

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: P250210

Luminaire Tested: **LD8B200D010 ER8B200827 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250210
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 ER8B200827 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20683.0 lumens
Efficiency: N/A
Efficacy: 92.6 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

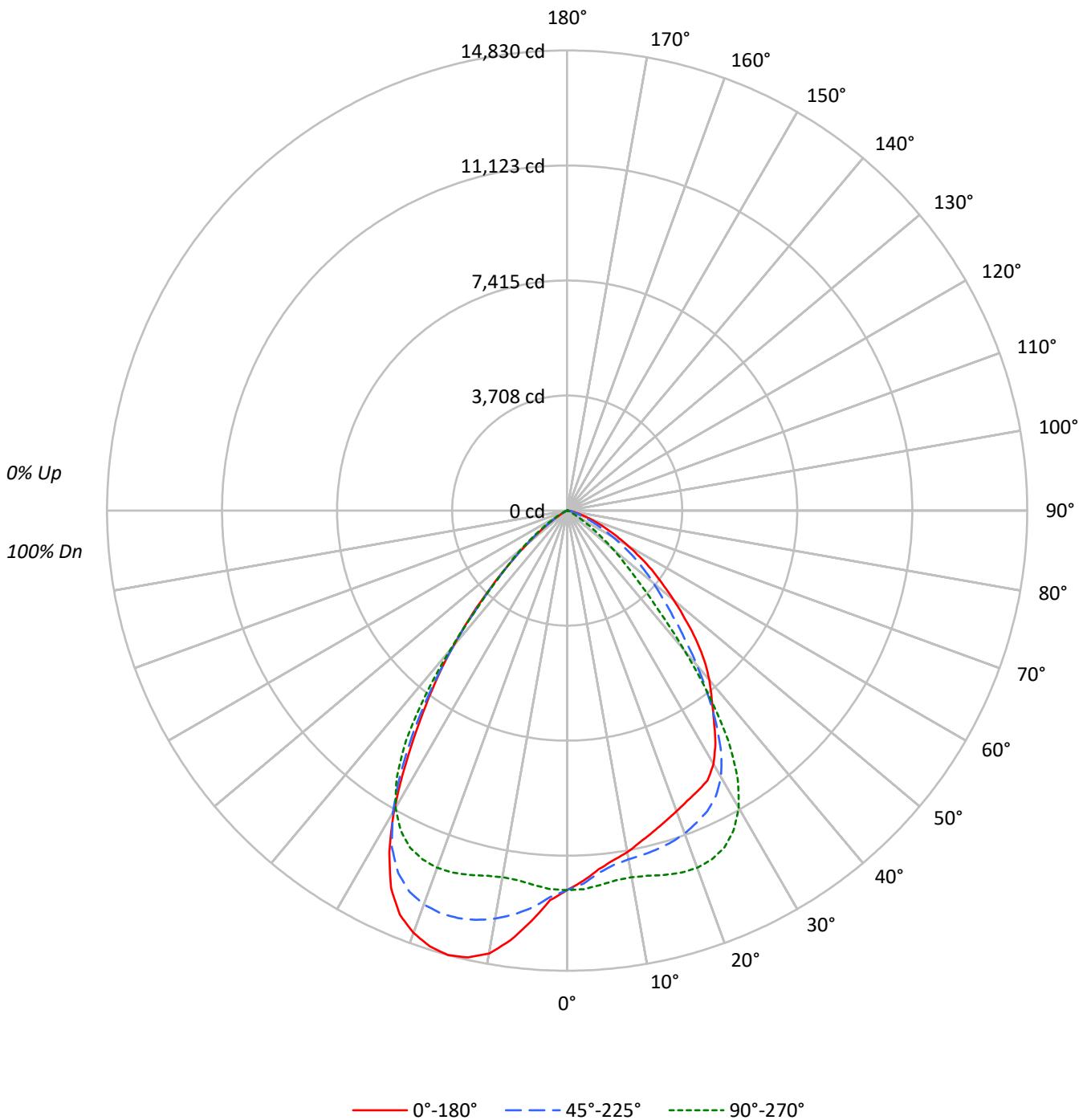
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P250210

CATALOG NUMBER: LD8B200D010 ER8B200827 8LBSW0WH

Luminous Intensity Polar Plot





TEST NUMBER: P250210

CATALOG NUMBER: LD8B200D010 ER8B200827 8LBSW0WH

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°	377125	377125	377125
5°	359284	375028	411120
10°	350018	375606	453808
15°	342083	388057	473438
20°	338316	402076	475215
25°	339108	407755	456753
30°	335964	393757	397214
35°	310440	340770	310866
40°	286874	236263	230514
45°	255449	142558	147285
50°	214937	91844	83348
55°	178821	50385	38106
60°	139577	21851	11983
65°	102997	10850	5837
70°	71623	6699	2570
75°	43582	1370	0
80°	31449	2042	0
85°	20238	1981	0



