

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: P248512

Luminaire Tested: **LSR8B150D010 EC8B150940 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248512
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 EC8B150940 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14780.0 lumens
Efficiency: N/A
Efficacy: 93.2 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

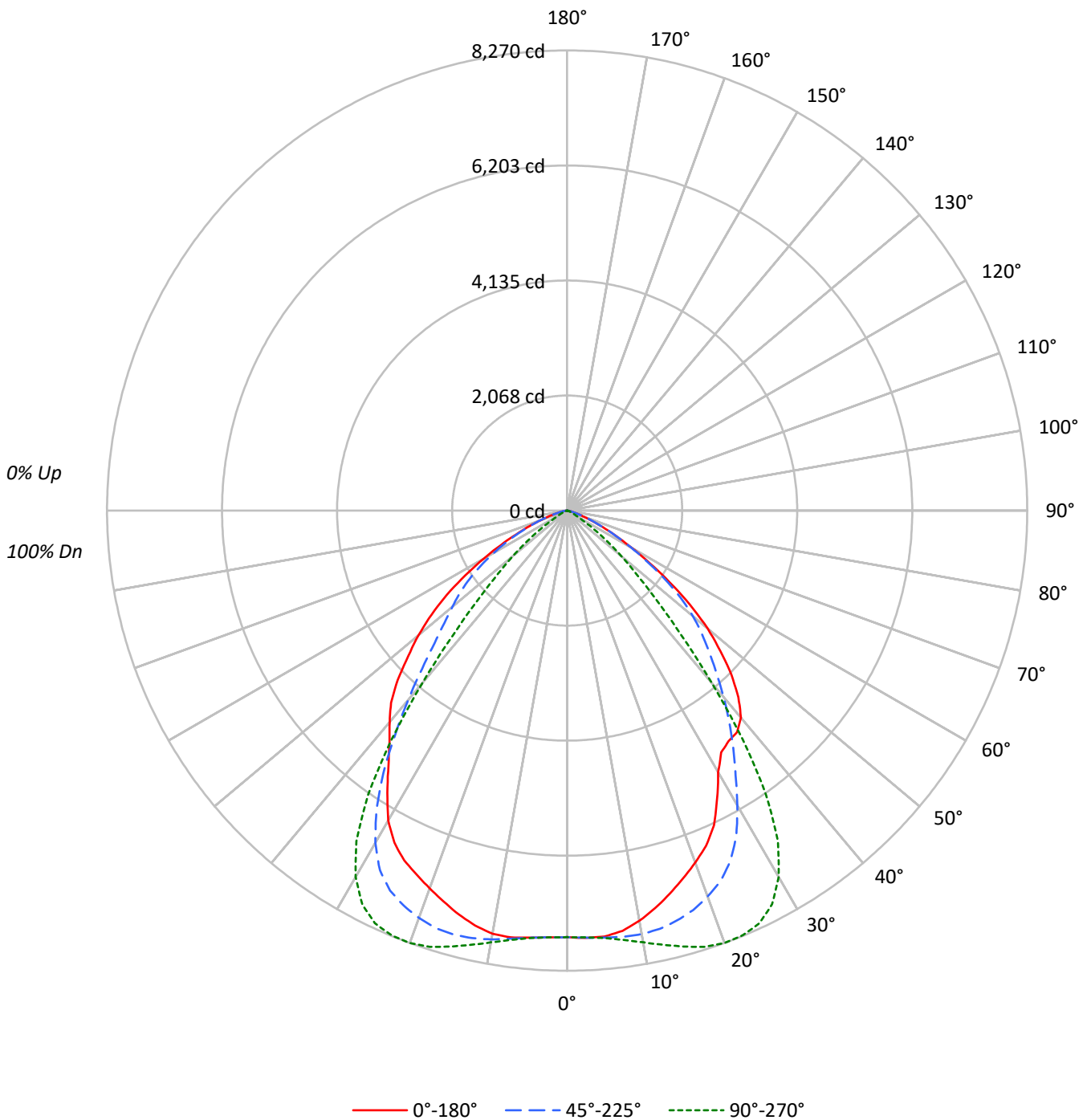
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	236431	236431	236431
5°	237842	238724	238470
10°	234345	246707	241867
15°	227494	258936	239967
20°	220893	271373	237051
25°	212413	278324	235950
30°	193309	270693	228958
35°	190431	234553	210653
40°	195606	162674	199700
45°	182094	98321	187772
50°	157946	60719	167319
55°	121211	31725	142000
60°	82573	12797	107175
65°	51367	6530	73935
70°	27886	4039	45134
75°	14547	1930	26676
80°	6499	2166	14455
85°	4316	1451	12949



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	737.4	5.0
10°-20°	2184.3	14.8
20°-30°	3332.4	22.5
30°-40°	3477.4	23.5
40°-50°	2612.0	17.7
50°-60°	1607.1	10.9
60°-70°	654.0	4.4
70°-80°	154.1	1.0
80°-90°	21.2	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°	6254.1	42.3
0°-40°	9731.5	65.8
0°-60°	13950.6	94.4
0°-90°	14780.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14780.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7667	7667	7667	7667	7667	
5°	7684	7704	7712	7704	7704	727
15°	7126	7627	8111	7887	7517	2007
25°	6243	6943	8180	7533	6935	2838
35°	5059	5201	6231	5759	5596	3194
45°	4176	3614	2255	3366	4306	3186
55°	2255	2141	590	2141	2641	2027
65°	704	712	90	956	1013	734
75°	122	122	16	216	224	147
85°	12	12	4	28	37	17
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°	7667.3	7667.3	7667.3	7667.3	7667.3	7667.3	7667.3	7667.3	7667.3	7667.3	7667.3
2.5°	7687.8	7675.5	7687.8	7687.8	7691.8	7683.7	7687.8	7691.8	7683.7	7683.7	7683.7
5°	7683.7	7675.5	7683.7	7679.6	7687.8	7687.8	7695.9	7695.9	7704.0	7704.0	7716.2
7.5°	7618.5	7602.3	7618.5	7630.8	7638.9	7655.2	7675.5	7691.8	7708.1	7724.4	7744.7
10°	7484.2	7484.2	7496.5	7520.9	7545.3	7573.7	7610.4	7651.1	7691.8	7728.4	7765.0
12.5°	7317.4	7305.2	7329.6	7362.1	7398.8	7443.6	7500.5	7561.6	7626.7	7699.9	7757.0
15°	7126.1	7113.9	7142.4	7174.9	7219.7	7284.9	7354.1	7435.4	7529.0	7626.7	7720.3
