

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: P248431

Luminaire Tested: **LSR8B150D010 EC8B150930 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248431
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 8LBDWOLI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14091.0 lumens
Efficiency: N/A
Efficacy: 88.9 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

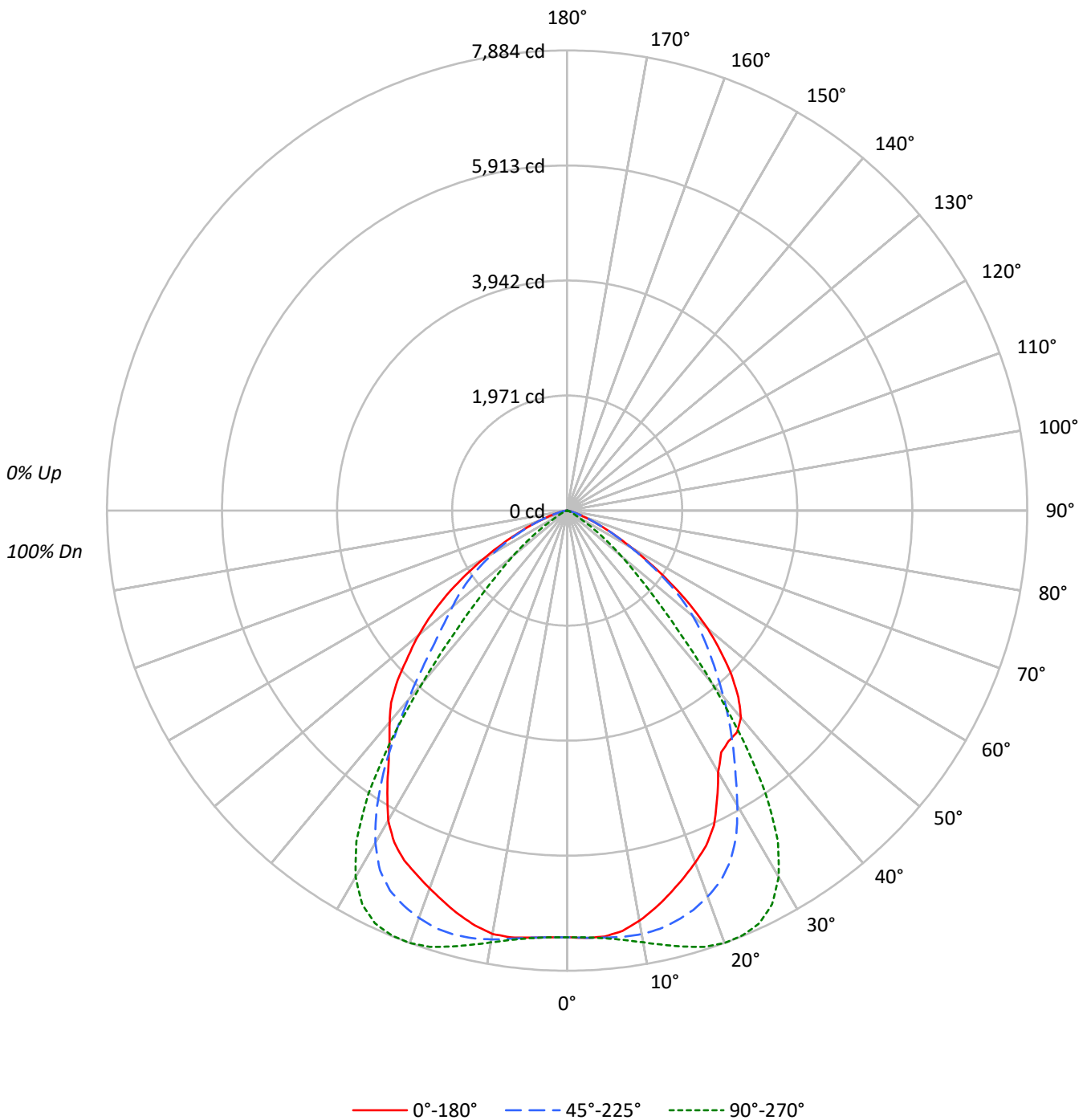
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
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°	703.0	5.0
10°-20°	2082.5	14.8
20°-30°	3177.1	22.5
30°-40°	3315.3	23.5
40°-50°	2490.2	17.7
50°-60°	1532.2	10.9
60°-70°	623.5	4.4
70°-80°	146.9	1.0
80°-90°	20.2	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°	5962.6	42.3
0°-40°	9277.9	65.8
0°-60°	13300.3	94.4
0°-90°	14091.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14091.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7310	7310	7310	7310	7310	
5°	7326	7345	7353	7345	7345	693
15°	6794	7271	7733	7519	7166	1914
25°	5952	6619	7799	7182	6612	2706
35°	4823	4959	5940	5490	5335	3045
45°	3981	3446	2150	3209	4105	3037
55°	2150	2041	563	2041	2518	1932
65°	671	679	85	912	966	700
75°	116	116	16	206	213	140
85°	12	12	4	27	35	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°	7309.9	7309.9	7309.9	7309.9	7309.9	7309.9	7309.9	7309.9	7309.9	7309.9	7309.9
2.5°	7329.3	7317.7	7329.3	7329.3	7333.2	7325.5	7329.3	7333.2	7325.5	7325.5	7325.5
5°	7325.5	7317.7	7325.5	7321.6	7329.3	7329.3	7337.2	7337.2	7344.8	7344.8	7356.6
7.5°	7263.4	7247.9	7263.4	7275.1	7282.8	7298.3	7317.7	7333.2	7348.7	7364.3	7383.7
10°	7135.3	7135.3	7146.9	7170.3	7193.5	7220.7	7255.6	7294.5	7333.2	7368.1	7403.1
12.5°	6976.3	6964.7	6987.9	7018.9	7053.9	7096.6	7150.9	7209.0	7271.1	7341.0	7395.3
15°	6793.9	6782.3	6809.4	6840.5	6883.2	6945.3	7011.2	7088.8	7178.0	7271.1	7360.4
17.5°	6607.6	6603.7	6630.9	6673.6	6708.5	6774.4	6859.8	6952.9	7053.9	7178.0	7294.5
20°	6417.6	6413.7	6440.8	6475.8	6522.3	6584.4	6669.7	6778.4	6898.6	7038.4	7174.2
22.5°	6219.6	6223.6	6246.8	6285.7	6324.5	6390.4	6479.6	6588.2	6720.2	6871.5	7022.8
25°	5951.9	5932.6	5963.6	6002.4	6068.3	6122.6	6208.1	6324.5	6460.2	6619.3	6797.9
