

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: P248429

Luminaire Tested: **LD8B100D010 ER8B100930 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248429
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: LD8B100D010 ER8B100930 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: 9438.8 lumens
Efficiency: N/A
Efficacy: 88.8 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

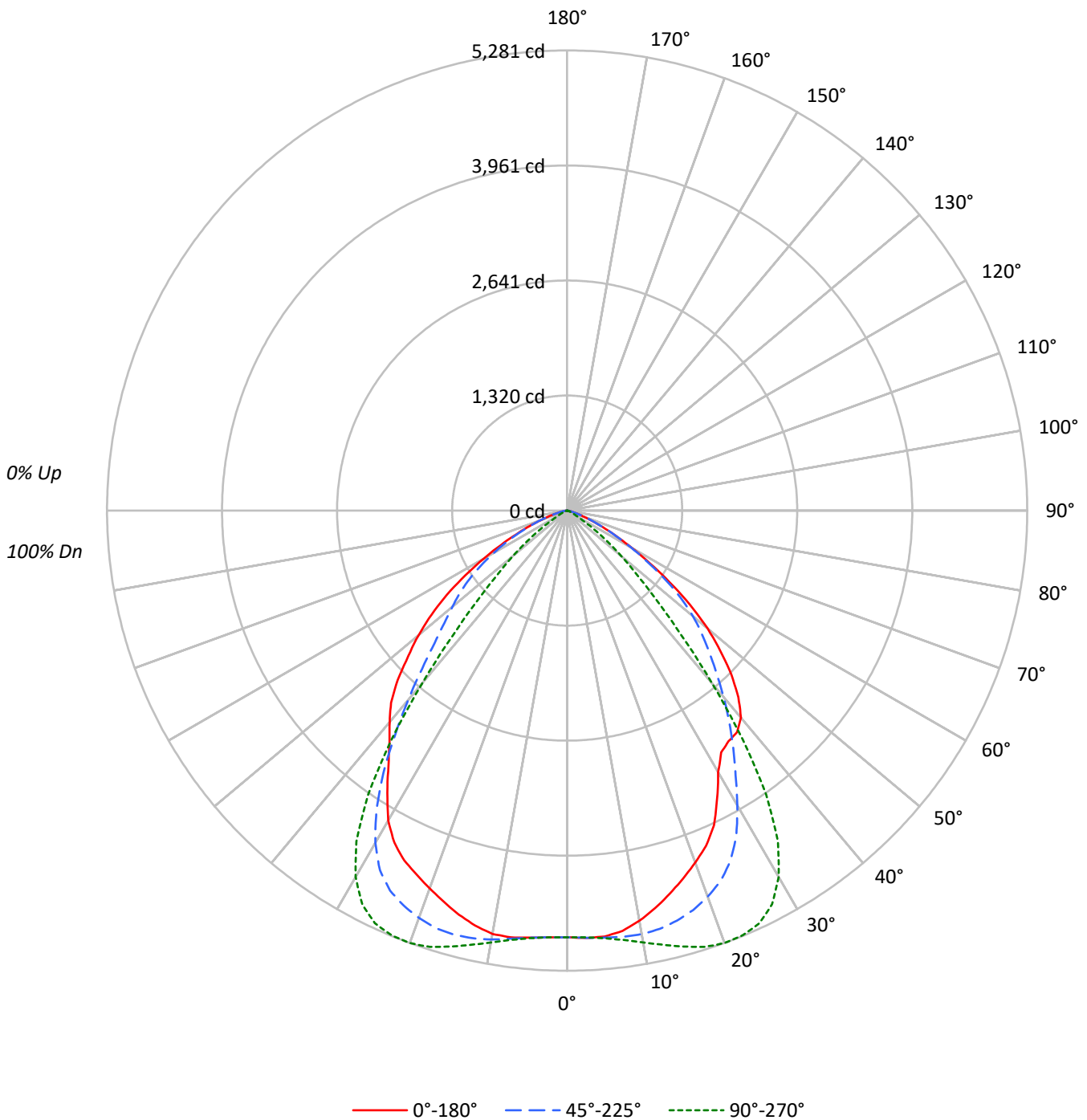
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	470.9	5.0
10°-20°	1395.0	14.8
20°-30°	2128.2	22.5
30°-40°	2220.8	23.5
40°-50°	1668.1	17.7
50°-60°	1026.3	10.9
60°-70°	417.7	4.4
70°-80°	98.4	1.0
80°-90°	13.6	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°	3994.0	42.3
0°-40°	6214.8	65.8
0°-60°	8909.2	94.4
0°-90°	9438.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9438.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4896	4896	4896	4896	4896	
5°	4907	4920	4925	4920	4920	464
15°	4551	4871	5180	5037	4800	1282
25°	3987	4434	5224	4811	4429	1813
35°	3231	3322	3979	3678	3574	2040
45°	2667	2308	1440	2149	2750	2035
55°	1440	1367	377	1367	1687	1294
65°	450	455	57	611	647	469
75°	78	78	10	138	143	94
85°	8	8	3	18	23	11
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°	4896.5	4896.5	4896.5	4896.5	4896.5	4896.5	4896.5	4896.5	4896.5	4896.5	4896.5
2.5°	4909.5	4901.8	4909.5	4909.5	4912.2	4907.0	4909.5	4912.2	4907.0	4907.0	4907.0
5°	4907.0	4901.8	4907.0	4904.4	4909.5	4909.5	4914.8	4914.8	4920.0	4920.0	4927.8
7.5°	4865.4	4855.1	4865.4	4873.2	4878.4	4888.8	4901.8	4912.2	4922.5	4933.0	4946.0
10°	4779.6	4779.6	4787.5	4802.9	4818.5	4836.8	4860.1	4886.2	4912.2	4935.5	4959.0
12.5°	4673.1	4665.3	4680.8	4701.6	4725.0	4753.6	4790.0	4829.0	4870.6	4917.3	4953.8
15°	4550.9	4543.1	4561.2	4582.1	4610.7	4652.3	4696.4	4748.4	4808.2	4870.6	4930.4
17.5°	4426.2	4423.5	4441.7	4470.3	4493.8	4537.8	4595.1	4657.4	4725.0	4808.2	4886.2
20°	4298.8	4296.2	4314.4	4337.8	4369.0	4410.6	4467.7	4540.5	4621.0	4714.7	4805.6
22.5°	4166.2	4168.8	4184.4	4210.4	4236.4	4280.5	4340.3	4413.2	4501.5	4602.8	4704.2
25°	3986.8	3973.9	3994.7	4020.7	4064.9	4101.2	4158.5	4236.4	4327.4	4433.9	4553.5
