

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: P250215

Luminaire Tested: **LD8B150D010 ER8B150830 8LBSW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250215  
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: LD8B150D010 ER8B150830 8LBSW0WH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 3000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15930.0 lumens  
Efficiency: N/A  
Efficacy: 100.5 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

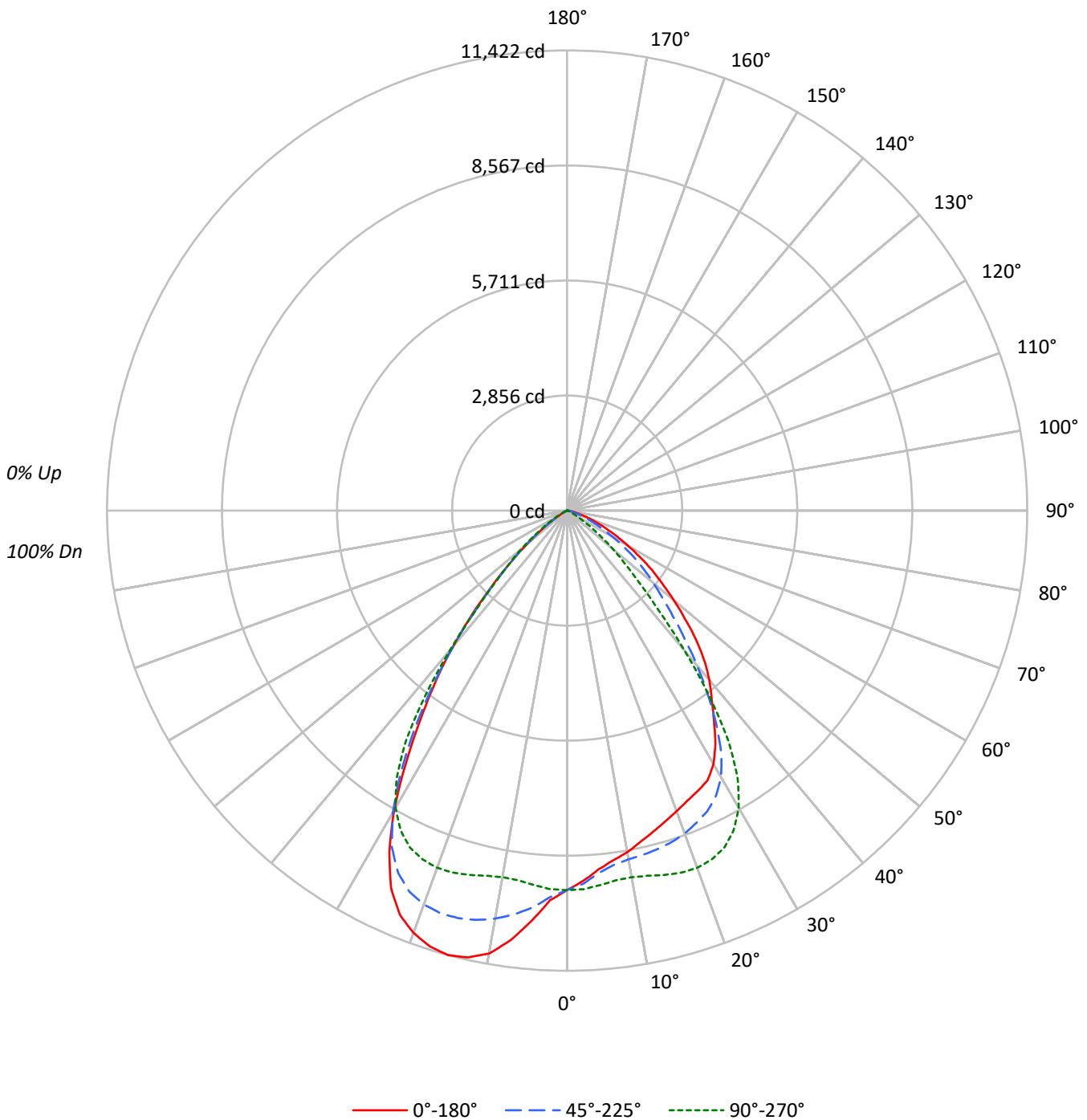
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	290460	290460	290460
5°	276720	288845	316645
10°	269584	289292	349520
15°	263470	298880	364640
20°	260570	309678	366009
25°	261183	314053	351789
30°	258758	303269	305933
35°	239101	262459	239428
40°	220950	181968	177540
45°	196747	109799	113440
50°	165545	70741	64197
55°	137726	38805	29348
60°	107502	16824	9232
65°	79327	8354	4495
70°	55159	5166	1974
75°	33562	1060	0
80°	24222	1580	0
85°	15568	1521	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	905.5	5.7
10°-20°	2710.1	17.0
20°-30°	4150.3	26.1
30°-40°	4068.7	25.5
40°-50°	2450.2	15.4
50°-60°	1127.7	7.1
60°-70°	396.2	2.5
70°-80°	103.6	0.7
80°-90°	17.6	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°	7766.0	48.8
0°-40°	11834.7	74.3
0°-60°	15412.6	96.8
0°-90°	15930.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15930.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	9419	9419	9419	9419	9419	
5°	8940	9023	9331	9890	10230	844
15°	8253	8698	9362	10472	11422	2332
25°	7676	8231	9230	9926	10339	3536
35°	6352	6440	6972	6572	6360	3978
45°	4512	3715	2518	2535	2601	3460
55°	2562	2029	722	568	546	2286
65°	1087	753	114	57	62	1108
75°	282	163	9	0	0	342
85°	44	22	4	0	0	60
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°	9419.4	9419.4	9419.4	9419.4	9419.4	9419.4	9419.4	9419.4	9419.4	9419.4	9419.4
2.5°	9199.3	9208.2	9208.2	9208.2	9225.8	9230.3	9225.8	9230.3	9239.0	9269.8	9283.0
5°	8939.7	8926.5	8935.3	8930.8	8952.9	8966.1	8957.3	8970.5	9001.3	9023.4	9045.3
7.5°	8754.9	8754.9	8754.9	8763.6	8776.8	8803.3	8798.9	8807.6	8838.4	8869.2	8900.0
10°	8609.6	8605.2	8605.2	8627.2	8644.7	8675.5	8684.4	8710.9	8750.4	8790.0	8825.2
12.5°	8420.3	8424.8	8446.7	8468.8	8508.3	8556.7	8583.1	8618.5	8680.1	8746.0	8785.7
