

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: P248432

Luminaire Tested: **LD8B175D010 ER8B175930 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248432
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: LD8B175D010 ER8B175930 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15909.2 lumens
Efficiency: N/A
Efficacy: 89.8 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

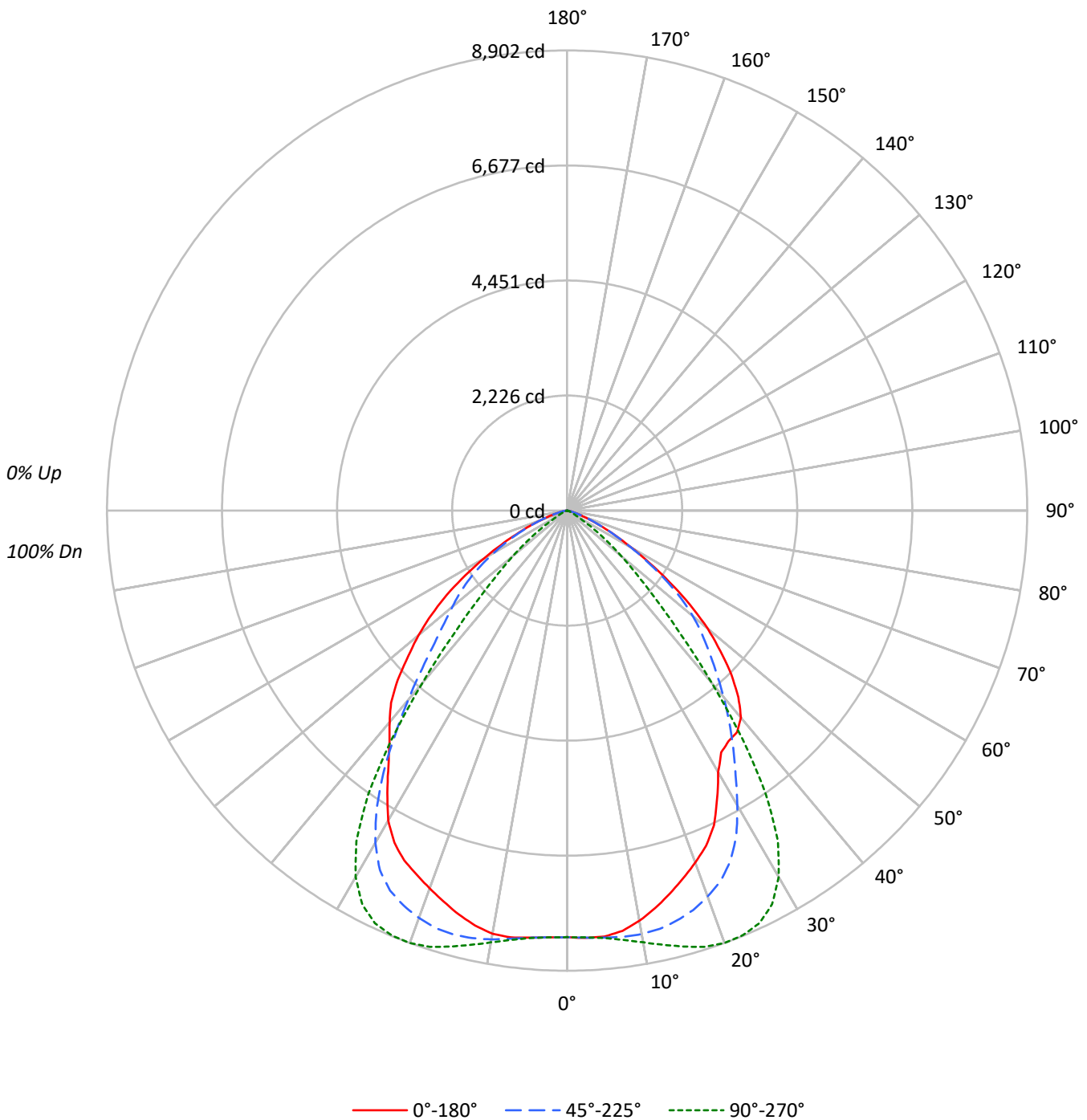
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	793.7	5.0
10°-20°	2351.2	14.8
20°-30°	3587.0	22.5
30°-40°	3743.1	23.5
40°-50°	2811.6	17.7
50°-60°	1729.9	10.9
60°-70°	704.0	4.4
70°-80°	165.9	1.0
80°-90°	22.8	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°	6731.9	42.3
0°-40°	10475.1	65.8
0°-60°	15016.5	94.4
0°-90°	15909.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15909.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8253	8253	8253	8253	8253	
5°	8271	8293	8301	8293	8293	783
15°	7671	8209	8731	8490	8091	2161
25°	6720	7474	8805	8109	7465	3055
35°	5445	5598	6707	6199	6024	3438
45°	4495	3890	2427	3623	4635	3429
55°	2427	2304	635	2304	2843	2181
65°	758	767	96	1029	1091	790
75°	131	131	18	232	241	158
85°	13	13	4	31	40	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°	8253.1	8253.1	8253.1	8253.1	8253.1	8253.1	8253.1	8253.1	8253.1	8253.1	8253.1
2.5°	8275.1	8261.9	8275.1	8275.1	8279.5	8270.7	8275.1	8279.5	8270.7	8270.7	8270.7
5°	8270.7	8261.9	8270.7	8266.4	8275.1	8275.1	8283.9	8283.9	8292.6	8292.6	8305.8
7.5°	8200.7	8183.2	8200.7	8213.8	8222.5	8240.0	8261.9	8279.5	8297.0	8314.6	8336.4
10°	8056.1	8056.1	8069.2	8095.5	8121.8	8152.4	8191.8	8235.7	8279.5	8318.8	8358.3
12.5°	7876.5	7863.3	7889.6	7924.6	7964.0	8012.3	8073.6	8139.4	8209.4	8288.2	8349.7
15°	7670.6	7657.4	7688.0	7723.1	7771.3	7841.4	7915.9	8003.5	8104.3	8209.4	8310.2
17.5°	7460.3	7455.9	7486.5	7534.8	7574.3	7648.6	7745.1	7850.1	7964.0	8104.3	8235.7
20°	7245.7	7241.3	7271.9	7311.4	7364.0	7434.0	7530.4	7653.0	7788.8	7946.5	8099.9
22.5°	7022.2	7026.7	7052.9	7096.7	7140.5	7215.0	7315.6	7438.4	7587.3	7758.1	7929.1
25°	6719.9	6698.1	6733.1	6777.0	6851.3	6912.6	7009.2	7140.5	7293.8	7473.5	7674.9