TEST NUMBER: P250210

CATALOG NUMBER: LD8B200D010 ER8B200827 8LBSW0WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1175.7	5.7
10°-20°	3518.8	17.0
20°-30°	5388.6	26.1
30°-40°	5282.6	25.5
40°-50°	3181.2	15.4
50°-60°	1464.2	7.1
60°-70°	514.4	2.5
70°-80°	134.5	0.7
80°-90°	22.9	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°	10083.1	48.8
0°-40°	15365.7	74.3
0°-60°	20011.2	96.8
0°-90°	20683.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20683.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12230	12230	12230	12230	12230	
5°	11607	11716	12116	12842	13282	###
15°	10716	11293	12156	13596	14830	3027
25°	9967	10687	11984	12887	13424	4590
35°	8247	8361	9052	8532	8258	5165
45°	5858	4823	3269	3292	3377	4492
55°	3326	2635	937	737	709	2968
65°	1412	977	149	74	80	1438
75°	366	212	12	0	0	443
85°	57	28	6	0	0	79
90°	0	0	0	0	0	



TEST NUMBER: P250210

CATALOG NUMBER: LD8B200D010 ER8B200827 8LBSW0WH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	12229.9	12229.9	12229.9	12229.9	12229.9	12229.9	12229.9	12229.9	12229.9	12229.9	12229.9
2.5°	11944.1	11955.6	11955.6	11955.6	11978.4	11984.3	11978.4	11984.3	11995.6	12035.6	12052.8
5°	11607.0	11589.8	11601.4	11595.5	11624.2	11641.4	11629.8	11647.0	11687.0	11715.7	11744.1
7.5°	11367.1	11367.1	11367.1	11378.4	11395.5	11429.9	11424.2	11435.5	11475.5	11515.5	11555.5
10°	11178.4	11172.8	11172.8	11201.2	11224.1	11264.0	11275.6	11309.9	11361.2	11412.7	11458.3
12.5°	10932.6	10938.5	10966.9	10995.6	11046.9	11109.7	11144.1	11189.9	11269.9	11355.5	11407.1
15°	10715.5	10721.1	10744.2	10801.1	10864.1	10938.5	11012.6	11086.9	11184.1	11292.7	11384.2
17.5°	10504.0	10509.7	10526.8	10589.9	10669.8	10767.0	10852.6	10949.8	11075.6	11201.2	11315.6
20°	10309.7	10304.1	10332.5	10389.7	10492.7	10584.0	10669.8	10784.2	10921.3	11075.6	11206.9
22.5°	10121.1	10121.1	10149.8	10206.9	10298.4	10389.7	10481.2	10601.2	10738.3	10887.0	11041.3
25°	9966.7	9961.1	10001.1	10029.8	10098.2	10189.7	10286.9	10384.0	10521.2	10687.0	10835.5
27.5°	9801.1	9795.5	9801.1	9835.5	9898.3	9966.7	10041.1	10126.9	10241.3	10378.4	10521.2
30°	9435.4	9441.0	9441.0	9469.7	9504.0	9578.1	9618.1	9704.0	9806.8	9921.1	10047.0
32.5°	8892.4	8898.1	8898.1	8909.6	8938.1	8972.4	9006.8	9069.6	9149.6	9246.7	9361.0
35°	8246.7	8246.7	8240.9	8246.7	8263.9	8263.9	8292.4	8263.9	8303.9	8361.1	8446.7
37.5°	7652.3	7640.8	7629.5	7618.0	7600.8	7572.3	7532.3	7463.6	7446.5	7423.7	7429.3
40°	7126.6	7120.9	7086.6	7057.9	7000.7	6932.3	6835.1	6715.1	6618.0	6503.7	6406.5
42.5°	6543.7	6537.8	6509.3	6457.8	6395.0	6292.2	6137.9	5977.9	5783.6	5612.1	5435.0
45°	5857.7	5874.9	5834.9	5777.7	5703.4	5606.3	5435.0	5240.5	5046.2	4823.4	4600.4
47.5°	5143.3	5137.7	5109.2	5074.9	5012.1	4914.9	4800.6	4589.1	4383.3	4177.7	3949.1
50°	4480.4	4457.6	4446.1	4412.0	4372.0	4292.0	4171.8	4000.3	3817.6	3623.3	3411.8
52.5°	3851.9	3851.9	3823.2	3800.4	3766.1	3703.2	3600.4	3463.3	3309.0	3126.0	2903.2
55°	3326.2	3314.6	3286.2	3257.5	3223.1	3183.1	3091.9	2977.6	2811.7	2634.6	2440.3
57.5°	2766.1	2760.2	2748.9	2714.6	2697.4	2657.4	2554.6	2440.3	2297.5	2143.2	1983.0
60°	2263.2	2240.3	2217.3	2194.5	2166.0	2126.0	2057.3	1960.2	1840.2	1703.1	1543.1
62.5°	1811.8	1845.9	1777.4	1777.4	1720.2	1685.9	1623.1	1565.9	1440.1	1314.5	1177.3
65°	1411.6	1411.6	1382.9	1360.1	1325.8	1285.8	1223.0	1165.8	1074.3	977.2	880.0
67.5°	1080.2	1074.3	1045.8	1023.0	994.3	971.5	925.9	857.2	788.7	708.8	628.5
70°	794.4	788.7	782.8	742.9	720.0	691.6	657.2	611.6	560.1	502.9	428.6
72.5°	571.4	571.4	554.4	537.3	514.5	491.4	457.3	428.6	383.0	343.0	291.5
75°	365.8	360.1	360.1	331.4	331.4	297.1	274.3	257.1	234.3	211.5	165.8
77.5°	263.0	257.1	251.5	239.9	228.6	217.1	199.9	177.1	160.0	137.1	120.0
80°	177.1	165.8	160.0	160.0	142.8	137.1	142.8	108.7	102.8	85.6	74.3
82.5°	108.7	108.7	102.8	102.8	97.2	91.5	74.3	74.3	68.7	62.8	51.5
85°	57.2	74.3	51.5	57.2	51.5	57.2	51.5	40.0	34.3	28.5	28.5
87.5°	34.3	22.8	22.8	34.3	28.5	22.8	22.8	22.8	17.2	11.5	11.5
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: P250210

