

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: P248504

Luminaire Tested: **LD8B175D010 ER8B175935 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248504
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: LD8B175D010 ER8B175935 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15977.0 lumens
Efficiency: N/A
Efficacy: 90.2 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

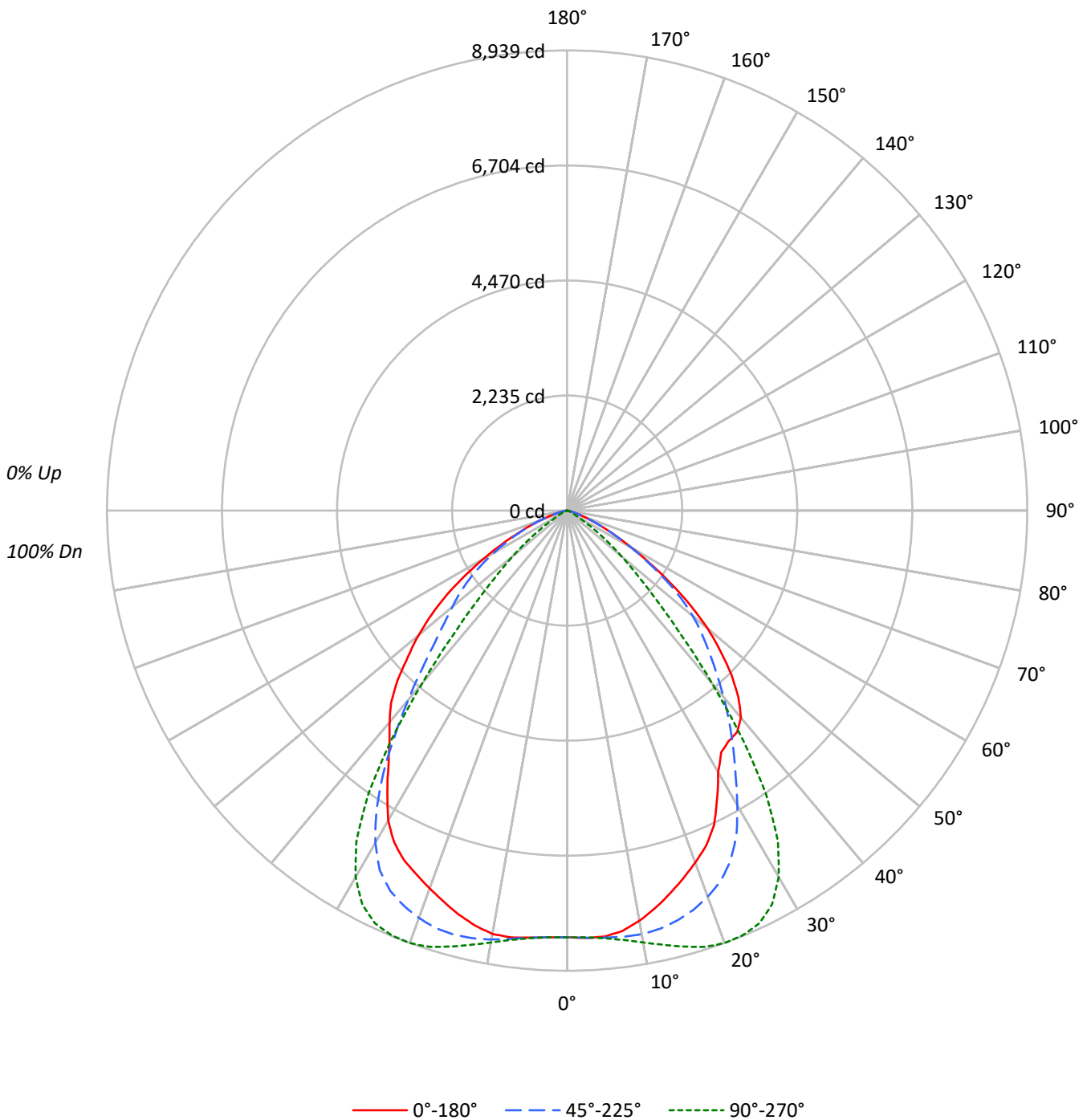
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	255581	255581	255581
5°	257105	258055	257783
10°	253324	266691	261455
15°	245921	279907	259399
20°	238781	293349	256252
25°	229615	300865	255062
30°	208965	292616	247499
35°	205850	253549	227713
40°	211446	175849	215870
45°	196839	106284	202979
50°	170740	65636	180867
55°	131027	34294	153500
60°	89265	13833	115852
65°	55526	7063	79926
70°	30140	4364	48785
75°	15727	2085	28832
80°	7032	2344	15609
85°	4670	1557	14011



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	797.1	5.0
10°-20°	2361.2	14.8
20°-30°	3602.3	22.5
30°-40°	3759.1	23.5
40°-50°	2823.5	17.7
50°-60°	1737.3	10.9
60°-70°	707.0	4.4
70°-80°	166.6	1.0
80°-90°	22.9	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°	6760.6	42.3
0°-40°	10519.7	65.8
0°-60°	15080.5	94.4
0°-90°	15977.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15977.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8288	8288	8288	8288	8288	
5°	8306	8328	8337	8328	8328	786
15°	7703	8244	8768	8526	8126	2170
25°	6749	7505	8843	8143	7496	3068
35°	5468	5622	6735	6225	6049	3453
45°	4514	3907	2437	3638	4654	3444
55°	2437	2314	638	2314	2855	2191
65°	761	770	97	1034	1095	794
75°	132	132	18	233	242	159
85°	13	13	4	31	40	19
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°	8288.3	8288.3	8288.3	8288.3	8288.3	8288.3	8288.3	8288.3	8288.3	8288.3	8288.3
2.5°	8310.4	8297.1	8310.4	8310.4	8314.8	8306.0	8310.4	8314.8	8306.0	8306.0	8306.0
5°	8306.0	8297.1	8306.0	8301.5	8310.4	8310.4	8319.2	8319.2	8327.9	8327.9	8341.2
7.5°	8235.6	8218.0	8235.6	8248.8	8257.5	8275.2	8297.1	8314.8	8332.3	8350.0	8371.9
10°	8090.3	8090.3	8103.6	8130.0	8156.3	8187.1	8226.7	8270.8	8314.8	8354.3	8393.9
12.5°	7910.0	7896.8	7923.2	7958.4	7998.0	8046.4	8108.0	8174.0	8244.4	8323.5	8385.2
15°	7703.3	7690.0	7720.8	7756.0	7804.4	7874.8	7949.7	8037.6	8138.8	8244.4	8345.6
