

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: P250279

Luminaire Tested: **LD8B175D010 ER8B175927 8LBSW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250279  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13955)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B175D010 ER8B175927 8LBSW0WH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
97 CRI 2700 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14650.9 lumens  
Efficiency: N/A  
Efficacy: 82.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.15  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

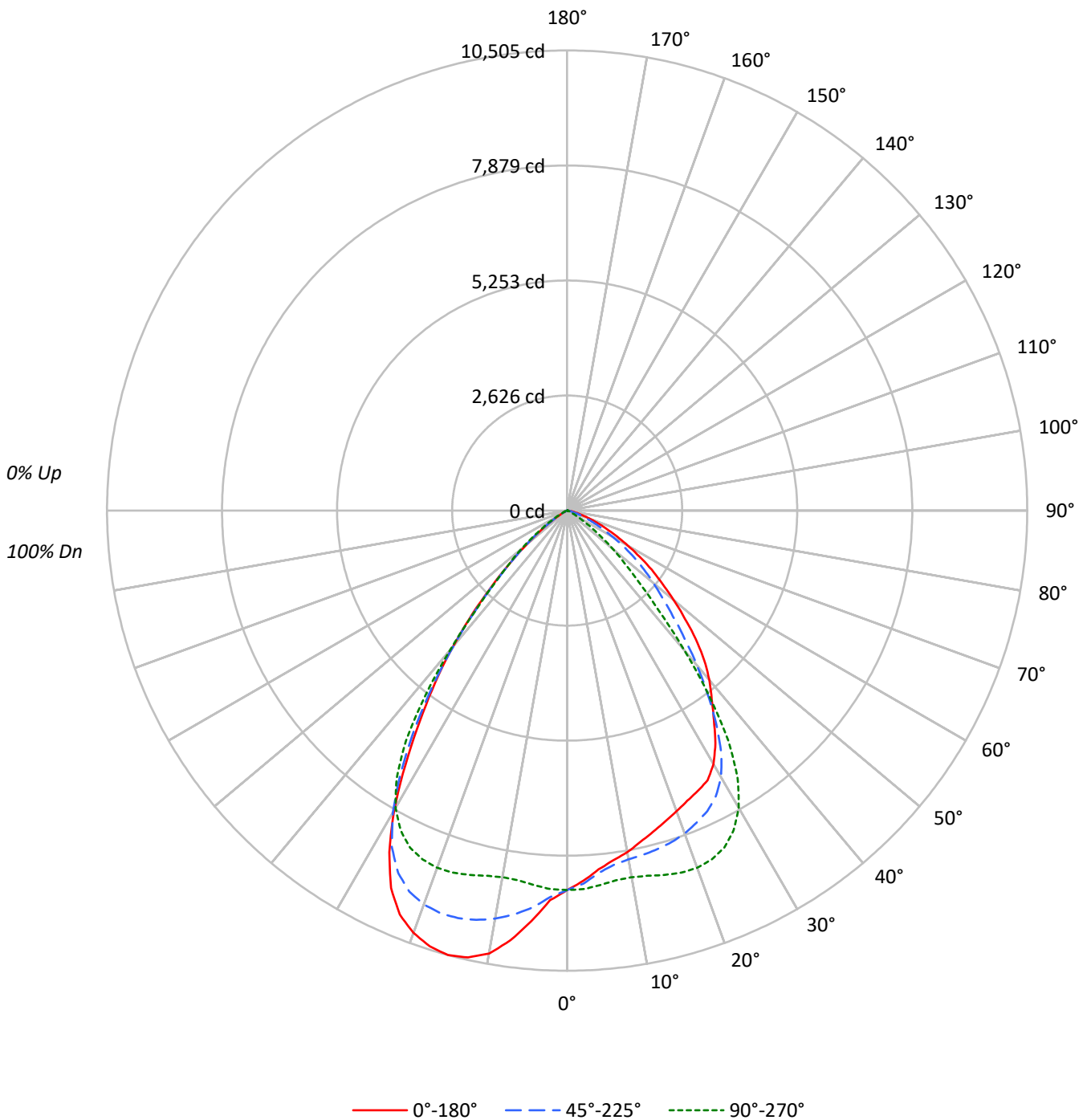
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	106	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38

**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°	832.8	5.7
10°-20°	2492.5	17.0
20°-30°	3817.1	26.1
30°-40°	3742.0	25.5
40°-50°	2253.4	15.4
50°-60°	1037.2	7.1
60°-70°	364.3	2.5
70°-80°	95.3	0.7
80°-90°	16.2	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°	7142.4	48.8
0°-40°	10884.4	74.3
0°-60°	14175.0	96.8
0°-90°	14650.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14650.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	8663	8663	8663	8663	8663	
5°	8222	8299	8582	9096	9408	777
15°	7590	7999	8610	9631	10505	2144
25°	7060	7570	8489	9129	9509	3252
35°	5842	5923	6412	6044	5850	3659
45°	4149	3417	2316	2332	2392	3182
55°	2356	1866	664	522	502	2102
65°	1000	692	105	53	57	1019
75°	259	150	8	0	0	314
85°	40	20	4	0	0	56
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°	8663.1	8663.1	8663.1	8663.1	8663.1	8663.1	8663.1	8663.1	8663.1	8663.1	8663.1
2.5°	8460.7	8468.8	8468.8	8468.8	8485.0	8489.1	8485.0	8489.1	8497.1	8525.5	8537.6
5°	8221.8	8209.7	8217.9	8213.7	8234.0	8246.1	8238.0	8250.2	8278.5	8298.9	8319.0
7.5°	8052.0	8052.0	8052.0	8060.0	8072.1	8096.4	8092.4	8100.4	8128.7	8157.0	8185.4
10°	7918.3	7914.3	7914.3	7934.4	7950.6	7979.0	7987.0	8011.5	8047.7	8084.2	8116.5
12.5°	7744.2	7748.3	7768.5	7788.8	7825.2	7869.6	7893.9	7926.4	7983.1	8043.8	8080.2
15°	7590.4	7594.3	7610.6	7651.0	7695.7	7748.3	7800.8	7853.4	7922.2	7999.2	8064.1
17.5°	7440.5	7444.6	7456.7	7501.4	7558.0	7626.8	7687.5	7756.3	7845.4	7934.4	8015.4
