

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: P249706

Luminaire Tested: **LD8B200D010 ER8B200827 8LBSW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249706
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 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21448.0 lumens
Efficiency: N/A
Efficacy: 96.1 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

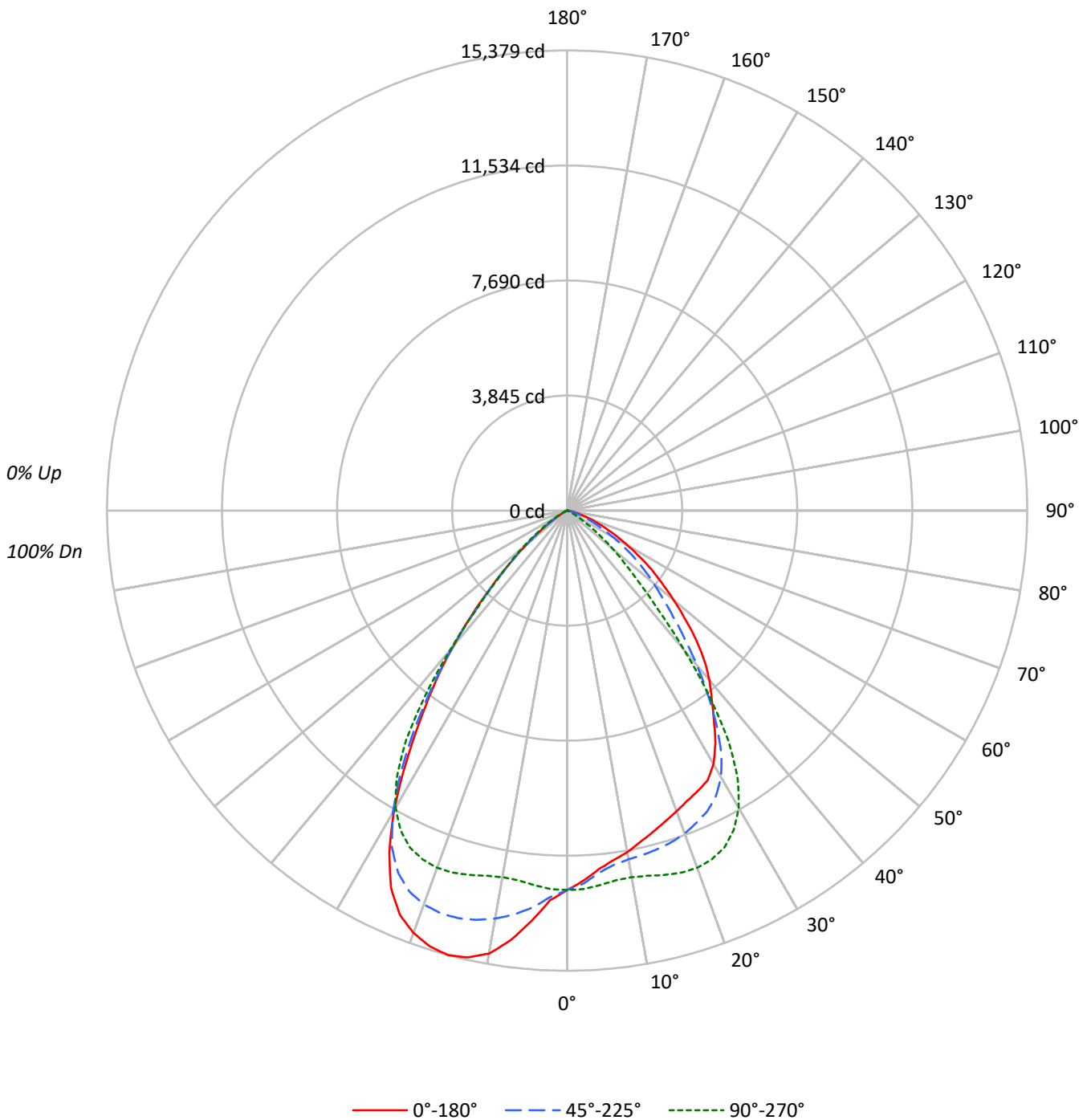
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	391072	391072	391072
5°	372573	388898	426328
10°	362966	389500	470591
15°	354734	402410	490951
20°	350829	416948	492794
25°	351653	422838	473646
30°	348387	408320	411906
35°	321926	353374	322366
40°	297485	244998	239040
45°	264899	147831	152737
50°	222891	95245	86433
55°	185434	52245	39515
60°	144739	22659	12427
65°	106806	11251	6049
70°	74273	6951	2660
75°	45191	1430	0
80°	32621	2131	0
85°	20981	2087	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1219.2	5.7
10°-20°	3648.9	17.0
20°-30°	5587.9	26.1
30°-40°	5478.0	25.5
40°-50°	3298.9	15.4
50°-60°	1518.4	7.1
60°-70°	533.4	2.5
70°-80°	139.5	0.7
80°-90°	23.8	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°	10456.0	48.8
0°-40°	15934.1	74.3
0°-60°	20751.3	96.8
0°-90°	21448.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21448.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12682	12682	12682	12682	12682	
5°	12036	12149	12564	13316	13773	###
15°	11112	11710	12605	14099	15379	3139
25°	10335	11082	12428	13364	13921	4760
35°	8552	8670	9387	8848	8564	5356
45°	6074	5002	3390	3414	3502	4658
55°	3449	2732	972	764	735	3078
65°	1464	1013	154	77	83	1491
75°	379	219	12	0	0	460
85°	59	30	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°	12682.2	12682.2	12682.2	12682.2	12682.2	12682.2	12682.2	12682.2	12682.2	12682.2	12682.2
2.5°	12385.9	12397.8	12397.8	12397.8	12421.5	12427.6	12421.5	12427.6	12439.3	12480.8	12498.6
5°	12036.3	12018.5	12030.5	12024.4	12054.1	12071.9	12060.0	12077.8	12119.3	12149.0	12178.5
7.5°	11787.5	11787.5	11787.5	11799.2	11817.0	11852.6	11846.8	11858.5	11900.0	11941.4	11982.9
10°	11591.9	11586.0	11586.0	11615.5	11639.2	11680.7	11692.6	11728.2	11781.4	11834.8	11882.2
12.5°	11337.0	11343.1	11372.6	11402.3	11455.5	11520.6	11556.3	11603.8	11686.8	11775.6	11829.0
15°	11111.8	11117.7	11141.6	11200.6	11266.0	11343.1	11419.9	11497.0	11597.7	11710.4	11805.3
