

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: P248415

Luminaire Tested: **LD8B200D010 ER8B200950 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248415
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 ER8B200950 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 5000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20942.0 lumens
Efficiency: N/A
Efficacy: 93.8 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

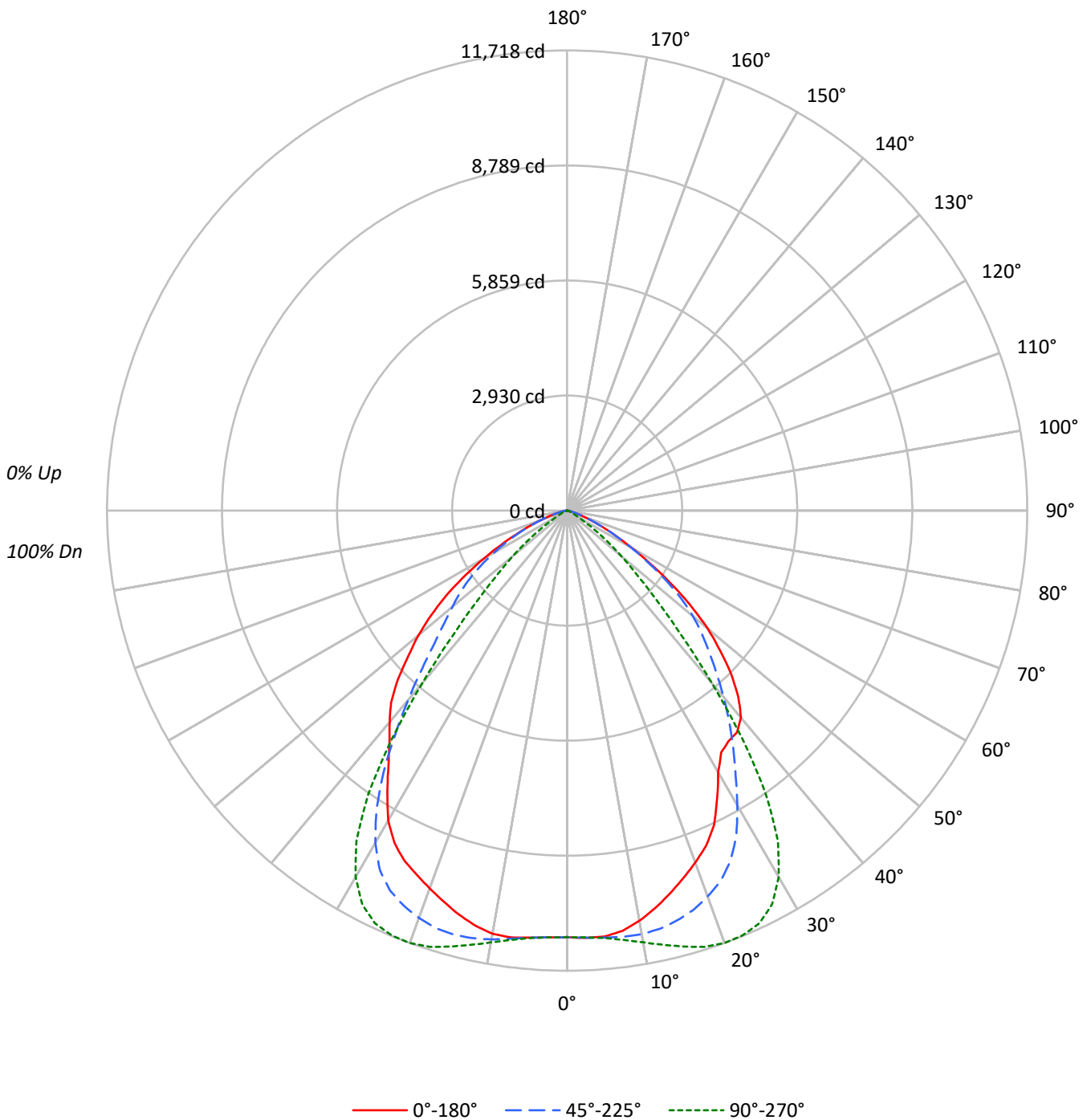
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248415

