

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: P248433

Luminaire Tested: **LD8B200D010 ER8B200930 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248433
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 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: 18753.2 lumens
Efficiency: N/A
Efficacy: 84.0 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

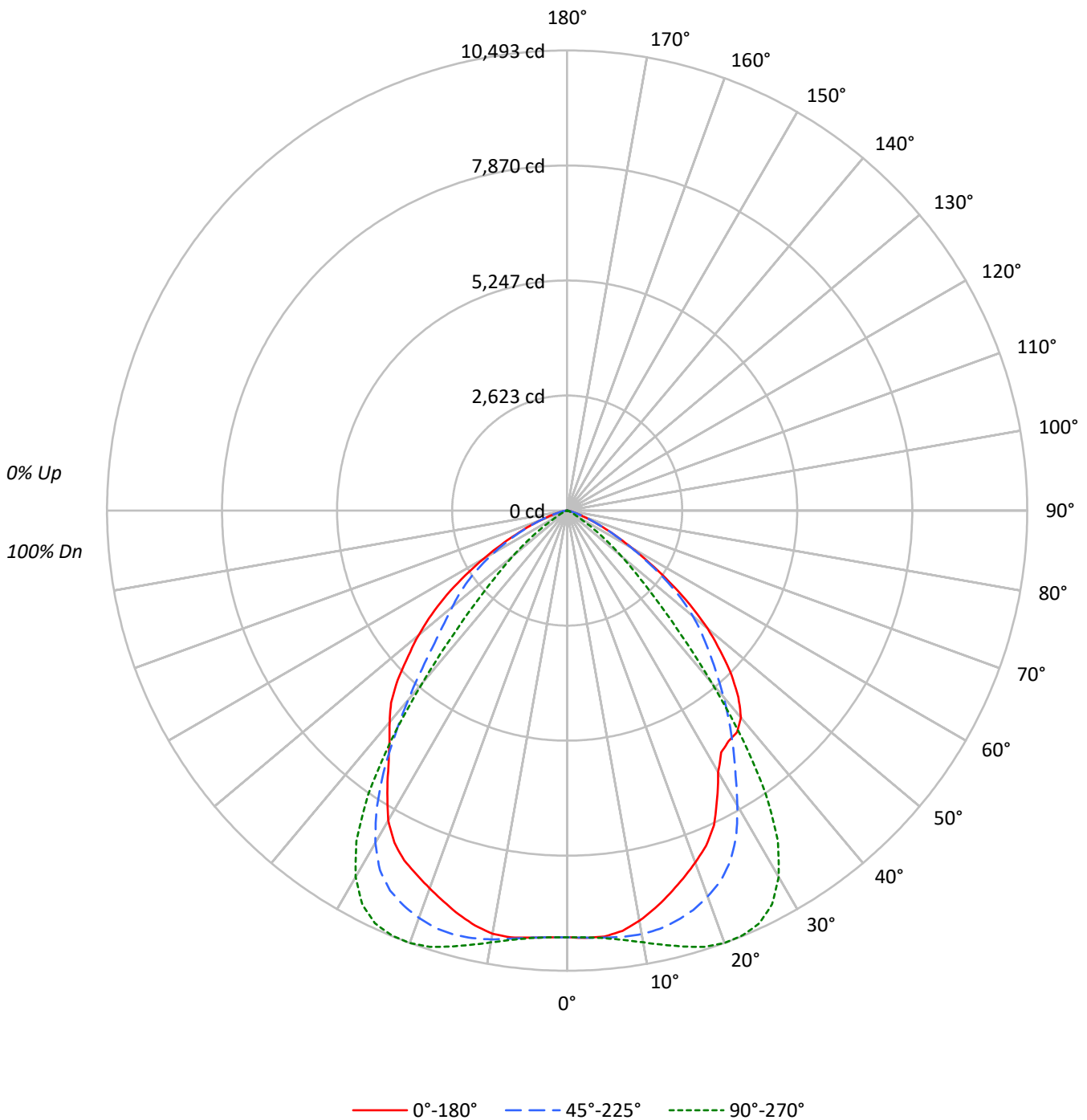
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	935.6	5.0
10°-20°	2771.5	14.8
20°-30°	4228.2	22.5
30°-40°	4412.2	23.5
40°-50°	3314.2	17.7
50°-60°	2039.1	10.9
60°-70°	829.9	4.4
70°-80°	195.5	1.0
80°-90°	26.9	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°	7935.4	42.3
0°-40°	12347.6	65.8
0°-60°	17700.9	94.4
0°-90°	18753.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18753.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9728	9728	9728	9728	9728	
5°	9749	9775	9785	9775	9775	922
15°	9042	9677	10291	10007	9538	2547
25°	7921	8810	10379	9558	8799	3601
35°	6418	6599	7906	7307	7100	4053
45°	5298	4586	2861	4270	5463	4042
55°	2861	2716	749	2716	3351	2571
65°	893	904	114	1214	1286	932
75°	155	155	21	274	284	187
85°	16	16	5	36	46	22
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°	9728.5	9728.5	9728.5	9728.5	9728.5	9728.5	9728.5	9728.5	9728.5	9728.5	9728.5
2.5°	9754.4	9738.9	9754.4	9754.4	9759.5	9749.2	9754.4	9759.5	9749.2	9749.2	9749.2
5°	9749.2	9738.9	9749.2	9744.1	9754.4	9754.4	9764.8	9764.8	9775.0	9775.0	9790.6
7.5°	9666.6	9646.0	9666.6	9682.1	9692.4	9713.1	9738.9	9759.5	9780.2	9800.9	9826.7
10°	9496.1	9496.1	9511.7	9542.6	9573.6	9609.8	9656.2	9707.9	9759.5	9805.9	9852.5
12.5°	9284.5	9269.0	9299.9	9341.3	9387.7	9444.6	9516.8	9594.3	9676.9	9769.9	9842.3
15°	9041.8	9026.3	9062.4	9103.8	9160.6	9243.2	9331.0	9434.2	9553.0	9676.9	9795.7
17.5°	8793.9	8788.8	8824.8	8881.7	8928.2	9015.9	9129.6	9253.4	9387.7	9553.0	9707.9
20°	8540.9	8535.7	8572.0	8618.4	8680.4	8763.0	8876.5	9021.0	9181.2	9367.2	9547.8
22.5°	8277.5	8282.7	8313.7	8365.4	8417.0	8504.7	8623.4	8768.1	8943.7	9145.0	9346.4
25°	7921.2	7895.4	7936.8	7988.5	8076.1	8148.4	8262.1	8417.0	8597.7	8809.5	9046.9
27.5°	7404.8	7399.6	7435.9	7482.2	7559.7	7647.6	7771.4	7931.5	8122.7	8354.9	8587.3
