

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: P248541

Luminaire Tested: **LD8B200D010 ER8B200930 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248541
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: LD8B200D010 ER8B200930 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18236.4 lumens
Efficiency: N/A
Efficacy: 81.7 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

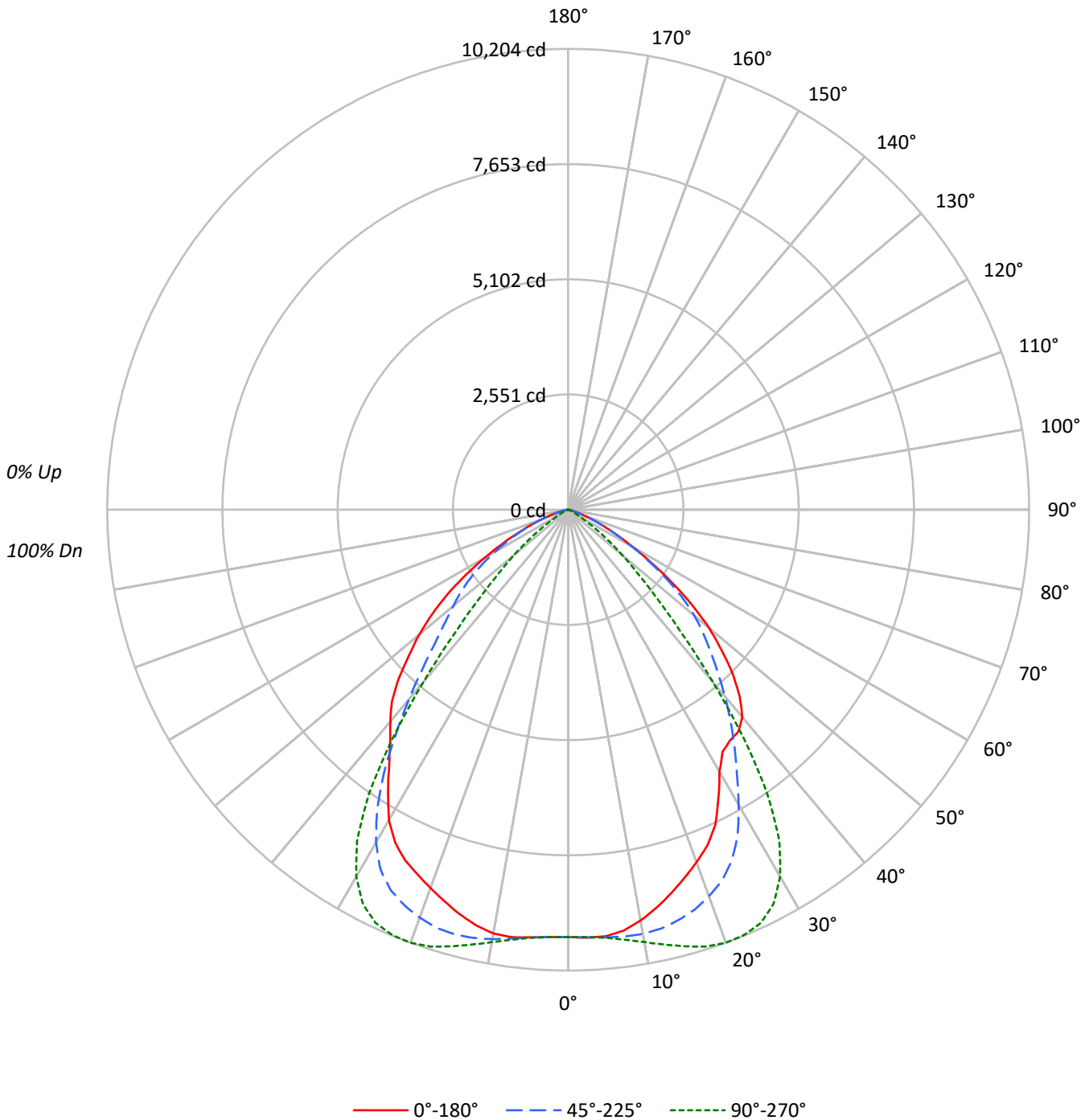
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	909.8	5.0
10°-20°	2695.2	14.8
20°-30°	4111.7	22.5
30°-40°	4290.7	23.5
40°-50°	3222.8	17.7
50°-60°	1982.9	10.9
60°-70°	807.0	4.4
70°-80°	190.1	1.0
80°-90°	26.2	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°	7716.7	42.3
0°-40°	12007.3	65.8
0°-60°	17213.1	94.4
0°-90°	18236.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18236.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9460	9460	9460	9460	9460	
5°	9480	9506	9516	9506	9506	897
15°	8793	9410	10008	9732	9275	2477
25°	7703	8567	10093	9295	8557	3502
35°	6242	6418	7688	7106	6905	3941
45°	5152	4459	2782	4153	5313	3931
55°	2782	2641	728	2641	3259	2501
65°	869	879	110	1180	1250	906
75°	151	151	20	266	276	181
85°	15	15	5	35	45	21
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°	9460.5	9460.5	9460.5	9460.5	9460.5	9460.5	9460.5	9460.5	9460.5	9460.5	9460.5
2.5°	9485.6	9470.5	9485.6	9485.6	9490.6	9480.5	9485.6	9490.6	9480.5	9480.5	9480.5
5°	9480.5	9470.5	9480.5	9475.5	9485.6	9485.6	9495.7	9495.7	9505.6	9505.6	9520.8
7.5°	9400.3	9380.2	9400.3	9415.3	9425.3	9445.4	9470.5	9490.6	9510.7	9530.9	9555.9
10°	9234.5	9234.5	9249.6	9279.6	9309.8	9344.9	9390.2	9440.4	9490.6	9535.8	9581.0
12.5°	9028.6	9013.5	9043.7	9083.8	9129.1	9184.4	9254.6	9330.0	9410.2	9500.6	9571.0
15°	8792.7	8777.5	8812.6	8852.9	8908.1	8988.5	9073.8	9174.3	9289.7	9410.2	9525.8
17.5°	8551.5	8546.5	8581.7	8637.0	8682.1	8767.5	8878.0	8998.5	9129.1	9289.7	9440.4
20°	8305.6	8300.6	8335.6	8380.9	8441.1	8521.5	8631.9	8772.5	8928.2	9109.0	9284.7
22.5°	8049.5	8054.5	8084.5	8134.8	8185.1	8270.3	8385.9	8526.6	8697.2	8893.0	9088.8
25°	7703.0	7677.8	7718.1	7768.3	7853.5	7923.8	8034.4	8185.1	8360.8	8566.7	8797.7
27.5°	7200.7	7195.7	7231.0	7276.1	7351.4	7436.8	7557.3	7713.0	7898.8	8124.7	8350.7
