

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: P249727

Luminaire Tested: **LD8B200D010 ER8B200840 8LBSW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249727
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 ER8B200840 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 4000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22713.0 lumens
Efficiency: N/A
Efficacy: 101.7 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

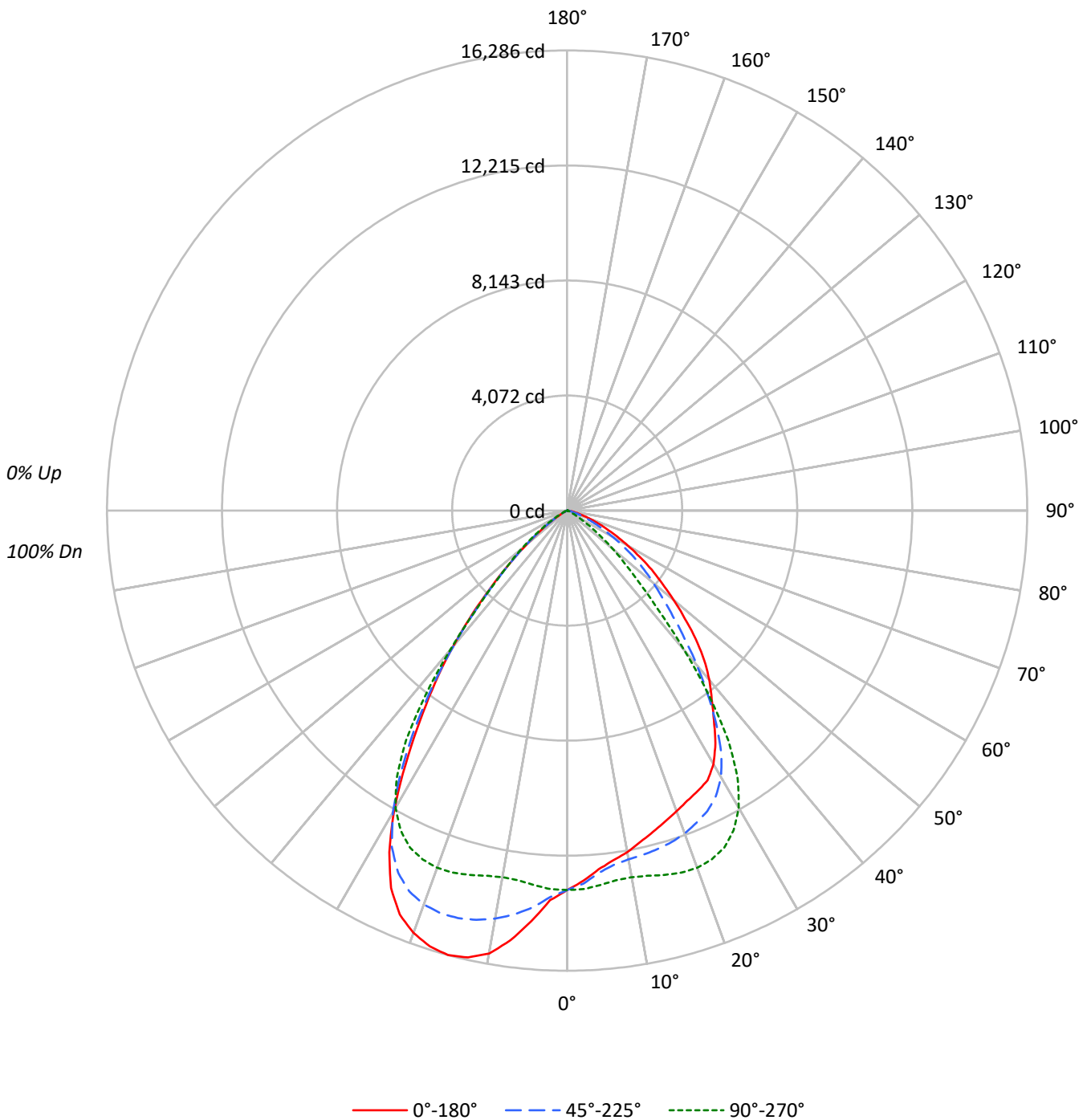
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	414138	414138	414138
5°	394547	411835	451472
10°	384374	412473	498346
15°	375657	426142	519906
20°	371522	441540	521859
25°	372394	447778	501583
30°	368935	432401	436200
35°	340910	374217	341376
40°	315027	259449	253137
45°	280524	156552	161742
50°	236036	100863	91527
55°	196369	55326	41843
60°	153275	23991	13161
65°	113110	11915	6406
70°	78646	7357	2822
75°	47859	1513	0
80°	34539	2255	0
85°	22219	2194	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1291.1	5.7
10°-20°	3864.1	17.0
20°-30°	5917.5	26.1
30°-40°	5801.1	25.5
40°-50°	3493.4	15.4
50°-60°	1607.9	7.1
60°-70°	564.9	2.5
70°-80°	147.8	0.7
80°-90°	25.2	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°	11072.7	48.8
0°-40°	16873.9	74.3
0°-60°	21975.2	96.8
0°-90°	22713.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22713.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13430	13430	13430	13430	13430	
5°	12746	12866	13305	14102	14585	###
15°	11767	12401	13349	14930	16286	3325
25°	10945	11736	13161	14152	14742	5041
35°	9056	9182	9941	9370	9068	5672
45°	6433	5297	3590	3615	3709	4933
55°	3653	2893	1029	810	778	3259
65°	1550	1073	163	82	88	1579
75°	402	232	13	0	0	487
85°	63	31	6	0	0	86
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°	13430.2	13430.2	13430.2	13430.2	13430.2	13430.2	13430.2	13430.2	13430.2	13430.2	13430.2
2.5°	13116.4	13129.0	13129.0	13129.0	13154.1	13160.6	13154.1	13160.6	13173.0	13216.9	13235.7
5°	12746.2	12727.4	12740.0	12733.6	12765.1	12783.9	12771.3	12790.1	12834.0	12865.6	12896.8
7.5°	12482.7	12482.7	12482.7	12495.1	12514.0	12551.7	12545.5	12557.9	12601.8	12645.7	12689.6
10°	12275.6	12269.4	12269.4	12300.6	12325.7	12369.6	12382.2	12420.0	12476.3	12532.8	12583.0
12.5°	12005.6	12012.1	12043.3	12074.8	12131.2	12200.1	12237.8	12288.2	12376.0	12470.1	12526.6
