

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: P248520

Luminaire Tested: **LD8B120D010 ER8B120950 8LBDW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248520  
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 ER8B120950 8LBDW0WH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
90 CRI 5000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11620.0 lumens  
Efficiency: N/A  
Efficacy: 98.2 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

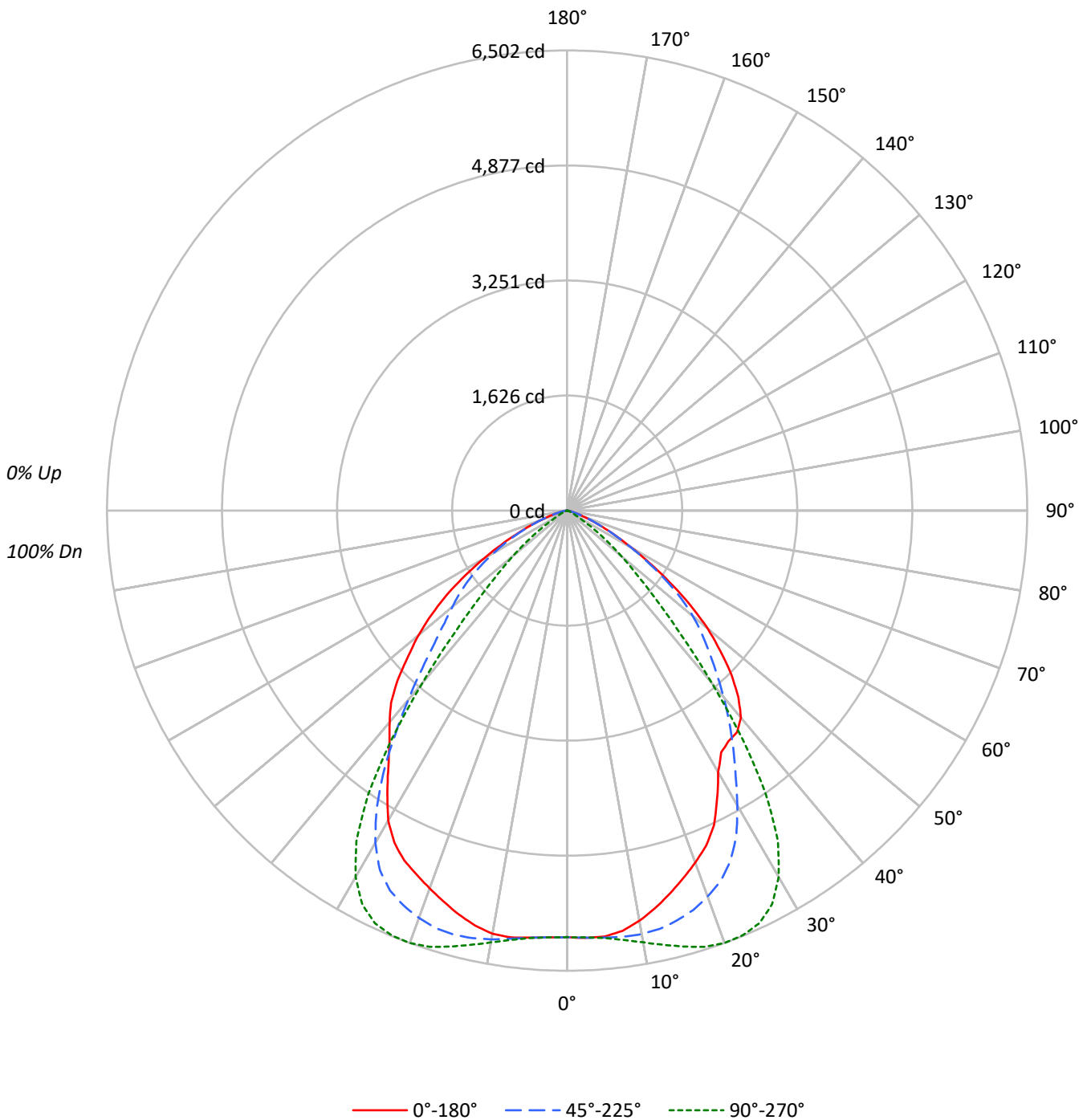
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	185881	185881	185881
5°	186991	187684	187486
10°	184243	193962	190155
15°	178855	203574	188662
20°	173665	213352	186368
25°	166997	218816	185503
30°	151980	212818	180006
35°	149715	184404	165616
40°	153786	127895	157002
45°	143160	77302	147626
50°	124178	47738	131546
55°	95298	24940	111636
60°	64923	10065	84257
65°	40386	5137	58131
70°	21927	3174	35487
75°	11438	1525	20969
80°	5114	1705	11365
85°	3397	1132	10190



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	579.7	5.0
10°-20°	1717.3	14.8
20°-30°	2619.9	22.5
30°-40°	2733.9	23.5
40°-50°	2053.6	17.7
50°-60°	1263.5	10.9
60°-70°	514.2	4.4
70°-80°	121.2	1.0
80°-90°	16.7	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°	4917.0	42.3
0°-40°	7650.9	65.8
0°-60°	10968.0	94.4
0°-90°	11620.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11620.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	6028	6028	6028	6028	6028	
5°	6041	6057	6063	6057	6057	572
15°	5602	5996	6377	6201	5910	1578
25°	4908	5459	6431	5922	5452	2231
35°	3977	4089	4899	4528	4400	2511
45°	3283	2841	1773	2646	3385	2505
55°	1773	1683	464	1683	2076	1593
65°	554	560	70	752	797	577
75°	96	96	13	170	176	116
85°	10	10	3	22	29	13
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°	6028.0	6028.0	6028.0	6028.0	6028.0	6028.0	6028.0	6028.0	6028.0	6028.0	6028.0
2.5°	6044.1	6034.5	6044.1	6044.1	6047.3	6040.9	6044.1	6047.3	6040.9	6040.9	6040.9
5°	6040.9	6034.5	6040.9	6037.7	6044.1	6044.1	6050.5	6050.5	6056.9	6056.9	6066.5
7.5°	5989.7	5976.9	5989.7	5999.3	6005.7	6018.5	6034.5	6047.3	6060.1	6072.9	6088.9
10°	5884.1	5884.1	5893.7	5912.9	5932.1	5954.5	5983.3	6015.3	6047.3	6076.0	6104.8
12.5°	5752.9	5743.3	5762.5	5788.1	5816.9	5852.1	5896.9	5944.9	5996.1	6053.6	6098.5
