

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: P249783

Luminaire Tested: **LD8B200D010 ER8B200930 8LBSW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249783
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 ER8B200930 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18879.9 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

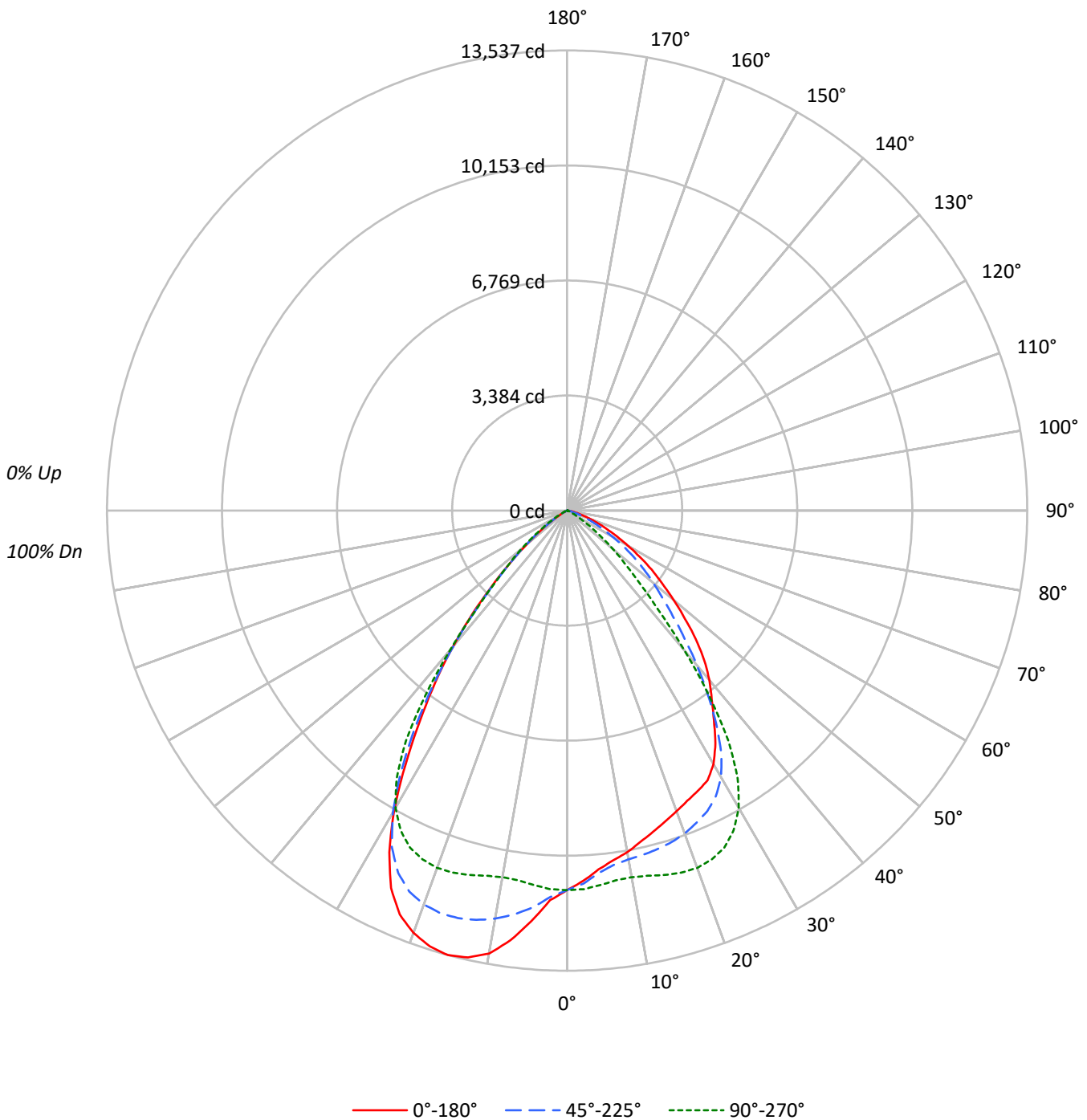
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P249783

