

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: P248396

Luminaire Tested: **LD8B175D010 ER8B175935 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248396
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 ER8B175935 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 3500 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16429.0 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

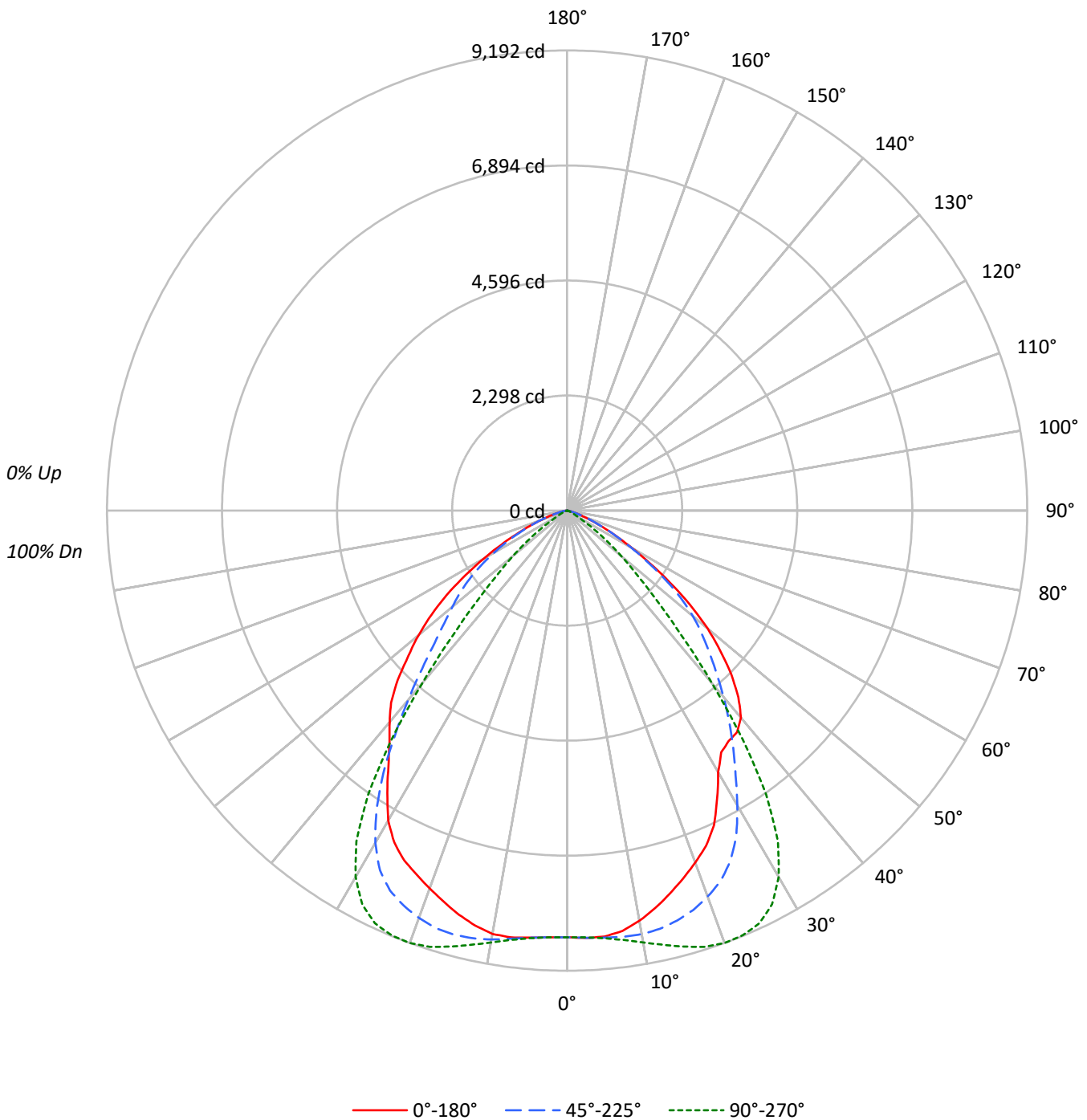
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90					90			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62					62			
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56					56			
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50					50			
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45					45			
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41					41			
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38					38			
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	262812	262812	262812
5°	264376	265357	265075
10°	260491	274234	268851
15°	252877	287825	266739
20°	245537	301648	263500
25°	236110	309374	262278
30°	214876	300894	254503
35°	211673	260724	234154
40°	217428	180825	221980
45°	202407	109289	208722
50°	175566	67493	185986
55°	134732	35262	157838
60°	91787	14228	119127
65°	57102	7260	82188
70°	30997	4490	50165
75°	16168	2145	29643
80°	7227	2415	16053
85°	4812	1592	14400



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	819.6	5.0
10°-20°	2428.0	14.8
20°-30°	3704.2	22.5
30°-40°	3865.4	23.5
40°-50°	2903.4	17.7
50°-60°	1786.4	10.9
60°-70°	727.0	4.4
70°-80°	171.3	1.0
80°-90°	23.6	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°	6951.9	42.3
0°-40°	10817.3	65.8
0°-60°	15507.1	94.4
0°-90°	16429.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16429.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8523	8523	8523	8523	8523	
5°	8541	8564	8573	8564	8564	808
15°	7921	8478	9016	8767	8355	2231
25°	6940	7718	9093	8374	7709	3155
35°	5623	5781	6926	6401	6220	3550
45°	4641	4017	2506	3741	4786	3541
55°	2506	2380	656	2380	2936	2253
65°	783	792	100	1063	1126	816
75°	136	136	18	240	249	163
85°	14	14	4	32	41	19
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°	8522.8	8522.8	8522.8	8522.8	8522.8	8522.8	8522.8	8522.8	8522.8	8522.8	8522.8
2.5°	8545.5	8531.9	8545.5	8545.5	8550.0	8540.9	8545.5	8550.0	8540.9	8540.9	8540.9