17.5°	7492.1	7487.6	7518.4	7566.9	7606.5	7681.2	7778.1	7883.6	7998.0	8138.8	8270.8
20°	7276.5	7272.1	7302.9	7342.5	7395.3	7465.7	7562.5	7685.6	7822.0	7980.4	8134.4
22.5°	7052.1	7056.5	7082.9	7126.9	7171.0	7245.7	7346.8	7470.1	7619.6	7791.2	7962.8
25°	6748.6	6726.6	6761.8	6805.8	6880.5	6942.1	7039.0	7171.0	7324.9	7505.3	7707.7
27.5°	6308.6	6304.2	6335.1	6374.6	6440.6	6515.4	6621.0	6757.4	6920.1	7118.1	7316.1
30°	5868.7	5877.5	5890.7	5930.3	5974.3	6049.1	6154.7	6269.1	6423.0	6612.2	6823.4
32.5°	5569.5	5569.5	5587.2	5613.6	5644.3	5684.0	5758.8	5842.3	5961.1	6093.1	6247.0
35°	5468.3	5450.8	5468.3	5472.8	5477.2	5486.0	5499.1	5525.6	5565.1	5622.4	5679.5
37.5°	5424.4	5411.2	5411.2	5393.6	5371.6	5345.2	5310.0	5270.4	5226.5	5169.2	5125.3
40°	5252.8	5244.0	5235.2	5217.6	5169.2	5116.4	5059.2	4966.8	4865.6	4724.8	4584.1
42.5°	4922.9	4914.1	4909.7	4874.5	4830.4	4768.9	4702.9	4606.1	4478.5	4298.1	4095.8
45°	4513.7	4496.1	4483.0	4452.2	4421.3	4368.5	4307.0	4218.9	4091.4	3906.6	3664.6
47.5°	4038.6	4029.8	4025.4	4012.2	3981.4	3950.6	3911.0	3840.6	3726.2	3550.2	3299.5
50°	3559.1	3541.5	3550.2	3545.9	3532.7	3510.7	3484.2	3435.9	3347.9	3189.5	2960.8
52.5°	3009.1	3009.1	3004.8	3017.9	3022.3	3017.9	3022.3	2969.6	2894.8	2775.9	2582.4
55°	2437.2	2437.2	2450.4	2468.1	2485.6	2490.0	2485.6	2463.7	2410.8	2314.0	2142.4
57.5°	1900.5	1891.7	1918.1	1944.5	1962.1	1979.7	1966.5	1948.9	1918.1	1838.9	1706.9
60°	1447.4	1447.4	1464.9	1482.6	1500.1	1517.8	1513.4	1509.0	1482.6	1429.7	1324.2
62.5°	1064.6	1069.0	1069.0	1082.3	1099.8	1117.5	1130.6	1117.5	1104.2	1069.0	998.6
65°	761.0	756.6	761.0	774.3	787.5	805.1	813.9	809.5	796.2	769.9	717.1
67.5°	510.3	505.9	523.5	527.9	536.7	554.4	550.0	554.4	550.0	527.9	484.0
70°	334.3	325.5	334.3	329.9	343.2	347.6	356.3	360.7	356.3	343.2	329.9
72.5°	206.8	202.4	206.8	211.2	215.6	219.9	228.7	228.7	224.3	215.6	198.0
75°	132.0	118.7	123.1	114.4	123.1	123.1	132.0	136.4	132.0	132.0	123.1
77.5°	79.2	79.2	79.2	79.2	79.2	79.2	79.2	83.6	87.9	79.2	74.8
80°	39.6	39.6	44.0	44.0	44.0	48.4	44.0	44.0	44.0	48.4	35.2
82.5°	30.8	26.4	26.4	26.4	30.8	26.4	26.4	26.4	26.4	26.4	26.4
85°	13.2	17.5	13.2	8.8	13.2	13.2	17.5	13.2	13.2	13.2	17.5
87.5°	4.4	4.4	0.0	0.0	0.0	4.4	0.0	4.4	4.4	8.8	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°	8288.3	8288.3	8288.3	8288.3	8288.3	8288.3	8288.3	8288.3	8288.3	8288.3	8288.3
