

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: P249713

Luminaire Tested: **LD8B200D010 ER8B200830 8LBSW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249713
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 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21985.0 lumens
Efficiency: N/A
Efficacy: 98.5 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

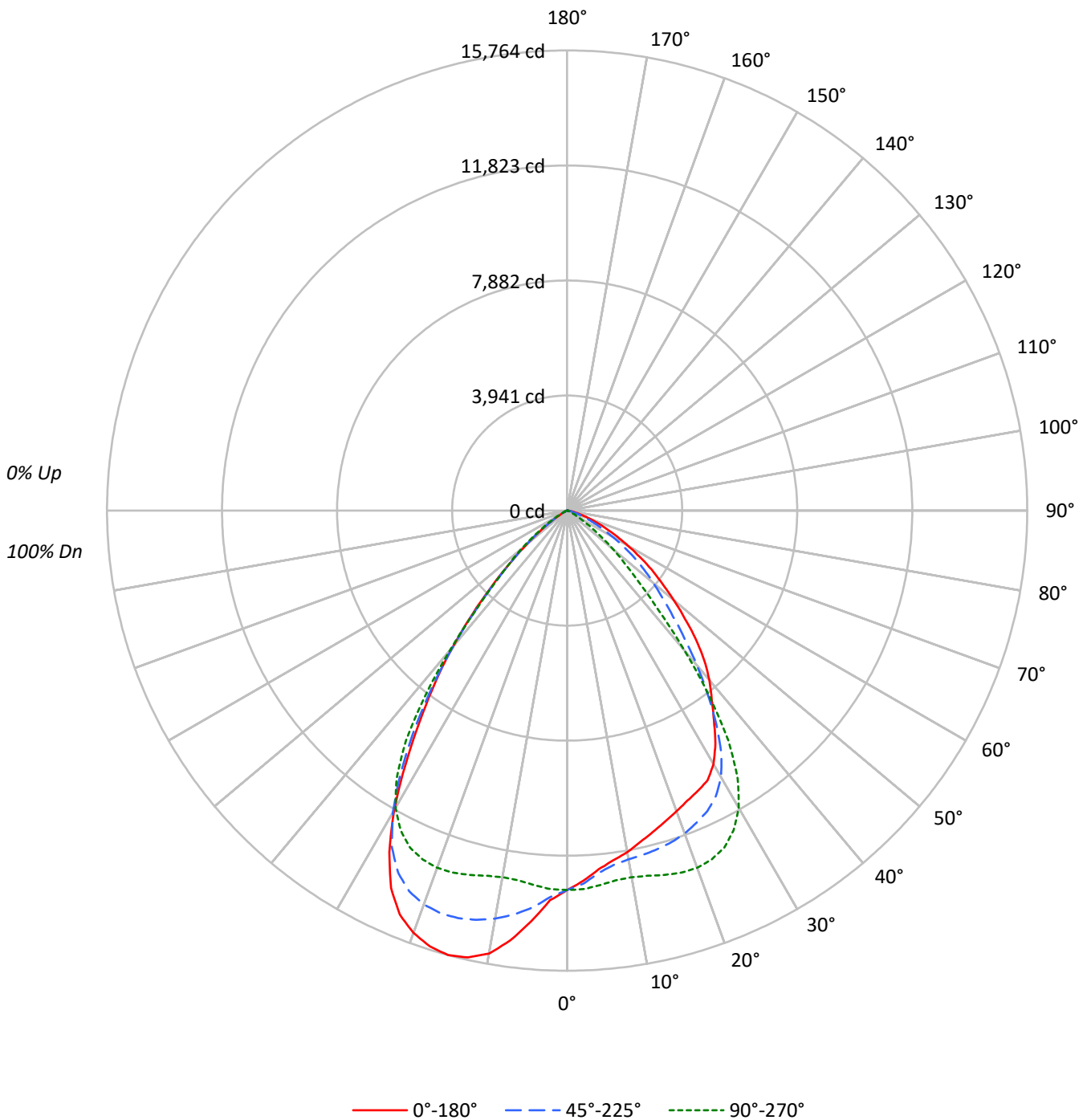
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	400866	400866	400866
5°	381902	398636	437001
10°	372052	399250	482374
15°	363616	412485	503242
20°	359613	427387	505133
25°	360458	433423	485507
30°	357110	418543	422217
35°	329985	362224	330437
40°	304932	251132	245022
45°	271532	151533	156561
50°	228470	97629	88596
55°	190079	53557	40504
60°	148360	23226	12735
65°	109484	11528	6202
70°	76131	7123	2732
75°	46323	1465	0
80°	33438	2184	0
85°	21511	2123	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1249.7	5.7
10°-20°	3740.3	17.0
20°-30°	5727.8	26.1
30°-40°	5615.2	25.5
40°-50°	3381.5	15.4
50°-60°	1556.4	7.1
60°-70°	546.8	2.5
70°-80°	143.0	0.7
80°-90°	24.4	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°	10717.8	48.8
0°-40°	16333.0	74.3
0°-60°	21270.9	96.8
0°-90°	21985.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21985.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13000	13000	13000	13000	13000	
5°	12338	12453	12878	13650	14118	###
15°	11390	12004	12921	14452	15764	3218
25°	10594	11360	12739	13698	14270	4879
35°	8766	8887	9622	9069	8778	5490
45°	6226	5127	3475	3499	3590	4775
55°	3536	2800	996	784	753	3155
65°	1500	1039	158	79	85	1529
75°	389	225	12	0	0	471
85°	61	30	6	0	0	83
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°	12999.8	12999.8	12999.8	12999.8	12999.8	12999.8	12999.8	12999.8	12999.8	12999.8	12999.8
2.5°	12696.0	12708.2	12708.2	12708.2	12732.5	12738.7	12732.5	12738.7	12750.7	12793.2	12811.5
5°	12337.7	12319.4	12331.7	12325.4	12355.9	12374.2	12361.9	12380.2	12422.7	12453.2	12483.4
7.5°	12082.6	12082.6	12082.6	12094.6	12112.9	12149.4	12143.4	12155.4	12197.9	12240.4	12282.9
10°	11882.1	11876.1	11876.1	11906.4	11930.6	11973.1	11985.4	12021.9	12076.4	12131.1	12179.6
12.5°	11620.8	11627.1	11657.3	11687.8	11742.3	11809.1	11845.6	11894.4	11979.4	12070.4	12125.1
15°	11390.0	11396.0	11420.5	11481.0	11548.1	11627.1	11705.8	11784.8	11888.1	12003.6	12100.9
