

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: P248424

Luminaire Tested: **LD8B200D010 ER8B2009727 8LBDW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248424  
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: LD8B200D010 ER8B2009727 8LBDWOLI  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15812.0 lumens  
Efficiency: N/A  
Efficacy: 70.8 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

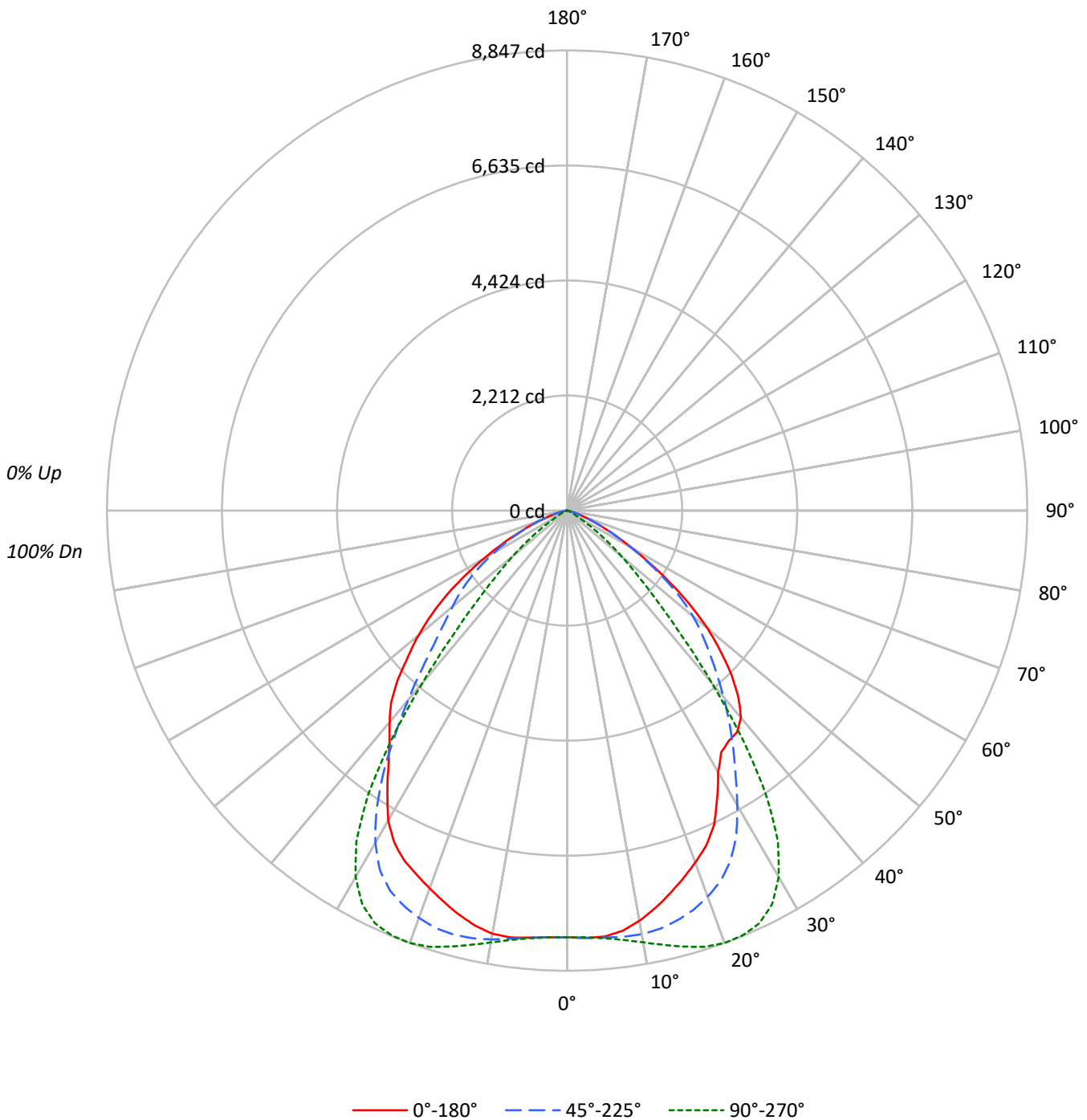
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	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°	788.8	5.0
10°-20°	2336.9	14.8
20°-30°	3565.1	22.5
30°-40°	3720.2	23.5
40°-50°	2794.4	17.7
50°-60°	1719.3	10.9
60°-70°	699.7	4.4
70°-80°	164.8	1.0
80°-90°	22.7	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°	6690.8	42.3
0°-40°	10411.0	65.8
0°-60°	14924.7	94.4
0°-90°	15812.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15812.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	8203	8203	8203	8203	8203	
5°	8220	8242	8251	8242	8242	778
15°	7624	8159	8677	8438	8042	2148
25°	6679	7428	8751	8059	7419	3036
35°	5412	5564	6666	6161	5987	3417
45°	4467	3866	2412	3601	4606	3408
55°	2412	2290	631	2290	2826	2168
65°	753	762	96	1023	1084	786
75°	131	131	17	231	240	157
85°	13	13	4	30	39	18
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°	8202.7	8202.7	8202.7	8202.7	8202.7	8202.7	8202.7	8202.7	8202.7	8202.7	8202.7
2.5°	8224.5	8211.4	8224.5	8224.5	8228.9	8220.2	8224.5	8228.9	8220.2	8220.2	8220.2
5°	8220.2	8211.4	8220.2	8215.8	8224.5	8224.5	8233.3	8233.3	8241.9	8241.9	8255.0
7.5°	8150.5	8133.1	8150.5	8163.6	8172.2	8189.7	8211.4	8228.9	8246.3	8263.7	8285.5
10°	8006.8	8006.8	8019.9	8046.0	8072.1	8102.6	8141.8	8185.3	8228.9	8268.0	8307.2
12.5°	7828.3	7815.2	7841.3	7876.2	7915.4	7963.3	8024.3	8089.6	8159.2	8237.5	8298.6
15°	7623.7	7610.6	7641.1	7675.9	7723.8	7793.5	7867.6	7954.6	8054.7	8159.2	8259.4
17.5°	7414.7	7410.3	7440.8	7488.7	7527.9	7601.9	7697.7	7802.1	7915.4	8054.7	8185.3
20°	7201.4	7197.0	7227.5	7266.7	7318.9	7388.6	7484.4	7606.2	7741.2	7898.0	8050.4
22.5°	6979.3	6983.7	7009.8	7053.3	7096.9	7170.8	7271.0	7392.9	7540.9	7710.7	7880.6
25°	6678.9	6657.1	6692.0	6735.5	6809.5	6870.4	6966.3	7096.9	7249.2	7427.8	7628.1