17.5°	6930.8	6926.7	6955.1	7000.0	7036.6	7105.7	7195.3	7292.9	7398.8	7529.0	7651.1
20°	6731.4	6727.3	6755.8	6792.4	6841.2	6906.4	6995.9	7109.8	7236.0	7382.5	7524.9
22.5°	6523.8	6527.9	6552.2	6593.0	6633.7	6702.8	6796.4	6910.4	7048.8	7207.5	7366.2
25°	6243.0	6222.6	6255.2	6295.9	6365.0	6422.0	6511.6	6633.7	6776.1	6943.0	7130.2
27.5°	5836.0	5831.9	5860.5	5897.0	5958.1	6027.3	6125.0	6251.1	6401.7	6584.8	6767.9
30°	5429.0	5437.2	5449.4	5486.0	5526.7	5595.9	5693.6	5799.4	5941.8	6116.8	6312.2
32.5°	5152.3	5152.3	5168.6	5193.0	5221.5	5258.1	5327.3	5404.6	5514.5	5636.6	5779.0
35°	5058.7	5042.4	5058.7	5062.7	5066.8	5075.0	5087.1	5111.6	5148.2	5201.1	5254.0
37.5°	5018.0	5005.8	5005.8	4989.5	4969.1	4944.7	4912.2	4875.5	4834.9	4781.9	4741.3
40°	4859.3	4851.1	4843.0	4826.7	4781.9	4733.1	4680.2	4594.7	4501.1	4370.9	4240.7
42.5°	4554.1	4545.9	4541.8	4509.3	4468.5	4411.6	4350.5	4261.0	4143.0	3976.1	3788.9
45°	4175.6	4159.2	4147.1	4118.6	4090.0	4041.2	3984.3	3902.8	3784.8	3613.9	3390.1
47.5°	3736.0	3727.9	3723.8	3711.6	3683.2	3654.6	3618.0	3552.9	3447.1	3284.2	3052.3
50°	3292.4	3276.2	3284.2	3280.3	3268.0	3247.7	3223.2	3178.5	3097.0	2950.5	2738.9
52.5°	2783.7	2783.7	2779.7	2791.8	2795.9	2791.8	2795.9	2747.1	2677.9	2568.0	2388.9
55°	2254.6	2254.6	2266.8	2283.2	2299.4	2303.5	2299.4	2279.1	2230.2	2140.7	1981.9
57.5°	1758.1	1750.0	1774.4	1798.8	1815.1	1831.4	1819.1	1802.9	1774.4	1701.1	1579.0
60°	1338.9	1338.9	1355.2	1371.5	1387.7	1404.1	1400.0	1395.9	1371.5	1322.6	1225.0
62.5°	984.8	988.9	988.9	1001.2	1017.4	1033.7	1045.9	1033.7	1021.5	988.9	923.8
65°	704.0	699.9	704.0	716.3	728.5	744.8	752.9	748.8	736.6	712.2	663.4
67.5°	472.1	468.0	484.3	488.3	496.5	512.8	508.8	512.8	508.8	488.3	447.7
70°	309.3	301.1	309.3	305.2	317.5	321.5	329.6	333.7	329.6	317.5	305.2
72.5°	191.3	187.2	191.3	195.4	199.5	203.4	211.6	211.6	207.5	199.5	183.1
75°	122.1	109.8	113.9	105.9	113.9	113.9	122.1	126.2	122.1	122.1	113.9
77.5°	73.3	73.3	73.3	73.3	73.3	73.3	73.3	77.4	81.4	73.3	69.2
80°	36.6	36.6	40.7	40.7	40.7	44.8	40.7	40.7	40.7	44.8	32.6
82.5°	28.5	24.4	24.4	24.4	28.5	24.4	24.4	24.4	24.4	24.4	24.4
85°	12.2	16.2	12.2	8.2	12.2	12.2	16.2	12.2	12.2	12.2	16.2
87.5°	4.1	4.1	0.0	0.0	0.0	4.1	0.0	4.1	4.1	8.2	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°	7667.3	7667.3	7667.3	7667.3	7667.3	7667.3	7667.3	7667.3	7667.3	7667.3	7667.3