CATALOG NUMBER: LD8B200D010 ER8B200950 8LBDW0LI

Luminous Intensity Polar Plot





TEST NUMBER: P248415

CATALOG NUMBER: LD8B200D010 ER8B200950 8LBDW0LI

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°	335006	335006	335006
5°	337000	338251	337892
10°	332048	349564	342704
15°	322341	366891	340011
20°	312986	384514	335881
25°	300967	394360	334324
30°	273901	383548	324413
35°	269822	332342	298477
40°	277156	230498	282957
45°	258009	139314	266059
50°	223798	86030	237077
55°	171746	44950	201197
60°	117005	18132	151857
65°	72790	9252	104763
70°	39508	5725	63950
75°	20612	2740	37792
80°	9216	3090	20475
85°	6156	2052	18363



TEST NUMBER: P248415

CATALOG NUMBER: LD8B200D010 ER8B200950 8LBDW0LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1044.8	5.0
10°-20°	3095.0	14.8
20°-30°	4721.7	22.5
30°-40°	4927.2	23.5
40°-50°	3701.0	17.7
50°-60°	2277.1	10.9
60°-70°	926.7	4.4
70°-80°	218.3	1.0
80°-90°	30.1	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°	8861.5	42.3
0°-40°	13788.8	65.8
0°-60°	19766.9	94.4
0°-90°	20942.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20942.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10864	10864	10864	10864	10864	
5°	10887	10916	10928	10916	10916	###
15°	10097	10806	11493	11175	10651	2844
25°	8846	9838	11591	10674	9826	4021
35°	7168	7370	8828	8160	7929	4526
45°	5916	5121	3195	4769	6101	4514
55°	3195	3033	836	3033	3742	2872
65°	998	1009	127	1355	1436	1040
75°	173	173	23	306	317	208
85°	17	17	6	40	52	24
90°	0	0	0	0	0	



