38.1	33.3
87.5°	4.8	9.5	4.8	9.5	9.5	19.0	14.3	14.3	14.3	19.0	19.0
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: P248368

CATALOG NUMBER: LSR8B150D010 EC8B150850 8LBDWOLI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	8966.3	8966.3	8966.3	8966.3
2.5°	8975.9	8980.7	8975.9	8975.9
5°	9018.7	9014.0	9018.7	9009.2
7.5°	9052.0	9052.0	9047.3	9047.3
10°	9052.0	9033.1	9033.1	9033.1
12.5°	8980.7	8956.9	8942.6	8933.0
15°	8856.9	8814.1	8795.0	8790.3
17.5°	8695.1	8657.0	8633.3	8619.0
20°	8509.5	8471.4	8442.9	8447.7
22.5°	8347.6	8304.9	8285.8	8276.2
25°	8185.9	8133.5	8119.3	8109.7
27.5°	7924.1	7895.6	7881.2	7867.0
30°	7524.3	7510.0	7486.2	7519.6
32.5°	7062.7	7038.8	7019.9	7034.2
35°	6553.5	6539.2	6553.5	6543.9
37.5°	6087.1	6101.3	6120.4	6129.8
40°	5720.6	5772.9	5792.0	5801.4
42.5°	5354.2	5416.0	5454.1	5477.8
45°	4902.0	4963.8	5006.7	5035.3
47.5°	4435.6	4488.0	4530.7	4526.1
50°	4012.1	4040.6	4059.6	4078.7
52.5°	3583.6	3583.6	3588.4	3588.4
55°	3098.3	3088.7	3084.0	3088.7
57.5°	2565.2	2555.7	2551.0	2536.6
60°	2079.8	2051.3	2032.2	2032.2
62.5°	1627.6	1594.3	1580.1	1575.3
65°	1223.1	1218.3	1189.8	1185.0
67.5°	885.3	866.2	847.2	851.9
70°	623.5	594.9	594.9	585.4
72.5°	404.5	390.2	385.5	385.5
75°	252.2	252.2	242.7	261.8
77.5°	166.5	166.5	161.9	166.5
80°	99.9	99.9	99.9	95.1
82.5°	61.8	66.6	61.8	61.8
85°	33.3	38.1	28.5	42.9
87.5°	19.0	23.8	19.0	23.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)