

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: P249769

Luminaire Tested: **LD8B200D010 ER8B200950 8LBSW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249769
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 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 5000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21083.0 lumens
Efficiency: N/A
Efficacy: 94.4 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

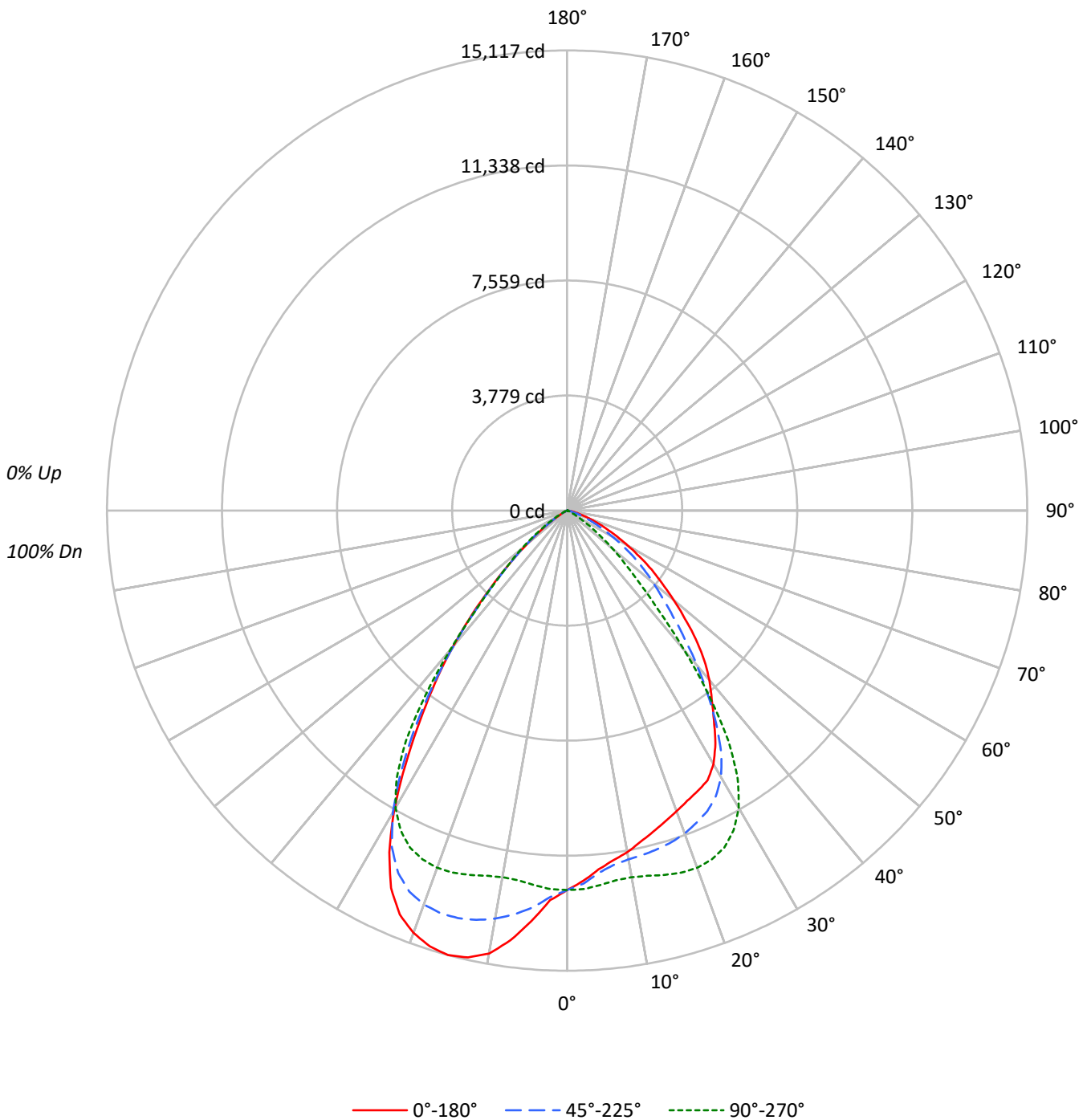
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	384418	384418	384418
5°	366233	382280	419072
10°	356788	382871	462582
15°	348697	395562	482597
20°	344859	409854	484407
25°	345668	415642	465586
30°	342458	401370	404895
35°	316445	347362	316877
40°	292421	240831	234970
45°	260390	145314	150138
50°	219097	93624	84960
55°	182278	51358	38843
60°	142273	22270	12217
65°	104989	11054	5947
70°	73002	6834	2615
75°	44428	1394	0
80°	32071	2078	0
85°	20627	2052	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1198.4	5.7
10°-20°	3586.8	17.0
20°-30°	5492.8	26.1
30°-40°	5384.8	25.5
40°-50°	3242.7	15.4
50°-60°	1492.5	7.1
60°-70°	524.3	2.5
70°-80°	137.1	0.7
80°-90°	23.4	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°	10278.1	48.8
0°-40°	15662.9	74.3
0°-60°	20398.2	96.8
0°-90°	21083.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21083.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12466	12466	12466	12466	12466	
5°	11832	11942	12350	13090	13538	###
15°	10923	11511	12391	13859	15117	3086
25°	10160	10894	12216	13136	13684	4679
35°	8406	8523	9228	8697	8418	5265
45°	5971	4917	3332	3356	3443	4579
55°	3390	2686	955	752	722	3025
65°	1439	996	152	76	82	1466
75°	373	216	12	0	0	452
85°	58	29	6	0	0	80
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°	12466.4	12466.4	12466.4	12466.4	12466.4	12466.4	12466.4	12466.4	12466.4	12466.4	12466.4
2.5°	12175.1	12186.8	12186.8	12186.8	12210.1	12216.1	12210.1	12216.1	12227.6	12268.4	12285.9
5°	11831.5	11814.0	11825.7	11819.7	11849.0	11866.5	11854.7	11872.2	11913.0	11942.3	11971.3
7.5°	11586.9	11586.9	11586.9	11598.4	11615.9	11650.9	11645.2	11656.7	11697.4	11738.2	11779.0
10°	11394.6	11388.8	11388.8	11417.9	11441.1	11481.9	11493.6	11528.6	11580.9	11633.4	11679.9
12.5°	11144.0	11150.0	11179.0	11208.3	11260.6	11324.6	11359.6	11406.4	11487.9	11575.2	11627.7