CATALOG NUMBER: LD8B200D010 ER8B200930 8LBSW0LI

Luminous Intensity Polar Plot





TEST NUMBER: P249783

CATALOG NUMBER: LD8B200D010 ER8B200930 8LBSW0LI

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



TEST NUMBER: P249783

CATALOG NUMBER: LD8B200D010 ER8B200930 8LBSW0LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1073.2	5.7
10°-20°	3212.0	17.0
20°-30°	4918.9	26.1
30°-40°	4822.1	25.5
40°-50°	2903.9	15.4
50°-60°	1336.6	7.1
60°-70°	469.5	2.5
70°-80°	122.8	0.7
80°-90°	20.9	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°	9204.1	48.8
0°-40°	14026.2	74.3
0°-60°	18266.6	96.8
0°-90°	18879.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18879.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11164	11164	11164	11164	11164	
5°	10595	10694	11059	11722	12124	###
15°	9781	10308	11096	12411	13537	2763
25°	9098	9755	10940	11764	12254	4190
35°	7528	7632	8263	7788	7538	4715
45°	5347	4403	2984	3005	3083	4100
55°	3036	2405	855	673	647	2709
65°	1289	892	136	68	73	1313
75°	334	193	10	0	0	405
85°	52	26	5	0	0	72
90°	0	0	0	0	0	



TEST NUMBER: P249783

CATALOG NUMBER: LD8B200D010 ER8B200930 8LBSW0LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	11163.7	11163.7	11163.7	11163.7	11163.7	11163.7	11163.7	11163.7	11163.7	11163.7	11163.7
2.5°	10902.8	10913.4	10913.4	10913.4	10934.1	10939.5	10934.1	10939.5	10949.8	10986.4	11002.1
5°	10595.1	10579.4	10590.0	10584.6	10610.8	10626.5	10616.0	10631.7	10668.1	10694.3	10720.3
7.5°	10376.1	10376.1	10376.1	10386.4	10402.1	10433.5	10428.3	10438.6	10475.1	10511.6	10548.0
10°	10203.9	10198.7	10198.7	10224.8	10245.6	10282.0	10292.6	10324.0	10370.7	10417.8	10459.4
12.5°	9979.5	9984.9	10010.9	10037.1	10083.8	10141.2	10172.5	10214.4	10287.4	10365.6	10412.6
15°	9781.3	9786.4	9807.5	9859.5	9917.0	9984.9	10052.6	10120.4	10209.1	10308.3	10391.8
17.5°	9588.2	9593.4	9609.1	9666.6	9739.7	9828.4	9906.5	9995.2	10110.1	10224.8	10329.1
20°	9410.9	9405.8	9431.8	9483.9	9577.9	9661.3	9739.7	9844.1	9969.2	10110.1	10229.9
22.5°	9238.7	9238.7	9265.0	9317.1	9400.6	9483.9	9567.5	9676.9	9802.1	9937.9	10078.7
25°	9097.8	9092.7	9129.2	9155.4	9217.9	9301.4	9390.1	9478.7	9603.9	9755.4	9890.8
27.5°	8946.7	8941.5	8946.7	8978.1	9035.4	9097.8	9165.7	9244.1	9348.5	9473.6	9603.9
30°	8612.8	8617.9	8617.9	8644.1	8675.5	8743.1	8779.7	8858.0	8951.9	9056.2	9171.1
32.5°	8117.2	8122.3	8122.3	8132.9	8158.9	8190.3	8221.5	8278.9	8351.9	8440.6	8544.9
35°	7527.7	7527.7	7522.5	7527.7	7543.4	7543.4	7569.4	7543.4	7580.0	7632.1	7710.4
37.5°	6985.2	6974.6	6964.3	6953.8	6938.2	6912.2	6875.7	6813.0	6797.3	6776.4	6781.6
40°	6505.3	6500.1	6468.7	6442.6	6390.4	6327.9	6239.3	6129.7	6041.1	5936.7	5848.0
42.5°	5973.1	5967.9	5941.9	5894.8	5837.5	5743.7	5602.8	5456.8	5279.5	5122.9	4961.2
45°	5347.1	5362.8	5326.2	5274.1	5206.1	5117.5	4961.2	4783.6	4606.3	4403.0	4199.4
47.5°	4695.0	4689.8	4663.8	4632.4	4575.1	4486.5	4382.1	4189.1	4001.2	3813.5	3604.8
50°	4089.9	4069.0	4058.5	4027.4	3990.9	3917.9	3808.1	3651.5	3484.7	3307.4	3114.4
52.5°	3516.1	3516.1	3489.9	3469.0	3437.8	3380.4	3286.5	3161.3	3020.5	2853.5	2650.2
55°	3036.2	3025.7	2999.7	2973.5	2942.2	2905.6	2822.3	2718.0	2566.6	2404.9	2227.5
57.5°	2524.9	2519.6	2509.2	2478.0	2462.3	2425.7	2331.9	2227.5	2097.2	1956.4	1810.1
60°	2065.9	2045.0	2024.0	2003.1	1977.2	1940.7	1878.0	1789.3	1679.8	1554.6	1408.5
62.5°	1653.8	1685.0	1622.4	1622.4	1570.3	1538.9	1481.6	1429.4	1314.5	1199.9	1074.7
65°	1288.6	1288.6	1262.4	1241.5	1210.2	1173.7	1116.4	1064.2	980.7	892.0	803.3
67.5°	986.0	980.7	954.6	933.8	907.7	886.8	845.1	782.5	720.0	646.9	573.7
70°	725.2	720.0	714.6	678.1	657.2	631.2	600.0	558.3	511.3	459.0	391.2
72.5°	521.6	521.6	506.1	490.4	469.6	448.5	417.5	391.2	349.5	313.1	266.0
75°	333.9	328.8	328.8	302.6	302.6	271.2	250.3	234.7	213.9	193.0	151.3
77.5°	240.0	234.7	229.6	219.0	208.7	198.2	182.5	161.6	146.1	125.2	109.5
80°	161.6	151.3	146.1	146.1	130.4	125.2	130.4	99.2	93.8	78.1	67.8
82.5°	99.2	99.2	93.8	93.8	88.7	83.5	67.8	67.8	62.7	57.3	47.0
85°	52.1	67.8	47.0	52.1	47.0	52.1	47.0	36.5	31.4	26.0	26.0
87.5°	31.4	20.9	20.9	31.4	26.0	20.9	20.9	20.9	15.7	10.5	10.5
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: P249783

