

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: P248332

Luminaire Tested: **LSR8B150D010 EC8B150827 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248332
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 EC8B150827 8LBDWOLI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16008.0 lumens
Efficiency: N/A
Efficacy: 101.0 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

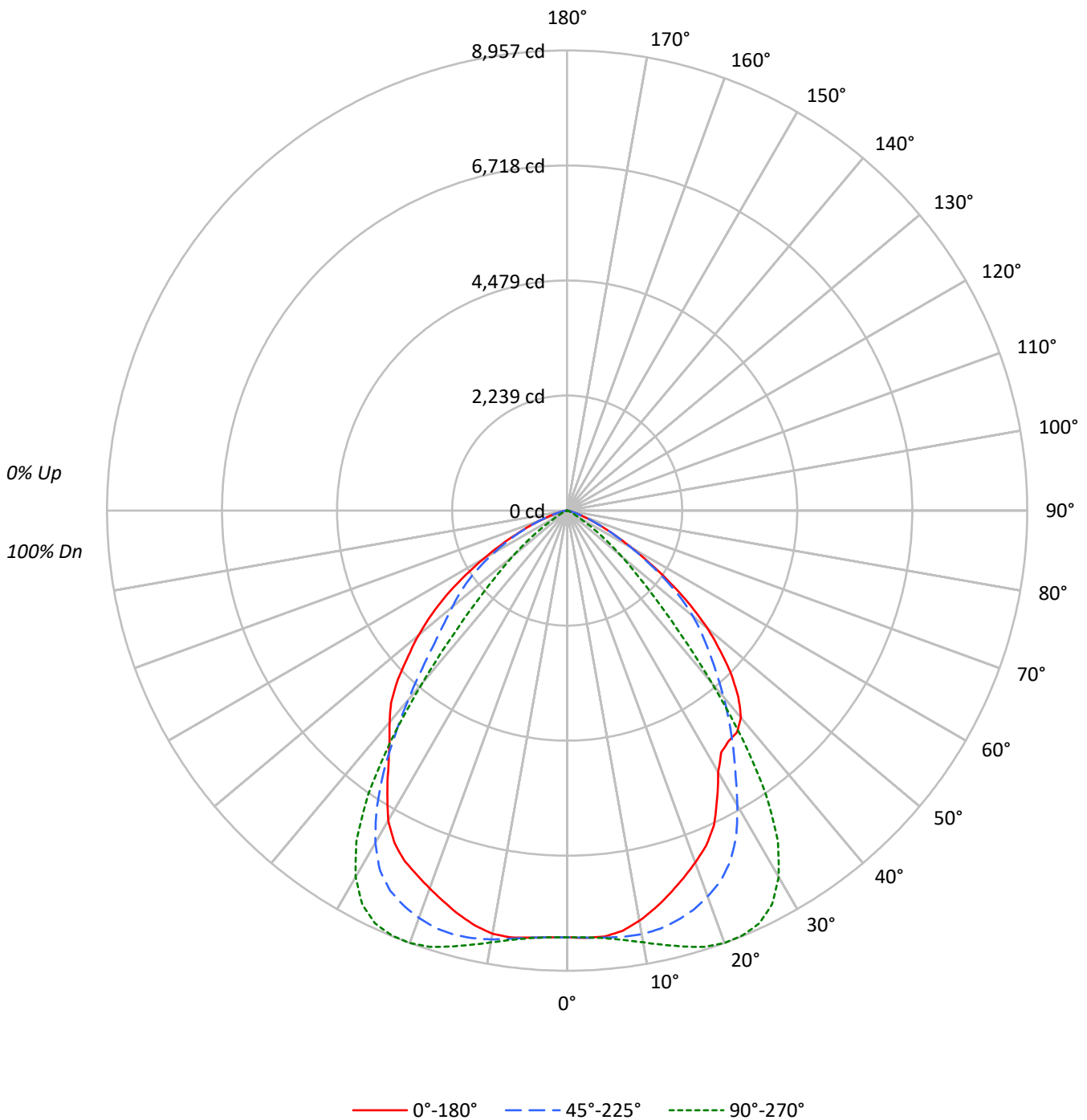
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	256077	256077	256077
5°	257603	258557	258284
10°	253815	267207	261963
15°	246397	280450	259904
20°	239247	293920	256747
25°	230061	301447	255555
30°	209371	293186	247979
35°	206253	254042	228154
40°	211857	176192	216288
45°	197222	106489	203376
50°	171071	65761	181222
55°	131280	34359	153795
60°	89438	13864	116074
65°	55636	7078	80079
70°	30203	4373	48884
75°	15751	2097	28892
80°	7050	2362	15645
85°	4706	1557	14046