27.5°	3727.0	3724.4	3742.6	3766.0	3804.9	3849.2	3911.5	3992.1	4088.3	4205.2	4322.1
30°	3467.0	3472.3	3480.1	3503.5	3529.5	3573.6	3636.1	3703.7	3794.6	3906.3	4031.1
32.5°	3290.4	3290.4	3300.8	3316.4	3334.5	3358.0	3402.1	3451.4	3521.7	3599.6	3690.6
35°	3230.6	3220.2	3230.6	3233.2	3235.8	3241.0	3248.8	3264.4	3287.8	3321.5	3355.4
37.5°	3204.6	3196.8	3196.8	3186.4	3173.4	3157.9	3137.0	3113.6	3087.7	3053.8	3027.9
40°	3103.3	3098.0	3092.8	3082.4	3053.8	3022.7	2988.8	2934.3	2874.5	2791.3	2708.2
42.5°	2908.3	2903.2	2900.5	2879.7	2853.7	2817.3	2778.4	2721.2	2645.8	2539.3	2419.7
45°	2666.6	2656.2	2648.5	2630.2	2612.0	2580.9	2544.4	2492.4	2417.1	2307.9	2165.0
47.5°	2385.9	2380.7	2378.1	2370.4	2352.2	2333.9	2310.6	2268.9	2201.3	2097.4	1949.3
50°	2102.5	2092.2	2097.4	2094.8	2087.0	2074.1	2058.4	2029.8	1977.8	1884.3	1749.1
52.5°	1777.7	1777.7	1775.1	1783.0	1785.5	1783.0	1785.5	1754.4	1710.2	1639.9	1525.6
55°	1439.8	1439.8	1447.7	1458.1	1468.4	1471.1	1468.4	1455.5	1424.2	1367.1	1265.7
57.5°	1122.8	1117.6	1133.2	1148.8	1159.2	1169.5	1161.7	1151.4	1133.2	1086.4	1008.5
60°	855.1	855.1	865.4	875.8	886.3	896.7	894.1	891.4	875.8	844.7	782.3
62.5°	629.0	631.6	631.6	639.4	649.7	660.2	667.9	660.2	652.3	631.6	590.0
65°	449.6	447.1	449.6	457.5	465.2	475.6	480.8	478.2	470.4	454.8	423.6
67.5°	301.5	298.9	309.3	311.9	317.1	327.6	324.9	327.6	324.9	311.9	286.0
70°	197.5	192.4	197.5	194.9	202.8	205.4	210.5	213.1	210.5	202.8	194.9
72.5°	122.2	119.6	122.2	124.8	127.3	129.9	135.2	135.2	132.5	127.3	116.9
75°	78.0	70.2	72.8	67.6	72.8	72.8	78.0	80.6	78.0	78.0	72.8
77.5°	46.9	46.9	46.9	46.9	46.9	46.9	46.9	49.4	51.9	46.9	44.2
80°	23.4	23.4	26.0	26.0	26.0	28.6	26.0	26.0	26.0	28.6	20.9
82.5°	18.2	15.6	15.6	15.6	18.2	15.6	15.6	15.6	15.6	15.6	15.6
85°	7.8	10.3	7.8	5.3	7.8	7.8	10.3	7.8	7.8	7.8	10.3
87.5°	2.6	2.6	0.0	0.0	0.0	2.6	0.0	2.6	2.6	5.3	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°	4896.5	4896.5	4896.5	4896.5	4896.5	4896.5	4896.5	4896.5	4896.5	4896.5	4896.5
2.5°	4909.5	4904.4	4904.4	4901.8	4907.0	4901.8	4904.4	4901.8	4901.8	4907.0	4901.8
5°	4927.8	4930.4	4925.1	4922.5	4930.4	4930.4	4930.4	4925.1	4925.1	4927.8	4925.1
7.5°	4953.8	4959.0	4961.5	4964.1	4969.4	4972.0	4972.0	4969.4	4966.7	4974.5	4964.1