15°	10922.7	10928.5	10952.0	11010.0	11074.3	11150.0	11225.6	11301.3	11400.4	11511.1	11604.4
17.5°	10707.2	10712.9	10730.4	10794.7	10876.2	10975.2	11062.5	11161.5	11289.8	11417.9	11534.4
20°	10509.1	10503.3	10532.4	10590.6	10695.6	10788.7	10876.2	10992.7	11132.5	11289.8	11423.6
22.5°	10316.8	10316.8	10346.0	10404.3	10497.6	10590.6	10683.9	10806.2	10946.0	11097.5	11254.8
25°	10159.5	10153.7	10194.5	10223.8	10293.5	10386.8	10485.8	10584.9	10724.7	10893.7	11045.0
27.5°	9990.7	9984.9	9990.7	10025.7	10089.7	10159.5	10235.3	10322.8	10439.3	10579.1	10724.7
30°	9617.8	9623.6	9623.6	9652.8	9687.8	9763.4	9804.1	9891.7	9996.4	10113.0	10241.3
32.5°	9064.4	9070.2	9070.2	9081.9	9110.9	9145.9	9181.0	9245.0	9326.5	9425.5	9542.1
35°	8406.2	8406.2	8400.2	8406.2	8423.7	8423.7	8452.7	8423.7	8464.5	8522.8	8610.0
37.5°	7800.3	7788.5	7777.0	7765.3	7747.8	7718.8	7678.0	7608.0	7590.5	7567.2	7573.0
40°	7264.4	7258.6	7223.6	7194.4	7136.1	7066.3	6967.3	6845.0	6746.0	6629.4	6530.4
42.5°	6670.2	6664.2	6635.2	6582.7	6518.7	6413.9	6256.6	6093.5	5895.5	5720.7	5540.1
45°	5971.0	5988.5	5947.8	5889.5	5813.7	5714.7	5540.1	5341.8	5143.8	4916.7	4689.4
47.5°	5242.8	5237.0	5208.0	5173.0	5109.0	5010.0	4893.4	4677.9	4468.1	4258.5	4025.4
50°	4567.1	4543.8	4532.1	4497.3	4456.6	4375.0	4252.5	4077.7	3891.4	3693.3	3477.8
52.5°	3926.4	3926.4	3897.2	3873.9	3838.9	3774.9	3670.1	3530.3	3373.0	3186.4	2959.4
55°	3390.5	3378.7	3349.7	3320.5	3285.5	3244.7	3151.7	3035.1	2866.1	2685.5	2487.5
57.5°	2819.6	2813.6	2802.1	2767.1	2749.6	2708.8	2604.0	2487.5	2341.9	2184.6	2021.3
60°	2306.9	2283.7	2260.2	2236.9	2207.9	2167.1	2097.1	1998.1	1875.8	1736.0	1573.0
62.5°	1846.8	1881.6	1811.8	1811.8	1753.5	1718.5	1654.5	1596.2	1467.9	1339.9	1200.1
65°	1438.9	1438.9	1409.7	1386.4	1351.4	1310.6	1246.6	1188.4	1095.1	996.0	897.0
67.5°	1101.1	1095.1	1066.1	1042.8	1013.6	990.3	943.8	873.8	804.0	722.5	640.7
70°	809.7	804.0	798.0	757.2	734.0	705.0	669.9	623.4	570.9	512.7	436.9
72.5°	582.4	582.4	565.2	547.7	524.4	500.9	466.1	436.9	390.4	349.6	297.1
75°	372.9	367.1	367.1	337.9	337.9	302.8	279.6	262.1	238.8	215.6	169.0
77.5°	268.1	262.1	256.3	244.6	233.1	221.3	203.8	180.6	163.1	139.8	122.3
80°	180.6	169.0	163.1	163.1	145.5	139.8	145.5	110.8	104.8	87.3	75.8
82.5°	110.8	110.8	104.8	104.8	99.0	93.3	75.8	75.8	70.0	64.0	52.5
85°	58.3	75.8	52.5	58.3	52.5	58.3	52.5	40.8	35.0	29.0	29.0
87.5°	35.0	23.3	23.3	35.0	29.0	23.3	23.3	23.3	17.5	11.7	11.7