17.5°	11165.2	11171.2	11189.5	11256.5	11341.5	11444.8	11535.8	11639.1	11772.8	11906.4	12027.9
20°	10958.7	10952.7	10983.0	11043.7	11153.2	11250.3	11341.5	11463.0	11608.8	11772.8	11912.4
22.5°	10758.2	10758.2	10788.7	10849.4	10946.7	11043.7	11141.0	11268.5	11414.3	11572.3	11736.3
25°	10594.2	10588.2	10630.7	10661.2	10733.9	10831.2	10934.5	11037.7	11183.5	11359.8	11517.5
27.5°	10418.1	10412.1	10418.1	10454.6	10521.4	10594.2	10673.2	10764.4	10885.9	11031.7	11183.5
30°	10029.3	10035.3	10035.3	10065.8	10102.3	10181.1	10223.6	10314.9	10424.1	10545.6	10679.4
32.5°	9452.2	9458.2	9458.2	9470.5	9500.7	9537.2	9573.7	9640.5	9725.5	9828.8	9950.3
35°	8765.9	8765.9	8759.6	8765.9	8784.1	8784.1	8814.4	8784.1	8826.6	8887.4	8978.4
37.5°	8134.0	8121.8	8109.8	8097.5	8079.3	8049.0	8006.5	7933.5	7915.2	7891.0	7897.0
40°	7575.2	7569.2	7532.7	7502.2	7441.4	7368.6	7265.4	7137.9	7034.6	6913.1	6809.8
42.5°	6955.6	6949.3	6919.1	6864.3	6797.6	6688.3	6524.3	6354.2	6147.7	5965.4	5777.2
45°	6226.5	6244.7	6202.2	6141.5	6062.4	5959.2	5777.2	5570.4	5363.8	5127.0	4890.0
47.5°	5467.1	5461.1	5430.8	5394.3	5327.6	5224.3	5102.8	4878.0	4659.2	4440.7	4197.7
50°	4762.5	4738.2	4726.0	4689.7	4647.2	4562.2	4434.4	4252.2	4057.9	3851.4	3626.6
52.5°	4094.4	4094.4	4063.9	4039.6	4003.1	3936.4	3827.1	3681.3	3517.3	3322.8	3086.0
55°	3535.6	3523.3	3493.0	3462.5	3426.0	3383.5	3286.5	3165.0	2988.7	2800.4	2593.9
57.5°	2940.2	2934.0	2922.0	2885.4	2867.2	2824.7	2715.4	2593.9	2442.1	2278.1	2107.8
60°	2405.6	2381.4	2356.9	2332.6	2302.4	2259.9	2186.8	2083.6	1956.1	1810.3	1640.3
62.5°	1925.8	1962.1	1889.3	1889.3	1828.5	1792.0	1725.3	1664.5	1530.7	1397.2	1251.4
65°	1500.5	1500.5	1470.0	1445.7	1409.2	1366.7	1300.0	1239.2	1141.9	1038.7	935.4
67.5°	1148.2	1141.9	1111.7	1087.4	1056.9	1032.7	984.2	911.1	838.4	753.4	668.1
70°	844.4	838.4	832.1	789.6	765.4	735.1	698.6	650.1	595.3	534.6	455.6
72.5°	607.3	607.3	589.3	571.1	546.8	522.3	486.1	455.6	407.1	364.6	309.8
75°	388.8	382.8	382.8	352.3	352.3	315.8	291.5	273.3	249.0	224.8	176.3
77.5°	279.5	273.3	267.3	255.0	243.0	230.8	212.5	188.3	170.0	145.8	127.5
80°	188.3	176.3	170.0	170.0	151.8	145.8	151.8	115.5	109.3	91.0	79.0
82.5°	115.5	115.5	109.3	109.3	103.3	97.3	79.0	79.0	73.0	66.8	54.8
85°	60.8	79.0	54.8	60.8	54.8	60.8	54.8	42.5	36.5	30.3	30.3
87.5°	36.5	24.3	24.3	36.5	30.3	24.3	24.3	24.3	18.3	12.3	12.3