10°	4982.3	4990.1	5005.7	5013.6	5026.6	5026.6	5031.7	5031.7	5026.6	5031.7	5029.1
12.5°	4972.0	5018.7	5044.7	5062.9	5081.0	5096.6	5101.9	5104.5	5101.9	5112.3	5101.9
15°	4990.1	5029.1	5070.7	5101.9	5135.6	5153.8	5159.1	5179.8	5185.1	5187.7	5172.1
17.5°	4961.5	5031.7	5075.9	5122.6	5172.1	5205.8	5237.0	5250.1	5252.7	5257.8	5237.0
20°	4896.5	4974.5	5042.1	5109.7	5166.9	5218.8	5244.8	5281.3	5270.8	5291.7	5263.0
22.5°	4808.2	4896.5	4982.3	5070.7	5130.5	5192.9	5247.4	5273.4	5286.4	5286.4	5255.2
25°	4667.8	4771.9	4865.4	4956.3	5047.3	5122.6	5185.1	5224.1	5231.8	5229.2	5192.9
27.5°	4449.5	4561.2	4670.4	4774.5	4886.2	4974.5	5047.3	5094.0	5107.1	5107.1	5068.2
30°	4148.0	4267.5	4374.1	4498.9	4613.3	4712.0	4813.5	4855.1	4878.4	4878.4	4834.2
32.5°	3789.3	3890.8	3989.5	4111.6	4236.4	4348.1	4444.3	4501.5	4530.1	4527.5	4488.5
35°	3399.5	3448.9	3524.3	3615.2	3727.0	3830.9	3924.5	3979.1	4028.4	4025.8	3989.5
37.5°	3009.7	2996.7	3004.5	3038.2	3108.4	3181.2	3253.9	3305.9	3347.5	3365.8	3358.0
40°	2627.6	2560.0	2495.0	2471.7	2476.8	2502.9	2541.9	2580.9	2627.6	2651.1	2661.4
42.5°	2284.5	2170.1	2055.8	1970.0	1920.6	1905.0	1923.3	1936.2	1964.9	1998.6	2032.5
45°	2009.1	1855.7	1704.9	1572.4	1489.2	1439.8	1429.5	1439.8	1455.5	1489.2	1533.4
47.5°	1783.0	1603.6	1434.7	1286.5	1164.4	1099.4	1081.2	1076.0	1091.6	1122.8	1182.5
50°	1582.7	1403.5	1216.4	1044.8	917.4	844.7	818.7	808.2	826.5	849.8	904.4
52.5°	1364.5	1187.7	995.4	829.1	696.6	621.1	592.6	577.0	587.4	618.6	673.2
55°	1128.0	964.2	790.1	618.6	491.2	421.0	387.2	376.9	387.2	421.0	475.6
57.5°	891.4	753.8	608.1	447.1	332.7	262.5	228.7	218.4	247.0	260.0	317.1
60°	696.6	584.8	460.1	327.6	228.7	174.1	140.3	132.5	145.6	168.9	215.7
62.5°	522.4	452.2	353.5	234.0	168.9	111.8	93.5	85.8	93.5	111.8	148.2
65°	379.5	324.9	247.0	171.5	114.3	83.2	62.4	57.2	65.0	78.0	109.2
67.5°	260.0	218.4	171.5	119.6	78.0	51.9	44.2	44.2	46.9	57.2	80.6
70°	168.9	142.9	109.2	78.0	51.9	39.0	33.7	28.6	33.7	41.6	54.6
72.5°	106.6	90.9	70.2	54.6	39.0	28.6	23.4	20.9	26.0	31.2	41.6
75°	65.0	49.4	36.3	28.6	20.9	20.9	20.9	10.3	13.0	20.9	26.0
77.5°	39.0	33.7	28.6	23.4	18.2	10.3	10.3	10.3	13.0	15.6	23.4