30°	6698.6	6708.6	6723.8	6769.0	6819.2	6904.6	7025.1	7155.7	7331.3	7547.2	7788.3
32.5°	6357.2	6357.2	6377.3	6407.4	6442.5	6487.8	6573.2	6668.5	6804.1	6954.8	7130.5
35°	6241.6	6221.7	6241.6	6246.7	6251.7	6261.8	6276.8	6307.0	6352.1	6417.5	6482.7
37.5°	6191.5	6176.4	6176.4	6156.4	6131.2	6101.2	6060.9	6015.7	5965.6	5900.2	5850.1
40°	5995.7	5985.6	5975.5	5955.5	5900.2	5840.0	5774.6	5669.2	5553.8	5393.0	5232.4
42.5°	5619.1	5609.0	5604.0	5563.7	5513.5	5443.2	5367.9	5257.5	5111.9	4905.9	4675.0
45°	5152.1	5131.9	5116.9	5081.8	5046.5	4986.3	4916.0	4815.6	4670.0	4459.1	4182.9
47.5°	4609.8	4599.7	4594.6	4579.6	4544.5	4509.2	4464.2	4383.8	4253.2	4052.3	3766.1
50°	4062.4	4042.3	4052.3	4047.4	4032.2	4007.2	3977.0	3921.8	3821.3	3640.6	3379.5
52.5°	3434.6	3434.6	3429.7	3444.7	3449.8	3444.7	3449.8	3389.6	3304.1	3168.5	2947.6
55°	2781.9	2781.9	2797.0	2817.1	2837.1	2842.2	2837.1	2812.0	2751.7	2641.3	2445.5
57.5°	2169.2	2159.3	2189.4	2219.5	2239.6	2259.6	2244.6	2224.5	2189.4	2099.0	1948.3
60°	1652.0	1652.0	1672.1	1692.3	1712.3	1732.4	1727.3	1722.3	1692.3	1632.0	1511.6
62.5°	1215.2	1220.2	1220.2	1235.3	1255.3	1275.5	1290.5	1275.5	1260.3	1220.2	1139.8
65°	868.7	863.6	868.7	883.8	898.9	918.9	929.0	923.9	908.9	878.8	818.6
67.5°	582.5	577.4	597.5	602.5	612.6	632.8	627.8	632.8	627.8	602.5	552.4
70°	381.6	371.5	381.6	376.5	391.7	396.7	406.7	411.7	406.7	391.7	376.5
72.5°	236.1	231.0	236.1	241.0	246.1	251.0	261.1	261.1	256.0	246.1	226.0
75°	150.7	135.5	140.6	130.6	140.6	140.6	150.7	155.7	150.7	150.7	140.6
77.5°	90.5	90.5	90.5	90.5	90.5	90.5	90.5	95.5	100.3	90.5	85.4
80°	45.2	45.2	50.2	50.2	50.2	55.3	50.2	50.2	50.2	55.3	40.1
82.5°	35.1	30.2	30.2	30.2	35.1	30.2	30.2	30.2	30.2	30.2	30.2
85°	15.1	20.1	15.1	10.1	15.1	15.1	20.1	15.1	15.1	15.1	20.1
87.5°	5.0	5.0	0.0	0.0	0.0	5.0	0.0	5.0	5.0	10.1	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°	9460.5	9460.5	9460.5	9460.5	9460.5	9460.5	9460.5	9460.5	9460.5	9460.5	9460.5
2.5°	9485.6	9475.5	9475.5	9470.5	9480.5	9470.5	9475.5	9470.5	9470.5	9480.5	9470.5
5°	9520.8	9525.8	9515.7	9510.7	9525.8	9525.8	9525.8	9515.7	9515.7	9520.8	9515.7
7.5°	9571.0	9581.0	9586.0	9591.1	9601.1	9606.2	9606.2	9601.1	9596.1	9611.1	9591.1
