

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: P248422

Luminaire Tested: **LSR8B150D010 EC8B150927 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248422
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 EC8B150927 8LBDWOLI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13366.1 lumens
Efficiency: N/A
Efficacy: 84.3 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

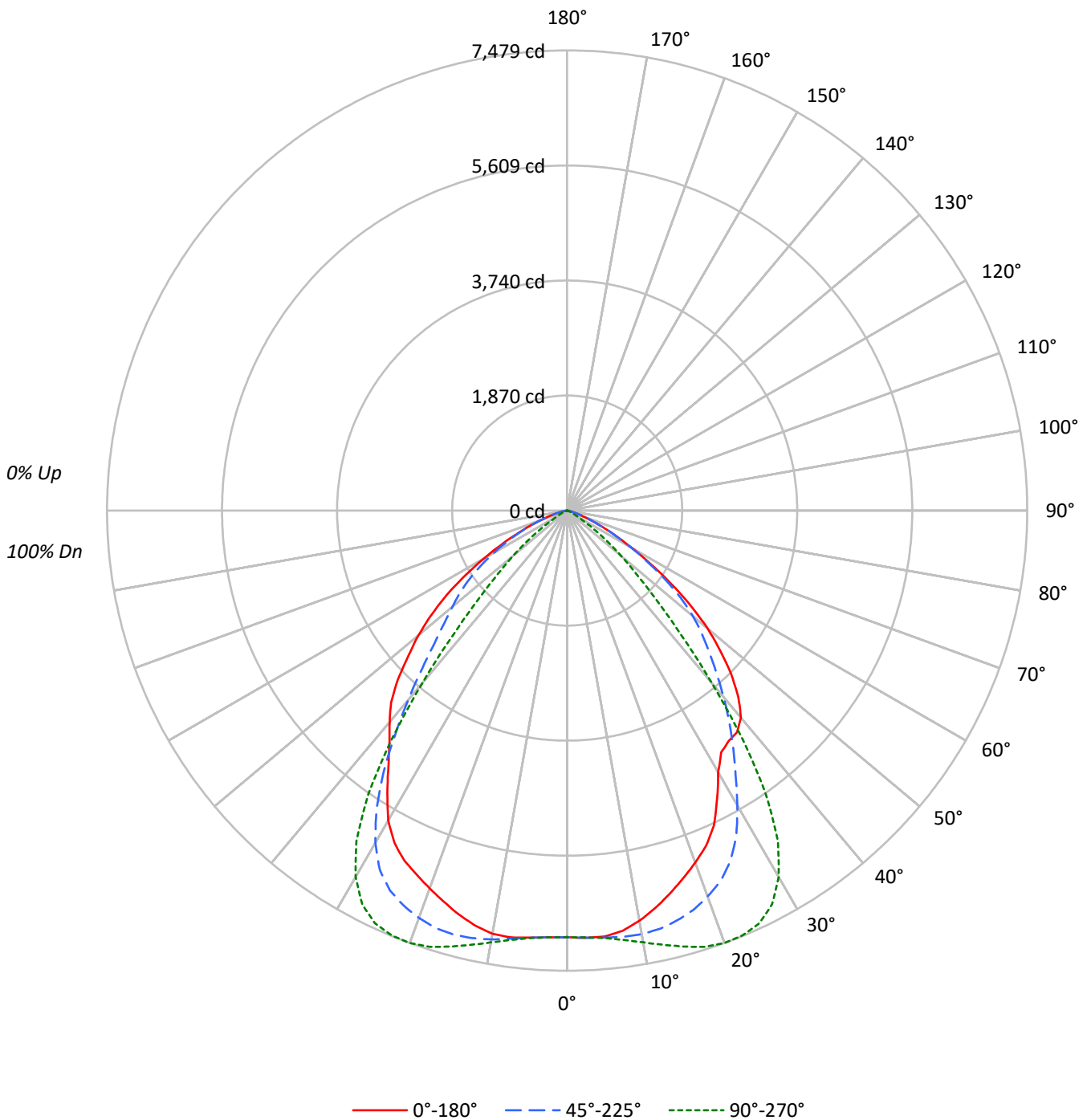
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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						
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°	666.8	5.0
10°-20°	1975.4	14.8
20°-30°	3013.6	22.5
30°-40°	3144.8	23.5
40°-50°	2362.1	17.7
50°-60°	1453.4	10.9
60°-70°	591.5	4.4
70°-80°	139.3	1.0
80°-90°	19.2	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°	5655.8	42.3
0°-40°	8800.6	65.8
0°-60°	12616.1	94.4
0°-90°	13366.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13366.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6934	6934	6934	6934	6934	
5°	6949	6967	6974	6967	6967	657
15°	6444	6897	7335	7133	6798	1815
25°	5646	6279	7398	6812	6271	2567
35°	4575	4704	5635	5208	5061	2889
45°	3776	3268	2039	3044	3894	2881
55°	2039	1936	534	1936	2389	1833
65°	637	644	81	865	916	664
75°	110	110	15	195	202	133
85°	11	11	4	26	33	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°	6933.8	6933.8	6933.8	6933.8	6933.8	6933.8	6933.8	6933.8	6933.8	6933.8	6933.8
2.5°	6952.4	6941.2	6952.4	6952.4	6956.0	6948.7	6952.4	6956.0	6948.7	6948.7	6948.7
5°	6948.7	6941.2	6948.7	6945.0	6952.4	6952.4	6959.7	6959.7	6967.0	6967.0	6978.0
7.5°	6889.7	6875.1	6889.7	6900.9	6908.2	6922.9	6941.2	6956.0	6970.7	6985.5	7003.8
10°	6768.2	6768.2	6779.4	6801.4	6823.5	6849.2	6882.4	6919.2	6956.0	6989.1	7022.2
12.5°	6617.5	6606.3	6628.4	6657.9	6691.0	6731.6	6783.1	6838.2	6897.2	6963.3	7014.9
15°	6444.4	6433.3	6459.1	6488.6	6529.0	6588.0	6650.6	6724.1	6808.8	6897.2	6981.8
17.5°	6267.7	6264.0	6289.8	6330.4	6363.4	6426.0	6507.0	6595.3	6691.0	6808.8	6919.2
20°	6087.5	6083.8	6109.5	6142.6	6186.8	6245.7	6326.7	6429.7	6543.8	6676.3	6805.1
22.5°	5899.7	5903.4	5925.5	5962.3	5999.1	6061.6	6146.2	6249.4	6374.5	6518.0	6661.6
