

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: P249338

Luminaire Tested: **LD8B100D010 ER8B100850 8LBDW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249338
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 ER8B100850 8LBDW0GPH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 5000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10921.0 lumens
Efficiency: N/A
Efficacy: 102.7 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

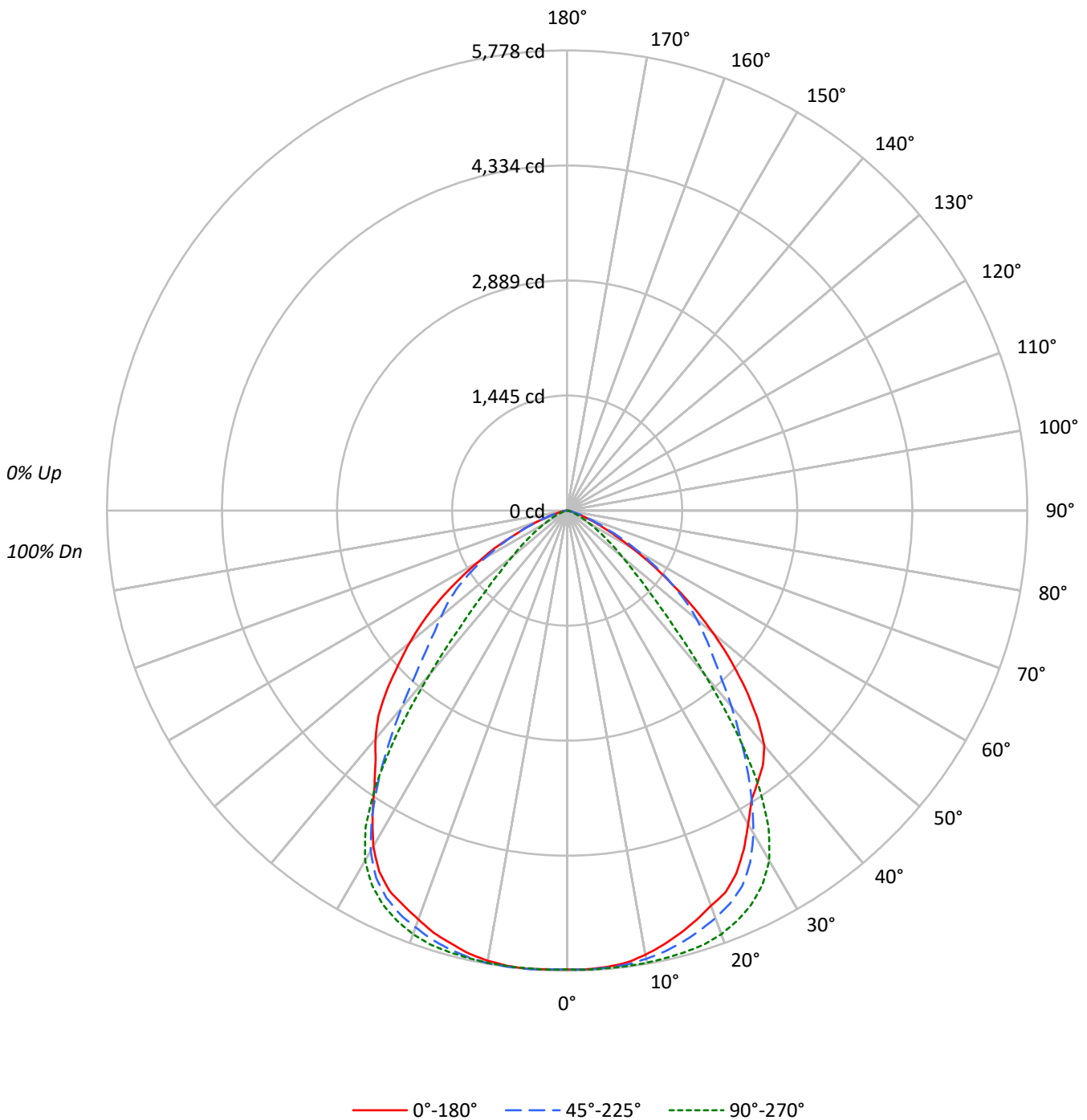
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	177682	177682	177682
5°	178073	178553	178744
10°	177323	180520	179747
15°	175359	183161	179707
20°	173255	185735	179241
25°	171005	185949	179426
30°	161779	180722	173344
35°	156950	157063	158697
40°	155006	108066	150650
45°	138119	64877	140007
50°	114847	43180	123746
55°	86131	29768	104921
60°	58367	19834	79163
65°	35206	12864	54388
70°	19519	6969	33458
75°	8840	2943	17323
80°	7689	3285	12075
85°	8739	4352	12065



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	549.9	5.0
10°-20°	1597.0	14.6
20°-30°	2424.0	22.2
30°-40°	2545.9	23.3
40°-50°	1908.8	17.5
50°-60°	1224.7	11.2
60°-70°	523.9	4.8
70°-80°	123.8	1.1
80°-90°	23.0	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°	4570.9	41.9
0°-40°	7116.8	65.2
0°-60°	10250.3	93.9
0°-90°	10921.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10921.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5762	5762	5762	5762	5762	
5°	5753	5762	5768	5778	5774	546
15°	5493	5608	5737	5700	5629	1549
25°	5026	5202	5465	5366	5274	2296
35°	4169	3937	4172	4123	4216	2617
45°	3167	2589	1488	2515	3210	2426
55°	1602	1602	554	1670	1952	1453
65°	482	569	176	733	745	515
75°	74	87	25	148	145	108
85°	25	15	12	25	34	26
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°	5762.1	5762.1	5762.1	5762.1	5762.1	5762.1	5762.1	5762.1	5762.1	5762.1	5762.1
2.5°	5765.2	5771.4	5768.3	5768.3	5765.2	5768.3	5768.3	5774.5	5774.5	5768.3	5765.2
5°	5752.8	5759.0	5759.0	5752.8	5752.8	5768.3	5759.0	5765.2	5765.2	5762.1	5762.1
7.5°	5725.1	5725.1	5737.4	5728.2	5728.2	5737.4	5734.3	5740.5	5746.7	5749.8	5749.8
10°	5663.1	5669.4	5672.5	5672.5	5675.6	5684.8	5691.0	5703.4	5709.5	5715.7	5718.8
12.5°	5585.9	5595.1	5598.2	5595.1	5604.4	5616.8	5632.3	5647.7	5657.0	5669.4	5678.7
