

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: P250286

Luminaire Tested: **LD8B175D010 ER8B175930 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250286
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: LD8B175D010 ER8B175930 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15445.2 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

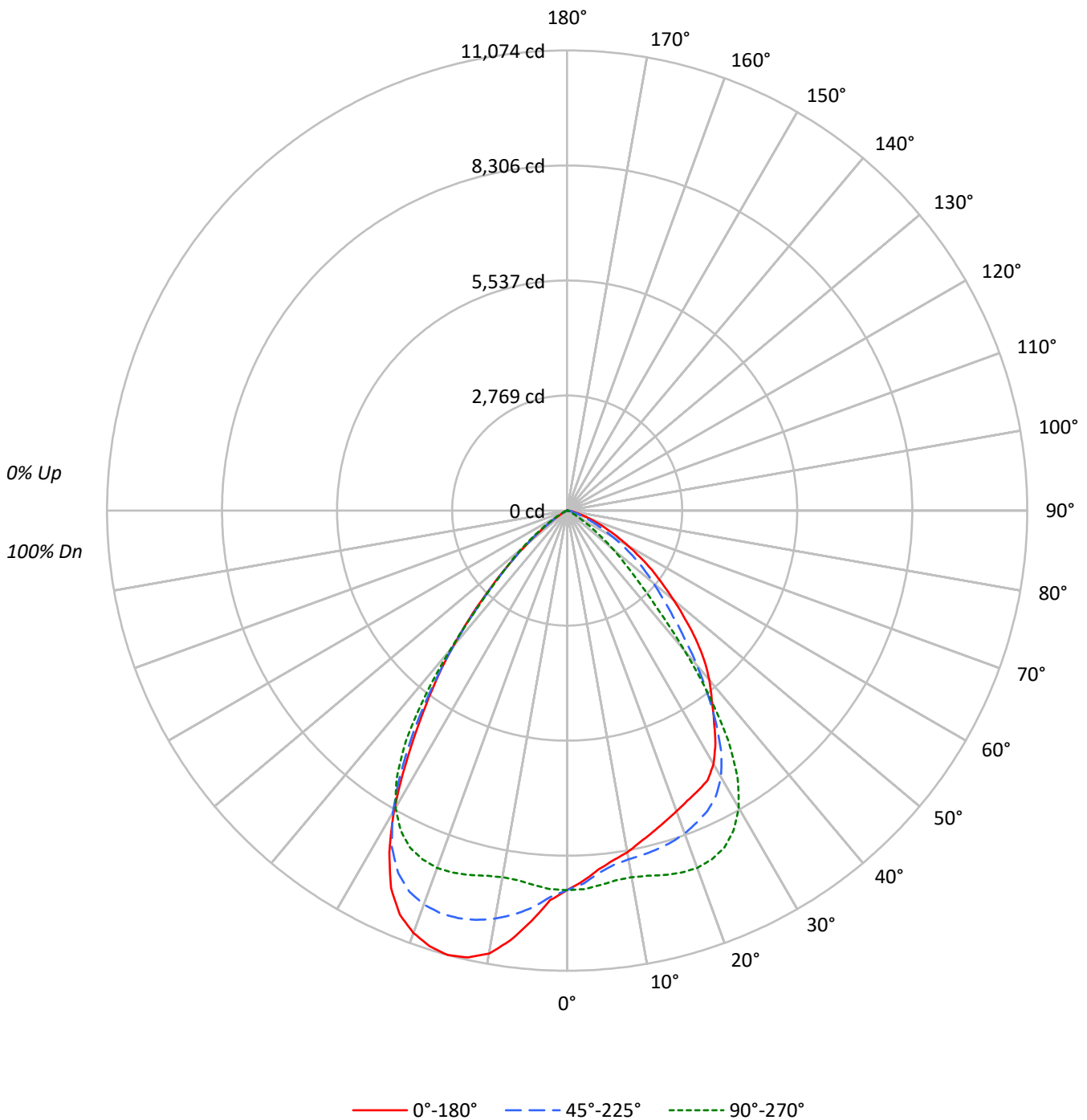
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	878.0	5.7
10°-20°	2627.7	17.0
20°-30°	4024.0	26.1
30°-40°	3944.8	25.5
40°-50°	2375.6	15.4
50°-60°	1093.4	7.1
60°-70°	384.1	2.5
70°-80°	100.5	0.7
80°-90°	17.1	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°	7529.6	48.8
0°-40°	11474.5	74.3
0°-60°	14943.5	96.8
0°-90°	15445.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15445.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9133	9133	9133	9133	9133	
5°	8668	8749	9047	9590	9918	819
15°	8002	8433	9077	10153	11074	2261
25°	7443	7981	8949	9624	10025	3428
35°	6158	6244	6760	6372	6167	3857
45°	4374	3602	2441	2458	2522	3354
55°	2484	1967	700	550	529	2216
65°	1054	730	111	56	60	1074
75°	273	158	9	0	0	331
85°	43	21	4	0	0	59
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°	9132.8	9132.8	9132.8	9132.8	9132.8	9132.8	9132.8	9132.8	9132.8	9132.8	9132.8
2.5°	8919.3	8927.9	8927.9	8927.9	8944.9	8949.4	8944.9	8949.4	8957.8	8987.6	9000.5
5°	8667.6	8654.8	8663.4	8658.9	8680.5	8693.2	8684.6	8697.5	8727.3	8748.7	8770.0
7.5°	8488.4	8488.4	8488.4	8496.8	8509.6	8535.3	8531.1	8539.6	8569.4	8599.3	8629.1
10°	8347.5	8343.4	8343.4	8364.6	8381.6	8411.5	8420.1	8445.7	8484.1	8522.5	8556.6
12.5°	8164.0	8168.4	8189.6	8211.1	8249.3	8296.3	8321.9	8356.2	8415.9	8479.8	8518.3
15°	8001.8	8006.1	8023.2	8065.8	8112.9	8168.4	8223.7	8279.3	8351.8	8432.9	8501.2
17.5°	7844.0	7848.1	7861.0	7908.1	7967.7	8040.3	8104.3	8176.8	8270.7	8364.6	8450.0
20°	7698.8	7694.7	7715.8	7758.6	7835.5	7903.6	7967.7	8053.2	8155.5	8270.7	8368.8
22.5°	7558.0	7558.0	7579.4	7622.0	7690.4	7758.6	7826.9	7916.5	8018.8	8129.9	8245.2
25°	7442.8	7438.5	7468.3	7489.8	7541.0	7609.2	7681.8	7754.3	7856.8	7980.6	8091.4