25°	5645.7	5627.4	5656.8	5693.6	5756.2	5807.7	5888.7	5999.1	6127.9	6278.8	6448.2
27.5°	5277.7	5274.0	5299.9	5333.0	5388.1	5450.7	5539.0	5653.1	5789.2	5954.8	6120.6
30°	4909.6	4917.0	4928.1	4961.2	4998.0	5060.6	5148.9	5244.6	5373.4	5531.6	5708.4
32.5°	4659.4	4659.4	4674.2	4696.2	4722.0	4755.2	4817.7	4887.6	4987.0	5097.4	5226.2
35°	4574.7	4560.1	4574.7	4578.4	4582.1	4589.6	4600.5	4622.6	4655.7	4703.6	4751.4
37.5°	4538.0	4526.9	4526.9	4512.3	4493.8	4471.8	4442.3	4409.1	4372.4	4324.5	4287.7
40°	4394.5	4387.0	4379.6	4365.0	4324.5	4280.4	4232.5	4155.2	4070.5	3952.7	3835.0
42.5°	4118.4	4111.1	4107.4	4077.9	4041.1	3989.6	3934.4	3853.4	3746.7	3595.7	3426.4
45°	3776.2	3761.3	3750.4	3724.6	3698.8	3654.7	3603.2	3529.5	3422.8	3268.2	3065.7
47.5°	3378.6	3371.3	3367.6	3356.6	3330.8	3305.0	3272.0	3213.0	3117.3	2970.1	2760.3
50°	2977.4	2962.8	2970.1	2966.5	2955.4	2937.0	2914.9	2874.4	2800.8	2668.3	2476.9
52.5°	2517.4	2517.4	2513.8	2524.7	2528.4	2524.7	2528.4	2484.3	2421.7	2322.3	2160.3
55°	2039.0	2039.0	2050.0	2064.7	2079.5	2083.2	2079.5	2061.1	2016.9	1935.9	1792.4
57.5°	1589.9	1582.6	1604.7	1626.8	1641.5	1656.2	1645.1	1630.5	1604.7	1538.4	1428.0
60°	1210.8	1210.8	1225.6	1240.3	1254.9	1269.8	1266.1	1262.4	1240.3	1196.1	1107.8
62.5°	890.7	894.4	894.4	905.4	920.0	934.9	945.8	934.9	923.7	894.4	835.4
65°	636.6	633.0	636.6	647.8	658.8	673.5	680.8	677.2	666.1	644.1	600.0
67.5°	426.9	423.2	438.0	441.7	449.0	463.7	460.1	463.7	460.1	441.7	404.9
70°	279.7	272.4	279.7	276.0	287.1	290.8	298.1	301.7	298.1	287.1	276.0
72.5°	173.0	169.3	173.0	176.7	180.3	183.9	191.4	191.4	187.6	180.3	165.6
75°	110.4	99.3	103.0	95.7	103.0	103.0	110.4	114.1	110.4	110.4	103.0
77.5°	66.3	66.3	66.3	66.3	66.3	66.3	66.3	70.0	73.6	66.3	62.6
80°	33.2	33.2	36.8	36.8	36.8	40.5	36.8	36.8	36.8	40.5	29.5
82.5°	25.8	22.0	22.0	22.0	25.8	22.0	22.0	22.0	22.0	22.0	22.0
85°	11.0	14.6	11.0	7.4	11.0	11.0	14.6	11.0	11.0	11.0	14.6
87.5°	3.7	3.7	0.0	0.0	0.0	3.7	0.0	3.7	3.7	7.4	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°	6933.8	6933.8	6933.8	6933.8	6933.8	6933.8	6933.8	6933.8	6933.8	6933.8	6933.8
2.5°	6952.4	6945.0	6945.0	6941.2	6948.7	6941.2	6945.0	6941.2	6941.2	6948.7	6941.2
5°	6978.0	6981.8	6974.4	6970.7	6981.8	6981.8	6981.8	6974.4	6974.4	6978.0	6974.4
