

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: P248340

Luminaire Tested: **LD8B120D010 ER8B120830 8LBDW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248340  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B120D010 ER8B120830 8LBDW0LI  
Description: PORTFOLIO 8 INCH DOUBLE 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: 12461.0 lumens  
Efficiency: N/A  
Efficacy: 105.3 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

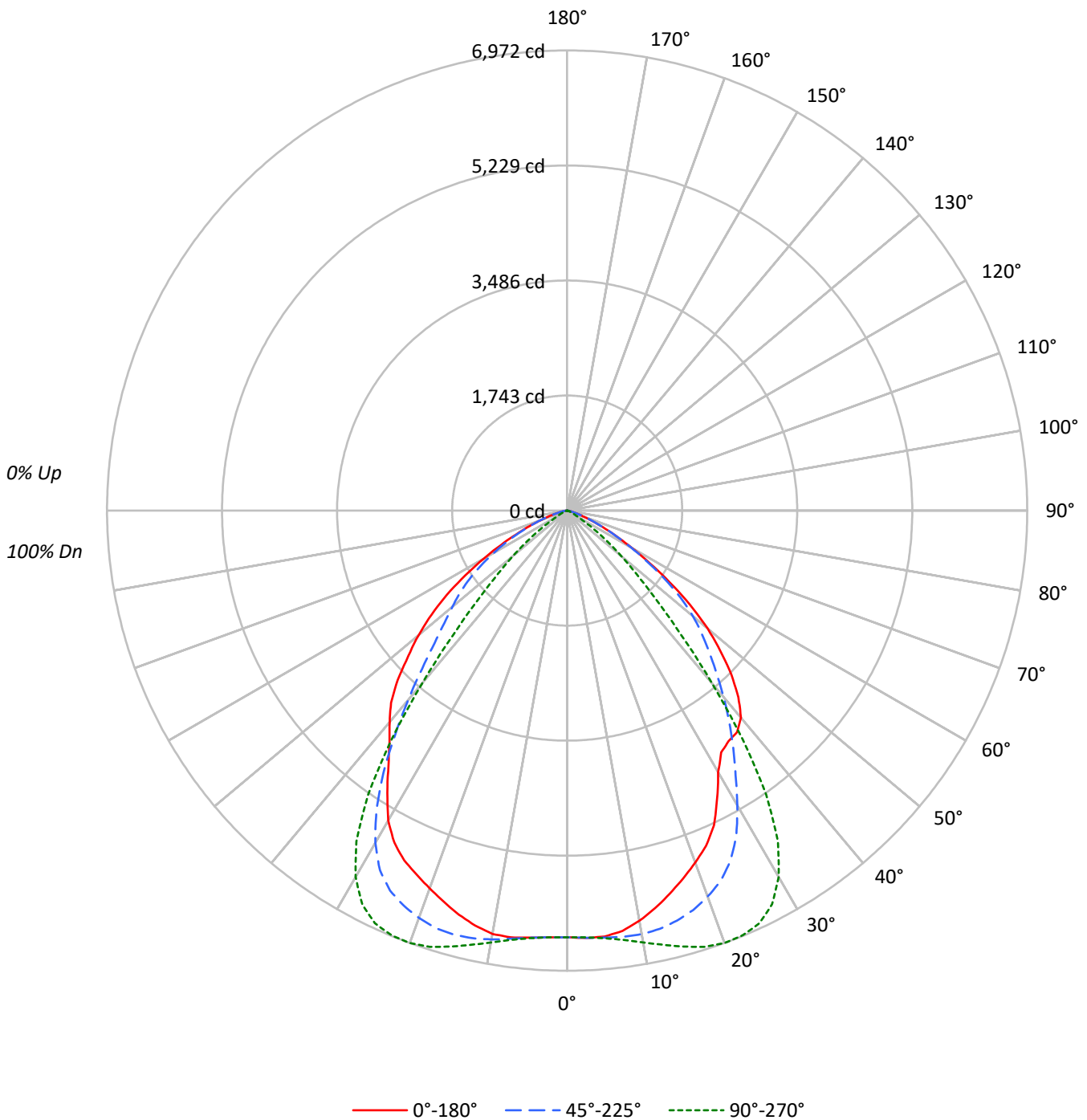
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90					90			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62					62			
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56					56			
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50					50			
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45					45			
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41					41			
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38					38			
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34					34			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	199335	199335	199335
5°	200524	201267	201053
10°	197576	207999	203916
15°	191800	218307	202316
20°	186234	228795	199858
25°	179082	234654	198929
30°	162979	228221	193035
35°	160549	197752	177602
40°	164916	137153	168366
45°	153522	82892	158310
50°	133163	51192	141064
55°	102190	26746	119716
60°	69622	10793	90357
65°	43312	5509	62334
70°	23514	3408	38047
75°	12260	1632	22482
80°	5487	1829	12182
85°	3644	1203	10933



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	621.7	5.0
10°-20°	1841.6	14.8
20°-30°	2809.6	22.5
30°-40°	2931.8	23.5
40°-50°	2202.2	17.7
50°-60°	1354.9	10.9
60°-70°	551.4	4.4
70°-80°	129.9	1.0
80°-90°	17.9	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°	5272.8	42.3
0°-40°	8204.7	65.8
0°-60°	11761.8	94.4
0°-90°	12461.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12461.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	6464	6464	6464	6464	6464	
5°	6478	6495	6502	6495	6495	613
15°	6008	6430	6838	6650	6337	1692