27.5°	6281.9	6277.5	6308.2	6347.6	6413.2	6487.8	6592.9	6728.7	6890.8	7087.9	7285.0
30°	5843.8	5852.5	5865.7	5905.2	5948.9	6023.5	6128.6	6242.5	6395.8	6584.1	6794.4
32.5°	5545.9	5545.9	5563.5	5589.8	5620.4	5659.8	5734.4	5817.5	5935.8	6067.3	6220.5
35°	5445.1	5427.7	5445.1	5449.5	5453.9	5462.7	5475.7	5502.2	5541.6	5598.5	5655.4
37.5°	5401.4	5388.2	5388.2	5370.7	5348.7	5322.5	5287.4	5248.1	5204.2	5147.3	5103.6
40°	5230.6	5221.7	5213.0	5195.5	5147.3	5094.7	5037.8	4945.7	4845.0	4704.8	4564.7
42.5°	4902.0	4893.3	4888.8	4853.8	4810.0	4748.7	4683.0	4586.6	4459.6	4279.9	4078.4
45°	4494.6	4477.0	4463.9	4433.3	4402.5	4350.0	4288.7	4201.1	4074.1	3890.1	3649.1
47.5°	4021.5	4012.7	4008.2	3995.2	3964.5	3933.8	3894.5	3824.4	3710.4	3535.2	3285.5
50°	3543.9	3526.4	3535.2	3530.9	3517.7	3495.8	3469.5	3421.3	3333.6	3176.0	2948.2
52.5°	2996.3	2996.3	2992.1	3005.2	3009.5	3005.2	3009.5	2957.0	2882.5	2764.2	2571.5
55°	2426.9	2426.9	2440.1	2457.6	2475.1	2479.4	2475.1	2453.2	2400.6	2304.2	2133.4
57.5°	1892.4	1883.7	1910.0	1936.2	1953.8	1971.3	1958.2	1940.7	1910.0	1831.0	1699.7
60°	1441.3	1441.3	1458.8	1476.2	1493.7	1511.3	1507.0	1502.6	1476.2	1423.7	1318.6
62.5°	1060.1	1064.5	1064.5	1077.6	1095.1	1112.7	1125.8	1112.7	1099.6	1064.5	994.4
65°	757.8	753.4	757.8	771.0	784.1	801.6	810.5	806.0	792.9	766.7	714.1
67.5°	508.1	503.8	521.3	525.6	534.5	552.0	547.6	552.0	547.6	525.6	481.9
70°	332.9	324.2	332.9	328.6	341.7	346.1	354.8	359.2	354.8	341.7	328.6
72.5°	205.9	201.6	205.9	210.3	214.7	218.9	227.8	227.8	223.4	214.7	197.1
75°	131.4	118.3	122.6	113.9	122.6	122.6	131.4	135.8	131.4	131.4	122.6
77.5°	78.9	78.9	78.9	78.9	78.9	78.9	78.9	83.3	87.6	78.9	74.5
80°	39.5	39.5	43.8	43.8	43.8	48.2	43.8	43.8	43.8	48.2	35.1
82.5°	30.6	26.2	26.2	26.2	30.6	26.2	26.2	26.2	26.2	26.2	26.2
85°	13.2	17.5	13.2	8.7	13.2	13.2	17.5	13.2	13.2	13.2	17.5
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°	8253.1	8253.1	8253.1	8253.1	8253.1	8253.1	8253.1	8253.1	8253.1	8253.1	8253.1
2.5°	8275.1	8266.4	8266.4	8261.9	8270.7	8261.9	8266.4	8261.9	8261.9	8270.7	8261.9
5°	8305.8	8310.2	8301.3	8297.0	8310.2	8310.2	8310.2	8301.3	8301.3	8305.8	8301.3
7.5°	8349.7	8358.3	8362.7	8367.1	8375.9	8380.3	8380.3	8375.9	8371.5	8384.6	8367.1
