

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: P248423

Luminaire Tested: **LD8B175D010 ER8B175927 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248423
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 ER8B175927 8LBDW0LI
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: 15090.7 lumens
Efficiency: N/A
Efficacy: 85.2 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

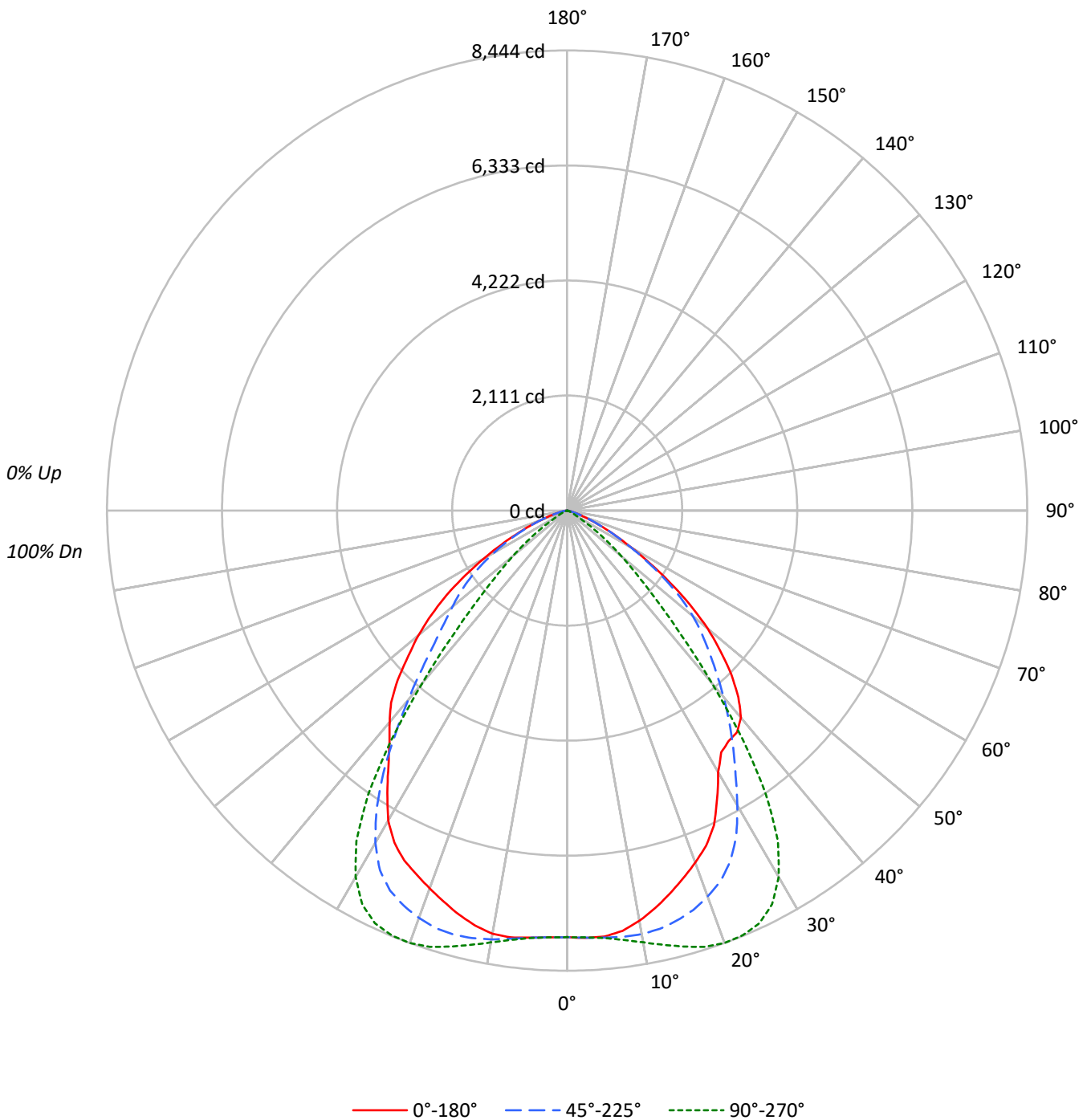
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	752.9	5.0
10°-20°	2230.3	14.8
20°-30°	3402.5	22.5
30°-40°	3550.5	23.5
40°-50°	2666.9	17.7
50°-60°	1640.9	10.9
60°-70°	667.8	4.4
70°-80°	157.3	1.0
80°-90°	21.7	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°	6385.6	42.3
0°-40°	9936.1	65.8
0°-60°	14244.0	94.4
0°-90°	15090.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15090.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7828	7828	7828	7828	7828	
5°	7845	7866	7874	7866	7866	742
15°	7276	7787	8282	8053	7675	2050
25°	6374	7089	8352	7692	7081	2898
35°	5165	5310	6362	5880	5714	3261
45°	4263	3690	2302	3436	4396	3253
55°	2302	2186	603	2186	2697	2069
65°	719	727	91	976	1035	750
75°	125	125	16	220	229	150
85°	12	12	4	29	38	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°	7828.5	7828.5	7828.5	7828.5	7828.5	7828.5	7828.5	7828.5	7828.5	7828.5	7828.5
2.5°	7849.4	7836.9	7849.4	7849.4	7853.5	7845.2	7849.4	7853.5	7845.2	7845.2	7845.2
5°	7845.2	7836.9	7845.2	7841.0	7849.4	7849.4	7857.7	7857.7	7866.0	7866.0	7878.5
7.5°	7778.7	7762.2	7778.7	7791.2	7799.5	7816.2	7836.9	7853.5	7870.2	7886.8	7907.5
10°	7641.6	7641.6	7654.0	7679.0	7703.9	7733.0	7770.4	7812.0	7853.5	7890.9	7928.3
12.5°	7471.2	7458.8	7483.7	7516.9	7554.4	7600.0	7658.2	7720.5	7787.0	7861.8	7920.0
15°	7275.9	7263.4	7292.5	7325.8	7371.6	7438.0	7508.7	7591.7	7687.4	7787.0	7882.6
17.5°	7076.5	7072.3	7101.3	7147.1	7184.6	7255.1	7346.6	7446.3	7554.4	7687.4	7812.0
20°	6873.0	6868.8	6897.8	6935.3	6985.0	7051.6	7143.0	7259.3	7388.1	7537.7	7683.2
22.5°	6660.9	6665.1	6690.0	6731.6	6773.2	6843.7	6939.3	7055.8	7197.0	7359.1	7521.1
25°	6374.2	6353.4	6386.7	6428.2	6498.9	6557.1	6648.5	6773.2	6918.5	7089.0	7280.1
27.5°	5958.7	5954.5	5983.7	6021.0	6083.3	6154.0	6253.8	6382.6	6536.2	6723.2	6910.2