27.5°	6243.5	6239.1	6269.7	6308.8	6374.1	6448.1	6552.6	6687.6	6848.7	7044.6	7240.5
30°	5808.1	5816.8	5829.9	5869.1	5912.6	5986.6	6091.1	6204.4	6356.7	6543.9	6752.9
32.5°	5512.0	5512.0	5529.5	5555.6	5586.0	5625.3	5699.3	5782.0	5899.6	6030.2	6182.5
35°	5411.9	5394.5	5411.9	5416.2	5420.6	5429.3	5442.3	5468.5	5507.6	5564.3	5620.9
37.5°	5368.4	5355.3	5355.3	5337.9	5316.1	5290.0	5255.2	5216.0	5172.5	5115.8	5072.3
40°	5198.6	5189.9	5181.1	5163.8	5115.8	5063.6	5006.9	4915.5	4815.4	4676.0	4536.8
42.5°	4872.1	4863.3	4859.0	4824.1	4780.6	4719.6	4654.3	4558.5	4432.3	4253.7	4053.5
45°	4467.1	4449.7	4436.7	4406.2	4375.6	4323.4	4262.5	4175.3	4049.1	3866.3	3626.8
47.5°	3996.9	3988.2	3983.8	3970.8	3940.3	3909.8	3870.7	3801.0	3687.7	3513.6	3265.4
50°	3522.3	3504.9	3513.6	3509.3	3496.2	3474.5	3448.3	3400.4	3313.3	3156.6	2930.2
52.5°	2978.0	2978.0	2973.8	2986.8	2991.1	2986.8	2991.1	2938.9	2864.9	2747.3	2555.7
55°	2412.0	2412.0	2425.1	2442.6	2459.9	2464.3	2459.9	2438.2	2385.9	2290.1	2120.3
57.5°	1880.8	1872.2	1898.3	1924.4	1941.9	1959.2	1946.1	1928.8	1898.3	1819.9	1689.3
60°	1432.4	1432.4	1449.8	1467.3	1484.6	1502.1	1497.7	1493.4	1467.3	1415.0	1310.6
62.5°	1053.6	1058.0	1058.0	1071.1	1088.4	1105.9	1118.9	1105.9	1092.8	1058.0	988.3
65°	753.2	748.8	753.2	766.3	779.4	796.8	805.5	801.1	788.0	761.9	709.7
67.5°	505.1	500.7	518.1	522.4	531.2	548.6	544.3	548.6	544.3	522.4	479.0
70°	330.9	322.2	330.9	326.5	339.6	344.0	352.6	357.0	352.6	339.6	326.5
72.5°	204.6	200.3	204.6	209.0	213.4	217.6	226.4	226.4	222.0	213.4	195.9
75°	130.6	117.5	121.9	113.2	121.9	121.9	130.6	135.0	130.6	130.6	121.9
77.5°	78.4	78.4	78.4	78.4	78.4	78.4	78.4	82.8	87.0	78.4	74.0
80°	39.2	39.2	43.6	43.6	43.6	47.9	43.6	43.6	43.6	47.9	34.8
82.5°	30.5	26.1	26.1	26.1	30.5	26.1	26.1	26.1	26.1	26.1	26.1
85°	13.1	17.4	13.1	8.7	13.1	13.1	17.4	13.1	13.1	13.1	17.4
87.5°	4.4	4.4	0.0	0.0	0.0	4.4	0.0	4.4	4.4	8.7	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°	8202.7	8202.7	8202.7	8202.7	8202.7	8202.7	8202.7	8202.7	8202.7	8202.7	8202.7
2.5°	8224.5	8215.8	8215.8	8211.4	8220.2	8211.4	8215.8	8211.4	8211.4	8220.2	8211.4
5°	8255.0	8259.4	8250.6	8246.3	8259.4	8259.4	8259.4	8250.6	8250.6	8255.0	8250.6