80°	20.9	18.2	13.0	13.0	10.3	7.8	10.3	7.8	5.3	13.0	15.6
82.5°	13.0	10.3	10.3	10.3	13.0	5.3	7.8	5.3	7.8	10.3	7.8
85°	7.8	7.8	7.8	5.3	13.0	5.3	5.3	2.6	2.6	5.3	5.3
87.5°	0.0	2.6	2.6	0.0	2.6	0.0	2.6	2.6	2.6	2.6	2.6
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°	4896.5	4896.5	4896.5	4896.5	4896.5	4896.5	4896.5	4896.5	4896.5	4896.5	4896.5
2.5°	4904.4	4901.8	4904.4	4901.8	4901.8	4901.8	4904.4	4904.4	4901.8	4901.8	4907.0
5°	4925.1	4925.1	4925.1	4922.5	4920.0	4920.0	4925.1	4925.1	4917.3	4925.1	4925.1
7.5°	4969.4	4961.5	4969.4	4959.0	4953.8	4956.3	4959.0	4953.8	4948.5	4951.1	4951.1
10°	5026.6	5018.7	5018.7	5011.0	5003.1	4997.9	4992.7	4979.7	4966.7	4964.1	4953.8
12.5°	5094.0	5081.0	5073.3	5057.7	5044.7	5026.6	5011.0	4990.1	4964.1	4946.0	4927.8
15°	5161.6	5140.9	5122.6	5096.6	5068.2	5036.9	5003.1	4969.4	4927.8	4891.4	4860.1
17.5°	5216.2	5187.7	5153.8	5112.3	5070.7	5023.9	4974.5	4925.1	4865.4	4818.5	4782.2
20°	5234.4	5192.9	5148.6	5094.0	5039.5	4974.5	4912.2	4847.2	4779.6	4730.3	4688.6
22.5°	5211.1	5161.6	5107.1	5049.9	4977.1	4907.0	4834.2	4758.8	4699.0	4631.4	4592.5
25°	5146.1	5086.3	5026.6	4959.0	4888.8	4810.8	4732.9	4654.8	4582.1	4545.7	4496.3
27.5°	5013.6	4948.5	4883.5	4813.5	4732.9	4654.8	4574.2	4498.9	4436.6	4387.1	4358.6
30°	4779.6	4704.2	4628.8	4553.5	4483.3	4402.7	4327.4	4265.0	4202.6	4163.6	4135.0
32.5°	4420.9	4353.4	4278.0	4205.2	4140.3	4072.7	4010.3	3955.7	3911.5	3885.5	3864.8
35°	3937.5	3869.9	3812.7	3760.8	3706.1	3677.7	3638.7	3607.4	3589.2	3578.9	3576.2
37.5°	3329.4	3290.4	3272.2	3261.8	3251.3	3243.6	3248.8	3261.8	3272.2	3290.4	3311.1
40°	2679.6	2713.4	2723.8	2760.1	2794.0	2838.1	2887.6	2944.8	2991.5	3051.2	3092.8
42.5°	2087.0	2149.4	2222.2	2300.1	2383.2	2463.8	2562.6	2653.6	2736.8	2812.1	2877.2
45°	1603.6	1699.8	1809.0	1920.6	2032.5	2149.4	2268.9	2380.7	2479.4	2560.0	2627.6
47.5°	1250.1	1356.7	1497.1	1634.8	1769.9	1907.7	2040.2	2157.1	2240.3	2318.3	2378.1
50°	990.2	1112.4	1265.7	1424.2	1572.4	1717.9	1858.3	1967.5	2050.6	2113.0	2157.1
52.5°	766.7	912.3	1068.2	1234.6	1393.1	1551.6	1681.5	1783.0	1850.5	1905.0	1938.9
55°	571.8	714.7	881.1	1052.6	1213.7	1367.1	1489.2	1577.6	1637.4	1668.6	1686.8