15°	11767.2	11773.4	11798.7	11861.2	11930.4	12012.1	12093.4	12175.1	12281.8	12401.1	12501.6
17.5°	11535.0	11541.2	11560.0	11629.2	11717.1	11823.8	11917.8	12024.5	12162.7	12300.6	12426.2
20°	11321.6	11315.4	11346.6	11409.4	11522.6	11622.8	11717.1	11842.6	11993.2	12162.7	12306.8
22.5°	11114.4	11114.4	11145.9	11208.7	11309.2	11409.4	11509.9	11641.6	11792.2	11955.5	12125.0
25°	10945.0	10938.8	10982.7	11014.2	11089.4	11189.8	11296.5	11403.2	11553.8	11735.9	11898.9
27.5°	10763.1	10756.9	10763.1	10800.8	10869.8	10945.0	11026.6	11120.9	11246.4	11397.0	11553.8
30°	10361.4	10367.6	10367.6	10399.1	10436.8	10518.2	10562.1	10656.4	10769.3	10894.8	11033.0
32.5°	9765.2	9771.4	9771.4	9784.1	9815.3	9853.0	9890.8	9959.7	10047.6	10154.2	10279.8
35°	9056.1	9056.1	9049.7	9056.1	9075.0	9075.0	9106.2	9075.0	9118.9	9181.7	9275.7
37.5°	8403.4	8390.7	8378.3	8365.6	8346.8	8315.5	8271.6	8196.2	8177.3	8152.3	8158.5
40°	7826.0	7819.8	7782.1	7750.6	7687.8	7612.7	7506.0	7374.2	7267.5	7142.0	7035.3
42.5°	7185.9	7179.5	7148.2	7091.6	7022.7	6909.8	6740.3	6564.7	6351.3	6163.0	5968.5
45°	6432.7	6451.5	6407.6	6344.8	6263.2	6156.5	5968.5	5754.8	5541.5	5296.8	5051.9
47.5°	5648.1	5641.9	5610.7	5573.0	5504.0	5397.3	5271.8	5039.5	4813.5	4587.7	4336.7
50°	4920.2	4895.1	4882.5	4845.0	4801.1	4713.3	4581.3	4393.0	4192.3	3978.9	3746.7
52.5°	4230.0	4230.0	4198.5	4173.4	4135.7	4066.7	3953.8	3803.2	3633.8	3432.8	3188.2
55°	3652.6	3640.0	3608.7	3577.2	3539.5	3495.6	3395.3	3269.8	3087.7	2893.2	2679.8
57.5°	3037.6	3031.1	3018.7	2981.0	2962.1	2918.2	2805.3	2679.8	2523.0	2353.5	2177.6
60°	2485.3	2460.2	2434.9	2409.9	2378.6	2334.7	2259.3	2152.6	2020.8	1870.2	1694.6
62.5°	1989.6	2027.0	1951.9	1951.9	1889.1	1851.4	1782.4	1719.6	1581.4	1443.5	1292.9
65°	1550.2	1550.2	1518.7	1493.6	1455.9	1412.0	1343.0	1280.2	1179.7	1073.1	966.4
67.5°	1186.2	1179.7	1148.5	1123.4	1091.9	1066.9	1016.7	941.3	866.1	778.3	690.2
70°	872.3	866.1	859.7	815.8	790.7	759.5	721.7	671.6	615.1	552.3	470.7
72.5°	627.5	627.5	608.9	590.0	564.9	539.6	502.2	470.7	420.5	376.6	320.1
75°	401.7	395.5	395.5	364.0	364.0	326.3	301.2	282.3	257.3	232.2	182.1
77.5°	288.8	282.3	276.1	263.5	251.1	238.4	219.6	194.5	175.7	150.6	131.7
80°	194.5	182.1	175.7	175.7	156.8	150.6	156.8	119.3	112.9	94.0	81.6
82.5°	119.3	119.3	112.9	112.9	106.7	100.5	81.6	81.6	75.4	69.0	56.6
85°	62.8	81.6	56.6	62.8	56.6	62.8	56.6	43.9	37.7	31.3	31.3
87.5°	37.7	25.1	25.1	37.7	31.3	25.1	25.1	25.1	18.9	12.7	12.7