30°	5543.1	5551.4	5564.0	5601.4	5642.9	5713.5	5813.3	5921.3	6066.8	6245.4	6444.9
32.5°	5260.6	5260.6	5277.3	5302.1	5331.3	5368.6	5439.4	5518.2	5630.5	5755.2	5900.5
35°	5165.0	5148.4	5165.0	5169.2	5173.3	5181.6	5194.1	5219.1	5256.4	5310.4	5364.4
37.5°	5123.5	5111.0	5111.0	5094.4	5073.6	5048.7	5015.5	4978.0	4936.5	4882.5	4841.0
40°	4961.5	4953.2	4944.8	4928.2	4882.5	4832.7	4778.6	4691.4	4595.7	4462.8	4329.9
42.5°	4649.8	4641.5	4637.4	4604.1	4562.6	4504.4	4442.1	4350.6	4230.1	4059.7	3868.5
45°	4263.4	4246.7	4234.3	4205.2	4176.0	4126.2	4068.0	3984.9	3864.4	3689.9	3461.4
47.5°	3814.5	3806.2	3802.0	3789.7	3760.5	3731.4	3694.0	3627.6	3519.6	3353.3	3116.5
50°	3361.6	3345.1	3353.3	3349.2	3336.8	3315.9	3291.0	3245.3	3162.2	3012.6	2796.5
52.5°	2842.2	2842.2	2838.2	2850.5	2854.7	2850.5	2854.7	2804.8	2734.2	2621.9	2439.1
55°	2302.0	2302.0	2314.5	2331.1	2347.8	2351.9	2347.8	2327.0	2277.1	2185.6	2023.6
57.5°	1795.0	1786.8	1811.7	1836.7	1853.3	1869.9	1857.4	1840.8	1811.7	1736.9	1612.2
60°	1367.1	1367.1	1383.6	1400.4	1416.9	1433.6	1429.4	1425.3	1400.4	1350.4	1250.8
62.5°	1005.5	1009.7	1009.7	1022.2	1038.8	1055.5	1067.9	1055.5	1043.0	1009.7	943.2
65°	718.9	714.7	718.9	731.4	743.8	760.4	768.7	764.6	752.1	727.2	677.4
67.5°	482.1	477.9	494.4	498.6	506.9	523.6	519.4	523.6	519.4	498.6	457.1
70°	315.8	307.5	315.8	311.6	324.1	328.3	336.5	340.8	336.5	324.1	311.6
72.5°	195.3	191.1	195.3	199.5	203.6	207.7	216.1	216.1	211.8	203.6	187.0
75°	124.6	112.2	116.3	108.1	116.3	116.3	124.6	128.8	124.6	124.6	116.3
77.5°	74.8	74.8	74.8	74.8	74.8	74.8	74.8	79.0	83.0	74.8	70.6
80°	37.5	37.5	41.6	41.6	41.6	45.8	41.6	41.6	41.6	45.8	33.3
82.5°	29.0	24.9	24.9	24.9	29.0	24.9	24.9	24.9	24.9	24.9	24.9
85°	12.5	16.5	12.5	8.3	12.5	12.5	16.5	12.5	12.5	12.5	16.5
87.5°	4.2	4.2	0.0	0.0	0.0	4.2	0.0	4.2	4.2	8.3	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°	7828.5	7828.5	7828.5	7828.5	7828.5	7828.5	7828.5	7828.5	7828.5	7828.5	7828.5
2.5°	7849.4	7841.0	7841.0	7836.9	7845.2	7836.9	7841.0	7836.9	7836.9	7845.2	7836.9
5°	7878.5	7882.6	7874.3	7870.2	7882.6	7882.6	7882.6	7874.3	7874.3	7878.5	7874.3
7.5°	7920.0	7928.3	7932.5	7936.6	7945.0	7949.1	7949.1	7945.0	7940.8	7953.3	7936.6