5°	8540.9	8531.9	8540.9	8536.4	8545.5	8545.5	8554.5	8554.5	8563.5	8563.5	8577.1
7.5°	8468.5	8450.5	8468.5	8482.2	8491.1	8509.3	8531.9	8550.0	8568.1	8586.2	8608.8
10°	8319.2	8319.2	8332.8	8360.0	8387.1	8418.7	8459.5	8504.7	8550.0	8590.6	8631.4
12.5°	8133.8	8120.2	8147.3	8183.5	8224.3	8274.1	8337.4	8405.2	8477.6	8559.0	8622.4
15°	7921.2	7907.6	7939.2	7975.4	8025.2	8097.6	8174.6	8265.0	8369.0	8477.6	8581.7
17.5°	7704.0	7699.5	7731.1	7780.9	7821.7	7898.5	7998.1	8106.6	8224.3	8369.0	8504.7
20°	7482.4	7477.9	7509.5	7550.3	7604.5	7676.9	7776.4	7903.0	8043.3	8206.2	8364.5
22.5°	7251.6	7256.2	7283.3	7328.6	7373.8	7450.6	7554.7	7681.4	7835.2	8011.6	8188.1
25°	6939.5	6916.9	6953.1	6998.4	7075.2	7138.5	7238.1	7373.8	7532.1	7717.6	7925.7
27.5°	6487.1	6482.6	6514.3	6554.9	6622.8	6699.7	6808.3	6948.6	7115.9	7319.5	7523.0
30°	6034.7	6043.8	6057.4	6098.1	6143.3	6220.2	6328.8	6446.5	6604.8	6799.2	7016.4
32.5°	5727.1	5727.1	5745.2	5772.4	5804.0	5844.8	5921.7	6007.6	6129.8	6265.5	6423.8
35°	5623.0	5605.0	5623.0	5627.6	5632.1	5641.2	5654.7	5681.9	5722.6	5781.4	5840.2
37.5°	5577.9	5564.3	5564.3	5546.2	5523.5	5496.4	5460.2	5419.5	5374.3	5315.4	5270.3
40°	5401.4	5392.4	5383.3	5365.2	5315.4	5261.2	5202.3	5107.3	5003.3	4858.5	4713.8
42.5°	5062.2	5053.1	5048.6	5012.4	4967.1	4903.8	4835.9	4736.4	4605.2	4419.7	4211.6
45°	4641.4	4623.3	4609.8	4578.1	4546.4	4492.1	4428.8	4338.3	4207.1	4017.2	3768.3
47.5°	4152.9	4143.8	4139.2	4125.7	4094.1	4062.3	4021.7	3949.3	3831.6	3650.7	3392.9
50°	3659.7	3641.7	3650.7	3646.2	3632.6	3610.0	3582.8	3533.1	3442.6	3279.7	3044.5
52.5°	3094.2	3094.2	3089.8	3103.3	3107.8	3103.3	3107.8	3053.6	2976.7	2854.5	2655.4
55°	2506.1	2506.1	2519.7	2537.9	2555.9	2560.5	2555.9	2533.4	2479.0	2379.5	2203.1
57.5°	1954.2	1945.3	1972.4	1999.5	2017.7	2035.7	2022.1	2004.0	1972.4	1890.9	1755.2
60°	1488.3	1488.3	1506.4	1524.5	1542.6	1560.7	1556.2	1551.7	1524.5	1470.2	1361.7
62.5°	1094.7	1099.3	1099.3	1112.9	1130.9	1149.1	1162.6	1149.1	1135.5	1099.3	1026.9
65°	782.6	778.0	782.6	796.2	809.8	827.8	836.9	832.4	818.8	791.7	737.4
67.5°	524.8	520.2	538.3	542.8	551.9	570.1	565.5	570.1	565.5	542.8	497.7
70°	343.8	334.7	343.8	339.3	352.9	357.4	366.4	370.9	366.4	352.9	339.3
72.5°	212.6	208.1	212.6	217.2	221.7	226.1	235.2	235.2	230.7	221.7	203.6
75°	135.7	122.1	126.6	117.7	126.6	126.6	135.7	140.2	135.7	135.7	126.6
77.5°	81.5	81.5	81.5	81.5	81.5	81.5	81.5	86.0	90.4	81.5	76.9