15°	5493.0	5493.0	5499.2	5508.5	5514.7	5533.3	5548.7	5567.3	5592.0	5607.5	5623.0
17.5°	5391.0	5397.2	5406.4	5406.4	5418.9	5449.7	5459.0	5486.9	5514.7	5530.2	5561.1
20°	5279.7	5285.8	5295.1	5301.3	5316.8	5341.5	5360.1	5384.8	5415.7	5443.6	5474.5
22.5°	5193.0	5180.7	5186.8	5193.0	5208.5	5230.2	5251.8	5282.7	5313.7	5341.5	5372.5
25°	5026.0	5029.1	5038.4	5044.5	5063.2	5081.7	5106.4	5143.5	5171.4	5202.3	5236.3
27.5°	4800.3	4803.4	4818.8	4818.8	4834.2	4865.2	4880.6	4911.6	4948.7	4979.6	5019.9
30°	4543.5	4549.7	4549.7	4562.1	4571.3	4586.8	4602.3	4633.2	4651.8	4679.6	4735.3
32.5°	4308.5	4314.6	4311.5	4308.5	4299.2	4296.1	4293.0	4299.2	4305.4	4314.6	4336.3
35°	4169.3	4153.8	4141.5	4119.8	4095.1	4064.1	4036.3	3999.2	3965.1	3937.3	3906.4
37.5°	4036.3	4033.2	4014.6	3983.7	3934.2	3878.6	3813.6	3733.2	3652.7	3566.2	3482.7
40°	3850.7	3841.4	3826.0	3782.7	3727.0	3658.9	3572.4	3473.4	3343.4	3210.5	3074.4
42.5°	3535.2	3538.3	3519.8	3485.7	3433.2	3368.2	3278.5	3170.3	3031.1	2873.3	2697.1
45°	3167.2	3167.2	3161.0	3133.1	3096.0	3043.4	2975.4	2885.7	2749.6	2588.8	2400.1
47.5°	2783.6	2786.7	2777.4	2771.3	2755.8	2721.8	2672.3	2604.3	2508.4	2353.7	2165.0
50°	2394.0	2394.0	2409.4	2406.3	2406.3	2394.0	2372.3	2332.1	2248.6	2124.8	1948.6
52.5°	2004.2	2010.4	2019.7	2032.1	2047.5	2072.2	2047.5	2029.0	1976.4	1880.5	1729.0
55°	1602.1	1608.3	1623.8	1645.4	1664.0	1688.8	1694.9	1694.9	1667.1	1602.1	1487.7
57.5°	1258.8	1249.5	1261.9	1280.5	1305.2	1330.0	1348.5	1370.2	1367.1	1323.8	1231.0
60°	946.4	949.5	958.8	977.4	995.9	1017.6	1042.3	1060.9	1070.2	1048.5	989.7
62.5°	689.7	689.7	702.1	720.6	729.9	760.9	776.3	785.6	794.9	791.8	754.7
65°	482.5	488.7	494.9	504.2	513.4	532.0	541.3	559.8	566.0	569.1	541.3
67.5°	340.3	330.9	337.1	343.3	352.6	365.0	383.5	383.5	392.8	392.8	374.2
70°	216.5	216.5	219.6	228.9	235.1	238.2	244.4	250.5	259.8	256.7	256.7
72.5°	145.4	142.3	145.4	148.5	151.6	160.8	160.8	163.9	170.1	173.2	160.8
75°	74.2	77.3	83.5	80.4	89.7	83.5	86.6	95.9	92.8	86.6	86.6
77.5°	61.8	61.8	61.8	58.8	64.9	64.9	61.8	68.0	64.9	64.9	61.8
80°	43.3	46.4	43.3	40.2	43.3	40.2	40.2	40.2	40.2	40.2	37.1
82.5°	34.1	27.8	31.0	27.8	31.0	31.0	27.8	24.7	24.7	27.8	24.7
85°	24.7	18.5	21.6	21.6	18.5	18.5	18.5	18.5	18.5	15.4	15.4
87.5°	15.4	9.3	9.3	9.3	12.3	12.3	12.3	9.3	12.3	12.3	6.2
