

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: P249205

Luminaire Tested: **LD8B150D010 ER8B150830 8LBDW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249205
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B150D010 ER8B150830 8LBDW0WMH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15752.0 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

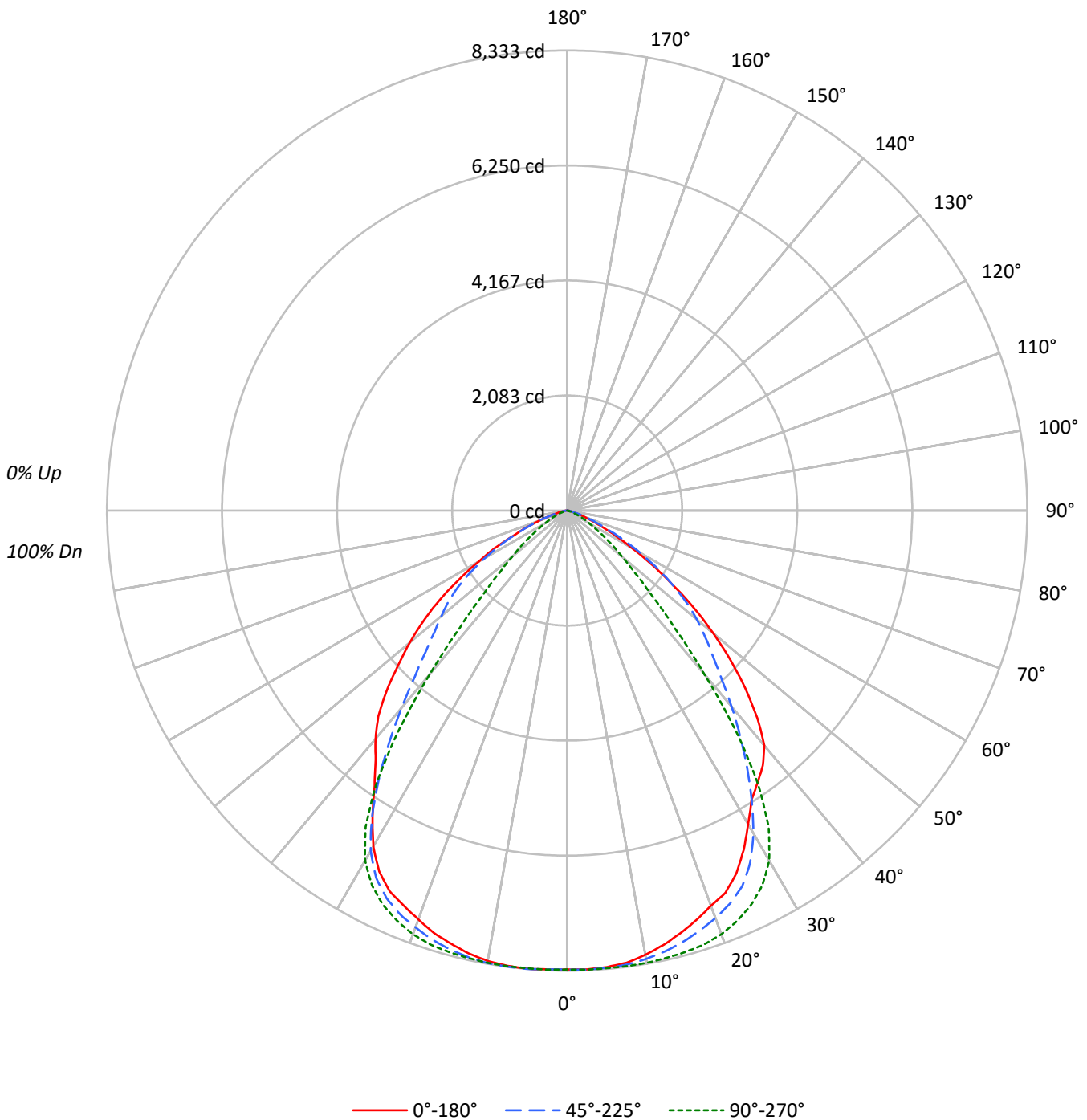
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	256284	256284	256284
5°	256845	257538	257817
10°	255766	260375	259257
15°	252931	264185	259201
20°	249895	267898	258532
25°	246651	268205	258794
30°	233345	260666	250023
35°	226377	226543	228899
40°	223574	155871	217291
45°	199215	93576	201936
50°	165645	62278	178488
55°	124232	42934	151333
60°	84189	28610	114181
65°	50784	18555	78445
70°	28157	10062	48262
75°	12760	4253	24984
80°	11081	4741	17421
85°	12631	6298	17372



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	793.2	5.0
10°-20°	2303.5	14.6
20°-30°	3496.3	22.2
30°-40°	3672.1	23.3
40°-50°	2753.1	17.5
50°-60°	1766.5	11.2
60°-70°	755.7	4.8
70°-80°	178.5	1.1
80°-90°	33.2	0.2
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°	6592.9	41.9
0°-40°	10265.0	65.2
0°-60°	14784.6	93.9
0°-90°	15752.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15752.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8311	8311	8311	8311	8311	
5°	8298	8311	8320	8333	8329	788
15°	7923	8088	8275	8222	8119	2235
25°	7249	7504	7883	7740	7606	3312
35°	6014	5679	6018	5947	6081	3774
45°	4568	3734	2146	3627	4631	3498
55°	2311	2311	799	2409	2815	2096
65°	696	821	254	1057	1075	743
75°	107	125	36	214	210	156
85°	36	22	18	36	49	38
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°	8311.1	8311.1	8311.1	8311.1	8311.1	8311.1	8311.1	8311.1	8311.1	8311.1	8311.1
2.5°	8315.5	8324.5	8320.0	8320.0	8315.5	8320.0	8320.0	8329.0	8329.0	8320.0	8315.5
5°	8297.6	8306.6	8306.6	8297.6	8297.6	8320.0	8306.6	8315.5	8315.5	8311.1	8311.1
7.5°	8257.6	8257.6	8275.4	8262.1	8262.1	8275.4	8270.9	8279.8	8288.8	8293.3	8293.3
10°	8168.3	8177.2	8181.7	8181.7	8186.2	8199.5	8208.5	8226.4	8235.2	8244.2	8248.6
12.5°	8056.8	8070.2	8074.6	8070.2	8083.6	8101.4	8123.8	8146.0	8159.4	8177.2	8190.7
15°	7922.9	7922.9	7931.9	7945.3	7954.2	7981.0	8003.2	8030.0	8065.7	8088.1	8110.3
