

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: P249099

Luminaire Tested: **LD8B200D010 ER8B200830 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249099
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200830 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21073.0 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

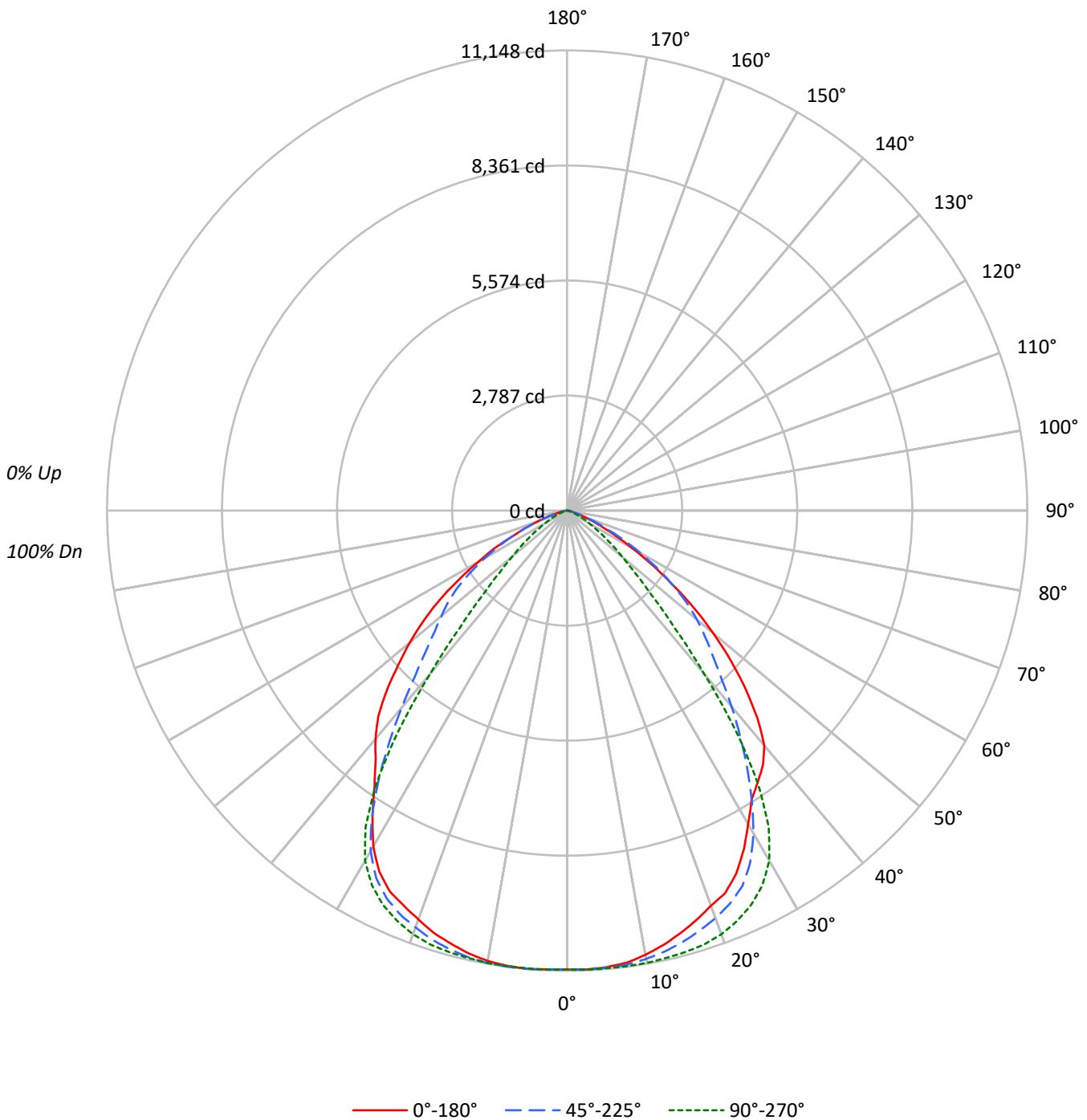
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	90					90			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79					79			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62					62			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55					55			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50					50			
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45					45			
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41					41			
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37					37			
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	342854	342854	342854
5°	343609	344535	344906
10°	342162	348331	346837
15°	338373	353425	346760
20°	334309	358393	345864
25°	329969	358808	346216
30°	312171	348718	334482
35°	302848	303070	306220
40°	299099	208524	290690
45°	266509	125184	270154
50°	221601	83314	238780
55°	166198	57433	202455
60°	112627	38274	152751
65°	67938	24823	104938
70°	37669	13452	64563
75°	17073	5695	33419
80°	14828	6357	23316
85°	16912	8421	23245



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1061.1	5.0
10°-20°	3081.6	14.6
20°-30°	4677.3	22.2
30°-40°	4912.5	23.3
40°-50°	3683.1	17.5
50°-60°	2363.2	11.2
60°-70°	1010.9	4.8
70°-80°	238.8	1.1
80°-90°	44.4	0.2
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°	8820.0	41.9
0°-40°	13732.5	65.2
0°-60°	19778.8	93.9
0°-90°	21073.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21073.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11118	11118	11118	11118	11118	
5°	11101	11118	11130	11148	11142	###
15°	10599	10820	11071	10999	10862	2990
25°	9698	10038	10546	10355	10176	4431
35°	8045	7597	8051	7955	8135	5049
45°	6111	4995	2871	4852	6195	4680
55°	3091	3091	1068	3223	3766	2804
65°	931	1098	340	1414	1438	994
75°	143	167	48	286	280	209
85°	48	30	24	48	66	50
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°	11118.5	11118.5	11118.5	11118.5	11118.5	11118.5	11118.5	11118.5	11118.5	11118.5	11118.5
2.5°	11124.5	11136.5	11130.5	11130.5	11124.5	11130.5	11130.5	11142.5	11142.5	11130.5	11124.5
5°	11100.6	11112.5	11112.5	11100.6	11100.6	11130.5	11112.5	11124.5	11124.5	11118.5	11118.5