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	798.6	5.0
10°-20°	2365.8	14.8
20°-30°	3609.3	22.5
30°-40°	3766.4	23.5
40°-50°	2829.0	17.7
50°-60°	1740.6	10.9
60°-70°	708.4	4.4
70°-80°	166.9	1.0
80°-90°	23.0	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°	6773.7	42.3
0°-40°	10540.1	65.8
0°-60°	15109.7	94.4
0°-90°	16008.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16008.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8304	8304	8304	8304	8304	
5°	8322	8344	8353	8344	8344	787
15°	7718	8260	8785	8542	8141	2174
25°	6762	7520	8860	8159	7511	3074
35°	5479	5633	6748	6237	6061	3459
45°	4522	3914	2442	3645	4664	3450
55°	2442	2318	639	2318	2861	2195
65°	762	771	97	1036	1098	795
75°	132	132	18	234	242	159
85°	13	13	4	31	40	19
90°	0	0	0	0	0	



TEST NUMBER: P248332

CATALOG NUMBER: LSR8B150D010 EC8B150827 8LBDWOLI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	8304.4	8304.4	8304.4	8304.4	8304.4	8304.4	8304.4	8304.4	8304.4	8304.4	8304.4
2.5°	8326.5	8313.2	8326.5	8326.5	8330.9	8322.1	8326.5	8330.9	8322.1	8322.1	8322.1
5°	8322.1	8313.2	8322.1	8317.7	8326.5	8326.5	8335.3	8335.3	8344.1	8344.1	8357.3
7.5°	8251.5	8234.0	8251.5	8264.8	8273.5	8291.2	8313.2	8330.9	8348.5	8366.2	8388.2
10°	8106.0	8106.0	8119.3	8145.7	8172.2	8203.0	8242.7	8286.8	8330.9	8370.5	8410.2
12.5°	7925.4	7912.1	7938.5	7973.8	8013.5	8062.0	8123.7	8189.8	8260.4	8339.7	8401.5
15°	7718.2	7704.9	7735.8	7771.1	7819.6	7890.1	7965.1	8053.2	8154.6	8260.4	8361.8
17.5°	7506.6	7502.2	7533.0	7581.6	7621.2	7696.1	7793.2	7898.9	8013.5	8154.6	8286.8
20°	7290.7	7286.2	7317.1	7356.8	7409.6	7480.2	7577.1	7700.5	7837.2	7995.9	8150.2
22.5°	7065.8	7070.2	7096.6	7140.8	7184.9	7259.7	7361.1	7484.6	7634.4	7806.3	7978.2
25°	6761.7	6739.6	6774.9	6819.0	6893.9	6955.6	7052.6	7184.9	7339.1	7519.9	7722.6
27.5°	6320.9	6316.4	6347.4	6387.0	6453.1	6528.0	6633.8	6770.5	6933.6	7131.9	7330.3