17.5°	7775.8	7784.7	7798.0	7798.0	7815.9	7860.5	7873.9	7914.1	7954.2	7976.5	8021.1
20°	7615.2	7624.0	7637.5	7646.4	7668.7	7704.4	7731.1	7766.8	7811.5	7851.6	7896.2
22.5°	7490.2	7472.4	7481.3	7490.2	7512.6	7543.8	7575.0	7619.6	7664.2	7704.4	7749.0
25°	7249.3	7253.8	7267.2	7276.0	7302.9	7329.6	7365.3	7418.8	7459.0	7503.6	7552.6
27.5°	6923.7	6928.2	6950.4	6950.4	6972.7	7017.3	7039.6	7084.3	7137.8	7182.4	7240.5
30°	6553.4	6562.3	6562.3	6580.2	6593.5	6615.9	6638.1	6682.8	6709.5	6749.7	6830.0
32.5°	6214.4	6223.2	6218.8	6214.4	6201.0	6196.5	6192.0	6201.0	6209.9	6223.2	6254.4
35°	6013.6	5991.3	5973.5	5942.3	5906.6	5861.9	5821.8	5768.3	5719.1	5679.0	5634.4
37.5°	5821.8	5817.3	5790.5	5745.9	5674.5	5594.3	5500.6	5384.6	5268.5	5143.7	5023.3
40°	5554.1	5540.7	5518.4	5456.0	5375.6	5277.5	5152.6	5009.8	4822.4	4630.6	4434.4
42.5°	5099.0	5103.5	5076.8	5027.6	4951.9	4858.1	4728.8	4572.7	4371.9	4144.3	3890.1
45°	4568.2	4568.2	4559.2	4519.1	4465.6	4389.7	4291.6	4162.2	3966.0	3733.9	3461.8
47.5°	4015.0	4019.5	4006.0	3997.2	3974.8	3925.8	3854.4	3756.3	3618.0	3394.9	3122.8
50°	3452.9	3452.9	3475.2	3470.7	3470.7	3452.9	3421.7	3363.7	3243.3	3064.8	2810.6
52.5°	2890.8	2899.7	2913.2	2931.0	2953.2	2988.9	2953.2	2926.5	2850.6	2712.3	2493.8
55°	2310.8	2319.8	2342.1	2373.3	2400.1	2435.8	2444.7	2444.7	2404.5	2310.8	2145.8
57.5°	1815.7	1802.3	1820.2	1846.9	1882.6	1918.3	1945.1	1976.3	1971.8	1909.4	1775.5
60°	1365.1	1369.6	1382.9	1409.8	1436.5	1467.7	1503.4	1530.2	1543.6	1512.4	1427.5
62.5°	994.9	994.9	1012.6	1039.4	1052.8	1097.5	1119.7	1133.2	1146.5	1142.0	1088.5
65°	696.0	704.8	713.8	727.2	740.5	767.3	780.7	807.4	816.4	820.9	780.7
67.5°	490.8	477.3	486.3	495.1	508.6	526.5	553.2	553.2	566.5	566.5	539.8
70°	312.3	312.3	316.8	330.1	339.0	343.5	352.5	361.3	374.7	370.3	370.3
72.5°	209.7	205.2	209.7	214.2	218.6	232.0	232.0	236.4	245.4	249.9	232.0
75°	107.1	111.6	120.4	116.0	129.4	120.4	124.9	138.3	133.8	124.9	124.9
77.5°	89.2	89.2	89.2	84.8	93.7	93.7	89.2	98.1	93.7	93.7	89.2
80°	62.4	66.9	62.4	58.0	62.4	58.0	58.0	58.0	58.0	58.0	53.5
82.5°	49.1	40.2	44.6	40.2	44.6	44.6	40.2	35.7	35.7	40.2	35.7
85°	35.7	26.7	31.2	31.2	26.7	26.7	26.7	26.7	26.7	22.3	22.3
87.5°	22.3	13.4	13.4	13.4	17.8	17.8	17.8	13.4	17.8	17.8	8.9
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°	8311.1	8311.1	8311.1	8311.1	8311.1	8311.1	8311.1	8311.1	8311.1	8311.1	8311.1
