

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: P250259

Luminaire Tested: **LD8B200D010 ER8B200935 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250259
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13955)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200935 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18801.0 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

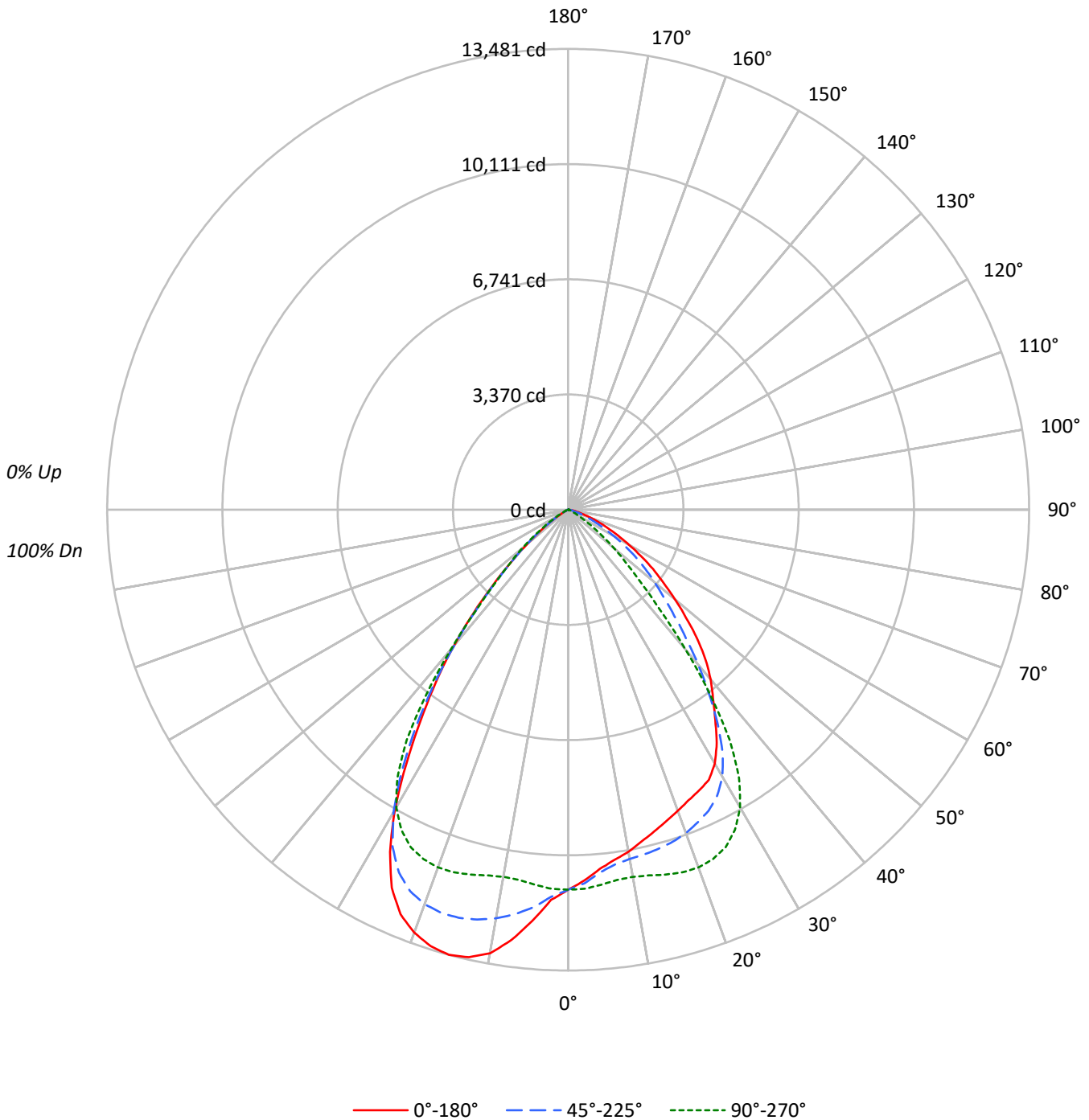
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	106	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82					82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73					73			
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66					66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60					60			
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54					54			
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49					49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45					45			
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42					42			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38					38			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	342810	342810	342810
5°	326594	340904	373712
10°	318171	341429	412514
15°	310957	352745	430359
20°	307532	365490	431974
25°	308252	370652	415193
30°	305392	357926	361070
35°	282192	309763	282580
40°	260769	214763	209538
45°	232206	129589	133884
50°	195384	83487	75763
55°	162548	45799	34639
60°	126873	19859	10891
65°	93629	9858	5305
70°	65104	6095	2335
75°	39615	1251	0
80°	28590	1865	0
85°	18398	1804	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1068.7	5.7
10°-20°	3198.6	17.0
20°-30°	4898.3	26.1
30°-40°	4802.0	25.5
40°-50°	2891.7	15.4
50°-60°	1331.0	7.1
60°-70°	467.6	2.5
70°-80°	122.3	0.7
80°-90°	20.8	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°	9165.6	48.8
0°-40°	13967.6	74.3
0°-60°	18190.3	96.8
0°-90°	18801.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18801.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11117	11117	11117	11117	11117	
5°	10551	10650	11013	11673	12073	997
15°	9740	10265	11050	12359	13481	2752
25°	9060	9715	10894	11714	12203	4173
35°	7496	7600	8229	7756	7507	4695
45°	5325	4384	2972	2992	3070	4083
55°	3024	2395	852	670	644	2698
65°	1283	888	135	68	73	1307
75°	332	192	10	0	0	403
85°	52	26	5	0	0	71
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°	11117.1	11117.1	11117.1	11117.1	11117.1	11117.1	11117.1	11117.1	11117.1	11117.1	11117.1