80°	40.7	40.7	45.3	45.3	45.3	49.8	45.3	45.3	45.3	49.8	36.2
82.5°	31.7	27.1	27.1	27.1	31.7	27.1	27.1	27.1	27.1	27.1	27.1
85°	13.6	18.0	13.6	9.1	13.6	13.6	18.0	13.6	13.6	13.6	18.0
87.5°	4.5	4.5	0.0	0.0	0.0	4.5	0.0	4.5	4.5	9.1	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°	8522.8	8522.8	8522.8	8522.8	8522.8	8522.8	8522.8	8522.8	8522.8	8522.8	8522.8
2.5°	8545.5	8536.4	8536.4	8531.9	8540.9	8531.9	8536.4	8531.9	8531.9	8540.9	8531.9
5°	8577.1	8581.7	8572.6	8568.1	8581.7	8581.7	8581.7	8572.6	8572.6	8577.1	8572.6
7.5°	8622.4	8631.4	8635.9	8640.4	8649.5	8654.1	8654.1	8649.5	8645.0	8658.6	8640.4
10°	8672.1	8685.7	8712.8	8726.5	8749.0	8749.0	8758.1	8758.1	8749.0	8758.1	8753.6
12.5°	8654.1	8735.4	8780.7	8812.3	8844.0	8871.1	8880.2	8884.7	8880.2	8898.4	8880.2
15°	8685.7	8753.6	8826.0	8880.2	8939.0	8970.6	8979.7	9015.9	9025.0	9029.5	9002.4
17.5°	8635.9	8758.1	8834.9	8916.4	9002.4	9061.2	9115.4	9138.1	9142.6	9151.6	9115.4
20°	8522.8	8658.6	8776.2	8893.8	8993.3	9083.8	9129.0	9192.3	9174.3	9210.5	9160.7
22.5°	8369.0	8522.8	8672.1	8826.0	8930.0	9038.6	9133.6	9178.7	9201.4	9201.4	9147.1
25°	8124.7	8305.7	8468.5	8626.8	8785.2	8916.4	9025.0	9092.8	9106.4	9101.9	9038.6
27.5°	7744.7	7939.2	8129.3	8310.3	8504.7	8658.6	8785.2	8866.6	8889.3	8889.3	8821.4
30°	7220.0	7428.1	7613.6	7830.6	8029.8	8201.7	8378.1	8450.5	8491.1	8491.1	8414.3
32.5°	6595.7	6772.1	6944.0	7156.7	7373.8	7568.3	7735.7	7835.2	7885.0	7880.5	7812.6
35°	5917.1	6003.0	6134.3	6292.6	6487.1	6668.1	6830.9	6926.0	7011.9	7007.3	6944.0
37.5°	5238.5	5215.9	5229.5	5288.3	5410.4	5537.1	5663.8	5754.3	5826.6	5858.4	5844.8
40°	4573.6	4455.9	4342.8	4302.2	4311.1	4356.4	4424.3	4492.1	4573.6	4614.3	4632.4
42.5°	3976.4	3777.4	3578.3	3429.1	3343.1	3315.9	3347.6	3370.2	3420.0	3478.8	3537.6
45°	3496.9	3230.0	2967.6	2736.9	2592.1	2506.1	2488.1	2506.1	2533.4	2592.1	2669.1
47.5°	3103.3	2791.2	2497.2	2239.3	2026.6	1913.6	1881.9	1872.9	1900.0	1954.2	2058.3
50°	2755.0	2442.8	2117.2	1818.5	1596.9	1470.2	1425.0	1406.9	1438.5	1479.3	1574.2
52.5°	2375.0	2067.4	1732.6	1443.1	1212.4	1081.2	1031.4	1004.3	1022.3	1076.7	1171.7
55°	1963.3	1678.3	1375.2	1076.7	855.0	732.9	674.0	655.9	674.0	732.9	827.8
57.5°	1551.7	1311.9	1058.5	778.0	579.0	456.9	398.0	380.0	429.8	452.4	551.9
60°	1212.4	1017.9	800.7	570.1	398.0	303.1	244.3	230.7	253.4	294.0	375.5
62.5°	909.3	787.1	615.2	407.1	294.0	194.5	162.8	149.3	162.8	194.5	257.9
