

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: P248514

Luminaire Tested: **LD8B200D010 ER8B200940 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248514
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: LD8B200D010 ER8B200940 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19670.0 lumens
Efficiency: N/A
Efficacy: 88.1 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

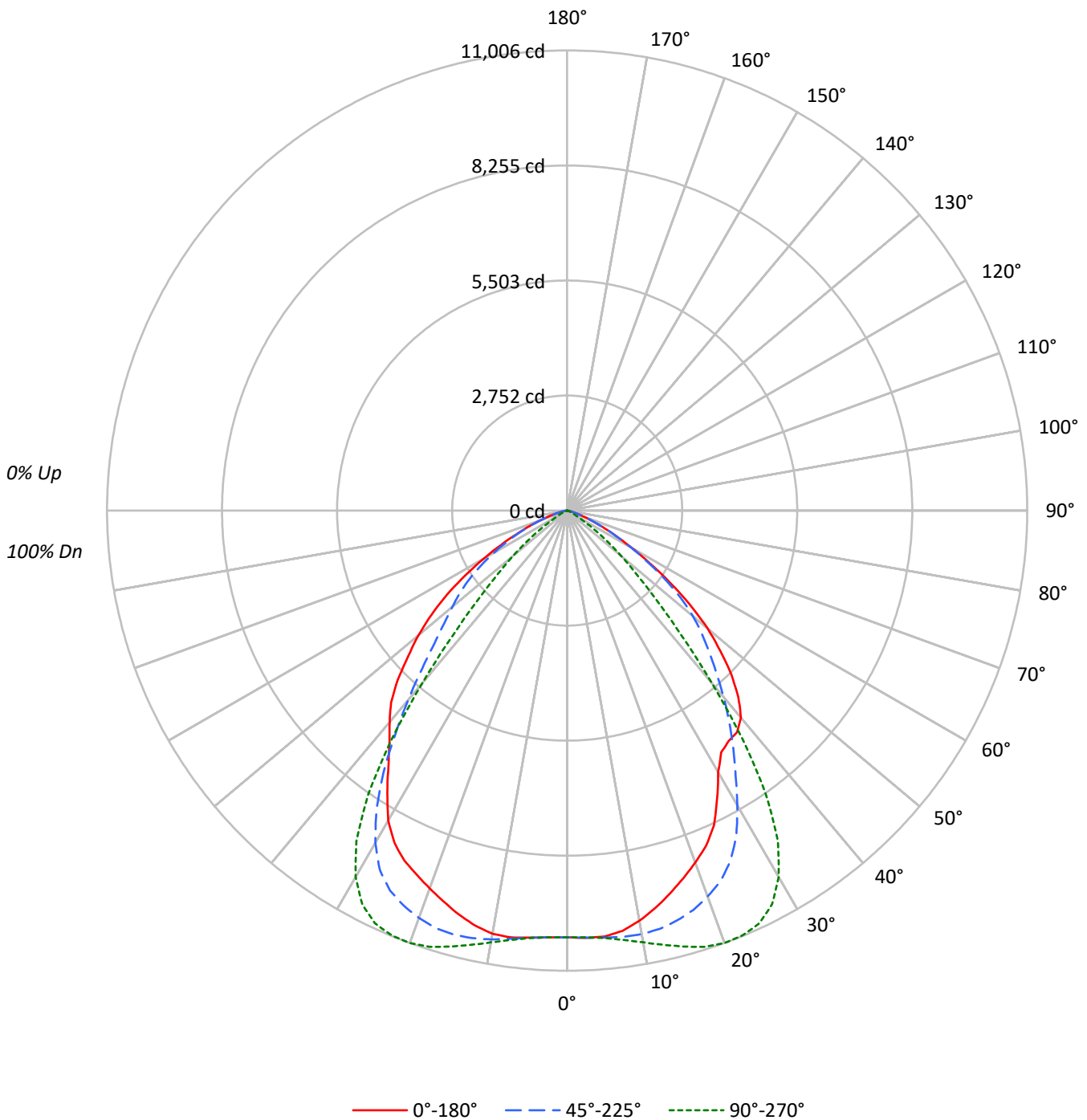
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	314657	314657	314657
5°	316530	317704	317369
10°	311880	328332	321888
15°	302762	344605	319359
20°	293976	361159	315480
25°	282689	370407	314015
30°	257266	360254	304708
35°	253432	312157	280348
40°	260322	216498	265769
45°	242340	130849	249898
50°	210202	80805	222675
55°	161311	42219	188977
60°	109894	17034	142630
65°	68368	8690	98401
70°	37110	5373	60064
75°	19361	2573	35493
80°	8666	2895	19232
85°	5767	1911	17266



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	981.3	5.0
10°-20°	2907.0	14.8
20°-30°	4435.0	22.5
30°-40°	4627.9	23.5
40°-50°	3476.2	17.7
50°-60°	2138.8	10.9
60°-70°	870.4	4.4
70°-80°	205.1	1.0
80°-90°	28.2	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°	8323.3	42.3
0°-40°	12951.2	65.8
0°-60°	18566.3	94.4
0°-90°	19670.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19670.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10204	10204	10204	10204	10204	
5°	10226	10253	10264	10253	10253	967
15°	9484	10150	10794	10497	10004	2672
25°	8308	9240	10887	10026	9229	3777
35°	6732	6922	8292	7664	7447	4251
45°	5557	4810	3000	4479	5730	4240
55°	3000	2849	785	2849	3515	2697
65°	937	948	119	1273	1349	977
75°	162	162	22	287	298	196
85°	16	16	5	38	49	23
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°	10204.1	10204.1	10204.1	10204.1	10204.1	10204.1	10204.1	10204.1	10204.1	10204.1	10204.1
2.5°	10231.3	10215.0	10231.3	10231.3	10236.7	10225.8	10231.3	10236.7	10225.8	10225.8	10225.8
5°	10225.8	10215.0	10225.8	10220.4	10231.3	10231.3	10242.1	10242.1	10252.9	10252.9	10269.2
7.5°	10139.2	10117.6	10139.2	10155.5	10166.2	10187.9	10215.0	10236.7	10258.3	10280.0	10307.1
10°	9960.4	9960.4	9976.7	10009.2	10041.6	10079.5	10128.3	10182.5	10236.7	10285.3	10334.1
12.5°	9738.4	9722.1	9754.6	9797.9	9846.7	9906.3	9982.1	10063.4	10150.0	10247.4	10323.4
15°	9483.8	9467.5	9505.4	9548.8	9608.4	9695.1	9787.2	9895.4	10020.0	10150.0	10274.6
