

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: P249419

Luminaire Tested: **LD8B100D010 ER8B100830 8LBDW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249419  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B100D010 ER8B100830 8LBDW0B  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 3000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9386.0 lumens  
Efficiency: N/A  
Efficacy: 88.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

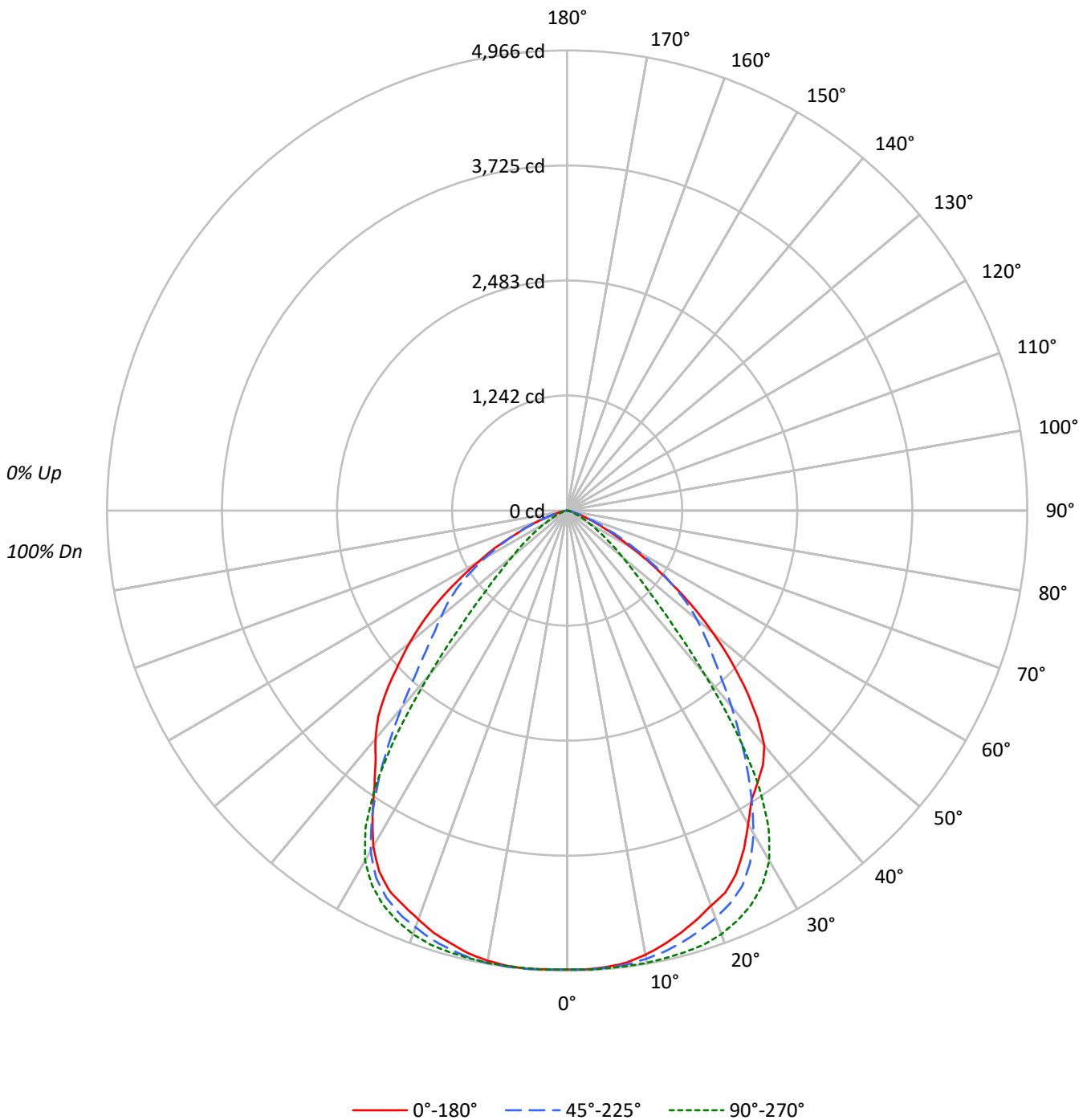
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P249419