15°	5602.5	5592.9	5615.3	5640.9	5676.1	5727.3	5781.7	5845.7	5919.3	5996.1	6069.7
17.5°	5448.9	5445.7	5468.1	5503.3	5532.2	5586.5	5657.0	5733.7	5816.9	5919.3	6015.3
20°	5292.2	5289.0	5311.4	5340.2	5378.6	5429.8	5500.1	5589.7	5688.9	5804.1	5916.1
22.5°	5129.0	5132.2	5151.4	5183.4	5215.4	5269.7	5343.3	5433.0	5541.7	5666.5	5791.3
25°	4908.2	4892.2	4917.8	4949.8	5004.2	5049.0	5119.4	5215.4	5327.4	5458.6	5605.8
27.5°	4588.2	4585.0	4607.5	4636.2	4684.2	4738.6	4815.4	4914.6	5033.0	5177.0	5320.9
30°	4268.3	4274.7	4284.3	4313.1	4345.1	4399.5	4476.3	4559.5	4671.4	4809.0	4962.6
32.5°	4050.7	4050.7	4063.5	4082.7	4105.1	4133.9	4188.3	4249.1	4335.5	4431.5	4543.4
35°	3977.1	3964.3	3977.1	3980.3	3983.5	3989.9	3999.5	4018.7	4047.5	4089.1	4130.7
37.5°	3945.2	3935.5	3935.5	3922.8	3906.7	3887.5	3861.9	3833.1	3801.2	3759.5	3727.6
40°	3820.4	3813.9	3807.5	3794.8	3759.5	3721.2	3679.5	3612.3	3538.8	3436.4	3334.0
42.5°	3580.4	3574.0	3570.8	3545.2	3513.2	3468.4	3420.4	3350.0	3257.2	3126.0	2978.8
45°	3282.8	3270.0	3260.4	3238.0	3215.6	3177.2	3132.4	3068.4	2975.6	2841.3	2665.3
47.5°	2937.3	2930.8	2927.6	2918.1	2895.7	2873.2	2844.5	2793.3	2710.1	2582.1	2399.7
50°	2588.5	2575.7	2582.1	2578.9	2569.3	2553.3	2534.1	2498.9	2434.9	2319.7	2153.3
52.5°	2188.5	2188.5	2185.4	2194.9	2198.1	2194.9	2198.1	2159.8	2105.4	2018.9	1878.2
55°	1772.6	1772.6	1782.2	1795.0	1807.8	1811.0	1807.8	1791.8	1753.4	1683.0	1558.2
57.5°	1382.2	1375.9	1395.0	1414.2	1427.1	1439.8	1430.2	1417.4	1395.0	1337.4	1241.4
60°	1052.7	1052.7	1065.4	1078.3	1091.0	1103.9	1100.7	1097.5	1078.3	1039.8	963.1
62.5°	774.3	777.5	777.5	787.1	799.9	812.7	822.3	812.7	803.1	777.5	726.3
65°	553.5	550.3	553.5	563.1	572.8	585.5	591.9	588.7	579.1	559.9	521.6
67.5°	371.2	368.0	380.7	383.9	390.4	403.2	400.0	403.2	400.0	383.9	352.0
70°	243.2	236.7	243.2	240.0	249.6	252.8	259.1	262.3	259.1	249.6	240.0
72.5°	150.4	147.2	150.4	153.6	156.8	159.9	166.4	166.4	163.2	156.8	144.0
75°	96.0	86.4	89.6	83.2	89.6	89.6	96.0	99.2	96.0	96.0	89.6
77.5°	57.6	57.6	57.6	57.6	57.6	57.6	57.6	60.8	64.0	57.6	54.4
80°	28.8	28.8	32.0	32.0	32.0	35.2	32.0	32.0	32.0	35.2	25.6
82.5°	22.4	19.2	19.2	19.2	22.4	19.2	19.2	19.2	19.2	19.2	19.2
85°	9.6	12.8	9.6	6.4	9.6	9.6	12.8	9.6	9.6	9.6	12.8