20°	7302.9	7298.9	7319.1	7359.5	7432.5	7497.2	7558.0	7639.0	7736.2	7845.4	7938.4
22.5°	7169.3	7169.3	7189.6	7230.2	7295.0	7359.5	7424.4	7509.4	7606.5	7711.9	7821.1
25°	7059.9	7056.0	7084.4	7104.6	7153.1	7217.9	7286.7	7355.6	7452.7	7570.2	7675.3
27.5°	6942.7	6938.7	6942.7	6967.0	7011.4	7059.9	7112.6	7173.4	7254.4	7351.5	7452.7
30°	6683.5	6687.6	6687.6	6707.9	6732.2	6784.8	6813.0	6873.9	6946.6	7027.6	7116.8
32.5°	6299.0	6303.0	6303.0	6311.1	6331.3	6355.7	6380.0	6424.4	6481.1	6550.0	6630.9
35°	5841.6	5841.6	5837.4	5841.6	5853.7	5853.7	5874.0	5853.7	5882.1	5922.6	5983.2
37.5°	5420.6	5412.4	5404.4	5396.2	5384.0	5363.9	5335.5	5286.9	5274.8	5258.6	5262.5
40°	5048.1	5044.2	5019.8	4999.5	4959.0	4910.5	4841.7	4756.7	4687.9	4606.9	4538.0
42.5°	4635.2	4631.1	4610.9	4574.4	4529.9	4457.1	4347.8	4234.5	4096.8	3975.4	3849.9
45°	4149.3	4161.5	4133.1	4092.6	4040.0	3971.2	3849.9	3712.2	3574.5	3416.7	3258.7
47.5°	3643.3	3639.3	3619.1	3594.8	3550.3	3481.5	3400.5	3250.7	3104.9	2959.3	2797.3
50°	3173.7	3157.5	3149.4	3125.2	3096.9	3040.3	2955.2	2833.6	2704.2	2566.6	2416.7
52.5°	2728.5	2728.5	2708.2	2692.0	2667.7	2623.2	2550.4	2453.3	2343.9	2214.3	2056.5
55°	2356.1	2348.0	2327.7	2307.5	2283.1	2254.8	2190.2	2109.2	1991.7	1866.3	1728.6
57.5°	1959.4	1955.2	1947.2	1922.8	1910.7	1882.4	1809.6	1728.6	1627.4	1518.2	1404.7
60°	1603.1	1586.9	1570.6	1554.4	1534.3	1505.9	1457.3	1388.5	1303.5	1206.3	1093.0
62.5°	1283.4	1307.5	1259.0	1259.0	1218.5	1194.2	1149.8	1109.2	1020.0	931.2	834.0
65°	999.9	999.9	979.6	963.4	939.2	910.8	866.2	825.8	760.9	692.2	623.4
67.5°	765.1	760.9	740.8	724.6	704.4	688.2	655.9	607.2	558.7	502.1	445.3
70°	562.7	558.7	554.5	526.2	510.1	489.9	465.5	433.2	396.8	356.3	303.6
72.5°	404.8	404.8	392.7	380.6	364.4	348.1	323.9	303.6	271.2	242.9	206.4
75°	259.1	255.2	255.2	234.8	234.8	210.5	194.3	182.1	165.9	149.8	117.4
77.5°	186.3	182.1	178.1	170.0	162.0	153.8	141.6	125.4	113.3	97.1	84.9
80°	125.4	117.4	113.3	113.3	101.1	97.1	101.1	77.0	72.8	60.6	52.6
82.5°	77.0	77.0	72.8	72.8	68.9	64.8	52.6	52.6	48.6	44.4	36.4
85°	40.5	52.6	36.4	40.5	36.4	40.5	36.4	28.4	24.3	20.1	20.1
87.5°	24.3	16.2	16.2	24.3	20.1	16.2	16.2	16.2	12.2	8.2	8.2
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	8663.1	8663.1	8663.1	8663.1	8663.1	8663.1	8663.1	8663.1	8663.1	8663.1	8663.1