25°	5263	5854	6897	6351	5847	2393
35°	4265	4385	5253	4855	4718	2693
45°	3520	3047	1901	2838	3630	2686
55°	1901	1805	498	1805	2227	1709
65°	594	600	76	806	854	619
75°	103	103	14	182	189	124
85°	10	10	3	24	31	14
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°	6464.3	6464.3	6464.3	6464.3	6464.3	6464.3	6464.3	6464.3	6464.3	6464.3	6464.3
2.5°	6481.5	6471.2	6481.5	6481.5	6485.0	6478.1	6481.5	6485.0	6478.1	6478.1	6478.1
5°	6478.1	6471.2	6478.1	6474.7	6481.5	6481.5	6488.4	6488.4	6495.2	6495.2	6505.5
7.5°	6423.2	6409.5	6423.2	6433.5	6440.3	6454.1	6471.2	6485.0	6498.7	6512.4	6529.6
10°	6309.9	6309.9	6320.3	6340.8	6361.4	6385.4	6416.3	6450.6	6485.0	6515.8	6546.7
12.5°	6169.3	6159.0	6179.6	6207.0	6237.9	6275.7	6323.7	6375.2	6430.1	6491.8	6539.9
15°	6008.0	5997.7	6021.7	6049.2	6086.9	6141.9	6200.2	6268.8	6347.7	6430.1	6509.0
17.5°	5843.3	5839.9	5863.9	5901.7	5932.6	5990.8	6066.4	6148.7	6237.9	6347.7	6450.6
20°	5675.2	5671.8	5695.8	5726.7	5767.8	5822.7	5898.2	5994.3	6100.6	6224.2	6344.3
22.5°	5500.2	5503.6	5524.2	5558.5	5592.9	5651.1	5730.1	5826.2	5942.8	6076.6	6210.4
25°	5263.4	5246.3	5273.8	5308.1	5366.4	5414.4	5489.9	5592.9	5712.9	5853.6	6011.5
27.5°	4920.3	4916.9	4941.0	4971.8	5023.2	5081.6	5163.9	5270.3	5397.3	5551.6	5706.0
30°	4577.2	4584.1	4594.4	4625.3	4659.5	4717.9	4800.2	4889.5	5009.5	5157.1	5321.8
32.5°	4343.9	4343.9	4357.6	4378.2	4402.2	4433.1	4491.5	4556.6	4649.3	4752.2	4872.3
35°	4264.9	4251.3	4264.9	4268.4	4271.8	4278.7	4289.0	4309.6	4340.4	4385.1	4429.7
37.5°	4230.7	4220.4	4220.4	4206.7	4189.5	4168.9	4141.4	4110.5	4076.3	4031.6	3997.4
40°	4096.9	4090.0	4083.1	4069.4	4031.6	3990.5	3945.8	3873.8	3794.9	3685.1	3575.3
42.5°	3839.5	3832.7	3829.2	3801.8	3767.4	3719.4	3667.9	3592.5	3493.0	3352.3	3194.4
45°	3520.4	3506.7	3496.4	3472.4	3448.3	3407.2	3359.1	3290.5	3191.0	3046.9	2858.2
47.5°	3149.8	3143.0	3139.5	3129.3	3105.3	3081.2	3050.4	2995.4	2906.2	2768.9	2573.4
50°	2775.8	2762.1	2768.9	2765.6	2755.3	2738.1	2717.5	2679.8	2611.1	2487.6	2309.2
52.5°	2346.9	2346.9	2343.5	2353.8	2357.2	2353.8	2357.2	2316.1	2257.7	2165.0	2014.1