2.5°	8324.5	8320.0	8329.0	8324.5	8324.5	8320.0	8324.5	8320.0	8329.0	8311.1	8315.5
5°	8324.5	8315.5	8320.0	8324.5	8329.0	8320.0	8320.0	8320.0	8329.0	8320.0	8324.5
7.5°	8306.6	8302.1	8315.5	8324.5	8320.0	8315.5	8324.5	8320.0	8329.0	8324.5	8333.3
10°	8270.9	8275.4	8284.3	8297.6	8302.1	8306.6	8315.5	8315.5	8329.0	8311.1	8320.0
12.5°	8217.4	8235.2	8257.6	8266.4	8284.3	8284.3	8293.3	8297.6	8306.6	8302.1	8315.5
15°	8150.5	8172.8	8199.5	8221.9	8244.2	8257.6	8270.9	8275.4	8288.8	8275.4	8279.8
17.5°	8070.2	8096.9	8137.1	8163.8	8199.5	8212.9	8230.7	8239.7	8253.1	8244.2	8248.6
20°	7958.6	7989.9	8034.5	8074.6	8096.9	8128.1	8150.5	8163.8	8172.8	8163.8	8168.3
22.5°	7802.5	7847.1	7905.1	7936.3	7981.0	8007.7	8012.2	8043.4	8065.7	8043.4	8052.4
25°	7619.6	7664.2	7708.8	7775.8	7815.9	7847.1	7878.4	7882.8	7905.1	7900.6	7896.2
27.5°	7316.2	7374.3	7450.0	7503.6	7557.1	7606.2	7641.9	7650.8	7673.2	7664.2	7668.7
30°	6901.3	6963.9	7035.2	7119.9	7195.8	7244.8	7289.5	7320.7	7343.0	7329.6	7325.2
32.5°	6312.5	6375.0	6450.8	6535.5	6624.8	6696.1	6749.7	6789.9	6816.6	6807.7	6785.4
35°	5638.9	5656.7	5705.8	5772.7	5848.5	5924.4	5973.5	6018.0	6049.2	6058.2	6058.2
37.5°	4947.4	4889.4	4853.7	4853.7	4898.3	4929.5	4974.2	5000.9	5050.0	5067.8	5081.2
40°	4278.2	4144.3	4019.5	3925.8	3863.4	3858.9	3858.9	3872.2	3916.9	3974.8	4028.4
42.5°	3680.4	3466.3	3274.5	3100.5	2975.6	2904.2	2873.0	2877.5	2913.2	2966.7	3055.8
45°	3203.1	2935.4	2694.5	2484.8	2315.3	2203.8	2150.3	2145.8	2172.5	2235.0	2333.2
47.5°	2832.8	2547.3	2275.1	2034.2	1851.4	1730.9	1668.5	1650.7	1668.5	1726.4	1842.5
50°	2525.0	2230.6	1949.5	1699.7	1503.4	1378.5	1320.5	1298.2	1320.5	1369.6	1485.5
52.5°	2239.5	1936.1	1672.9	1432.0	1222.3	1115.3	1052.8	1039.4	1052.8	1110.8	1204.5
55°	1909.4	1650.7	1391.9	1150.9	968.1	861.0	811.9	798.6	811.9	865.5	963.6
57.5°	1583.7	1360.6	1133.2	914.5	758.4	664.7	620.1	602.2	633.4	669.1	785.2
60°	1280.3	1101.9	910.0	718.2	588.9	504.1	468.4	463.9	472.9	517.5	597.7
62.5°	1003.8	856.6	704.8	548.7	441.6	406.0	361.3	356.9	365.8	392.5	455.1
65°	722.7	629.1	513.0	401.5	316.8	267.7	249.9	254.3	263.2	281.1	339.0
67.5°	504.1	437.2	356.9	281.1	218.6	196.3	178.5	174.0	178.5	209.7	240.9
70°	339.0	298.9	240.9	214.2	151.7	120.4	124.9	111.6	129.4	129.4	156.1
72.5°	223.0	196.3	160.6	124.9	107.1	84.8	84.8	80.3	89.2	93.7	116.0