27.5°	7319.0	7314.9	7319.0	7344.7	7391.6	7442.8	7498.3	7562.4	7647.7	7750.1	7856.8
30°	7045.9	7050.1	7050.1	7071.5	7097.2	7152.5	7182.4	7246.5	7323.3	7408.7	7502.6
32.5°	6640.5	6644.7	6644.7	6653.2	6674.5	6700.2	6725.9	6772.7	6832.5	6905.0	6990.4
35°	6158.3	6158.3	6154.0	6158.3	6171.1	6171.1	6192.4	6171.1	6200.9	6243.6	6307.6
37.5°	5714.4	5705.8	5697.4	5688.7	5676.0	5654.7	5624.8	5573.5	5560.7	5543.7	5547.8
40°	5321.8	5317.6	5291.9	5270.5	5227.8	5176.7	5104.1	5014.6	4942.0	4856.6	4784.1
42.5°	4886.6	4882.1	4860.9	4822.4	4775.5	4698.8	4583.5	4464.0	4319.0	4190.9	4058.6
45°	4374.3	4387.1	4357.2	4314.6	4259.0	4186.5	4058.6	3913.4	3768.2	3601.9	3435.4
47.5°	3840.8	3836.6	3815.3	3789.7	3742.8	3670.3	3584.8	3426.9	3273.2	3119.7	2949.0
50°	3345.8	3328.8	3320.2	3294.7	3264.8	3205.1	3115.4	2987.2	2850.8	2705.6	2547.8
52.5°	2876.5	2876.5	2855.0	2837.9	2812.4	2765.4	2688.6	2586.3	2471.0	2334.4	2168.0
55°	2483.8	2475.3	2454.0	2432.6	2406.9	2377.1	2308.9	2223.5	2099.6	1967.4	1822.3
57.5°	2065.6	2061.2	2052.8	2027.1	2014.3	1984.4	1907.7	1822.3	1715.7	1600.5	1480.8
60°	1690.0	1673.0	1655.7	1638.7	1617.5	1587.6	1536.3	1463.8	1374.2	1271.8	1152.3
62.5°	1352.9	1378.4	1327.3	1327.3	1284.6	1259.0	1212.0	1169.3	1075.4	981.5	879.2
65°	1054.2	1054.2	1032.7	1015.6	990.1	960.1	913.3	870.6	802.2	729.7	657.1
67.5°	806.7	802.2	781.0	764.0	742.6	725.5	691.4	640.1	589.0	529.2	469.4
70°	593.2	589.0	584.6	554.8	537.7	516.4	490.8	456.7	418.2	375.5	320.0
72.5°	426.7	426.7	414.0	401.2	384.2	366.9	341.5	320.0	286.0	256.1	217.7
75°	273.2	268.9	268.9	247.5	247.5	221.8	204.8	192.0	175.0	157.9	123.9
77.5°	196.4	192.0	187.8	179.1	170.7	162.1	149.3	132.3	119.5	102.5	89.6
80°	132.3	123.9	119.5	119.5	106.6	102.5	106.6	81.2	76.8	63.9	55.5
82.5°	81.2	81.2	76.8	76.8	72.5	68.4	55.5	55.5	51.3	46.9	38.5
85°	42.7	55.5	38.5	42.7	38.5	42.7	38.5	29.8	25.7	21.3	21.3
87.5°	25.7	17.0	17.0	25.7	21.3	17.0	17.0	17.0	12.8	8.6	8.6
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°	9132.8	9132.8	9132.8	9132.8	9132.8	9132.8	9132.8	9132.8	9132.8	9132.8	9132.8
2.5°	8992.0	9021.9	9017.5	9056.0	9068.8	9098.7	9098.7	9119.9	9132.8	9162.6	9188.3