65°	660.5	565.5	429.8	298.5	199.0	144.8	108.6	99.5	113.1	135.7	190.1
67.5°	452.4	380.0	298.5	208.1	135.7	90.4	76.9	76.9	81.5	99.5	140.2
70°	294.0	248.8	190.1	135.7	90.4	67.9	58.8	49.8	58.8	72.4	95.0
72.5°	185.5	158.3	122.1	95.0	67.9	49.8	40.7	36.2	45.3	54.2	72.4
75°	113.1	86.0	63.3	49.8	36.2	36.2	36.2	18.0	22.6	36.2	45.3
77.5°	67.9	58.8	49.8	40.7	31.7	18.0	18.0	18.0	22.6	27.1	40.7
80°	36.2	31.7	22.6	22.6	18.0	13.6	18.0	13.6	9.1	22.6	27.1
82.5°	22.6	18.0	18.0	18.0	22.6	9.1	13.6	9.1	13.6	18.0	13.6
85°	13.6	13.6	13.6	9.1	22.6	9.1	9.1	4.5	4.5	9.1	9.1
87.5°	0.0	4.5	4.5	0.0	4.5	0.0	4.5	4.5	4.5	4.5	4.5
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°	8522.8	8522.8	8522.8	8522.8	8522.8	8522.8	8522.8	8522.8	8522.8	8522.8	8522.8
2.5°	8536.4	8531.9	8536.4	8531.9	8531.9	8531.9	8536.4	8536.4	8531.9	8531.9	8540.9
5°	8572.6	8572.6	8572.6	8568.1	8563.5	8563.5	8572.6	8572.6	8559.0	8572.6	8572.6
7.5°	8649.5	8635.9	8649.5	8631.4	8622.4	8626.8	8631.4	8622.4	8613.3	8617.9	8617.9
10°	8749.0	8735.4	8735.4	8721.9	8708.3	8699.2	8690.3	8667.6	8645.0	8640.4	8622.4
12.5°	8866.6	8844.0	8830.5	8803.3	8780.7	8749.0	8721.9	8685.7	8640.4	8608.8	8577.1
15°	8984.3	8948.1	8916.4	8871.1	8821.4	8767.1	8708.3	8649.5	8577.1	8513.8	8459.5
17.5°	9079.2	9029.5	8970.6	8898.4	8826.0	8744.5	8658.6	8572.6	8468.5	8387.1	8323.8
20°	9110.9	9038.6	8961.7	8866.6	8771.6	8658.6	8550.0	8436.9	8319.2	8233.3	8160.9
22.5°	9070.3	8984.3	8889.3	8789.8	8663.0	8540.9	8414.3	8283.0	8179.0	8061.4	7993.6
25°	8957.1	8853.1	8749.0	8631.4	8509.3	8373.6	8237.9	8102.2	7975.4	7912.1	7826.2
27.5°	8726.5	8613.3	8500.2	8378.1	8237.9	8102.2	7961.9	7830.6	7722.2	7636.2	7586.5
30°	8319.2	8188.1	8056.9	7925.7	7803.5	7663.3	7532.1	7423.5	7314.9	7247.1	7197.4
32.5°	7694.9	7577.4	7446.2	7319.5	7206.5	7088.8	6980.2	6885.2	6808.3	6763.0	6726.8
35°	6853.6	6735.9	6636.4	6546.0	6450.9	6401.2	6333.3	6279.0	6247.3	6229.3	6224.8
37.5°	5794.9	5727.1	5695.4	5677.4	5659.2	5645.7	5654.7	5677.4	5695.4	5727.1	5763.3
40°	4664.0	4722.8	4741.0	4804.3	4863.0	4940.0	5026.0	5125.5	5206.9	5310.9	5383.3
42.5°	3632.6	3741.2	3867.8	4003.5	4148.3	4288.6	4460.5	4618.8	4763.5	4894.7	5007.8
45°	2791.2	2958.5	3148.6	3343.1	3537.6	3741.2	3949.3	4143.8	4315.7	4455.9	4573.6
47.5°	2175.9	2361.5	2605.7	2845.5	3080.7	3320.5	3551.2	3754.7	3899.5	4035.2	4139.2
50°	1723.6	1936.2	2203.1	2479.0	2736.9	2990.2	3234.5	3424.5	3569.3	3677.9	3754.7
