

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: P248361

Luminaire Tested: **LD8B200D010 ER8B200840 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248361
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 ER8B200840 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 4000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22561.0 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

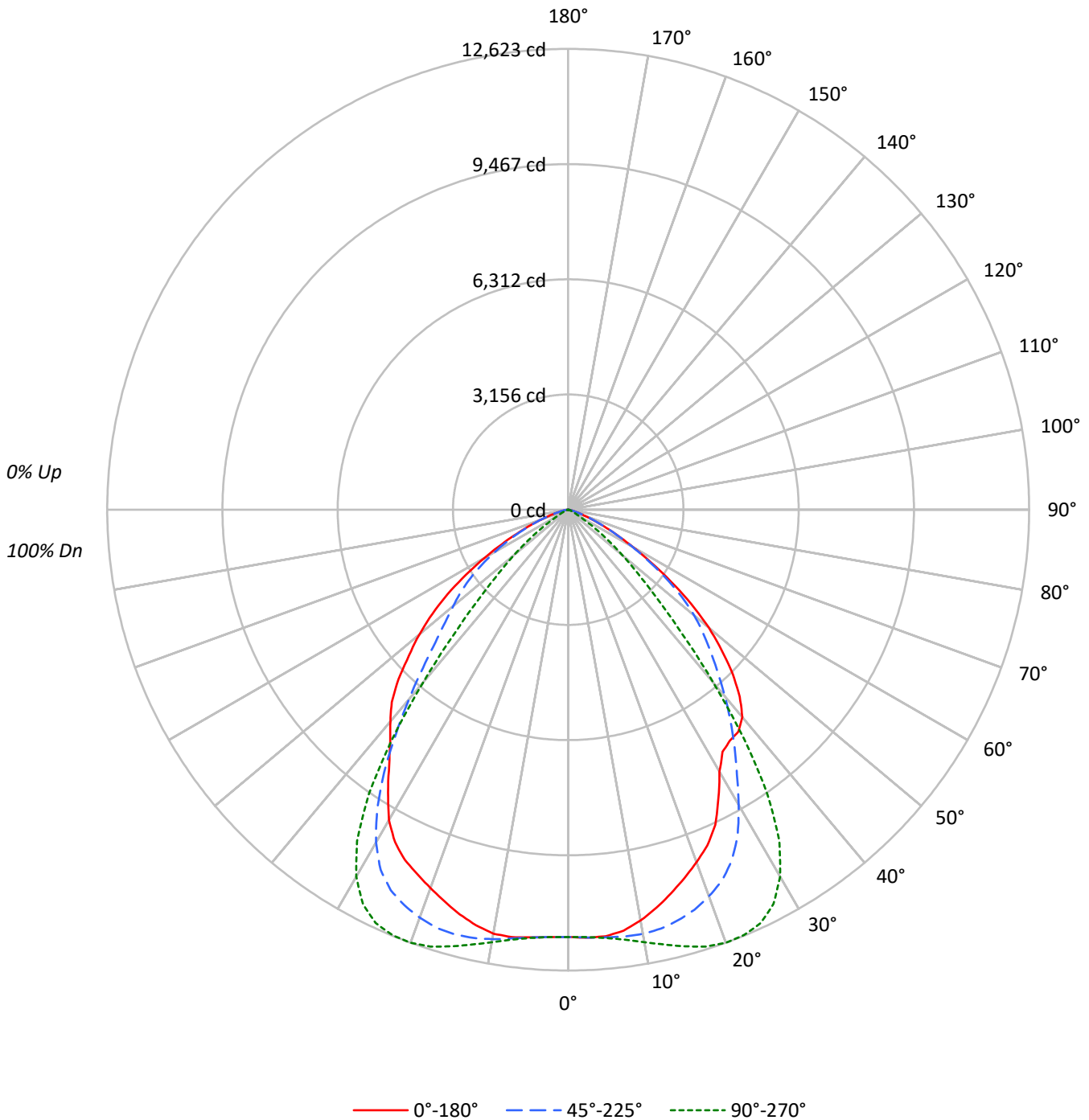
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	360905	360905	360905
5°	363054	364401	364014
10°	357718	376590	369197
15°	347261	395252	366297
20°	337184	414238	361848
25°	324236	424849	360169
30°	295076	413202	349494
35°	290681	358034	321553
40°	298584	248319	304831
45°	277956	150081	286625
50°	241097	92683	255402
55°	185020	48428	216756
60°	126047	19538	163593
65°	78415	9974	112862
70°	42564	6167	68891
75°	22208	2955	40711
80°	9927	3321	22055
85°	6616	2194	19778



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1125.5	5.0
10°-20°	3334.3	14.8
20°-30°	5086.8	22.5
30°-40°	5308.1	23.5
40°-50°	3987.1	17.7
50°-60°	2453.2	10.9
60°-70°	998.4	4.4
70°-80°	235.2	1.0
80°-90°	32.4	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°	9546.6	42.3
0°-40°	14854.8	65.8
0°-60°	21295.0	94.4
0°-90°	22561.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22561.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11704	11704	11704	11704	11704	
5°	11729	11760	11772	11760	11760	###
15°	10878	11642	12381	12039	11474	3064
25°	9530	10598	12487	11499	10586	4332
35°	7722	7939	9511	8790	8542	4876
45°	6374	5516	3442	5138	6573	4863
55°	3442	3268	901	3268	4032	3094
65°	1075	1087	137	1460	1547	1121
75°	186	186	25	329	342	224
85°	19	19	6	44	56	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°	11703.9	11703.9	11703.9	11703.9	11703.9	11703.9	11703.9	11703.9	11703.9	11703.9	11703.9
2.5°	11735.0	11716.3	11735.0	11735.0	11741.2	11728.8	11735.0	11741.2	11728.8	11728.8	11728.8
5°	11728.8	11716.3	11728.8	11722.5	11735.0	11735.0	11747.5	11747.5	11759.8	11759.8	11778.5
7.5°	11629.4	11604.6	11629.4	11648.1	11660.4	11685.3	11716.3	11741.2	11766.0	11790.9	11822.0
10°	11424.3	11424.3	11443.0	11480.3	11517.5	11561.0	11616.9	11679.1	11741.2	11797.0	11853.0
12.5°	11169.7	11151.0	11188.3	11238.0	11293.9	11362.3	11449.2	11542.4	11641.8	11753.6	11840.6
15°	10877.7	10859.0	10902.5	10952.2	11020.6	11120.0	11225.6	11349.8	11492.7	11641.8	11784.7
