

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: P250273

Luminaire Tested: **LD8B200D010 ER8B200950 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250273
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 ER8B200950 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20330.0 lumens
Efficiency: N/A
Efficacy: 91.0 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

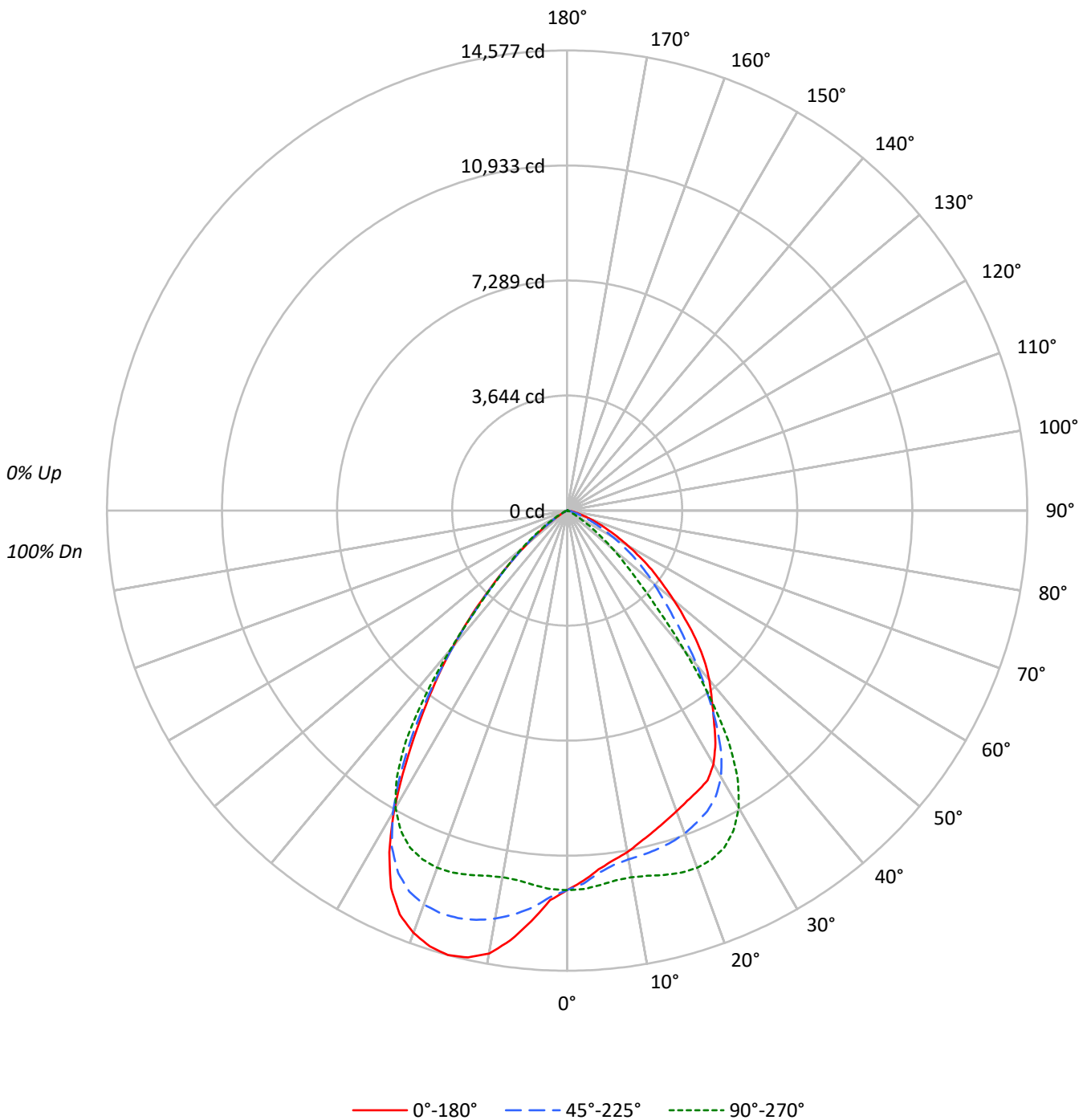
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	370690	370690	370690
5°	353152	368626	404103
10°	344044	369197	446062
15°	336244	381432	465358
20°	332544	395215	467106
25°	333321	400797	448958
30°	330227	387034	390435
35°	305144	334954	305562
40°	281975	232229	226577
45°	251093	140125	144774
50°	211272	90280	81928
55°	175768	49525	37456
60°	137191	21474	11779
65°	101239	10660	5735
70°	70396	6591	2524
75°	42832	1346	0
80°	30917	2007	0
85°	19884	1946	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1155.6	5.7
10°-20°	3458.7	17.0
20°-30°	5296.7	26.1
30°-40°	5192.5	25.5
40°-50°	3126.9	15.4
50°-60°	1439.2	7.1
60°-70°	505.6	2.5
70°-80°	132.2	0.7
80°-90°	22.5	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°	9911.0	48.8
0°-40°	15103.5	74.3
0°-60°	19669.6	96.8
0°-90°	20330.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20330.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12021	12021	12021	12021	12021	
5°	11409	11516	11909	12622	13055	###
15°	10533	11100	11948	13364	14577	2976
25°	9797	10505	11780	12667	13195	4512
35°	8106	8218	8898	8387	8117	5077
45°	5758	4741	3213	3236	3320	4415
55°	3269	2590	921	725	697	2917
65°	1388	960	146	73	79	1413
75°	360	208	11	0	0	436
85°	56	28	6	0	0	77
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°	12021.2	12021.2	12021.2	12021.2	12021.2	12021.2	12021.2	12021.2	12021.2	12021.2	12021.2
2.5°	11740.2	11751.6	11751.6	11751.6	11774.0	11779.8	11774.0	11779.8	11790.9	11830.2	11847.1
5°	11408.9	11392.0	11403.4	11397.6	11425.8	11442.7	11431.3	11448.2	11487.5	11515.7	11543.7
7.5°	11173.1	11173.1	11173.1	11184.2	11201.0	11234.8	11229.3	11240.4	11279.7	11319.0	11358.3
10°	10987.6	10982.1	10982.1	11010.1	11032.5	11071.8	11083.1	11116.9	11167.3	11217.9	11262.8
12.5°	10746.0	10751.8	10779.8	10808.0	10858.4	10920.1	10953.9	10999.0	11077.6	11161.7	11212.4
15°	10532.6	10538.2	10560.8	10616.8	10678.7	10751.8	10824.6	10897.7	10993.2	11100.0	11189.9