17.5°	9223.8	9218.4	9256.3	9315.9	9364.7	9456.7	9575.9	9705.8	9846.7	10020.0	10182.5
20°	8958.5	8953.1	8991.0	9039.7	9104.7	9191.3	9310.5	9462.1	9630.0	9825.1	10014.6
22.5°	8682.2	8687.6	8720.1	8774.3	8828.5	8920.5	9045.0	9196.8	9380.9	9592.1	9803.3
25°	8308.5	8281.4	8324.7	8379.0	8470.9	8546.7	8666.0	8828.5	9018.0	9240.1	9489.3
27.5°	7766.8	7761.4	7799.4	7848.1	7929.3	8021.4	8151.4	8319.3	8519.7	8763.4	9007.1
30°	7225.2	7236.1	7252.3	7301.1	7355.2	7447.3	7577.3	7718.2	7907.7	8140.5	8400.6
32.5°	6856.9	6856.9	6878.6	6911.1	6949.0	6997.8	7089.9	7192.7	7339.0	7501.5	7691.0
35°	6732.3	6710.7	6732.3	6737.8	6743.2	6754.1	6770.2	6802.8	6851.5	6922.0	6992.3
37.5°	6678.2	6661.9	6661.9	6640.3	6613.2	6580.7	6537.4	6488.6	6434.5	6364.0	6310.0
40°	6467.0	6456.1	6445.3	6423.7	6364.0	6299.1	6228.6	6114.9	5990.3	5817.0	5643.7
42.5°	6060.8	6049.9	6044.5	6001.2	5947.0	5871.2	5789.9	5670.8	5513.7	5291.6	5042.5
45°	5557.1	5535.3	5519.2	5481.3	5443.2	5378.3	5302.5	5194.1	5037.0	4809.6	4511.7
47.5°	4972.1	4961.2	4955.8	4939.6	4901.7	4863.7	4815.1	4728.4	4587.5	4370.8	4062.2
50°	4381.7	4360.1	4370.8	4365.5	4349.2	4322.2	4289.6	4230.1	4121.7	3926.7	3645.1
52.5°	3704.6	3704.6	3699.3	3715.5	3720.9	3715.5	3720.9	3656.0	3563.9	3417.6	3179.3
55°	3000.5	3000.5	3016.8	3038.6	3060.2	3065.6	3060.2	3033.1	2968.1	2848.9	2637.7
57.5°	2339.7	2329.0	2361.5	2393.9	2415.7	2437.3	2421.0	2399.4	2361.5	2263.9	2101.5
60°	1781.9	1781.9	1803.5	1825.3	1846.9	1868.6	1863.2	1857.7	1825.3	1760.2	1630.3
62.5°	1310.7	1316.1	1316.1	1332.4	1354.0	1375.8	1391.9	1375.8	1359.5	1316.1	1229.4
65°	937.0	931.5	937.0	953.3	969.6	991.2	1002.0	996.6	980.3	947.8	882.9
67.5°	628.3	622.9	644.5	649.9	660.8	682.5	677.1	682.5	677.1	649.9	595.8
70°	411.6	400.8	411.6	406.2	422.5	427.9	438.7	444.1	438.7	422.5	406.2
72.5°	254.6	249.1	254.6	260.0	265.4	270.8	281.6	281.6	276.2	265.4	243.7
75°	162.5	146.2	151.6	140.9	151.6	151.6	162.5	167.9	162.5	162.5	151.6
77.5°	97.5	97.5	97.5	97.5	97.5	97.5	97.5	103.0	108.3	97.5	92.1
80°	48.8	48.8	54.2	54.2	54.2	59.6	54.2	54.2	54.2	59.6	43.3
82.5°	37.9	32.5	32.5	32.5	37.9	32.5	32.5	32.5	32.5	32.5	32.5
85°	16.3	21.6	16.3	10.9	16.3	16.3	21.6	16.3	16.3	16.3	21.6
87.5°	5.4	5.4	0.0	0.0	0.0	5.4	0.0	5.4	5.4	10.9	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	10204.1	10204.1	10204.1	10204.1	10204.1	10204.1	10204.1	10204.1	10204.1	10204.1	10204.1
