

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: P248341

Luminaire Tested: **LSR8B150D010 EC8B150830 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248341
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 EC8B150830 8LBDWOLI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16409.0 lumens
Efficiency: N/A
Efficacy: 103.5 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

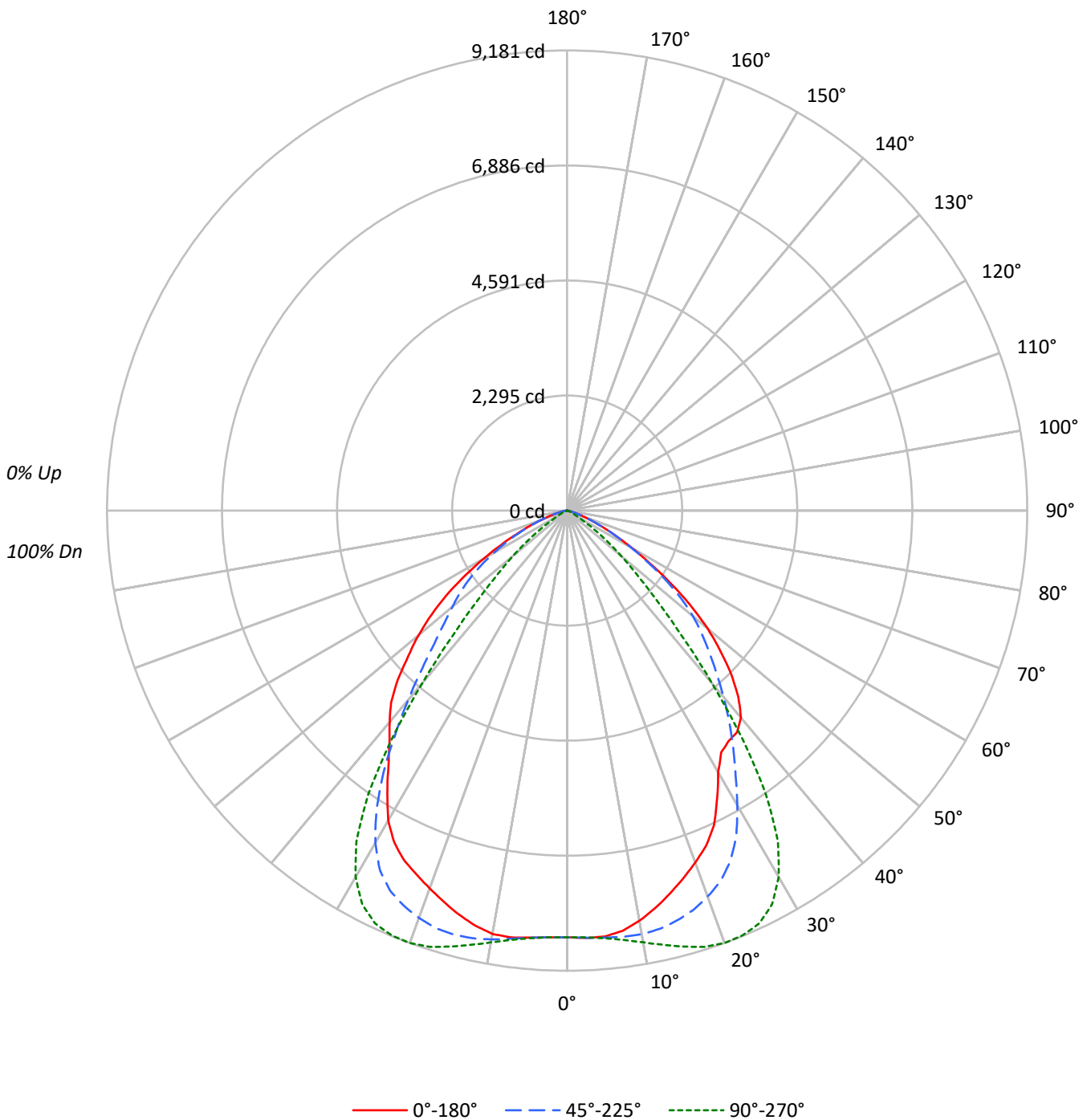
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	262491	262491	262491
5°	264054	265035	264754
10°	260175	273899	268526
15°	252568	287473	266416
20°	245239	301284	263179
25°	235821	309000	261958
30°	214616	300528	254193
35°	211417	260404	233868
40°	217166	180607	221707
45°	202163	109158	208469
50°	175355	67411	185760
55°	134570	35219	157650
60°	91676	14209	118985
65°	57029	7253	82086
70°	30961	4481	50111
75°	16144	2145	29607
80°	7227	2415	16035
85°	4812	1592	14400



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	818.6	5.0
10°-20°	2425.1	14.8
20°-30°	3699.7	22.5
30°-40°	3860.7	23.5
40°-50°	2899.9	17.7
50°-60°	1784.2	10.9
60°-70°	726.1	4.4
70°-80°	171.1	1.0
80°-90°	23.6	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°	6943.4	42.3
0°-40°	10804.1	65.8
0°-60°	15488.2	94.4
0°-90°	16409.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16409.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8512	8512	8512	8512	8512	
5°	8530	8553	8562	8553	8553	807
15°	7912	8467	9005	8756	8345	2229
25°	6931	7708	9082	8363	7699	3151
35°	5616	5774	6918	6393	6213	3546
45°	4636	4012	2503	3737	4780	3537
55°	2503	2377	655	2377	2932	2250
65°	782	791	99	1062	1125	815
75°	136	136	18	240	248	163
85°	14	14	4	32	41	19
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°	8512.4	8512.4	8512.4	8512.4	8512.4	8512.4	8512.4	8512.4	8512.4	8512.4	8512.4
2.5°	8535.1	8521.5	8535.1	8535.1	8539.6	8530.5	8535.1	8539.6	8530.5	8530.5	8530.5
5°	8530.5	8521.5	8530.5	8526.0	8535.1	8535.1	8544.1	8544.1	8553.1	8553.1	8566.7
7.5°	8458.2	8440.2	8458.2	8471.8	8480.8	8498.9	8521.5	8539.6	8557.6	8575.8	8598.3
10°	8309.1	8309.1	8322.7	8349.8	8376.9	8408.5	8449.2	8494.4	8539.6	8580.2	8620.9
12.5°	8123.9	8110.3	8137.4	8173.6	8214.2	8264.0	8327.2	8395.0	8467.3	8548.6	8611.9
15°	7911.5	7897.9	7929.6	7965.7	8015.5	8087.8	8164.6	8254.9	8358.8	8467.3	8571.2