17.5°	10892.5	10898.4	10916.2	10981.6	11064.5	11165.2	11254.0	11354.8	11485.3	11615.5	11734.1
20°	10691.0	10685.2	10714.7	10774.0	10880.8	10975.5	11064.5	11183.0	11325.3	11485.3	11621.4
22.5°	10495.4	10495.4	10525.2	10584.4	10679.3	10774.0	10868.9	10993.3	11135.5	11289.6	11449.7
25°	10335.4	10329.5	10371.0	10400.8	10471.7	10566.6	10667.4	10768.1	10910.3	11082.3	11236.2
27.5°	10163.7	10157.8	10163.7	10199.3	10264.4	10335.4	10412.5	10501.5	10620.1	10762.3	10910.3
30°	9784.3	9790.2	9790.2	9820.0	9855.6	9932.4	9973.9	10062.9	10169.5	10288.1	10418.6
32.5°	9221.3	9227.2	9227.2	9239.2	9268.7	9304.3	9339.9	9405.0	9488.0	9588.7	9707.3
35°	8551.8	8551.8	8545.7	8551.8	8569.6	8569.6	8599.1	8569.6	8611.0	8670.3	8759.1
37.5°	7935.3	7923.4	7911.7	7899.7	7881.9	7852.4	7810.9	7739.7	7721.9	7698.2	7704.1
40°	7390.2	7384.3	7348.7	7318.9	7259.6	7188.7	7087.9	6963.5	6862.8	6744.2	6643.5
42.5°	6785.7	6779.6	6750.1	6696.7	6631.5	6524.9	6364.9	6199.0	5997.5	5819.7	5636.0
45°	6074.4	6092.2	6050.7	5991.4	5914.4	5813.6	5636.0	5434.3	5232.8	5001.8	4770.6
47.5°	5333.6	5327.7	5298.2	5262.6	5197.5	5096.7	4978.2	4758.9	4545.4	4332.2	4095.1
50°	4646.2	4622.5	4610.6	4575.2	4533.7	4450.8	4326.1	4148.3	3958.8	3757.3	3538.0
52.5°	3994.4	3994.4	3964.6	3941.0	3905.3	3840.2	3733.6	3591.4	3431.4	3241.6	3010.6
55°	3449.2	3437.2	3407.7	3378.0	3342.4	3300.9	3206.2	3087.7	2915.7	2732.0	2530.5
57.5°	2868.4	2862.3	2850.6	2815.0	2797.2	2755.7	2649.1	2530.5	2382.5	2222.5	2056.3
60°	2346.9	2323.2	2299.3	2275.6	2246.1	2204.7	2133.4	2032.7	1908.3	1766.1	1600.2
62.5°	1878.8	1914.1	1843.1	1843.1	1783.9	1748.3	1683.1	1623.9	1493.3	1363.1	1220.9
65°	1463.8	1463.8	1434.1	1410.4	1374.8	1333.3	1268.2	1208.9	1114.0	1013.3	912.5
67.5°	1120.1	1114.0	1084.5	1060.9	1031.1	1007.4	960.1	888.9	817.9	735.0	651.8
70°	823.8	817.9	811.8	770.3	746.7	717.2	681.5	634.2	580.8	521.5	444.4
72.5°	592.5	592.5	574.9	557.1	533.5	509.6	474.2	444.4	397.1	355.7	302.2
75°	379.3	373.5	373.5	343.7	343.7	308.1	284.4	266.6	243.0	219.3	172.0
77.5°	272.7	266.6	260.8	248.8	237.1	225.1	207.3	183.7	165.9	142.2	124.4
80°	183.7	172.0	165.9	165.9	148.1	142.2	148.1	112.7	106.6	88.8	77.1
82.5°	112.7	112.7	106.6	106.6	100.7	94.9	77.1	77.1	71.2	65.1	53.4
85°	59.3	77.1	53.4	59.3	53.4	59.3	53.4	41.5	35.6	29.5	29.5