30°	6888.4	6898.7	6914.3	6960.8	7012.4	7100.2	7224.2	7358.5	7539.2	7761.1	8009.0
32.5°	6537.3	6537.3	6558.1	6589.0	6625.1	6671.6	6759.4	6857.5	6996.9	7151.9	7332.6
35°	6418.5	6397.9	6418.5	6423.7	6428.9	6439.2	6454.7	6485.8	6532.2	6599.3	6666.5
37.5°	6366.9	6351.5	6351.5	6330.8	6305.0	6274.0	6232.6	6186.1	6134.7	6067.4	6015.8
40°	6165.6	6155.2	6144.9	6124.2	6067.4	6005.5	5938.3	5829.9	5711.2	5545.8	5380.7
42.5°	5778.3	5768.0	5762.8	5721.5	5669.8	5597.5	5520.0	5406.5	5256.7	5044.9	4807.4
45°	5298.1	5277.3	5262.0	5225.8	5189.6	5127.7	5055.4	4952.0	4802.3	4585.5	4301.4
47.5°	4740.4	4730.1	4724.8	4709.4	4673.2	4637.0	4590.6	4508.0	4373.7	4167.1	3872.8
50°	4177.5	4156.9	4167.1	4162.0	4146.6	4120.8	4089.6	4032.9	3929.6	3743.7	3475.2
52.5°	3531.9	3531.9	3526.9	3542.4	3547.5	3542.4	3547.5	3485.6	3397.8	3258.3	3031.1
55°	2860.7	2860.7	2876.3	2896.9	2917.5	2922.7	2917.5	2891.7	2829.7	2716.2	2514.7
57.5°	2230.7	2220.5	2251.4	2282.4	2303.1	2323.7	2308.1	2287.5	2251.4	2158.4	2003.6
60°	1698.9	1698.9	1719.5	1740.2	1760.8	1781.5	1776.3	1771.2	1740.2	1678.1	1554.4
62.5°	1249.6	1254.7	1254.7	1270.3	1290.9	1311.7	1327.0	1311.7	1296.1	1254.7	1172.1
65°	893.3	888.1	893.3	908.8	924.4	945.0	955.3	950.2	934.6	903.6	841.8
67.5°	599.1	593.8	614.4	619.6	630.0	650.7	645.5	650.7	645.5	619.6	568.0
70°	392.5	382.0	392.5	387.3	402.8	407.9	418.2	423.4	418.2	402.8	387.3
72.5°	242.7	237.5	242.7	247.9	253.1	258.2	268.5	268.5	263.3	253.1	232.4
75°	154.9	139.3	144.5	134.3	144.5	144.5	154.9	160.1	154.9	154.9	144.5
77.5°	93.0	93.0	93.0	93.0	93.0	93.0	93.0	98.2	103.2	93.0	87.8
80°	46.5	46.5	51.7	51.7	51.7	56.8	51.7	51.7	51.7	56.8	41.4
82.5°	36.1	30.9	30.9	30.9	36.1	30.9	30.9	30.9	30.9	30.9	30.9
85°	15.6	20.6	15.6	10.3	15.6	15.6	20.6	15.6	15.6	15.6	20.6
87.5°	5.2	5.2	0.0	0.0	0.0	5.2	0.0	5.2	5.2	10.3	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°	9728.5	9728.5	9728.5	9728.5	9728.5	9728.5	9728.5	9728.5	9728.5	9728.5	9728.5
2.5°	9754.4	9744.1	9744.1	9738.9	9749.2	9738.9	9744.1	9738.9	9738.9	9749.2	9738.9
5°	9790.6	9795.7	9785.3	9780.2	9795.7	9795.7	9795.7	9785.3	9785.3	9790.6	9785.3
7.5°	9842.3	9852.5	9857.6	9862.8	9873.2	9878.4	9878.4	9873.2	9867.9	9883.5	9862.8
10°	9899.0	9914.5	9945.4	9961.0	9986.8	9986.8	9997.1	9997.1	9986.8	9997.1	9991.9