TEST NUMBER: P248415

CATALOG NUMBER: LD8B200D010 ER8B200950 8LBDW0LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	10864.0	10864.0	10864.0	10864.0	10864.0	10864.0	10864.0	10864.0	10864.0	10864.0	10864.0
2.5°	10892.9	10875.5	10892.9	10892.9	10898.7	10887.1	10892.9	10898.7	10887.1	10887.1	10887.1
5°	10887.1	10875.5	10887.1	10881.3	10892.9	10892.9	10904.5	10904.5	10915.9	10915.9	10933.2
7.5°	10794.8	10771.8	10794.8	10812.2	10823.6	10846.8	10875.5	10898.7	10921.7	10944.8	10973.6
10°	10604.5	10604.5	10621.8	10656.4	10691.0	10731.3	10783.3	10841.0	10898.7	10950.5	11002.4
12.5°	10368.2	10350.8	10385.4	10431.5	10483.4	10546.9	10627.6	10714.1	10806.4	10910.1	10991.0
15°	10097.1	10079.8	10120.1	10166.3	10229.7	10322.0	10420.1	10535.4	10668.0	10806.4	10939.0
17.5°	9820.3	9814.5	9854.9	9918.3	9970.3	10068.2	10195.2	10333.5	10483.4	10668.0	10841.0
20°	9537.8	9532.0	9572.4	9624.3	9693.4	9785.7	9912.6	10074.0	10252.7	10460.4	10662.2
22.5°	9243.6	9249.4	9284.0	9341.7	9399.4	9497.3	9629.9	9791.5	9987.5	10212.4	10437.3
25°	8845.7	8816.9	8863.1	8920.8	9018.7	9099.4	9226.4	9399.4	9601.2	9837.6	10102.9
27.5°	8269.1	8263.3	8303.8	8355.6	8442.1	8540.1	8678.5	8857.3	9070.6	9330.1	9589.6
30°	7692.4	7704.0	7721.3	7773.3	7830.8	7928.9	8067.3	8217.3	8419.1	8667.0	8943.8
32.5°	7300.3	7300.3	7323.4	7358.0	7398.4	7450.3	7548.4	7657.8	7813.6	7986.6	8188.4
35°	7167.7	7144.7	7167.7	7173.5	7179.2	7190.8	7208.0	7242.7	7294.5	7369.6	7444.5
37.5°	7110.1	7092.8	7092.8	7069.8	7040.8	7006.3	6960.1	6908.2	6850.6	6775.6	6718.0
40°	6885.2	6873.6	6862.1	6839.1	6775.6	6706.4	6631.4	6510.3	6377.7	6193.1	6008.7
42.5°	6452.7	6441.2	6435.4	6389.3	6331.5	6250.8	6164.3	6037.5	5870.3	5633.8	5368.6
45°	5916.4	5893.3	5876.1	5835.7	5795.2	5726.1	5645.4	5530.0	5362.8	5120.7	4803.5
47.5°	5293.6	5282.1	5276.3	5259.1	5218.7	5178.2	5126.4	5034.2	4884.2	4653.5	4324.9
50°	4665.1	4642.1	4653.5	4647.8	4630.5	4601.7	4567.0	4503.6	4388.2	4180.7	3880.8
52.5°	3944.2	3944.2	3938.6	3955.8	3961.6	3955.8	3961.6	3892.4	3794.4	3638.6	3384.9
55°	3194.6	3194.6	3211.9	3235.0	3258.0	3263.8	3258.0	3229.3	3160.0	3033.1	2808.2
57.5°	2491.1	2479.6	2514.2	2548.8	2571.9	2594.9	2577.5	2554.5	2514.2	2410.3	2237.4
60°	1897.2	1897.2	1920.2	1943.3	1966.3	1989.5	1983.7	1977.9	1943.3	1874.0	1735.8
62.5°	1395.4	1401.2	1401.2	1418.6	1441.6	1464.7	1481.9	1464.7	1447.4	1401.2	1308.9
65°	997.6	991.8	997.6	1014.9	1032.3	1055.3	1066.8	1061.0	1043.7	1009.1	940.0
67.5°	668.9	663.2	686.2	691.9	703.5	726.6	720.9	726.6	720.9	691.9	634.4
70°	438.2	426.7	438.2	432.5	449.8	455.6	467.0	472.8	467.0	449.8	432.5
72.5°	271.0	265.3	271.0	276.8	282.6	288.3	299.8	299.8	294.0	282.6	259.5
75°	173.0	155.6	161.4	150.0	161.4	161.4	173.0	178.8	173.0	173.0	161.4
77.5°	103.8	103.8	103.8	103.8	103.8	103.8	103.8	109.6	115.3	103.8	98.1
80°	51.9	51.9	57.7	57.7	57.7	63.5	57.7	57.7	57.7	63.5	46.1
82.5°	40.4	34.6	34.6	34.6	40.4	34.6	34.6	34.6	34.6	34.6	34.6
85°	17.4	23.0	17.4	11.6	17.4	17.4	23.0	17.4	17.4	17.4	23.0
87.5°	5.8	5.8	0.0	0.0	0.0	5.8	0.0	5.8	5.8	11.6	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