7.5°	11047.0	11047.0	11070.8	11053.0	11053.0	11070.8	11064.8	11076.8	11088.7	11094.7	11094.7
10°	10927.5	10939.5	10945.5	10945.5	10951.5	10969.3	10981.3	11005.2	11017.0	11029.0	11035.0
12.5°	10778.4	10796.2	10802.2	10796.2	10814.2	10838.0	10867.9	10897.7	10915.7	10939.5	10957.5
15°	10599.3	10599.3	10611.2	10629.2	10641.2	10676.9	10706.7	10742.5	10790.3	10820.2	10850.0
17.5°	10402.4	10414.4	10432.2	10432.2	10456.1	10515.7	10533.7	10587.4	10641.2	10670.9	10730.7
20°	10187.6	10199.4	10217.4	10229.4	10259.1	10306.9	10342.7	10390.4	10450.2	10503.9	10563.5
22.5°	10020.4	9996.6	10008.4	10020.4	10050.3	10092.1	10133.9	10193.4	10253.2	10306.9	10366.6
25°	9698.1	9704.1	9722.0	9733.9	9769.8	9805.6	9853.3	9924.9	9978.6	10038.3	10103.9
27.5°	9262.5	9268.5	9298.3	9298.3	9328.1	9387.8	9417.6	9477.3	9549.0	9608.6	9686.3
30°	8767.2	8779.0	8779.0	8802.9	8820.8	8850.7	8880.5	8940.2	8976.0	9029.7	9137.2
32.5°	8313.6	8325.4	8319.4	8313.6	8295.6	8289.6	8283.7	8295.6	8307.6	8325.4	8367.2
35°	8045.0	8015.1	7991.3	7949.5	7901.8	7842.1	7788.3	7716.8	7651.1	7597.3	7537.7
37.5°	7788.3	7782.3	7746.6	7686.8	7591.3	7484.0	7358.7	7203.5	7048.3	6881.2	6720.1
40°	7430.3	7412.3	7382.5	7299.0	7191.5	7060.2	6893.2	6702.2	6451.4	6194.9	5932.3
42.5°	6821.5	6827.5	6791.7	6726.0	6624.6	6499.2	6326.1	6117.3	5848.8	5544.3	5204.2
45°	6111.3	6111.3	6099.4	6045.6	5974.1	5872.6	5741.3	5568.2	5305.7	4995.2	4631.2
47.5°	5371.3	5377.2	5359.3	5347.4	5317.5	5251.9	5156.4	5025.2	4840.1	4541.7	4177.6
50°	4619.3	4619.3	4649.1	4643.2	4643.2	4619.3	4577.6	4499.9	4338.8	4100.1	3760.0
52.5°	3867.3	3879.3	3897.2	3921.0	3950.8	3998.6	3950.8	3915.0	3813.6	3628.5	3336.2
55°	3091.4	3103.4	3133.2	3175.0	3210.9	3258.6	3270.5	3270.5	3216.7	3091.4	2870.6
57.5°	2429.1	2411.1	2435.0	2470.8	2518.6	2566.3	2602.1	2643.9	2637.9	2554.3	2375.3
60°	1826.2	1832.2	1850.0	1886.0	1921.7	1963.5	2011.3	2047.0	2065.0	2023.2	1909.8
62.5°	1330.9	1330.9	1354.7	1390.5	1408.5	1468.2	1498.0	1515.9	1533.7	1527.8	1456.2
65°	931.1	942.9	954.9	972.8	990.7	1026.4	1044.4	1080.2	1092.2	1098.1	1044.4
67.5°	656.5	638.6	650.6	662.4	680.4	704.3	740.1	740.1	757.9	757.9	722.1
70°	417.8	417.8	423.8	441.6	453.6	459.6	471.5	483.4	501.3	495.3	495.3
72.5°	280.5	274.5	280.5	286.5	292.5	310.3	310.3	316.3	328.3	334.3	310.3
75°	143.3	149.2	161.1	155.2	173.0	161.1	167.1	185.0	179.0	167.1	167.1
77.5°	119.3	119.3	119.3	113.5	125.3	125.3	119.3	131.3	125.3	125.3	119.3
80°	83.5	89.5	83.5	77.5	83.5	77.5	77.5	77.5	77.5	77.5	71.6
82.5°	65.7	53.7	59.7	53.7	59.7	59.7	53.7	47.8	47.8	53.7	47.8