87.5°	3.2	3.2	0.0	0.0	0.0	3.2	0.0	3.2	3.2	6.4	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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	6028.0	6028.0	6028.0	6028.0	6028.0	6028.0	6028.0	6028.0	6028.0	6028.0	6028.0
2.5°	6044.1	6037.7	6037.7	6034.5	6040.9	6034.5	6037.7	6034.5	6034.5	6040.9	6034.5
5°	6066.5	6069.7	6063.3	6060.1	6069.7	6069.7	6069.7	6063.3	6063.3	6066.5	6063.3
7.5°	6098.5	6104.8	6108.1	6111.3	6117.7	6120.9	6120.9	6117.7	6114.5	6124.1	6111.3
10°	6133.7	6143.3	6162.5	6172.1	6188.1	6188.1	6194.5	6194.5	6188.1	6194.5	6191.3
12.5°	6120.9	6178.4	6210.5	6232.9	6255.2	6274.4	6280.8	6284.1	6280.8	6293.7	6280.8
15°	6143.3	6191.3	6242.5	6280.8	6322.4	6344.8	6351.2	6376.8	6383.2	6386.5	6367.3
17.5°	6108.1	6194.5	6248.8	6306.4	6367.3	6408.8	6447.2	6463.3	6466.5	6472.8	6447.2
20°	6028.0	6124.1	6207.2	6290.5	6360.9	6424.8	6456.8	6501.6	6488.9	6514.5	6479.2
22.5°	5919.3	6028.0	6133.7	6242.5	6316.1	6392.9	6460.0	6492.0	6508.0	6508.0	6469.6
25°	5746.5	5874.5	5989.7	6101.6	6213.7	6306.4	6383.2	6431.2	6440.9	6437.7	6392.9
27.5°	5477.7	5615.3	5749.7	5877.7	6015.3	6124.1	6213.7	6271.2	6287.3	6287.3	6239.3
30°	5106.6	5253.8	5385.0	5538.5	5679.3	5800.9	5925.7	5976.9	6005.7	6005.7	5951.3
32.5°	4665.0	4789.8	4911.4	5061.8	5215.4	5353.0	5471.3	5541.7	5576.9	5573.7	5525.7
35°	4185.1	4245.9	4338.7	4450.7	4588.2	4716.2	4831.4	4898.6	4959.4	4956.2	4911.4
37.5°	3705.1	3689.2	3698.8	3740.4	3826.7	3916.3	4005.9	4069.9	4121.1	4143.5	4133.9
40°	3234.8	3151.6	3071.6	3042.9	3049.2	3081.2	3129.2	3177.2	3234.8	3263.6	3276.4
42.5°	2812.5	2671.7	2530.9	2425.3	2364.5	2345.3	2367.7	2383.7	2418.9	2460.5	2502.1
45°	2473.3	2284.6	2098.9	1935.8	1833.4	1772.6	1759.8	1772.6	1791.8	1833.4	1887.8
47.5°	2194.9	1974.1	1766.2	1583.8	1433.4	1353.5	1331.1	1324.7	1343.8	1382.2	1455.8
50°	1948.5	1727.8	1497.4	1286.2	1129.5	1039.8	1007.9	995.1	1017.4	1046.3	1113.4
52.5°	1679.8	1462.2	1225.5	1020.7	857.5	764.7	729.5	710.3	723.1	761.5	828.7
55°	1388.6	1187.0	972.7	761.5	604.7	518.4	476.7	463.9	476.7	518.4	585.5
57.5°	1097.5	927.9	748.7	550.3	409.5	323.2	281.5	268.8	304.0	320.0	390.4
60°	857.5	719.9	566.3	403.2	281.5	214.4	172.8	163.2	179.2	207.9	265.6
62.5°	643.1	556.7	435.1	287.9	207.9	137.6	115.2	105.6	115.2	137.6	182.4
65°	467.2	400.0	304.0	211.1	140.8	102.4	76.8	70.4	80.0	96.0	134.4
67.5°	320.0	268.8	211.1	147.2	96.0	64.0	54.4	54.4	57.6	70.4	99.2
70°	207.9	176.0	134.4	96.0	64.0	48.0	41.6	35.2	41.6	51.2	67.2