CATALOG NUMBER: LD8B100D010 ER8B100830 8LBDW0B

### Luminous Intensity Polar Plot





TEST NUMBER: P249419

CATALOG NUMBER: LD8B100D010 ER8B100830 8LBDW0B

**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	91	90					90			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79					79			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62					62			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55					55			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50					50			
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45					45			
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41					41			
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37					37			
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34					34			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	152708	152708	152708
5°	153043	153458	153622
10°	152402	155148	154481
15°	150710	157418	154449
20°	148903	159630	154048
25°	146971	159815	154207
30°	139041	155320	148978
35°	134890	134988	136392
40°	133220	92878	129477
45°	118704	55759	120326
50°	98704	37107	106356
55°	74024	25580	90174
60°	50165	17046	68037
65°	30259	11054	46741
70°	16779	5996	28761
75°	7601	2538	14881
80°	6606	2824	10388
85°	7536	3750	10367



TEST NUMBER: P249419

CATALOG NUMBER: LD8B100D010 ER8B100830 8LBDW0B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	472.6	5.0
10°-20°	1372.6	14.6
20°-30°	2083.3	22.2
30°-40°	2188.1	23.3
40°-50°	1640.5	17.5
50°-60°	1052.6	11.2
60°-70°	450.3	4.8
70°-80°	106.4	1.1
80°-90°	19.8	0.2
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°	3928.5	41.9
0°-40°	6116.5	65.2
0°-60°	8809.6	93.9
0°-90°	9386.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9386.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4952	4952	4952	4952	4952	
5°	4944	4952	4958	4966	4963	470
15°	4721	4819	4931	4899	4838	1332
25°	4320	4471	4697	4612	4532	1973
35°	3583	3384	3586	3543	3623	2249
45°	2722	2225	1279	2161	2759	2085
55°	1377	1377	476	1435	1677	1249
65°	415	489	152	630	641	443
75°	64	74	21	128	125	93
85°	21	13	11	21	29	22
90°	0	0	0	0	0	