CATALOG NUMBER: LD8B200D010 ER8B200827 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	12229.9	12229.9	12229.9	12229.9	12229.9	12229.9	12229.9	12229.9	12229.9	12229.9	12229.9
2.5°	12041.5	12081.5	12075.6	12127.1	12144.3	12184.3	12184.3	12212.7	12229.9	12269.9	12304.2
5°	11755.7	11818.5	11835.7	11898.5	11950.0	12012.8	12052.8	12115.6	12172.7	12258.6	12338.6
7.5°	11578.5	11629.8	11664.2	11738.5	11795.7	11864.1	11932.8	12018.4	12098.4	12201.4	12315.8
10°	11492.7	11561.4	11612.7	11687.0	11755.7	11830.0	11898.5	11995.6	12087.1	12218.6	12344.2
12.5°	11469.9	11549.8	11612.7	11715.7	11784.1	11864.1	11944.1	12052.8	12149.9	12287.1	12430.1
15°	11469.9	11578.5	11664.2	11778.5	11858.5	11961.3	12047.1	12155.6	12264.2	12407.0	12544.2
17.5°	11447.1	11578.5	11687.0	11818.5	11921.3	12024.3	12132.8	12235.8	12349.9	12487.2	12641.3
20°	11355.5	11521.4	11652.6	11807.0	11915.6	12030.0	12138.6	12252.7	12372.9	12515.7	12647.2
22.5°	11195.6	11389.9	11538.6	11704.2	11830.0	11944.1	12052.8	12167.1	12298.6	12435.7	12572.9
25°	10984.1	11166.9	11327.1	11498.3	11624.2	11749.8	11852.8	11984.3	12104.3	12235.8	12344.2
27.5°	10664.0	10858.3	11012.6	11189.9	11304.0	11424.2	11509.9	11618.5	11732.9	11841.3	11927.2
30°	10184.1	10361.2	10521.2	10681.1	10795.5	10881.3	10972.6	11058.5	11132.8	11206.9	11281.2
32.5°	9481.0	9641.2	9795.5	9943.9	10035.4	10109.8	10178.2	10229.7	10269.7	10309.7	10315.4
35°	8515.4	8646.6	8743.8	8875.3	8961.1	9029.6	9029.6	9052.4	9046.8	9029.6	9012.4
37.5°	7435.2	7486.5	7526.5	7578.0	7583.6	7583.6	7549.5	7520.8	7475.2	7463.6	7429.3
40°	6309.4	6240.7	6189.2	6120.7	6080.7	5994.9	5920.8	5869.3	5794.9	5783.6	5772.1
42.5°	5240.5	5080.5	4937.7	4817.8	4680.6	4560.4	4452.0	4372.0	4314.8	4309.0	4314.8
45°	4372.0	4189.0	3977.5	3811.9	3657.6	3508.9	3366.2	3269.0	3217.5	3206.0	3217.5
47.5°	3714.8	3503.3	3297.5	3108.8	2943.2	2777.4	2634.6	2503.1	2440.3	2423.1	2417.5
50°	3194.7	2977.6	2760.2	2565.9	2383.1	2217.3	2040.2	1914.5	1834.6	1805.9	1783.1
52.5°	2686.1	2491.8	2268.8	2068.9	1885.8	1691.5	1508.8	1365.8	1285.8	1251.7	1228.6
55°	2240.3	2046.0	1840.2	1645.9	1451.6	1257.3	1074.3	937.2	851.5	811.5	782.8
57.5°	1788.7	1605.9	1428.8	1234.5	1074.3	885.9	702.9	582.9	508.6	462.9	440.1
60°	1382.9	1240.1	1085.8	925.9	771.6	617.2	468.6	354.3	297.1	263.0	234.3
62.5°	1045.8	925.9	822.8	685.7	565.7	434.2	320.1	228.6	177.1	148.7	137.1
65°	754.4	662.9	571.4	485.8	400.1	303.0	217.1	148.7	102.8	85.6	80.0
67.5°	537.3	462.9	394.2	337.1	274.3	217.1	154.3	102.8	80.0	68.7	62.8
70°	377.1	320.1	274.3	223.0	182.8	142.8	120.0	74.3	45.6	51.5	40.0
72.5°	251.5	211.5	188.7	154.3	125.6	102.8	74.3	51.5	51.5	40.0	34.3
75°	137.1	125.6	97.2	74.3	62.8	57.2	22.8	11.5	5.6	17.2	5.6
77.5°	97.2	85.6	74.3	62.8	51.5	40.0	22.8	22.8	17.2	22.8	11.5
80°	62.8	51.5	45.6	45.6	28.5	17.2	11.5	11.5	17.2	5.6	5.6
82.5°	40.0	34.3	28.5	28.5	28.5	17.2	17.2	17.2	17.2	11.5	11.5
85°	22.8	17.2	11.5	11.5	5.6	11.5	0.0	5.6	5.6	0.0	0.0
87.5°	11.5	5.6	5.6	5.6	5.6	0.0	0.0	5.6	0.0	5.6	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: P250210