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°	12466.4	12466.4	12466.4	12466.4	12466.4	12466.4	12466.4	12466.4	12466.4	12466.4	12466.4
2.5°	12274.4	12315.1	12309.1	12361.6	12379.1	12419.9	12419.9	12448.9	12466.4	12507.2	12542.2
5°	11983.0	12047.0	12064.6	12128.6	12181.1	12245.1	12285.9	12349.9	12408.2	12495.7	12577.2
7.5°	11802.5	11854.7	11889.8	11965.5	12023.8	12093.6	12163.6	12250.9	12332.4	12437.4	12553.9
10°	11715.0	11785.0	11837.2	11913.0	11983.0	12058.8	12128.6	12227.6	12320.9	12454.9	12583.0
12.5°	11691.7	11773.2	11837.2	11942.3	12012.0	12093.6	12175.1	12285.9	12384.9	12524.7	12670.5
15°	11691.7	11802.5	11889.8	12006.3	12087.8	12192.6	12280.1	12390.7	12501.4	12647.0	12786.8
17.5°	11668.4	11802.5	11913.0	12047.0	12151.8	12256.9	12367.4	12472.4	12588.7	12728.7	12885.8
20°	11575.2	11744.2	11878.0	12035.3	12146.1	12262.6	12373.4	12489.7	12612.2	12757.8	12891.8
22.5°	11412.1	11610.2	11761.7	11930.5	12058.8	12175.1	12285.9	12402.4	12536.4	12676.2	12816.0
25°	11196.5	11382.9	11546.1	11720.7	11849.0	11977.0	12082.1	12216.1	12338.4	12472.4	12583.0
27.5°	10870.2	11068.3	11225.6	11406.4	11522.6	11645.2	11732.5	11843.2	11959.8	12070.3	12157.8
30°	10381.1	10561.6	10724.7	10887.7	11004.2	11091.8	11184.8	11272.3	11348.1	11423.6	11499.4
32.5°	9664.3	9827.6	9984.9	10136.2	10229.5	10305.3	10375.1	10427.6	10468.3	10509.1	10514.8
35°	8680.1	8813.8	8912.9	9046.9	9134.4	9204.2	9204.2	9227.5	9221.7	9204.2	9186.7
37.5°	7579.0	7631.3	7672.0	7724.5	7730.3	7730.3	7695.5	7666.3	7619.7	7608.0	7573.0
40°	6431.4	6361.4	6308.9	6239.1	6198.3	6110.8	6035.3	5982.8	5907.0	5895.5	5883.7
42.5°	5341.8	5178.8	5033.2	4910.9	4771.2	4648.6	4538.1	4456.6	4398.3	4392.3	4398.3
45°	4456.6	4270.0	4054.4	3885.6	3728.3	3576.8	3431.3	3332.2	3279.7	3268.0	3279.7
47.5°	3786.6	3571.0	3361.2	3168.9	3000.1	2831.1	2685.5	2551.5	2487.5	2470.0	2464.2
50°	3256.5	3035.1	2813.6	2615.5	2429.2	2260.2	2079.6	1951.6	1870.0	1840.8	1817.5
52.5°	2738.1	2540.0	2312.7	2108.9	1922.3	1724.3	1538.0	1392.2	1310.6	1275.9	1252.4
55°	2283.7	2085.6	1875.8	1677.7	1479.7	1281.6	1095.1	955.3	868.0	827.2	798.0
57.5°	1823.3	1637.0	1456.4	1258.4	1095.1	903.0	716.5	594.2	518.4	471.9	448.6
60°	1409.7	1264.1	1106.8	943.8	786.5	629.2	477.6	361.1	302.8	268.1	238.8
62.5°	1066.1	943.8	838.8	699.0	576.7	442.6	326.3	233.1	180.6	151.5	139.8
