

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: P248370

Luminaire Tested: **LD8B200D010 ER8B200850 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248370
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 ER8B200850 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 5000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23003.0 lumens
Efficiency: N/A
Efficacy: 103.0 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

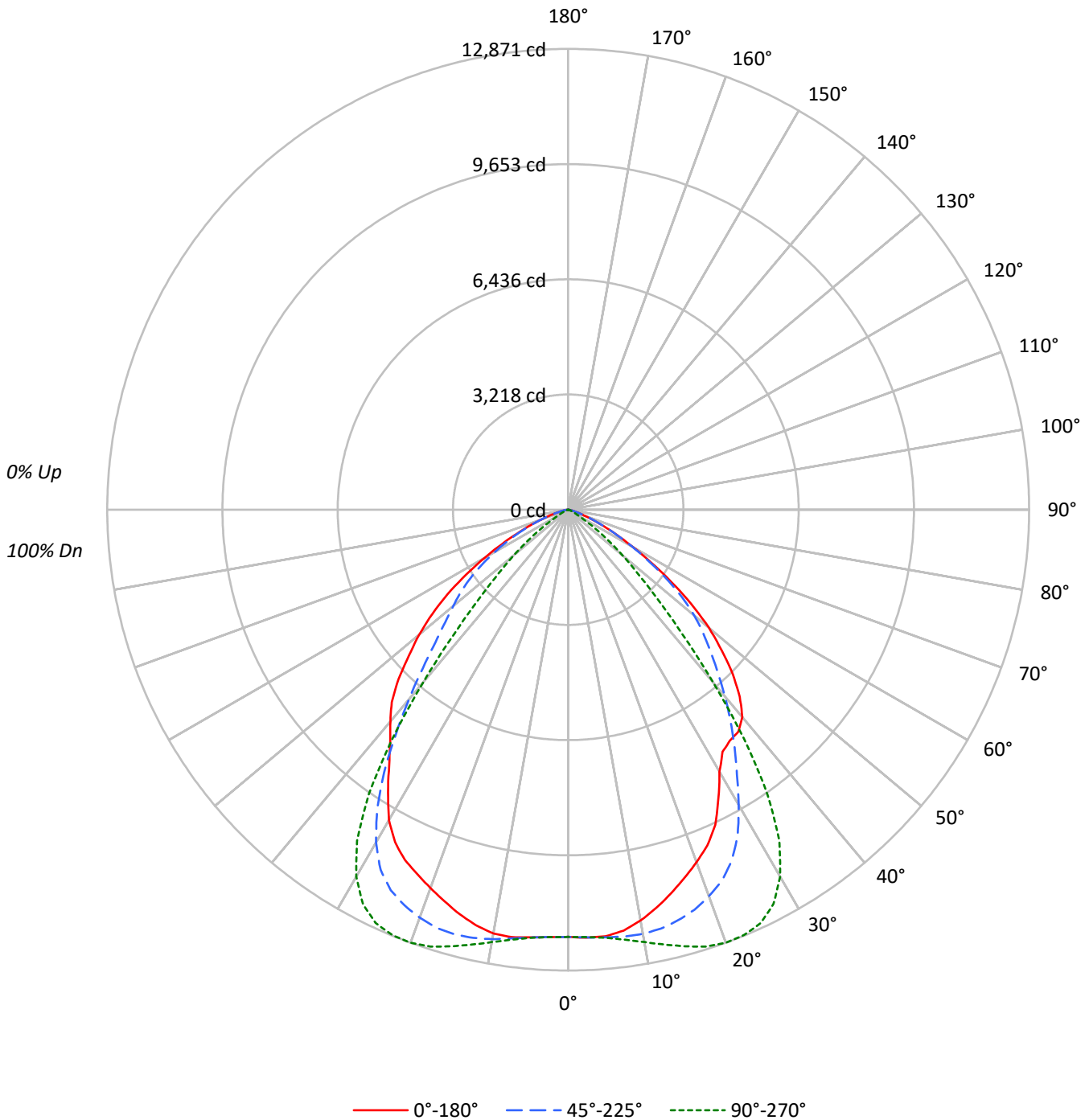
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90					90			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62					62			
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56					56			
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50					50			
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45					45			
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41					41			
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38					38			
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	367973	367973	367973
5°	370168	371539	371146
10°	364725	383967	376430
15°	354064	402997	373474
20°	343790	422353	368939
25°	330588	433171	367226
30°	300859	421295	356338
35°	296376	365051	327851
40°	304433	253181	310801
45°	283403	153020	292242
50°	245822	94497	260406
55°	188644	49375	220997
60°	128520	19920	166800
65°	79948	10164	115073
70°	43403	6284	70243
75°	22637	3014	41509
80°	10122	3392	22482
85°	6758	2264	20167



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1147.6	5.0
10°-20°	3399.6	14.8
20°-30°	5186.4	22.5
30°-40°	5412.1	23.5
40°-50°	4065.2	17.7
50°-60°	2501.2	10.9
60°-70°	1017.9	4.4
70°-80°	239.8	1.0
80°-90°	33.0	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°	9733.6	42.3
0°-40°	15145.8	65.8
0°-60°	21712.2	94.4
0°-90°	23003.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23003.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11933	11933	11933	11933	11933	
5°	11959	11990	12003	11990	11990	###
15°	11091	11870	12624	12275	11699	3124
25°	9716	10806	12731	11724	10793	4417
35°	7873	8095	9697	8963	8709	4971
45°	6499	5625	3509	5238	6701	4958
55°	3509	3332	918	3332	4111	3154
65°	1096	1108	139	1488	1577	1143
75°	190	190	25	336	348	229
85°	19	19	6	44	57	27
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°	11933.1	11933.1	11933.1	11933.1	11933.1	11933.1	11933.1	11933.1	11933.1	11933.1	11933.1
2.5°	11964.9	11945.9	11964.9	11964.9	11971.3	11958.6	11964.9	11971.3	11958.6	11958.6	11958.6
5°	11958.6	11945.9	11958.6	11952.2	11964.9	11964.9	11977.6	11977.6	11990.2	11990.2	12009.2