30°	5880.1	5888.9	5902.2	5941.9	5985.9	6060.8	6166.6	6281.3	6435.5	6625.0	6836.6
32.5°	5580.3	5580.3	5598.0	5624.4	5655.3	5695.0	5769.9	5853.6	5972.7	6104.9	6259.2
35°	5479.0	5461.4	5479.0	5483.4	5487.8	5496.6	5509.8	5536.3	5575.9	5633.3	5690.6
37.5°	5434.9	5421.7	5421.7	5404.1	5382.0	5355.6	5320.3	5280.6	5236.6	5179.2	5135.2
40°	5263.0	5254.2	5245.3	5227.8	5179.2	5126.4	5069.0	4976.5	4875.1	4734.0	4593.0
42.5°	4932.5	4923.6	4919.2	4883.9	4839.8	4778.1	4712.0	4615.0	4487.2	4306.5	4103.7
45°	4522.5	4504.8	4491.7	4460.8	4429.9	4377.0	4315.3	4227.1	4099.3	3914.2	3671.8
47.5°	4046.4	4037.6	4033.2	4020.0	3989.2	3958.2	3918.6	3848.1	3733.5	3557.1	3305.9
50°	3566.0	3548.4	3557.1	3552.8	3539.5	3517.5	3491.0	3442.6	3354.3	3195.7	2966.5
52.5°	3014.9	3014.9	3010.6	3023.8	3028.2	3023.8	3028.2	2975.3	2900.4	2781.3	2587.4
55°	2441.9	2441.9	2455.2	2472.9	2490.4	2494.9	2490.4	2468.4	2415.5	2318.5	2146.6
57.5°	1904.2	1895.4	1921.8	1948.3	1965.9	1983.5	1970.3	1952.7	1921.8	1842.5	1710.2
60°	1450.2	1450.2	1467.8	1485.5	1503.0	1520.7	1516.3	1511.9	1485.5	1432.5	1326.8
62.5°	1066.7	1071.1	1071.1	1084.4	1101.9	1119.6	1132.8	1119.6	1106.4	1071.1	1000.6
65°	762.5	758.1	762.5	775.8	789.1	806.6	815.5	811.1	797.8	771.4	718.5
67.5°	511.3	506.9	524.5	528.9	537.8	555.4	551.0	555.4	551.0	528.9	484.9
70°	335.0	326.2	335.0	330.6	343.8	348.3	357.0	361.4	357.0	343.8	330.6
72.5°	207.2	202.8	207.2	211.6	216.0	220.3	229.2	229.2	224.8	216.0	198.3
75°	132.2	119.0	123.4	114.6	123.4	123.4	132.2	136.6	132.2	132.2	123.4
77.5°	79.4	79.4	79.4	79.4	79.4	79.4	79.4	83.8	88.1	79.4	75.0
80°	39.7	39.7	44.1	44.1	44.1	48.5	44.1	44.1	44.1	48.5	35.3
82.5°	30.8	26.4	26.4	26.4	30.8	26.4	26.4	26.4	26.4	26.4	26.4
85°	13.3	17.6	13.3	8.8	13.3	13.3	17.6	13.3	13.3	13.3	17.6
87.5°	4.4	4.4	0.0	0.0	0.0	4.4	0.0	4.4	4.4	8.8	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: P248332