65°	769.0	675.7	582.4	495.1	407.9	308.8	221.3	151.5	104.8	87.3	81.5
67.5°	547.7	471.9	401.9	343.6	279.6	221.3	157.3	104.8	81.5	70.0	64.0
70°	384.4	326.3	279.6	227.3	186.3	145.5	122.3	75.8	46.5	52.5	40.8
72.5°	256.3	215.6	192.3	157.3	128.0	104.8	75.8	52.5	52.5	40.8	35.0
75°	139.8	128.0	99.0	75.8	64.0	58.3	23.3	11.7	5.8	17.5	5.8
77.5°	99.0	87.3	75.8	64.0	52.5	40.8	23.3	23.3	17.5	23.3	11.7
80°	64.0	52.5	46.5	46.5	29.0	17.5	11.7	11.7	17.5	5.8	5.8
82.5°	40.8	35.0	29.0	29.0	29.0	17.5	17.5	17.5	17.5	11.7	11.7
85°	23.3	17.5	11.7	11.7	5.8	11.7	0.0	5.8	5.8	0.0	0.0
87.5°	11.7	5.8	5.8	5.8	5.8	0.0	0.0	5.8	0.0	5.8	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°	12466.4	12466.4	12466.4	12466.4	12466.4	12466.4	12466.4	12466.4	12466.4	12466.4	12466.4
2.5°	12565.5	12588.7	12618.0	12641.2	12693.7	12705.2	12728.7	12752.0	12769.5	12786.8	12792.8
5°	12647.0	12734.5	12816.0	12903.3	13014.1	13089.9	13177.1	13252.9	13328.7	13392.7	13439.2
7.5°	12670.5	12804.3	12926.8	13078.1	13241.2	13381.2	13526.7	13672.3	13823.8	13940.4	14039.4
10°	12717.0	12880.0	13037.3	13217.9	13427.7	13614.0	13794.6	13986.9	14179.2	14342.2	14488.0
12.5°	12798.5	12979.1	13148.1	13346.2	13561.7	13771.3	13969.4	14184.9	14389.0	14569.5	14732.6
15°	12932.6	13101.4	13264.7	13451.0	13666.5	13858.8	14056.9	14266.5	14470.5	14656.8	14808.4
17.5°	13019.8	13177.1	13340.2	13509.2	13689.8	13864.6	14050.9	14237.4	14423.7	14592.8	14732.6
20°	13019.8	13171.4	13293.7	13445.2	13614.0	13765.6	13917.1	14080.1	14243.2	14383.0	14517.0
22.5°	12915.1	13060.6	13153.9	13270.4	13416.0	13544.2	13625.8	13806.3	13928.6	14050.9	14149.9
25°	12670.5	12775.3	12851.0	12932.6	13049.1	13136.4	13206.4	13311.2	13433.5	13480.2	13550.0
27.5°	12227.6	12303.4	12344.1	12361.6	12419.9	12466.4	12478.2	12524.7	12577.2	12588.7	12618.0
30°	11528.6	11534.4	11516.9	11511.1	11481.9	11447.1	11441.1	11435.4	11412.1	11388.8	11394.6
32.5°	10474.1	10445.1	10375.1	10299.5	10223.8	10142.2	10095.5	10037.2	10002.2	9967.4	9926.7
35°	9110.9	9041.2	8942.1	8848.9	8761.6	8697.3	8592.5	8557.5	8522.8	8476.0	8464.5
37.5°	7509.0	7468.2	7374.9	7305.1	7258.6	7229.4	7176.9	7142.1	7142.1	7124.6	7112.8
40°	5854.5	5843.0	5808.0	5825.5	5802.2	5813.7	5808.0	5796.2	5825.5	5825.5	5837.2
42.5°	4392.3	4398.3	4415.8	4427.3	4462.3	4468.1	4497.3	4497.3	4514.8	4532.1	4543.8
45°	3268.0	3291.5	3291.5	3314.7	3349.7	3355.5	3367.0	3373.0	3384.5	3413.8	3425.3