2.5°	10231.3	10220.4	10220.4	10215.0	10225.8	10215.0	10220.4	10215.0	10215.0	10225.8	10215.0
5°	10269.2	10274.6	10263.7	10258.3	10274.6	10274.6	10274.6	10263.7	10263.7	10269.2	10263.7
7.5°	10323.4	10334.1	10339.5	10345.0	10355.8	10361.3	10361.3	10355.8	10350.4	10366.7	10345.0
10°	10382.9	10399.2	10431.6	10447.9	10475.0	10475.0	10485.8	10485.8	10475.0	10485.8	10480.4
12.5°	10361.3	10458.7	10512.9	10550.8	10588.7	10621.2	10632.0	10637.5	10632.0	10653.8	10632.0
15°	10399.2	10480.4	10567.1	10632.0	10702.4	10740.3	10751.2	10794.5	10805.4	10810.8	10778.3
17.5°	10339.5	10485.8	10577.8	10675.4	10778.3	10848.7	10913.6	10940.8	10946.2	10957.0	10913.6
20°	10204.1	10366.7	10507.5	10648.3	10767.5	10875.7	10929.9	11005.8	10984.1	11027.5	10967.8
22.5°	10020.0	10204.1	10382.9	10567.1	10691.7	10821.7	10935.4	10989.5	11016.6	11016.6	10951.5
25°	9727.5	9944.2	10139.2	10328.7	10518.3	10675.4	10805.4	10886.6	10902.9	10897.5	10821.7
27.5°	9272.6	9505.4	9733.0	9949.6	10182.5	10366.7	10518.3	10615.7	10642.9	10642.9	10561.7
30°	8644.3	8893.4	9115.5	9375.4	9613.8	9819.6	10030.9	10117.6	10166.2	10166.2	10074.2
32.5°	7896.8	8108.1	8313.9	8568.5	8828.5	9061.3	9261.7	9380.9	9440.5	9435.1	9353.8
35°	7084.4	7187.3	7344.5	7534.0	7766.8	7983.5	8178.4	8292.3	8395.1	8389.7	8313.9
37.5°	6271.9	6244.9	6261.2	6331.6	6477.7	6629.5	6781.1	6889.5	6976.0	7014.1	6997.8
40°	5475.8	5335.0	5199.5	5150.9	5161.6	5215.8	5297.1	5378.3	5475.8	5524.6	5546.2
42.5°	4760.9	4522.6	4284.2	4105.5	4002.6	3970.1	4008.0	4035.0	4094.7	4165.0	4235.5
45°	4186.8	3867.2	3553.0	3276.8	3103.5	3000.5	2978.9	3000.5	3033.1	3103.5	3195.6
47.5°	3715.5	3341.8	2989.8	2681.0	2426.4	2291.1	2253.2	2242.3	2274.8	2339.7	2464.3
50°	3298.4	2924.7	2534.8	2177.3	1912.0	1760.2	1706.1	1684.4	1722.3	1771.1	1884.8
52.5°	2843.5	2475.2	2074.4	1727.7	1451.6	1294.5	1234.9	1202.4	1224.0	1289.1	1402.8
55°	2350.6	2009.4	1646.5	1289.1	1023.6	877.5	807.0	785.3	807.0	877.5	991.2
57.5°	1857.7	1570.7	1267.3	931.5	693.2	547.1	476.6	455.0	514.6	541.6	660.8
60°	1451.6	1218.7	958.7	682.5	476.6	362.9	292.5	276.2	303.3	352.0	449.5
62.5°	1088.7	942.4	736.6	487.4	352.0	232.9	194.9	178.8	194.9	232.9	308.8
65°	790.8	677.1	514.6	357.4	238.3	173.3	130.0	119.1	135.4	162.5	227.5
67.5°	541.6	455.0	357.4	249.1	162.5	108.3	92.1	92.1	97.5	119.1	167.9
70°	352.0	297.9	227.5	162.5	108.3	81.2	70.4	59.6	70.4	86.7	113.7