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°	13430.2	13430.2	13430.2	13430.2	13430.2	13430.2	13430.2	13430.2	13430.2	13430.2	13430.2
2.5°	13223.3	13267.2	13260.8	13317.4	13336.2	13380.1	13380.1	13411.4	13430.2	13474.2	13511.9
5°	12909.5	12978.4	12997.3	13066.3	13122.8	13191.8	13235.7	13304.7	13367.5	13461.8	13549.6
7.5°	12715.0	12771.3	12809.0	12890.6	12953.4	13028.6	13104.0	13198.0	13285.8	13399.0	13524.5
10°	12620.7	12696.1	12752.4	12834.0	12909.5	12991.1	13066.3	13173.0	13273.4	13417.8	13555.8
12.5°	12595.6	12683.4	12752.4	12865.6	12940.7	13028.6	13116.4	13235.7	13342.4	13493.0	13650.1
15°	12595.6	12715.0	12809.0	12934.5	13022.4	13135.2	13229.5	13348.6	13468.0	13624.8	13775.4
17.5°	12570.6	12715.0	12834.0	12978.4	13091.3	13204.5	13323.6	13436.7	13562.0	13712.8	13882.0
20°	12470.1	12652.2	12796.3	12965.8	13085.1	13210.7	13330.0	13455.3	13587.3	13744.1	13888.5
22.5°	12294.4	12507.8	12671.0	12852.9	12991.1	13116.4	13235.7	13361.3	13505.7	13656.3	13806.9
25°	12062.2	12262.9	12438.8	12626.9	12765.1	12903.0	13016.2	13160.6	13292.3	13436.7	13555.8
27.5°	11710.6	11924.0	12093.4	12288.2	12413.5	12545.5	12639.5	12758.9	12884.4	13003.5	13097.8
30°	11183.6	11378.2	11553.8	11729.5	11855.0	11949.3	12049.5	12143.8	12225.4	12306.8	12388.4
32.5°	10411.5	10587.4	10756.9	10919.9	11020.4	11102.0	11177.2	11233.8	11277.7	11321.6	11327.8
35°	9351.1	9495.3	9602.0	9746.4	9840.6	9915.8	9915.8	9940.9	9934.7	9915.8	9897.0
37.5°	8164.9	8221.2	8265.2	8321.7	8327.9	8327.9	8290.5	8259.0	8208.9	8196.2	8158.5
40°	6928.6	6853.2	6796.6	6721.5	6677.5	6583.3	6501.9	6445.3	6363.7	6351.3	6338.6
42.5°	5754.8	5579.2	5422.4	5290.6	5140.0	5008.0	4888.9	4801.1	4738.3	4731.9	4738.3
45°	4801.1	4600.1	4367.9	4186.1	4016.6	3853.3	3696.5	3589.9	3533.3	3520.6	3533.3
47.5°	4079.4	3847.1	3621.1	3413.9	3232.1	3050.0	2893.2	2748.8	2679.8	2660.9	2654.7
50°	3508.2	3269.8	3031.1	2817.7	2617.0	2434.9	2240.4	2102.5	2014.6	1983.1	1958.1
52.5°	2949.7	2736.4	2491.5	2271.9	2070.9	1857.6	1656.9	1499.8	1412.0	1374.5	1349.2
55°	2460.2	2246.9	2020.8	1807.5	1594.1	1380.7	1179.7	1029.1	935.1	891.2	859.7
57.5°	1964.3	1763.5	1569.0	1355.7	1179.7	972.8	771.9	640.1	558.5	508.4	483.3
60°	1518.7	1361.9	1192.4	1016.7	847.3	677.8	514.6	389.0	326.3	288.8	257.3
62.5°	1148.5	1016.7	903.6	753.0	621.3	476.9	351.6	251.1	194.5	163.3	150.6
65°	828.4	727.9	627.5	533.4	439.4	332.7	238.4	163.3	112.9	94.0	87.8