12.5°	9878.4	9971.2	10022.9	10059.1	10095.2	10126.1	10136.5	10141.7	10136.5	10157.2	10136.5
15°	9914.5	9991.9	10074.5	10136.5	10203.6	10239.7	10250.1	10291.3	10301.8	10306.9	10276.0
17.5°	9857.6	9997.1	10084.9	10177.8	10276.0	10343.0	10405.0	10430.9	10436.1	10446.3	10405.0
20°	9728.5	9883.5	10017.7	10152.0	10265.6	10368.8	10420.5	10492.8	10472.2	10513.5	10456.7
22.5°	9553.0	9728.5	9899.0	10074.5	10193.4	10317.2	10425.7	10477.2	10503.1	10503.1	10441.1
25°	9274.1	9480.7	9666.6	9847.3	10028.1	10177.8	10301.8	10379.2	10394.7	10389.5	10317.2
27.5°	8840.4	9062.4	9279.3	9485.9	9707.9	9883.5	10028.1	10120.9	10146.8	10146.8	10069.4
30°	8241.4	8478.9	8690.7	8938.4	9165.7	9361.9	9563.4	9646.0	9692.4	9692.4	9604.7
32.5°	7528.7	7730.2	7926.4	8169.1	8417.0	8639.0	8830.0	8943.7	9000.5	8995.4	8917.9
35°	6754.2	6852.3	7002.1	7182.8	7404.8	7611.4	7797.2	7905.7	8003.8	7998.7	7926.4
37.5°	5979.6	5953.9	5969.3	6036.5	6175.8	6320.5	6465.0	6568.4	6650.9	6687.1	6671.6
40°	5220.6	5086.3	4957.2	4910.8	4921.1	4972.8	5050.2	5127.7	5220.6	5267.1	5287.8
42.5°	4538.9	4311.8	4084.5	3914.2	3816.0	3785.1	3821.2	3846.9	3903.8	3970.9	4038.1
45°	3991.7	3687.0	3387.4	3124.1	2958.9	2860.7	2840.1	2860.7	2891.7	2958.9	3046.7
47.5°	3542.4	3186.0	2850.5	2556.0	2313.3	2184.3	2148.2	2137.9	2168.8	2230.7	2349.5
50°	3144.7	2788.4	2416.7	2075.8	1822.9	1678.1	1626.6	1605.9	1642.0	1688.6	1797.0
52.5°	2710.9	2359.8	1977.8	1647.2	1383.9	1234.2	1177.3	1146.3	1167.0	1229.0	1337.4
55°	2241.1	1915.7	1569.7	1229.0	975.9	836.6	769.3	748.7	769.3	836.6	945.0
57.5°	1771.2	1497.5	1208.3	888.1	660.9	521.6	454.3	433.7	490.7	516.3	630.0
60°	1383.9	1161.9	914.1	650.7	454.3	345.9	278.9	263.3	289.2	335.6	428.6
62.5°	1037.9	898.5	702.2	464.8	335.6	222.0	185.9	170.4	185.9	222.0	294.4
65°	753.9	645.5	490.7	340.8	227.2	165.2	124.0	113.6	129.1	154.9	216.9
67.5°	516.3	433.7	340.8	237.5	154.9	103.2	87.8	87.8	93.0	113.6	160.1
70°	335.6	284.1	216.9	154.9	103.2	77.5	67.1	56.8	67.1	82.6	108.4
72.5°	211.8	180.7	139.3	108.4	77.5	56.8	46.5	41.4	51.7	61.9	82.6
75°	129.1	98.2	72.3	56.8	41.4	41.4	41.4	20.6	25.8	41.4	51.7
77.5°	77.5	67.1	56.8	46.5	36.1	20.6	20.6	20.6	25.8	30.9	46.5
80°	41.4	36.1	25.8	25.8	20.6	15.6	20.6	15.6	10.3	25.8	30.9