27.5°	5563.9	5560.0	5587.3	5622.2	5680.3	5746.2	5839.4	5959.7	6103.3	6277.8	6452.5
30°	5175.9	5183.7	5195.4	5230.2	5269.0	5335.1	5428.1	5529.1	5664.9	5831.7	6017.9
32.5°	4912.1	4912.1	4927.6	4950.9	4978.0	5013.0	5078.9	5152.7	5257.5	5373.8	5509.6
35°	4822.9	4807.3	4822.9	4826.7	4830.6	4838.3	4850.0	4873.3	4908.2	4958.6	5009.1
37.5°	4784.1	4772.4	4772.4	4757.0	4737.5	4714.3	4683.2	4648.2	4609.4	4559.0	4520.2
40°	4632.8	4625.0	4617.2	4601.7	4559.0	4512.5	4461.9	4380.5	4291.3	4167.1	4043.0
42.5°	4341.7	4334.0	4330.1	4299.0	4260.2	4205.9	4147.7	4062.4	3949.8	3790.8	3612.3
45°	3980.9	3965.3	3953.8	3926.6	3899.4	3852.9	3798.5	3720.9	3608.4	3445.5	3232.1
47.5°	3561.9	3554.1	3550.2	3538.5	3511.4	3484.2	3449.3	3387.3	3286.3	3131.2	2910.0
50°	3138.9	3123.4	3131.2	3127.4	3115.7	3096.3	3072.9	3030.3	2952.6	2813.0	2611.3
52.5°	2653.9	2653.9	2650.0	2661.7	2665.5	2661.7	2665.5	2619.0	2553.1	2448.3	2277.5
55°	2149.5	2149.5	2161.2	2176.8	2192.2	2196.0	2192.2	2172.8	2126.2	2040.9	1889.6
57.5°	1676.1	1668.4	1691.7	1714.9	1730.5	1746.0	1734.3	1718.8	1691.7	1621.9	1505.4
60°	1276.5	1276.5	1292.0	1307.5	1323.0	1338.6	1334.8	1330.9	1307.5	1261.0	1168.0
62.5°	938.9	942.9	942.9	954.5	970.0	985.6	997.1	985.6	973.9	942.9	880.8
65°	671.3	667.3	671.3	682.9	694.6	710.0	717.8	714.0	702.3	679.0	632.5
67.5°	450.1	446.2	461.6	465.6	473.4	489.0	485.1	489.0	485.1	465.6	426.9
70°	294.8	287.1	294.8	291.0	302.7	306.6	314.2	318.1	314.2	302.7	291.0
72.5°	182.4	178.5	182.4	186.3	190.1	193.9	201.8	201.8	197.9	190.1	174.5
75°	116.4	104.7	108.6	100.9	108.6	108.6	116.4	120.3	116.4	116.4	108.6
77.5°	69.8	69.8	69.8	69.8	69.8	69.8	69.8	73.8	77.6	69.8	66.0
80°	35.0	35.0	38.8	38.8	38.8	42.7	38.8	38.8	38.8	42.7	31.1
82.5°	27.1	23.2	23.2	23.2	27.1	23.2	23.2	23.2	23.2	23.2	23.2
85°	11.7	15.5	11.7	7.7	11.7	11.7	15.5	11.7	11.7	11.7	15.5
87.5°	3.9	3.9	0.0	0.0	0.0	3.9	0.0	3.9	3.9	7.7	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°	7309.9	7309.9	7309.9	7309.9	7309.9	7309.9	7309.9	7309.9	7309.9	7309.9	7309.9
2.5°	7329.3	7321.6	7321.6	7317.7	7325.5	7317.7	7321.6	7317.7	7317.7	7325.5	7317.7
5°	7356.6	7360.4	7352.6	7348.7	7360.4	7360.4	7360.4	7352.6	7352.6	7356.6	7352.6
7.5°	7395.3	7403.1	7406.9	7410.8	7418.6	7422.5	7422.5	7418.6	7414.7	7426.4	7410.8