2.5°	8310.4	8301.5	8301.5	8297.1	8306.0	8297.1	8301.5	8297.1	8297.1	8306.0	8297.1
5°	8341.2	8345.6	8336.7	8332.3	8345.6	8345.6	8345.6	8336.7	8336.7	8341.2	8336.7
7.5°	8385.2	8393.9	8398.3	8402.7	8411.6	8416.0	8416.0	8411.6	8407.1	8420.4	8402.7
10°	8433.5	8446.8	8473.1	8486.4	8508.3	8508.3	8517.2	8517.2	8508.3	8517.2	8512.7
12.5°	8416.0	8495.1	8539.1	8569.9	8600.7	8627.1	8635.9	8640.3	8635.9	8653.5	8635.9
15°	8446.8	8512.7	8583.1	8635.9	8693.0	8723.8	8732.7	8767.9	8776.7	8781.1	8754.7
17.5°	8398.3	8517.2	8591.9	8671.1	8754.7	8811.9	8864.6	8886.7	8891.1	8899.8	8864.6
20°	8288.3	8420.4	8534.7	8649.1	8745.9	8833.8	8877.9	8939.4	8921.9	8957.1	8908.7
22.5°	8138.8	8288.3	8433.5	8583.1	8684.3	8789.9	8882.3	8926.2	8948.3	8948.3	8895.4
25°	7901.2	8077.2	8235.6	8389.5	8543.5	8671.1	8776.7	8842.7	8855.9	8851.5	8789.9
27.5°	7531.7	7720.8	7905.6	8081.6	8270.8	8420.4	8543.5	8622.6	8644.7	8644.7	8578.7
30°	7021.3	7223.7	7404.1	7615.2	7808.9	7976.0	8147.6	8218.0	8257.5	8257.5	8182.8
32.5°	6414.2	6585.8	6753.0	6959.8	7171.0	7360.1	7522.8	7619.6	7668.1	7663.6	7597.7
35°	5754.4	5837.9	5965.5	6119.5	6308.6	6484.6	6643.0	6735.4	6819.0	6814.5	6753.0
37.5°	5094.4	5072.4	5085.7	5142.8	5261.6	5384.8	5508.0	5596.0	5666.3	5697.2	5684.0
40°	4447.8	4333.3	4223.3	4183.8	4192.5	4236.6	4302.6	4368.5	4447.8	4487.4	4504.9
42.5°	3867.0	3673.5	3479.8	3334.7	3251.1	3224.7	3255.5	3277.5	3325.9	3383.1	3440.3
45°	3400.7	3141.2	2885.9	2661.6	2520.8	2437.2	2419.6	2437.2	2463.7	2520.8	2595.6
47.5°	3017.9	2714.4	2428.5	2177.6	1970.9	1861.0	1830.2	1821.3	1847.7	1900.5	2001.7
50°	2679.2	2375.6	2058.9	1768.5	1553.0	1429.7	1385.8	1368.2	1398.9	1438.6	1530.9
52.5°	2309.6	2010.5	1685.0	1403.4	1179.0	1051.5	1003.0	976.7	994.2	1047.1	1139.4
55°	1909.3	1632.1	1337.4	1047.1	831.4	712.7	655.4	637.9	655.4	712.7	805.1
57.5°	1509.0	1275.8	1029.4	756.6	563.1	444.4	387.1	369.5	418.0	439.9	536.7
60°	1179.0	989.9	778.7	554.4	387.1	294.7	237.6	224.3	246.4	285.9	365.1
62.5°	884.3	765.5	598.3	395.9	285.9	189.1	158.3	145.2	158.3	189.1	250.8
65°	642.3	550.0	418.0	290.3	193.5	140.8	105.6	96.8	110.0	132.0	184.8
67.5°	439.9	369.5	290.3	202.4	132.0	87.9	74.8	74.8	79.2	96.8	136.4
70°	285.9	242.0	184.8	132.0	87.9	66.0	57.2	48.4	57.2	70.4	92.4