CATALOG NUMBER: LD8B200D010 ER8B200827 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	12229.9	12229.9	12229.9	12229.9	12229.9	12229.9	12229.9	12229.9	12229.9	12229.9	12229.9
2.5°	12327.1	12349.9	12378.6	12401.4	12452.9	12464.2	12487.2	12510.1	12527.2	12544.2	12550.1
5°	12407.0	12492.9	12572.9	12658.5	12767.2	12841.5	12927.1	13001.5	13075.8	13138.6	13184.2
7.5°	12430.1	12561.3	12681.5	12830.0	12989.9	13127.3	13270.1	13412.9	13561.5	13675.9	13773.0
10°	12475.7	12635.7	12790.0	12967.1	13172.9	13355.7	13532.8	13721.5	13910.2	14070.1	14213.1
12.5°	12555.7	12732.8	12898.7	13093.0	13304.4	13510.0	13704.3	13915.8	14116.0	14293.1	14453.1
15°	12687.2	12852.8	13013.0	13195.8	13407.2	13595.9	13790.2	13995.8	14196.0	14378.7	14527.4
17.5°	12772.8	12927.1	13087.1	13252.9	13430.1	13601.5	13784.3	13967.3	14150.1	14315.9	14453.1
20°	12772.8	12921.5	13041.4	13190.1	13355.7	13504.4	13653.1	13813.0	13973.0	14110.1	14241.6
22.5°	12670.0	12812.8	12904.3	13018.6	13161.4	13287.3	13367.2	13544.4	13664.3	13784.3	13881.5
25°	12430.1	12532.9	12607.2	12687.2	12801.5	12887.1	12955.8	13058.6	13178.6	13224.5	13292.9
27.5°	11995.6	12069.9	12109.9	12127.1	12184.3	12229.9	12241.4	12287.1	12338.6	12349.9	12378.6
30°	11309.9	11315.6	11298.4	11292.7	11264.0	11229.9	11224.1	11218.4	11195.6	11172.8	11178.4
32.5°	10275.4	10246.9	10178.2	10104.1	10029.8	9949.8	9903.9	9846.8	9812.4	9778.3	9738.3
35°	8938.1	8869.6	8772.5	8681.0	8595.3	8532.3	8429.5	8395.2	8361.1	8315.2	8303.9
37.5°	7366.5	7326.5	7235.0	7166.6	7120.9	7092.2	7040.7	7006.6	7006.6	6989.4	6977.9
40°	5743.4	5732.1	5697.8	5714.9	5692.1	5703.4	5697.8	5686.2	5714.9	5714.9	5726.5
42.5°	4309.0	4314.8	4332.0	4343.3	4377.7	4383.3	4412.0	4412.0	4429.2	4446.1	4457.6
45°	3206.0	3229.0	3229.0	3251.8	3286.2	3291.8	3303.1	3309.0	3320.3	3349.0	3360.3
47.5°	2405.9	2411.6	2411.6	2417.5	2428.8	2440.3	2434.6	2440.3	2457.5	2445.9	2457.5
50°	1777.4	1783.1	1765.9	1748.7	1765.9	1765.9	1760.2	1743.1	1760.2	1737.4	1748.7
52.5°	1211.7	1205.8	1188.6	1194.5	1183.0	1177.3	1177.3	1165.8	1165.8	1165.8	1143.0
55°	765.9	765.9	754.4	754.4	748.7	737.2	731.6	725.7	720.0	714.4	714.4
57.5°	428.6	434.2	417.3	411.4	417.3	411.4	400.1	400.1	400.1	383.0	394.2
60°	234.3	228.6	223.0	217.1	211.5	217.1	217.1	205.8	205.8	205.8	211.5
62.5°	125.6	125.6	120.0	120.0	114.3	114.3	125.6	108.7	114.3	108.7	114.3
65°	68.7	85.6	62.8	62.8	80.0	74.3	68.7	68.7	74.3	62.8	68.7
67.5°	74.3	51.5	45.6	51.5	45.6	45.6	45.6	57.2	51.5	40.0	51.5
70°	34.3	40.0	40.0	28.5	45.6	22.8	40.0	22.8	34.3	28.5	34.3
72.5°	34.3	34.3	34.3	22.8	34.3	22.8	28.5	28.5	22.8	22.8	34.3
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°	11.5	11.5	5.6	5.6	5.6	5.6	11.5	11.5	11.5	0.0	5.6
80°	11.5	11.5	0.0	5.6	0.0	0.0	5.6	0.0	5.6	0.0	11.5
82.5°	5.6	11.5	5.6	5.6	11.5	11.5	11.5	5.6	5.6	5.6	5.6
85°	0.0	5.6	0.0	0.0	0.0	0.0	11.5	0.0	0.0	0.0	5.6
87.5°	0.0	5.6	0.0	0.0	0.0	0.0	5.6	5.6	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: P250210