10°	7437.9	7449.6	7472.9	7484.6	7504.0	7504.0	7511.7	7511.7	7504.0	7511.7	7507.8
12.5°	7422.5	7492.3	7531.1	7558.2	7585.4	7608.7	7616.4	7620.3	7616.4	7632.0	7616.4
15°	7449.6	7507.8	7569.9	7616.4	7666.9	7694.0	7701.8	7732.9	7740.6	7744.5	7721.2
17.5°	7406.9	7511.7	7577.6	7647.5	7721.2	7771.7	7818.2	7837.7	7841.5	7849.2	7818.2
20°	7309.9	7426.4	7527.2	7628.2	7713.5	7791.1	7829.8	7884.2	7868.7	7899.7	7857.0
22.5°	7178.0	7309.9	7437.9	7569.9	7659.1	7752.3	7833.8	7872.4	7892.0	7892.0	7845.3
25°	6968.5	7123.7	7263.4	7399.2	7535.0	7647.5	7740.6	7798.8	7810.5	7806.6	7752.3
27.5°	6642.6	6809.4	6972.4	7127.7	7294.5	7426.4	7535.0	7604.8	7624.3	7624.3	7566.1
30°	6192.5	6371.0	6530.0	6716.2	6887.1	7034.5	7185.8	7247.9	7282.8	7282.8	7216.9
32.5°	5657.0	5808.3	5955.8	6138.1	6324.5	6491.3	6634.8	6720.2	6762.9	6759.0	6700.8
35°	5075.1	5148.8	5261.3	5397.1	5563.9	5719.1	5858.8	5940.3	6014.1	6010.1	5955.8
37.5°	4493.0	4473.7	4485.3	4535.7	4640.5	4749.1	4857.7	4935.4	4997.4	5024.7	5013.0
40°	3922.7	3821.8	3724.7	3689.9	3697.6	3736.4	3794.7	3852.9	3922.7	3957.7	3973.2
42.5°	3410.5	3239.8	3069.1	2941.1	2867.3	2844.1	2871.2	2890.6	2933.3	2983.7	3034.2
45°	2999.2	2770.3	2545.2	2347.4	2223.3	2149.5	2134.0	2149.5	2172.8	2223.3	2289.2
47.5°	2661.7	2393.9	2141.8	1920.6	1738.2	1641.3	1614.1	1606.4	1629.6	1676.1	1765.4
50°	2362.8	2095.1	1815.9	1559.8	1369.6	1261.0	1222.2	1206.6	1233.8	1268.7	1350.2
52.5°	2037.0	1773.2	1486.1	1237.7	1039.8	927.4	884.6	861.4	876.8	923.5	1004.9
55°	1683.9	1439.5	1179.5	923.5	733.2	628.5	578.1	562.6	578.1	628.5	710.0
57.5°	1330.9	1125.1	907.9	667.3	496.6	391.9	341.3	325.9	368.6	388.0	473.4
60°	1039.8	873.0	686.7	489.0	341.3	260.0	209.5	197.9	217.4	252.1	322.1
62.5°	779.9	675.1	527.7	349.2	252.1	166.8	139.7	128.0	139.7	166.8	221.2
65°	566.4	485.1	368.6	256.0	170.7	124.2	93.2	85.3	97.1	116.4	163.0
67.5°	388.0	325.9	256.0	178.5	116.4	77.6	66.0	66.0	69.8	85.3	120.3
70°	252.1	213.4	163.0	116.4	77.6	58.2	50.4	42.7	50.4	62.1	81.5
72.5°	159.1	135.8	104.7	81.5	58.2	42.7	35.0	31.1	38.8	46.5	62.1
75°	97.1	73.8	54.3	42.7	31.1	31.1	31.1	15.5	19.4	31.1	38.8
77.5°	58.2	50.4	42.7	35.0	27.1	15.5	15.5	15.5	19.4	23.2	35.0