10°	9626.1	9641.3	9671.4	9686.4	9711.6	9711.6	9721.6	9721.6	9711.6	9721.6	9716.6
12.5°	9606.2	9696.4	9746.6	9781.8	9816.9	9847.1	9857.2	9862.2	9857.2	9877.4	9857.2
15°	9641.3	9716.6	9797.0	9857.2	9922.4	9957.5	9967.6	10007.8	10017.8	10022.9	9992.8
17.5°	9586.0	9721.6	9807.0	9897.3	9992.8	10058.1	10118.3	10143.5	10148.4	10158.4	10118.3
20°	9460.5	9611.1	9741.6	9872.3	9982.7	10083.1	10133.4	10203.7	10183.6	10223.7	10168.5
22.5°	9289.7	9460.5	9626.1	9797.0	9912.4	10033.0	10138.4	10188.5	10213.8	10213.8	10153.3
25°	9018.6	9219.4	9400.3	9575.9	9751.7	9897.3	10017.8	10093.1	10108.3	10103.2	10033.0
27.5°	8596.7	8812.6	9023.6	9224.5	9440.4	9611.1	9751.7	9842.0	9867.3	9867.3	9791.9
30°	8014.3	8245.3	8451.2	8692.1	8913.2	9104.0	9299.8	9380.2	9425.3	9425.3	9339.9
32.5°	7321.3	7517.1	7708.0	7944.0	8185.1	8400.9	8586.7	8697.2	8752.4	8747.4	8672.1
35°	6568.2	6663.4	6809.2	6984.8	7200.7	7401.6	7582.4	7687.9	7783.3	7778.3	7708.0
37.5°	5814.9	5789.7	5804.9	5870.1	6005.6	6146.3	6286.9	6387.3	6467.6	6502.9	6487.8
40°	5076.8	4946.2	4820.5	4775.5	4785.4	4835.7	4911.0	4986.3	5076.8	5122.0	5142.0
42.5°	4413.9	4193.0	3971.9	3806.4	3710.8	3680.7	3715.9	3740.9	3796.3	3861.5	3926.9
45°	3881.6	3585.4	3294.1	3038.0	2877.3	2781.9	2761.8	2781.9	2812.0	2877.3	2962.7
47.5°	3444.7	3098.2	2771.9	2485.6	2249.6	2124.2	2089.0	2078.9	2109.0	2169.2	2284.7
50°	3058.1	2711.6	2350.1	2018.6	1772.6	1632.0	1581.8	1561.7	1596.8	1642.0	1747.4
52.5°	2636.3	2294.8	1923.2	1601.8	1345.8	1200.1	1144.9	1114.7	1134.8	1195.1	1300.6
55°	2179.3	1862.9	1526.5	1195.1	949.0	813.5	748.2	728.1	748.2	813.5	918.9
57.5°	1722.3	1456.2	1175.0	863.6	642.7	507.1	441.8	421.8	477.1	502.2	612.6
60°	1345.8	1129.9	888.8	632.8	441.8	336.4	271.2	256.0	281.3	326.3	416.8
62.5°	1009.3	873.7	682.9	451.9	326.3	215.9	180.7	165.8	180.7	215.9	286.3
65°	733.1	627.8	477.1	331.4	220.9	160.8	120.5	110.4	125.6	150.7	211.0
67.5°	502.2	421.8	331.4	231.0	150.7	100.3	85.4	85.4	90.5	110.4	155.7
70°	326.3	276.2	211.0	150.7	100.3	75.3	65.2	55.3	65.2	80.4	105.4
72.5°	205.9	175.7	135.5	105.4	75.3	55.3	45.2	40.1	50.2	60.2	80.4
75°	125.6	95.5	70.3	55.3	40.1	40.1	40.1	20.1	25.1	40.1	50.2
77.5°	75.3	65.2	55.3	45.2	35.1	20.1	20.1	20.1	25.1	30.2	45.2