7.5°	11857.2	11831.9	11857.2	11876.3	11888.8	11914.2	11945.9	11971.3	11996.5	12021.9	12053.6
10°	11648.1	11648.1	11667.2	11705.2	11743.1	11787.5	11844.5	11907.9	11971.3	12028.2	12085.2
12.5°	11388.5	11369.5	11407.4	11458.1	11515.2	11584.9	11673.5	11768.6	11869.9	11983.8	12072.6
15°	11090.8	11071.8	11116.1	11166.8	11236.5	11337.9	11445.6	11572.2	11717.9	11869.9	12015.6
17.5°	10786.7	10780.4	10824.7	10894.5	10951.5	11059.0	11198.5	11350.4	11515.2	11717.9	11907.9
20°	10476.5	10470.1	10514.4	10571.5	10647.4	10748.8	10888.1	11065.4	11261.8	11489.9	11711.5
22.5°	10153.3	10159.7	10197.7	10261.0	10324.4	10432.0	10577.7	10755.1	10970.4	11217.4	11464.5
25°	9716.3	9684.7	9735.3	9798.7	9906.3	9994.9	10134.4	10324.4	10546.1	10805.8	11097.2
27.5°	9082.9	9076.5	9121.0	9177.9	9272.9	9380.6	9532.6	9729.0	9963.3	10248.3	10533.3
30°	8449.5	8462.2	8481.2	8538.3	8601.5	8709.2	8861.2	9026.0	9247.6	9519.9	9824.0
32.5°	8018.8	8018.8	8044.2	8082.2	8126.5	8183.5	8291.2	8411.5	8582.6	8772.6	8994.2
35°	7873.1	7847.8	7873.1	7879.4	7885.8	7898.5	7917.4	7955.5	8012.4	8094.9	8177.2
37.5°	7809.8	7790.8	7790.8	7765.5	7733.8	7695.8	7645.1	7588.1	7524.8	7442.4	7379.2
40°	7562.8	7550.1	7537.4	7512.1	7442.4	7366.4	7284.0	7151.0	7005.3	6802.6	6600.1
42.5°	7087.8	7075.1	7068.7	7018.0	6954.7	6866.0	6771.0	6631.7	6448.0	6188.3	5896.9
45°	6498.7	6473.3	6454.4	6410.0	6365.6	6289.6	6201.0	6074.2	5890.6	5624.6	5276.2
47.5°	5814.6	5801.9	5795.6	5776.6	5732.3	5687.8	5631.0	5529.6	5364.9	5111.5	4750.5
50°	5124.2	5098.9	5111.5	5105.3	5086.2	5054.6	5016.5	4946.9	4820.1	4592.1	4262.8
52.5°	4332.4	4332.4	4326.2	4345.1	4351.4	4345.1	4351.4	4275.5	4167.8	3996.7	3718.0
55°	3508.9	3508.9	3528.0	3553.4	3578.7	3585.0	3578.7	3547.1	3471.0	3331.6	3084.6
57.5°	2736.2	2723.7	2761.6	2799.6	2825.0	2850.3	2831.2	2805.9	2761.6	2647.6	2457.5
60°	2083.9	2083.9	2109.2	2134.6	2159.8	2185.2	2178.9	2172.5	2134.6	2058.5	1906.6
62.5°	1532.8	1539.1	1539.1	1558.2	1583.5	1608.9	1627.8	1608.9	1589.8	1539.1	1437.8
65°	1095.7	1089.4	1095.7	1114.8	1133.8	1159.1	1171.8	1165.5	1146.4	1108.4	1032.5
67.5°	734.8	728.4	753.7	760.0	772.7	798.2	791.8	798.2	791.8	760.0	696.8
70°	481.4	468.7	481.4	475.0	494.1	500.4	513.0	519.3	513.0	494.1	475.0
72.5°	297.7	291.4	297.7	304.1	310.4	316.6	329.3	329.3	323.0	310.4	285.0
75°	190.0	170.9	177.3	164.7	177.3	177.3	190.0	196.4	190.0	190.0	177.3
77.5°	114.1	114.1	114.1	114.1	114.1	114.1	114.1	120.4	126.6	114.1	107.7
80°	57.0	57.0	63.4	63.4	63.4	69.7	63.4	63.4	63.4	69.7	50.7