17.5°	10579.5	10573.2	10616.7	10685.1	10741.1	10846.6	10983.3	11132.3	11293.9	11492.7	11679.1
20°	10275.2	10268.9	10312.4	10368.3	10442.8	10542.2	10678.9	10852.8	11045.4	11269.1	11486.5
22.5°	9958.2	9964.5	10001.7	10063.9	10126.0	10231.5	10374.4	10548.5	10759.6	11001.9	11244.2
25°	9529.6	9498.6	9548.3	9610.4	9715.9	9802.9	9939.7	10126.0	10343.4	10598.2	10883.9
27.5°	8908.3	8902.1	8945.7	9001.5	9094.7	9200.3	9349.5	9542.0	9771.9	10051.4	10331.0
30°	8287.1	8299.6	8318.3	8374.2	8436.2	8541.9	8691.0	8852.6	9069.9	9337.0	9635.2
32.5°	7864.7	7864.7	7889.6	7926.9	7970.3	8026.3	8131.9	8249.9	8417.7	8604.0	8821.4
35°	7721.8	7697.0	7721.8	7728.0	7734.3	7746.7	7765.3	7802.7	7858.5	7939.3	8020.0
37.5°	7659.8	7641.1	7641.1	7616.3	7585.2	7547.9	7498.2	7442.3	7380.2	7299.4	7237.4
40°	7417.5	7405.0	7392.6	7367.8	7299.4	7224.9	7144.0	7013.6	6870.7	6671.9	6473.2
42.5°	6951.6	6939.1	6932.9	6883.2	6821.0	6734.1	6640.9	6504.2	6324.1	6069.4	5783.6
45°	6373.8	6348.9	6330.4	6286.9	6243.3	6168.8	6081.8	5957.5	5777.4	5516.5	5174.8
47.5°	5702.9	5690.4	5684.2	5665.6	5622.2	5578.5	5522.8	5423.3	5261.8	5013.2	4659.2
50°	5025.7	5000.9	5013.2	5007.2	4988.5	4957.5	4920.1	4851.8	4727.5	4503.9	4180.9
52.5°	4249.1	4249.1	4243.0	4261.6	4267.8	4261.6	4267.8	4193.3	4087.7	3919.9	3646.6
55°	3441.5	3441.5	3460.2	3485.1	3509.9	3516.2	3509.9	3478.9	3404.3	3267.6	3025.3
57.5°	2683.6	2671.3	2708.6	2745.8	2770.7	2795.5	2776.8	2752.0	2708.6	2596.7	2410.3
60°	2043.8	2043.8	2068.6	2093.5	2118.3	2143.3	2137.0	2130.8	2093.5	2018.9	1869.9
62.5°	1503.3	1509.6	1509.6	1528.2	1553.0	1578.0	1596.5	1578.0	1559.3	1509.6	1410.1
65°	1074.7	1068.4	1074.7	1093.4	1112.1	1136.8	1149.3	1143.1	1124.4	1087.1	1012.6
67.5°	720.6	714.4	739.2	745.4	757.9	782.8	776.6	782.8	776.6	745.4	683.4
70°	472.1	459.7	472.1	465.9	484.6	490.8	503.1	509.4	503.1	484.6	465.9
72.5°	292.0	285.8	292.0	298.2	304.5	310.5	323.0	323.0	316.8	304.5	279.5
75°	186.4	167.7	173.9	161.6	173.9	173.9	186.4	192.6	186.4	186.4	173.9
77.5°	111.9	111.9	111.9	111.9	111.9	111.9	111.9	118.1	124.2	111.9	105.6
80°	55.9	55.9	62.2	62.2	62.2	68.4	62.2	62.2	62.2	68.4	49.7
82.5°	43.5	37.2	37.2	37.2	43.5	37.2	37.2	37.2	37.2	37.2	37.2
85°	18.7	24.8	18.7	12.5	18.7	18.7	24.8	18.7	18.7	18.7	24.8
87.5°	6.2	6.2	0.0	0.0	0.0	6.2	0.0	6.2	6.2	12.5	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°	11703.9	11703.9	11703.9	11703.9	11703.9	11703.9	11703.9	11703.9	11703.9	11703.9	11703.9