2.5°	8529.6	8558.0	8553.8	8590.3	8602.4	8630.8	8630.8	8650.9	8663.1	8691.4	8715.7
5°	8327.1	8371.7	8383.8	8428.3	8464.8	8509.3	8537.6	8582.1	8622.6	8683.4	8740.1
7.5°	8201.7	8238.0	8262.3	8315.0	8355.5	8404.0	8452.7	8513.3	8569.9	8642.9	8723.9
10°	8140.8	8189.6	8225.9	8278.5	8327.1	8379.8	8428.3	8497.1	8561.9	8655.1	8744.1
12.5°	8124.8	8181.3	8225.9	8298.9	8347.4	8404.0	8460.7	8537.6	8606.5	8703.6	8804.9
15°	8124.8	8201.7	8262.3	8343.3	8400.0	8472.8	8533.6	8610.4	8687.5	8788.6	8885.7
17.5°	8108.6	8201.7	8278.5	8371.7	8444.5	8517.5	8594.3	8667.2	8748.1	8845.4	8954.6
20°	8043.8	8161.2	8254.2	8363.5	8440.4	8521.4	8598.5	8679.3	8764.4	8865.6	8958.7
22.5°	7930.5	8068.0	8173.4	8290.7	8379.8	8460.7	8537.6	8618.6	8711.8	8808.9	8906.1
25°	7780.6	7910.1	8023.6	8144.9	8234.0	8323.0	8396.0	8489.1	8574.1	8667.2	8744.1
27.5°	7553.8	7691.5	7800.8	7926.4	8007.3	8092.4	8153.1	8230.1	8311.1	8387.8	8448.6
30°	7214.0	7339.4	7452.7	7566.1	7647.0	7707.8	7772.5	7833.3	7885.9	7938.4	7991.1
32.5°	6715.9	6829.3	6938.7	7043.8	7108.6	7161.3	7209.8	7246.2	7274.6	7302.9	7306.9
35°	6031.9	6124.8	6193.7	6286.8	6347.7	6396.2	6396.2	6412.3	6408.3	6396.2	6383.9
37.5°	5266.7	5303.0	5331.4	5367.9	5371.9	5371.9	5347.7	5327.4	5295.0	5286.9	5262.5
40°	4469.3	4420.6	4384.1	4335.6	4307.3	4246.5	4194.0	4157.6	4104.9	4096.8	4088.7
42.5°	3712.2	3598.8	3497.6	3412.7	3315.5	3230.4	3153.6	3096.9	3056.4	3052.2	3056.4
45°	3096.9	2967.3	2817.5	2700.2	2590.9	2485.6	2384.4	2315.6	2279.1	2270.9	2279.1
47.5°	2631.4	2481.5	2335.7	2202.2	2084.8	1967.4	1866.3	1773.1	1728.6	1716.4	1712.5
50°	2262.9	2109.2	1955.2	1817.6	1688.1	1570.6	1445.2	1356.2	1299.5	1279.2	1263.0
52.5°	1902.7	1765.1	1607.1	1465.5	1335.8	1198.2	1068.8	967.4	910.8	886.6	870.3
55°	1586.9	1449.3	1303.5	1165.8	1028.2	890.7	760.9	663.9	603.2	574.9	554.5
57.5°	1267.0	1137.6	1012.0	874.5	760.9	627.5	497.9	412.9	360.2	327.9	311.7
60°	979.6	878.5	769.2	655.9	546.5	437.2	331.9	251.0	210.5	186.3	165.9
62.5°	740.8	655.9	582.9	485.7	400.7	307.6	226.8	162.0	125.4	105.3	97.1
65°	534.4	469.6	404.8	344.1	283.4	214.6	153.8	105.3	72.8	60.6	56.7
67.5°	380.6	327.9	279.2	238.7	194.3	153.8	109.4	72.8	56.7	48.6	44.4