TEST NUMBER: P249419

CATALOG NUMBER: LD8B100D010 ER8B100830 8LBDW0B

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4952.2	4952.2	4952.2	4952.2	4952.2	4952.2	4952.2	4952.2	4952.2	4952.2	4952.2
2.5°	4954.9	4960.2	4957.6	4957.6	4954.9	4957.6	4957.6	4962.9	4962.9	4957.6	4954.9
5°	4944.2	4949.6	4949.6	4944.2	4944.2	4957.6	4949.6	4954.9	4954.9	4952.2	4952.2
7.5°	4920.4	4920.4	4931.0	4923.0	4923.0	4931.0	4928.3	4933.6	4939.0	4941.6	4941.6
10°	4867.2	4872.5	4875.2	4875.2	4877.8	4885.8	4891.1	4901.8	4907.0	4912.4	4915.0
12.5°	4800.8	4808.7	4811.4	4808.7	4816.7	4827.3	4840.6	4853.9	4861.9	4872.5	4880.5
15°	4720.9	4720.9	4726.3	4734.3	4739.6	4755.6	4768.8	4784.8	4806.0	4819.4	4832.6
17.5°	4633.3	4638.6	4646.5	4646.5	4657.2	4683.7	4691.7	4715.7	4739.6	4752.9	4779.5
20°	4537.6	4542.9	4550.9	4556.2	4569.5	4590.7	4606.7	4627.9	4654.5	4678.5	4705.0
22.5°	4463.1	4452.5	4457.8	4463.1	4476.5	4495.1	4513.7	4540.2	4566.8	4590.7	4617.3
25°	4319.6	4322.2	4330.2	4335.5	4351.5	4367.4	4388.7	4420.6	4444.5	4471.1	4500.3
27.5°	4125.6	4128.2	4141.5	4141.5	4154.8	4181.4	4194.6	4221.2	4253.2	4279.7	4314.3
30°	3904.9	3910.2	3910.2	3920.9	3928.8	3942.1	3955.4	3982.0	3997.9	4021.9	4069.7
32.5°	3702.9	3708.2	3705.5	3702.9	3694.9	3692.2	3689.6	3694.9	3700.2	3708.2	3726.8
35°	3583.3	3570.0	3559.4	3540.8	3519.5	3492.9	3469.0	3437.1	3407.8	3383.9	3357.3
37.5°	3469.0	3466.3	3450.4	3423.8	3381.2	3333.4	3277.6	3208.5	3139.3	3064.9	2993.2
40°	3309.5	3301.5	3288.2	3251.0	3203.1	3144.7	3070.2	2985.2	2873.5	2759.2	2642.3
42.5°	3038.3	3041.0	3025.0	2995.8	2950.6	2894.8	2817.7	2724.7	2605.1	2469.5	2318.0
45°	2722.0	2722.0	2716.7	2692.7	2660.9	2615.7	2557.2	2480.1	2363.2	2224.9	2062.7
47.5°	2392.4	2395.0	2387.0	2381.8	2368.4	2339.2	2296.7	2238.2	2155.8	2022.9	1860.7
50°	2057.5	2057.5	2070.7	2068.1	2068.1	2057.5	2038.9	2004.3	1932.5	1826.2	1674.7
52.5°	1722.5	1727.8	1735.8	1746.4	1759.7	1781.0	1759.7	1743.8	1698.6	1616.2	1486.0
55°	1376.9	1382.3	1395.5	1414.1	1430.1	1451.4	1456.7	1456.7	1432.7	1376.9	1278.6
57.5°	1081.9	1073.9	1084.6	1100.5	1121.8	1143.0	1159.0	1177.6	1174.9	1137.7	1058.0
60°	813.4	816.1	824.0	840.0	856.0	874.6	895.8	911.8	919.8	901.2	850.6
62.5°	592.8	592.8	603.4	619.3	627.3	653.9	667.2	675.2	683.1	680.5	648.6
65°	414.7	420.0	425.3	433.3	441.2	457.2	465.2	481.1	486.4	489.1	465.2
67.5°	292.4	284.4	289.8	295.0	303.0	313.7	329.6	329.6	337.6	337.6	321.6
70°	186.1	186.1	188.8	196.7	202.0	204.7	210.0	215.3	223.3	220.6	220.6
72.5°	124.9	122.3	124.9	127.6	130.3	138.2	138.2	140.9	146.2	148.9	138.2
75°	63.8	66.5	71.7	69.1	77.1	71.7	74.4	82.4	79.7	74.4	74.4
77.5°	53.1	53.1	53.1	50.5	55.8	55.8	53.1	58.5	55.8	55.8	53.1
80°	37.2	39.9	37.2	34.5	37.2	34.5	34.5	34.5	34.5	34.5	31.9
82.5°	29.3	23.9	26.6	23.9	26.6	26.6	23.9	21.3	21.3	23.9	21.3
85°	21.3	15.9	18.6	18.6	15.9	15.9	15.9	15.9	15.9	13.3	13.3
87.5°	13.3	8.0	8.0	8.0	10.6	10.6	10.6	8.0	10.6	10.6	5.3
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: P249419