55°	1900.8	1900.8	1911.2	1924.9	1938.6	1942.1	1938.6	1921.5	1880.3	1804.8	1671.0
57.5°	1482.2	1475.4	1496.0	1516.6	1530.3	1544.0	1533.7	1520.0	1496.0	1434.2	1331.3
60°	1128.9	1128.9	1142.6	1156.3	1170.0	1183.8	1180.3	1176.9	1156.3	1115.1	1032.8
62.5°	830.3	833.8	833.8	844.1	857.8	871.5	881.8	871.5	861.2	833.8	778.9
65°	593.6	590.1	593.6	603.9	614.2	627.9	634.8	631.3	621.0	600.5	559.3
67.5°	398.0	394.6	408.3	411.7	418.6	432.4	428.9	432.4	428.9	411.7	377.5
70°	260.8	253.9	260.8	257.3	267.6	271.1	277.9	281.3	277.9	267.6	257.3
72.5°	161.3	157.8	161.3	164.7	168.2	171.5	178.4	178.4	175.0	168.2	154.4
75°	102.9	92.6	96.0	89.2	96.0	96.0	102.9	106.4	102.9	102.9	96.0
77.5°	61.8	61.8	61.8	61.8	61.8	61.8	61.8	65.2	68.6	61.8	58.3
80°	30.9	30.9	34.3	34.3	34.3	37.8	34.3	34.3	34.3	37.8	27.5
82.5°	24.0	20.6	20.6	20.6	24.0	20.6	20.6	20.6	20.6	20.6	20.6
85°	10.3	13.7	10.3	6.9	10.3	10.3	13.7	10.3	10.3	10.3	13.7
87.5°	3.4	3.4	0.0	0.0	0.0	3.4	0.0	3.4	3.4	6.9	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: P248340

CATALOG NUMBER: LD8B120D010 ER8B120830 8LBDW0LI

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	6464.3	6464.3	6464.3	6464.3	6464.3	6464.3	6464.3	6464.3	6464.3	6464.3	6464.3
2.5°	6481.5	6474.7	6474.7	6471.2	6478.1	6471.2	6474.7	6471.2	6471.2	6478.1	6471.2
5°	6505.5	6509.0	6502.1	6498.7	6509.0	6509.0	6509.0	6502.1	6502.1	6505.5	6502.1
7.5°	6539.9	6546.7	6550.1	6553.6	6560.5	6563.9	6563.9	6560.5	6557.0	6567.3	6553.6
10°	6577.6	6587.9	6608.5	6618.8	6635.9	6635.9	6642.8	6642.8	6635.9	6642.8	6639.4
12.5°	6563.9	6625.6	6659.9	6684.0	6708.0	6728.5	6735.4	6738.9	6735.4	6749.2	6735.4
15°	6587.9	6639.4	6694.3	6735.4	6780.0	6804.0	6810.9	6838.3	6845.2	6848.7	6828.1
17.5°	6550.1	6642.8	6701.1	6762.9	6828.1	6872.7	6913.8	6931.0	6934.5	6941.3	6913.8
20°	6464.3	6567.3	6656.5	6745.7	6821.2	6889.8	6924.2	6972.2	6958.5	6985.9	6948.2
22.5°	6347.7	6464.3	6577.6	6694.3	6773.2	6855.6	6927.6	6961.8	6979.1	6979.1	6937.8
25°	6162.4	6299.7	6423.2	6543.2	6663.4	6762.9	6845.2	6896.7	6907.0	6903.6	6855.6