7.5°	8298.6	8307.2	8311.6	8316.0	8324.7	8329.1	8329.1	8324.7	8320.3	8333.4	8316.0
10°	8346.4	8359.5	8385.6	8398.7	8420.5	8420.5	8429.2	8429.2	8420.5	8429.2	8424.8
12.5°	8329.1	8407.4	8450.9	8481.4	8511.9	8538.0	8546.7	8551.1	8546.7	8564.2	8546.7
15°	8359.5	8424.8	8494.5	8546.7	8603.3	8633.7	8642.5	8677.3	8686.0	8690.4	8664.3
17.5°	8311.6	8429.2	8503.1	8581.5	8664.3	8720.9	8773.1	8794.9	8799.3	8807.9	8773.1
20°	8202.7	8333.4	8446.6	8559.8	8655.6	8742.6	8786.2	8847.1	8829.8	8864.6	8816.7
22.5°	8054.7	8202.7	8346.4	8494.5	8594.6	8699.1	8790.6	8834.0	8855.9	8855.9	8803.6
25°	7819.6	7993.8	8150.5	8302.8	8455.3	8581.5	8686.0	8751.4	8764.5	8760.1	8699.1
27.5°	7453.9	7641.1	7824.0	7998.2	8185.3	8333.4	8455.3	8533.6	8555.4	8555.4	8490.1
30°	6948.8	7149.1	7327.6	7536.6	7728.2	7893.7	8063.5	8133.1	8172.2	8172.2	8098.3
32.5°	6348.0	6517.8	6683.2	6887.9	7096.9	7284.1	7445.2	7540.9	7588.9	7584.5	7519.2
35°	5694.9	5777.6	5903.9	6056.3	6243.5	6417.6	6574.4	6665.9	6748.5	6744.2	6683.2
37.5°	5041.8	5020.0	5033.1	5089.7	5207.2	5329.2	5451.1	5538.2	5607.8	5638.4	5625.3
40°	4401.8	4288.6	4179.7	4140.6	4149.2	4192.8	4258.1	4323.4	4401.8	4441.0	4458.4
42.5°	3827.1	3635.5	3443.9	3300.3	3217.5	3191.4	3221.9	3243.6	3291.5	3348.1	3404.8
45°	3365.6	3108.7	2856.1	2634.1	2494.8	2412.0	2394.6	2412.0	2438.2	2494.8	2568.8
47.5°	2986.8	2686.3	2403.4	2155.2	1950.5	1841.7	1811.3	1802.5	1828.6	1880.8	1981.0
50°	2651.5	2351.1	2037.7	1750.2	1536.9	1415.0	1371.5	1354.0	1384.5	1423.7	1515.1
52.5°	2285.8	1989.7	1667.6	1388.9	1166.9	1040.6	992.7	966.6	983.9	1036.2	1127.7
55°	1889.6	1615.3	1323.6	1036.2	822.9	705.4	648.7	631.3	648.7	705.4	796.8
57.5°	1493.4	1262.6	1018.8	748.8	557.3	439.8	383.1	365.7	413.7	435.4	531.2
60°	1166.9	979.7	770.7	548.6	383.1	291.7	235.1	222.0	243.9	283.0	361.4
62.5°	875.2	757.6	592.1	391.8	283.0	187.2	156.7	143.7	156.7	187.2	248.2
65°	635.7	544.3	413.7	287.3	191.5	139.3	104.5	95.8	108.9	130.6	182.9
67.5°	435.4	365.7	287.3	200.3	130.6	87.0	74.0	74.0	78.4	95.8	135.0
70°	283.0	239.5	182.9	130.6	87.0	65.3	56.6	47.9	56.6	69.7	91.4
72.5°	178.5	152.3	117.5	91.4	65.3	47.9	39.2	34.8	43.6	52.2	69.7
75°	108.9	82.8	60.9	47.9	34.8	34.8	34.8	17.4	21.7	34.8	43.6
77.5°	65.3	56.6	47.9	39.2	30.5	17.4	17.4	17.4	21.7	26.1	39.2