67.5°	590.0	508.4	432.9	370.2	301.2	238.4	169.5	112.9	87.8	75.4	69.0
70°	414.1	351.6	301.2	244.9	200.7	156.8	131.7	81.6	50.1	56.6	43.9
72.5°	276.1	232.2	207.2	169.5	137.9	112.9	81.6	56.6	56.6	43.9	37.7
75°	150.6	137.9	106.7	81.6	69.0	62.8	25.1	12.7	6.2	18.9	6.2
77.5°	106.7	94.0	81.6	69.0	56.6	43.9	25.1	25.1	18.9	25.1	12.7
80°	69.0	56.6	50.1	50.1	31.3	18.9	12.7	12.7	18.9	6.2	6.2
82.5°	43.9	37.7	31.3	31.3	31.3	18.9	18.9	18.9	18.9	12.7	12.7
85°	25.1	18.9	12.7	12.7	6.2	12.7	0.0	6.2	6.2	0.0	0.0
87.5°	12.7	6.2	6.2	6.2	6.2	0.0	0.0	6.2	0.0	6.2	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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	13430.2	13430.2	13430.2	13430.2	13430.2	13430.2	13430.2	13430.2	13430.2	13430.2	13430.2
2.5°	13536.9	13562.0	13593.5	13618.6	13675.1	13687.5	13712.8	13737.9	13756.8	13775.4	13781.8
5°	13624.8	13719.0	13806.9	13900.9	14020.2	14101.9	14195.9	14277.5	14359.2	14428.1	14478.2
7.5°	13650.1	13794.2	13926.2	14089.2	14264.9	14415.7	14572.5	14729.3	14892.6	15018.1	15124.8
10°	13700.2	13875.8	14045.3	14239.8	14465.8	14666.6	14861.1	15068.2	15275.4	15451.1	15608.1
12.5°	13788.0	13982.5	14164.6	14378.0	14610.2	14836.0	15049.4	15281.6	15501.4	15696.0	15871.6
15°	13932.4	14114.3	14290.2	14490.9	14723.1	14930.3	15143.7	15369.4	15589.3	15790.0	15953.2
17.5°	14026.4	14195.9	14371.6	14553.7	14748.2	14936.5	15137.2	15338.2	15538.9	15721.0	15871.6
20°	14026.4	14189.7	14321.4	14484.7	14666.6	14829.8	14993.1	15168.7	15344.4	15495.0	15639.4
22.5°	13913.6	14070.4	14170.8	14296.4	14453.2	14591.4	14679.2	14873.7	15005.5	15137.2	15243.9
25°	13650.1	13763.0	13844.6	13932.4	14058.0	14152.0	14227.4	14340.3	14472.0	14522.4	14597.6
27.5°	13173.0	13254.6	13298.5	13317.4	13380.1	13430.2	13442.9	13493.0	13549.6	13562.0	13593.5
30°	12420.0	12426.2	12407.3	12401.1	12369.6	12332.1	12325.7	12319.5	12294.4	12269.4	12275.6
32.5°	11283.9	11252.6	11177.2	11095.8	11014.2	10926.4	10876.0	10813.2	10775.5	10738.0	10694.1
35°	9815.3	9740.2	9633.5	9533.0	9439.0	9369.7	9256.8	9219.1	9181.7	9131.3	9118.9
37.5°	8089.5	8045.6	7945.1	7869.9	7819.8	7788.3	7731.7	7694.3	7694.3	7675.4	7662.8
40°	6307.1	6294.7	6257.0	6275.9	6250.8	6263.2	6257.0	6244.3	6275.9	6275.9	6288.5
42.5°	4731.9	4738.3	4757.2	4769.6	4807.3	4813.5	4845.0	4845.0	4863.9	4882.5	4895.1
45°	3520.6	3545.9	3545.9	3571.0	3608.7	3614.9	3627.3	3633.8	3646.2	3677.7	3690.1