72.5°	222.1	189.5	146.2	113.7	81.2	59.6	48.8	43.3	54.2	64.9	86.7
75°	135.4	103.0	75.8	59.6	43.3	43.3	43.3	21.6	27.0	43.3	54.2
77.5°	81.2	70.4	59.6	48.8	37.9	21.6	21.6	21.6	27.0	32.5	48.8
80°	43.3	37.9	27.0	27.0	21.6	16.3	21.6	16.3	10.9	27.0	32.5
82.5°	27.0	21.6	21.6	21.6	27.0	10.9	16.3	10.9	16.3	21.6	16.3
85°	16.3	16.3	16.3	10.9	27.0	10.9	10.9	5.4	5.4	10.9	10.9
87.5°	0.0	5.4	5.4	0.0	5.4	0.0	5.4	5.4	5.4	5.4	5.4
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°	10204.1	10204.1	10204.1	10204.1	10204.1	10204.1	10204.1	10204.1	10204.1	10204.1	10204.1
2.5°	10220.4	10215.0	10220.4	10215.0	10215.0	10215.0	10220.4	10220.4	10215.0	10215.0	10225.8
5°	10263.7	10263.7	10263.7	10258.3	10252.9	10252.9	10263.7	10263.7	10247.4	10263.7	10263.7
7.5°	10355.8	10339.5	10355.8	10334.1	10323.4	10328.7	10334.1	10323.4	10312.5	10317.9	10317.9
10°	10475.0	10458.7	10458.7	10442.5	10426.2	10415.3	10404.6	10377.4	10350.4	10345.0	10323.4
12.5°	10615.7	10588.7	10572.5	10539.9	10512.9	10475.0	10442.5	10399.2	10345.0	10307.1	10269.2
15°	10756.6	10713.3	10675.4	10621.2	10561.7	10496.6	10426.2	10355.8	10269.2	10193.4	10128.3
17.5°	10870.3	10810.8	10740.3	10653.8	10567.1	10469.6	10366.7	10263.7	10139.2	10041.6	9965.8
20°	10908.2	10821.7	10729.6	10615.7	10502.0	10366.7	10236.7	10101.3	9960.4	9857.5	9770.9
22.5°	10859.6	10756.6	10642.9	10523.8	10372.0	10225.8	10074.2	9917.1	9792.5	9651.7	9570.5
25°	10724.1	10599.6	10475.0	10334.1	10187.9	10025.5	9863.0	9700.5	9548.8	9473.0	9370.1
27.5°	10447.9	10312.5	10177.1	10030.9	9863.0	9700.5	9532.6	9375.4	9245.5	9142.6	9083.1
30°	9960.4	9803.3	9646.3	9489.3	9342.9	9175.0	9018.0	8888.0	8758.0	8676.7	8617.2
32.5°	9212.9	9072.2	8915.2	8763.4	8628.1	8487.2	8357.2	8243.5	8151.4	8097.2	8053.9
35°	8205.6	8064.7	7945.6	7837.3	7723.5	7664.0	7582.7	7517.7	7479.8	7458.2	7452.7
37.5°	6938.1	6856.9	6819.0	6797.4	6775.7	6759.5	6770.2	6797.4	6819.0	6856.9	6900.2
40°	5584.1	5654.5	5676.2	5752.0	5822.4	5914.5	6017.5	6136.6	6234.0	6358.6	6445.3
42.5°	4349.2	4479.2	4630.9	4793.3	4966.7	5134.6	5340.4	5529.9	5703.3	5860.3	5995.7
45°	3341.8	3542.2	3769.7	4002.6	4235.5	4479.2	4728.4	4961.2	5167.1	5335.0	5475.8
47.5°	2605.2	2827.3	3119.8	3406.8	3688.5	3975.5	4251.7	4495.4	4668.8	4831.2	4955.8
50°	2063.6	2318.1	2637.7	2968.1	3276.8	3580.1	3872.5	4100.1	4273.4	4403.4	4495.4
52.5°	1597.7	1901.1	2226.0	2572.7	2903.1	3233.5	3504.3	3715.5	3856.4	3970.1	4040.5