27.5°	5874.2	6021.7	6165.9	6303.1	6450.6	6567.3	6663.4	6725.1	6742.3	6742.3	6690.8
30°	5476.2	5634.0	5774.7	5939.4	6090.4	6220.8	6354.6	6409.5	6440.3	6440.3	6382.0
32.5°	5002.7	5136.5	5266.9	5428.1	5592.9	5740.4	5867.3	5942.8	5980.6	5977.1	5925.7
35°	4488.0	4553.2	4652.7	4772.8	4920.3	5057.6	5181.1	5253.2	5318.3	5314.9	5266.9
37.5°	3973.3	3956.2	3966.5	4011.1	4103.7	4199.8	4295.8	4364.5	4419.3	4443.4	4433.1
40°	3469.0	3379.7	3293.9	3263.1	3269.9	3304.2	3355.7	3407.2	3469.0	3499.9	3513.5
42.5°	3016.0	2865.1	2714.0	2600.9	2535.6	2515.1	2539.1	2556.2	2594.0	2638.6	2683.2
45°	2652.3	2449.9	2250.8	2075.9	1966.1	1900.8	1887.2	1900.8	1921.5	1966.1	2024.4
47.5°	2353.8	2117.0	1894.0	1698.4	1537.1	1451.4	1427.4	1420.5	1441.1	1482.2	1561.2
50°	2089.6	1852.8	1605.8	1379.3	1211.2	1115.1	1080.8	1067.1	1091.1	1122.0	1194.0
52.5°	1801.4	1568.0	1314.2	1094.5	919.6	820.1	782.3	761.7	775.4	816.6	888.7
55°	1489.1	1272.9	1043.1	816.6	648.5	555.9	511.2	497.5	511.2	555.9	627.9
57.5°	1176.9	995.0	802.9	590.1	439.2	346.6	301.9	288.2	326.0	343.1	418.6
60°	919.6	772.1	607.3	432.4	301.9	229.9	185.3	175.0	192.2	223.0	284.8
62.5°	689.7	597.0	466.6	308.8	223.0	147.5	123.5	113.3	123.5	147.5	195.6
65°	501.0	428.9	326.0	226.4	151.0	109.8	82.4	75.5	85.8	102.9	144.1
67.5°	343.1	288.2	226.4	157.8	102.9	68.6	58.3	58.3	61.8	75.5	106.4
70°	223.0	188.7	144.1	102.9	68.6	51.5	44.6	37.8	44.6	54.9	72.0
72.5°	140.7	120.1	92.6	72.0	51.5	37.8	30.9	27.5	34.3	41.1	54.9
75°	85.8	65.2	48.0	37.8	27.5	27.5	27.5	13.7	17.1	27.5	34.3
77.5°	51.5	44.6	37.8	30.9	24.0	13.7	13.7	13.7	17.1	20.6	30.9
80°	27.5	24.0	17.1	17.1	13.7	10.3	13.7	10.3	6.9	17.1	20.6
82.5°	17.1	13.7	13.7	13.7	17.1	6.9	10.3	6.9	10.3	13.7	10.3
85°	10.3	10.3	10.3	6.9	17.1	6.9	6.9	3.4	3.4	6.9	6.9
87.5°	0.0	3.4	3.4	0.0	3.4	0.0	3.4	3.4	3.4	3.4	3.4
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: P248340

CATALOG NUMBER: LD8B120D010 ER8B120830 8LBDWOLI

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	6464.3	6464.3	6464.3	6464.3	6464.3	6464.3	6464.3	6464.3	6464.3	6464.3	6464.3