72.5°	180.4	153.9	118.7	92.4	66.0	48.4	39.6	35.2	44.0	52.7	70.4
75°	110.0	83.6	61.6	48.4	35.2	35.2	35.2	17.5	22.0	35.2	44.0
77.5°	66.0	57.2	48.4	39.6	30.8	17.5	17.5	17.5	22.0	26.4	39.6
80°	35.2	30.8	22.0	22.0	17.5	13.2	17.5	13.2	8.8	22.0	26.4
82.5°	22.0	17.5	17.5	17.5	22.0	8.8	13.2	8.8	13.2	17.5	13.2
85°	13.2	13.2	13.2	8.8	22.0	8.8	8.8	4.4	4.4	8.8	8.8
87.5°	0.0	4.4	4.4	0.0	4.4	0.0	4.4	4.4	4.4	4.4	4.4
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°	8288.3	8288.3	8288.3	8288.3	8288.3	8288.3	8288.3	8288.3	8288.3	8288.3	8288.3
2.5°	8301.5	8297.1	8301.5	8297.1	8297.1	8297.1	8301.5	8301.5	8297.1	8297.1	8306.0
5°	8336.7	8336.7	8336.7	8332.3	8327.9	8327.9	8336.7	8336.7	8323.5	8336.7	8336.7
7.5°	8411.6	8398.3	8411.6	8393.9	8385.2	8389.5	8393.9	8385.2	8376.4	8380.8	8380.8
10°	8508.3	8495.1	8495.1	8482.0	8468.7	8459.9	8451.2	8429.1	8407.1	8402.7	8385.2
12.5°	8622.6	8600.7	8587.6	8561.1	8539.1	8508.3	8482.0	8446.8	8402.7	8371.9	8341.2
15°	8737.1	8701.9	8671.1	8627.1	8578.7	8525.9	8468.7	8411.6	8341.2	8279.6	8226.7
17.5°	8829.4	8781.1	8723.8	8653.5	8583.1	8503.9	8420.4	8336.7	8235.6	8156.3	8094.8
20°	8860.2	8789.9	8715.1	8622.6	8530.3	8420.4	8314.8	8204.8	8090.3	8006.8	7936.4
22.5°	8820.7	8737.1	8644.7	8547.9	8424.7	8306.0	8182.8	8055.1	7954.0	7839.6	7773.7
25°	8710.7	8609.5	8508.3	8393.9	8275.2	8143.2	8011.2	7879.3	7756.0	7694.4	7610.9
27.5°	8486.4	8376.4	8266.3	8147.6	8011.2	7879.3	7742.9	7615.2	7509.7	7426.1	7377.7
30°	8090.3	7962.8	7835.2	7707.7	7588.8	7452.4	7324.9	7219.3	7113.7	7047.7	6999.4
32.5°	7483.2	7368.9	7241.4	7118.1	7008.2	6893.8	6788.2	6695.8	6621.0	6577.0	6541.8
35°	6665.0	6550.6	6453.8	6365.9	6273.4	6225.1	6159.1	6106.2	6075.5	6057.9	6053.5
37.5°	5635.5	5569.5	5538.7	5521.2	5503.5	5490.4	5499.1	5521.2	5538.7	5569.5	5604.7
40°	4535.7	4592.9	4610.5	4672.1	4729.3	4804.1	4887.7	4984.5	5063.6	5164.8	5235.2
42.5°	3532.7	3638.3	3761.4	3893.4	4034.2	4170.6	4337.7	4491.7	4632.5	4760.0	4870.1
45°	2714.4	2877.1	3061.9	3251.1	3440.3	3638.3	3840.6	4029.8	4197.0	4333.3	4447.8
47.5°	2116.1	2296.5	2534.1	2767.2	2996.0	3229.1	3453.5	3651.4	3792.2	3924.2	4025.4
50°	1676.1	1882.9	2142.4	2410.8	2661.6	2907.9	3145.5	3330.3	3471.1	3576.7	3651.4
52.5°	1297.8	1544.2	1808.1	2089.7	2358.1	2626.4	2846.3	3017.9	3132.3	3224.7	3281.9
55°	967.8	1209.8	1491.4	1781.7	2054.5	2314.0	2520.8	2670.4	2771.6	2824.4	2855.2