72.5°	131.2	112.0	86.4	67.2	48.0	35.2	28.8	25.6	32.0	38.4	51.2
75°	80.0	60.8	44.8	35.2	25.6	25.6	25.6	12.8	16.0	25.6	32.0
77.5°	48.0	41.6	35.2	28.8	22.4	12.8	12.8	12.8	16.0	19.2	28.8
80°	25.6	22.4	16.0	16.0	12.8	9.6	12.8	9.6	6.4	16.0	19.2
82.5°	16.0	12.8	12.8	12.8	16.0	6.4	9.6	6.4	9.6	12.8	9.6
85°	9.6	9.6	9.6	6.4	16.0	6.4	6.4	3.2	3.2	6.4	6.4
87.5°	0.0	3.2	3.2	0.0	3.2	0.0	3.2	3.2	3.2	3.2	3.2
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°	6028.0	6028.0	6028.0	6028.0	6028.0	6028.0	6028.0	6028.0	6028.0	6028.0	6028.0
2.5°	6037.7	6034.5	6037.7	6034.5	6034.5	6034.5	6037.7	6037.7	6034.5	6034.5	6040.9
5°	6063.3	6063.3	6063.3	6060.1	6056.9	6056.9	6063.3	6063.3	6053.6	6063.3	6063.3
7.5°	6117.7	6108.1	6117.7	6104.8	6098.5	6101.6	6104.8	6098.5	6092.1	6095.3	6095.3
10°	6188.1	6178.4	6178.4	6168.9	6159.3	6152.8	6146.5	6130.4	6114.5	6111.3	6098.5
12.5°	6271.2	6255.2	6245.7	6226.4	6210.5	6188.1	6168.9	6143.3	6111.3	6088.9	6066.5
15°	6354.4	6328.8	6306.4	6274.4	6239.3	6200.8	6159.3	6117.7	6066.5	6021.7	5983.3
17.5°	6421.6	6386.5	6344.8	6293.7	6242.5	6184.9	6124.1	6063.3	5989.7	5932.1	5887.3
20°	6444.0	6392.9	6338.5	6271.2	6204.0	6124.1	6047.3	5967.3	5884.1	5823.3	5772.1
22.5°	6415.3	6354.4	6287.3	6216.9	6127.2	6040.9	5951.3	5858.5	5784.9	5701.7	5653.7
25°	6335.3	6261.7	6188.1	6104.8	6018.5	5922.5	5826.5	5730.5	5640.9	5596.1	5535.4
27.5°	6172.1	6092.1	6012.1	5925.7	5826.5	5730.5	5631.4	5538.5	5461.8	5400.9	5365.8
30°	5884.1	5791.3	5698.5	5605.8	5519.3	5420.1	5327.4	5250.6	5173.8	5125.8	5090.6
32.5°	5442.5	5359.4	5266.6	5177.0	5097.0	5013.8	4937.0	4869.8	4815.4	4783.4	4757.8
35°	4847.4	4764.2	4693.8	4629.9	4562.6	4527.5	4479.5	4441.0	4418.7	4405.9	4402.7
37.5°	4098.7	4050.7	4028.3	4015.5	4002.7	3993.1	3999.5	4015.5	4028.3	4050.7	4076.3
40°	3298.8	3340.4	3353.2	3398.0	3439.6	3494.0	3554.8	3625.2	3682.7	3756.3	3807.5
42.5°	2569.3	2646.1	2735.7	2831.6	2934.0	3033.2	3154.8	3266.8	3369.2	3462.0	3542.0
45°	1974.1	2092.5	2226.9	2364.5	2502.1	2646.1	2793.3	2930.8	3052.4	3151.6	3234.8
47.5°	1539.0	1670.2	1843.0	2012.6	2178.9	2348.5	2511.7	2655.7	2758.1	2854.0	2927.6
50°	1219.0	1369.4	1558.2	1753.4	1935.8	2114.9	2287.7	2422.1	2524.5	2601.3	2655.7
52.5°	943.9	1123.1	1315.0	1519.8	1715.0	1910.2	2070.1	2194.9	2278.1	2345.3	2386.9