15°	8253.0	8257.4	8275.1	8319.0	8367.5	8424.8	8481.9	8539.1	8613.9	8697.6	8768.1
17.5°	8090.2	8094.5	8107.7	8156.3	8217.9	8292.7	8358.7	8433.5	8530.4	8627.2	8715.2
20°	7940.5	7936.2	7958.1	8002.1	8081.5	8151.8	8217.9	8305.9	8411.6	8530.4	8631.5
22.5°	7795.2	7795.2	7817.3	7861.3	7931.8	8002.1	8072.6	8165.0	8270.6	8385.1	8504.0
25°	7676.4	7672.0	7702.8	7724.9	7777.6	7848.1	7922.9	7997.8	8103.4	8231.1	8345.4
27.5°	7548.8	7544.5	7548.8	7575.3	7623.6	7676.4	7733.6	7799.7	7887.8	7993.4	8103.4
30°	7267.1	7271.4	7271.4	7293.5	7320.0	7377.1	7407.9	7474.0	7553.2	7641.2	7738.1
32.5°	6848.9	6853.3	6853.3	6862.2	6884.1	6910.5	6937.0	6985.4	7047.0	7121.8	7209.8
35°	6351.6	6351.6	6347.1	6351.6	6364.8	6364.8	6386.8	6364.8	6395.6	6439.7	6505.6
37.5°	5893.8	5884.9	5876.2	5867.3	5854.1	5832.2	5801.4	5748.5	5735.3	5717.7	5722.0
40°	5488.9	5484.5	5458.1	5436.0	5391.9	5339.2	5264.4	5172.0	5097.2	5009.1	4934.3
42.5°	5039.9	5035.4	5013.5	4973.8	4925.4	4846.2	4727.4	4604.2	4454.5	4322.5	4186.0
45°	4511.6	4524.8	4494.0	4450.0	4392.8	4317.9	4186.0	4036.2	3886.6	3715.0	3543.2
47.5°	3961.4	3957.0	3935.1	3908.7	3860.3	3785.5	3697.4	3534.5	3376.0	3217.7	3041.6
50°	3450.8	3433.3	3424.4	3398.1	3367.3	3305.7	3213.1	3081.1	2940.3	2790.6	2627.8
52.5°	2966.7	2966.7	2944.6	2927.1	2900.6	2852.2	2773.1	2667.4	2548.6	2407.6	2236.1
55°	2561.8	2552.9	2531.0	2508.9	2482.5	2451.7	2381.4	2293.3	2165.6	2029.2	1879.5
57.5°	2130.4	2125.9	2117.2	2090.8	2077.5	2046.7	1967.6	1879.5	1769.5	1650.7	1527.3
60°	1743.1	1725.5	1707.8	1690.2	1668.3	1637.5	1584.6	1509.7	1417.3	1311.7	1188.5
62.5°	1395.4	1421.7	1369.0	1369.0	1324.9	1298.5	1250.1	1206.1	1109.2	1012.4	906.8
65°	1087.2	1087.2	1065.1	1047.6	1021.1	990.3	941.9	897.9	827.4	752.6	677.8
67.5°	832.0	827.4	805.5	787.9	765.8	748.3	713.1	660.2	607.5	545.9	484.1
70°	611.8	607.5	602.9	572.1	554.6	532.7	506.2	471.1	431.4	387.4	330.1
72.5°	440.1	440.1	427.0	413.8	396.2	378.5	352.2	330.1	295.0	264.2	224.5
75°	281.7	277.4	277.4	255.3	255.3	228.8	211.2	198.0	180.4	162.9	127.7
77.5°	202.6	198.0	193.7	184.8	176.1	167.2	154.0	136.4	123.2	105.6	92.4
80°	136.4	127.7	123.2	123.2	110.0	105.6	110.0	83.7	79.2	65.9	57.3
82.5°	83.7	83.7	79.2	79.2	74.8	70.5	57.3	57.3	52.9	48.4	39.7
85°	44.0	57.3	39.7	44.0	39.7	44.0	39.7	30.8	26.5	21.9	21.9