17.5°	10324.7	10330.3	10347.2	10409.1	10487.7	10583.2	10667.4	10762.9	10886.6	11010.1	11122.4
20°	10133.8	10128.2	10156.2	10212.4	10313.6	10403.4	10487.7	10600.1	10734.9	10886.6	11015.6
22.5°	9948.3	9948.3	9976.5	10032.7	10122.7	10212.4	10302.3	10420.2	10555.0	10701.2	10852.8
25°	9796.6	9791.1	9830.4	9858.6	9925.9	10015.8	10111.3	10206.8	10341.6	10504.6	10650.5
27.5°	9633.9	9628.3	9633.9	9667.6	9729.4	9796.6	9869.7	9954.1	10066.5	10201.3	10341.6
30°	9274.3	9279.9	9279.9	9308.1	9341.8	9414.7	9454.0	9538.4	9639.4	9751.8	9875.5
32.5°	8740.7	8746.2	8746.2	8757.6	8785.5	8819.3	8853.0	8914.8	8993.4	9088.9	9201.3
35°	8106.0	8106.0	8100.2	8106.0	8122.9	8122.9	8150.8	8122.9	8162.2	8218.4	8302.5
37.5°	7521.7	7510.4	7499.3	7487.9	7471.1	7443.1	7403.8	7336.3	7319.4	7297.0	7302.5
40°	7004.9	6999.4	6965.6	6937.4	6881.2	6813.9	6718.5	6600.5	6505.0	6392.7	6297.2
42.5°	6432.0	6426.2	6398.2	6347.6	6285.8	6184.8	6033.1	5875.9	5684.9	5516.4	5342.3
45°	5757.8	5774.6	5735.3	5679.1	5606.1	5510.6	5342.3	5151.0	4960.1	4741.1	4521.9
47.5°	5055.5	5050.0	5022.0	4988.3	4926.5	4831.0	4718.7	4510.8	4308.5	4106.4	3881.7
50°	4404.0	4381.6	4370.2	4336.7	4297.4	4218.8	4100.6	3932.1	3752.4	3561.4	3353.6
52.5°	3786.2	3786.2	3758.0	3735.5	3701.8	3640.0	3539.0	3404.2	3252.5	3072.6	2853.7
55°	3269.4	3258.1	3230.1	3201.9	3168.1	3128.8	3039.1	2926.7	2763.7	2589.6	2398.6
57.5°	2718.9	2713.1	2702.0	2668.2	2651.4	2612.1	2511.0	2398.6	2258.3	2106.6	1949.2
60°	2224.5	2202.1	2179.4	2157.0	2129.0	2089.7	2022.2	1926.7	1808.8	1674.0	1516.8
62.5°	1780.8	1814.4	1747.1	1747.1	1690.9	1657.1	1595.4	1539.2	1415.5	1292.0	1157.2
65°	1387.5	1387.5	1359.3	1336.9	1303.1	1263.8	1202.1	1145.9	1056.0	960.5	865.0
67.5°	1061.7	1056.0	1028.0	1005.6	977.4	954.9	910.1	842.6	775.3	696.7	617.8
70°	780.8	775.3	769.5	730.2	707.8	679.8	646.0	601.2	550.5	494.3	421.3
72.5°	561.6	561.6	545.0	528.1	505.7	483.0	449.5	421.3	376.4	337.1	286.5
75°	359.5	354.0	354.0	325.8	325.8	292.0	269.6	252.7	230.3	207.9	163.0
77.5°	258.5	252.7	247.2	235.8	224.7	213.4	196.5	174.1	157.2	134.8	117.9
80°	174.1	163.0	157.2	157.2	140.3	134.8	140.3	106.8	101.0	84.2	73.1
82.5°	106.8	106.8	101.0	101.0	95.5	89.9	73.1	73.1	67.5	61.7	50.6
85°	56.2	73.1	50.6	56.2	50.6	56.2	50.6	39.3	33.8	28.0	28.0
87.5°	33.8	22.4	22.4	33.8	28.0	22.4	22.4	22.4	16.9	11.3	11.3