2.5°	6474.7	6471.2	6474.7	6471.2	6471.2	6471.2	6474.7	6474.7	6471.2	6471.2	6478.1
5°	6502.1	6502.1	6502.1	6498.7	6495.2	6495.2	6502.1	6502.1	6491.8	6502.1	6502.1
7.5°	6560.5	6550.1	6560.5	6546.7	6539.9	6543.2	6546.7	6539.9	6533.0	6536.4	6536.4
10°	6635.9	6625.6	6625.6	6615.4	6605.0	6598.2	6591.3	6574.1	6557.0	6553.6	6539.9
12.5°	6725.1	6708.0	6697.7	6677.1	6659.9	6635.9	6615.4	6587.9	6553.6	6529.6	6505.5
15°	6814.3	6786.9	6762.9	6728.5	6690.8	6649.6	6605.0	6560.5	6505.5	6457.5	6416.3
17.5°	6886.4	6848.7	6804.0	6749.2	6694.3	6632.5	6567.3	6502.1	6423.2	6361.4	6313.4
20°	6910.4	6855.6	6797.2	6725.1	6653.1	6567.3	6485.0	6399.2	6309.9	6244.8	6189.9
22.5°	6879.6	6814.3	6742.3	6666.8	6570.7	6478.1	6382.0	6282.5	6203.6	6114.4	6062.9
25°	6793.8	6714.8	6635.9	6546.7	6454.1	6351.2	6248.2	6145.3	6049.2	6001.1	5936.0
27.5°	6618.8	6533.0	6447.2	6354.6	6248.2	6145.3	6038.9	5939.4	5857.1	5791.8	5754.1
30°	6309.9	6210.4	6111.0	6011.5	5918.8	5812.4	5712.9	5630.6	5548.2	5496.7	5459.0
32.5°	5836.4	5747.3	5647.8	5551.6	5465.9	5376.7	5294.3	5222.3	5163.9	5129.6	5102.1
35°	5198.3	5109.0	5033.6	4965.0	4892.8	4855.1	4803.7	4762.5	4738.5	4724.8	4721.3
37.5°	4395.3	4343.9	4319.9	4306.2	4292.4	4282.2	4289.0	4306.2	4319.9	4343.9	4371.3
40°	3537.6	3582.1	3595.9	3643.9	3688.5	3746.9	3812.1	3887.6	3949.3	4028.2	4083.1
42.5°	2755.3	2837.6	2933.7	3036.6	3146.4	3252.8	3383.2	3503.2	3613.0	3712.5	3798.3
45°	2117.0	2244.0	2388.1	2535.6	2683.2	2837.6	2995.4	3143.0	3273.3	3379.7	3469.0
47.5°	1650.4	1791.1	1976.4	2158.2	2336.7	2518.5	2693.5	2847.9	2957.7	3060.6	3139.5
50°	1307.3	1468.6	1671.0	1880.3	2075.9	2268.0	2453.3	2597.4	2707.2	2789.6	2847.9
52.5°	1012.2	1204.3	1410.2	1629.8	1839.1	2048.4	2220.0	2353.8	2443.0	2515.1	2559.6
55°	754.8	943.6	1163.2	1389.6	1602.4	1804.8	1966.1	2082.8	2161.7	2202.8	2226.8
57.5°	545.5	717.1	936.7	1163.2	1355.3	1547.5	1677.9	1784.2	1828.8	1852.8	1863.1
60°	398.0	555.9	751.4	947.0	1128.9	1283.3	1396.5	1468.6	1502.9	1516.6	1513.1
62.5°	291.7	428.9	597.0	761.7	909.2	1036.2	1125.4	1173.4	1190.7	1197.5	1187.2