87.5°	26.5	17.6	17.6	26.5	21.9	17.6	17.6	17.6	13.2	8.9	8.9
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°	9419.4	9419.4	9419.4	9419.4	9419.4	9419.4	9419.4	9419.4	9419.4	9419.4	9419.4
2.5°	9274.3	9305.1	9300.6	9340.3	9353.5	9384.3	9384.3	9406.2	9419.4	9450.2	9476.7
5°	9054.2	9102.6	9115.8	9164.2	9203.8	9252.2	9283.0	9331.4	9375.4	9441.5	9503.1
7.5°	8917.8	8957.3	8983.7	9041.0	9085.0	9137.7	9190.6	9256.6	9318.2	9397.5	9485.6
10°	8851.6	8904.5	8944.0	9001.3	9054.2	9111.4	9164.2	9239.0	9309.5	9410.7	9507.5
12.5°	8834.1	8895.7	8944.0	9023.4	9076.1	9137.7	9199.3	9283.0	9357.8	9463.5	9573.6
15°	8834.1	8917.8	8983.7	9071.8	9133.4	9212.5	9278.7	9362.2	9445.9	9555.9	9661.5
17.5°	8816.5	8917.8	9001.3	9102.6	9181.7	9261.1	9344.6	9424.0	9511.8	9617.6	9736.3
20°	8746.0	8873.7	8974.8	9093.7	9177.4	9265.4	9349.1	9437.0	9529.6	9639.6	9740.8
22.5°	8622.8	8772.5	8887.0	9014.5	9111.4	9199.3	9283.0	9371.1	9472.3	9578.0	9683.6
25°	8459.9	8600.7	8724.1	8856.0	8952.9	9049.7	9129.0	9230.3	9322.7	9424.0	9507.5
27.5°	8213.4	8363.0	8481.9	8618.5	8706.3	8798.9	8864.9	8948.6	9036.6	9120.1	9186.3
30°	7843.8	7980.2	8103.4	8226.6	8314.6	8380.8	8451.1	8517.2	8574.4	8631.5	8688.8
32.5°	7302.2	7425.6	7544.5	7658.8	7729.3	7786.5	7839.2	7878.9	7909.7	7940.5	7944.9
35°	6558.5	6659.6	6734.4	6835.7	6901.8	6954.6	6954.6	6972.1	6967.8	6954.6	6941.3
37.5°	5726.6	5766.1	5796.9	5836.5	5840.9	5840.9	5814.6	5792.5	5757.4	5748.5	5722.0
40°	4859.5	4806.6	4766.9	4714.2	4683.4	4617.2	4560.2	4520.5	4463.2	4454.5	4445.7
42.5°	4036.2	3913.0	3803.0	3710.6	3605.0	3512.4	3428.9	3367.3	3323.3	3318.8	3323.3
45°	3367.3	3226.4	3063.5	2935.9	2817.1	2702.6	2592.6	2517.8	2478.1	2469.2	2478.1
47.5°	2861.1	2698.2	2539.7	2394.4	2266.9	2139.1	2029.2	1927.9	1879.5	1866.3	1861.9
50°	2460.5	2293.3	2125.9	1976.3	1835.5	1707.8	1571.3	1474.6	1413.0	1390.9	1373.3
52.5°	2068.8	1919.2	1747.4	1593.4	1452.5	1302.8	1162.1	1051.9	990.3	964.0	946.3
55°	1725.5	1575.9	1417.3	1267.7	1118.0	968.4	827.4	721.8	655.9	625.1	602.9
57.5°	1377.7	1236.9	1100.5	950.8	827.4	682.3	541.3	449.0	391.7	356.6	339.0
60°	1065.1	955.2	836.3	713.1	594.3	475.4	360.9	272.8	228.8	202.6	180.4
62.5°	805.5	713.1	633.7	528.1	435.7	334.4	246.6	176.1	136.4	114.5	105.6
65°	581.0	510.5	440.1	374.1	308.2	233.4	167.2	114.5	79.2	65.9	61.6