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°	5762.1	5762.1	5762.1	5762.1	5762.1	5762.1	5762.1	5762.1	5762.1	5762.1	5762.1
2.5°	5771.4	5768.3	5774.5	5771.4	5771.4	5768.3	5771.4	5768.3	5774.5	5762.1	5765.2
5°	5771.4	5765.2	5768.3	5771.4	5774.5	5768.3	5768.3	5768.3	5774.5	5768.3	5771.4
7.5°	5759.0	5755.9	5765.2	5771.4	5768.3	5765.2	5771.4	5768.3	5774.5	5771.4	5777.6
10°	5734.3	5737.4	5743.6	5752.8	5755.9	5759.0	5765.2	5765.2	5774.5	5762.1	5768.3
12.5°	5697.2	5709.5	5725.1	5731.2	5743.6	5743.6	5749.8	5752.8	5759.0	5755.9	5765.2
15°	5650.8	5666.2	5684.8	5700.3	5715.7	5725.1	5734.3	5737.4	5746.7	5737.4	5740.5
17.5°	5595.1	5613.7	5641.5	5660.0	5684.8	5694.1	5706.4	5712.6	5721.9	5715.7	5718.8
20°	5517.8	5539.5	5570.4	5598.2	5613.7	5635.3	5650.8	5660.0	5666.2	5660.0	5663.1
22.5°	5409.5	5440.5	5480.7	5502.3	5533.3	5551.8	5554.9	5576.6	5592.0	5576.6	5582.8
25°	5282.7	5313.7	5344.6	5391.0	5418.9	5440.5	5462.1	5465.2	5480.7	5477.6	5474.5
27.5°	5072.4	5112.7	5165.2	5202.3	5239.4	5273.5	5298.2	5304.4	5319.9	5313.7	5316.8
30°	4784.7	4828.1	4877.6	4936.3	4988.9	5022.9	5053.9	5075.5	5090.9	5081.7	5078.6
32.5°	4376.5	4419.8	4472.4	4531.1	4593.0	4642.5	4679.6	4707.5	4726.0	4719.8	4704.4
35°	3909.5	3921.8	3955.9	4002.3	4054.8	4107.4	4141.5	4172.3	4194.0	4200.2	4200.2
37.5°	3430.1	3389.9	3365.1	3365.1	3396.0	3417.7	3448.6	3467.2	3501.2	3513.6	3522.9
40°	2966.1	2873.3	2786.7	2721.8	2678.5	2675.4	2675.4	2684.6	2715.6	2755.8	2792.9
42.5°	2551.7	2403.2	2270.2	2149.6	2063.0	2013.5	1991.9	1995.0	2019.7	2056.8	2118.6
45°	2220.7	2035.2	1868.1	1722.8	1605.2	1527.9	1490.8	1487.7	1506.2	1549.5	1617.6
47.5°	1964.0	1766.0	1577.4	1410.4	1283.6	1200.0	1156.8	1144.4	1156.8	1196.9	1277.4
50°	1750.6	1546.5	1351.6	1178.4	1042.3	955.8	915.5	900.1	915.5	949.5	1029.9
52.5°	1552.6	1342.3	1159.9	992.8	847.5	773.2	729.9	720.6	729.9	770.1	835.1
55°	1323.8	1144.4	965.0	798.0	671.2	597.0	562.9	553.7	562.9	600.1	668.1
57.5°	1098.0	943.3	785.6	634.0	525.8	460.8	429.9	417.5	439.2	463.9	544.4
60°	887.6	764.0	630.9	498.0	408.3	349.5	324.7	321.6	327.8	358.8	414.4
62.5°	695.9	593.9	488.7	380.4	306.2	281.5	250.5	247.5	253.6	272.1	315.5
65°	501.1	436.1	355.7	278.3	219.6	185.6	173.2	176.3	182.5	194.9	235.1
67.5°	349.5	303.1	247.5	194.9	151.6	136.1	123.7	120.6	123.7	145.4	167.0
70°	235.1	207.2	167.0	148.5	105.2	83.5	86.6	77.3	89.7	89.7	108.2