CATALOG NUMBER: LD8B200D010 ER8B200827 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	12229.9	12229.9	12229.9	12229.9
2.5°	12555.7	12561.3	12572.9	12567.2
5°	13218.6	13264.4	13287.3	13281.6
7.5°	13841.5	13921.7	13967.3	13967.3
10°	14321.6	14413.1	14481.5	14493.1
12.5°	14578.7	14681.7	14773.2	14750.2
15°	14653.0	14756.0	14847.3	14830.1
17.5°	14567.4	14670.2	14738.9	14727.4
20°	14333.1	14418.7	14487.4	14481.5
22.5°	13967.3	14041.7	14098.8	14092.9
25°	13350.1	13401.6	13447.2	13424.4
27.5°	12401.4	12418.6	12447.0	12412.9
30°	11138.4	11149.7	11161.2	11155.6
32.5°	9721.2	9715.3	9704.0	9692.5
35°	8286.7	8286.7	8292.4	8258.0
37.5°	6983.5	6977.9	6995.1	6977.9
40°	5737.8	5732.1	5754.9	5726.5
42.5°	4474.8	4492.0	4497.6	4497.6
45°	3366.2	3371.8	3377.4	3377.4
47.5°	2457.5	2463.1	2491.8	2457.5
50°	1737.4	1743.1	1748.7	1737.4
52.5°	1148.6	1154.5	1148.6	1131.5
55°	702.9	708.8	708.8	708.8
57.5°	377.1	383.0	383.0	377.1
60°	205.8	199.9	205.8	194.3
62.5°	108.7	120.0	114.3	102.8
65°	68.7	68.7	68.7	80.0
67.5°	57.2	45.6	51.5	40.0
70°	34.3	40.0	40.0	28.5
72.5°	28.5	28.5	28.5	34.3
75°	0.0	0.0	0.0	0.0
77.5°	11.5	11.5	11.5	5.6
80°	5.6	0.0	5.6	0.0
82.5°	5.6	5.6	11.5	5.6
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)