10°	8397.7	8411.0	8437.2	8450.3	8472.3	8472.3	8481.0	8481.0	8472.3	8481.0	8476.7
12.5°	8380.3	8459.1	8502.9	8533.5	8564.2	8590.4	8599.3	8603.7	8599.3	8616.8	8599.3
15°	8411.0	8476.7	8546.7	8599.3	8656.1	8686.9	8695.6	8730.7	8739.4	8743.8	8717.6
17.5°	8362.7	8481.0	8555.5	8634.3	8717.6	8774.5	8827.0	8848.9	8853.4	8862.1	8827.0
20°	8253.1	8384.6	8498.5	8612.4	8708.8	8796.4	8840.2	8901.5	8884.0	8919.1	8870.9
22.5°	8104.3	8253.1	8397.7	8546.7	8647.5	8752.7	8844.6	8888.3	8910.3	8910.3	8857.7
25°	7867.7	8043.0	8200.7	8353.9	8507.3	8634.3	8739.4	8805.1	8818.3	8814.0	8752.7
27.5°	7499.7	7688.0	7872.1	8047.3	8235.7	8384.6	8507.3	8586.1	8608.0	8608.0	8542.4
30°	6991.6	7193.0	7372.7	7582.9	7775.7	7942.2	8113.0	8183.2	8222.5	8222.5	8148.1
32.5°	6387.0	6557.8	6724.3	6930.2	7140.5	7328.9	7491.0	7587.3	7635.6	7631.1	7565.4
35°	5730.0	5813.2	5940.3	6093.5	6281.9	6457.1	6614.8	6706.8	6790.0	6785.6	6724.3
37.5°	5072.7	5050.9	5064.1	5121.1	5239.2	5362.0	5484.6	5572.3	5642.2	5673.0	5659.8
40°	4428.8	4315.0	4205.4	4166.1	4174.7	4218.5	4284.3	4350.0	4428.8	4468.3	4485.8
42.5°	3850.6	3657.9	3465.0	3320.6	3237.3	3211.0	3241.7	3263.6	3311.8	3368.7	3425.8
45°	3386.3	3127.8	2873.7	2650.4	2510.1	2426.9	2409.4	2426.9	2453.2	2510.1	2584.6
47.5°	3005.2	2702.8	2418.1	2168.5	1962.5	1853.0	1822.4	1813.7	1839.9	1892.4	1993.1
50°	2667.8	2365.5	2050.2	1761.0	1546.4	1423.7	1380.0	1362.4	1393.1	1432.4	1524.4
52.5°	2299.8	2002.0	1677.8	1397.4	1174.0	1047.0	998.8	972.5	990.0	1042.6	1134.6
55°	1901.2	1625.2	1331.7	1042.6	828.0	709.7	652.6	635.2	652.6	709.7	801.6
57.5°	1502.6	1270.4	1025.0	753.4	560.7	442.5	385.4	368.0	416.2	438.1	534.5
60°	1174.0	985.7	775.4	552.0	385.4	293.5	236.5	223.4	245.4	284.7	363.5
62.5°	880.5	762.2	595.7	394.3	284.7	188.3	157.7	144.6	157.7	188.3	249.8
65°	639.6	547.6	416.2	289.1	192.7	140.2	105.1	96.4	109.5	131.4	184.1
67.5°	438.1	368.0	289.1	201.6	131.4	87.6	74.5	74.5	78.9	96.4	135.8
70°	284.7	240.9	184.1	131.4	87.6	65.7	56.9	48.2	56.9	70.1	91.9
72.5°	179.7	153.2	118.3	91.9	65.7	48.2	39.5	35.1	43.8	52.6	70.1
75°	109.5	83.3	61.3	48.2	35.1	35.1	35.1	17.5	21.9	35.1	43.8
77.5°	65.7	56.9	48.2	39.5	30.6	17.5	17.5	17.5	21.9	26.2	39.5