85°	47.8	35.8	41.8	41.8	35.8	35.8	35.8	35.8	35.8	29.8	29.8
87.5°	29.8	18.0	18.0	18.0	23.8	23.8	23.8	18.0	23.8	23.8	12.0
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°	11118.5	11118.5	11118.5	11118.5	11118.5	11118.5	11118.5	11118.5	11118.5	11118.5	11118.5
2.5°	11136.5	11130.5	11142.5	11136.5	11136.5	11130.5	11136.5	11130.5	11142.5	11118.5	11124.5
5°	11136.5	11124.5	11130.5	11136.5	11142.5	11130.5	11130.5	11130.5	11142.5	11130.5	11136.5
7.5°	11112.5	11106.6	11124.5	11136.5	11130.5	11124.5	11136.5	11130.5	11142.5	11136.5	11148.3
10°	11064.8	11070.8	11082.8	11100.6	11106.6	11112.5	11124.5	11124.5	11142.5	11118.5	11130.5
12.5°	10993.2	11017.0	11047.0	11058.8	11082.8	11082.8	11094.7	11100.6	11112.5	11106.6	11124.5
15°	10903.7	10933.5	10969.3	10999.2	11029.0	11047.0	11064.8	11070.8	11088.7	11070.8	11076.8
17.5°	10796.2	10832.0	10885.8	10921.5	10969.3	10987.2	11011.1	11023.0	11041.0	11029.0	11035.0
20°	10647.0	10688.9	10748.5	10802.2	10832.0	10873.8	10903.7	10921.5	10933.5	10921.5	10927.5
22.5°	10438.2	10497.9	10575.4	10617.2	10676.9	10712.7	10718.7	10760.5	10790.3	10760.5	10772.4
25°	10193.4	10253.2	10312.9	10402.4	10456.1	10497.9	10539.7	10545.7	10575.4	10569.5	10563.5
27.5°	9787.6	9865.3	9966.7	10038.3	10109.9	10175.6	10223.4	10235.2	10265.1	10253.2	10259.1
30°	9232.6	9316.2	9411.7	9525.1	9626.5	9692.1	9751.8	9793.6	9823.4	9805.6	9799.6
32.5°	8444.9	8528.4	8629.9	8743.2	8862.7	8958.0	9029.7	9083.5	9119.2	9107.3	9077.5
35°	7543.7	7567.5	7633.2	7722.8	7824.1	7925.6	7991.3	8050.9	8092.7	8104.6	8104.6
37.5°	6618.6	6541.1	6493.3	6493.3	6552.9	6594.7	6654.4	6690.2	6755.9	6779.7	6797.7
40°	5723.3	5544.3	5377.2	5251.9	5168.4	5162.4	5162.4	5180.2	5240.0	5317.5	5389.2
42.5°	4923.7	4637.2	4380.6	4147.8	3980.8	3885.3	3843.5	3849.5	3897.2	3968.8	4088.1
45°	4285.1	3927.0	3604.7	3324.2	3097.4	2948.2	2876.6	2870.6	2906.4	2990.0	3121.4
47.5°	3789.8	3407.7	3043.7	2721.4	2476.8	2315.6	2232.1	2208.3	2232.1	2309.6	2464.8
50°	3378.0	2984.1	2608.1	2273.8	2011.3	1844.2	1766.5	1736.7	1766.5	1832.2	1987.3
52.5°	2995.9	2590.1	2238.0	1915.8	1635.2	1492.0	1408.5	1390.5	1408.5	1486.0	1611.4
55°	2554.3	2208.3	1862.0	1539.7	1295.1	1151.9	1086.2	1068.3	1086.2	1157.9	1289.1
57.5°	2118.7	1820.3	1515.9	1223.4	1014.6	889.2	829.6	805.6	847.4	895.2	1050.4
60°	1712.8	1474.2	1217.4	960.9	787.8	674.4	626.6	620.6	632.6	692.3	799.7
62.5°	1342.9	1145.9	942.9	734.1	590.8	543.1	483.4	477.5	489.3	525.1	608.8
65°	966.9	841.6	686.3	537.1	423.8	358.1	334.3	340.2	352.1	376.0	453.6