82.5°	44.3	38.0	38.0	38.0	44.3	38.0	38.0	38.0	38.0	38.0	38.0
85°	19.1	25.3	19.1	12.7	19.1	19.1	25.3	19.1	19.1	19.1	25.3
87.5°	6.4	6.4	0.0	0.0	0.0	6.4	0.0	6.4	6.4	12.7	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°	11933.1	11933.1	11933.1	11933.1	11933.1	11933.1	11933.1	11933.1	11933.1	11933.1	11933.1
2.5°	11964.9	11952.2	11952.2	11945.9	11958.6	11945.9	11952.2	11945.9	11945.9	11958.6	11945.9
5°	12009.2	12015.6	12002.9	11996.5	12015.6	12015.6	12015.6	12002.9	12002.9	12009.2	12002.9
7.5°	12072.6	12085.2	12091.5	12097.9	12110.6	12116.9	12116.9	12110.6	12104.2	12123.3	12097.9
10°	12142.2	12161.3	12199.2	12218.3	12249.9	12249.9	12262.6	12262.6	12249.9	12262.6	12256.3
12.5°	12116.9	12230.9	12294.3	12338.6	12382.9	12420.9	12433.6	12439.9	12433.6	12459.0	12433.6
15°	12161.3	12256.3	12357.6	12433.6	12515.9	12560.2	12572.9	12623.6	12636.3	12642.6	12604.7
17.5°	12091.5	12262.6	12370.2	12484.3	12604.7	12687.0	12762.9	12794.7	12801.0	12813.6	12762.9
20°	11933.1	12123.3	12287.9	12452.6	12592.0	12718.6	12782.0	12870.6	12845.4	12896.0	12826.3
22.5°	11717.9	11933.1	12142.2	12357.6	12503.3	12655.4	12788.3	12851.6	12883.3	12883.3	12807.2
25°	11375.8	11629.2	11857.2	12078.8	12300.6	12484.3	12636.3	12731.3	12750.4	12744.0	12655.4
27.5°	10843.8	11116.1	11382.2	11635.6	11907.9	12123.3	12300.6	12414.5	12446.3	12446.3	12351.3
30°	10109.0	10400.4	10660.1	10964.0	11242.9	11483.5	11730.6	11831.9	11888.8	11888.8	11781.3
32.5°	9234.9	9481.9	9722.6	10020.4	10324.4	10596.7	10831.1	10970.4	11040.1	11033.8	10938.8
35°	8284.9	8405.1	8588.9	8810.6	9082.9	9336.3	9564.2	9697.4	9817.6	9811.3	9722.6
37.5°	7334.7	7303.1	7322.1	7404.4	7575.4	7752.8	7930.1	8056.9	8158.1	8202.6	8183.5
40°	6403.7	6239.0	6080.6	6023.7	6036.2	6099.6	6194.6	6289.6	6403.7	6460.7	6486.0
42.5°	5567.6	5288.9	5010.1	4801.2	4680.8	4642.8	4687.1	4718.7	4788.5	4870.8	4953.2
45°	4896.2	4522.5	4155.1	3832.1	3629.4	3508.9	3483.7	3508.9	3547.1	3629.4	3737.1
47.5°	4345.1	3908.0	3496.4	3135.3	2837.6	2679.3	2635.0	2622.3	2660.3	2736.2	2881.9
50°	3857.3	3420.3	2964.3	2546.2	2235.9	2058.5	1995.2	1969.8	2014.1	2071.2	2204.2
52.5°	3325.3	2894.6	2425.9	2020.5	1697.5	1513.9	1444.1	1406.2	1431.4	1507.5	1640.5
55°	2748.9	2349.8	1925.5	1507.5	1197.1	1026.1	943.7	918.4	943.7	1026.1	1159.1
57.5°	2172.5	1836.8	1482.1	1089.4	810.7	639.8	557.3	532.1	601.8	633.4	772.7
60°	1697.5	1425.2	1121.1	798.2	557.3	424.3	342.0	323.0	354.8	411.6	525.7
62.5°	1273.2	1102.1	861.4	570.0	411.6	272.3	228.0	209.1	228.0	272.3	361.1