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°	12999.8	12999.8	12999.8	12999.8	12999.8	12999.8	12999.8	12999.8	12999.8	12999.8	12999.8
2.5°	12799.5	12842.0	12835.8	12890.5	12908.8	12951.3	12951.3	12981.5	12999.8	13042.3	13078.8
5°	12495.7	12562.5	12580.7	12647.5	12702.2	12769.0	12811.5	12878.3	12939.0	13030.3	13115.3
7.5°	12307.4	12361.9	12398.4	12477.4	12538.2	12611.0	12684.0	12775.0	12860.0	12969.5	13091.0
10°	12216.2	12289.2	12343.7	12422.7	12495.7	12574.7	12647.5	12750.7	12848.0	12987.8	13121.3
12.5°	12191.9	12276.9	12343.7	12453.2	12526.0	12611.0	12696.0	12811.5	12914.8	13060.5	13212.6
15°	12191.9	12307.4	12398.4	12520.0	12605.0	12714.2	12805.5	12920.8	13036.3	13188.1	13333.8
17.5°	12167.6	12307.4	12422.7	12562.5	12671.7	12781.2	12896.5	13006.0	13127.3	13273.3	13437.1
20°	12070.4	12246.7	12386.2	12550.2	12665.7	12787.2	12902.8	13024.0	13151.8	13303.6	13443.3
22.5°	11900.4	12106.9	12264.9	12440.9	12574.7	12696.0	12811.5	12933.0	13072.8	13218.6	13364.3
25°	11675.6	11869.9	12040.1	12222.2	12355.9	12489.4	12599.0	12738.7	12866.3	13006.0	13121.3
27.5°	11335.3	11541.8	11705.8	11894.4	12015.6	12143.4	12234.4	12349.9	12471.4	12586.7	12678.0
30°	10825.2	11013.5	11183.5	11353.5	11475.0	11566.3	11663.3	11754.6	11833.6	11912.4	11991.4
32.5°	10077.8	10248.1	10412.1	10569.9	10667.2	10746.2	10818.9	10873.7	10916.2	10958.7	10964.7
35°	9051.4	9190.9	9294.2	9434.0	9525.2	9598.0	9598.0	9622.3	9616.2	9598.0	9579.7
37.5°	7903.2	7957.7	8000.2	8055.0	8061.0	8061.0	8024.8	7994.2	7945.7	7933.5	7897.0
40°	6706.5	6633.5	6578.8	6506.0	6463.5	6372.2	6293.5	6238.7	6159.7	6147.7	6135.5
42.5°	5570.4	5400.3	5248.6	5121.0	4975.3	4847.5	4732.2	4647.2	4586.5	4580.2	4586.5
45°	4647.2	4452.7	4227.9	4051.9	3887.9	3729.8	3578.1	3474.8	3420.0	3407.8	3420.0
47.5°	3948.6	3723.8	3505.0	3304.5	3128.5	2952.2	2800.4	2660.7	2593.9	2575.7	2569.7
50°	3395.8	3165.0	2934.0	2727.4	2533.1	2356.9	2168.6	2035.1	1950.1	1919.5	1895.3
52.5°	2855.2	2648.7	2411.6	2199.1	2004.6	1798.0	1603.8	1451.7	1366.7	1330.5	1306.0
55°	2381.4	2174.8	1956.1	1749.5	1543.0	1336.5	1141.9	996.2	905.1	862.6	832.1
57.5°	1901.3	1707.0	1518.7	1312.2	1141.9	941.6	747.1	619.6	540.6	492.1	467.8
60°	1470.0	1318.2	1154.2	984.2	820.1	656.1	498.1	376.6	315.8	279.5	249.0
62.5°	1111.7	984.2	874.6	728.9	601.3	461.6	340.3	243.0	188.3	158.0	145.8
65°	801.9	704.6	607.3	516.3	425.3	322.1	230.8	158.0	109.3	91.0	85.0