17.5°	7694.6	7690.1	7721.7	7771.5	7812.2	7888.9	7988.4	8096.7	8214.2	8358.8	8494.4
20°	7473.3	7468.8	7500.4	7541.1	7595.2	7667.5	7766.9	7893.4	8033.5	8196.2	8354.3
22.5°	7242.8	7247.3	7274.4	7319.6	7364.8	7441.6	7545.5	7672.1	7825.6	8001.9	8178.1
25°	6931.0	6908.5	6944.6	6989.8	7066.6	7129.8	7229.3	7364.8	7522.9	7708.2	7916.1
27.5°	6479.2	6474.7	6506.4	6547.0	6614.7	6691.6	6800.0	6940.1	7107.3	7310.6	7513.9
30°	6027.4	6036.4	6050.0	6090.7	6135.8	6212.6	6321.1	6438.6	6596.7	6791.0	7007.9
32.5°	5720.1	5720.1	5738.2	5765.3	5797.0	5837.6	5914.5	6000.3	6122.3	6257.9	6416.0
35°	5616.2	5598.2	5616.2	5620.7	5625.3	5634.3	5647.8	5675.0	5715.6	5774.4	5833.1
37.5°	5571.1	5557.5	5557.5	5539.5	5516.8	5489.7	5453.6	5412.9	5367.8	5309.0	5263.9
40°	5394.9	5385.8	5376.7	5358.7	5309.0	5254.8	5196.0	5101.1	4997.2	4852.6	4708.1
42.5°	5056.0	5046.9	5042.4	5006.3	4961.0	4897.8	4830.0	4730.7	4599.6	4414.4	4206.5
45°	4635.8	4617.7	4604.2	4572.6	4540.8	4486.7	4423.4	4333.0	4202.0	4012.3	3763.7
47.5°	4147.8	4138.7	4134.2	4120.7	4089.1	4057.4	4016.8	3944.5	3827.0	3646.2	3388.7
50°	3655.3	3637.3	3646.2	3641.8	3628.2	3605.6	3578.4	3528.8	3438.4	3275.7	3040.8
52.5°	3090.5	3090.5	3086.0	3099.5	3104.1	3099.5	3104.1	3049.9	2973.0	2851.0	2652.2
55°	2503.1	2503.1	2516.7	2534.8	2552.8	2557.4	2552.8	2530.3	2476.0	2376.6	2200.4
57.5°	1951.9	1942.9	1970.0	1997.1	2015.2	2033.2	2019.6	2001.6	1970.0	1888.6	1753.1
60°	1486.5	1486.5	1504.5	1522.7	1540.7	1558.8	1554.3	1549.8	1522.7	1468.4	1360.0
62.5°	1093.4	1097.9	1097.9	1111.5	1129.5	1147.7	1161.2	1147.7	1134.1	1097.9	1025.6
65°	781.6	777.1	781.6	795.2	808.8	826.8	835.9	831.4	817.8	790.7	736.5
67.5°	524.1	519.6	537.6	542.2	551.2	569.4	564.8	569.4	564.8	542.2	497.1
70°	343.4	334.3	343.4	338.9	352.4	357.0	365.9	370.5	365.9	352.4	338.9
72.5°	212.4	207.8	212.4	216.9	221.4	225.9	234.9	234.9	230.4	221.4	203.3
75°	135.5	121.9	126.5	117.5	126.5	126.5	135.5	140.1	135.5	135.5	126.5
77.5°	81.4	81.4	81.4	81.4	81.4	81.4	81.4	85.9	90.3	81.4	76.8
80°	40.7	40.7	45.2	45.2	45.2	49.7	45.2	45.2	45.2	49.7	36.2
82.5°	31.6	27.1	27.1	27.1	31.6	27.1	27.1	27.1	27.1	27.1	27.1
85°	13.6	18.0	13.6	9.1	13.6	13.6	18.0	13.6	13.6	13.6	18.0
87.5°	4.5	4.5	0.0	0.0	0.0	4.5	0.0	4.5	4.5	9.1	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°	8512.4	8512.4	8512.4	8512.4	8512.4	8512.4	8512.4	8512.4	8512.4	8512.4	8512.4