65°	924.8	791.8	601.8	418.0	278.7	202.7	152.0	139.3	158.4	190.0	266.1
67.5°	633.4	532.1	418.0	291.4	190.0	126.6	107.7	107.7	114.1	139.3	196.4
70°	411.6	348.4	266.1	190.0	126.6	95.0	82.3	69.7	82.3	101.4	133.0
72.5°	259.7	221.6	170.9	133.0	95.0	69.7	57.0	50.7	63.4	75.9	101.4
75°	158.4	120.4	88.7	69.7	50.7	50.7	50.7	25.3	31.6	50.7	63.4
77.5°	95.0	82.3	69.7	57.0	44.3	25.3	25.3	25.3	31.6	38.0	57.0
80°	50.7	44.3	31.6	31.6	25.3	19.1	25.3	19.1	12.7	31.6	38.0
82.5°	31.6	25.3	25.3	25.3	31.6	12.7	19.1	12.7	19.1	25.3	19.1
85°	19.1	19.1	19.1	12.7	31.6	12.7	12.7	6.4	6.4	12.7	12.7
87.5°	0.0	6.4	6.4	0.0	6.4	0.0	6.4	6.4	6.4	6.4	6.4
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°	11933.1	11933.1	11933.1	11933.1	11933.1	11933.1	11933.1	11933.1	11933.1	11933.1	11933.1
2.5°	11952.2	11945.9	11952.2	11945.9	11945.9	11945.9	11952.2	11952.2	11945.9	11945.9	11958.6
5°	12002.9	12002.9	12002.9	11996.5	11990.2	11990.2	12002.9	12002.9	11983.8	12002.9	12002.9
7.5°	12110.6	12091.5	12110.6	12085.2	12072.6	12078.8	12085.2	12072.6	12059.9	12066.3	12066.3
10°	12249.9	12230.9	12230.9	12212.0	12192.9	12180.2	12167.6	12135.9	12104.2	12097.9	12072.6
12.5°	12414.5	12382.9	12364.0	12325.9	12294.3	12249.9	12212.0	12161.3	12097.9	12053.6	12009.2
15°	12579.3	12528.6	12484.3	12420.9	12351.3	12275.2	12192.9	12110.6	12009.2	11920.6	11844.5
17.5°	12712.2	12642.6	12560.2	12459.0	12357.6	12243.6	12123.3	12002.9	11857.2	11743.1	11654.5
20°	12756.6	12655.4	12547.6	12414.5	12281.5	12123.3	11971.3	11812.9	11648.1	11527.9	11426.5
22.5°	12699.7	12579.3	12446.3	12307.0	12129.5	11958.6	11781.3	11597.5	11451.8	11287.2	11192.2
25°	12541.3	12395.6	12249.9	12085.2	11914.2	11724.2	11534.2	11344.2	11166.8	11078.1	10957.8
27.5°	12218.3	12059.9	11901.5	11730.6	11534.2	11344.2	11147.8	10964.0	10812.2	10691.7	10622.1
30°	11648.1	11464.5	11280.8	11097.2	10926.1	10729.7	10546.1	10394.0	10242.0	10147.0	10077.4
32.5°	10774.0	10609.4	10425.8	10248.3	10090.1	9925.4	9773.3	9640.3	9532.6	9469.2	9418.6
35°	9596.0	9431.3	9291.9	9165.3	9032.2	8962.6	8867.6	8791.5	8747.2	8721.9	8715.6
37.5°	8113.8	8018.8	7974.4	7949.2	7923.8	7904.9	7917.4	7949.2	7974.4	8018.8	8069.4
40°	6530.3	6612.6	6638.0	6726.7	6809.0	6916.7	7037.1	7176.4	7290.4	7436.0	7537.4
42.5°	5086.2	5238.2	5415.5	5605.5	5808.3	6004.6	6245.3	6466.9	6669.6	6853.3	7011.7
45°	3908.0	4142.4	4408.5	4680.8	4953.2	5238.2	5529.6	5801.9	6042.6	6239.0	6403.7
47.5°	3046.6	3306.4	3648.4	3984.1	4313.5	4649.1	4972.1	5257.1	5459.9	5649.9	5795.6
50°	2413.2	2710.9	3084.6	3471.0	3832.1	4186.7	4528.7	4794.8	4997.5	5149.6	5257.1
