

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: P250217

Luminaire Tested: **LD8B200D010 ER8B200830 8LBSW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250217  
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 ER8B200830 8LBSW0WH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 3000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21201.0 lumens  
Efficiency: N/A  
Efficacy: 94.9 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

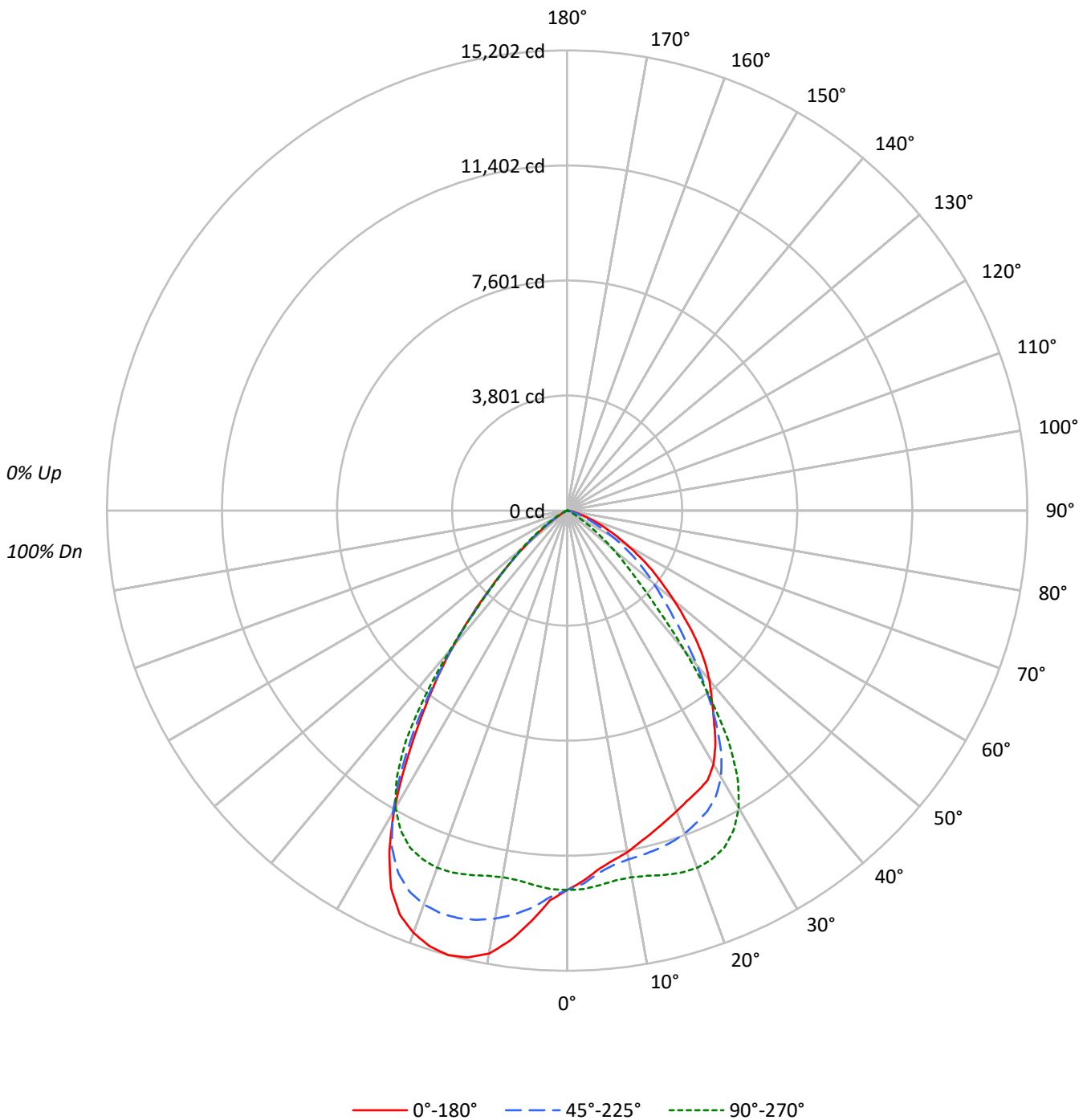
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	386570	386570	386570
5°	368283	384419	421418
10°	358786	385013	465171
15°	350651	397774	485297
20°	346789	412147	487117
25°	347604	417969	468192
30°	344377	403616	407163
35°	318218	349304	318651
40°	294055	242176	236287
45°	261847	146130	150975
50°	220325	94147	85435
55°	183300	51643	39058
60°	143068	22393	12285
65°	105580	11120	5983
70°	73417	6870	2633
75°	44666	1406	0
80°	32248	2095	0
85°	20733	2052	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1205.2	5.7
10°-20°	3606.9	17.0
20°-30°	5523.6	26.1
30°-40°	5414.9	25.5
40°-50°	3260.9	15.4
50°-60°	1500.9	7.1
60°-70°	527.3	2.5
70°-80°	137.9	0.7
80°-90°	23.5	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°	10335.6	48.8
0°-40°	15750.6	74.3
0°-60°	20512.4	96.8
0°-90°	21201.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21201.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	12536	12536	12536	12536	12536	
5°	11898	12009	12419	13163	13614	###
15°	10984	11576	12460	13936	15202	3103
25°	10216	10955	12284	13210	13761	4705
35°	8453	8570	9279	8746	8465	5294
45°	6004	4944	3351	3374	3462	4604
55°	3410	2701	961	756	726	3042
65°	1447	1002	152	76	82	1474
75°	375	217	12	0	0	455
85°	59	29	6	0	0	81
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°	12536.2	12536.2	12536.2	12536.2	12536.2	12536.2	12536.2	12536.2	12536.2	12536.2	12536.2
2.5°	12243.2	12255.0	12255.0	12255.0	12278.4	12284.5	12278.4	12284.5	12296.0	12337.0	12354.6
5°	11897.7	11880.1	11891.9	11885.9	11915.3	11932.9	11921.1	11938.7	11979.7	12009.1	12038.3
7.5°	11651.8	11651.8	11651.8	11663.3	11680.9	11716.1	11710.4	11721.9	11762.9	11803.9	11844.9
10°	11458.4	11452.6	11452.6	11481.8	11505.2	11546.1	11558.0	11593.2	11645.7	11698.5	11745.3
12.5°	11206.4	11212.4	11241.6	11271.0	11323.6	11388.0	11423.2	11470.2	11552.2	11639.9	11692.7
15°	10983.9	10989.6	11013.3	11071.6	11136.2	11212.4	11288.4	11364.6	11464.2	11575.6	11669.4