87.5°	35.6	23.7	23.7	35.6	29.5	23.7	23.7	23.7	17.8	12.0	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°	12682.2	12682.2	12682.2	12682.2	12682.2	12682.2	12682.2	12682.2	12682.2	12682.2	12682.2
2.5°	12486.9	12528.3	12522.2	12575.6	12593.5	12634.9	12634.9	12664.4	12682.2	12723.7	12759.3
5°	12190.5	12255.6	12273.4	12338.5	12392.0	12457.1	12498.6	12563.7	12623.0	12712.0	12794.9
7.5°	12006.8	12060.0	12095.6	12172.7	12232.0	12302.9	12374.2	12463.0	12545.9	12652.7	12771.3
10°	11917.8	11989.0	12042.2	12119.3	12190.5	12267.6	12338.5	12439.3	12534.2	12670.5	12800.8
12.5°	11894.1	11977.0	12042.2	12149.0	12220.0	12302.9	12385.9	12498.6	12599.3	12741.5	12889.8
15°	11894.1	12006.8	12095.6	12214.1	12297.1	12403.7	12492.7	12605.2	12717.9	12865.9	13008.1
17.5°	11870.4	12006.8	12119.3	12255.6	12362.2	12469.1	12581.5	12688.3	12806.7	12949.1	13108.9
20°	11775.6	11947.5	12083.6	12243.7	12356.4	12474.9	12587.6	12705.9	12830.6	12978.6	13115.0
22.5°	11609.7	11811.2	11965.3	12137.1	12267.6	12385.9	12498.6	12617.1	12753.5	12895.7	13037.9
25°	11390.4	11579.9	11746.0	11923.6	12054.1	12184.4	12291.2	12427.6	12552.0	12688.3	12800.8
27.5°	11058.4	11259.9	11419.9	11603.8	11722.1	11846.8	11935.6	12048.3	12166.8	12279.3	12368.3
30°	10560.8	10744.5	10910.3	11076.2	11194.8	11283.8	11378.4	11467.5	11544.6	11621.4	11698.5
32.5°	9831.7	9997.8	10157.8	10311.7	10406.6	10483.7	10554.7	10608.1	10649.6	10691.0	10696.9
35°	8830.3	8966.4	9067.2	9203.5	9292.6	9363.6	9363.6	9387.2	9381.4	9363.6	9345.8
37.5°	7710.2	7763.4	7804.8	7858.3	7864.1	7864.1	7828.7	7799.0	7751.7	7739.7	7704.1
40°	6542.7	6471.5	6418.1	6347.1	6305.6	6216.6	6139.8	6086.3	6009.3	5997.5	5985.6
42.5°	5434.3	5268.4	5120.4	4996.0	4853.8	4729.1	4616.6	4533.7	4474.4	4468.3	4474.4
45°	4533.7	4343.9	4124.6	3952.9	3792.9	3638.7	3490.7	3389.9	3336.5	3324.5	3336.5
47.5°	3852.2	3632.9	3419.4	3223.8	3052.1	2880.1	2732.0	2595.7	2530.5	2512.7	2506.9
50°	3312.8	3087.7	2862.3	2660.8	2471.3	2299.3	2115.6	1985.4	1902.4	1872.7	1849.0
52.5°	2785.5	2584.0	2352.7	2145.4	1955.6	1754.1	1564.6	1416.3	1333.3	1298.0	1274.1
55°	2323.2	2121.7	1908.3	1706.8	1505.3	1303.8	1114.0	971.8	883.0	841.6	811.8
57.5°	1854.9	1665.3	1481.6	1280.2	1114.0	918.6	728.9	604.5	527.4	480.1	456.4
60°	1434.1	1286.0	1126.0	960.1	800.1	640.1	485.9	367.4	308.1	272.7	243.0
62.5°	1084.5	960.1	853.3	711.1	586.7	450.3	332.0	237.1	183.7	154.2	142.2
65°	782.3	687.4	592.5	503.7	414.9	314.2	225.1	154.2	106.6	88.8	82.9