5°	8778.7	8825.5	8838.3	8885.3	8923.7	8970.6	9000.5	9047.4	9090.1	9154.2	9213.9
7.5°	8646.4	8684.6	8710.3	8765.8	8808.5	8859.6	8910.8	8974.8	9034.6	9111.5	9196.9
10°	8582.3	8633.5	8671.8	8727.3	8778.7	8834.2	8885.3	8957.8	9026.1	9124.3	9218.1
12.5°	8565.2	8624.9	8671.8	8748.7	8799.8	8859.6	8919.3	9000.5	9073.0	9175.4	9282.2
15°	8565.2	8646.4	8710.3	8795.7	8855.3	8932.1	8996.2	9077.2	9158.3	9265.1	9367.4
17.5°	8548.2	8646.4	8727.3	8825.5	8902.3	8979.2	9060.1	9137.2	9222.4	9324.9	9439.9
20°	8479.8	8603.7	8701.7	8816.9	8898.0	8983.5	9064.6	9149.8	9239.5	9346.2	9444.3
22.5°	8360.4	8505.5	8616.5	8740.1	8834.2	8919.3	9000.5	9085.8	9184.0	9286.5	9388.8
25°	8202.5	8338.9	8458.5	8586.4	8680.5	8774.2	8851.2	8949.4	9039.0	9137.2	9218.1
27.5°	7963.4	8108.4	8223.7	8356.2	8441.4	8531.1	8595.0	8676.2	8761.6	8842.6	8906.7
30°	7605.0	7737.3	7856.8	7976.3	8061.6	8125.7	8193.8	8258.0	8313.4	8368.8	8424.3
32.5°	7080.0	7199.6	7314.9	7425.7	7494.0	7549.5	7600.6	7639.1	7669.0	7698.8	7703.1
35°	6358.9	6457.0	6529.5	6627.7	6691.8	6742.9	6742.9	6760.0	6755.7	6742.9	6730.0
37.5°	5552.3	5590.5	5620.5	5658.9	5663.1	5663.1	5637.6	5616.2	5582.1	5573.5	5547.8
40°	4711.6	4660.2	4621.8	4570.7	4540.8	4476.7	4421.3	4382.9	4327.4	4319.0	4310.4
42.5°	3913.4	3793.9	3687.3	3597.7	3495.3	3405.5	3324.5	3264.8	3222.1	3217.7	3222.1
45°	3264.8	3128.2	2970.2	2846.6	2731.3	2620.3	2513.7	2441.2	2402.6	2394.1	2402.6
47.5°	2774.0	2616.1	2462.4	2321.5	2197.8	2074.1	1967.4	1869.2	1822.3	1809.5	1805.3
50°	2385.6	2223.5	2061.2	1916.1	1779.6	1655.7	1523.6	1429.7	1370.0	1348.6	1331.5
52.5°	2005.9	1860.7	1694.3	1545.0	1408.3	1263.1	1126.7	1019.9	960.1	934.7	917.4
55°	1673.0	1527.9	1374.2	1229.1	1084.0	938.9	802.2	699.8	635.9	606.0	584.6
57.5°	1335.7	1199.2	1067.0	921.9	802.2	661.5	524.9	435.3	379.8	345.7	328.7
60°	1032.7	926.1	810.8	691.4	576.2	461.0	349.9	264.6	221.8	196.4	175.0
62.5°	781.0	691.4	614.4	512.1	422.5	324.3	239.1	170.7	132.3	111.0	102.5
65°	563.3	495.0	426.7	362.8	298.7	226.2	162.1	111.0	76.8	63.9	59.7
67.5°	401.2	345.7	294.4	251.8	204.8	162.1	115.2	76.8	59.7	51.3	46.9
70°	281.6	239.1	204.8	166.6	136.5	106.6	89.6	55.5	34.1	38.5	29.8