7.5°	7014.9	7022.2	7026.0	7029.6	7037.0	7040.7	7040.7	7037.0	7033.3	7044.4	7029.6
10°	7055.3	7066.5	7088.5	7099.5	7118.0	7118.0	7125.3	7125.3	7118.0	7125.3	7121.6
12.5°	7040.7	7106.8	7143.8	7169.4	7195.2	7217.3	7224.6	7228.4	7224.6	7239.4	7224.6
15°	7066.5	7121.6	7180.5	7224.6	7272.4	7298.2	7305.6	7335.1	7342.4	7346.1	7324.1
17.5°	7026.0	7125.3	7187.8	7254.1	7324.1	7371.9	7416.0	7434.4	7438.2	7445.5	7416.0
20°	6933.8	7044.4	7140.0	7235.8	7316.7	7390.2	7427.1	7478.7	7463.9	7493.4	7452.9
22.5°	6808.8	6933.8	7055.3	7180.5	7265.1	7353.6	7430.7	7467.5	7486.0	7486.0	7441.8
25°	6610.0	6757.3	6889.7	7018.5	7147.4	7254.1	7342.4	7397.7	7408.7	7405.1	7353.6
27.5°	6300.9	6459.1	6613.8	6760.9	6919.2	7044.4	7147.4	7213.6	7232.1	7232.1	7176.8
30°	5874.0	6043.3	6194.1	6370.8	6532.8	6672.6	6816.2	6875.1	6908.2	6908.2	6845.6
32.5°	5366.0	5509.6	5649.4	5822.4	5999.1	6157.3	6293.5	6374.5	6415.0	6411.3	6356.1
35°	4814.0	4883.8	4990.7	5119.4	5277.7	5425.0	5557.4	5634.8	5704.7	5700.9	5649.4
37.5°	4261.8	4243.5	4254.6	4302.4	4401.8	4504.8	4607.9	4681.6	4740.3	4766.2	4755.2
40°	3720.9	3625.2	3533.2	3500.1	3507.4	3544.2	3599.4	3654.7	3720.9	3754.1	3768.8
42.5°	3235.0	3073.2	2911.2	2789.8	2719.8	2697.8	2723.5	2741.8	2782.4	2830.2	2878.1
45°	2845.0	2627.9	2414.4	2226.7	2108.9	2039.0	2024.2	2039.0	2061.1	2108.9	2171.5
47.5°	2524.7	2270.8	2031.6	1821.8	1648.8	1556.9	1531.1	1523.7	1545.8	1589.9	1674.6
50°	2241.3	1987.4	1722.5	1479.5	1299.1	1196.1	1159.3	1144.6	1170.3	1203.5	1280.7
52.5°	1932.2	1682.0	1409.6	1174.0	986.4	879.6	839.1	817.1	831.7	875.9	953.2
55°	1597.3	1365.4	1118.8	875.9	695.6	596.2	548.3	533.7	548.3	596.2	673.5
57.5°	1262.4	1067.3	861.2	633.0	471.0	371.7	323.9	309.2	349.7	368.1	449.0
60°	986.4	828.1	651.5	463.7	323.9	246.6	198.8	187.6	206.1	239.2	305.4
62.5°	739.8	640.4	500.5	331.2	239.2	158.2	132.5	121.5	132.5	158.2	209.8
65°	537.3	460.1	349.7	242.9	161.9	117.8	88.3	81.0	92.0	110.4	154.6
67.5°	368.1	309.2	242.9	169.3	110.4	73.6	62.6	62.6	66.3	81.0	114.1
70°	239.2	202.4	154.6	110.4	73.6	55.2	47.8	40.5	47.8	59.0	77.3
72.5°	151.0	128.8	99.3	77.3	55.2	40.5	33.2	29.5	36.8	44.1	59.0
75°	92.0	70.0	51.5	40.5	29.5	29.5	29.5	14.6	18.3	29.5	36.8
77.5°	55.2	47.8	40.5	33.2	25.8	14.6	14.6	14.6	18.3	22.0	33.2