67.5°	571.1	492.1	419.1	358.3	291.5	230.8	164.0	109.3	85.0	73.0	66.8
70°	400.8	340.3	291.5	237.0	194.3	151.8	127.5	79.0	48.5	54.8	42.5
72.5°	267.3	224.8	200.5	164.0	133.5	109.3	79.0	54.8	54.8	42.5	36.5
75°	145.8	133.5	103.3	79.0	66.8	60.8	24.3	12.3	6.0	18.3	6.0
77.5°	103.3	91.0	79.0	66.8	54.8	42.5	24.3	24.3	18.3	24.3	12.3
80°	66.8	54.8	48.5	48.5	30.3	18.3	12.3	12.3	18.3	6.0	6.0
82.5°	42.5	36.5	30.3	30.3	30.3	18.3	18.3	18.3	18.3	12.3	12.3
85°	24.3	18.3	12.3	12.3	6.0	12.3	0.0	6.0	6.0	0.0	0.0
87.5°	12.3	6.0	6.0	6.0	6.0	0.0	0.0	6.0	0.0	6.0	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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	12999.8	12999.8	12999.8	12999.8	12999.8	12999.8	12999.8	12999.8	12999.8	12999.8	12999.8
2.5°	13103.0	13127.3	13157.8	13182.1	13236.8	13248.8	13273.3	13297.6	13315.8	13333.8	13340.1
5°	13188.1	13279.3	13364.3	13455.3	13570.9	13649.9	13740.9	13819.9	13898.9	13965.7	14014.2
7.5°	13212.6	13352.1	13479.9	13637.6	13807.7	13953.7	14105.4	14257.2	14415.2	14536.8	14640.0
10°	13261.1	13431.1	13595.1	13783.4	14002.2	14196.5	14384.7	14585.3	14785.8	14955.8	15107.9
12.5°	13346.1	13534.4	13710.6	13917.2	14142.0	14360.5	14567.0	14791.8	15004.6	15192.9	15362.9
15°	13485.9	13661.9	13832.2	14026.4	14251.2	14451.8	14658.3	14876.8	15089.6	15283.9	15441.9
17.5°	13576.9	13740.9	13910.9	14087.2	14275.5	14457.8	14652.0	14846.6	15040.8	15217.1	15362.9
20°	13576.9	13734.9	13862.4	14020.4	14196.5	14354.5	14512.5	14682.5	14852.6	14998.3	15138.1
22.5°	13467.6	13619.4	13716.6	13838.2	13989.9	14123.7	14208.7	14397.0	14524.5	14652.0	14755.3
25°	13212.6	13321.8	13400.8	13485.9	13607.4	13698.4	13771.4	13880.7	14008.2	14056.9	14129.7
27.5°	12750.7	12829.8	12872.3	12890.5	12951.3	12999.8	13012.0	13060.5	13115.3	13127.3	13157.8
30°	12021.9	12027.9	12009.6	12003.6	11973.1	11936.9	11930.6	11924.6	11900.4	11876.1	11882.1
32.5°	10922.2	10891.9	10818.9	10740.2	10661.2	10576.1	10527.4	10466.6	10430.1	10393.9	10351.4
35°	9500.7	9428.0	9324.7	9227.4	9136.4	9069.4	8960.1	8923.6	8887.4	8838.6	8826.6
37.5°	7830.2	7787.7	7690.4	7617.7	7569.2	7538.7	7483.9	7447.7	7447.7	7429.4	7417.2
40°	6105.0	6093.0	6056.4	6074.7	6050.4	6062.4	6056.4	6044.2	6074.7	6074.7	6086.9
42.5°	4580.2	4586.5	4604.7	4616.7	4653.2	4659.2	4689.7	4689.7	4708.0	4726.0	4738.2
45°	3407.8	3432.3	3432.3	3456.5	3493.0	3499.0	3511.0	3517.3	3529.3	3559.8	3571.8