CATALOG NUMBER: LD8B200D010 ER8B200930 8LBSW0LI

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	11163.7	11163.7	11163.7	11163.7	11163.7	11163.7	11163.7	11163.7	11163.7	11163.7	11163.7
2.5°	10991.7	11028.2	11022.9	11069.9	11085.6	11122.1	11122.1	11148.0	11163.7	11200.2	11231.5
5°	10730.9	10788.2	10803.9	10861.1	10908.2	10965.5	11002.1	11059.3	11111.6	11189.9	11262.9
7.5°	10569.1	10616.0	10647.3	10715.2	10767.3	10829.9	10892.5	10970.7	11043.6	11137.7	11242.1
10°	10490.8	10553.4	10600.3	10668.1	10730.9	10798.7	10861.1	10949.8	11033.3	11153.4	11268.1
12.5°	10469.9	10542.9	10600.3	10694.3	10756.8	10829.9	10902.8	11002.1	11090.7	11215.9	11346.4
15°	10469.9	10569.1	10647.3	10751.6	10824.7	10918.5	10996.9	11095.9	11195.1	11325.4	11450.6
17.5°	10449.1	10569.1	10668.1	10788.2	10882.0	10976.0	11075.0	11169.1	11273.2	11398.7	11539.2
20°	10365.6	10517.0	10636.8	10777.6	10876.8	10981.2	11080.4	11184.6	11294.3	11424.6	11544.6
22.5°	10219.6	10396.9	10532.7	10683.8	10798.7	10902.8	11002.1	11106.4	11226.4	11351.6	11476.8
25°	10026.6	10193.4	10339.7	10495.9	10610.8	10725.5	10819.6	10939.5	11049.0	11169.1	11268.1
27.5°	9734.3	9911.7	10052.6	10214.4	10318.6	10428.3	10506.5	10605.7	10710.0	10809.0	10887.4
30°	9296.2	9458.0	9603.9	9750.0	9854.4	9932.7	10016.0	10094.4	10162.2	10229.9	10297.7
32.5°	8654.5	8800.6	8941.5	9077.1	9160.6	9228.4	9290.8	9337.9	9374.5	9410.9	9416.1
35°	7773.0	7892.8	7981.5	8101.6	8179.9	8242.4	8242.4	8263.2	8258.1	8242.4	8226.7
37.5°	6787.0	6833.8	6870.3	6917.4	6922.5	6922.5	6891.3	6865.1	6823.5	6813.0	6781.6
40°	5759.4	5696.6	5649.6	5587.1	5550.6	5472.3	5404.6	5357.6	5289.8	5279.5	5268.9
42.5°	4783.6	4637.6	4507.3	4397.8	4272.6	4162.8	4063.8	3990.9	3938.6	3933.4	3938.6
45°	3990.9	3823.8	3630.8	3479.6	3338.8	3203.0	3072.7	2984.0	2937.0	2926.5	2937.0
47.5°	3390.9	3197.9	3010.0	2837.8	2686.6	2535.3	2404.9	2284.8	2227.5	2211.8	2206.7
50°	2916.2	2718.0	2519.6	2342.2	2175.4	2024.0	1862.3	1747.6	1674.7	1648.4	1627.6
52.5°	2452.0	2274.6	2071.0	1888.5	1721.4	1544.1	1377.3	1246.7	1173.7	1142.5	1121.4
55°	2045.0	1867.7	1679.8	1502.5	1325.0	1147.7	980.7	855.4	777.3	740.8	714.6
57.5°	1632.7	1465.9	1304.3	1126.8	980.7	808.7	641.5	532.1	464.2	422.6	401.8
60°	1262.4	1132.0	991.2	845.1	704.3	563.4	427.8	323.4	271.2	240.0	213.9
62.5°	954.6	845.1	751.1	626.0	516.4	396.4	292.2	208.7	161.6	135.8	125.2
65°	688.6	605.1	521.6	443.4	365.2	276.6	198.2	135.8	93.8	78.1	73.0
67.5°	490.4	422.6	359.8	307.7	250.3	198.2	140.9	93.8	73.0	62.7	57.3
70°	344.1	292.2	250.3	203.6	166.8	130.4	109.5	67.8	41.7	47.0	36.5
72.5°	229.6	193.0	172.2	140.9	114.7	93.8	67.8	47.0	47.0	36.5	31.4
75°	125.2	114.7	88.7	67.8	57.3	52.1	20.9	10.5	5.2	15.7	5.2
77.5°	88.7	78.1	67.8	57.3	47.0	36.5	20.9	20.9	15.7	20.9	10.5
80°	57.3	47.0	41.7	41.7	26.0	15.7	10.5	10.5	15.7	5.2	5.2
82.5°	36.5	31.4	26.0	26.0	26.0	15.7	15.7	15.7	15.7	10.5	10.5
85°	20.9	15.7	10.5	10.5	5.2	10.5	0.0	5.2	5.2	0.0	0.0
87.5°	10.5	5.2	5.2	5.2	5.2	0.0	0.0	5.2	0.0	5.2	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: P249783