2.5°	10857.3	10867.7	10867.7	10867.7	10888.5	10893.8	10888.5	10893.8	10904.1	10940.5	10956.1
5°	10550.9	10535.2	10545.7	10540.4	10566.5	10582.1	10571.6	10587.2	10623.6	10649.6	10675.5
7.5°	10332.8	10332.8	10332.8	10343.0	10358.6	10389.8	10384.7	10395.0	10431.3	10467.7	10504.0
10°	10161.3	10156.1	10156.1	10182.0	10202.7	10239.1	10249.6	10280.8	10327.4	10374.2	10415.7
12.5°	9937.8	9943.2	9969.0	9995.1	10041.7	10098.8	10130.0	10171.7	10244.4	10322.3	10369.1
15°	9740.5	9745.6	9766.5	9818.3	9875.6	9943.2	10010.5	10078.1	10166.4	10265.2	10348.4
17.5°	9548.2	9553.4	9569.0	9626.3	9699.0	9787.3	9865.1	9953.4	10067.8	10182.0	10285.9
20°	9371.6	9366.5	9392.3	9444.3	9538.0	9620.9	9699.0	9802.9	9927.6	10067.8	10187.1
22.5°	9200.1	9200.1	9226.2	9278.2	9361.3	9444.3	9527.5	9636.5	9761.2	9896.3	10036.6
25°	9059.8	9054.7	9091.1	9117.1	9179.4	9262.6	9350.9	9439.2	9563.8	9714.6	9849.5
27.5°	8909.3	8904.2	8909.3	8940.5	8997.6	9059.8	9127.4	9205.5	9309.4	9434.0	9563.8
30°	8576.8	8581.9	8581.9	8608.0	8639.2	8706.6	8743.0	8821.0	8914.4	9018.4	9132.8
32.5°	8083.3	8088.4	8088.4	8098.9	8124.8	8156.0	8187.2	8244.3	8317.0	8405.3	8509.2
35°	7496.3	7496.3	7491.0	7496.3	7512.0	7512.0	7537.8	7512.0	7548.3	7600.3	7678.1
37.5°	6956.0	6945.5	6935.3	6924.8	6909.2	6883.3	6846.9	6784.5	6768.9	6748.2	6753.3
40°	6478.1	6473.0	6441.7	6415.7	6363.7	6301.5	6213.2	6104.1	6015.8	5911.9	5823.6
42.5°	5948.2	5942.9	5917.0	5870.2	5813.1	5719.7	5579.4	5434.0	5257.4	5101.5	4940.5
45°	5324.7	5340.3	5304.0	5252.0	5184.4	5096.1	4940.5	4763.6	4587.0	4384.5	4181.8
47.5°	4675.3	4670.2	4644.3	4613.1	4556.0	4467.7	4363.8	4171.5	3984.4	3797.6	3589.7
50°	4072.8	4052.0	4041.5	4010.5	3974.2	3901.5	3792.2	3636.3	3470.2	3293.6	3101.3
52.5°	3501.4	3501.4	3475.3	3454.6	3423.4	3366.3	3272.8	3148.2	3007.9	2841.5	2639.1
55°	3023.5	3013.0	2987.2	2961.1	2929.9	2893.5	2810.5	2706.6	2555.9	2394.9	2218.2
57.5°	2514.4	2509.0	2498.8	2467.6	2452.0	2415.6	2322.2	2218.2	2088.4	1948.2	1802.6
60°	2057.2	2036.5	2015.5	1994.8	1968.9	1932.6	1870.1	1781.8	1672.8	1548.1	1402.7
62.5°	1646.9	1677.9	1615.7	1615.7	1563.7	1532.5	1475.4	1423.4	1309.0	1194.9	1070.2
65°	1283.2	1283.2	1257.1	1236.3	1205.1	1168.8	1111.7	1059.7	976.5	888.2	799.9
67.5°	981.9	976.5	950.7	929.9	903.8	883.1	841.6	779.2	717.0	644.3	571.3
70°	722.1	717.0	711.6	675.3	654.5	628.7	597.4	555.9	509.1	457.2	389.6
72.5°	519.4	519.4	504.0	488.4	467.6	446.7	415.7	389.6	348.1	311.8	264.9
75°	332.5	327.4	327.4	301.3	301.3	270.1	249.3	233.7	213.0	192.2	150.7