67.5°	674.4	584.8	477.5	376.0	292.5	262.6	238.8	232.8	238.8	280.5	322.3
70°	453.6	399.8	322.3	286.5	203.0	161.1	167.1	149.2	173.0	173.0	208.8
72.5°	298.3	262.6	214.8	167.1	143.3	113.5	113.5	107.5	119.3	125.3	155.2
75°	155.2	119.3	119.3	83.5	59.7	29.8	53.7	47.8	41.8	47.8	59.7
77.5°	107.5	89.5	83.5	65.7	59.7	47.8	47.8	47.8	47.8	53.7	59.7
80°	65.7	65.7	47.8	41.8	35.8	29.8	35.8	35.8	35.8	35.8	41.8
82.5°	41.8	35.8	35.8	29.8	29.8	23.8	23.8	23.8	23.8	23.8	35.8
85°	35.8	23.8	23.8	18.0	23.8	41.8	18.0	23.8	23.8	23.8	18.0
87.5°	12.0	18.0	18.0	18.0	12.0	6.0	12.0	18.0	18.0	29.8	23.8
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°	11118.5	11118.5	11118.5	11118.5	11118.5	11118.5	11118.5	11118.5	11118.5	11118.5	11118.5
2.5°	11136.5	11142.5	11142.5	11136.5	11136.5	11124.5	11148.3	11130.5	11136.5	11160.3	11142.5
5°	11148.3	11154.3	11154.3	11148.3	11148.3	11148.3	11154.3	11154.3	11148.3	11142.5	11154.3
7.5°	11172.3	11166.3	11166.3	11154.3	11154.3	11142.5	11154.3	11136.5	11148.3	11136.5	11154.3
10°	11142.5	11148.3	11142.5	11136.5	11136.5	11130.5	11130.5	11112.5	11118.5	11100.6	11112.5
12.5°	11124.5	11118.5	11118.5	11106.6	11094.7	11082.8	11076.8	11058.8	11058.8	11017.0	11035.0
15°	11076.8	11082.8	11064.8	11041.0	11029.0	10999.2	10987.2	10963.3	10939.5	10909.7	10915.7
17.5°	11035.0	11017.0	10993.2	10969.3	10921.5	10897.7	10873.8	10838.0	10826.0	10790.3	10778.4
20°	10909.7	10897.7	10867.9	10826.0	10796.2	10742.5	10718.7	10682.9	10653.0	10617.2	10599.3
22.5°	10748.5	10736.5	10700.7	10659.0	10611.2	10587.4	10563.5	10497.9	10468.0	10432.2	10426.2
25°	10545.7	10527.7	10491.9	10444.2	10420.2	10354.6	10330.7	10283.0	10271.1	10235.2	10229.4
27.5°	10235.2	10211.4	10169.6	10109.9	10068.1	10026.4	10002.6	9966.7	9954.8	9918.9	9913.1
30°	9769.8	9739.9	9656.3	9632.5	9560.8	9519.1	9519.1	9471.3	9477.3	9453.5	9453.5
32.5°	9035.7	8988.0	8922.2	8874.5	8826.7	8802.9	8802.9	8785.0	8797.0	8797.0	8808.9
35°	8062.9	7997.3	7961.4	7931.6	7931.6	7955.4	8027.1	8045.0	8080.8	8110.6	8134.6
37.5°	6815.5	6809.6	6851.4	6887.2	6976.7	7078.2	7203.5	7311.0	7412.3	7484.0	7555.6
40°	5466.8	5616.0	5735.3	5902.5	6039.6	6236.6	6463.4	6648.4	6821.5	6946.9	7078.2
42.5°	4267.1	4458.1	4708.9	4953.5	5198.2	5466.8	5765.2	6021.8	6248.6	6421.6	6558.9
45°	3324.2	3586.8	3891.2	4201.6	4517.9	4852.1	5162.4	5425.0	5663.7	5842.8	5980.0
47.5°	2679.6	2966.1	3312.2	3652.5	4010.6	4362.6	4708.9	4935.6	5132.5	5275.8	5401.2
50°	2214.1	2518.6	2882.6	3270.5	3628.5	3980.8	4279.1	4499.9	4661.1	4786.4	4863.9