80°	40.1	35.1	25.1	25.1	20.1	15.1	20.1	15.1	10.1	25.1	30.2
82.5°	25.1	20.1	20.1	20.1	25.1	10.1	15.1	10.1	15.1	20.1	15.1
85°	15.1	15.1	15.1	10.1	25.1	10.1	10.1	5.0	5.0	10.1	10.1
87.5°	0.0	5.0	5.0	0.0	5.0	0.0	5.0	5.0	5.0	5.0	5.0
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°	9460.5	9460.5	9460.5	9460.5	9460.5	9460.5	9460.5	9460.5	9460.5	9460.5	9460.5
2.5°	9475.5	9470.5	9475.5	9470.5	9470.5	9470.5	9475.5	9475.5	9470.5	9470.5	9480.5
5°	9515.7	9515.7	9515.7	9510.7	9505.6	9505.6	9515.7	9515.7	9500.6	9515.7	9515.7
7.5°	9601.1	9586.0	9601.1	9581.0	9571.0	9575.9	9581.0	9571.0	9560.9	9565.9	9565.9
10°	9711.6	9696.4	9696.4	9681.4	9666.4	9656.3	9646.3	9621.1	9596.1	9591.1	9571.0
12.5°	9842.0	9816.9	9802.0	9771.8	9746.6	9711.6	9681.4	9641.3	9591.1	9555.9	9520.8
15°	9972.6	9932.5	9897.3	9847.1	9791.9	9731.6	9666.4	9601.1	9520.8	9450.5	9390.2
17.5°	10078.0	10022.9	9957.5	9877.4	9797.0	9706.5	9611.1	9515.7	9400.3	9309.8	9239.5
20°	10113.2	10033.0	9947.5	9842.0	9736.7	9611.1	9490.6	9365.1	9234.5	9139.1	9058.8
22.5°	10068.1	9972.6	9867.3	9756.7	9616.1	9480.5	9339.9	9194.3	9078.8	8948.3	8872.9
25°	9942.6	9827.0	9711.6	9581.0	9445.4	9294.8	9144.1	8993.6	8852.9	8782.6	8687.2
27.5°	9686.4	9560.9	9435.3	9299.8	9144.1	8993.6	8837.9	8692.1	8571.7	8476.2	8421.1
30°	9234.5	9088.8	8943.2	8797.7	8662.1	8506.4	8360.8	8240.2	8119.7	8044.4	7989.3
32.5°	8541.5	8411.0	8265.4	8124.7	7999.2	7868.6	7748.1	7642.8	7557.3	7507.1	7466.9
35°	7607.6	7477.0	7366.5	7266.1	7160.6	7105.5	7030.1	6969.8	6934.6	6914.6	6909.6
37.5°	6432.5	6357.2	6322.0	6302.0	6281.9	6266.8	6276.8	6302.0	6322.0	6357.2	6397.3
40°	5177.1	5242.4	5262.5	5332.8	5398.1	5483.5	5578.9	5689.4	5779.7	5895.2	5975.5
42.5°	4032.2	4152.7	4293.3	4444.0	4604.7	4760.3	4951.2	5126.9	5287.6	5433.2	5558.8
45°	3098.2	3284.0	3494.9	3710.8	3926.9	4152.7	4383.8	4599.7	4790.5	4946.2	5076.8
47.5°	2415.3	2621.2	2892.4	3158.5	3419.6	3685.7	3941.9	4167.8	4328.5	4479.2	4594.6
50°	1913.2	2149.2	2445.5	2751.7	3038.0	3319.2	3590.3	3801.3	3962.0	4082.5	4167.8
52.5°	1481.3	1762.5	2063.8	2385.3	2691.5	2997.9	3248.9	3444.7	3575.3	3680.7	3745.9
55°	1104.7	1381.0	1702.4	2033.7	2345.0	2641.3	2877.3	3048.1	3163.6	3223.8	3259.0
57.5°	798.4	1049.5	1370.9	1702.4	1983.5	2264.6	2455.6	2611.1	2676.4	2711.6	2726.7