67.5°	413.8	356.6	303.6	259.6	211.2	167.2	118.9	79.2	61.6	52.9	48.4
70°	290.4	246.6	211.2	171.8	140.8	110.0	92.4	57.3	35.1	39.7	30.8
72.5°	193.7	162.9	145.3	118.9	96.7	79.2	57.3	39.7	39.7	30.8	26.5
75°	105.6	96.7	74.8	57.3	48.4	44.0	17.6	8.9	4.3	13.2	4.3
77.5°	74.8	65.9	57.3	48.4	39.7	30.8	17.6	17.6	13.2	17.6	8.9
80°	48.4	39.7	35.1	35.1	21.9	13.2	8.9	8.9	13.2	4.3	4.3
82.5°	30.8	26.5	21.9	21.9	21.9	13.2	13.2	13.2	13.2	8.9	8.9
85°	17.6	13.2	8.9	8.9	4.3	8.9	0.0	4.3	4.3	0.0	0.0
87.5°	8.9	4.3	4.3	4.3	4.3	0.0	0.0	4.3	0.0	4.3	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°	9419.4	9419.4	9419.4	9419.4	9419.4	9419.4	9419.4	9419.4	9419.4	9419.4	9419.4
2.5°	9494.3	9511.8	9533.9	9551.5	9591.2	9599.9	9617.6	9635.2	9648.4	9661.5	9666.0
5°	9555.9	9622.0	9683.6	9749.5	9833.2	9890.5	9956.4	10013.7	10070.9	10119.3	10154.5
7.5°	9573.6	9674.7	9767.3	9881.6	10004.8	10110.6	10220.6	10330.6	10445.1	10533.1	10607.9
10°	9608.8	9732.0	9850.8	9987.2	10145.8	10286.5	10423.0	10568.3	10713.6	10836.8	10946.9
12.5°	9670.4	9806.8	9934.5	10084.2	10247.0	10405.4	10555.0	10717.9	10872.1	11008.5	11131.7
15°	9771.6	9899.2	10022.6	10163.3	10326.2	10471.5	10621.2	10779.5	10933.7	11074.5	11189.0
17.5°	9837.6	9956.4	10079.6	10207.4	10343.8	10475.9	10616.6	10757.6	10898.4	11026.1	11131.7
20°	9837.6	9952.1	10044.5	10159.0	10286.5	10401.0	10515.5	10638.7	10761.9	10867.6	10968.8
22.5°	9758.4	9868.4	9938.9	10026.9	10136.9	10233.8	10295.4	10431.8	10524.2	10616.6	10691.5
25°	9573.6	9652.8	9710.0	9771.6	9859.7	9925.6	9978.5	10057.7	10150.1	10185.4	10238.2
27.5°	9239.0	9296.2	9327.0	9340.3	9384.3	9419.4	9428.3	9463.5	9503.1	9511.8	9533.9
30°	8710.9	8715.2	8702.0	8697.6	8675.5	8649.3	8644.7	8640.4	8622.8	8605.2	8609.6
32.5°	7914.1	7892.1	7839.2	7782.2	7724.9	7663.3	7628.0	7584.0	7557.5	7531.2	7500.4
35°	6884.1	6831.4	6756.5	6686.1	6620.1	6571.6	6492.4	6465.9	6439.7	6404.3	6395.6
37.5°	5673.7	5642.9	5572.4	5519.7	5484.5	5462.4	5422.7	5396.5	5396.5	5383.2	5374.4
40°	4423.6	4414.9	4388.4	4401.6	4384.1	4392.8	4388.4	4379.5	4401.6	4401.6	4410.5
42.5°	3318.8	3323.3	3336.5	3345.2	3371.7	3376.0	3398.1	3398.1	3411.3	3424.4	3433.3
45°	2469.2	2487.0	2487.0	2504.6	2531.0	2535.4	2544.1	2548.6	2557.3	2579.4	2588.1
47.5°	1853.1	1857.4	1857.4	1861.9	1870.6	1879.5	1875.2	1879.5	1892.7	1883.9	1892.7