80°	31.1	27.1	19.4	19.4	15.5	11.7	15.5	11.7	7.7	19.4	23.2
82.5°	19.4	15.5	15.5	15.5	19.4	7.7	11.7	7.7	11.7	15.5	11.7
85°	11.7	11.7	11.7	7.7	19.4	7.7	7.7	3.9	3.9	7.7	7.7
87.5°	0.0	3.9	3.9	0.0	3.9	0.0	3.9	3.9	3.9	3.9	3.9
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°	7309.9	7309.9	7309.9	7309.9	7309.9	7309.9	7309.9	7309.9	7309.9	7309.9	7309.9
2.5°	7321.6	7317.7	7321.6	7317.7	7317.7	7317.7	7321.6	7321.6	7317.7	7317.7	7325.5
5°	7352.6	7352.6	7352.6	7348.7	7344.8	7344.8	7352.6	7352.6	7341.0	7352.6	7352.6
7.5°	7418.6	7406.9	7418.6	7403.1	7395.3	7399.2	7403.1	7395.3	7387.5	7391.4	7391.4
10°	7504.0	7492.3	7492.3	7480.7	7469.0	7461.3	7453.5	7434.0	7414.7	7410.8	7395.3
12.5°	7604.8	7585.4	7573.8	7550.5	7531.1	7504.0	7480.7	7449.6	7410.8	7383.7	7356.6
15°	7705.6	7674.7	7647.5	7608.7	7566.1	7519.4	7469.0	7418.6	7356.6	7302.2	7255.6
17.5°	7787.1	7744.5	7694.0	7632.0	7569.9	7500.1	7426.4	7352.6	7263.4	7193.5	7139.2
20°	7814.3	7752.3	7686.4	7604.8	7523.4	7426.4	7333.2	7236.3	7135.3	7061.6	6999.5
22.5°	7779.4	7705.6	7624.3	7538.8	7430.2	7325.5	7216.9	7104.2	7015.0	6914.2	6856.0
25°	7682.4	7593.2	7504.0	7403.1	7298.3	7181.9	7065.6	6949.1	6840.5	6786.1	6712.4
27.5°	7484.6	7387.5	7290.5	7185.8	7065.6	6949.1	6828.8	6716.2	6623.2	6549.4	6506.8
30°	7135.3	7022.8	6910.3	6797.9	6693.0	6572.8	6460.2	6367.1	6273.9	6215.7	6173.1
32.5°	6599.9	6499.0	6386.6	6277.8	6180.9	6080.0	5986.8	5905.4	5839.4	5800.6	5769.6
35°	5878.2	5777.3	5692.0	5614.4	5532.8	5490.2	5432.0	5385.4	5358.3	5342.8	5338.9
37.5°	4970.3	4912.1	4884.9	4869.4	4853.8	4842.3	4850.0	4869.4	4884.9	4912.1	4943.2
40°	4000.3	4050.7	4066.3	4120.6	4171.0	4236.9	4310.7	4396.1	4465.8	4555.1	4617.2
42.5°	3115.7	3208.8	3317.4	3433.8	3557.9	3678.2	3825.7	3961.5	4085.6	4198.1	4295.1
45°	2393.9	2537.5	2700.5	2867.3	3034.2	3208.8	3387.3	3554.1	3701.5	3821.8	3922.7
47.5°	1866.2	2025.4	2234.9	2440.5	2642.3	2847.9	3045.8	3220.4	3344.5	3461.0	3550.2
50°	1478.3	1660.6	1889.6	2126.2	2347.4	2564.6	2774.1	2937.1	3061.3	3154.5	3220.4
52.5°	1144.5	1361.9	1594.6	1843.0	2079.7	2316.3	2510.4	2661.7	2762.6	2844.1	2894.4
55°	853.5	1067.0	1315.4	1571.4	1812.0	2040.9	2223.3	2355.2	2444.5	2491.0	2518.1
57.5°	616.9	810.9	1059.2	1315.4	1532.6	1749.9	1897.3	2017.6	2068.0	2095.1	2106.8