72.5°	187.8	157.9	140.9	115.2	93.8	76.8	55.5	38.5	38.5	29.8	25.7
75°	102.5	93.8	72.5	55.5	46.9	42.7	17.0	8.6	4.3	12.8	4.3
77.5°	72.5	63.9	55.5	46.9	38.5	29.8	17.0	17.0	12.8	17.0	8.6
80°	46.9	38.5	34.1	34.1	21.3	12.8	8.6	8.6	12.8	4.3	4.3
82.5°	29.8	25.7	21.3	21.3	21.3	12.8	12.8	12.8	12.8	8.6	8.6
85°	17.0	12.8	8.6	8.6	4.3	8.6	0.0	4.3	4.3	0.0	0.0
87.5°	8.6	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°	9132.8	9132.8	9132.8	9132.8	9132.8	9132.8	9132.8	9132.8	9132.8	9132.8	9132.8
2.5°	9205.3	9222.4	9243.8	9260.8	9299.3	9307.7	9324.9	9342.0	9354.7	9367.4	9371.8
5°	9265.1	9329.2	9388.8	9452.8	9534.0	9589.5	9653.4	9708.9	9764.5	9811.3	9845.4
7.5°	9282.2	9380.3	9470.0	9580.9	9700.3	9802.9	9909.5	10016.1	10127.1	10212.5	10285.1
10°	9316.3	9435.8	9551.0	9683.3	9837.0	9973.4	10105.7	10246.6	10387.5	10506.9	10613.7
12.5°	9376.0	9508.3	9632.2	9777.2	9935.2	10088.7	10233.8	10391.7	10541.2	10673.5	10792.9
15°	9474.2	9597.9	9717.5	9854.0	10011.9	10152.8	10297.8	10451.4	10601.0	10737.4	10848.4
17.5°	9538.1	9653.4	9772.9	9896.6	10028.9	10157.0	10293.5	10430.1	10566.7	10690.5	10792.9
20°	9538.1	9649.2	9738.8	9849.8	9973.4	10084.5	10195.5	10314.9	10434.4	10536.8	10635.0
22.5°	9461.4	9568.1	9636.3	9721.8	9828.4	9922.3	9982.1	10114.3	10203.9	10293.5	10366.0
25°	9282.2	9359.0	9414.5	9474.2	9559.6	9623.6	9674.8	9751.6	9841.1	9875.4	9926.6
27.5°	8957.8	9013.3	9043.1	9056.0	9098.7	9132.8	9141.3	9175.4	9213.9	9222.4	9243.8
30°	8445.7	8450.0	8437.1	8432.9	8411.5	8386.0	8381.6	8377.5	8360.4	8343.4	8347.5
32.5°	7673.1	7651.9	7600.6	7545.3	7489.8	7430.1	7395.8	7353.1	7327.5	7302.0	7272.2
35°	6674.5	6623.4	6550.9	6482.5	6418.6	6371.5	6294.8	6269.1	6243.6	6209.4	6200.9
37.5°	5501.0	5471.2	5402.8	5351.7	5317.6	5296.2	5257.7	5232.2	5232.2	5219.4	5210.7
40°	4288.9	4280.5	4254.9	4267.6	4250.6	4259.0	4254.9	4246.2	4267.6	4267.6	4276.3
42.5°	3217.7	3222.1	3235.0	3243.4	3269.1	3273.2	3294.7	3294.7	3307.5	3320.2	3328.8
45°	2394.1	2411.3	2411.3	2428.3	2454.0	2458.2	2466.6	2471.0	2479.4	2500.8	2509.4
47.5°	1796.6	1800.9	1800.9	1805.3	1813.7	1822.3	1818.0	1822.3	1835.1	1826.6	1835.1