2.5°	7687.8	7679.6	7679.6	7675.5	7683.7	7675.5	7679.6	7675.5	7675.5	7683.7	7675.5
5°	7716.2	7720.3	7712.2	7708.1	7720.3	7720.3	7720.3	7712.2	7712.2	7716.2	7712.2
7.5°	7757.0	7765.0	7769.1	7773.2	7781.4	7785.4	7785.4	7781.4	7777.3	7789.5	7773.2
10°	7801.7	7813.9	7838.3	7850.6	7870.9	7870.9	7879.0	7879.0	7870.9	7879.0	7875.0
12.5°	7785.4	7858.6	7899.4	7927.8	7956.3	7980.7	7988.9	7993.0	7988.9	8005.2	7988.9
15°	7813.9	7875.0	7940.1	7988.9	8041.8	8070.2	8078.4	8111.0	8119.1	8123.2	8098.8
17.5°	7769.1	7879.0	7948.2	8021.4	8098.8	8151.7	8200.5	8220.9	8225.0	8233.1	8200.5
20°	7667.3	7789.5	7895.3	8001.1	8090.7	8172.0	8212.7	8269.7	8253.5	8286.0	8241.2
22.5°	7529.0	7667.3	7801.7	7940.1	8033.7	8131.4	8216.8	8257.5	8277.9	8277.9	8229.0
25°	7309.3	7472.1	7618.5	7760.9	7903.4	8021.4	8119.1	8180.2	8192.4	8188.3	8131.4
27.5°	6967.4	7142.4	7313.3	7476.1	7651.1	7789.5	7903.4	7976.6	7997.0	7997.0	7936.0
30°	6495.3	6682.5	6849.4	7044.7	7223.8	7378.5	7537.2	7602.3	7638.9	7638.9	7569.8
32.5°	5933.7	6092.4	6247.0	6438.3	6633.7	6808.7	6959.2	7048.8	7093.6	7089.5	7028.4
35°	5323.2	5400.5	5518.6	5661.0	5836.0	5998.8	6145.3	6230.8	6308.1	6304.0	6247.0
37.5°	4712.7	4692.4	4704.6	4757.5	4867.4	4981.4	5095.3	5176.8	5241.8	5270.4	5258.1
40°	4114.5	4008.7	3906.9	3870.4	3878.4	3919.2	3980.2	4041.2	4114.5	4151.2	4167.4
42.5°	3577.3	3398.3	3219.1	3084.9	3007.5	2983.1	3011.6	3031.9	3076.7	3129.6	3182.6
45°	3145.9	2905.8	2669.7	2462.2	2332.0	2254.6	2238.4	2254.6	2279.1	2332.0	2401.2
47.5°	2791.8	2511.0	2246.5	2014.5	1823.2	1721.5	1693.1	1684.9	1709.3	1758.1	1851.7
50°	2478.4	2197.6	1904.7	1636.0	1436.6	1322.6	1282.0	1265.7	1294.1	1330.8	1416.2
52.5°	2136.6	1859.9	1558.7	1298.2	1090.7	972.7	927.9	903.5	919.7	968.6	1054.1
55°	1766.2	1509.8	1237.2	968.6	769.2	659.3	606.3	590.1	606.3	659.3	744.8
57.5°	1395.9	1180.2	952.3	699.9	520.9	411.1	358.1	341.9	386.7	407.0	496.5
60°	1090.7	915.7	720.4	512.8	358.1	272.7	219.8	207.5	227.9	264.5	337.8
62.5°	818.0	708.1	553.5	366.3	264.5	175.0	146.5	134.3	146.5	175.0	232.0
65°	594.2	508.8	386.7	268.6	179.0	130.2	97.7	89.5	101.8	122.1	171.0
67.5°	407.0	341.9	268.6	187.2	122.1	81.4	69.2	69.2	73.3	89.5	126.2
70°	264.5	223.9	171.0	122.1	81.4	61.0	52.9	44.8	52.9	65.1	85.4