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°	12021.2	12021.2	12021.2	12021.2	12021.2	12021.2	12021.2	12021.2	12021.2	12021.2	12021.2
2.5°	11836.0	11875.3	11869.5	11920.1	11937.0	11976.3	11976.3	12004.3	12021.2	12060.5	12094.2
5°	11555.0	11616.8	11633.7	11695.4	11746.0	11807.8	11847.1	11908.8	11965.0	12049.4	12128.0
7.5°	11380.9	11431.3	11465.1	11538.2	11594.3	11661.6	11729.1	11813.3	11891.9	11993.2	12105.6
10°	11296.5	11364.1	11414.5	11487.5	11555.0	11628.1	11695.4	11790.9	11880.8	12010.1	12133.5
12.5°	11274.1	11352.7	11414.5	11515.7	11583.0	11661.6	11740.2	11847.1	11942.6	12077.4	12217.9
15°	11274.1	11380.9	11465.1	11577.5	11656.1	11757.1	11841.5	11948.1	12054.9	12195.3	12330.1
17.5°	11251.7	11380.9	11487.5	11616.8	11717.8	11819.1	11925.7	12027.0	12139.1	12274.1	12425.6
20°	11161.7	11324.7	11453.8	11605.4	11712.3	11824.6	11931.5	12043.6	12161.8	12302.1	12431.3
22.5°	11004.5	11195.5	11341.6	11504.4	11628.1	11740.2	11847.1	11959.4	12088.7	12223.5	12358.3
25°	10796.7	10976.3	11133.8	11302.1	11425.8	11549.3	11650.5	11779.8	11897.7	12027.0	12133.5
27.5°	10482.0	10672.9	10824.6	10999.0	11111.1	11229.3	11313.4	11420.2	11532.6	11639.2	11723.6
30°	10010.3	10184.4	10341.6	10498.8	10611.2	10695.6	10785.3	10869.7	10942.8	11015.6	11088.7
32.5°	9319.2	9476.6	9628.3	9774.2	9864.2	9937.2	10004.5	10055.1	10094.4	10133.8	10139.3
35°	8370.0	8499.1	8594.5	8723.8	8808.2	8875.5	8875.5	8897.9	8892.4	8875.5	8858.6
37.5°	7308.3	7358.7	7398.0	7448.6	7454.2	7454.2	7420.7	7392.5	7347.6	7336.3	7302.5
40°	6201.7	6134.2	6083.5	6016.3	5976.9	5892.6	5819.7	5769.1	5696.0	5684.9	5673.6
42.5°	5151.0	4993.8	4853.5	4735.5	4600.7	4482.6	4376.0	4297.4	4241.2	4235.4	4241.2
45°	4297.4	4117.5	3909.6	3746.9	3595.2	3449.1	3308.7	3213.2	3162.6	3151.2	3162.6
47.5°	3651.4	3443.5	3241.2	3055.8	2893.0	2730.0	2589.6	2460.4	2398.6	2381.8	2376.2
50°	3140.1	2926.7	2713.1	2522.1	2342.5	2179.4	2005.3	1881.9	1803.3	1775.0	1752.6
52.5°	2640.3	2449.3	2230.1	2033.5	1853.7	1662.7	1483.0	1342.4	1263.8	1230.3	1207.6
55°	2202.1	2011.1	1808.8	1617.8	1426.8	1235.9	1056.0	921.2	837.0	797.7	769.5
57.5°	1758.2	1578.5	1404.4	1213.4	1056.0	870.8	690.9	573.0	499.9	455.0	432.6
60°	1359.3	1219.0	1067.3	910.1	758.4	606.7	460.6	348.2	292.0	258.5	230.3
62.5°	1028.0	910.1	808.8	674.0	556.1	426.8	314.7	224.7	174.1	146.1	134.8
65°	741.5	651.6	561.6	477.5	393.3	297.8	213.4	146.1	101.0	84.2	78.6