47.5°	2642.1	2648.3	2648.3	2654.7	2667.1	2679.8	2673.6	2679.8	2698.7	2686.0	2698.7
50°	1951.9	1958.1	1939.2	1920.3	1939.2	1939.2	1933.0	1914.1	1933.0	1907.9	1920.3
52.5°	1330.6	1324.1	1305.3	1311.7	1299.1	1292.9	1292.9	1280.2	1280.2	1280.2	1255.2
55°	841.1	841.1	828.4	828.4	822.2	809.6	803.4	796.9	790.7	784.5	784.5
57.5°	470.7	476.9	458.3	451.8	458.3	451.8	439.4	439.4	439.4	420.5	432.9
60°	257.3	251.1	244.9	238.4	232.2	238.4	238.4	226.0	226.0	226.0	232.2
62.5°	137.9	137.9	131.7	131.7	125.5	125.5	137.9	119.3	125.5	119.3	125.5
65°	75.4	94.0	69.0	69.0	87.8	81.6	75.4	75.4	81.6	69.0	75.4
67.5°	81.6	56.6	50.1	56.6	50.1	50.1	50.1	62.8	56.6	43.9	56.6
70°	37.7	43.9	43.9	31.3	50.1	25.1	43.9	25.1	37.7	31.3	37.7
72.5°	37.7	37.7	37.7	25.1	37.7	25.1	31.3	31.3	25.1	25.1	37.7
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°	12.7	12.7	6.2	6.2	6.2	6.2	12.7	12.7	12.7	0.0	6.2
80°	12.7	12.7	0.0	6.2	0.0	0.0	6.2	0.0	6.2	0.0	12.7
82.5°	6.2	12.7	6.2	6.2	12.7	12.7	12.7	6.2	6.2	6.2	6.2
85°	0.0	6.2	0.0	0.0	0.0	0.0	12.7	0.0	0.0	0.0	6.2
87.5°	0.0	6.2	0.0	0.0	0.0	0.0	6.2	6.2	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: P249727

CATALOG NUMBER: LD8B200D010 ER8B200840 8LBSWOLI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	13430.2	13430.2	13430.2	13430.2
2.5°	13788.0	13794.2	13806.9	13800.7
5°	14516.0	14566.3	14591.4	14585.2
7.5°	15200.0	15288.1	15338.2	15338.2
10°	15727.2	15827.7	15902.9	15915.5
12.5°	16009.6	16122.7	16223.2	16197.9
15°	16091.2	16204.3	16304.6	16285.7
17.5°	15997.2	16110.0	16185.5	16172.8
20°	15739.9	15833.9	15909.3	15902.9
22.5°	15338.2	15419.8	15482.6	15476.1
25°	14660.4	14716.9	14767.0	14742.0
27.5°	13618.6	13637.4	13668.7	13631.2
30°	12231.6	12244.0	12256.7	12250.5
32.5°	10675.3	10668.8	10656.4	10643.8
35°	9100.0	9100.0	9106.2	9068.5
37.5°	7669.0	7662.8	7681.6	7662.8
40°	6300.9	6294.7	6319.8	6288.5
42.5°	4914.0	4932.9	4939.1	4939.1
45°	3696.5	3702.7	3708.9	3708.9
47.5°	2698.7	2704.9	2736.4	2698.7
50°	1907.9	1914.1	1920.3	1907.9
52.5°	1261.4	1267.8	1261.4	1242.5
55°	771.9	778.3	778.3	778.3
57.5°	414.1	420.5	420.5	414.1
60°	226.0	219.6	226.0	213.4
62.5°	119.3	131.7	125.5	112.9
65°	75.4	75.4	75.4	87.8
67.5°	62.8	50.1	56.6	43.9
70°	37.7	43.9	43.9	31.3
72.5°	31.3	31.3	31.3	37.7
75°	0.0	0.0	0.0	0.0
77.5°	12.7	12.7	12.7	6.2
80°	6.2	0.0	6.2	0.0
82.5°	6.2	6.2	12.7	6.2
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)