77.5°	239.1	233.7	228.6	218.1	207.8	197.4	181.8	161.0	145.4	124.7	109.1
80°	161.0	150.7	145.4	145.4	129.8	124.7	129.8	98.8	93.4	77.8	67.6
82.5°	98.8	98.8	93.4	93.4	88.3	83.2	67.6	67.6	62.4	57.1	46.8
85°	52.0	67.6	46.8	52.0	46.8	52.0	46.8	36.4	31.2	25.9	25.9
87.5°	31.2	20.7	20.7	31.2	25.9	20.7	20.7	20.7	15.6	10.5	10.5
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°	11117.1	11117.1	11117.1	11117.1	11117.1	11117.1	11117.1	11117.1	11117.1	11117.1	11117.1
2.5°	10945.8	10982.1	10976.8	11023.6	11039.2	11075.6	11075.6	11101.5	11117.1	11153.4	11184.6
5°	10686.0	10743.1	10758.7	10815.8	10862.6	10919.7	10956.1	11013.2	11065.1	11143.2	11215.9
7.5°	10525.0	10571.6	10602.8	10670.4	10722.3	10784.6	10847.0	10924.8	10997.5	11091.2	11195.1
10°	10446.9	10509.4	10556.0	10623.6	10686.0	10753.6	10815.8	10904.1	10987.3	11106.8	11221.0
12.5°	10426.2	10498.9	10556.0	10649.6	10711.9	10784.6	10857.3	10956.1	11044.4	11169.0	11299.0
15°	10426.2	10525.0	10602.8	10706.7	10779.4	10872.9	10950.9	11049.5	11148.3	11278.1	11402.7
17.5°	10405.5	10525.0	10623.6	10743.1	10836.5	10930.2	11028.8	11122.4	11226.1	11351.0	11491.1
20°	10322.3	10473.0	10592.3	10732.6	10831.4	10935.3	11034.1	11137.8	11247.1	11376.9	11496.4
22.5°	10176.9	10353.5	10488.6	10639.2	10753.6	10857.3	10956.1	11060.0	11179.5	11304.2	11428.8
25°	9984.6	10150.8	10296.4	10452.1	10566.5	10680.7	10774.3	10893.8	11002.9	11122.4	11221.0
27.5°	9693.6	9870.2	10010.5	10171.7	10275.4	10384.7	10462.5	10561.3	10665.3	10763.8	10841.9
30°	9257.4	9418.4	9563.8	9709.2	9813.2	9891.2	9974.2	10052.2	10119.8	10187.1	10254.7
32.5°	8618.3	8763.9	8904.2	9039.1	9122.3	9189.8	9252.1	9298.9	9335.3	9371.6	9376.7
35°	7740.5	7859.8	7948.2	8067.7	8145.7	8208.0	8208.0	8228.7	8223.6	8208.0	8192.3
37.5°	6758.6	6805.3	6841.6	6888.4	6893.6	6893.6	6862.6	6836.5	6795.0	6784.5	6753.3
40°	5735.3	5672.8	5626.0	5563.8	5527.4	5449.4	5382.0	5335.2	5267.6	5257.4	5246.9
42.5°	4763.6	4618.2	4488.4	4379.4	4254.7	4145.5	4046.9	3974.2	3922.2	3916.9	3922.2
45°	3974.2	3807.8	3615.6	3465.1	3324.8	3189.7	3059.9	2971.6	2924.7	2914.2	2924.7
47.5°	3376.8	3184.5	2997.4	2825.9	2675.4	2524.7	2394.9	2275.3	2218.2	2202.6	2197.5
50°	2904.0	2706.6	2509.0	2332.4	2166.3	2015.5	1854.5	1740.3	1667.6	1641.5	1620.8
52.5°	2441.7	2265.1	2062.4	1880.6	1714.2	1537.6	1371.5	1241.5	1168.8	1137.8	1116.8
55°	2036.5	1859.9	1672.8	1496.1	1319.5	1142.9	976.5	851.9	774.1	737.7	711.6
57.5°	1625.9	1459.8	1298.8	1122.2	976.5	805.3	638.9	529.9	462.3	420.8	400.1