67.5°	528.1	455.0	387.5	331.3	269.6	213.4	151.7	101.0	78.6	67.5	61.7
70°	370.6	314.7	269.6	219.2	179.7	140.3	117.9	73.1	44.9	50.6	39.3
72.5°	247.2	207.9	185.4	151.7	123.5	101.0	73.1	50.6	50.6	39.3	33.8
75°	134.8	123.5	95.5	73.1	61.7	56.2	22.4	11.3	5.5	16.9	5.5
77.5°	95.5	84.2	73.1	61.7	50.6	39.3	22.4	22.4	16.9	22.4	11.3
80°	61.7	50.6	44.9	44.9	28.0	16.9	11.3	11.3	16.9	5.5	5.5
82.5°	39.3	33.8	28.0	28.0	28.0	16.9	16.9	16.9	16.9	11.3	11.3
85°	22.4	16.9	11.3	11.3	5.5	11.3	0.0	5.5	5.5	0.0	0.0
87.5°	11.3	5.5	5.5	5.5	5.5	0.0	0.0	5.5	0.0	5.5	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°	12021.2	12021.2	12021.2	12021.2	12021.2	12021.2	12021.2	12021.2	12021.2	12021.2	12021.2
2.5°	12116.7	12139.1	12167.3	12189.7	12240.4	12251.5	12274.1	12296.6	12313.4	12330.1	12335.9
5°	12195.3	12279.7	12358.3	12442.4	12549.3	12622.3	12706.5	12779.6	12852.6	12914.4	12959.2
7.5°	12217.9	12347.0	12465.1	12611.0	12768.2	12903.3	13043.6	13184.0	13330.1	13442.5	13538.0
10°	12262.8	12420.0	12571.7	12745.8	12948.1	13127.8	13301.9	13487.3	13672.8	13830.0	13970.6
12.5°	12341.4	12515.5	12678.5	12869.5	13077.4	13279.5	13470.4	13678.3	13875.1	14049.2	14206.4
15°	12470.7	12633.4	12790.9	12970.5	13178.4	13363.8	13554.8	13756.9	13953.7	14133.3	14279.5
17.5°	12554.8	12706.5	12863.7	13026.7	13200.8	13369.4	13549.1	13728.9	13908.6	14071.6	14206.4
20°	12554.8	12700.9	12818.9	12965.0	13127.8	13273.9	13420.0	13577.3	13734.5	13869.3	13998.5
22.5°	12453.8	12594.1	12684.1	12796.4	12936.8	13060.5	13139.1	13313.2	13431.1	13549.1	13644.5
25°	12217.9	12319.0	12392.0	12470.7	12583.0	12667.2	12734.7	12835.7	12953.7	12998.8	13066.0
27.5°	11790.9	11863.9	11903.3	11920.1	11976.3	12021.2	12032.5	12077.4	12128.0	12139.1	12167.3
30°	11116.9	11122.4	11105.6	11100.0	11071.8	11038.3	11032.5	11026.9	11004.5	10982.1	10987.6
32.5°	10100.0	10072.0	10004.5	9931.7	9858.6	9780.0	9734.9	9678.7	9645.0	9611.4	9572.1
35°	8785.5	8718.2	8622.8	8532.8	8448.6	8386.7	8285.6	8251.9	8218.4	8173.3	8162.2
37.5°	7240.8	7201.5	7111.5	7044.2	6999.4	6971.2	6920.5	6887.0	6887.0	6870.1	6858.8
40°	5645.4	5634.3	5600.5	5617.4	5595.0	5606.1	5600.5	5589.2	5617.4	5617.4	5628.7
42.5°	4235.4	4241.2	4258.1	4269.2	4302.9	4308.5	4336.7	4336.7	4353.6	4370.2	4381.6
45°	3151.2	3173.9	3173.9	3196.3	3230.1	3235.6	3246.7	3252.5	3263.6	3291.8	3302.9