80°	35.1	30.6	21.9	21.9	17.5	13.2	17.5	13.2	8.7	21.9	26.2
82.5°	21.9	17.5	17.5	17.5	21.9	8.7	13.2	8.7	13.2	17.5	13.2
85°	13.2	13.2	13.2	8.7	21.9	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°	8253.1	8253.1	8253.1	8253.1	8253.1	8253.1	8253.1	8253.1	8253.1	8253.1	8253.1
2.5°	8266.4	8261.9	8266.4	8261.9	8261.9	8261.9	8266.4	8266.4	8261.9	8261.9	8270.7
5°	8301.3	8301.3	8301.3	8297.0	8292.6	8292.6	8301.3	8301.3	8288.2	8301.3	8301.3
7.5°	8375.9	8362.7	8375.9	8358.3	8349.7	8353.9	8358.3	8349.7	8340.8	8345.2	8345.2
10°	8472.3	8459.1	8459.1	8446.0	8432.8	8424.0	8415.3	8393.4	8371.5	8367.1	8349.7
12.5°	8586.1	8564.2	8551.1	8524.8	8502.9	8472.3	8446.0	8411.0	8367.1	8336.4	8305.8
15°	8700.0	8665.0	8634.3	8590.4	8542.4	8489.7	8432.8	8375.9	8305.8	8244.5	8191.8
17.5°	8792.0	8743.8	8686.9	8616.8	8546.7	8467.8	8384.6	8301.3	8200.7	8121.8	8060.4
20°	8822.6	8752.7	8678.1	8586.1	8494.2	8384.6	8279.5	8170.0	8056.1	7972.9	7902.7
22.5°	8783.3	8700.0	8608.0	8511.6	8389.0	8270.7	8148.1	8021.0	7920.2	7806.4	7740.7
25°	8673.7	8573.0	8472.3	8358.3	8240.0	8108.6	7977.3	7845.9	7723.1	7661.8	7578.6
27.5°	8450.3	8340.8	8231.3	8113.0	7977.3	7845.9	7710.0	7582.9	7477.9	7394.6	7346.5
30°	8056.1	7929.1	7802.0	7674.9	7556.7	7420.8	7293.8	7188.6	7083.5	7017.8	6969.7
32.5°	7451.5	7337.6	7210.6	7087.9	6978.4	6864.6	6759.4	6667.4	6592.9	6549.1	6514.0
35°	6636.8	6522.8	6426.5	6338.9	6246.8	6198.7	6133.0	6080.3	6049.7	6032.2	6027.8
37.5°	5611.6	5545.9	5515.2	5497.7	5480.2	5467.1	5475.7	5497.7	5515.2	5545.9	5580.9
40°	4516.5	4573.3	4590.9	4652.3	4709.2	4783.6	4866.9	4963.3	5042.1	5142.9	5213.0
42.5°	3517.7	3622.8	3745.5	3876.9	4017.1	4152.9	4319.3	4472.7	4612.8	4739.8	4849.4
45°	2702.8	2864.9	3049.0	3237.3	3425.8	3622.8	3824.4	4012.7	4179.2	4315.0	4428.8
47.5°	2107.1	2286.7	2523.3	2755.5	2983.2	3215.5	3438.8	3636.0	3776.1	3907.6	4008.2
50°	1669.1	1875.0	2133.4	2400.6	2650.4	2895.5	3132.2	3316.1	3456.4	3561.5	3636.0
52.5°	1292.3	1537.6	1800.4	2080.8	2348.0	2615.3	2834.2	3005.2	3119.1	3211.0	3267.9
55°	963.7	1204.7	1485.1	1774.2	2045.8	2304.2	2510.1	2659.1	2759.9	2812.4	2843.1
57.5°	696.5	915.6	1195.9	1485.1	1730.4	1975.7	2142.1	2278.0	2334.9	2365.5	2378.8