72.5°	154.6	136.1	111.3	86.6	74.2	58.8	58.8	55.7	61.8	64.9	80.4
75°	80.4	61.8	61.8	43.3	31.0	15.4	27.8	24.7	21.6	24.7	31.0
77.5°	55.7	46.4	43.3	34.1	31.0	24.7	24.7	24.7	24.7	27.8	31.0
80°	34.1	34.1	24.7	21.6	18.5	15.4	18.5	18.5	18.5	18.5	21.6
82.5°	21.6	18.5	18.5	15.4	15.4	12.3	12.3	12.3	12.3	12.3	18.5
85°	18.5	12.3	12.3	9.3	12.3	21.6	9.3	12.3	12.3	12.3	9.3
87.5°	6.2	9.3	9.3	9.3	6.2	3.1	6.2	9.3	9.3	15.4	12.3
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°	5762.1	5762.1	5762.1	5762.1	5762.1	5762.1	5762.1	5762.1	5762.1	5762.1	5762.1
2.5°	5771.4	5774.5	5774.5	5771.4	5771.4	5765.2	5777.6	5768.3	5771.4	5783.8	5774.5
5°	5777.6	5780.7	5780.7	5777.6	5777.6	5777.6	5780.7	5780.7	5777.6	5774.5	5780.7
7.5°	5790.0	5786.9	5786.9	5780.7	5780.7	5774.5	5780.7	5771.4	5777.6	5771.4	5780.7
10°	5774.5	5777.6	5774.5	5771.4	5771.4	5768.3	5768.3	5759.0	5762.1	5752.8	5759.0
12.5°	5765.2	5762.1	5762.1	5755.9	5749.8	5743.6	5740.5	5731.2	5731.2	5709.5	5718.8
15°	5740.5	5743.6	5734.3	5721.9	5715.7	5700.3	5694.1	5681.7	5669.4	5653.9	5657.0
17.5°	5718.8	5709.5	5697.2	5684.8	5660.0	5647.7	5635.3	5616.8	5610.6	5592.0	5585.9
20°	5653.9	5647.7	5632.3	5610.6	5595.1	5567.3	5554.9	5536.4	5520.9	5502.3	5493.0
22.5°	5570.4	5564.2	5545.6	5524.0	5499.2	5486.9	5474.5	5440.5	5425.0	5406.4	5403.3
25°	5465.2	5455.9	5437.4	5412.6	5400.2	5366.3	5353.8	5329.1	5323.0	5304.4	5301.3
27.5°	5304.4	5292.0	5270.4	5239.4	5217.8	5196.1	5183.8	5165.2	5159.0	5140.4	5137.4
30°	5063.2	5047.6	5004.4	4992.0	4954.9	4933.2	4933.2	4908.5	4911.6	4899.2	4899.2
32.5°	4682.7	4658.0	4623.9	4599.2	4574.4	4562.1	4562.1	4552.8	4559.0	4559.0	4565.2
35°	4178.5	4144.6	4126.0	4110.5	4110.5	4122.9	4160.0	4169.3	4187.9	4203.3	4215.7
37.5°	3532.1	3529.1	3550.7	3569.3	3615.6	3668.2	3733.2	3788.9	3841.4	3878.6	3915.6
40°	2833.1	2910.5	2972.3	3058.9	3130.0	3232.1	3349.6	3445.5	3535.2	3600.2	3668.2
42.5°	2211.4	2310.4	2440.3	2567.1	2694.0	2833.1	2987.8	3120.8	3238.3	3328.0	3399.1
45°	1722.8	1858.8	2016.6	2177.4	2341.4	2514.6	2675.4	2811.5	2935.2	3028.0	3099.1
47.5°	1388.7	1537.2	1716.6	1892.9	2078.5	2260.9	2440.3	2557.9	2659.9	2734.1	2799.1
50°	1147.4	1305.2	1493.9	1694.9	1880.5	2063.0	2217.6	2332.1	2415.6	2480.5	2520.7
52.5°	958.8	1125.8	1326.9	1527.9	1713.5	1880.5	2019.7	2106.3	2174.3	2220.7	2257.8