17.5°	10767.1	10772.9	10790.5	10855.1	10937.1	11036.7	11124.4	11224.0	11353.0	11481.8	11599.0
20°	10567.9	10562.1	10591.3	10649.9	10755.5	10849.1	10937.1	11054.3	11194.8	11353.0	11487.6
22.5°	10374.5	10374.5	10404.0	10462.5	10556.3	10649.9	10743.7	10866.7	11007.2	11159.6	11317.8
25°	10216.4	10210.6	10251.6	10281.0	10351.1	10444.9	10544.5	10644.1	10784.7	10954.7	11106.8
27.5°	10046.6	10040.8	10046.6	10081.8	10146.2	10216.4	10292.6	10380.6	10497.7	10638.3	10784.7
30°	9671.7	9677.4	9677.4	9706.9	9742.1	9818.0	9859.0	9947.0	10052.4	10169.6	10298.6
32.5°	9115.2	9120.9	9120.9	9132.8	9161.9	9197.1	9232.3	9296.7	9378.7	9478.3	9595.5
35°	8453.3	8453.3	8447.2	8453.3	8470.9	8470.9	8500.0	8470.9	8511.9	8570.5	8658.2
37.5°	7844.0	7832.1	7820.6	7808.7	7791.1	7762.0	7721.0	7650.6	7633.0	7609.6	7615.4
40°	7305.0	7299.3	7264.1	7234.6	7176.0	7105.9	7006.3	6883.3	6783.7	6666.6	6567.0
42.5°	6707.5	6701.5	6672.3	6619.5	6555.2	6449.8	6291.6	6127.6	5928.5	5752.7	5571.1
45°	6004.4	6022.0	5981.0	5922.4	5846.3	5746.7	5571.1	5371.7	5172.6	4944.2	4715.6
47.5°	5272.1	5266.4	5237.2	5202.0	5137.6	5038.0	4920.8	4704.1	4493.1	4282.3	4048.0
50°	4592.7	4569.3	4557.5	4522.5	4481.5	4399.5	4276.3	4100.5	3913.2	3714.0	3497.2
52.5°	3948.4	3948.4	3919.0	3895.6	3860.4	3796.0	3690.6	3550.0	3391.9	3204.3	2975.9
55°	3409.5	3397.7	3368.5	3339.1	3303.9	3262.9	3169.3	3052.1	2882.1	2700.6	2501.4
57.5°	2835.4	2829.3	2817.8	2782.6	2765.0	2724.0	2618.6	2501.4	2355.0	2196.9	2032.7
60°	2319.8	2296.5	2272.8	2249.4	2220.3	2179.3	2108.9	2009.3	1886.3	1745.7	1581.8
62.5°	1857.1	1892.1	1821.9	1821.9	1763.3	1728.1	1663.7	1605.2	1476.2	1347.4	1206.8
65°	1447.0	1447.0	1417.6	1394.2	1359.0	1318.0	1253.6	1195.0	1101.2	1001.6	902.0
67.5°	1107.2	1101.2	1072.0	1048.6	1019.2	995.8	949.1	878.7	808.5	726.5	644.3
70°	814.3	808.5	802.5	761.5	738.1	708.9	673.7	626.9	574.1	515.5	439.3
72.5°	585.7	585.7	568.3	550.7	527.3	503.7	468.7	439.3	392.5	351.6	298.8
75°	374.9	369.2	369.2	339.7	339.7	304.5	281.1	263.5	240.2	216.8	170.0
77.5°	269.6	263.5	257.8	245.9	234.4	222.6	205.0	181.6	164.0	140.6	123.0
80°	181.6	170.0	164.0	164.0	146.4	140.6	146.4	111.4	105.4	87.8	76.2
82.5°	111.4	111.4	105.4	105.4	99.6	93.8	76.2	76.2	70.4	64.4	52.8
85°	58.6	76.2	52.8	58.6	52.8	58.6	52.8	41.0	35.2	29.2	29.2
87.5°	35.2	23.4	23.4	35.2	29.2	23.4	23.4	23.4	17.6	11.8	11.8