80°	29.5	25.8	18.3	18.3	14.6	11.0	14.6	11.0	7.4	18.3	22.0
82.5°	18.3	14.6	14.6	14.6	18.3	7.4	11.0	7.4	11.0	14.6	11.0
85°	11.0	11.0	11.0	7.4	18.3	7.4	7.4	3.7	3.7	7.4	7.4
87.5°	0.0	3.7	3.7	0.0	3.7	0.0	3.7	3.7	3.7	3.7	3.7
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°	6933.8	6933.8	6933.8	6933.8	6933.8	6933.8	6933.8	6933.8	6933.8	6933.8	6933.8
2.5°	6945.0	6941.2	6945.0	6941.2	6941.2	6941.2	6945.0	6945.0	6941.2	6941.2	6948.7
5°	6974.4	6974.4	6974.4	6970.7	6967.0	6967.0	6974.4	6974.4	6963.3	6974.4	6974.4
7.5°	7037.0	7026.0	7037.0	7022.2	7014.9	7018.5	7022.2	7014.9	7007.5	7011.2	7011.2
10°	7118.0	7106.8	7106.8	7095.8	7084.8	7077.4	7070.2	7051.6	7033.3	7029.6	7014.9
12.5°	7213.6	7195.2	7184.2	7162.1	7143.8	7118.0	7095.8	7066.5	7029.6	7003.8	6978.0
15°	7309.4	7279.9	7254.1	7217.3	7176.8	7132.6	7084.8	7037.0	6978.0	6926.6	6882.4
17.5°	7386.5	7346.1	7298.2	7239.4	7180.5	7114.3	7044.4	6974.4	6889.7	6823.5	6771.9
20°	7412.3	7353.6	7290.9	7213.6	7136.3	7044.4	6956.0	6864.0	6768.2	6698.4	6639.5
22.5°	7379.3	7309.4	7232.1	7151.1	7048.0	6948.7	6845.6	6738.9	6654.2	6558.5	6503.3
25°	7287.2	7202.6	7118.0	7022.2	6922.9	6812.4	6702.1	6591.7	6488.6	6437.0	6367.2
27.5°	7099.5	7007.5	6915.5	6816.2	6702.1	6591.7	6477.5	6370.8	6282.6	6212.6	6172.1
30°	6768.2	6661.6	6554.8	6448.2	6348.7	6234.6	6127.9	6039.6	5951.2	5896.0	5855.5
32.5°	6260.4	6164.8	6058.0	5954.8	5862.9	5767.2	5678.9	5601.6	5539.0	5502.2	5472.8
35°	5575.8	5480.1	5399.2	5325.6	5248.2	5207.8	5152.6	5108.4	5082.6	5068.0	5064.3
37.5°	4714.5	4659.4	4633.7	4618.9	4604.2	4593.2	4600.5	4618.9	4633.7	4659.4	4688.9
40°	3794.5	3842.3	3857.1	3908.6	3956.4	4019.1	4089.0	4169.9	4236.2	4320.8	4379.6
42.5°	2955.4	3043.7	3146.7	3257.2	3375.0	3489.1	3628.9	3757.7	3875.5	3982.2	4074.2
45°	2270.8	2406.9	2561.6	2719.8	2878.1	3043.7	3213.0	3371.3	3511.1	3625.2	3720.9
47.5°	1770.3	1921.2	2120.0	2315.0	2506.4	2701.5	2889.1	3054.7	3172.5	3282.9	3367.6
50°	1402.2	1575.2	1792.4	2016.9	2226.7	2432.7	2631.5	2786.1	2903.8	2992.2	3054.7
52.5°	1085.7	1291.8	1512.7	1748.2	1972.7	2197.2	2381.2	2524.7	2620.5	2697.8	2745.6
55°	809.7	1012.2	1247.7	1490.6	1718.8	1935.9	2108.9	2234.0	2318.7	2362.8	2388.6