10°	7965.7	7978.2	8003.1	8015.6	8036.3	8036.3	8044.6	8044.6	8036.3	8044.6	8040.5
12.5°	7949.1	8023.8	8065.5	8094.5	8123.6	8148.5	8156.8	8161.0	8156.8	8173.6	8156.8
15°	7978.2	8040.5	8107.0	8156.8	8210.8	8239.9	8248.3	8281.5	8289.8	8294.1	8269.1
17.5°	7932.5	8044.6	8115.3	8190.1	8269.1	8323.1	8372.9	8393.7	8397.9	8406.1	8372.9
20°	7828.5	7953.3	8061.3	8169.3	8260.8	8343.8	8385.4	8443.6	8427.0	8460.2	8414.4
22.5°	7687.4	7828.5	7965.7	8107.0	8202.6	8302.4	8389.6	8431.1	8451.9	8451.9	8401.9
25°	7462.9	7629.2	7778.7	7924.2	8069.6	8190.1	8289.8	8352.1	8364.7	8360.6	8302.4
27.5°	7113.9	7292.5	7467.1	7633.4	7812.0	7953.3	8069.6	8144.3	8165.1	8165.1	8102.8
30°	6631.9	6823.0	6993.4	7192.8	7375.7	7533.6	7695.7	7762.2	7799.5	7799.5	7728.9
32.5°	6058.5	6220.5	6378.4	6573.7	6773.2	6951.8	7105.5	7197.0	7242.8	7238.6	7176.3
35°	5435.1	5514.1	5634.7	5780.0	5958.7	6125.0	6274.5	6361.8	6440.7	6436.6	6378.4
37.5°	4811.8	4791.0	4803.5	4857.5	4969.7	5086.1	5202.4	5285.6	5352.0	5381.2	5368.6
40°	4201.1	4093.0	3989.0	3951.8	3960.0	4001.5	4063.8	4126.2	4201.1	4238.4	4255.1
42.5°	3652.5	3469.7	3286.8	3149.8	3070.7	3045.8	3075.0	3095.7	3141.5	3195.3	3249.5
45°	3212.1	2967.0	2725.9	2513.9	2381.0	2302.0	2285.4	2302.0	2327.0	2381.0	2451.6
47.5°	2850.5	2563.8	2293.8	2056.8	1861.5	1757.7	1728.7	1720.4	1745.2	1795.0	1890.7
50°	2530.6	2243.8	1944.7	1670.4	1466.9	1350.4	1308.9	1292.3	1321.3	1358.8	1446.0
52.5°	2181.5	1899.0	1591.5	1325.5	1113.6	993.2	947.4	922.5	939.0	989.0	1076.2
55°	1803.4	1541.6	1263.1	989.0	785.4	673.2	619.1	602.6	619.1	673.2	760.4
57.5°	1425.3	1205.0	972.3	714.7	531.9	419.7	365.6	349.1	394.8	415.6	506.9
60°	1113.6	935.0	735.5	523.6	365.6	278.4	224.4	211.8	232.8	270.0	344.9
62.5°	835.2	723.0	565.1	374.0	270.0	178.6	149.5	137.1	149.5	178.6	236.9
65°	606.7	519.4	394.8	274.2	182.8	133.0	99.8	91.4	104.0	124.6	174.6
67.5°	415.6	349.1	274.2	191.1	124.6	83.0	70.6	70.6	74.8	91.4	128.8
70°	270.0	228.6	174.6	124.6	83.0	62.3	54.0	45.8	54.0	66.5	87.2
72.5°	170.4	145.4	112.2	87.2	62.3	45.8	37.5	33.3	41.6	49.8	66.5
75°	104.0	79.0	58.2	45.8	33.3	33.3	33.3	16.5	20.7	33.3	41.6
77.5°	62.3	54.0	45.8	37.5	29.0	16.5	16.5	16.5	20.7	24.9	37.5