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: P250217

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBSW0WH

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	12536.2	12536.2	12536.2	12536.2	12536.2	12536.2	12536.2	12536.2	12536.2	12536.2	12536.2
2.5°	12343.1	12384.0	12378.0	12430.8	12448.4	12489.4	12489.4	12518.6	12536.2	12577.2	12612.4
5°	12050.1	12114.5	12132.1	12196.5	12249.3	12313.6	12354.6	12419.0	12477.6	12565.6	12647.6
7.5°	11868.5	11921.1	11956.3	12032.5	12091.1	12161.3	12231.7	12319.4	12401.4	12507.0	12624.2
10°	11780.5	11850.9	11903.5	11979.7	12050.1	12126.3	12196.5	12296.0	12389.8	12524.6	12653.4
12.5°	11757.1	11839.1	11903.5	12009.1	12079.3	12161.3	12243.2	12354.6	12454.2	12594.8	12741.4
15°	11757.1	11868.5	11956.3	12073.5	12155.5	12260.8	12348.8	12460.0	12571.4	12717.8	12858.3
17.5°	11733.7	11868.5	11979.7	12114.5	12219.8	12325.5	12436.6	12542.2	12659.2	12800.0	12957.9
20°	11639.9	11809.9	11944.5	12102.7	12214.1	12331.2	12442.6	12559.6	12682.8	12829.2	12963.9
22.5°	11476.0	11675.1	11827.5	11997.3	12126.3	12243.2	12354.6	12471.8	12606.6	12747.2	12887.8
25°	11259.2	11446.6	11610.8	11786.3	11915.3	12044.1	12149.7	12284.5	12407.4	12542.2	12653.4
27.5°	10931.0	11130.2	11288.4	11470.2	11587.1	11710.4	11798.1	11909.5	12026.7	12137.9	12225.9
30°	10439.2	10620.7	10784.7	10948.6	11065.8	11153.8	11247.4	11335.4	11411.6	11487.6	11563.7
32.5°	9718.4	9882.6	10040.8	10193.0	10286.8	10363.0	10433.1	10485.9	10526.9	10567.9	10573.7
35°	8728.6	8863.2	8962.8	9097.5	9185.6	9255.7	9255.7	9279.1	9273.3	9255.7	9238.1
37.5°	7621.4	7674.0	7715.0	7767.8	7773.5	7773.5	7738.6	7709.2	7662.4	7650.6	7615.4
40°	6467.4	6397.0	6344.2	6274.0	6233.0	6145.0	6069.1	6016.2	5940.1	5928.5	5916.7
42.5°	5371.7	5207.8	5061.4	4938.4	4797.9	4674.6	4563.5	4481.5	4422.9	4416.9	4422.9
45°	4481.5	4293.9	4077.1	3907.4	3749.2	3596.8	3450.5	3350.9	3298.1	3286.3	3298.1
47.5°	3807.8	3591.0	3380.1	3186.7	3016.9	2846.9	2700.6	2565.8	2501.4	2483.8	2478.0
50°	3274.7	3052.1	2829.3	2630.2	2442.8	2272.8	2091.3	1962.5	1880.5	1851.1	1827.7
52.5°	2753.4	2554.2	2325.6	2120.7	1933.1	1733.9	1546.6	1400.0	1318.0	1283.0	1259.4
55°	2296.5	2097.3	1886.3	1687.1	1488.0	1288.8	1101.2	960.6	872.9	831.9	802.5
57.5°	1833.5	1646.1	1464.6	1265.4	1101.2	908.1	720.5	597.5	521.3	474.5	451.1
60°	1417.6	1271.2	1113.0	949.1	790.9	632.7	480.3	363.1	304.5	269.6	240.2
62.5°	1072.0	949.1	843.4	702.9	579.9	445.1	328.2	234.4	181.6	152.4	140.6