TEST NUMBER: P248415

CATALOG NUMBER: LD8B200D010 ER8B200950 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	10864.0	10864.0	10864.0	10864.0	10864.0	10864.0	10864.0	10864.0	10864.0	10864.0	10864.0
2.5°	10892.9	10881.3	10881.3	10875.5	10887.1	10875.5	10881.3	10875.5	10875.5	10887.1	10875.5
5°	10933.2	10939.0	10927.5	10921.7	10939.0	10939.0	10939.0	10927.5	10927.5	10933.2	10927.5
7.5°	10991.0	11002.4	11008.2	11014.0	11025.5	11031.3	11031.3	11025.5	11019.7	11037.1	11014.0
10°	11054.3	11071.7	11106.2	11123.6	11152.4	11152.4	11163.9	11163.9	11152.4	11163.9	11158.2
12.5°	11031.3	11135.0	11192.7	11233.1	11273.4	11308.0	11319.6	11325.4	11319.6	11342.7	11319.6
15°	11071.7	11158.2	11250.4	11319.6	11394.5	11434.8	11446.4	11492.6	11504.1	11509.9	11475.3
17.5°	11008.2	11163.9	11261.9	11365.7	11475.3	11550.3	11619.4	11648.3	11654.1	11665.5	11619.4
20°	10864.0	11037.1	11186.9	11336.9	11463.8	11579.0	11636.8	11717.5	11694.5	11740.6	11677.1
22.5°	10668.0	10864.0	11054.3	11250.4	11383.1	11521.5	11642.5	11700.1	11729.0	11729.0	11659.8
25°	10356.6	10587.3	10794.8	10996.6	11198.5	11365.7	11504.1	11590.6	11608.0	11602.2	11521.5
27.5°	9872.2	10120.1	10362.4	10593.1	10841.0	11037.1	11198.5	11302.2	11331.1	11331.1	11244.6
30°	9203.3	9468.5	9705.0	9981.7	10235.5	10454.6	10679.6	10771.8	10823.6	10823.6	10725.7
32.5°	8407.5	8632.4	8851.5	9122.6	9399.4	9647.3	9860.6	9987.5	10051.0	10045.2	9958.7
35°	7542.6	7652.1	7819.4	8021.2	8269.1	8499.8	8707.3	8828.5	8938.0	8932.2	8851.5
37.5°	6677.5	6648.7	6666.1	6741.0	6896.6	7058.2	7219.6	7335.0	7427.2	7467.6	7450.3
40°	5829.9	5680.0	5535.8	5484.0	5495.4	5553.1	5639.6	5726.1	5829.9	5881.9	5904.9
42.5°	5068.7	4815.0	4561.2	4371.0	4261.4	4226.8	4267.2	4296.0	4359.4	4434.4	4509.4
45°	4457.5	4117.3	3782.8	3488.7	3304.2	3194.6	3171.6	3194.6	3229.3	3304.2	3402.2
47.5°	3955.8	3557.9	3183.1	2854.4	2583.3	2439.3	2398.9	2387.3	2421.9	2491.1	2623.7
50°	3511.7	3113.8	2698.7	2318.1	2035.6	1874.0	1816.5	1793.3	1833.7	1885.6	2006.7
52.5°	3027.4	2635.3	2208.6	1839.5	1545.4	1378.2	1314.7	1280.2	1303.2	1372.4	1493.5
55°	2502.6	2139.3	1753.0	1372.4	1089.8	934.2	859.1	836.1	859.1	934.2	1055.3
57.5°	1977.9	1672.3	1349.3	991.8	738.1	582.4	507.4	484.4	547.9	576.7	703.5
60°	1545.4	1297.5	1020.7	726.6	507.4	386.3	311.4	294.0	323.0	374.8	478.6
62.5°	1159.1	1003.3	784.2	519.0	374.8	247.9	207.6	190.3	207.6	247.9	328.8
65°	841.9	720.9	547.9	380.5	253.7	184.6	138.4	126.8	144.2	173.0	242.3
67.5°	576.7	484.4	380.5	265.3	173.0	115.3	98.1	98.1	103.8	126.8	178.8
70°	374.8	317.2	242.3	173.0	115.3	86.5	74.9	63.5	74.9	92.3	121.1
72.5°	236.5	201.8	155.6	121.1	86.5	63.5	51.9	46.1	57.7	69.1	92.3
75°	144.2	109.6	80.7	63.5	46.1	46.1	46.1	23.0	28.8	46.1	57.7
77.5°	86.5	74.9	63.5	51.9	40.4	23.0	23.0	23.0	28.8	34.6	51.9
80°	46.1	40.4	28.8	28.8	23.0	17.4	23.0	17.4	11.6	28.8	34.6
82.5°	28.8	23.0	23.0	23.0	28.8	11.6	17.4	11.6	17.4	23.0	17.4
85°	17.4	17.4	17.4	11.6	28.8	11.6	11.6	5.8	5.8	11.6	11.6
87.5°	0.0	5.8	5.8	0.0	5.8	0.0	5.8	5.8	5.8	5.8	5.8
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: P248415