80°	33.3	29.0	20.7	20.7	16.5	12.5	16.5	12.5	8.3	20.7	24.9
82.5°	20.7	16.5	16.5	16.5	20.7	8.3	12.5	8.3	12.5	16.5	12.5
85°	12.5	12.5	12.5	8.3	20.7	8.3	8.3	4.2	4.2	8.3	8.3
87.5°	0.0	4.2	4.2	0.0	4.2	0.0	4.2	4.2	4.2	4.2	4.2
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°	7828.5	7828.5	7828.5	7828.5	7828.5	7828.5	7828.5	7828.5	7828.5	7828.5	7828.5
2.5°	7841.0	7836.9	7841.0	7836.9	7836.9	7836.9	7841.0	7841.0	7836.9	7836.9	7845.2
5°	7874.3	7874.3	7874.3	7870.2	7866.0	7866.0	7874.3	7874.3	7861.8	7874.3	7874.3
7.5°	7945.0	7932.5	7945.0	7928.3	7920.0	7924.2	7928.3	7920.0	7911.7	7915.8	7915.8
10°	8036.3	8023.8	8023.8	8011.5	7999.0	7990.6	7982.3	7961.5	7940.8	7936.6	7920.0
12.5°	8144.3	8123.6	8111.2	8086.2	8065.5	8036.3	8011.5	7978.2	7936.6	7907.5	7878.5
15°	8252.4	8219.1	8190.1	8148.5	8102.8	8053.0	7999.0	7945.0	7878.5	7820.3	7770.4
17.5°	8339.6	8294.1	8239.9	8173.6	8107.0	8032.2	7953.3	7874.3	7778.7	7703.9	7645.7
20°	8368.8	8302.4	8231.7	8144.3	8057.1	7953.3	7853.5	7749.7	7641.6	7562.7	7496.2
22.5°	8331.4	8252.4	8165.1	8073.8	7957.4	7845.2	7728.9	7608.4	7512.8	7404.8	7342.4
25°	8227.5	8132.0	8036.3	7928.3	7816.2	7691.5	7566.9	7442.2	7325.8	7267.6	7188.8
27.5°	8015.6	7911.7	7807.8	7695.7	7566.9	7442.2	7313.4	7192.8	7093.1	7014.2	6968.5
30°	7641.6	7521.1	7400.6	7280.1	7167.8	7039.0	6918.5	6818.8	6719.1	6656.7	6611.1
32.5°	7068.2	6960.2	6839.7	6723.2	6619.5	6511.4	6411.6	6324.4	6253.8	6212.1	6179.0
35°	6295.3	6187.3	6095.8	6012.8	5925.4	5879.8	5817.5	5767.5	5738.4	5721.9	5717.7
37.5°	5322.9	5260.6	5231.5	5214.9	5198.3	5185.8	5194.1	5214.9	5231.5	5260.6	5293.8
40°	4284.1	4338.1	4354.8	4412.9	4466.9	4537.6	4616.6	4708.0	4782.7	4878.3	4944.8
42.5°	3336.8	3436.4	3552.8	3677.4	3810.4	3939.2	4097.1	4242.5	4375.5	4496.0	4599.9
45°	2563.8	2717.5	2892.2	3070.7	3249.5	3436.4	3627.6	3806.2	3964.2	4093.0	4201.1
47.5°	1998.7	2169.1	2393.4	2613.7	2829.8	3050.0	3261.9	3448.9	3581.9	3706.5	3802.0
50°	1583.2	1778.5	2023.6	2277.1	2513.9	2746.6	2971.0	3145.6	3278.6	3378.3	3448.9
52.5°	1225.8	1458.4	1707.9	1973.8	2227.3	2480.7	2688.4	2850.5	2958.6	3045.8	3099.8
55°	914.2	1142.7	1408.7	1682.9	1940.5	2185.6	2381.0	2522.4	2617.9	2667.7	2696.7
57.5°	660.7	868.5	1134.3	1408.7	1641.3	1874.0	2032.0	2160.8	2214.8	2243.8	2256.3