60°	1257.1	1127.3	987.0	841.6	701.4	561.1	425.9	322.0	270.1	239.1	213.0
62.5°	950.7	841.6	748.0	623.3	514.3	394.7	291.0	207.8	161.0	135.1	124.7
65°	685.7	602.6	519.4	441.6	363.7	275.4	197.4	135.1	93.4	77.8	72.7
67.5°	488.4	420.8	358.4	306.4	249.3	197.4	140.3	93.4	72.7	62.4	57.1
70°	342.8	291.0	249.3	202.7	166.1	129.8	109.1	67.6	41.5	46.8	36.4
72.5°	228.6	192.2	171.5	140.3	114.2	93.4	67.6	46.8	46.8	36.4	31.2
75°	124.7	114.2	88.3	67.6	57.1	52.0	20.7	10.5	5.1	15.6	5.1
77.5°	88.3	77.8	67.6	57.1	46.8	36.4	20.7	20.7	15.6	20.7	10.5
80°	57.1	46.8	41.5	41.5	25.9	15.6	10.5	10.5	15.6	5.1	5.1
82.5°	36.4	31.2	25.9	25.9	25.9	15.6	15.6	15.6	15.6	10.5	10.5
85°	20.7	15.6	10.5	10.5	5.1	10.5	0.0	5.1	5.1	0.0	0.0
87.5°	10.5	5.1	5.1	5.1	5.1	0.0	0.0	5.1	0.0	5.1	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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	11117.1	11117.1	11117.1	11117.1	11117.1	11117.1	11117.1	11117.1	11117.1	11117.1	11117.1
2.5°	11205.4	11226.1	11252.2	11273.0	11319.8	11330.0	11351.0	11371.7	11387.3	11402.7	11408.1
5°	11278.1	11356.1	11428.8	11506.7	11605.5	11673.0	11750.9	11818.4	11886.0	11943.1	11984.6
7.5°	11299.0	11418.4	11527.6	11662.5	11807.9	11932.8	12062.6	12192.4	12327.5	12431.5	12519.8
10°	11340.5	11485.9	11626.2	11787.2	11974.3	12140.4	12301.5	12472.9	12644.4	12789.8	12919.8
12.5°	11413.2	11574.2	11725.0	11901.6	12093.8	12280.7	12457.3	12649.6	12831.5	12992.5	13137.9
15°	11532.8	11683.3	11828.9	11995.0	12187.3	12358.8	12535.4	12722.3	12904.2	13070.4	13205.5
17.5°	11610.6	11750.9	11896.3	12047.0	12208.0	12363.9	12530.0	12696.4	12862.5	13013.3	13137.9
20°	11610.6	11745.7	11854.8	11989.9	12140.4	12275.6	12410.7	12556.1	12701.5	12826.2	12945.7
22.5°	11517.1	11646.9	11730.1	11834.0	11963.8	12078.2	12150.9	12311.9	12421.0	12530.0	12618.3
25°	11299.0	11392.5	11460.0	11532.8	11636.7	11714.5	11776.9	11870.4	11979.4	12021.1	12083.4
27.5°	10904.1	10971.7	11008.0	11023.6	11075.6	11117.1	11127.5	11169.0	11215.9	11226.1	11252.2
30°	10280.8	10285.9	10270.3	10265.2	10239.1	10208.1	10202.7	10197.6	10176.9	10156.1	10161.3
32.5°	9340.4	9314.5	9252.1	9184.7	9117.1	9044.4	9002.8	8950.8	8919.6	8888.6	8852.2
35°	8124.8	8062.6	7974.2	7891.1	7813.2	7755.9	7662.5	7631.3	7600.3	7558.6	7548.3
37.5°	6696.2	6659.9	6576.7	6514.4	6473.0	6446.9	6400.1	6369.0	6369.0	6353.4	6343.0
40°	5220.8	5210.5	5179.3	5194.9	5174.2	5184.4	5179.3	5168.8	5194.9	5194.9	5205.4
42.5°	3916.9	3922.2	3937.8	3948.1	3979.3	3984.4	4010.5	4010.5	4026.1	4041.5	4052.0