80°	34.8	30.5	21.7	21.7	17.4	13.1	17.4	13.1	8.7	21.7	26.1
82.5°	21.7	17.4	17.4	17.4	21.7	8.7	13.1	8.7	13.1	17.4	13.1
85°	13.1	13.1	13.1	8.7	21.7	8.7	8.7	4.4	4.4	8.7	8.7
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



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	8202.7	8202.7	8202.7	8202.7	8202.7	8202.7	8202.7	8202.7	8202.7	8202.7	8202.7
2.5°	8215.8	8211.4	8215.8	8211.4	8211.4	8211.4	8215.8	8215.8	8211.4	8211.4	8220.2
5°	8250.6	8250.6	8250.6	8246.3	8241.9	8241.9	8250.6	8250.6	8237.5	8250.6	8250.6
7.5°	8324.7	8311.6	8324.7	8307.2	8298.6	8302.8	8307.2	8298.6	8289.8	8294.2	8294.2
10°	8420.5	8407.4	8407.4	8394.4	8381.3	8372.5	8363.9	8342.1	8320.3	8316.0	8298.6
12.5°	8533.6	8511.9	8498.9	8472.7	8450.9	8420.5	8394.4	8359.5	8316.0	8285.5	8255.0
15°	8646.8	8612.0	8581.5	8538.0	8490.1	8437.8	8381.3	8324.7	8255.0	8194.1	8141.8
17.5°	8738.2	8690.4	8633.7	8564.2	8494.5	8416.1	8333.4	8250.6	8150.5	8072.1	8011.2
20°	8768.7	8699.1	8625.1	8533.6	8442.2	8333.4	8228.9	8120.0	8006.8	7924.1	7854.5
22.5°	8729.6	8646.8	8555.4	8459.7	8337.7	8220.2	8098.3	7972.0	7871.8	7758.7	7693.4
25°	8620.7	8520.6	8420.5	8307.2	8189.7	8059.1	7928.5	7797.9	7675.9	7615.0	7532.3
27.5°	8398.7	8289.8	8181.0	8063.5	7928.5	7797.9	7662.9	7536.6	7432.2	7349.4	7301.5
30°	8006.8	7880.6	7754.3	7628.1	7510.5	7375.5	7249.2	7144.7	7040.2	6974.9	6927.1
32.5°	7405.9	7292.8	7166.6	7044.6	6935.8	6822.6	6718.1	6626.7	6552.6	6509.0	6474.2
35°	6596.2	6482.9	6387.2	6300.1	6208.6	6160.8	6095.5	6043.2	6012.7	5995.3	5991.0
37.5°	5577.3	5512.0	5481.5	5464.2	5446.7	5433.7	5442.3	5464.2	5481.5	5512.0	5546.8
40°	4488.9	4545.4	4562.9	4623.8	4680.4	4754.5	4837.2	4933.0	5011.3	5111.4	5181.1
42.5°	3496.2	3600.7	3722.6	3853.2	3992.5	4127.5	4293.0	4445.3	4584.6	4710.9	4819.8
45°	2686.3	2847.4	3030.3	3217.5	3404.8	3600.7	3801.0	3988.2	4153.6	4288.6	4401.8
47.5°	2094.2	2272.8	2507.9	2738.6	2965.0	3195.8	3417.8	3613.7	3753.0	3883.7	3983.8
50°	1658.8	1863.5	2120.3	2385.9	2634.1	2877.9	3113.0	3295.9	3435.3	3539.8	3613.7
52.5°	1284.4	1528.2	1789.4	2068.1	2333.7	2599.3	2816.9	2986.8	3100.0	3191.4	3248.0
55°	957.8	1197.3	1476.0	1763.3	2033.3	2290.1	2494.8	2642.9	2743.0	2795.2	2825.7
57.5°	692.3	910.0	1188.6	1476.0	1719.8	1963.6	2129.1	2264.0	2320.6	2351.1	2364.2