65°	773.3	679.5	585.7	497.9	410.1	310.6	222.6	152.4	105.4	87.8	82.0
67.5°	550.7	474.5	404.1	345.5	281.1	222.6	158.2	105.4	82.0	70.4	64.4
70°	386.5	328.2	281.1	228.6	187.4	146.4	123.0	76.2	46.8	52.8	41.0
72.5°	257.8	216.8	193.4	158.2	128.8	105.4	76.2	52.8	52.8	41.0	35.2
75°	140.6	128.8	99.6	76.2	64.4	58.6	23.4	11.8	5.8	17.6	5.8
77.5°	99.6	87.8	76.2	64.4	52.8	41.0	23.4	23.4	17.6	23.4	11.8
80°	64.4	52.8	46.8	46.8	29.2	17.6	11.8	11.8	17.6	5.8	5.8
82.5°	41.0	35.2	29.2	29.2	29.2	17.6	17.6	17.6	17.6	11.8	11.8
85°	23.4	17.6	11.8	11.8	5.8	11.8	0.0	5.8	5.8	0.0	0.0
87.5°	11.8	5.8	5.8	5.8	5.8	0.0	0.0	5.8	0.0	5.8	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°	12536.2	12536.2	12536.2	12536.2	12536.2	12536.2	12536.2	12536.2	12536.2	12536.2	12536.2
2.5°	12635.8	12659.2	12688.6	12712.0	12764.8	12776.4	12800.0	12823.4	12841.0	12858.3	12864.4
5°	12717.8	12805.8	12887.8	12975.5	13086.9	13163.1	13250.9	13327.1	13403.3	13467.7	13514.4
7.5°	12741.4	12875.9	12999.2	13151.3	13315.3	13456.1	13602.4	13748.8	13901.2	14018.4	14118.0
10°	12788.2	12952.1	13110.3	13291.9	13502.9	13690.2	13871.8	14065.2	14258.5	14422.5	14569.1
12.5°	12870.2	13051.7	13221.7	13420.9	13637.6	13848.4	14047.6	14264.3	14469.5	14651.1	14815.0
15°	13004.9	13174.7	13338.9	13526.2	13743.0	13936.4	14135.6	14346.3	14551.5	14738.8	14891.2
17.5°	13092.7	13250.9	13414.8	13584.8	13766.4	13942.2	14129.5	14317.1	14504.5	14674.5	14815.0
20°	13092.7	13245.1	13368.1	13520.5	13690.2	13842.6	13995.0	14159.0	14322.9	14463.5	14598.3
22.5°	12987.3	13133.7	13227.5	13344.7	13491.0	13620.0	13702.0	13883.6	14006.6	14129.5	14229.1
25°	12741.4	12846.8	12923.0	13004.9	13122.1	13209.9	13280.3	13385.7	13508.6	13555.7	13625.8
27.5°	12296.0	12372.2	12413.2	12430.8	12489.4	12536.2	12548.0	12594.8	12647.6	12659.2	12688.6
30°	11593.2	11599.0	11581.4	11575.6	11546.1	11511.2	11505.2	11499.4	11476.0	11452.6	11458.4
32.5°	10532.7	10503.5	10433.1	10357.2	10281.0	10199.0	10152.0	10093.4	10058.2	10023.2	9982.2
35°	9161.9	9091.8	8992.2	8898.4	8810.6	8746.0	8640.6	8605.4	8570.5	8523.4	8511.9
37.5°	7551.0	7510.0	7416.2	7346.0	7299.3	7269.8	7217.0	7182.1	7182.1	7164.5	7152.7
40°	5887.2	5875.7	5840.5	5858.1	5834.7	5846.3	5840.5	5828.7	5858.1	5858.1	5869.9
42.5°	4416.9	4422.9	4440.5	4452.1	4487.3	4493.1	4522.5	4522.5	4540.1	4557.5	4569.3
45°	3286.3	3309.9	3309.9	3333.3	3368.5	3374.3	3385.8	3391.9	3403.4	3432.9	3444.4