57.5°	413.2	543.2	709.5	881.1	1026.6	1172.1	1270.9	1351.5	1385.2	1403.5	1411.2
60°	301.5	421.0	569.1	717.3	855.1	972.0	1057.8	1112.4	1138.4	1148.8	1146.1
62.5°	220.9	324.9	452.2	577.0	688.7	784.9	852.5	888.8	901.8	907.0	899.3
65°	168.9	249.5	358.7	454.8	540.7	610.7	660.2	683.6	691.3	688.7	683.6
67.5°	124.8	187.2	267.7	340.4	402.9	457.5	483.5	504.2	509.4	501.6	493.8
70°	88.4	137.8	194.9	244.4	291.1	322.3	350.9	353.5	353.5	350.9	345.7
72.5°	62.4	96.2	132.5	166.4	194.9	218.4	228.7	236.5	234.0	231.3	226.1
75°	41.6	59.7	96.2	104.0	129.9	137.8	148.2	148.2	150.7	142.9	142.9
77.5°	26.0	41.6	57.2	67.6	78.0	88.4	93.5	93.5	96.2	93.5	93.5
80°	15.6	26.0	31.2	46.9	46.9	54.6	57.2	59.7	54.6	62.4	54.6
82.5°	10.3	15.6	23.4	23.4	28.6	33.7	33.7	36.3	36.3	33.7	33.7
85°	7.8	10.3	13.0	15.6	15.6	18.2	15.6	15.6	18.2	20.9	18.2
87.5°	2.6	5.3	2.6	5.3	5.3	10.3	7.8	7.8	7.8	10.3	10.3
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: P248429

CATALOG NUMBER: LD8B100D010 ER8B100930 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	4896.5	4896.5	4896.5	4896.5
2.5°	4901.8	4904.4	4901.8	4901.8
5°	4925.1	4922.5	4925.1	4920.0
7.5°	4943.4	4943.4	4940.7	4940.7
10°	4943.4	4933.0	4933.0	4933.0
12.5°	4904.4	4891.4	4883.5	4878.4
15°	4836.8	4813.5	4802.9	4800.3
17.5°	4748.4	4727.6	4714.7	4706.9
20°	4647.0	4626.3	4610.7	4613.3
22.5°	4558.7	4535.3	4524.9	4519.6
25°	4470.3	4441.7	4433.9	4428.7
27.5°	4327.4	4311.8	4304.0	4296.2
30°	4109.0	4101.2	4088.3	4106.4
32.5°	3856.9	3843.9	3833.6	3841.3
35°	3578.9	3571.1	3578.9	3573.6
37.5°	3324.2	3331.9	3342.4	3347.5
40°	3124.0	3152.6	3163.0	3168.2
42.5°	2923.9	2957.6	2978.5	2991.5
45°	2676.9	2710.8	2734.1	2749.8
47.5°	2422.3	2451.0	2474.3	2471.7
50°	2191.0	2206.6	2216.9	2227.3
52.5°	1957.0	1957.0	1959.6	1959.6
55°	1691.9	1686.8	1684.2	1686.8
57.5°	1400.8	1395.6	1393.1	1385.2
60°	1135.8	1120.2	1109.8	1109.8
62.5°	888.8	870.7	862.9	860.3
65°	667.9	665.3	649.7	647.2
67.5°	483.5	473.1	462.6	465.2
70°	340.4	324.9	324.9	319.7
72.5°	220.9	213.1	210.5	210.5
75°	137.8	137.8	132.5	142.9
77.5°	90.9	90.9	88.4	90.9
80°	54.6	54.6	54.6	51.9
82.5°	33.7	36.3	33.7	33.7
85°	18.2	20.9	15.6	23.4
87.5°	10.3	13.0	10.3	13.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)