47.5°	2364.9	2370.4	2370.4	2376.2	2387.3	2398.6	2393.1	2398.6	2415.5	2404.2	2415.5
50°	1747.1	1752.6	1735.7	1718.9	1735.7	1735.7	1730.2	1713.3	1730.2	1707.8	1718.9
52.5°	1191.0	1185.2	1168.3	1174.1	1162.8	1157.2	1157.2	1145.9	1145.9	1145.9	1123.5
55°	752.8	752.8	741.5	741.5	736.0	724.6	719.1	713.3	707.8	702.2	702.2
57.5°	421.3	426.8	410.2	404.4	410.2	404.4	393.3	393.3	393.3	376.4	387.5
60°	230.3	224.7	219.2	213.4	207.9	213.4	213.4	202.3	202.3	202.3	207.9
62.5°	123.5	123.5	117.9	117.9	112.4	112.4	123.5	106.8	112.4	106.8	112.4
65°	67.5	84.2	61.7	61.7	78.6	73.1	67.5	67.5	73.1	61.7	67.5
67.5°	73.1	50.6	44.9	50.6	44.9	44.9	44.9	56.2	50.6	39.3	50.6
70°	33.8	39.3	39.3	28.0	44.9	22.4	39.3	22.4	33.8	28.0	33.8
72.5°	33.8	33.8	33.8	22.4	33.8	22.4	28.0	28.0	22.4	22.4	33.8
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°	11.3	11.3	5.5	5.5	5.5	5.5	11.3	11.3	11.3	0.0	5.5
80°	11.3	11.3	0.0	5.5	0.0	0.0	5.5	0.0	5.5	0.0	11.3
82.5°	5.5	11.3	5.5	5.5	11.3	11.3	11.3	5.5	5.5	5.5	5.5
85°	0.0	5.5	0.0	0.0	0.0	0.0	11.3	0.0	0.0	0.0	5.5
87.5°	0.0	5.5	0.0	0.0	0.0	0.0	5.5	5.5	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: P250273

CATALOG NUMBER: LD8B200D010 ER8B200950 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	12021.2	12021.2	12021.2	12021.2
2.5°	12341.4	12347.0	12358.3	12352.7
5°	12993.0	13038.1	13060.5	13054.9
7.5°	13605.2	13684.1	13728.9	13728.9
10°	14077.1	14167.1	14234.4	14245.7
12.5°	14329.9	14431.1	14521.1	14498.4
15°	14402.9	14504.2	14593.9	14577.0
17.5°	14318.8	14419.8	14487.3	14476.0
20°	14088.5	14172.6	14240.2	14234.4
22.5°	13728.9	13802.0	13858.2	13852.4
25°	13122.2	13172.9	13217.7	13195.3
27.5°	12189.7	12206.6	12234.6	12201.1
30°	10948.3	10959.4	10970.8	10965.2
32.5°	9555.2	9549.5	9538.4	9527.0
35°	8145.3	8145.3	8150.8	8117.1
37.5°	6864.4	6858.8	6875.7	6858.8
40°	5639.8	5634.3	5656.7	5628.7
42.5°	4398.4	4415.3	4420.9	4420.9
45°	3308.7	3314.3	3319.8	3319.8
47.5°	2415.5	2421.1	2449.3	2415.5
50°	1707.8	1713.3	1718.9	1707.8
52.5°	1129.0	1134.8	1129.0	1112.2
55°	690.9	696.7	696.7	696.7
57.5°	370.6	376.4	376.4	370.6
60°	202.3	196.5	202.3	191.0
62.5°	106.8	117.9	112.4	101.0
65°	67.5	67.5	67.5	78.6
67.5°	56.2	44.9	50.6	39.3
70°	33.8	39.3	39.3	28.0
72.5°	28.0	28.0	28.0	33.8
75°	0.0	0.0	0.0	0.0
77.5°	11.3	11.3	11.3	5.5
80°	5.5	0.0	5.5	0.0
82.5°	5.5	5.5	11.3	5.5
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)