67.5°	557.1	480.1	408.8	349.6	284.4	225.1	160.0	106.6	82.9	71.2	65.1
70°	391.0	332.0	284.4	231.2	189.5	148.1	124.4	77.1	47.3	53.4	41.5
72.5°	260.8	219.3	195.6	160.0	130.3	106.6	77.1	53.4	53.4	41.5	35.6
75°	142.2	130.3	100.7	77.1	65.1	59.3	23.7	12.0	5.9	17.8	5.9
77.5°	100.7	88.8	77.1	65.1	53.4	41.5	23.7	23.7	17.8	23.7	12.0
80°	65.1	53.4	47.3	47.3	29.5	17.8	12.0	12.0	17.8	5.9	5.9
82.5°	41.5	35.6	29.5	29.5	29.5	17.8	17.8	17.8	17.8	12.0	12.0
85°	23.7	17.8	12.0	12.0	5.9	12.0	0.0	5.9	5.9	0.0	0.0
87.5°	12.0	5.9	5.9	5.9	5.9	0.0	0.0	5.9	0.0	5.9	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°	12682.2	12682.2	12682.2	12682.2	12682.2	12682.2	12682.2	12682.2	12682.2	12682.2	12682.2
2.5°	12783.0	12806.7	12836.4	12860.1	12913.5	12925.2	12949.1	12972.8	12990.6	13008.1	13014.2
5°	12865.9	12955.0	13037.9	13126.7	13239.4	13316.5	13405.3	13482.3	13559.4	13624.6	13671.9
7.5°	12889.8	13025.9	13150.6	13304.5	13470.4	13612.8	13760.9	13909.0	14063.1	14181.7	14282.4
10°	12937.2	13103.0	13263.0	13446.7	13660.2	13849.7	14033.4	14229.0	14424.7	14590.5	14738.8
12.5°	13020.1	13203.8	13375.7	13577.2	13796.5	14009.7	14211.2	14430.5	14638.1	14821.8	14987.6
15°	13156.5	13328.2	13494.3	13683.8	13903.1	14098.8	14300.2	14513.4	14721.0	14910.6	15064.7
17.5°	13245.2	13405.3	13571.1	13743.1	13926.8	14104.6	14294.1	14483.9	14673.5	14845.4	14987.6
20°	13245.2	13399.4	13523.8	13678.0	13849.7	14003.9	14158.0	14323.9	14489.8	14632.0	14768.4
22.5°	13138.6	13286.7	13381.6	13500.2	13648.2	13778.7	13861.7	14045.3	14169.7	14294.1	14394.9
25°	12889.8	12996.4	13073.5	13156.5	13275.0	13363.8	13435.0	13541.6	13666.0	13713.6	13784.6
27.5°	12439.3	12516.4	12557.8	12575.6	12634.9	12682.2	12694.2	12741.5	12794.9	12806.7	12836.4
30°	11728.2	11734.1	11716.3	11710.4	11680.7	11645.3	11639.2	11633.3	11609.7	11586.0	11591.9
32.5°	10655.4	10625.9	10554.7	10477.8	10400.8	10317.8	10270.3	10211.0	10175.4	10140.0	10098.5
35°	9268.7	9197.7	9096.9	9002.1	8913.3	8847.9	8741.3	8705.7	8670.3	8622.7	8611.0
37.5°	7639.0	7597.5	7502.6	7431.6	7384.3	7354.5	7301.1	7265.7	7265.7	7247.9	7236.0
40°	5955.8	5944.1	5908.5	5926.3	5902.7	5914.4	5908.5	5896.6	5926.3	5926.3	5938.3
42.5°	4468.3	4474.4	4492.2	4504.0	4539.6	4545.4	4575.2	4575.2	4593.0	4610.6	4622.5
45°	3324.5	3348.4	3348.4	3372.1	3407.7	3413.6	3425.3	3431.4	3443.1	3472.9	3484.6