55°	1191.5	1489.5	1836.1	2193.6	2529.4	2848.9	3103.5	3287.7	3412.3	3477.2	3515.1
57.5°	861.2	1132.0	1478.6	1836.1	2139.4	2442.7	2648.5	2816.4	2886.8	2924.7	2941.0
60°	628.3	877.5	1186.1	1494.9	1781.9	2025.7	2204.4	2318.1	2372.3	2393.9	2388.5
62.5°	460.4	677.1	942.4	1202.4	1435.3	1635.6	1776.5	1852.3	1879.5	1890.2	1874.0
65°	352.0	519.9	747.4	947.8	1126.6	1272.8	1375.8	1424.5	1440.7	1435.3	1424.5
67.5°	260.0	390.0	557.9	709.5	839.6	953.3	1007.5	1050.8	1061.5	1045.4	1029.1
70°	184.2	287.1	406.2	509.2	606.6	671.6	731.1	736.6	736.6	731.1	720.4
72.5°	130.0	200.4	276.2	346.7	406.2	455.0	476.6	492.9	487.4	482.0	471.3
75°	86.7	124.6	200.4	216.7	270.8	287.1	308.8	308.8	314.1	297.9	297.9
77.5°	54.2	86.7	119.1	140.9	162.5	184.2	194.9	194.9	200.4	194.9	194.9
80°	32.5	54.2	64.9	97.5	97.5	113.7	119.1	124.6	113.7	130.0	113.7
82.5°	21.6	32.5	48.8	48.8	59.6	70.4	70.4	75.8	75.8	70.4	70.4
85°	16.3	21.6	27.0	32.5	32.5	37.9	32.5	32.5	37.9	43.3	37.9
87.5°	5.4	10.9	5.4	10.9	10.9	21.6	16.3	16.3	16.3	21.6	21.6
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: P248514

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	10204.1	10204.1	10204.1	10204.1
2.5°	10215.0	10220.4	10215.0	10215.0
5°	10263.7	10258.3	10263.7	10252.9
7.5°	10301.6	10301.6	10296.2	10296.2
10°	10301.6	10280.0	10280.0	10280.0
12.5°	10220.4	10193.4	10177.1	10166.2
15°	10079.5	10030.9	10009.2	10003.7
17.5°	9895.4	9852.1	9825.1	9808.8
20°	9684.2	9640.9	9608.4	9613.8
22.5°	9500.0	9451.4	9429.6	9418.8
25°	9315.9	9256.3	9240.1	9229.2
27.5°	9018.0	8985.5	8969.2	8953.1
30°	8563.0	8546.7	8519.7	8557.6
32.5°	8037.7	8010.5	7988.9	8005.2
35°	7458.2	7441.9	7458.2	7447.3
37.5°	6927.4	6943.6	6965.3	6976.0
40°	6510.3	6569.8	6591.6	6602.3
42.5°	6093.3	6163.6	6207.0	6234.0
45°	5578.7	5649.1	5697.8	5730.4
47.5°	5047.9	5107.5	5156.2	5150.9
50°	4565.9	4598.4	4620.0	4641.7
52.5°	4078.4	4078.4	4083.8	4083.8
55°	3526.0	3515.1	3509.7	3515.1
57.5°	2919.3	2908.5	2903.1	2886.8
60°	2366.9	2334.4	2312.7	2312.7
62.5°	1852.3	1814.4	1798.2	1792.8
65°	1391.9	1386.5	1354.0	1348.6
67.5°	1007.5	985.7	964.1	969.6
70°	709.5	677.1	677.1	666.2
72.5°	460.4	444.1	438.7	438.7
75°	287.1	287.1	276.2	297.9
77.5°	189.5	189.5	184.2	189.5
80°	113.7	113.7	113.7	108.3
82.5°	70.4	75.8	70.4	70.4
85°	37.9	43.3	32.5	48.8
87.5°	21.6	27.0	21.6	27.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)