60°	508.1	709.7	959.4	1209.1	1441.3	1638.3	1783.0	1875.0	1918.8	1936.2	1931.8
62.5°	372.4	547.6	762.2	972.5	1160.8	1322.9	1436.9	1498.2	1520.2	1528.8	1515.7
65°	284.7	420.5	604.6	766.7	911.1	1029.4	1112.7	1152.2	1165.3	1160.8	1152.2
67.5°	210.3	315.4	451.3	573.8	679.0	771.0	814.9	849.9	858.6	845.5	832.3
70°	149.0	232.2	328.6	411.9	490.5	543.2	591.3	595.7	595.7	591.3	582.7
72.5°	105.1	162.1	223.4	280.4	328.6	368.0	385.4	398.6	394.3	389.9	381.1
75°	70.1	100.8	162.1	175.2	218.9	232.2	249.8	249.8	254.0	240.9	240.9
77.5°	43.8	70.1	96.4	113.9	131.4	149.0	157.7	157.7	162.1	157.7	157.7
80°	26.2	43.8	52.6	78.9	78.9	91.9	96.4	100.8	91.9	105.1	91.9
82.5°	17.5	26.2	39.5	39.5	48.2	56.9	56.9	61.3	61.3	56.9	56.9
85°	13.2	17.5	21.9	26.2	26.2	30.6	26.2	26.2	30.6	35.1	30.6
87.5°	4.4	8.7	4.4	8.7	8.7	17.5	13.2	13.2	13.2	17.5	17.5
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: P248432

CATALOG NUMBER: LD8B175D010 ER8B175930 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	8253.1	8253.1	8253.1	8253.1
2.5°	8261.9	8266.4	8261.9	8261.9
5°	8301.3	8297.0	8301.3	8292.6
7.5°	8332.1	8332.1	8327.7	8327.7
10°	8332.1	8314.6	8314.6	8314.6
12.5°	8266.4	8244.5	8231.3	8222.5
15°	8152.4	8113.0	8095.5	8091.0
17.5°	8003.5	7968.4	7946.5	7933.4
20°	7832.7	7797.6	7771.3	7775.7
22.5°	7683.7	7644.3	7626.7	7618.0
25°	7534.8	7486.5	7473.5	7464.6
27.5°	7293.8	7267.6	7254.3	7241.3
30°	6925.9	6912.6	6890.8	6921.4
32.5°	6500.9	6478.9	6461.6	6474.7
35°	6032.2	6019.0	6032.2	6023.5
37.5°	5602.9	5616.0	5633.6	5642.2
40°	5265.6	5313.8	5331.4	5340.0
42.5°	4928.3	4985.2	5020.3	5042.1
45°	4512.0	4569.0	4608.4	4634.8
47.5°	4082.8	4131.0	4170.3	4166.1
50°	3692.9	3719.3	3736.6	3754.2
52.5°	3298.7	3298.7	3303.0	3303.0
55°	2851.8	2843.1	2838.7	2843.1
57.5°	2361.2	2352.4	2348.0	2334.9
60°	1914.3	1888.1	1870.5	1870.5
62.5°	1498.2	1467.5	1454.4	1450.0
65°	1125.8	1121.4	1095.1	1090.7
67.5°	814.9	797.3	779.8	784.1
70°	573.8	547.6	547.6	538.9
72.5°	372.4	359.2	354.8	354.8
75°	232.2	232.2	223.4	240.9
77.5°	153.2	153.2	149.0	153.2
80°	91.9	91.9	91.9	87.6
82.5°	56.9	61.3	56.9	56.9
85°	30.6	35.1	26.2	39.5
87.5°	17.5	21.9	17.5	21.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)