CATALOG NUMBER: LSR8B150D010 EC8B150827 8LBDWOLI

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	8304.4	8304.4	8304.4	8304.4	8304.4	8304.4	8304.4	8304.4	8304.4	8304.4	8304.4
2.5°	8326.5	8317.7	8317.7	8313.2	8322.1	8313.2	8317.7	8313.2	8313.2	8322.1	8313.2
5°	8357.3	8361.8	8352.9	8348.5	8361.8	8361.8	8361.8	8352.9	8352.9	8357.3	8352.9
7.5°	8401.5	8410.2	8414.6	8419.0	8427.9	8432.3	8432.3	8427.9	8423.5	8436.7	8419.0
10°	8449.9	8463.1	8489.6	8502.8	8524.8	8524.8	8533.7	8533.7	8524.8	8533.7	8529.3
12.5°	8432.3	8511.6	8555.7	8586.5	8617.4	8643.8	8652.6	8657.1	8652.6	8670.3	8652.6
15°	8463.1	8529.3	8599.8	8652.6	8709.9	8740.8	8749.6	8784.9	8793.7	8798.1	8771.7
17.5°	8414.6	8533.7	8608.5	8687.9	8771.7	8829.0	8881.8	8903.9	8908.4	8917.1	8881.8
20°	8304.4	8436.7	8551.3	8665.9	8762.9	8851.0	8895.1	8956.8	8939.2	8974.5	8925.9
22.5°	8154.6	8304.4	8449.9	8599.8	8701.2	8807.0	8899.5	8943.5	8965.6	8965.6	8912.7
25°	7916.5	8092.9	8251.5	8405.8	8560.1	8687.9	8793.7	8859.8	8873.1	8868.7	8807.0
27.5°	7546.3	7735.8	7921.0	8097.3	8286.8	8436.7	8560.1	8639.4	8661.5	8661.5	8595.4
30°	7035.0	7237.7	7418.5	7630.0	7824.0	7991.5	8163.4	8234.0	8273.5	8273.5	8198.7
32.5°	6426.7	6598.6	6766.1	6973.3	7184.9	7374.4	7537.4	7634.4	7682.9	7678.5	7612.4
35°	5765.5	5849.2	5977.1	6131.4	6320.9	6497.2	6655.8	6748.5	6832.2	6827.8	6766.1
37.5°	5104.3	5082.3	5095.5	5152.8	5271.8	5395.3	5518.6	5606.9	5677.3	5708.2	5695.0
40°	4456.4	4341.7	4231.5	4191.9	4200.7	4244.8	4310.9	4377.0	4456.4	4496.1	4513.7
42.5°	3874.5	3680.6	3486.6	3341.2	3257.4	3231.0	3261.8	3283.8	3332.3	3389.6	3447.0
45°	3407.3	3147.3	2891.5	2666.8	2525.7	2441.9	2424.3	2441.9	2468.4	2525.7	2600.7
47.5°	3023.8	2719.6	2433.2	2181.9	1974.7	1864.6	1833.7	1824.9	1851.3	1904.2	2005.5
50°	2684.4	2380.2	2062.9	1771.9	1556.0	1432.5	1388.5	1370.8	1401.7	1441.4	1533.9
52.5°	2314.1	2014.4	1688.2	1406.1	1181.3	1053.5	1005.0	978.6	996.1	1049.1	1141.6
55°	1913.0	1635.3	1340.0	1049.1	833.1	714.1	656.7	639.1	656.7	714.1	806.6
57.5°	1511.9	1278.3	1031.4	758.1	564.2	445.2	387.8	370.3	418.8	440.8	537.8
60°	1181.3	991.8	780.2	555.4	387.8	295.3	238.0	224.8	246.9	286.5	365.8
62.5°	886.0	766.9	599.4	396.7	286.5	189.5	158.7	145.5	158.7	189.5	251.3
65°	643.6	551.0	418.8	290.9	193.9	141.1	105.8	97.0	110.2	132.2	185.2
67.5°	440.8	370.3	290.9	202.8	132.2	88.1	75.0	75.0	79.4	97.0	136.6
70°	286.5	242.5	185.2	132.2	88.1	66.1	57.3	48.5	57.3	70.5	92.5
72.5°	180.8	154.2	119.0	92.5	66.1	48.5	39.7	35.3	44.1	52.9	70.5
75°	110.2	83.8	61.7	48.5	35.3	35.3	35.3	17.6	22.0	35.3	44.1
77.5°	66.1	57.3	48.5	39.7	30.8	17.6	17.6	17.6	22.0	26.4	39.7
80°	35.3	30.8	22.0	22.0	17.6	13.3	17.6	13.3	8.8	22.0	26.4
82.5°	22.0	17.6	17.6	17.6	22.0	8.8	13.3	8.8	13.3	17.6	13.3
85°	13.3	13.3	13.3	8.8	22.0	8.8	8.8	4.4	4.4	8.8	8.8
87.5°	0.0	4.4	4.4	0.0	4.4	0.0	4.4	4.4	4.4	4.4	4.4
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: P248332