2.5°	11735.0	11722.5	11722.5	11716.3	11728.8	11716.3	11722.5	11716.3	11716.3	11716.3	11716.3
5°	11778.5	11784.7	11772.3	11766.0	11784.7	11784.7	11784.7	11772.3	11772.3	11772.3	11772.3
7.5°	11840.6	11853.0	11859.2	11865.4	11877.9	11884.1	11884.1	11877.9	11871.7	11890.4	11865.4
10°	11908.9	11927.6	11964.8	11983.5	12014.5	12014.5	12027.0	12027.0	12014.5	12027.0	12020.8
12.5°	11884.1	11995.9	12058.0	12101.5	12145.0	12182.2	12194.7	12200.9	12194.7	12219.6	12194.7
15°	11927.6	12020.8	12120.2	12194.7	12275.4	12318.9	12331.3	12381.0	12393.5	12399.7	12362.5
17.5°	11859.2	12027.0	12132.5	12244.4	12362.5	12443.2	12517.7	12548.8	12555.1	12567.4	12517.7
20°	11703.9	11890.4	12051.8	12213.4	12350.0	12474.2	12536.4	12623.3	12598.5	12648.2	12579.8
22.5°	11492.7	11703.9	11908.9	12120.2	12263.1	12412.2	12542.6	12604.6	12635.8	12635.8	12561.2
25°	11157.2	11405.8	11629.4	11846.7	12064.2	12244.4	12393.5	12486.7	12505.4	12499.1	12412.2
27.5°	10635.4	10902.5	11163.5	11412.0	11679.1	11890.4	12064.2	12176.0	12207.1	12207.1	12114.0
30°	9914.8	10200.5	10455.3	10753.4	11026.8	11262.9	11505.2	11604.6	11660.4	11660.4	11554.9
32.5°	9057.5	9299.8	9535.8	9827.8	10126.0	10393.1	10623.0	10759.6	10828.0	10821.8	10728.6
35°	8125.7	8243.6	8423.9	8641.3	8908.3	9156.9	9380.5	9511.0	9629.0	9622.8	9535.8
37.5°	7193.7	7162.7	7181.4	7262.1	7429.8	7603.8	7777.7	7902.1	8001.3	8045.0	8026.3
40°	6280.6	6119.1	5963.7	5907.9	5920.3	5982.4	6075.6	6168.8	6280.6	6336.6	6361.4
42.5°	5460.6	5187.3	4913.8	4708.9	4590.8	4553.6	4597.1	4628.1	4696.5	4777.2	4858.0
45°	4802.1	4435.6	4075.2	3758.4	3559.6	3441.5	3416.7	3441.5	3478.9	3559.6	3665.3
47.5°	4261.6	3832.9	3429.2	3075.0	2783.0	2627.8	2584.4	2571.9	2609.1	2683.6	2826.5
50°	3783.2	3354.6	2907.4	2497.3	2193.0	2018.9	1956.9	1932.0	1975.4	2031.4	2161.8
52.5°	3261.4	2839.0	2379.3	1981.7	1664.9	1484.8	1416.4	1379.1	1403.9	1478.5	1609.0
55°	2696.1	2304.7	1888.5	1478.5	1174.1	1006.4	925.6	900.8	925.6	1006.4	1136.8
57.5°	2130.8	1801.6	1453.6	1068.4	795.1	627.5	546.6	521.8	590.2	621.2	757.9
60°	1664.9	1397.8	1099.6	782.8	546.6	416.2	335.5	316.8	347.9	403.7	515.6
62.5°	1248.7	1080.9	844.8	559.1	403.7	267.1	223.6	205.1	223.6	267.1	354.2
65°	907.0	776.6	590.2	410.0	273.3	198.8	149.1	136.7	155.3	186.4	261.0
67.5°	621.2	521.8	410.0	285.8	186.4	124.2	105.6	105.6	111.9	136.7	192.6
70°	403.7	341.7	261.0	186.4	124.2	93.2	80.7	68.4	80.7	99.4	130.4
72.5°	254.8	217.4	167.7	130.4	93.2	68.4	55.9	49.7	62.2	74.5	99.4