2.5°	8535.1	8526.0	8526.0	8521.5	8530.5	8521.5	8526.0	8521.5	8521.5	8530.5	8521.5
5°	8566.7	8571.2	8562.2	8557.6	8571.2	8571.2	8571.2	8562.2	8562.2	8566.7	8562.2
7.5°	8611.9	8620.9	8625.4	8629.9	8639.0	8643.5	8643.5	8639.0	8634.5	8648.1	8629.9
10°	8661.5	8675.1	8702.2	8715.8	8738.4	8738.4	8747.4	8747.4	8738.4	8747.4	8742.9
12.5°	8643.5	8724.8	8770.0	8801.6	8833.2	8860.3	8869.4	8873.9	8869.4	8887.5	8869.4
15°	8675.1	8742.9	8815.2	8869.4	8928.1	8959.7	8968.8	9004.9	9014.0	9018.5	8991.4
17.5°	8625.4	8747.4	8824.2	8905.5	8991.4	9050.1	9104.3	9127.0	9131.5	9140.5	9104.3
20°	8512.4	8648.1	8765.5	8883.0	8982.4	9072.7	9117.9	9181.2	9163.1	9199.3	9149.5
22.5°	8358.8	8512.4	8661.5	8815.2	8919.1	9027.6	9122.5	9167.6	9190.2	9190.2	9135.9
25°	8114.9	8295.6	8458.2	8616.3	8774.5	8905.5	9014.0	9081.8	9095.4	9090.8	9027.6
27.5°	7735.3	7929.6	8119.4	8300.1	8494.4	8648.1	8774.5	8855.8	8878.5	8878.5	8810.7
30°	7211.2	7419.0	7604.3	7821.1	8020.0	8191.7	8367.9	8440.2	8480.8	8480.8	8404.1
32.5°	6587.6	6763.9	6935.6	7147.9	7364.8	7559.1	7726.3	7825.6	7875.4	7870.9	7803.1
35°	5909.9	5995.7	6126.8	6284.9	6479.2	6659.9	6822.6	6917.5	7003.3	6998.8	6935.6
37.5°	5232.1	5209.6	5223.2	5281.9	5403.8	5530.4	5656.9	5747.3	5819.5	5851.2	5837.6
40°	4568.0	4450.5	4337.5	4296.9	4305.9	4351.1	4418.9	4486.7	4568.0	4608.7	4626.7
42.5°	3971.6	3772.8	3573.9	3424.9	3339.0	3311.9	3343.5	3366.1	3415.8	3474.5	3533.3
45°	3492.7	3226.1	2964.0	2733.6	2589.0	2503.1	2485.1	2503.1	2530.3	2589.0	2665.8
47.5°	3099.5	2787.8	2494.1	2236.5	2024.2	1911.3	1879.7	1870.6	1897.7	1951.9	2055.8
50°	2751.6	2439.8	2114.6	1816.3	1595.0	1468.4	1423.3	1405.2	1436.8	1477.5	1572.3
52.5°	2372.1	2064.8	1730.5	1441.3	1210.9	1079.9	1030.2	1003.1	1021.1	1075.4	1170.2
55°	1960.9	1676.2	1373.5	1075.4	853.9	732.0	673.2	655.1	673.2	732.0	826.8
57.5°	1549.8	1310.3	1057.2	777.1	578.3	456.4	397.6	379.5	429.3	451.8	551.2
60°	1210.9	1016.7	799.8	569.4	397.6	302.7	244.0	230.4	253.1	293.6	375.0
62.5°	908.2	786.2	614.5	406.6	293.6	194.2	162.6	149.1	162.6	194.2	257.6
65°	659.7	564.8	429.3	298.2	198.8	144.6	108.5	99.4	113.0	135.5	189.8
67.5°	451.8	379.5	298.2	207.8	135.5	90.3	76.8	76.8	81.4	99.4	140.1
70°	293.6	248.5	189.8	135.5	90.3	67.8	58.7	49.7	58.7	72.3	94.9