57.5°	585.2	769.3	1004.7	1247.7	1453.7	1659.8	1799.8	1913.8	1961.7	1987.4	1998.4
60°	426.9	596.2	805.9	1015.8	1210.8	1376.4	1497.9	1575.2	1612.0	1626.8	1623.0
62.5°	312.9	460.1	640.4	817.1	975.3	1111.5	1207.1	1258.6	1277.1	1284.4	1273.5
65°	239.2	353.2	507.9	644.1	765.6	864.9	934.9	968.0	979.0	975.3	968.0
67.5°	176.7	265.0	379.1	482.2	570.5	647.8	684.6	714.0	721.4	710.3	699.3
70°	125.2	195.1	276.0	345.9	412.2	456.4	496.8	500.5	500.5	496.8	489.5
72.5°	88.3	136.1	187.6	235.6	276.0	309.2	323.9	334.9	331.2	327.5	320.2
75°	59.0	84.6	136.1	147.3	183.9	195.1	209.8	209.8	213.4	202.4	202.4
77.5°	36.8	59.0	81.0	95.7	110.4	125.2	132.5	132.5	136.1	132.5	132.5
80°	22.0	36.8	44.1	66.3	66.3	77.3	81.0	84.6	77.3	88.3	77.3
82.5°	14.6	22.0	33.2	33.2	40.5	47.8	47.8	51.5	51.5	47.8	47.8
85°	11.0	14.6	18.3	22.0	22.0	25.8	22.0	22.0	25.8	29.5	25.8
87.5°	3.7	7.4	3.7	7.4	7.4	14.6	11.0	11.0	11.0	14.6	14.6
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: P248422

CATALOG NUMBER: LSR8B150D010 EC8B150927 8LBDWOLI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	6933.8	6933.8	6933.8	6933.8
2.5°	6941.2	6945.0	6941.2	6941.2
5°	6974.4	6970.7	6974.4	6967.0
7.5°	7000.2	7000.2	6996.5	6996.5
10°	7000.2	6985.5	6985.5	6985.5
12.5°	6945.0	6926.6	6915.5	6908.2
15°	6849.2	6816.2	6801.4	6797.7
17.5°	6724.1	6694.6	6676.3	6665.3
20°	6580.6	6551.1	6529.0	6532.8
22.5°	6455.5	6422.4	6407.6	6400.2
25°	6330.4	6289.8	6278.8	6271.4
27.5°	6127.9	6105.8	6094.8	6083.8
30°	5818.7	5807.7	5789.2	5815.0
32.5°	5461.8	5443.3	5428.6	5439.7
35°	5068.0	5056.9	5068.0	5060.6
37.5°	4707.3	4718.2	4733.1	4740.3
40°	4423.8	4464.3	4479.1	4486.4
42.5°	4140.4	4188.3	4217.7	4236.2
45°	3790.8	3838.6	3871.8	3894.0
47.5°	3430.1	3470.6	3503.7	3500.1
50°	3102.6	3124.7	3139.3	3154.2
52.5°	2771.3	2771.3	2775.0	2775.0
55°	2396.0	2388.6	2384.9	2388.6
57.5°	1983.7	1976.4	1972.7	1961.7
60°	1608.4	1586.2	1571.5	1571.5
62.5°	1258.6	1232.9	1222.0	1218.3
65°	945.8	942.2	920.0	916.4
67.5°	684.6	669.8	655.1	658.8
70°	482.2	460.1	460.1	452.7
72.5°	312.9	301.7	298.1	298.1
75°	195.1	195.1	187.6	202.4
77.5°	128.8	128.8	125.2	128.8
80°	77.3	77.3	77.3	73.6
82.5°	47.8	51.5	47.8	47.8
85°	25.8	29.5	22.0	33.2
87.5°	14.6	18.3	14.6	18.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)