75°	116.0	89.2	89.2	62.4	44.6	22.3	40.2	35.7	31.2	35.7	44.6
77.5°	80.3	66.9	62.4	49.1	44.6	35.7	35.7	35.7	35.7	40.2	44.6
80°	49.1	49.1	35.7	31.2	26.7	22.3	26.7	26.7	26.7	26.7	31.2
82.5°	31.2	26.7	26.7	22.3	22.3	17.8	17.8	17.8	17.8	17.8	26.7
85°	26.7	17.8	17.8	13.4	17.8	31.2	13.4	17.8	17.8	17.8	13.4
87.5°	8.9	13.4	13.4	13.4	8.9	4.5	8.9	13.4	13.4	22.3	17.8
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°	8311.1	8311.1	8311.1	8311.1	8311.1	8311.1	8311.1	8311.1	8311.1	8311.1	8311.1
2.5°	8324.5	8329.0	8329.0	8324.5	8324.5	8315.5	8333.3	8320.0	8324.5	8342.3	8329.0
5°	8333.3	8337.8	8337.8	8333.3	8333.3	8333.3	8337.8	8337.8	8333.3	8329.0	8337.8
7.5°	8351.2	8346.8	8346.8	8337.8	8337.8	8329.0	8337.8	8324.5	8333.3	8324.5	8337.8
10°	8329.0	8333.3	8329.0	8324.5	8324.5	8320.0	8320.0	8306.6	8311.1	8297.6	8306.6
12.5°	8315.5	8311.1	8311.1	8302.1	8293.3	8284.3	8279.8	8266.4	8266.4	8235.2	8248.6
15°	8279.8	8284.3	8270.9	8253.1	8244.2	8221.9	8212.9	8195.0	8177.2	8155.0	8159.4
17.5°	8248.6	8235.2	8217.4	8199.5	8163.8	8146.0	8128.1	8101.4	8092.4	8065.7	8056.8
20°	8155.0	8146.0	8123.8	8092.4	8070.2	8030.0	8012.2	7985.4	7963.1	7936.3	7922.9
22.5°	8034.5	8025.5	7998.8	7967.6	7931.9	7914.1	7896.2	7847.1	7824.8	7798.0	7793.6
25°	7882.8	7869.4	7842.7	7807.0	7789.1	7740.1	7722.2	7686.5	7677.6	7650.8	7646.4
27.5°	7650.8	7633.0	7601.8	7557.1	7525.9	7494.7	7476.9	7450.0	7441.2	7414.3	7410.0
30°	7302.9	7280.5	7218.1	7200.3	7146.7	7115.5	7115.5	7079.8	7084.3	7066.5	7066.5
32.5°	6754.2	6718.5	6669.4	6633.7	6598.0	6580.2	6580.2	6566.7	6575.7	6575.7	6584.6
35°	6027.0	5978.0	5951.1	5928.8	5928.8	5946.6	6000.2	6013.6	6040.4	6062.7	6080.6
37.5°	5094.6	5090.2	5121.4	5148.1	5215.1	5290.9	5384.6	5464.9	5540.7	5594.3	5647.8
40°	4086.4	4197.9	4287.1	4412.1	4514.6	4661.9	4831.4	4969.7	5099.0	5192.8	5290.9
42.5°	3189.7	3332.4	3519.9	3702.7	3885.6	4086.4	4309.5	4501.3	4670.8	4800.2	4902.8
45°	2484.8	2681.1	2908.7	3140.6	3377.1	3626.9	3858.9	4055.2	4233.6	4367.5	4470.1
47.5°	2003.0	2217.2	2475.9	2730.2	2997.9	3261.1	3519.9	3689.4	3836.5	3943.6	4037.4
50°	1655.0	1882.6	2154.7	2444.7	2712.3	2975.6	3198.6	3363.7	3484.2	3577.8	3635.8
52.5°	1382.9	1623.8	1913.8	2203.8	2471.4	2712.3	2913.2	3038.0	3136.2	3203.1	3256.6
55°	1142.0	1374.1	1646.2	1918.3	2181.5	2409.0	2574.0	2667.8	2743.5	2783.7	2814.9