72.5°	185.3	158.1	121.9	94.9	67.8	49.7	40.7	36.2	45.2	54.2	72.3
75°	113.0	85.9	63.2	49.7	36.2	36.2	36.2	18.0	22.6	36.2	45.2
77.5°	67.8	58.7	49.7	40.7	31.6	18.0	18.0	18.0	22.6	27.1	40.7
80°	36.2	31.6	22.6	22.6	18.0	13.6	18.0	13.6	9.1	22.6	27.1
82.5°	22.6	18.0	18.0	18.0	22.6	9.1	13.6	9.1	13.6	18.0	13.6
85°	13.6	13.6	13.6	9.1	22.6	9.1	9.1	4.5	4.5	9.1	9.1
87.5°	0.0	4.5	4.5	0.0	4.5	0.0	4.5	4.5	4.5	4.5	4.5
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°	8512.4	8512.4	8512.4	8512.4	8512.4	8512.4	8512.4	8512.4	8512.4	8512.4	8512.4
2.5°	8526.0	8521.5	8526.0	8521.5	8521.5	8521.5	8526.0	8526.0	8521.5	8521.5	8530.5
5°	8562.2	8562.2	8562.2	8557.6	8553.1	8553.1	8562.2	8562.2	8548.6	8562.2	8562.2
7.5°	8639.0	8625.4	8639.0	8620.9	8611.9	8616.3	8620.9	8611.9	8602.8	8607.4	8607.4
10°	8738.4	8724.8	8724.8	8711.3	8697.7	8688.6	8679.7	8657.0	8634.5	8629.9	8611.9
12.5°	8855.8	8833.2	8819.7	8792.6	8770.0	8738.4	8711.3	8675.1	8629.9	8598.3	8566.7
15°	8973.3	8937.2	8905.5	8860.3	8810.7	8756.4	8697.7	8639.0	8566.7	8503.5	8449.2
17.5°	9068.2	9018.5	8959.7	8887.5	8815.2	8733.9	8648.1	8562.2	8458.2	8376.9	8313.6
20°	9099.8	9027.6	8950.8	8855.8	8760.9	8648.1	8539.6	8426.6	8309.1	8223.3	8151.0
22.5°	9059.2	8973.3	8878.5	8779.1	8652.5	8530.5	8404.1	8272.9	8169.0	8051.6	7983.8
25°	8946.2	8842.3	8738.4	8620.9	8498.9	8363.4	8227.8	8092.3	7965.7	7902.5	7816.7
27.5°	8715.8	8602.8	8489.9	8367.9	8227.8	8092.3	7952.2	7821.1	7712.8	7626.9	7577.2
30°	8309.1	8178.1	8047.1	7916.1	7794.0	7654.0	7522.9	7414.5	7306.0	7238.3	7188.6
32.5°	7685.6	7568.2	7437.1	7310.6	7197.7	7080.2	6971.7	6876.9	6800.0	6754.8	6718.7
35°	6845.2	6727.7	6628.3	6538.0	6443.0	6393.4	6325.6	6271.3	6239.7	6221.7	6217.2
37.5°	5787.9	5720.1	5688.5	5670.5	5652.4	5638.9	5647.8	5670.5	5688.5	5720.1	5756.3
40°	4658.3	4717.1	4735.2	4798.4	4857.1	4934.0	5019.9	5119.3	5200.5	5304.4	5376.7
42.5°	3628.2	3736.6	3863.1	3998.7	4143.3	4283.3	4455.0	4613.1	4757.7	4888.7	5001.7
45°	2787.8	2954.9	3144.7	3339.0	3533.3	3736.6	3944.5	4138.7	4310.4	4450.5	4568.0
47.5°	2173.3	2358.6	2602.6	2842.0	3077.0	3316.4	3546.8	3750.1	3894.7	4030.3	4134.2
50°	1721.5	1933.8	2200.4	2476.0	2733.6	2986.5	3230.5	3420.4	3565.0	3673.4	3750.1
52.5°	1332.9	1585.9	1857.0	2146.2	2421.8	2697.4	2923.3	3099.5	3217.0	3311.9	3370.6
55°	994.0	1242.5	1531.7	1829.9	2110.1	2376.6	2589.0	2742.6	2846.6	2900.7	2932.4