72.5°	166.9	142.4	109.8	85.4	61.0	44.8	36.6	32.6	40.7	48.8	65.1
75°	101.8	77.4	57.0	44.8	32.6	32.6	32.6	16.2	20.3	32.6	40.7
77.5°	61.0	52.9	44.8	36.6	28.5	16.2	16.2	16.2	20.3	24.4	36.6
80°	32.6	28.5	20.3	20.3	16.2	12.2	16.2	12.2	8.2	20.3	24.4
82.5°	20.3	16.2	16.2	16.2	20.3	8.2	12.2	8.2	12.2	16.2	12.2
85°	12.2	12.2	12.2	8.2	20.3	8.2	8.2	4.1	4.1	8.2	8.2
87.5°	0.0	4.1	4.1	0.0	4.1	0.0	4.1	4.1	4.1	4.1	4.1
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°	7667.3	7667.3	7667.3	7667.3	7667.3	7667.3	7667.3	7667.3	7667.3	7667.3	7667.3
2.5°	7679.6	7675.5	7679.6	7675.5	7675.5	7675.5	7679.6	7679.6	7675.5	7675.5	7683.7
5°	7712.2	7712.2	7712.2	7708.1	7704.0	7704.0	7712.2	7712.2	7699.9	7712.2	7712.2
7.5°	7781.4	7769.1	7781.4	7765.0	7757.0	7760.9	7765.0	7757.0	7748.8	7752.9	7752.9
10°	7870.9	7858.6	7858.6	7846.5	7834.2	7826.1	7818.0	7797.6	7777.3	7773.2	7757.0
12.5°	7976.6	7956.3	7944.2	7919.7	7899.4	7870.9	7846.5	7813.9	7773.2	7744.7	7716.2
15°	8082.5	8049.9	8021.4	7980.7	7936.0	7887.1	7834.2	7781.4	7716.2	7659.3	7610.4
17.5°	8167.9	8123.2	8070.2	8005.2	7940.1	7866.8	7789.5	7712.2	7618.5	7545.3	7488.3
20°	8196.4	8131.4	8062.2	7976.6	7891.2	7789.5	7691.8	7590.1	7484.2	7406.9	7341.8
22.5°	8159.9	8082.5	7997.0	7907.5	7793.5	7683.7	7569.8	7451.7	7358.0	7252.3	7191.2
25°	8058.1	7964.5	7870.9	7765.0	7655.2	7533.1	7411.0	7288.9	7174.9	7118.0	7040.7
27.5°	7850.6	7748.8	7647.0	7537.2	7411.0	7288.9	7162.8	7044.7	6947.1	6869.7	6825.0
30°	7484.2	7366.2	7248.2	7130.2	7020.3	6894.1	6776.1	6678.4	6580.7	6519.7	6475.0
32.5°	6922.6	6816.8	6698.8	6584.8	6483.1	6377.3	6279.6	6194.2	6125.0	6084.2	6051.7
35°	6165.7	6059.8	5970.3	5888.9	5803.4	5758.7	5697.7	5648.8	5620.3	5604.0	5600.0
37.5°	5213.3	5152.3	5123.8	5107.5	5091.2	5079.1	5087.1	5107.5	5123.8	5152.3	5184.8
40°	4195.9	4248.8	4265.1	4322.1	4374.9	4444.1	4521.5	4611.0	4684.2	4777.8	4843.0
42.5°	3268.0	3365.7	3479.6	3601.7	3731.9	3858.1	4012.8	4155.2	4285.4	4403.4	4505.2
45°	2511.0	2661.6	2832.5	3007.5	3182.6	3365.7	3552.9	3727.9	3882.5	4008.7	4114.5
47.5°	1957.5	2124.4	2344.2	2559.9	2771.5	2987.2	3194.7	3377.8	3508.1	3630.2	3723.8
50°	1550.6	1741.8	1981.9	2230.2	2462.2	2690.0	2909.8	3080.8	3211.0	3308.7	3377.8
52.5°	1200.5	1428.5	1672.6	1933.1	2181.4	2429.6	2633.1	2791.8	2897.7	2983.1	3036.0
55°	895.3	1119.2	1379.7	1648.2	1900.6	2140.7	2332.0	2470.4	2564.0	2612.8	2641.3