CATALOG NUMBER: LD8B200D010 ER8B200950 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	10864.0	10864.0	10864.0	10864.0	10864.0	10864.0	10864.0	10864.0	10864.0	10864.0	10864.0
2.5°	10881.3	10875.5	10881.3	10875.5	10875.5	10875.5	10881.3	10881.3	10875.5	10875.5	10887.1
5°	10927.5	10927.5	10927.5	10921.7	10915.9	10915.9	10927.5	10927.5	10910.1	10927.5	10927.5
7.5°	11025.5	11008.2	11025.5	11002.4	10991.0	10996.6	11002.4	10991.0	10979.4	10985.2	10985.2
10°	11152.4	11135.0	11135.0	11117.8	11100.4	11088.9	11077.4	11048.5	11019.7	11014.0	10991.0
12.5°	11302.2	11273.4	11256.2	11221.5	11192.7	11152.4	11117.8	11071.7	11014.0	10973.6	10933.2
15°	11452.2	11406.1	11365.7	11308.0	11244.6	11175.4	11100.4	11025.5	10933.2	10852.5	10783.3
17.5°	11573.3	11509.9	11434.8	11342.7	11250.4	11146.6	11037.1	10927.5	10794.8	10691.0	10610.3
20°	11613.6	11521.5	11423.4	11302.2	11181.2	11037.1	10898.7	10754.5	10604.5	10495.0	10402.7
22.5°	11561.8	11452.2	11331.1	11204.3	11042.7	10887.1	10725.7	10558.4	10425.7	10275.9	10189.4
25°	11417.6	11285.0	11152.4	11002.4	10846.8	10673.8	10500.8	10327.8	10166.3	10085.5	9976.0
27.5°	11123.6	10979.4	10835.2	10679.6	10500.8	10327.8	10149.0	9981.7	9843.4	9733.8	9670.4
30°	10604.5	10437.3	10270.1	10102.9	9947.1	9768.4	9601.2	9462.7	9324.3	9237.8	9174.5
32.5°	9808.7	9658.9	9491.7	9330.1	9186.1	9036.1	8897.7	8776.6	8678.5	8620.8	8574.7
35°	8736.2	8586.3	8459.4	8344.1	8222.9	8159.6	8073.1	8003.8	7963.5	7940.5	7934.7
37.5°	7386.8	7300.3	7260.0	7237.0	7213.8	7196.6	7208.0	7237.0	7260.0	7300.3	7346.4
40°	5945.2	6020.1	6043.3	6124.0	6198.9	6297.0	6406.6	6533.4	6637.2	6769.8	6862.1
42.5°	4630.5	4768.9	4930.3	5103.3	5287.9	5466.6	5685.7	5887.5	6072.1	6239.3	6383.5
45°	3557.9	3771.2	4013.5	4261.4	4509.4	4768.9	5034.2	5282.1	5501.2	5680.0	5829.9
47.5°	2773.7	3010.1	3321.5	3627.2	3927.0	4232.6	4526.6	4786.1	4970.7	5143.7	5276.3
50°	2197.0	2468.1	2808.2	3160.0	3488.7	3811.6	4123.0	4365.2	4549.8	4688.2	4786.1
52.5°	1701.1	2024.0	2370.0	2739.1	3090.8	3442.6	3730.9	3955.8	4105.8	4226.8	4301.7
55°	1268.6	1585.8	1954.9	2335.4	2693.0	3033.1	3304.2	3500.3	3632.9	3702.1	3742.4
57.5°	916.8	1205.2	1574.2	1954.9	2277.7	2600.7	2819.8	2998.6	3073.5	3113.8	3131.2
60°	668.9	934.2	1262.8	1591.6	1897.2	2156.7	2347.0	2468.1	2525.8	2548.8	2543.0
62.5°	490.2	720.9	1003.3	1280.2	1528.1	1741.4	1891.4	1972.1	2001.0	2012.5	1995.2
65°	374.8	553.5	795.8	1009.1	1199.5	1355.1	1464.7	1516.6	1533.9	1528.1	1516.6
67.5°	276.8	415.2	594.0	755.4	893.8	1014.9	1072.6	1118.7	1130.2	1113.0	1095.6
70°	196.1	305.6	432.5	542.1	645.8	715.1	778.4	784.2	784.2	778.4	767.0
72.5°	138.4	213.3	294.0	369.1	432.5	484.4	507.4	524.7	519.0	513.2	501.7
75°	92.3	132.6	213.3	230.7	288.3	305.6	328.8	328.8	334.4	317.2	317.2
77.5°	57.7	92.3	126.8	150.0	173.0	196.1	207.6	207.6	213.3	207.6	207.6
80°	34.6	57.7	69.1	103.8	103.8	121.1	126.8	132.6	121.1	138.4	121.1
82.5°	23.0	34.6	51.9	51.9	63.5	74.9	74.9	80.7	80.7	74.9	74.9
85°	17.4	23.0	28.8	34.6	34.6	40.4	34.6	34.6	40.4	46.1	40.4
87.5°	5.8	11.6	5.8	11.6	11.6	23.0	17.4	17.4	17.4	23.0	23.0
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: P248415