57.5°	699.5	919.5	1201.0	1491.4	1737.7	1984.1	2151.3	2287.7	2344.8	2375.6	2388.8
60°	510.3	712.7	963.4	1214.2	1447.4	1645.3	1790.6	1882.9	1926.9	1944.5	1940.1
62.5°	374.0	550.0	765.5	976.7	1165.8	1328.6	1443.0	1504.5	1526.6	1535.3	1522.2
65°	285.9	422.3	607.1	769.9	915.1	1033.8	1117.5	1157.1	1170.2	1165.8	1157.1
67.5°	211.2	316.8	453.2	576.3	681.9	774.3	818.3	853.5	862.2	849.1	835.9
70°	149.6	233.2	329.9	413.6	492.7	545.5	593.9	598.3	598.3	593.9	585.2
72.5°	105.6	162.8	224.3	281.6	329.9	369.5	387.1	400.3	395.9	391.5	382.8
75°	70.4	101.2	162.8	176.0	219.9	233.2	250.8	250.8	255.1	242.0	242.0
77.5°	44.0	70.4	96.8	114.4	132.0	149.6	158.3	158.3	162.8	158.3	158.3
80°	26.4	44.0	52.7	79.2	79.2	92.4	96.8	101.2	92.4	105.6	92.4
82.5°	17.5	26.4	39.6	39.6	48.4	57.2	57.2	61.6	61.6	57.2	57.2
85°	13.2	17.5	22.0	26.4	26.4	30.8	26.4	26.4	30.8	35.2	30.8
87.5°	4.4	8.8	4.4	8.8	8.8	17.5	13.2	13.2	13.2	17.5	17.5
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: P248504

CATALOG NUMBER: LD8B175D010 ER8B175935 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	8288.3	8288.3	8288.3	8288.3
2.5°	8297.1	8301.5	8297.1	8297.1
5°	8336.7	8332.3	8336.7	8327.9
7.5°	8367.5	8367.5	8363.1	8363.1
10°	8367.5	8350.0	8350.0	8350.0
12.5°	8301.5	8279.6	8266.3	8257.5
15°	8187.1	8147.6	8130.0	8125.5
17.5°	8037.6	8002.4	7980.4	7967.2
20°	7866.0	7830.8	7804.4	7808.9
22.5°	7716.4	7676.9	7659.2	7650.4
25°	7566.9	7518.4	7505.3	7496.5
27.5°	7324.9	7298.5	7285.3	7272.1
30°	6955.3	6942.1	6920.1	6950.9
32.5°	6528.6	6506.6	6489.0	6502.3
35°	6057.9	6044.7	6057.9	6049.1
37.5°	5626.8	5639.9	5657.6	5666.3
40°	5288.0	5336.4	5354.0	5362.7
42.5°	4949.3	5006.4	5041.6	5063.6
45°	4531.3	4588.5	4628.1	4654.5
47.5°	4100.2	4148.6	4188.1	4183.8
50°	3708.7	3735.0	3752.6	3770.2
52.5°	3312.7	3312.7	3317.1	3317.1
55°	2864.0	2855.2	2850.7	2855.2
57.5°	2371.2	2362.5	2358.1	2344.8
60°	1922.5	1896.2	1878.5	1878.5
62.5°	1504.5	1473.8	1460.6	1456.2
65°	1130.6	1126.2	1099.8	1095.4
67.5°	818.3	800.7	783.1	787.5
70°	576.3	550.0	550.0	541.1
72.5°	374.0	360.7	356.3	356.3
75°	233.2	233.2	224.3	242.0
77.5°	153.9	153.9	149.6	153.9
80°	92.4	92.4	92.4	87.9
82.5°	57.2	61.6	57.2	57.2
85°	30.8	35.2	26.4	39.6
87.5°	17.5	22.0	17.5	22.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)