CATALOG NUMBER: LD8B200D010 ER8B200930 8LBSW0LI

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	11163.7	11163.7	11163.7	11163.7	11163.7	11163.7	11163.7	11163.7	11163.7	11163.7	11163.7
2.5°	11252.4	11273.2	11299.5	11320.2	11367.3	11377.6	11398.7	11419.4	11435.1	11450.6	11455.9
5°	11325.4	11403.8	11476.8	11554.9	11654.1	11722.0	11800.2	11868.0	11935.8	11993.2	12034.8
7.5°	11346.4	11466.3	11576.0	11711.4	11857.5	11982.9	12113.2	12243.6	12379.3	12483.6	12572.4
10°	11388.1	11534.1	11675.0	11836.6	12024.5	12191.4	12353.1	12525.3	12697.5	12843.5	12974.0
12.5°	11461.1	11622.8	11774.2	11951.5	12144.6	12332.2	12509.6	12702.6	12885.3	13047.1	13193.0
15°	11581.2	11732.3	11878.6	12045.4	12238.4	12410.6	12587.9	12775.7	12958.4	13125.2	13260.9
17.5°	11659.3	11800.2	11946.2	12097.5	12259.3	12415.7	12582.7	12749.7	12916.5	13067.8	13193.0
20°	11659.3	11795.0	11904.5	12040.2	12191.4	12327.1	12462.8	12608.8	12754.9	12880.0	13000.0
22.5°	11565.5	11695.8	11779.4	11883.7	12014.0	12128.9	12201.9	12363.6	12473.1	12582.7	12671.3
25°	11346.4	11440.3	11508.2	11581.2	11685.5	11763.7	11826.3	11920.2	12029.7	12071.6	12134.0
27.5°	10949.8	11017.7	11054.2	11069.9	11122.1	11163.7	11174.2	11215.9	11262.9	11273.2	11299.5
30°	10324.0	10329.1	10313.4	10308.3	10282.0	10250.9	10245.6	10240.4	10219.6	10198.7	10203.9
32.5°	9379.5	9353.6	9290.8	9223.3	9155.4	9082.3	9040.5	8988.3	8957.0	8925.9	8889.3
35°	8158.9	8096.4	8007.8	7924.1	7846.0	7788.5	7694.7	7663.3	7632.1	7590.3	7580.0
37.5°	6724.3	6687.8	6604.3	6541.8	6500.1	6473.9	6426.9	6395.8	6395.8	6380.1	6369.5
40°	5242.7	5232.4	5201.0	5216.7	5195.8	5206.1	5201.0	5190.6	5216.7	5216.7	5227.2
42.5°	3933.4	3938.6	3954.3	3964.6	3996.0	4001.2	4027.4	4027.4	4043.0	4058.5	4069.0
45°	2926.5	2947.6	2947.6	2968.3	2999.7	3004.8	3015.2	3020.5	3030.8	3057.1	3067.3
47.5°	2196.2	2201.3	2201.3	2206.7	2217.0	2227.5	2222.4	2227.5	2243.2	2232.7	2243.2
50°	1622.4	1627.6	1611.9	1596.3	1611.9	1611.9	1606.7	1591.1	1606.7	1586.0	1596.3
52.5°	1106.1	1100.7	1085.0	1090.4	1079.9	1074.7	1074.7	1064.2	1064.2	1064.2	1043.3