55°	703.9	879.9	1084.7	1295.8	1494.2	1683.0	1833.4	1942.2	2015.8	2054.2	2076.5
57.5°	508.7	668.7	873.5	1084.7	1263.8	1443.0	1564.6	1663.8	1705.4	1727.8	1737.4
60°	371.2	518.4	700.7	883.1	1052.7	1196.7	1302.3	1369.4	1401.5	1414.2	1411.0
62.5°	272.0	400.0	556.7	710.3	847.9	966.2	1049.5	1094.3	1110.3	1116.6	1107.1
65°	207.9	307.1	441.6	559.9	665.5	751.9	812.7	841.5	851.1	847.9	841.5
67.5°	153.6	230.4	329.6	419.2	496.0	563.1	595.2	620.8	627.1	617.5	607.9
70°	108.8	169.6	240.0	300.8	358.3	396.8	431.9	435.1	435.1	431.9	425.6
72.5°	76.8	118.4	163.2	204.8	240.0	268.8	281.5	291.2	287.9	284.7	278.4
75°	51.2	73.6	118.4	128.0	159.9	169.6	182.4	182.4	185.5	176.0	176.0
77.5°	32.0	51.2	70.4	83.2	96.0	108.8	115.2	115.2	118.4	115.2	115.2
80°	19.2	32.0	38.4	57.6	57.6	67.2	70.4	73.6	67.2	76.8	67.2
82.5°	12.8	19.2	28.8	28.8	35.2	41.6	41.6	44.8	44.8	41.6	41.6
85°	9.6	12.8	16.0	19.2	19.2	22.4	19.2	19.2	22.4	25.6	22.4
87.5°	3.2	6.4	3.2	6.4	6.4	12.8	9.6	9.6	9.6	12.8	12.8
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: P248520

CATALOG NUMBER: LD8B120D010 ER8B120950 8LBDW0WH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	6028.0	6028.0	6028.0	6028.0
2.5°	6034.5	6037.7	6034.5	6034.5
5°	6063.3	6060.1	6063.3	6056.9
7.5°	6085.7	6085.7	6082.5	6082.5
10°	6085.7	6072.9	6072.9	6072.9
12.5°	6037.7	6021.7	6012.1	6005.7
15°	5954.5	5925.7	5912.9	5909.7
17.5°	5845.7	5820.1	5804.1	5794.5
20°	5720.9	5695.3	5676.1	5679.3
22.5°	5612.1	5583.4	5570.5	5564.1
25°	5503.3	5468.1	5458.6	5452.1
27.5°	5327.4	5308.2	5298.5	5289.0
30°	5058.6	5049.0	5033.0	5055.4
32.5°	4748.2	4732.2	4719.4	4729.1
35°	4405.9	4396.3	4405.9	4399.5
37.5°	4092.3	4101.9	4114.7	4121.1
40°	3846.0	3881.1	3894.0	3900.3
42.5°	3599.6	3641.2	3666.8	3682.7
45°	3295.6	3337.2	3366.0	3385.2
47.5°	2982.0	3017.3	3046.0	3042.9
50°	2697.3	2716.5	2729.2	2742.1
52.5°	2409.3	2409.3	2412.5	2412.5
55°	2083.0	2076.5	2073.3	2076.5
57.5°	1724.6	1718.2	1715.0	1705.4
60°	1398.2	1379.1	1366.2	1366.2
62.5°	1094.3	1071.9	1062.3	1059.1
65°	822.3	819.1	799.9	796.7
67.5°	595.2	582.3	569.6	572.8
70°	419.2	400.0	400.0	393.6
72.5°	272.0	262.3	259.1	259.1
75°	169.6	169.6	163.2	176.0
77.5°	112.0	112.0	108.8	112.0
80°	67.2	67.2	67.2	64.0
82.5°	41.6	44.8	41.6	41.6
85°	22.4	25.6	19.2	28.8
87.5°	12.8	16.0	12.8	16.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)