45°	2914.2	2935.2	2935.2	2955.9	2987.2	2992.3	3002.6	3007.9	3018.2	3044.3	3054.5
47.5°	2187.0	2192.2	2192.2	2197.5	2207.8	2218.2	2213.1	2218.2	2233.8	2223.4	2233.8
50°	1615.7	1620.8	1605.2	1589.6	1605.2	1605.2	1600.1	1584.5	1600.1	1579.3	1589.6
52.5°	1101.4	1096.1	1080.5	1085.8	1075.3	1070.2	1070.2	1059.7	1059.7	1059.7	1039.0
55°	696.2	696.2	685.7	685.7	680.6	670.1	665.0	659.7	654.5	649.4	649.4
57.5°	389.6	394.7	379.3	374.0	379.3	374.0	363.7	363.7	363.7	348.1	358.4
60°	213.0	207.8	202.7	197.4	192.2	197.4	197.4	187.1	187.1	187.1	192.2
62.5°	114.2	114.2	109.1	109.1	103.9	103.9	114.2	98.8	103.9	98.8	103.9
65°	62.4	77.8	57.1	57.1	72.7	67.6	62.4	62.4	67.6	57.1	62.4
67.5°	67.6	46.8	41.5	46.8	41.5	41.5	41.5	52.0	46.8	36.4	46.8
70°	31.2	36.4	36.4	25.9	41.5	20.7	36.4	20.7	31.2	25.9	31.2
72.5°	31.2	31.2	31.2	20.7	31.2	20.7	25.9	25.9	20.7	20.7	31.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	10.5	10.5	5.1	5.1	5.1	5.1	10.5	10.5	10.5	0.0	5.1
80°	10.5	10.5	0.0	5.1	0.0	0.0	5.1	0.0	5.1	0.0	10.5
82.5°	5.1	10.5	5.1	5.1	10.5	10.5	10.5	5.1	5.1	5.1	5.1
85°	0.0	5.1	0.0	0.0	0.0	0.0	10.5	0.0	0.0	0.0	5.1
87.5°	0.0	5.1	0.0	0.0	0.0	0.0	5.1	5.1	0.0	0.0	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: P250259

CATALOG NUMBER: LD8B200D010 ER8B200935 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	11117.1	11117.1	11117.1	11117.1
2.5°	11413.2	11418.4	11428.8	11423.7
5°	12015.8	12057.5	12078.2	12073.1
7.5°	12582.0	12654.9	12696.4	12696.4
10°	13018.4	13101.6	13163.8	13174.3
12.5°	13252.1	13345.8	13429.0	13408.0
15°	13319.7	13413.4	13496.3	13480.7
17.5°	13241.9	13335.3	13397.7	13387.3
20°	13028.9	13106.7	13169.2	13163.8
22.5°	12696.4	12764.0	12815.9	12810.6
25°	12135.3	12182.1	12223.6	12202.9
27.5°	11273.0	11288.6	11314.4	11283.4
30°	10124.9	10135.2	10145.7	10140.5
32.5°	8836.6	8831.3	8821.0	8810.5
35°	7532.7	7532.7	7537.8	7506.6
37.5°	6348.1	6343.0	6358.6	6343.0
40°	5215.7	5210.5	5231.3	5205.4
42.5°	4067.6	4083.2	4088.4	4088.4
45°	3059.9	3065.0	3070.1	3070.1
47.5°	2233.8	2239.0	2265.1	2233.8
50°	1579.3	1584.5	1589.6	1579.3
52.5°	1044.1	1049.5	1044.1	1028.5
55°	638.9	644.3	644.3	644.3
57.5°	342.8	348.1	348.1	342.8
60°	187.1	181.8	187.1	176.6
62.5°	98.8	109.1	103.9	93.4
65°	62.4	62.4	62.4	72.7
67.5°	52.0	41.5	46.8	36.4
70°	31.2	36.4	36.4	25.9
72.5°	25.9	25.9	25.9	31.2
75°	0.0	0.0	0.0	0.0
77.5°	10.5	10.5	10.5	5.1
80°	5.1	0.0	5.1	0.0
82.5°	5.1	5.1	10.5	5.1
85°	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)