70°	267.1	226.8	194.3	158.0	129.5	101.1	84.9	52.6	32.3	36.4	28.4
72.5°	178.1	149.8	133.6	109.4	89.0	72.8	52.6	36.4	36.4	28.4	24.3
75°	97.1	89.0	68.9	52.6	44.4	40.5	16.2	8.2	4.0	12.2	4.0
77.5°	68.9	60.6	52.6	44.4	36.4	28.4	16.2	16.2	12.2	16.2	8.2
80°	44.4	36.4	32.3	32.3	20.1	12.2	8.2	8.2	12.2	4.0	4.0
82.5°	28.4	24.3	20.1	20.1	20.1	12.2	12.2	12.2	12.2	8.2	8.2
85°	16.2	12.2	8.2	8.2	4.0	8.2	0.0	4.0	4.0	0.0	0.0
87.5°	8.2	4.0	4.0	4.0	4.0	0.0	0.0	4.0	0.0	4.0	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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	8663.1	8663.1	8663.1	8663.1	8663.1	8663.1	8663.1	8663.1	8663.1	8663.1	8663.1
2.5°	8731.9	8748.1	8768.4	8784.6	8821.0	8829.0	8845.4	8861.5	8873.7	8885.7	8889.9
5°	8788.6	8849.4	8906.1	8966.7	9043.6	9096.3	9156.9	9209.6	9262.2	9306.8	9339.1
7.5°	8804.9	8897.8	8983.0	9088.2	9201.5	9298.8	9399.9	9501.1	9606.4	9687.4	9756.1
10°	8837.2	8950.5	9059.8	9185.3	9331.1	9460.6	9586.0	9719.7	9853.3	9966.6	10068.0
12.5°	8893.9	9019.4	9136.8	9274.5	9424.2	9569.9	9707.5	9857.4	9999.1	10124.6	10237.8
15°	8987.1	9104.3	9217.8	9347.3	9497.0	9630.7	9768.4	9913.9	10055.8	10185.2	10290.5
17.5°	9047.7	9156.9	9270.3	9387.8	9513.2	9634.7	9764.2	9893.8	10023.3	10140.8	10237.8
20°	9047.7	9153.0	9237.9	9343.2	9460.6	9565.9	9671.2	9784.5	9897.8	9994.9	10088.1
22.5°	8974.8	9076.1	9140.8	9221.7	9323.0	9412.1	9468.8	9594.2	9679.2	9764.2	9832.9
25°	8804.9	8877.7	8930.4	8987.1	9067.9	9128.7	9177.3	9250.1	9335.1	9367.5	9416.0
27.5°	8497.1	8549.8	8578.1	8590.3	8630.8	8663.1	8671.3	8703.6	8740.1	8748.1	8768.4
30°	8011.5	8015.4	8003.2	7999.2	7979.0	7954.8	7950.6	7946.6	7930.5	7914.3	7918.3
32.5°	7278.6	7258.4	7209.8	7157.2	7104.6	7048.0	7015.5	6975.0	6950.7	6926.5	6898.2
35°	6331.3	6282.8	6214.0	6149.2	6088.5	6043.8	5971.0	5946.8	5922.6	5890.0	5882.1
37.5°	5218.1	5189.7	5124.9	5076.4	5044.2	5023.8	4987.3	4963.2	4963.2	4951.0	4942.8
40°	4068.3	4060.4	4036.0	4048.2	4032.0	4040.0	4036.0	4027.8	4048.2	4048.2	4056.4
42.5°	3052.2	3056.4	3068.5	3076.6	3101.0	3104.9	3125.2	3125.2	3137.4	3149.4	3157.5
45°	2270.9	2287.2	2287.2	2303.4	2327.7	2331.8	2339.8	2343.9	2351.9	2372.3	2380.3
47.5°	1704.3	1708.3	1708.3	1712.5	1720.5	1728.6	1724.6	1728.6	1740.7	1732.6	1740.7