52.5°	1334.5	1587.8	1859.3	2148.8	2424.8	2700.7	2926.9	3103.3	3221.0	3315.9	3374.7
55°	995.2	1244.0	1533.6	1832.1	2112.6	2379.5	2592.1	2746.0	2850.0	2904.3	2935.9
57.5°	719.3	945.5	1235.0	1533.6	1786.9	2040.2	2212.1	2352.4	2411.2	2442.8	2456.4
60°	524.8	732.9	990.7	1248.6	1488.3	1691.9	1841.2	1936.2	1981.5	1999.5	1995.0
62.5°	384.5	565.5	787.1	1004.3	1198.8	1366.1	1483.8	1547.1	1569.8	1578.8	1565.3
65°	294.0	434.2	624.3	791.7	941.0	1063.1	1149.1	1189.8	1203.3	1198.8	1189.8
67.5°	217.2	325.8	466.0	592.6	701.2	796.2	841.5	877.7	886.6	873.1	859.5
70°	153.9	239.8	339.3	425.3	506.6	561.0	610.7	615.2	615.2	610.7	601.7
72.5°	108.6	167.4	230.7	289.6	339.3	380.0	398.0	411.7	407.1	402.6	393.6
75°	72.4	104.0	167.4	181.0	226.1	239.8	257.9	257.9	262.3	248.8	248.8
77.5°	45.3	72.4	99.5	117.7	135.7	153.9	162.8	162.8	167.4	162.8	162.8
80°	27.1	45.3	54.2	81.5	81.5	95.0	99.5	104.0	95.0	108.6	95.0
82.5°	18.0	27.1	40.7	40.7	49.8	58.8	58.8	63.3	63.3	58.8	58.8
85°	13.6	18.0	22.6	27.1	27.1	31.7	27.1	27.1	31.7	36.2	31.7
87.5°	4.5	9.1	4.5	9.1	9.1	18.0	13.6	13.6	13.6	18.0	18.0
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: P248396

CATALOG NUMBER: LD8B175D010 ER8B175935 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	8522.8	8522.8	8522.8	8522.8
2.5°	8531.9	8536.4	8531.9	8531.9
5°	8572.6	8568.1	8572.6	8563.5
7.5°	8604.3	8604.3	8599.7	8599.7
10°	8604.3	8586.2	8586.2	8586.2
12.5°	8536.4	8513.8	8500.2	8491.1
15°	8418.7	8378.1	8360.0	8355.4
17.5°	8265.0	8228.8	8206.2	8192.6
20°	8088.5	8052.4	8025.2	8029.8
22.5°	7934.7	7894.1	7875.9	7866.8
25°	7780.9	7731.1	7717.6	7708.6
27.5°	7532.1	7505.0	7491.4	7477.9
30°	7152.1	7138.5	7115.9	7147.6
32.5°	6713.3	6690.6	6672.6	6686.2
35°	6229.3	6215.7	6229.3	6220.2
37.5°	5786.0	5799.5	5817.6	5826.6
40°	5437.6	5487.3	5505.5	5514.5
42.5°	5089.3	5148.1	5184.3	5206.9
45°	4659.5	4718.3	4759.0	4786.2
47.5°	4216.2	4266.0	4306.6	4302.2
50°	3813.6	3840.7	3858.8	3876.9
52.5°	3406.4	3406.4	3410.9	3410.9
55°	2945.0	2935.9	2931.4	2935.9
57.5°	2438.3	2429.3	2424.8	2411.2
60°	1976.9	1949.8	1931.6	1931.6
62.5°	1547.1	1515.5	1501.9	1497.4
65°	1162.6	1158.0	1130.9	1126.4
67.5°	841.5	823.3	805.3	809.8
70°	592.6	565.5	565.5	556.4
72.5°	384.5	370.9	366.4	366.4
75°	239.8	239.8	230.7	248.8
77.5°	158.3	158.3	153.9	158.3
80°	95.0	95.0	95.0	90.4
82.5°	58.8	63.3	58.8	58.8
85°	31.7	36.2	27.1	40.7
87.5°	18.0	22.6	18.0	22.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)