57.5°	932.4	1146.5	1396.3	1646.2	1873.7	2061.1	2190.4	2284.1	2319.8	2351.0	2346.5
60°	731.7	932.4	1159.9	1374.1	1570.3	1721.9	1815.7	1869.2	1895.9	1909.4	1900.4
62.5°	575.5	758.4	932.4	1119.7	1262.5	1391.9	1481.1	1481.1	1494.5	1498.9	1512.4
65°	428.2	566.5	718.2	856.6	972.5	1057.3	1106.4	1119.7	1137.6	1133.2	1124.2
67.5°	316.8	419.4	530.8	633.4	713.8	767.3	803.0	834.3	829.8	820.9	816.4
70°	218.6	285.6	383.7	446.1	504.1	557.7	566.5	571.0	575.5	579.9	571.0
72.5°	151.7	200.7	254.3	307.8	343.5	365.8	388.2	392.5	392.5	392.5	388.2
75°	75.9	102.6	151.7	174.0	205.2	214.2	232.0	232.0	245.4	227.5	223.0
77.5°	66.9	80.3	107.1	124.9	138.3	151.7	156.1	169.5	165.0	156.1	160.6
80°	40.2	49.1	66.9	75.9	93.7	98.1	102.6	107.1	102.6	107.1	107.1
82.5°	31.2	35.7	44.6	44.6	58.0	58.0	62.4	62.4	66.9	66.9	66.9
85°	17.8	31.2	26.7	53.5	35.7	35.7	44.6	53.5	44.6	44.6	53.5
87.5°	17.8	17.8	13.4	17.8	17.8	17.8	22.3	26.7	26.7	31.2	26.7
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: P249205

CATALOG NUMBER: LD8B150D010 ER8B150830 8LBDW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	8311.1	8311.1	8311.1	8311.1
2.5°	8324.5	8333.3	8320.0	8315.5
5°	8337.8	8337.8	8329.0	8329.0
7.5°	8337.8	8337.8	8324.5	8315.5
10°	8302.1	8302.1	8288.8	8279.8
12.5°	8235.2	8235.2	8230.7	8217.4
15°	8150.5	8150.5	8132.6	8119.3
17.5°	8034.5	8043.4	8021.1	8021.1
20°	7909.6	7905.1	7887.3	7878.4
22.5°	7780.2	7771.3	7766.8	7740.1
25°	7641.9	7633.0	7619.6	7606.2
27.5°	7405.5	7401.0	7387.6	7369.8
30°	7044.1	7039.6	7021.8	7021.8
32.5°	6575.7	6571.2	6553.4	6557.9
35°	6089.4	6107.3	6098.4	6080.6
37.5°	5683.5	5696.9	5705.8	5696.9
40°	5344.4	5384.6	5389.1	5398.0
42.5°	4983.1	5036.6	5054.5	5063.3
45°	4550.3	4599.4	4639.6	4630.6
47.5°	4108.7	4144.3	4180.0	4153.3
50°	3684.9	3707.2	3720.6	3720.6
52.5°	3283.4	3283.4	3279.0	3283.4
55°	2823.9	2823.9	2806.1	2814.9
57.5°	2342.1	2351.0	2337.6	2315.3
60°	1895.9	1873.7	1864.7	1851.4
62.5°	1476.7	1476.7	1445.4	1485.5
65°	1106.4	1093.0	1079.6	1075.1
67.5°	803.0	798.6	785.2	780.7
70°	566.5	548.7	544.3	535.3
72.5°	379.2	379.2	370.3	370.3
75°	232.0	209.7	205.2	209.7
77.5°	160.6	156.1	156.1	151.7
80°	107.1	102.6	111.6	98.1
82.5°	66.9	71.4	66.9	71.4
85°	44.6	53.5	49.1	49.1
87.5°	26.7	26.7	26.7	26.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)