60°	505.1	705.4	953.5	1201.7	1432.4	1628.4	1772.1	1863.5	1907.0	1924.4	1920.0
62.5°	370.1	544.3	757.6	966.6	1153.8	1314.8	1428.1	1489.0	1510.8	1519.5	1506.5
65°	283.0	417.9	600.8	761.9	905.6	1023.1	1105.9	1145.1	1158.1	1153.8	1145.1
67.5°	209.0	313.5	448.5	570.4	674.9	766.3	809.9	844.7	853.3	840.3	827.2
70°	148.1	230.8	326.5	409.3	487.6	539.9	587.7	592.1	592.1	587.7	579.1
72.5°	104.5	161.1	222.0	278.7	326.5	365.7	383.1	396.2	391.8	387.5	378.8
75°	69.7	100.1	161.1	174.2	217.6	230.8	248.2	248.2	252.5	239.5	239.5
77.5°	43.6	69.7	95.8	113.2	130.6	148.1	156.7	156.7	161.1	156.7	156.7
80°	26.1	43.6	52.2	78.4	78.4	91.4	95.8	100.1	91.4	104.5	91.4
82.5°	17.4	26.1	39.2	39.2	47.9	56.6	56.6	60.9	60.9	56.6	56.6
85°	13.1	17.4	21.7	26.1	26.1	30.5	26.1	26.1	30.5	34.8	30.5
87.5°	4.4	8.7	4.4	8.7	8.7	17.4	13.1	13.1	13.1	17.4	17.4
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: P248424

CATALOG NUMBER: LD8B200D010 ER8B2009727 8LBDW0LI

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	8202.7	8202.7	8202.7	8202.7
2.5°	8211.4	8215.8	8211.4	8211.4
5°	8250.6	8246.3	8250.6	8241.9
7.5°	8281.1	8281.1	8276.7	8276.7
10°	8281.1	8263.7	8263.7	8263.7
12.5°	8215.8	8194.1	8181.0	8172.2
15°	8102.6	8063.5	8046.0	8041.6
17.5°	7954.6	7919.8	7898.0	7884.9
20°	7784.8	7749.9	7723.8	7728.2
22.5°	7636.7	7597.6	7580.1	7571.4
25°	7488.7	7440.8	7427.8	7419.1
27.5°	7249.2	7223.1	7210.0	7197.0
30°	6883.5	6870.4	6848.7	6879.1
32.5°	6461.2	6439.4	6422.0	6435.1
35°	5995.3	5982.2	5995.3	5986.6
37.5°	5568.7	5581.7	5599.1	5607.8
40°	5233.4	5281.3	5298.7	5307.4
42.5°	4898.2	4954.7	4989.6	5011.3
45°	4484.5	4541.1	4580.3	4606.5
47.5°	4057.8	4105.8	4144.9	4140.6
50°	3670.4	3696.5	3713.8	3731.3
52.5°	3278.4	3278.4	3282.8	3282.8
55°	2834.4	2825.7	2821.3	2825.7
57.5°	2346.7	2338.1	2333.7	2320.6
60°	1902.7	1876.6	1859.1	1859.1
62.5°	1489.0	1458.5	1445.5	1441.2
65°	1118.9	1114.5	1088.4	1084.1
67.5°	809.9	792.4	775.0	779.4
70°	570.4	544.3	544.3	535.5
72.5°	370.1	357.0	352.6	352.6
75°	230.8	230.8	222.0	239.5
77.5°	152.3	152.3	148.1	152.3
80°	91.4	91.4	91.4	87.0
82.5°	56.6	60.9	56.6	56.6
85°	30.5	34.8	26.1	39.2
87.5°	17.4	21.7	17.4	21.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)