47.5°	2557.4	2563.4	2563.4	2569.7	2581.7	2593.9	2587.9	2593.9	2612.2	2599.9	2612.2
50°	1889.3	1895.3	1877.0	1858.8	1877.0	1877.0	1871.0	1852.8	1871.0	1846.8	1858.8
52.5°	1288.0	1281.7	1263.4	1269.7	1257.4	1251.4	1251.4	1239.2	1239.2	1239.2	1214.9
55°	814.1	814.1	801.9	801.9	795.9	783.6	777.6	771.4	765.4	759.4	759.4
57.5°	455.6	461.6	443.6	437.3	443.6	437.3	425.3	425.3	425.3	407.1	419.1
60°	249.0	243.0	237.0	230.8	224.8	230.8	230.8	218.8	218.8	218.8	224.8
62.5°	133.5	133.5	127.5	127.5	121.5	121.5	133.5	115.5	121.5	115.5	121.5
65°	73.0	91.0	66.8	66.8	85.0	79.0	73.0	73.0	79.0	66.8	73.0
67.5°	79.0	54.8	48.5	54.8	48.5	48.5	48.5	60.8	54.8	42.5	54.8
70°	36.5	42.5	42.5	30.3	48.5	24.3	42.5	24.3	36.5	30.3	36.5
72.5°	36.5	36.5	36.5	24.3	36.5	24.3	30.3	30.3	24.3	24.3	36.5
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°	12.3	12.3	6.0	6.0	6.0	6.0	12.3	12.3	12.3	0.0	6.0
80°	12.3	12.3	0.0	6.0	0.0	0.0	6.0	0.0	6.0	0.0	12.3
82.5°	6.0	12.3	6.0	6.0	12.3	12.3	12.3	6.0	6.0	6.0	6.0
85°	0.0	6.0	0.0	0.0	0.0	0.0	12.3	0.0	0.0	0.0	6.0
87.5°	0.0	6.0	0.0	0.0	0.0	0.0	6.0	6.0	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: P249713

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBSW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	12999.8	12999.8	12999.8	12999.8
2.5°	13346.1	13352.1	13364.3	13358.3
5°	14050.7	14099.4	14123.7	14117.7
7.5°	14712.8	14798.1	14846.6	14846.6
10°	15223.1	15320.4	15393.2	15405.4
12.5°	15496.4	15605.9	15703.2	15678.7
15°	15575.4	15684.9	15782.0	15763.7
17.5°	15484.4	15593.7	15666.7	15654.4
20°	15235.4	15326.4	15399.4	15393.2
22.5°	14846.6	14925.6	14986.3	14980.1
25°	14190.5	14245.2	14293.7	14269.5
27.5°	13182.1	13200.3	13230.6	13194.3
30°	11839.6	11851.6	11863.8	11857.8
32.5°	10333.1	10326.9	10314.9	10302.6
35°	8808.4	8808.4	8814.4	8777.9
37.5°	7423.2	7417.2	7435.4	7417.2
40°	6099.0	6093.0	6117.2	6086.9
42.5°	4756.5	4774.7	4780.7	4780.7
45°	3578.1	3584.1	3590.1	3590.1
47.5°	2612.2	2618.2	2648.7	2612.2
50°	1846.8	1852.8	1858.8	1846.8
52.5°	1220.9	1227.2	1220.9	1202.7
55°	747.1	753.4	753.4	753.4
57.5°	400.8	407.1	407.1	400.8
60°	218.8	212.5	218.8	206.5
62.5°	115.5	127.5	121.5	109.3
65°	73.0	73.0	73.0	85.0
67.5°	60.8	48.5	54.8	42.5
70°	36.5	42.5	42.5	30.3
72.5°	30.3	30.3	30.3	36.5
75°	0.0	0.0	0.0	0.0
77.5°	12.3	12.3	12.3	6.0
80°	6.0	0.0	6.0	0.0
82.5°	6.0	6.0	12.3	6.0
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)