47.5°	2452.5	2458.2	2458.2	2464.2	2475.7	2487.5	2481.7	2487.5	2505.0	2493.2	2505.0
50°	1811.8	1817.5	1800.0	1782.5	1800.0	1800.0	1794.3	1776.8	1794.3	1771.0	1782.5
52.5°	1235.1	1229.1	1211.6	1217.6	1205.9	1200.1	1200.1	1188.4	1188.4	1188.4	1165.1
55°	780.7	780.7	769.0	769.0	763.2	751.5	745.7	739.7	734.0	728.2	728.2
57.5°	436.9	442.6	425.4	419.4	425.4	419.4	407.9	407.9	407.9	390.4	401.9
60°	238.8	233.1	227.3	221.3	215.6	221.3	221.3	209.8	209.8	209.8	215.6
62.5°	128.0	128.0	122.3	122.3	116.5	116.5	128.0	110.8	116.5	110.8	116.5
65°	70.0	87.3	64.0	64.0	81.5	75.8	70.0	70.0	75.8	64.0	70.0
67.5°	75.8	52.5	46.5	52.5	46.5	46.5	46.5	58.3	52.5	40.8	52.5
70°	35.0	40.8	40.8	29.0	46.5	23.3	40.8	23.3	35.0	29.0	35.0
72.5°	35.0	35.0	35.0	23.3	35.0	23.3	29.0	29.0	23.3	23.3	35.0
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°	11.7	11.7	5.8	5.8	5.8	5.8	11.7	11.7	11.7	0.0	5.8
80°	11.7	11.7	0.0	5.8	0.0	0.0	5.8	0.0	5.8	0.0	11.7
82.5°	5.8	11.7	5.8	5.8	11.7	11.7	11.7	5.8	5.8	5.8	5.8
85°	0.0	5.8	0.0	0.0	0.0	0.0	11.7	0.0	0.0	0.0	5.8
87.5°	0.0	5.8	0.0	0.0	0.0	0.0	5.8	5.8	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: P249769

CATALOG NUMBER: LD8B200D010 ER8B200950 8LBSW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	12466.4	12466.4	12466.4	12466.4
2.5°	12798.5	12804.3	12816.0	12810.3
5°	13474.2	13521.0	13544.2	13538.5
7.5°	14109.2	14190.9	14237.4	14237.4
10°	14598.5	14691.8	14761.6	14773.3
12.5°	14860.6	14965.7	15058.9	15035.4
15°	14936.4	15041.4	15134.5	15117.0
17.5°	14849.1	14953.9	15023.9	15012.2
20°	14610.3	14697.6	14767.6	14761.6
22.5°	14237.4	14313.2	14371.5	14365.5
25°	13608.3	13660.8	13707.3	13684.0
27.5°	12641.2	12658.7	12687.7	12653.0
30°	11353.8	11365.4	11377.1	11371.3
32.5°	9909.2	9903.2	9891.7	9879.9
35°	8447.0	8447.0	8452.7	8417.7
37.5°	7118.6	7112.8	7130.3	7112.8
40°	5848.7	5843.0	5866.2	5837.2
42.5°	4561.3	4578.8	4584.6	4584.6
45°	3431.3	3437.0	3442.8	3442.8
47.5°	2505.0	2510.7	2540.0	2505.0
50°	1771.0	1776.8	1782.5	1771.0
52.5°	1170.8	1176.8	1170.8	1153.3
55°	716.5	722.5	722.5	722.5
57.5°	384.4	390.4	390.4	384.4
60°	209.8	203.8	209.8	198.1
62.5°	110.8	122.3	116.5	104.8
65°	70.0	70.0	70.0	81.5
67.5°	58.3	46.5	52.5	40.8
70°	35.0	40.8	40.8	29.0
72.5°	29.0	29.0	29.0	35.0
75°	0.0	0.0	0.0	0.0
77.5°	11.7	11.7	11.7	5.8
80°	5.8	0.0	5.8	0.0
82.5°	5.8	5.8	11.7	5.8
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)