CATALOG NUMBER: LD8B100D010 ER8B100830 8LBDW0B

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	4952.2	4952.2	4952.2	4952.2	4952.2	4952.2	4952.2	4952.2	4952.2	4952.2	4952.2
2.5°	4960.2	4957.6	4962.9	4960.2	4960.2	4957.6	4960.2	4957.6	4962.9	4952.2	4954.9
5°	4960.2	4954.9	4957.6	4960.2	4962.9	4957.6	4957.6	4957.6	4962.9	4957.6	4960.2
7.5°	4949.6	4946.9	4954.9	4960.2	4957.6	4954.9	4960.2	4957.6	4962.9	4960.2	4965.5
10°	4928.3	4931.0	4936.3	4944.2	4946.9	4949.6	4954.9	4954.9	4962.9	4952.2	4957.6
12.5°	4896.4	4907.0	4920.4	4925.6	4936.3	4936.3	4941.6	4944.2	4949.6	4946.9	4954.9
15°	4856.6	4869.8	4885.8	4899.1	4912.4	4920.4	4928.3	4931.0	4939.0	4931.0	4933.6
17.5°	4808.7	4824.6	4848.6	4864.5	4885.8	4893.8	4904.4	4909.7	4917.7	4912.4	4915.0
20°	4742.2	4760.9	4787.4	4811.4	4824.6	4843.2	4856.6	4864.5	4869.8	4864.5	4867.2
22.5°	4649.2	4675.8	4710.3	4728.9	4755.6	4771.5	4774.2	4792.8	4806.0	4792.8	4798.1
25°	4540.2	4566.8	4593.4	4633.3	4657.2	4675.8	4694.4	4697.1	4710.3	4707.7	4705.0
27.5°	4359.4	4394.0	4439.2	4471.1	4503.0	4532.3	4553.5	4558.8	4572.1	4566.8	4569.5
30°	4112.2	4149.5	4192.0	4242.5	4287.7	4316.9	4343.5	4362.1	4375.4	4367.4	4364.8
32.5°	3761.4	3798.6	3843.8	3894.3	3947.5	3989.9	4021.9	4045.8	4061.7	4056.4	4043.1
35°	3360.0	3370.6	3399.9	3439.7	3484.9	3530.1	3559.4	3585.9	3604.5	3609.8	3609.8
37.5°	2948.0	2913.4	2892.2	2892.2	2918.7	2937.3	2963.9	2979.8	3009.1	3019.7	3027.7
40°	2549.2	2469.5	2395.0	2339.2	2302.0	2299.4	2299.4	2307.3	2333.9	2368.4	2400.4
42.5°	2193.0	2065.4	1951.1	1847.5	1773.0	1730.5	1711.9	1714.6	1735.8	1767.7	1820.9
45°	1908.6	1749.1	1605.6	1480.6	1379.6	1313.1	1281.3	1278.6	1294.5	1331.7	1390.3
47.5°	1688.0	1517.8	1355.7	1212.1	1103.2	1031.4	994.2	983.6	994.2	1028.7	1097.8
50°	1504.6	1329.1	1161.7	1012.8	895.8	821.4	786.8	773.5	786.8	816.1	885.2
52.5°	1334.4	1153.7	996.8	853.3	728.3	664.5	627.3	619.3	627.3	661.9	717.7
55°	1137.7	983.6	829.4	685.8	576.9	513.1	483.8	475.8	483.8	515.7	574.2
57.5°	943.7	810.7	675.2	544.9	451.9	396.0	369.5	358.8	377.4	398.7	467.8
60°	762.9	656.6	542.3	428.0	350.9	300.4	279.1	276.4	281.8	308.4	356.2
62.5°	598.1	510.4	420.0	327.0	263.2	241.9	215.3	212.7	218.0	233.9	271.2
65°	430.6	374.8	305.7	239.2	188.8	159.5	148.9	151.5	156.8	167.5	202.0
67.5°	300.4	260.5	212.7	167.5	130.3	116.9	106.3	103.7	106.3	124.9	143.5
70°	202.0	178.1	143.5	127.6	90.4	71.7	74.4	66.5	77.1	77.1	93.0
72.5°	132.9	116.9	95.7	74.4	63.8	50.5	50.5	47.9	53.1	55.8	69.1
75°	69.1	53.1	53.1	37.2	26.6	13.3	23.9	21.3	18.6	21.3	26.6
77.5°	47.9	39.9	37.2	29.3	26.6	21.3	21.3	21.3	21.3	23.9	26.6
80°	29.3	29.3	21.3	18.6	15.9	13.3	15.9	15.9	15.9	15.9	18.6
82.5°	18.6	15.9	15.9	13.3	13.3	10.6	10.6	10.6	10.6	10.6	15.9
85°	15.9	10.6	10.6	8.0	10.6	18.6	8.0	10.6	10.6	10.6	8.0
87.5°	5.3	8.0	8.0	8.0	5.3	2.7	5.3	8.0	8.0	13.3	10.6
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: P249419