65°	223.0	329.4	473.5	600.5	713.7	806.3	871.5	902.4	912.7	909.2	902.4
67.5°	164.7	247.1	353.5	449.5	531.9	603.9	638.2	665.7	672.5	662.2	651.9
70°	116.7	181.8	257.3	322.6	384.3	425.5	463.2	466.6	466.6	463.2	456.4
72.5°	82.4	126.9	175.0	219.6	257.3	288.2	301.9	312.2	308.8	305.3	298.5
75°	54.9	78.9	126.9	137.3	171.5	181.8	195.6	195.6	199.0	188.7	188.7
77.5°	34.3	54.9	75.5	89.2	102.9	116.7	123.5	123.5	126.9	123.5	123.5
80°	20.6	34.3	41.1	61.8	61.8	72.0	75.5	78.9	72.0	82.4	72.0
82.5°	13.7	20.6	30.9	30.9	37.8	44.6	44.6	48.0	48.0	44.6	44.6
85°	10.3	13.7	17.1	20.6	20.6	24.0	20.6	20.6	24.0	27.5	24.0
87.5°	3.4	6.9	3.4	6.9	6.9	13.7	10.3	10.3	10.3	13.7	13.7
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: P248340

CATALOG NUMBER: LD8B120D010 ER8B120830 8LBDW0LI

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	6464.3	6464.3	6464.3	6464.3
2.5°	6471.2	6474.7	6471.2	6471.2
5°	6502.1	6498.7	6502.1	6495.2
7.5°	6526.1	6526.1	6522.7	6522.7
10°	6526.1	6512.4	6512.4	6512.4
12.5°	6474.7	6457.5	6447.2	6440.3
15°	6385.4	6354.6	6340.8	6337.4
17.5°	6268.8	6241.3	6224.2	6213.9
20°	6135.0	6107.5	6086.9	6090.4
22.5°	6018.3	5987.5	5973.7	5966.8
25°	5901.7	5863.9	5853.6	5846.7
27.5°	5712.9	5692.4	5682.0	5671.8
30°	5424.7	5414.4	5397.3	5421.3
32.5°	5091.9	5074.7	5061.0	5071.3
35°	4724.8	4714.4	4724.8	4717.9
37.5°	4388.5	4398.8	4412.5	4419.3
40°	4124.3	4162.0	4175.8	4182.6
42.5°	3860.1	3904.7	3932.1	3949.3
45°	3534.1	3578.7	3609.6	3630.2
47.5°	3197.9	3235.6	3266.5	3263.1
50°	2892.5	2913.1	2926.8	2940.5
52.5°	2583.7	2583.7	2587.1	2587.1
55°	2233.7	2226.8	2223.4	2226.8
57.5°	1849.4	1842.6	1839.1	1828.8
60°	1499.4	1478.9	1465.1	1465.1
62.5°	1173.4	1149.4	1139.2	1135.7
65°	881.8	878.3	857.8	854.3
67.5°	638.2	624.5	610.8	614.2
70°	449.5	428.9	428.9	422.0
72.5°	291.7	281.3	277.9	277.9
75°	181.8	181.8	175.0	188.7
77.5°	120.1	120.1	116.7	120.1
80°	72.0	72.0	72.0	68.6
82.5°	44.6	48.0	44.6	44.6
85°	24.0	27.5	20.6	30.9
87.5°	13.7	17.1	13.7	17.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)