75°	155.3	118.1	86.9	68.4	49.7	49.7	49.7	24.8	31.0	49.7	62.2
77.5°	93.2	80.7	68.4	55.9	43.5	24.8	24.8	24.8	31.0	37.2	55.9
80°	49.7	43.5	31.0	31.0	24.8	18.7	24.8	18.7	12.5	31.0	37.2
82.5°	31.0	24.8	24.8	24.8	31.0	12.5	18.7	12.5	18.7	24.8	18.7
85°	18.7	18.7	18.7	12.5	31.0	12.5	12.5	6.2	6.2	12.5	12.5
87.5°	0.0	6.2	6.2	0.0	6.2	0.0	6.2	6.2	6.2	6.2	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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	11703.9	11703.9	11703.9	11703.9	11703.9	11703.9	11703.9	11703.9	11703.9	11703.9	11703.9
2.5°	11722.5	11716.3	11722.5	11716.3	11716.3	11716.3	11722.5	11722.5	11716.3	11716.3	11728.8
5°	11772.3	11772.3	11772.3	11766.0	11759.8	11759.8	11772.3	11772.3	11753.6	11772.3	11772.3
7.5°	11877.9	11859.2	11877.9	11853.0	11840.6	11846.7	11853.0	11840.6	11828.2	11834.4	11834.4
10°	12014.5	11995.9	11995.9	11977.3	11958.6	11946.1	11933.8	11902.7	11871.7	11865.4	11840.6
12.5°	12176.0	12145.0	12126.4	12089.0	12058.0	12014.5	11977.3	11927.6	11865.4	11822.0	11778.5
15°	12337.6	12287.8	12244.4	12182.2	12114.0	12039.3	11958.6	11877.9	11778.5	11691.5	11616.9
17.5°	12468.0	12399.7	12318.9	12219.6	12120.2	12008.3	11890.4	11772.3	11629.4	11517.5	11430.5
20°	12511.4	12412.2	12306.5	12176.0	12045.6	11890.4	11741.2	11585.9	11424.3	11306.4	11206.9
22.5°	12455.7	12337.6	12207.1	12070.5	11896.4	11728.8	11554.9	11374.6	11231.7	11070.3	10977.1
25°	12300.3	12157.4	12014.5	11853.0	11685.3	11498.9	11312.6	11126.2	10952.2	10865.2	10747.3
27.5°	11983.5	11828.2	11672.8	11505.2	11312.6	11126.2	10933.6	10753.4	10604.4	10486.3	10418.0
30°	11424.3	11244.2	11064.1	10883.9	10716.1	10523.5	10343.4	10194.3	10045.2	9952.0	9883.8
32.5°	10567.0	10405.6	10225.5	10051.4	9896.2	9734.6	9585.5	9455.1	9349.5	9287.3	9237.6
35°	9411.6	9250.1	9113.4	8989.2	8858.6	8790.4	8697.2	8622.6	8579.1	8554.3	8548.1
37.5°	7957.9	7864.7	7821.2	7796.4	7771.5	7753.0	7765.3	7796.4	7821.2	7864.7	7914.4
40°	6404.8	6485.6	6510.5	6597.4	6678.1	6783.8	6901.9	7038.5	7150.3	7293.2	7392.6
42.5°	4988.5	5137.6	5311.5	5497.8	5696.7	5889.2	6125.3	6342.7	6541.5	6721.6	6877.0
45°	3832.9	4062.8	4323.8	4590.8	4858.0	5137.6	5423.3	5690.4	5926.5	6119.1	6280.6
47.5°	2988.1	3242.9	3578.3	3907.6	4230.6	4559.8	4876.6	5156.1	5354.9	5541.3	5684.2
50°	2366.9	2658.9	3025.3	3404.3	3758.4	4106.2	4441.7	4702.7	4901.5	5050.6	5156.1
52.5°	1832.6	2180.5	2553.2	2950.9	3329.8	3708.7	4019.3	4261.6	4423.2	4553.6	4634.3