CATALOG NUMBER: LD8B100D010 ER8B100830 8LBDW0B

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4952.2	4952.2	4952.2	4952.2	4952.2	4952.2	4952.2	4952.2	4952.2	4952.2	4952.2
2.5°	4960.2	4962.9	4962.9	4960.2	4960.2	4954.9	4965.5	4957.6	4960.2	4970.8	4962.9
5°	4965.5	4968.2	4968.2	4965.5	4965.5	4965.5	4968.2	4968.2	4965.5	4962.9	4968.2
7.5°	4976.2	4973.5	4973.5	4968.2	4968.2	4962.9	4968.2	4960.2	4965.5	4960.2	4968.2
10°	4962.9	4965.5	4962.9	4960.2	4960.2	4957.6	4957.6	4949.6	4952.2	4944.2	4949.6
12.5°	4954.9	4952.2	4952.2	4946.9	4941.6	4936.3	4933.6	4925.6	4925.6	4907.0	4915.0
15°	4933.6	4936.3	4928.3	4917.7	4912.4	4899.1	4893.8	4883.1	4872.5	4859.2	4861.9
17.5°	4915.0	4907.0	4896.4	4885.8	4864.5	4853.9	4843.2	4827.3	4822.0	4806.0	4800.8
20°	4859.2	4853.9	4840.6	4822.0	4808.7	4784.8	4774.2	4758.2	4744.9	4728.9	4720.9
22.5°	4787.4	4782.1	4766.2	4747.6	4726.3	4715.7	4705.0	4675.8	4662.5	4646.5	4643.9
25°	4697.1	4689.1	4673.1	4651.9	4641.2	4612.0	4601.3	4580.1	4574.8	4558.8	4556.2
27.5°	4558.8	4548.2	4529.6	4503.0	4484.4	4465.8	4455.2	4439.2	4433.9	4417.9	4415.3
30°	4351.5	4338.2	4301.0	4290.4	4258.4	4239.8	4239.8	4218.6	4221.2	4210.6	4210.6
32.5°	4024.5	4003.3	3974.0	3952.7	3931.5	3920.9	3920.9	3912.9	3918.2	3918.2	3923.5
35°	3591.2	3562.0	3546.0	3532.8	3532.8	3543.4	3575.3	3583.3	3599.2	3612.5	3623.2
37.5°	3035.6	3033.0	3051.6	3067.6	3107.4	3152.7	3208.5	3256.3	3301.5	3333.4	3365.3
40°	2434.9	2501.4	2554.5	2629.0	2690.1	2777.8	2878.8	2961.2	3038.3	3094.2	3152.7
42.5°	1900.6	1985.7	2097.3	2206.3	2315.3	2434.9	2567.9	2682.1	2783.1	2860.2	2921.4
45°	1480.6	1597.6	1733.2	1871.4	2012.3	2161.2	2299.4	2416.3	2522.7	2602.4	2663.5
47.5°	1193.5	1321.1	1475.3	1626.8	1786.3	1943.1	2097.3	2198.4	2286.0	2349.8	2405.7
50°	986.2	1121.8	1283.9	1456.7	1616.2	1773.0	1905.9	2004.3	2076.1	2131.9	2166.4
52.5°	824.0	967.6	1140.4	1313.1	1472.6	1616.2	1735.8	1810.3	1868.7	1908.6	1940.5
55°	680.5	818.7	980.9	1143.0	1299.9	1435.4	1533.8	1589.6	1634.8	1658.7	1677.3
57.5°	555.6	683.1	832.0	980.9	1116.4	1228.1	1305.2	1361.0	1382.3	1400.9	1398.2
60°	436.0	555.6	691.1	818.7	935.7	1026.0	1081.9	1113.8	1129.7	1137.7	1132.4
62.5°	342.9	451.9	555.6	667.2	752.3	829.4	882.6	882.6	890.5	893.2	901.2
65°	255.2	337.6	428.0	510.4	579.5	630.0	659.3	667.2	677.9	675.2	669.9
67.5°	188.8	249.9	316.3	377.4	425.3	457.2	478.5	497.1	494.4	489.1	486.4
70°	130.3	170.1	228.6	265.8	300.4	332.3	337.6	340.2	342.9	345.6	340.2
72.5°	90.4	119.6	151.5	183.4	204.7	218.0	231.3	233.9	233.9	233.9	231.3
75°	45.2	61.1	90.4	103.7	122.3	127.6	138.2	138.2	146.2	135.5	132.9
77.5°	39.9	47.9	63.8	74.4	82.4	90.4	93.0	101.0	98.3	93.0	95.7
80°	23.9	29.3	39.9	45.2	55.8	58.5	61.1	63.8	61.1	63.8	63.8
82.5°	18.6	21.3	26.6	26.6	34.5	34.5	37.2	37.2	39.9	39.9	39.9
85°	10.6	18.6	15.9	31.9	21.3	21.3	26.6	31.9	26.6	26.6	31.9
87.5°	10.6	10.6	8.0	10.6	10.6	10.6	13.3	15.9	15.9	18.6	15.9
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: P249419