52.5°	1850.0	2172.3	2560.3	2948.2	3306.3	3628.5	3897.2	4064.3	4195.6	4285.1	4356.6
55°	1527.8	1838.2	2202.3	2566.3	2918.4	3222.7	3443.5	3569.0	3670.3	3724.0	3765.8
57.5°	1247.4	1533.7	1868.0	2202.3	2506.6	2757.3	2930.4	3055.7	3103.4	3145.2	3139.2
60°	978.8	1247.4	1551.7	1838.2	2100.8	2303.6	2429.1	2500.6	2536.4	2554.3	2542.4
62.5°	769.9	1014.6	1247.4	1498.0	1689.0	1862.0	1981.5	1981.5	1999.3	2005.3	2023.2
65°	572.9	757.9	960.9	1145.9	1301.0	1414.4	1480.2	1498.0	1521.9	1515.9	1504.0
67.5°	423.8	561.0	710.1	847.4	954.9	1026.4	1074.2	1116.1	1110.1	1098.1	1092.2
70°	292.5	382.0	513.3	596.8	674.4	746.1	757.9	763.9	769.9	775.9	763.9
72.5°	203.0	268.5	340.2	411.8	459.6	489.3	519.3	525.1	525.1	525.1	519.3
75°	101.5	137.3	203.0	232.8	274.5	286.5	310.3	310.3	328.3	304.3	298.3
77.5°	89.5	107.5	143.3	167.1	185.0	203.0	208.8	226.8	220.8	208.8	214.8
80°	53.7	65.7	89.5	101.5	125.3	131.3	137.3	143.3	137.3	143.3	143.3
82.5°	41.8	47.8	59.7	59.7	77.5	77.5	83.5	83.5	89.5	89.5	89.5
85°	23.8	41.8	35.8	71.6	47.8	47.8	59.7	71.6	59.7	59.7	71.6
87.5°	23.8	23.8	18.0	23.8	23.8	23.8	29.8	35.8	35.8	41.8	35.8
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: P249099

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBDW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	11118.5	11118.5	11118.5	11118.5
2.5°	11136.5	11148.3	11130.5	11124.5
5°	11154.3	11154.3	11142.5	11142.5
7.5°	11154.3	11154.3	11136.5	11124.5
10°	11106.6	11106.6	11088.7	11076.8
12.5°	11017.0	11017.0	11011.1	10993.2
15°	10903.7	10903.7	10879.8	10862.0
17.5°	10748.5	10760.5	10730.7	10730.7
20°	10581.4	10575.4	10551.6	10539.7
22.5°	10408.4	10396.4	10390.4	10354.6
25°	10223.4	10211.4	10193.4	10175.6
27.5°	9907.1	9901.1	9883.1	9859.3
30°	9423.6	9417.6	9393.8	9393.8
32.5°	8797.0	8791.0	8767.2	8773.1
35°	8146.4	8170.3	8158.4	8134.6
37.5°	7603.3	7621.3	7633.2	7621.3
40°	7149.7	7203.5	7209.5	7221.4
42.5°	6666.4	6737.9	6761.9	6773.7
45°	6087.4	6153.1	6206.8	6194.9
47.5°	5496.5	5544.3	5592.1	5556.3
50°	4929.7	4959.5	4977.4	4977.4
52.5°	4392.6	4392.6	4386.6	4392.6
55°	3777.8	3777.8	3754.0	3765.8
57.5°	3133.2	3145.2	3127.2	3097.4
60°	2536.4	2506.6	2494.6	2476.8
62.5°	1975.5	1975.5	1933.7	1987.3
65°	1480.2	1462.2	1444.2	1438.2
67.5°	1074.2	1068.3	1050.4	1044.4
70°	757.9	734.1	728.1	716.1
72.5°	507.3	507.3	495.3	495.3
75°	310.3	280.5	274.5	280.5
77.5°	214.8	208.8	208.8	203.0
80°	143.3	137.3	149.2	131.3
82.5°	89.5	95.5	89.5	95.5
85°	59.7	71.6	65.7	65.7
87.5°	35.8	35.8	35.8	35.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)