52.5°	1868.5	2223.2	2603.2	3008.7	3395.0	3781.4	4098.0	4345.1	4509.8	4642.8	4725.1
55°	1393.4	1741.8	2147.3	2565.3	2958.0	3331.6	3629.4	3844.8	3990.5	4066.4	4110.7
57.5°	1007.1	1323.9	1729.1	2147.3	2501.9	2856.6	3097.3	3293.7	3376.0	3420.3	3439.4
60°	734.8	1026.1	1387.1	1748.2	2083.9	2368.9	2578.0	2710.9	2774.3	2799.6	2793.2
62.5°	538.4	791.8	1102.1	1406.2	1678.5	1912.8	2077.5	2166.2	2198.0	2210.5	2191.6
65°	411.6	608.0	874.1	1108.4	1317.5	1488.4	1608.9	1665.9	1684.8	1678.5	1665.9
67.5°	304.1	456.1	652.5	829.8	981.8	1114.8	1178.2	1228.8	1241.4	1222.5	1203.4
70°	215.4	335.7	475.0	595.4	709.4	785.4	855.0	861.4	861.4	855.0	842.5
72.5°	152.0	234.3	323.0	405.4	475.0	532.1	557.3	576.4	570.0	563.7	551.1
75°	101.4	145.7	234.3	253.4	316.6	335.7	361.1	361.1	367.3	348.4	348.4
77.5°	63.4	101.4	139.3	164.7	190.0	215.4	228.0	228.0	234.3	228.0	228.0
80°	38.0	63.4	75.9	114.1	114.1	133.0	139.3	145.7	133.0	152.0	133.0
82.5°	25.3	38.0	57.0	57.0	69.7	82.3	82.3	88.7	88.7	82.3	82.3
85°	19.1	25.3	31.6	38.0	38.0	44.3	38.0	38.0	44.3	50.7	44.3
87.5°	6.4	12.7	6.4	12.7	12.7	25.3	19.1	19.1	19.1	25.3	25.3
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: P248370

CATALOG NUMBER: LD8B200D010 ER8B200850 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	11933.1	11933.1	11933.1	11933.1
2.5°	11945.9	11952.2	11945.9	11945.9
5°	12002.9	11996.5	12002.9	11990.2
7.5°	12047.2	12047.2	12040.9	12040.9
10°	12047.2	12021.9	12021.9	12021.9
12.5°	11952.2	11920.6	11901.5	11888.8
15°	11787.5	11730.6	11705.2	11698.8
17.5°	11572.2	11521.5	11489.9	11470.8
20°	11325.1	11274.5	11236.5	11242.9
22.5°	11109.7	11052.8	11027.4	11014.7
25°	10894.5	10824.7	10805.8	10793.1
27.5°	10546.1	10508.1	10489.0	10470.1
30°	10014.0	9994.9	9963.3	10007.6
32.5°	9399.7	9367.9	9342.6	9361.7
35°	8721.9	8702.9	8721.9	8709.2
37.5°	8101.2	8120.1	8145.5	8158.1
40°	7613.5	7683.1	7708.5	7721.0
42.5°	7125.8	7208.1	7258.7	7290.4
45°	6524.0	6606.3	6663.3	6701.4
47.5°	5903.3	5973.0	6029.9	6023.7
50°	5339.6	5377.6	5402.8	5428.2
52.5°	4769.4	4769.4	4775.8	4775.8
55°	4123.4	4110.7	4104.4	4110.7
57.5°	3413.9	3401.4	3395.0	3376.0
60°	2768.0	2730.0	2704.6	2704.6
62.5°	2166.2	2121.9	2102.9	2096.6
65°	1627.8	1621.4	1583.5	1577.1
67.5°	1178.2	1152.8	1127.5	1133.8
70°	829.8	791.8	791.8	779.1
72.5°	538.4	519.3	513.0	513.0
75°	335.7	335.7	323.0	348.4
77.5°	221.6	221.6	215.4	221.6
80°	133.0	133.0	133.0	126.6
82.5°	82.3	88.7	82.3	82.3
85°	44.3	50.7	38.0	57.0
87.5°	25.3	31.6	25.3	31.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)