50°	1259.0	1263.0	1250.9	1238.7	1250.9	1250.9	1246.8	1234.7	1246.8	1230.8	1238.7
52.5°	858.3	854.1	842.0	846.1	838.0	834.0	834.0	825.8	825.8	825.8	809.7
55°	542.6	542.6	534.4	534.4	530.3	522.2	518.2	514.0	510.1	506.0	506.0
57.5°	303.6	307.6	295.7	291.4	295.7	291.4	283.4	283.4	283.4	271.2	279.2
60°	165.9	162.0	158.0	153.8	149.8	153.8	153.8	145.8	145.8	145.8	149.8
62.5°	89.0	89.0	84.9	84.9	81.0	81.0	89.0	77.0	81.0	77.0	81.0
65°	48.6	60.6	44.4	44.4	56.7	52.6	48.6	48.6	52.6	44.4	48.6
67.5°	52.6	36.4	32.3	36.4	32.3	32.3	32.3	40.5	36.4	28.4	36.4
70°	24.3	28.4	28.4	20.1	32.3	16.2	28.4	16.2	24.3	20.1	24.3
72.5°	24.3	24.3	24.3	16.2	24.3	16.2	20.1	20.1	16.2	16.2	24.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	8.2	8.2	4.0	4.0	4.0	4.0	8.2	8.2	8.2	0.0	4.0
80°	8.2	8.2	0.0	4.0	0.0	0.0	4.0	0.0	4.0	0.0	8.2
82.5°	4.0	8.2	4.0	4.0	8.2	8.2	8.2	4.0	4.0	4.0	4.0
85°	0.0	4.0	0.0	0.0	0.0	0.0	8.2	0.0	0.0	0.0	4.0
87.5°	0.0	4.0	0.0	0.0	0.0	0.0	4.0	4.0	0.0	0.0	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





TEST NUMBER: P250279

CATALOG NUMBER: LD8B175D010 ER8B175927 8LBSW0WH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	8663.1	8663.1	8663.1	8663.1
2.5°	8893.9	8897.8	8906.1	8902.0
5°	9363.4	9395.9	9412.1	9408.0
7.5°	9804.6	9861.5	9893.8	9893.8
10°	10144.7	10209.6	10258.1	10266.2
12.5°	10326.8	10399.8	10464.6	10448.3
15°	10379.5	10452.5	10517.2	10505.0
17.5°	10318.8	10391.6	10440.3	10432.1
20°	10152.9	10213.5	10262.2	10258.1
22.5°	9893.8	9946.5	9987.0	9982.8
25°	9456.5	9493.1	9525.4	9509.2
27.5°	8784.6	8796.7	8816.8	8792.8
30°	7890.0	7898.0	7906.2	7902.1
32.5°	6886.0	6881.8	6873.9	6865.6
35°	5869.9	5869.9	5874.0	5849.6
37.5°	4946.8	4942.8	4955.0	4942.8
40°	4064.4	4060.4	4076.6	4056.4
42.5°	3169.7	3182.0	3185.9	3185.9
45°	2384.4	2388.4	2392.4	2392.4
47.5°	1740.7	1744.8	1765.1	1740.7
50°	1230.8	1234.7	1238.7	1230.8
52.5°	813.6	817.8	813.6	801.4
55°	497.9	502.1	502.1	502.1
57.5°	267.1	271.2	271.2	267.1
60°	145.8	141.6	145.8	137.6
62.5°	77.0	84.9	81.0	72.8
65°	48.6	48.6	48.6	56.7
67.5°	40.5	32.3	36.4	28.4
70°	24.3	28.4	28.4	20.1
72.5°	20.1	20.1	20.1	24.3
75°	0.0	0.0	0.0	0.0
77.5°	8.2	8.2	8.2	4.0
80°	4.0	0.0	4.0	0.0
82.5°	4.0	4.0	8.2	4.0
85°	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)