50°	1327.3	1331.5	1318.6	1305.9	1318.6	1318.6	1314.5	1301.6	1314.5	1297.4	1305.9
52.5°	904.9	900.4	887.6	892.0	883.3	879.2	879.2	870.6	870.6	870.6	853.5
55°	571.9	571.9	563.3	563.3	559.2	550.5	546.3	541.9	537.7	533.5	533.5
57.5°	320.0	324.3	311.6	307.3	311.6	307.3	298.7	298.7	298.7	286.0	294.4
60°	175.0	170.7	166.6	162.1	157.9	162.1	162.1	153.7	153.7	153.7	157.9
62.5°	93.8	93.8	89.6	89.6	85.4	85.4	93.8	81.2	85.4	81.2	85.4
65°	51.3	63.9	46.9	46.9	59.7	55.5	51.3	51.3	55.5	46.9	51.3
67.5°	55.5	38.5	34.1	38.5	34.1	34.1	34.1	42.7	38.5	29.8	38.5
70°	25.7	29.8	29.8	21.3	34.1	17.0	29.8	17.0	25.7	21.3	25.7
72.5°	25.7	25.7	25.7	17.0	25.7	17.0	21.3	21.3	17.0	17.0	25.7
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°	8.6	8.6	4.3	4.3	4.3	4.3	8.6	8.6	8.6	0.0	4.3
80°	8.6	8.6	0.0	4.3	0.0	0.0	4.3	0.0	4.3	0.0	8.6
82.5°	4.3	8.6	4.3	4.3	8.6	8.6	8.6	4.3	4.3	4.3	4.3
85°	0.0	4.3	0.0	0.0	0.0	0.0	8.6	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: P250286

CATALOG NUMBER: LD8B175D010 ER8B175930 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	9132.8	9132.8	9132.8	9132.8
2.5°	9376.0	9380.3	9388.8	9384.7
5°	9871.1	9905.3	9922.3	9918.2
7.5°	10336.2	10396.0	10430.1	10430.1
10°	10694.7	10763.1	10814.2	10822.8
12.5°	10886.7	10963.6	11032.0	11014.7
15°	10942.2	11019.2	11087.4	11074.5
17.5°	10878.3	10955.1	11006.3	10997.7
20°	10703.3	10767.2	10818.5	10814.2
22.5°	10430.1	10485.7	10528.3	10523.9
25°	9969.3	10007.7	10041.8	10024.8
27.5°	9260.8	9273.6	9294.9	9269.4
30°	8317.7	8326.1	8334.7	8330.5
32.5°	7259.4	7254.9	7246.5	7237.8
35°	6188.1	6188.1	6192.4	6166.7
37.5°	5215.0	5210.7	5223.6	5210.7
40°	4284.7	4280.5	4297.6	4276.3
42.5°	3341.6	3354.4	3358.6	3358.6
45°	2513.7	2517.9	2522.1	2522.1
47.5°	1835.1	1839.3	1860.7	1835.1
50°	1297.4	1301.6	1305.9	1297.4
52.5°	857.8	862.2	857.8	844.9
55°	524.9	529.2	529.2	529.2
57.5°	281.6	286.0	286.0	281.6
60°	153.7	149.3	153.7	145.1
62.5°	81.2	89.6	85.4	76.8
65°	51.3	51.3	51.3	59.7
67.5°	42.7	34.1	38.5	29.8
70°	25.7	29.8	29.8	21.3
72.5°	21.3	21.3	21.3	25.7
75°	0.0	0.0	0.0	0.0
77.5°	8.6	8.6	8.6	4.3
80°	4.3	0.0	4.3	0.0
82.5°	4.3	4.3	8.6	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)