47.5°	2494.9	2500.8	2500.8	2506.9	2518.6	2530.5	2524.7	2530.5	2548.4	2536.4	2548.4
50°	1843.1	1849.0	1831.2	1813.4	1831.2	1831.2	1825.3	1807.5	1825.3	1801.7	1813.4
52.5°	1256.5	1250.4	1232.6	1238.7	1226.7	1220.9	1220.9	1208.9	1208.9	1208.9	1185.3
55°	794.2	794.2	782.3	782.3	776.4	764.5	758.6	752.5	746.7	740.8	740.8
57.5°	444.4	450.3	432.7	426.6	432.7	426.6	414.9	414.9	414.9	397.1	408.8
60°	243.0	237.1	231.2	225.1	219.3	225.1	225.1	213.4	213.4	213.4	219.3
62.5°	130.3	130.3	124.4	124.4	118.6	118.6	130.3	112.7	118.6	112.7	118.6
65°	71.2	88.8	65.1	65.1	82.9	77.1	71.2	71.2	77.1	65.1	71.2
67.5°	77.1	53.4	47.3	53.4	47.3	47.3	47.3	59.3	53.4	41.5	53.4
70°	35.6	41.5	41.5	29.5	47.3	23.7	41.5	23.7	35.6	29.5	35.6
72.5°	35.6	35.6	35.6	23.7	35.6	23.7	29.5	29.5	23.7	23.7	35.6
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°	12.0	12.0	5.9	5.9	5.9	5.9	12.0	12.0	12.0	0.0	5.9
80°	12.0	12.0	0.0	5.9	0.0	0.0	5.9	0.0	5.9	0.0	12.0
82.5°	5.9	12.0	5.9	5.9	12.0	12.0	12.0	5.9	5.9	5.9	5.9
85°	0.0	5.9	0.0	0.0	0.0	0.0	12.0	0.0	0.0	0.0	5.9
87.5°	0.0	5.9	0.0	0.0	0.0	0.0	5.9	5.9	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: P249706

CATALOG NUMBER: LD8B200D010 ER8B200827 8LBSWOLI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	12682.2	12682.2	12682.2	12682.2
2.5°	13020.1	13025.9	13037.9	13032.0
5°	13707.5	13755.1	13778.7	13772.9
7.5°	14353.4	14436.6	14483.9	14483.9
10°	14851.3	14946.2	15017.2	15029.1
12.5°	15117.9	15224.7	15319.6	15295.7
15°	15195.0	15301.8	15396.5	15378.7
17.5°	15106.2	15212.8	15284.0	15272.1
20°	14863.2	14952.0	15023.3	15017.2
22.5°	14483.9	14561.0	14620.3	14614.2
25°	13843.9	13897.3	13944.6	13920.9
27.5°	12860.1	12877.9	12907.4	12872.0
30°	11550.4	11562.1	11574.1	11568.2
32.5°	10080.7	10074.6	10062.9	10051.0
35°	8593.2	8593.2	8599.1	8563.5
37.5°	7241.8	7236.0	7253.8	7236.0
40°	5950.0	5944.1	5967.8	5938.3
42.5°	4640.3	4658.1	4664.0	4664.0
45°	3490.7	3496.5	3502.4	3502.4
47.5°	2548.4	2554.2	2584.0	2548.4
50°	1801.7	1807.5	1813.4	1801.7
52.5°	1191.1	1197.2	1191.1	1173.3
55°	728.9	735.0	735.0	735.0
57.5°	391.0	397.1	397.1	391.0
60°	213.4	207.3	213.4	201.5
62.5°	112.7	124.4	118.6	106.6
65°	71.2	71.2	71.2	82.9
67.5°	59.3	47.3	53.4	41.5
70°	35.6	41.5	41.5	29.5
72.5°	29.5	29.5	29.5	35.6
75°	0.0	0.0	0.0	0.0
77.5°	12.0	12.0	12.0	5.9
80°	5.9	0.0	5.9	0.0
82.5°	5.9	5.9	12.0	5.9
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)