82.5°	25.8	20.6	20.6	20.6	25.8	10.3	15.6	10.3	15.6	20.6	15.6
85°	15.6	15.6	15.6	10.3	25.8	10.3	10.3	5.2	5.2	10.3	10.3
87.5°	0.0	5.2	5.2	0.0	5.2	0.0	5.2	5.2	5.2	5.2	5.2
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	9728.5	9728.5	9728.5	9728.5	9728.5	9728.5	9728.5	9728.5	9728.5	9728.5	9728.5
2.5°	9744.1	9738.9	9744.1	9738.9	9738.9	9738.9	9744.1	9744.1	9738.9	9738.9	9749.2
5°	9785.3	9785.3	9785.3	9780.2	9775.0	9775.0	9785.3	9785.3	9769.9	9785.3	9785.3
7.5°	9873.2	9857.6	9873.2	9852.5	9842.3	9847.3	9852.5	9842.3	9831.8	9837.0	9837.0
10°	9986.8	9971.2	9971.2	9955.8	9940.2	9929.9	9919.6	9893.7	9867.9	9862.8	9842.3
12.5°	10120.9	10095.2	10079.7	10048.6	10022.9	9986.8	9955.8	9914.5	9862.8	9826.7	9790.6
15°	10255.2	10214.0	10177.8	10126.1	10069.4	10007.4	9940.2	9873.2	9790.6	9718.3	9656.2
17.5°	10363.6	10306.9	10239.7	10157.2	10074.5	9981.6	9883.5	9785.3	9666.6	9573.6	9501.4
20°	10399.7	10317.2	10229.5	10120.9	10012.5	9883.5	9759.5	9630.4	9496.1	9398.1	9315.5
22.5°	10353.4	10255.2	10146.8	10033.3	9888.6	9749.2	9604.7	9454.9	9336.0	9201.8	9124.4
25°	10224.3	10105.5	9986.8	9852.5	9713.1	9558.2	9403.3	9248.4	9103.8	9031.4	8933.4
27.5°	9961.0	9831.8	9702.7	9563.4	9403.3	9248.4	9088.3	8938.4	8814.6	8716.4	8659.7
30°	9496.1	9346.4	9196.7	9046.9	8907.5	8747.4	8597.7	8473.8	8349.8	8272.3	8215.6
32.5°	8783.5	8649.3	8499.6	8354.9	8226.0	8091.6	7967.7	7859.3	7771.4	7719.8	7678.5
35°	7823.1	7688.8	7575.3	7472.0	7363.5	7306.8	7229.3	7167.2	7131.1	7110.5	7105.3
37.5°	6614.8	6537.3	6501.1	6480.6	6459.9	6444.4	6454.7	6480.6	6501.1	6537.3	6578.6
40°	5323.9	5390.9	5411.6	5483.9	5551.0	5638.9	5737.1	5850.6	5943.4	6062.3	6144.9
42.5°	4146.6	4270.4	4415.1	4569.9	4735.2	4895.3	5091.5	5272.2	5437.4	5587.2	5716.3
45°	3186.0	3377.0	3594.0	3816.0	4038.1	4270.4	4508.0	4730.1	4926.2	5086.3	5220.6
47.5°	2483.8	2695.6	2974.3	3248.1	3516.6	3790.2	4053.5	4285.9	4451.2	4606.1	4724.8
50°	1967.4	2210.1	2514.7	2829.7	3124.1	3413.2	3692.0	3909.0	4074.3	4198.1	4285.9
52.5°	1523.2	1812.4	2122.3	2452.9	2767.7	3082.8	3340.9	3542.4	3676.7	3785.1	3852.1
55°	1136.0	1420.1	1750.6	2091.3	2411.5	2716.2	2958.9	3134.4	3253.3	3315.1	3351.2
57.5°	821.0	1079.3	1409.7	1750.6	2039.7	2328.9	2525.1	2685.1	2752.3	2788.4	2804.0