50°	1369.0	1373.3	1360.1	1346.9	1360.1	1360.1	1355.7	1342.5	1355.7	1338.2	1346.9
52.5°	933.2	928.7	915.5	920.0	911.1	906.8	906.8	897.9	897.9	897.9	880.3
55°	589.9	589.9	581.0	581.0	576.7	567.8	563.5	558.9	554.6	550.2	550.2
57.5°	330.1	334.4	321.4	316.9	321.4	316.9	308.2	308.2	308.2	295.0	303.6
60°	180.4	176.1	171.8	167.2	162.9	167.2	167.2	158.5	158.5	158.5	162.9
62.5°	96.7	96.7	92.4	92.4	88.1	88.1	96.7	83.7	88.1	83.7	88.1
65°	52.9	65.9	48.4	48.4	61.6	57.3	52.9	52.9	57.3	48.4	52.9
67.5°	57.3	39.7	35.1	39.7	35.1	35.1	35.1	44.0	39.7	30.8	39.7
70°	26.5	30.8	30.8	21.9	35.1	17.6	30.8	17.6	26.5	21.9	26.5
72.5°	26.5	26.5	26.5	17.6	26.5	17.6	21.9	21.9	17.6	17.6	26.5
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°	8.9	8.9	4.3	4.3	4.3	4.3	8.9	8.9	8.9	0.0	4.3
80°	8.9	8.9	0.0	4.3	0.0	0.0	4.3	0.0	4.3	0.0	8.9
82.5°	4.3	8.9	4.3	4.3	8.9	8.9	8.9	4.3	4.3	4.3	4.3
85°	0.0	4.3	0.0	0.0	0.0	0.0	8.9	0.0	0.0	0.0	4.3
87.5°	0.0	4.3	0.0	0.0	0.0	0.0	4.3	4.3	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: P250215

CATALOG NUMBER: LD8B150D010 ER8B150830 8LBSW0WH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	9419.4	9419.4	9419.4	9419.4
2.5°	9670.4	9674.7	9683.6	9679.2
5°	10180.9	10216.2	10233.8	10229.5
7.5°	10660.7	10722.4	10757.6	10757.6
10°	11030.4	11100.9	11153.6	11162.5
12.5°	11228.5	11307.8	11378.3	11360.5
15°	11285.7	11365.1	11435.4	11422.1
17.5°	11219.8	11298.9	11351.8	11343.0
20°	11039.3	11105.3	11158.2	11153.6
22.5°	10757.6	10814.8	10858.9	10854.3
25°	10282.2	10321.9	10357.0	10339.4
27.5°	9551.5	9564.7	9586.7	9560.4
30°	8578.8	8587.5	8596.4	8592.0
32.5°	7487.2	7482.7	7474.0	7465.1
35°	6382.4	6382.4	6386.8	6360.3
37.5°	5378.7	5374.4	5387.6	5374.4
40°	4419.2	4414.9	4432.4	4410.5
42.5°	3446.5	3459.7	3464.1	3464.1
45°	2592.6	2597.0	2601.3	2601.3
47.5°	1892.7	1897.1	1919.2	1892.7
50°	1338.2	1342.5	1346.9	1338.2
52.5°	884.7	889.2	884.7	871.4
55°	541.3	545.9	545.9	545.9
57.5°	290.4	295.0	295.0	290.4
60°	158.5	154.0	158.5	149.7
62.5°	83.7	92.4	88.1	79.2
65°	52.9	52.9	52.9	61.6
67.5°	44.0	35.1	39.7	30.8
70°	26.5	30.8	30.8	21.9
72.5°	21.9	21.9	21.9	26.5
75°	0.0	0.0	0.0	0.0
77.5°	8.9	8.9	8.9	4.3
80°	4.3	0.0	4.3	0.0
82.5°	4.3	4.3	8.9	4.3
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)