CATALOG NUMBER: LD8B100D010 ER8B100830 8LBDW0B

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	4952.2	4952.2	4952.2	4952.2
2.5°	4960.2	4965.5	4957.6	4954.9
5°	4968.2	4968.2	4962.9	4962.9
7.5°	4968.2	4968.2	4960.2	4954.9
10°	4946.9	4946.9	4939.0	4933.6
12.5°	4907.0	4907.0	4904.4	4896.4
15°	4856.6	4856.6	4845.9	4838.0
17.5°	4787.4	4792.8	4779.5	4779.5
20°	4713.0	4710.3	4699.7	4694.4
22.5°	4635.9	4630.6	4627.9	4612.0
25°	4553.5	4548.2	4540.2	4532.3
27.5°	4412.6	4410.0	4402.0	4391.4
30°	4197.3	4194.6	4184.0	4184.0
32.5°	3918.2	3915.5	3904.9	3907.6
35°	3628.4	3639.1	3633.8	3623.2
37.5°	3386.5	3394.5	3399.9	3394.5
40°	3184.5	3208.5	3211.1	3216.5
42.5°	2969.2	3001.1	3011.8	3017.0
45°	2711.3	2740.6	2764.5	2759.2
47.5°	2448.2	2469.5	2490.7	2474.8
50°	2195.7	2209.0	2217.0	2217.0
52.5°	1956.5	1956.5	1953.8	1956.5
55°	1682.6	1682.6	1672.0	1677.3
57.5°	1395.5	1400.9	1392.9	1379.6
60°	1129.7	1116.4	1111.1	1103.2
62.5°	879.9	879.9	861.3	885.2
65°	659.3	651.3	643.3	640.6
67.5°	478.5	475.8	467.8	465.2
70°	337.6	327.0	324.3	319.0
72.5°	226.0	226.0	220.6	220.6
75°	138.2	124.9	122.3	124.9
77.5°	95.7	93.0	93.0	90.4
80°	63.8	61.1	66.5	58.5
82.5°	39.9	42.5	39.9	42.5
85°	26.6	31.9	29.3	29.3
87.5°	15.9	15.9	15.9	15.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)