60°	450.1	628.5	849.7	1070.9	1276.5	1451.1	1579.2	1660.6	1699.4	1714.9	1711.1
62.5°	329.8	485.1	675.1	861.4	1028.2	1171.7	1272.7	1326.9	1346.4	1354.1	1342.5
65°	252.1	372.4	535.5	679.0	807.0	911.8	985.6	1020.4	1032.1	1028.2	1020.4
67.5°	186.3	279.4	399.6	508.3	601.4	682.9	721.7	752.8	760.5	748.8	737.2
70°	131.9	205.6	291.0	364.8	434.5	481.1	523.7	527.7	527.7	523.7	516.1
72.5°	93.2	143.6	197.9	248.3	291.0	325.9	341.3	353.1	349.2	345.3	337.6
75°	62.1	89.2	143.6	155.3	193.9	205.6	221.2	221.2	225.0	213.4	213.4
77.5°	38.8	62.1	85.3	100.9	116.4	131.9	139.7	139.7	143.6	139.7	139.7
80°	23.2	38.8	46.5	69.8	69.8	81.5	85.3	89.2	81.5	93.2	81.5
82.5°	15.5	23.2	35.0	35.0	42.7	50.4	50.4	54.3	54.3	50.4	50.4
85°	11.7	15.5	19.4	23.2	23.2	27.1	23.2	23.2	27.1	31.1	27.1
87.5°	3.9	7.7	3.9	7.7	7.7	15.5	11.7	11.7	11.7	15.5	15.5
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: P248431

CATALOG NUMBER: LSR8B150D010 EC8B150930 8LBDWOLI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	7309.9	7309.9	7309.9	7309.9
2.5°	7317.7	7321.6	7317.7	7317.7
5°	7352.6	7348.7	7352.6	7344.8
7.5°	7379.8	7379.8	7375.8	7375.8
10°	7379.8	7364.3	7364.3	7364.3
12.5°	7321.6	7302.2	7290.5	7282.8
15°	7220.7	7185.8	7170.3	7166.3
17.5°	7088.8	7057.7	7038.4	7026.7
20°	6937.4	6906.4	6883.2	6887.1
22.5°	6805.5	6770.6	6755.0	6747.3
25°	6673.6	6630.9	6619.3	6611.5
27.5°	6460.2	6436.9	6425.2	6413.7
30°	6134.3	6122.6	6103.3	6130.4
32.5°	5757.9	5738.5	5723.0	5734.7
35°	5342.8	5331.1	5342.8	5335.1
37.5°	4962.6	4974.1	4989.7	4997.4
40°	4663.8	4706.4	4722.0	4729.7
42.5°	4365.1	4415.4	4446.4	4465.8
45°	3996.4	4046.8	4081.8	4105.1
47.5°	3616.1	3658.8	3693.7	3689.9
50°	3270.9	3294.2	3309.6	3325.2
52.5°	2921.7	2921.7	2925.5	2925.5
55°	2525.9	2518.1	2514.2	2518.1
57.5°	2091.3	2083.6	2079.7	2068.0
60°	1695.6	1672.3	1656.7	1656.7
62.5°	1326.9	1299.8	1288.3	1284.3
65°	997.1	993.2	970.0	966.1
67.5°	721.7	706.1	690.6	694.6
70°	508.3	485.1	485.1	477.2
72.5°	329.8	318.1	314.2	314.2
75°	205.6	205.6	197.9	213.4
77.5°	135.8	135.8	131.9	135.8
80°	81.5	81.5	81.5	77.6
82.5°	50.4	54.3	50.4	50.4
85°	27.1	31.1	23.2	35.0
87.5°	15.5	19.4	15.5	19.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)