CATALOG NUMBER: LSR8B150D010 EC8B150827 8LBDWOLI

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	8304.4	8304.4	8304.4	8304.4	8304.4	8304.4	8304.4	8304.4	8304.4	8304.4	8304.4
2.5°	8317.7	8313.2	8317.7	8313.2	8313.2	8313.2	8317.7	8317.7	8313.2	8313.2	8322.1
5°	8352.9	8352.9	8352.9	8348.5	8344.1	8344.1	8352.9	8352.9	8339.7	8352.9	8352.9
7.5°	8427.9	8414.6	8427.9	8410.2	8401.5	8405.8	8410.2	8401.5	8392.6	8397.0	8397.0
10°	8524.8	8511.6	8511.6	8498.4	8485.1	8476.3	8467.6	8445.5	8423.5	8419.0	8401.5
12.5°	8639.4	8617.4	8604.2	8577.7	8555.7	8524.8	8498.4	8463.1	8419.0	8388.2	8357.3
15°	8754.0	8718.8	8687.9	8643.8	8595.4	8542.4	8485.1	8427.9	8357.3	8295.6	8242.7
17.5°	8846.6	8798.1	8740.8	8670.3	8599.8	8520.4	8436.7	8352.9	8251.5	8172.2	8110.5
20°	8877.4	8807.0	8732.0	8639.4	8546.8	8436.7	8330.9	8220.7	8106.0	8022.3	7951.8
22.5°	8837.8	8754.0	8661.5	8564.5	8441.0	8322.1	8198.7	8070.8	7969.4	7854.9	7788.7
25°	8727.6	8626.2	8524.8	8410.2	8291.2	8159.0	8026.8	7894.5	7771.1	7709.4	7625.7
27.5°	8502.8	8392.6	8282.4	8163.4	8026.8	7894.5	7757.9	7630.0	7524.3	7440.5	7392.1
30°	8106.0	7978.2	7850.4	7722.6	7603.6	7466.9	7339.1	7233.3	7127.5	7061.4	7012.9
32.5°	7497.8	7383.2	7255.4	7131.9	7021.8	6907.1	6801.3	6708.8	6633.8	6589.7	6554.5
35°	6678.0	6563.3	6466.3	6378.2	6285.6	6237.2	6171.0	6118.1	6087.2	6069.7	6065.2
37.5°	5646.4	5580.3	5549.5	5531.9	5514.2	5501.1	5509.8	5531.9	5549.5	5580.3	5615.6
40°	4544.5	4601.8	4619.5	4681.2	4738.4	4813.4	4897.2	4994.1	5073.4	5174.8	5245.3
42.5°	3539.5	3645.3	3768.7	3900.9	4042.0	4178.7	4346.2	4500.4	4641.5	4769.3	4879.5
45°	2719.6	2882.7	3067.9	3257.4	3447.0	3645.3	3848.1	4037.6	4205.1	4341.7	4456.4
47.5°	2120.2	2300.9	2539.0	2772.6	3001.8	3235.4	3460.2	3658.5	3799.6	3931.8	4033.2
50°	1679.4	1886.6	2146.6	2415.5	2666.8	2913.6	3151.6	3336.8	3477.8	3583.6	3658.5
52.5°	1300.3	1547.2	1811.6	2093.8	2362.6	2631.5	2851.9	3023.8	3138.4	3231.0	3288.2
55°	969.7	1212.2	1494.3	1785.2	2058.5	2318.5	2525.7	2675.6	2777.0	2829.9	2860.7
57.5°	700.8	921.3	1203.3	1494.3	1741.1	1988.0	2155.4	2292.1	2349.4	2380.2	2393.5
60°	511.3	714.1	965.3	1216.6	1450.2	1648.5	1794.0	1886.6	1930.7	1948.3	1943.8
62.5°	374.7	551.0	766.9	978.6	1168.1	1331.1	1445.8	1507.5	1529.6	1538.3	1525.2
65°	286.5	423.1	608.3	771.4	916.9	1035.8	1119.6	1159.3	1172.5	1168.1	1159.3
67.5°	211.6	317.4	454.1	577.4	683.2	775.8	819.9	855.2	863.9	850.7	837.5
70°	149.9	233.6	330.6	414.4	493.6	546.6	595.0	599.4	599.4	595.0	586.3
72.5°	105.8	163.1	224.8	282.1	330.6	370.3	387.8	401.1	396.7	392.3	383.5
75°	70.5	101.4	163.1	176.3	220.3	233.6	251.3	251.3	255.6	242.5	242.5
77.5°	44.1	70.5	97.0	114.6	132.2	149.9	158.7	158.7	163.1	158.7	158.7
80°	26.4	44.1	52.9	79.4	79.4	92.5	97.0	101.4	92.5	105.8	92.5
82.5°	17.6	26.4	39.7	39.7	48.5	57.3	57.3	61.7	61.7	57.3	57.3
85°	13.3	17.6	22.0	26.4	26.4	30.8	26.4	26.4	30.8	35.3	30.8
87.5°	4.4	8.8	4.4	8.8	8.8	17.6	13.3	13.3	13.3	17.6	17.6
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: P248332