60°	482.1	673.2	910.0	1146.8	1367.1	1554.1	1691.2	1778.5	1820.0	1836.7	1832.5
62.5°	353.2	519.4	723.0	922.5	1101.1	1254.8	1362.9	1421.1	1441.9	1450.1	1437.8
65°	270.0	398.8	573.4	727.2	864.3	976.5	1055.5	1092.9	1105.3	1101.1	1092.9
67.5°	199.5	299.2	428.1	544.4	644.1	731.4	772.9	806.2	814.4	802.0	789.5
70°	141.3	220.3	311.6	390.6	465.4	515.2	560.9	565.1	565.1	560.9	552.7
72.5°	99.8	153.7	211.8	266.0	311.6	349.1	365.6	378.1	374.0	369.8	361.6
75°	66.5	95.6	153.7	166.3	207.7	220.3	236.9	236.9	241.0	228.6	228.6
77.5°	41.6	66.5	91.4	108.1	124.6	141.3	149.5	149.5	153.7	149.5	149.5
80°	24.9	41.6	49.8	74.8	74.8	87.2	91.4	95.6	87.2	99.8	87.2
82.5°	16.5	24.9	37.5	37.5	45.8	54.0	54.0	58.2	58.2	54.0	54.0
85°	12.5	16.5	20.7	24.9	24.9	29.0	24.9	24.9	29.0	33.3	29.0
87.5°	4.2	8.3	4.2	8.3	8.3	16.5	12.5	12.5	12.5	16.5	16.5
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: P248423

CATALOG NUMBER: LD8B175D010 ER8B175927 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	7828.5	7828.5	7828.5	7828.5
2.5°	7836.9	7841.0	7836.9	7836.9
5°	7874.3	7870.2	7874.3	7866.0
7.5°	7903.4	7903.4	7899.2	7899.2
10°	7903.4	7886.8	7886.8	7886.8
12.5°	7841.0	7820.3	7807.8	7799.5
15°	7733.0	7695.7	7679.0	7674.9
17.5°	7591.7	7558.5	7537.7	7525.2
20°	7429.7	7396.4	7371.6	7375.7
22.5°	7288.3	7251.1	7234.4	7226.0
25°	7147.1	7101.3	7089.0	7080.6
27.5°	6918.5	6893.7	6881.2	6868.8
30°	6569.6	6557.1	6536.2	6565.4
32.5°	6166.5	6145.7	6129.1	6141.6
35°	5721.9	5709.4	5721.9	5713.5
37.5°	5314.7	5327.1	5343.8	5352.0
40°	4994.7	5040.3	5057.0	5065.3
42.5°	4674.7	4728.7	4762.0	4782.7
45°	4280.0	4334.0	4371.3	4396.4
47.5°	3872.7	3918.5	3955.8	3951.8
50°	3502.9	3527.9	3544.4	3561.1
52.5°	3128.8	3128.8	3133.0	3133.0
55°	2705.2	2696.7	2692.6	2696.7
57.5°	2239.6	2231.4	2227.3	2214.8
60°	1815.9	1791.0	1774.4	1774.4
62.5°	1421.1	1392.0	1379.6	1375.4
65°	1067.9	1063.7	1038.8	1034.7
67.5°	772.9	756.2	739.7	743.8
70°	544.4	519.4	519.4	511.1
72.5°	353.2	340.8	336.5	336.5
75°	220.3	220.3	211.8	228.6
77.5°	145.4	145.4	141.3	145.4
80°	87.2	87.2	87.2	83.0
82.5°	54.0	58.2	54.0	54.0
85°	29.0	33.3	24.9	37.5
87.5°	16.5	20.7	16.5	20.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)