60°	599.1	836.6	1130.9	1425.2	1698.9	1931.3	2101.7	2210.1	2261.7	2282.4	2277.2
62.5°	439.0	645.5	898.5	1146.3	1368.4	1559.4	1693.7	1766.0	1791.9	1802.1	1786.6
65°	335.6	495.7	712.6	903.6	1074.1	1213.5	1311.7	1358.1	1373.6	1368.4	1358.1
67.5°	247.9	371.8	531.9	676.5	800.4	908.8	960.5	1001.8	1012.0	996.7	981.1
70°	175.7	273.6	387.3	485.4	578.3	640.3	697.0	702.2	702.2	697.0	686.8
72.5°	124.0	191.0	263.3	330.6	387.3	433.7	454.3	469.9	464.8	459.5	449.3
75°	82.6	118.7	191.0	206.6	258.2	273.6	294.4	294.4	299.4	284.1	284.1
77.5°	51.7	82.6	113.6	134.3	154.9	175.7	185.9	185.9	191.0	185.9	185.9
80°	30.9	51.7	61.9	93.0	93.0	108.4	113.6	118.7	108.4	124.0	108.4
82.5°	20.6	30.9	46.5	46.5	56.8	67.1	67.1	72.3	72.3	67.1	67.1
85°	15.6	20.6	25.8	30.9	30.9	36.1	30.9	30.9	36.1	41.4	36.1
87.5°	5.2	10.3	5.2	10.3	10.3	20.6	15.6	15.6	15.6	20.6	20.6
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: P248433

CATALOG NUMBER: LD8B200D010 ER8B200930 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	9728.5	9728.5	9728.5	9728.5
2.5°	9738.9	9744.1	9738.9	9738.9
5°	9785.3	9780.2	9785.3	9775.0
7.5°	9821.5	9821.5	9816.3	9816.3
10°	9821.5	9800.9	9800.9	9800.9
12.5°	9744.1	9718.3	9702.7	9692.4
15°	9609.8	9563.4	9542.6	9537.5
17.5°	9434.2	9393.0	9367.2	9351.6
20°	9232.8	9191.5	9160.6	9165.7
22.5°	9057.2	9010.8	8990.1	8979.8
25°	8881.7	8824.8	8809.5	8799.1
27.5°	8597.7	8566.7	8551.2	8535.7
30°	8163.9	8148.4	8122.7	8158.8
32.5°	7663.0	7637.1	7616.5	7632.1
35°	7110.5	7095.0	7110.5	7100.2
37.5°	6604.5	6620.0	6640.7	6650.9
40°	6206.9	6263.6	6284.3	6294.6
42.5°	5809.2	5876.4	5917.6	5943.4
45°	5318.7	5385.7	5432.3	5463.3
47.5°	4812.7	4869.5	4915.9	4910.8
50°	4353.1	4384.0	4404.6	4425.4
52.5°	3888.3	3888.3	3893.5	3893.5
55°	3361.7	3351.2	3346.1	3351.2
57.5°	2783.2	2773.0	2767.7	2752.3
60°	2256.6	2225.6	2204.9	2204.9
62.5°	1766.0	1729.8	1714.5	1709.3
65°	1327.0	1321.9	1290.9	1285.7
67.5°	960.5	939.7	919.2	924.4
70°	676.5	645.5	645.5	635.2
72.5°	439.0	423.4	418.2	418.2
75°	273.6	273.6	263.3	284.1
77.5°	180.7	180.7	175.7	180.7
80°	108.4	108.4	108.4	103.2
82.5°	67.1	72.3	67.1	67.1
85°	36.1	41.4	30.9	46.5
87.5°	20.6	25.8	20.6	25.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)