55°	699.2	699.2	688.6	688.6	683.5	672.9	667.8	662.4	657.2	652.1	652.1
57.5°	391.2	396.4	380.9	375.5	380.9	375.5	365.2	365.2	365.2	349.5	359.8
60°	213.9	208.7	203.6	198.2	193.0	198.2	198.2	187.9	187.9	187.9	193.0
62.5°	114.7	114.7	109.5	109.5	104.4	104.4	114.7	99.2	104.4	99.2	104.4
65°	62.7	78.1	57.3	57.3	73.0	67.8	62.7	62.7	67.8	57.3	62.7
67.5°	67.8	47.0	41.7	47.0	41.7	41.7	41.7	52.1	47.0	36.5	47.0
70°	31.4	36.5	36.5	26.0	41.7	20.9	36.5	20.9	31.4	26.0	31.4
72.5°	31.4	31.4	31.4	20.9	31.4	20.9	26.0	26.0	20.9	20.9	31.4
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°	10.5	10.5	5.2	5.2	5.2	5.2	10.5	10.5	10.5	0.0	5.2
80°	10.5	10.5	0.0	5.2	0.0	0.0	5.2	0.0	5.2	0.0	10.5
82.5°	5.2	10.5	5.2	5.2	10.5	10.5	10.5	5.2	5.2	5.2	5.2
85°	0.0	5.2	0.0	0.0	0.0	0.0	10.5	0.0	0.0	0.0	5.2
87.5°	0.0	5.2	0.0	0.0	0.0	0.0	5.2	5.2	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: P249783

CATALOG NUMBER: LD8B200D010 ER8B200930 8LBSWOLI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	11163.7	11163.7	11163.7	11163.7
2.5°	11461.1	11466.3	11476.8	11471.6
5°	12066.2	12108.0	12128.9	12123.7
7.5°	12634.8	12708.0	12749.7	12749.7
10°	13073.0	13156.6	13219.1	13229.6
12.5°	13307.7	13401.8	13485.3	13464.2
15°	13375.5	13469.6	13553.0	13537.3
17.5°	13297.4	13391.2	13453.9	13443.5
20°	13083.5	13161.8	13224.4	13219.1
22.5°	12749.7	12817.5	12869.6	12864.4
25°	12186.3	12233.2	12275.0	12254.1
27.5°	11320.2	11335.9	11361.9	11330.7
30°	10167.4	10177.7	10188.2	10183.1
32.5°	8873.7	8868.3	8858.0	8847.5
35°	7564.3	7564.3	7569.4	7538.1
37.5°	6374.7	6369.5	6385.2	6369.5
40°	5237.5	5232.4	5253.2	5227.2
42.5°	4084.7	4100.4	4105.6	4105.6
45°	3072.7	3077.8	3083.0	3083.0
47.5°	2243.2	2248.4	2274.6	2243.2
50°	1586.0	1591.1	1596.3	1586.0
52.5°	1048.5	1053.9	1048.5	1032.8
55°	641.5	646.9	646.9	646.9
57.5°	344.1	349.5	349.5	344.1
60°	187.9	182.5	187.9	177.3
62.5°	99.2	109.5	104.4	93.8
65°	62.7	62.7	62.7	73.0
67.5°	52.1	41.7	47.0	36.5
70°	31.4	36.5	36.5	26.0
72.5°	26.0	26.0	26.0	31.4
75°	0.0	0.0	0.0	0.0
77.5°	10.5	10.5	10.5	5.2
80°	5.2	0.0	5.2	0.0
82.5°	5.2	5.2	10.5	5.2
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)