55°	791.8	952.6	1141.3	1330.0	1512.4	1670.2	1784.6	1849.6	1902.1	1930.0	1951.6
57.5°	646.4	794.9	968.1	1141.3	1299.0	1429.0	1518.7	1583.6	1608.3	1630.0	1626.9
60°	507.3	646.4	804.2	952.6	1088.7	1193.8	1258.8	1295.9	1314.5	1323.8	1317.6
62.5°	399.0	525.8	646.4	776.3	875.3	965.0	1026.9	1026.9	1036.1	1039.2	1048.5
65°	296.9	392.8	498.0	593.9	674.2	733.0	767.1	776.3	788.7	785.6	779.4
67.5°	219.6	290.8	368.0	439.2	494.9	532.0	556.7	578.4	575.3	569.1	566.0
70°	151.6	198.0	266.0	309.3	349.5	386.6	392.8	395.9	399.0	402.1	395.9
72.5°	105.2	139.2	176.3	213.4	238.2	253.6	269.1	272.1	272.1	272.1	269.1
75°	52.6	71.1	105.2	120.6	142.3	148.5	160.8	160.8	170.1	157.7	154.6
77.5°	46.4	55.7	74.2	86.6	95.9	105.2	108.2	117.5	114.4	108.2	111.3
80°	27.8	34.1	46.4	52.6	64.9	68.0	71.1	74.2	71.1	74.2	74.2
82.5°	21.6	24.7	31.0	31.0	40.2	40.2	43.3	43.3	46.4	46.4	46.4
85°	12.3	21.6	18.5	37.1	24.7	24.7	31.0	37.1	31.0	31.0	37.1
87.5°	12.3	12.3	9.3	12.3	12.3	12.3	15.4	18.5	18.5	21.6	18.5
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: P249338

CATALOG NUMBER: LD8B100D010 ER8B100850 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	5762.1	5762.1	5762.1	5762.1
2.5°	5771.4	5777.6	5768.3	5765.2
5°	5780.7	5780.7	5774.5	5774.5
7.5°	5780.7	5780.7	5771.4	5765.2
10°	5755.9	5755.9	5746.7	5740.5
12.5°	5709.5	5709.5	5706.4	5697.2
15°	5650.8	5650.8	5638.4	5629.2
17.5°	5570.4	5576.6	5561.1	5561.1
20°	5483.8	5480.7	5468.3	5462.1
22.5°	5394.1	5387.9	5384.8	5366.3
25°	5298.2	5292.0	5282.7	5273.5
27.5°	5134.3	5131.2	5121.9	5109.6
30°	4883.7	4880.6	4868.3	4868.3
32.5°	4559.0	4555.9	4543.5	4546.6
35°	4221.8	4234.2	4228.0	4215.7
37.5°	3940.4	3949.7	3955.9	3949.7
40°	3705.3	3733.2	3736.3	3742.5
42.5°	3454.8	3491.9	3504.3	3510.5
45°	3154.8	3188.8	3216.7	3210.5
47.5°	2848.6	2873.3	2898.1	2879.5
50°	2554.8	2570.2	2579.5	2579.5
52.5°	2276.4	2276.4	2273.3	2276.4
55°	1957.8	1957.8	1945.5	1951.6
57.5°	1623.8	1630.0	1620.7	1605.2
60°	1314.5	1299.0	1292.8	1283.6
62.5°	1023.8	1023.8	1002.1	1029.9
65°	767.1	757.8	748.5	745.4
67.5°	556.7	553.7	544.4	541.3
70°	392.8	380.4	377.3	371.1
72.5°	262.9	262.9	256.7	256.7
75°	160.8	145.4	142.3	145.4
77.5°	111.3	108.2	108.2	105.2
80°	74.2	71.1	77.3	68.0
82.5°	46.4	49.5	46.4	49.5
85°	31.0	37.1	34.1	34.1
87.5°	18.5	18.5	18.5	18.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)