47.5°	2466.2	2472.0	2472.0	2478.0	2489.6	2501.4	2495.6	2501.4	2519.0	2507.2	2519.0
50°	1821.9	1827.7	1810.1	1792.5	1810.1	1810.1	1804.3	1786.7	1804.3	1780.9	1792.5
52.5°	1242.0	1236.0	1218.4	1224.4	1212.6	1206.8	1206.8	1195.0	1195.0	1195.0	1171.6
55°	785.1	785.1	773.3	773.3	767.5	755.7	749.9	743.9	738.1	732.3	732.3
57.5°	439.3	445.1	427.8	421.7	427.8	421.7	410.1	410.1	410.1	392.5	404.1
60°	240.2	234.4	228.6	222.6	216.8	222.6	222.6	211.0	211.0	211.0	216.8
62.5°	128.8	128.8	123.0	123.0	117.2	117.2	128.8	111.4	117.2	111.4	117.2
65°	70.4	87.8	64.4	64.4	82.0	76.2	70.4	70.4	76.2	64.4	70.4
67.5°	76.2	52.8	46.8	52.8	46.8	46.8	46.8	58.6	52.8	41.0	52.8
70°	35.2	41.0	41.0	29.2	46.8	23.4	41.0	23.4	35.2	29.2	35.2
72.5°	35.2	35.2	35.2	23.4	35.2	23.4	29.2	29.2	23.4	23.4	35.2
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°	11.8	11.8	5.8	5.8	5.8	5.8	11.8	11.8	11.8	0.0	5.8
80°	11.8	11.8	0.0	5.8	0.0	0.0	5.8	0.0	5.8	0.0	11.8
82.5°	5.8	11.8	5.8	5.8	11.8	11.8	11.8	5.8	5.8	5.8	5.8
85°	0.0	5.8	0.0	0.0	0.0	0.0	11.8	0.0	0.0	0.0	5.8
87.5°	0.0	5.8	0.0	0.0	0.0	0.0	5.8	5.8	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: P250217

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBSW0WH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	12536.2	12536.2	12536.2	12536.2
2.5°	12870.2	12875.9	12887.8	12882.0
5°	13549.6	13596.7	13620.0	13614.3
7.5°	14188.1	14270.3	14317.1	14317.1
10°	14680.3	14774.1	14844.2	14856.0
12.5°	14943.8	15049.4	15143.2	15119.6
15°	15020.0	15125.6	15219.2	15201.6
17.5°	14932.2	15037.6	15108.0	15096.2
20°	14692.1	14779.8	14850.2	14844.2
22.5°	14317.1	14393.3	14451.9	14445.9
25°	13684.4	13737.2	13784.0	13760.6
27.5°	12712.0	12729.6	12758.8	12723.8
30°	11417.4	11429.0	11440.8	11435.0
32.5°	9964.6	9958.6	9947.0	9935.2
35°	8494.3	8494.3	8500.0	8464.8
37.5°	7158.4	7152.7	7170.3	7152.7
40°	5881.5	5875.7	5899.1	5869.9
42.5°	4586.9	4604.5	4610.3	4610.3
45°	3450.5	3456.2	3462.0	3462.0
47.5°	2519.0	2524.8	2554.2	2519.0
50°	1780.9	1786.7	1792.5	1780.9
52.5°	1177.4	1183.4	1177.4	1159.8
55°	720.5	726.5	726.5	726.5
57.5°	386.5	392.5	392.5	386.5
60°	211.0	205.0	211.0	199.2
62.5°	111.4	123.0	117.2	105.4
65°	70.4	70.4	70.4	82.0
67.5°	58.6	46.8	52.8	41.0
70°	35.2	41.0	41.0	29.2
72.5°	29.2	29.2	29.2	35.2
75°	0.0	0.0	0.0	0.0
77.5°	11.8	11.8	11.8	5.8
80°	5.8	0.0	5.8	0.0
82.5°	5.8	5.8	11.8	5.8
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)