60°	582.5	813.5	1099.7	1385.9	1652.0	1878.0	2043.8	2149.2	2199.4	2219.5	2214.4
62.5°	426.9	627.8	873.7	1114.7	1330.6	1516.4	1647.1	1717.4	1742.5	1752.5	1737.4
65°	326.3	482.0	693.0	878.8	1044.5	1180.0	1275.5	1320.7	1335.7	1330.6	1320.7
67.5°	241.0	361.6	517.2	657.8	778.3	883.8	934.0	974.3	984.1	969.2	954.1
70°	170.7	266.1	376.5	472.1	562.4	622.7	677.9	682.9	682.9	677.9	667.9
72.5°	120.5	185.7	256.0	321.4	376.5	421.8	441.8	456.9	451.9	446.8	437.0
75°	80.4	115.5	185.7	200.9	251.0	266.1	286.3	286.3	291.2	276.2	276.2
77.5°	50.2	80.4	110.4	130.6	150.7	170.7	180.7	180.7	185.7	180.7	180.7
80°	30.2	50.2	60.2	90.5	90.5	105.4	110.4	115.5	105.4	120.5	105.4
82.5°	20.1	30.2	45.2	45.2	55.3	65.2	65.2	70.3	70.3	65.2	65.2
85°	15.1	20.1	25.1	30.2	30.2	35.1	30.2	30.2	35.1	40.1	35.1
87.5°	5.0	10.1	5.0	10.1	10.1	20.1	15.1	15.1	15.1	20.1	20.1
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: P248541

CATALOG NUMBER: LD8B200D010 ER8B200930 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	9460.5	9460.5	9460.5	9460.5
2.5°	9470.5	9475.5	9470.5	9470.5
5°	9515.7	9510.7	9515.7	9505.6
7.5°	9550.8	9550.8	9545.8	9545.8
10°	9550.8	9530.9	9530.9	9530.9
12.5°	9475.5	9450.5	9435.3	9425.3
15°	9344.9	9299.8	9279.6	9274.6
17.5°	9174.3	9134.1	9109.0	9093.9
20°	8978.4	8938.2	8908.1	8913.2
22.5°	8807.6	8762.5	8742.3	8732.3
25°	8637.0	8581.7	8566.7	8556.6
27.5°	8360.8	8330.6	8315.6	8300.6
30°	7938.9	7923.8	7898.8	7933.9
32.5°	7451.8	7426.7	7406.7	7421.8
35°	6914.6	6899.5	6914.6	6904.6
37.5°	6422.5	6437.6	6457.6	6467.6
40°	6035.8	6091.1	6111.1	6121.1
42.5°	5649.2	5714.4	5754.7	5779.7
45°	5172.1	5237.3	5282.6	5312.8
47.5°	4680.1	4735.3	4780.4	4775.5
50°	4233.1	4263.3	4283.2	4303.4
52.5°	3781.1	3781.1	3786.2	3786.2
55°	3269.1	3259.0	3253.9	3259.0
57.5°	2706.5	2696.6	2691.5	2676.4
60°	2194.4	2164.3	2144.1	2144.1
62.5°	1717.4	1682.2	1667.2	1662.1
65°	1290.5	1285.5	1255.3	1250.3
67.5°	934.0	913.8	893.9	898.9
70°	657.8	627.8	627.8	617.7
72.5°	426.9	411.7	406.7	406.7
75°	266.1	266.1	256.0	276.2
77.5°	175.7	175.7	170.7	175.7
80°	105.4	105.4	105.4	100.3
82.5°	65.2	70.3	65.2	65.2
85°	35.1	40.1	30.2	45.2
87.5°	20.1	25.1	20.1	25.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)