CATALOG NUMBER: LSR8B150D010 EC8B150827 8LBDWOLI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	8304.4	8304.4	8304.4	8304.4
2.5°	8313.2	8317.7	8313.2	8313.2
5°	8352.9	8348.5	8352.9	8344.1
7.5°	8383.8	8383.8	8379.3	8379.3
10°	8383.8	8366.2	8366.2	8366.2
12.5°	8317.7	8295.6	8282.4	8273.5
15°	8203.0	8163.4	8145.7	8141.3
17.5°	8053.2	8017.9	7995.9	7982.7
20°	7881.3	7846.0	7819.6	7824.0
22.5°	7731.4	7691.8	7674.1	7665.2
25°	7581.6	7533.0	7519.9	7511.0
27.5°	7339.1	7312.7	7299.4	7286.2
30°	6968.8	6955.6	6933.6	6964.4
32.5°	6541.3	6519.2	6501.6	6514.9
35°	6069.7	6056.4	6069.7	6060.8
37.5°	5637.7	5650.9	5668.6	5677.3
40°	5298.3	5346.7	5364.4	5373.1
42.5°	4958.9	5016.2	5051.4	5073.4
45°	4540.1	4597.4	4637.0	4663.6
47.5°	4108.1	4156.7	4196.3	4191.9
50°	3715.9	3742.3	3759.9	3777.6
52.5°	3319.1	3319.1	3323.5	3323.5
55°	2869.5	2860.7	2856.3	2860.7
57.5°	2375.8	2367.1	2362.6	2349.4
60°	1926.3	1899.8	1882.1	1882.1
62.5°	1507.5	1476.6	1463.5	1459.0
65°	1132.8	1128.4	1101.9	1097.5
67.5°	819.9	802.2	784.6	789.1
70°	577.4	551.0	551.0	542.2
72.5°	374.7	361.4	357.0	357.0
75°	233.6	233.6	224.8	242.5
77.5°	154.2	154.2	149.9	154.2
80°	92.5	92.5	92.5	88.1
82.5°	57.3	61.7	57.3	57.3
85°	30.8	35.3	26.4	39.7
87.5°	17.6	22.0	17.6	22.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)