CATALOG NUMBER: LD8B200D010 ER8B200950 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	10864.0	10864.0	10864.0	10864.0
2.5°	10875.5	10881.3	10875.5	10875.5
5°	10927.5	10921.7	10927.5	10915.9
7.5°	10967.8	10967.8	10962.0	10962.0
10°	10967.8	10944.8	10944.8	10944.8
12.5°	10881.3	10852.5	10835.2	10823.6
15°	10731.3	10679.6	10656.4	10650.6
17.5°	10535.4	10489.2	10460.4	10443.1
20°	10310.4	10264.3	10229.7	10235.5
22.5°	10114.3	10062.5	10039.4	10027.8
25°	9918.3	9854.9	9837.6	9826.1
27.5°	9601.2	9566.6	9549.2	9532.0
30°	9116.8	9099.4	9070.6	9111.0
32.5°	8557.5	8528.6	8505.5	8522.9
35°	7940.5	7923.1	7940.5	7928.9
37.5°	7375.4	7392.6	7415.7	7427.2
40°	6931.3	6994.7	7017.8	7029.3
42.5°	6487.3	6562.2	6608.4	6637.2
45°	5939.4	6014.4	6066.3	6101.0
47.5°	5374.3	5437.8	5489.6	5484.0
50°	4861.2	4895.7	4918.8	4941.9
52.5°	4342.1	4342.1	4347.9	4347.9
55°	3754.0	3742.4	3736.6	3742.4
57.5°	3108.1	3096.6	3090.8	3073.5
60°	2520.0	2485.4	2462.3	2462.3
62.5°	1972.1	1931.7	1914.5	1908.7
65°	1481.9	1476.1	1441.6	1435.8
67.5°	1072.6	1049.5	1026.5	1032.3
70°	755.4	720.9	720.9	709.3
72.5°	490.2	472.8	467.0	467.0
75°	305.6	305.6	294.0	317.2
77.5°	201.8	201.8	196.1	201.8
80°	121.1	121.1	121.1	115.3
82.5°	74.9	80.7	74.9	74.9
85°	40.4	46.1	34.6	51.9
87.5°	23.0	28.8	23.0	28.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)