55°	1366.7	1708.4	2106.0	2516.0	2901.1	3267.6	3559.6	3770.9	3913.8	3988.3	4031.8
57.5°	987.7	1298.4	1695.9	2106.0	2453.8	2801.7	3037.8	3230.4	3311.1	3354.6	3373.3
60°	720.6	1006.4	1360.4	1714.6	2043.8	2323.4	2528.4	2658.9	2721.0	2745.8	2739.6
62.5°	528.1	776.6	1080.9	1379.1	1646.2	1876.0	2037.6	2124.6	2155.7	2168.0	2149.5
65°	403.7	596.3	857.3	1087.1	1292.2	1459.8	1578.0	1633.9	1652.4	1646.2	1633.9
67.5°	298.2	447.3	639.9	813.8	962.9	1093.4	1155.5	1205.2	1217.6	1199.0	1180.3
70°	211.3	329.2	465.9	584.0	695.7	770.4	838.6	844.8	844.8	838.6	826.3
72.5°	149.1	229.8	316.8	397.6	465.9	521.8	546.6	565.3	559.1	552.8	540.5
75°	99.4	142.9	229.8	248.5	310.5	329.2	354.2	354.2	360.3	341.7	341.7
77.5°	62.2	99.4	136.7	161.6	186.4	211.3	223.6	223.6	229.8	223.6	223.6
80°	37.2	62.2	74.5	111.9	111.9	130.4	136.7	142.9	130.4	149.1	130.4
82.5°	24.8	37.2	55.9	55.9	68.4	80.7	80.7	86.9	86.9	80.7	80.7
85°	18.7	24.8	31.0	37.2	37.2	43.5	37.2	37.2	43.5	49.7	43.5
87.5°	6.2	12.5	6.2	12.5	12.5	24.8	18.7	18.7	18.7	24.8	24.8
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: P248361

CATALOG NUMBER: LD8B200D010 ER8B200840 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	11703.9	11703.9	11703.9	11703.9
2.5°	11716.3	11722.5	11716.3	11716.3
5°	11772.3	11766.0	11772.3	11759.8
7.5°	11815.7	11815.7	11809.5	11809.5
10°	11815.7	11790.9	11790.9	11790.9
12.5°	11722.5	11691.5	11672.8	11660.4
15°	11561.0	11505.2	11480.3	11474.0
17.5°	11349.8	11300.1	11269.1	11250.4
20°	11107.5	11057.8	11020.6	11026.8
22.5°	10896.3	10840.5	10815.5	10803.1
25°	10685.1	10616.7	10598.2	10585.7
27.5°	10343.4	10306.2	10287.5	10268.9
30°	9821.6	9802.9	9771.9	9815.4
32.5°	9219.0	9187.9	9163.1	9181.8
35°	8554.3	8535.6	8554.3	8541.9
37.5°	7945.5	7964.1	7989.0	8001.3
40°	7467.2	7535.4	7560.4	7572.7
42.5°	6988.8	7069.6	7119.3	7150.3
45°	6398.6	6479.3	6535.3	6572.6
47.5°	5789.8	5858.2	5914.0	5907.9
50°	5237.0	5274.2	5299.0	5323.9
52.5°	4677.8	4677.8	4684.0	4684.0
55°	4044.2	4031.8	4025.5	4031.8
57.5°	3348.3	3336.0	3329.8	3311.1
60°	2714.8	2677.5	2652.6	2652.6
62.5°	2124.6	2081.1	2062.5	2056.3
65°	1596.5	1590.3	1553.0	1546.8
67.5°	1155.5	1130.6	1105.8	1112.1
70°	813.8	776.6	776.6	764.1
72.5°	528.1	509.4	503.1	503.1
75°	329.2	329.2	316.8	341.7
77.5°	217.4	217.4	211.3	217.4
80°	130.4	130.4	130.4	124.2
82.5°	80.7	86.9	80.7	80.7
85°	43.5	49.7	37.2	55.9
87.5°	24.8	31.0	24.8	31.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)