57.5°	718.4	944.4	1233.5	1531.7	1784.7	2037.8	2209.4	2349.5	2408.2	2439.8	2453.4
60°	524.1	732.0	989.5	1247.1	1486.5	1689.8	1839.0	1933.8	1979.0	1997.1	1992.5
62.5°	384.1	564.8	786.2	1003.1	1197.3	1364.5	1482.0	1545.2	1567.9	1576.8	1563.4
65°	293.6	433.7	623.5	790.7	939.8	1061.8	1147.7	1188.4	1201.8	1197.3	1188.4
67.5°	216.9	325.4	465.4	591.9	700.4	795.2	840.4	876.6	885.5	872.1	858.5
70°	153.7	239.5	338.9	424.8	506.0	560.3	609.9	614.5	614.5	609.9	601.0
72.5°	108.5	167.2	230.4	289.2	338.9	379.5	397.6	411.2	406.6	402.1	393.1
75°	72.3	103.9	167.2	180.8	225.9	239.5	257.6	257.6	262.0	248.5	248.5
77.5°	45.2	72.3	99.4	117.5	135.5	153.7	162.6	162.6	167.2	162.6	162.6
80°	27.1	45.2	54.2	81.4	81.4	94.9	99.4	103.9	94.9	108.5	94.9
82.5°	18.0	27.1	40.7	40.7	49.7	58.7	58.7	63.2	63.2	58.7	58.7
85°	13.6	18.0	22.6	27.1	27.1	31.6	27.1	27.1	31.6	36.2	31.6
87.5°	4.5	9.1	4.5	9.1	9.1	18.0	13.6	13.6	13.6	18.0	18.0
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: P248341

CATALOG NUMBER: LSR8B150D010 EC8B150830 8LBDWOLI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	8512.4	8512.4	8512.4	8512.4
2.5°	8521.5	8526.0	8521.5	8521.5
5°	8562.2	8557.6	8562.2	8553.1
7.5°	8593.8	8593.8	8589.2	8589.2
10°	8593.8	8575.8	8575.8	8575.8
12.5°	8526.0	8503.5	8489.9	8480.8
15°	8408.5	8367.9	8349.8	8345.3
17.5°	8254.9	8218.8	8196.2	8182.6
20°	8078.7	8042.6	8015.5	8020.0
22.5°	7925.0	7884.5	7866.3	7857.3
25°	7771.5	7721.7	7708.2	7699.2
27.5°	7522.9	7495.9	7482.3	7468.8
30°	7143.4	7129.8	7107.3	7138.9
32.5°	6705.2	6682.5	6664.5	6678.1
35°	6221.7	6208.1	6221.7	6212.6
37.5°	5778.9	5792.4	5810.6	5819.5
40°	5431.0	5480.7	5498.8	5507.7
42.5°	5083.1	5141.8	5178.0	5200.5
45°	4653.8	4712.5	4753.2	4780.4
47.5°	4211.0	4260.8	4301.4	4296.9
50°	3809.0	3836.0	3854.1	3872.2
52.5°	3402.2	3402.2	3406.8	3406.8
55°	2941.4	2932.4	2927.8	2932.4
57.5°	2435.3	2426.4	2421.8	2408.2
60°	1974.5	1947.4	1929.3	1929.3
62.5°	1545.2	1513.6	1500.1	1495.6
65°	1161.2	1156.6	1129.5	1125.0
67.5°	840.4	822.3	804.3	808.8
70°	591.9	564.8	564.8	555.8
72.5°	384.1	370.5	365.9	365.9
75°	239.5	239.5	230.4	248.5
77.5°	158.1	158.1	153.7	158.1
80°	94.9	94.9	94.9	90.3
82.5°	58.7	63.2	58.7	58.7
85°	31.6	36.2	27.1	40.7
87.5°	18.0	22.6	18.0	22.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)