57.5°	647.1	850.6	1111.0	1379.7	1607.5	1835.5	1990.1	2116.3	2169.1	2197.6	2209.9
60°	472.1	659.3	891.2	1123.3	1338.9	1522.1	1656.4	1741.8	1782.6	1798.8	1794.7
62.5°	345.9	508.8	708.1	903.5	1078.5	1229.0	1334.9	1391.8	1412.2	1420.3	1408.2
65°	264.5	390.7	561.6	712.2	846.5	956.4	1033.7	1070.4	1082.5	1078.5	1070.4
67.5°	195.4	293.1	419.2	533.1	630.8	716.3	757.0	789.6	797.6	785.5	773.2
70°	138.4	215.7	305.2	382.6	455.8	504.7	549.4	553.5	553.5	549.4	541.3
72.5°	97.7	150.6	207.5	260.5	305.2	341.9	358.1	370.3	366.3	362.2	354.1
75°	65.1	93.6	150.6	162.8	203.4	215.7	232.0	232.0	236.0	223.9	223.9
77.5°	40.7	65.1	89.5	105.9	122.1	138.4	146.5	146.5	150.6	146.5	146.5
80°	24.4	40.7	48.8	73.3	73.3	85.4	89.5	93.6	85.4	97.7	85.4
82.5°	16.2	24.4	36.6	36.6	44.8	52.9	52.9	57.0	57.0	52.9	52.9
85°	12.2	16.2	20.3	24.4	24.4	28.5	24.4	24.4	28.5	32.6	28.5
87.5°	4.1	8.2	4.1	8.2	8.2	16.2	12.2	12.2	12.2	16.2	16.2
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: P248512

CATALOG NUMBER: LSR8B150D010 EC8B150940 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	7667.3	7667.3	7667.3	7667.3
2.5°	7675.5	7679.6	7675.5	7675.5
5°	7712.2	7708.1	7712.2	7704.0
7.5°	7740.6	7740.6	7736.6	7736.6
10°	7740.6	7724.4	7724.4	7724.4
12.5°	7679.6	7659.3	7647.0	7638.9
15°	7573.7	7537.2	7520.9	7516.8
17.5°	7435.4	7402.9	7382.5	7370.3
20°	7276.7	7244.1	7219.7	7223.8
22.5°	7138.3	7101.7	7085.4	7077.2
25°	7000.0	6955.1	6943.0	6934.8
27.5°	6776.1	6751.7	6739.5	6727.3
30°	6434.2	6422.0	6401.7	6430.2
32.5°	6039.5	6019.1	6002.9	6015.1
35°	5604.0	5591.8	5604.0	5595.9
37.5°	5205.2	5217.4	5233.7	5241.8
40°	4891.9	4936.6	4952.9	4961.0
42.5°	4578.5	4631.4	4663.9	4684.2
45°	4191.8	4244.7	4281.3	4305.8
47.5°	3793.0	3837.8	3874.4	3870.4
50°	3430.8	3455.2	3471.5	3487.8
52.5°	3064.5	3064.5	3068.6	3068.6
55°	2649.4	2641.3	2637.2	2641.3
57.5°	2193.5	2185.5	2181.4	2169.1
60°	1778.5	1754.1	1737.8	1737.8
62.5°	1391.8	1363.3	1351.2	1347.1
65°	1045.9	1041.8	1017.4	1013.3
67.5°	757.0	740.7	724.4	728.5
70°	533.1	508.8	508.8	500.6
72.5°	345.9	333.7	329.6	329.6
75°	215.7	215.7	207.5	223.9
77.5°	142.4	142.4	138.4	142.4
80°	85.4	85.4	85.4	81.4
82.5°	52.9	57.0	52.9	52.9
85°	28.5	32.6	24.4	36.6
87.5°	16.2	20.3	16.2	20.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)