

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: P249504

Luminaire Tested: **LD8B200D010 ER8B200927 8LBDW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249504
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: LD8B200D010 ER8B200927 8LBDW0B
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15189.8 lumens
Efficiency: N/A
Efficacy: 68.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

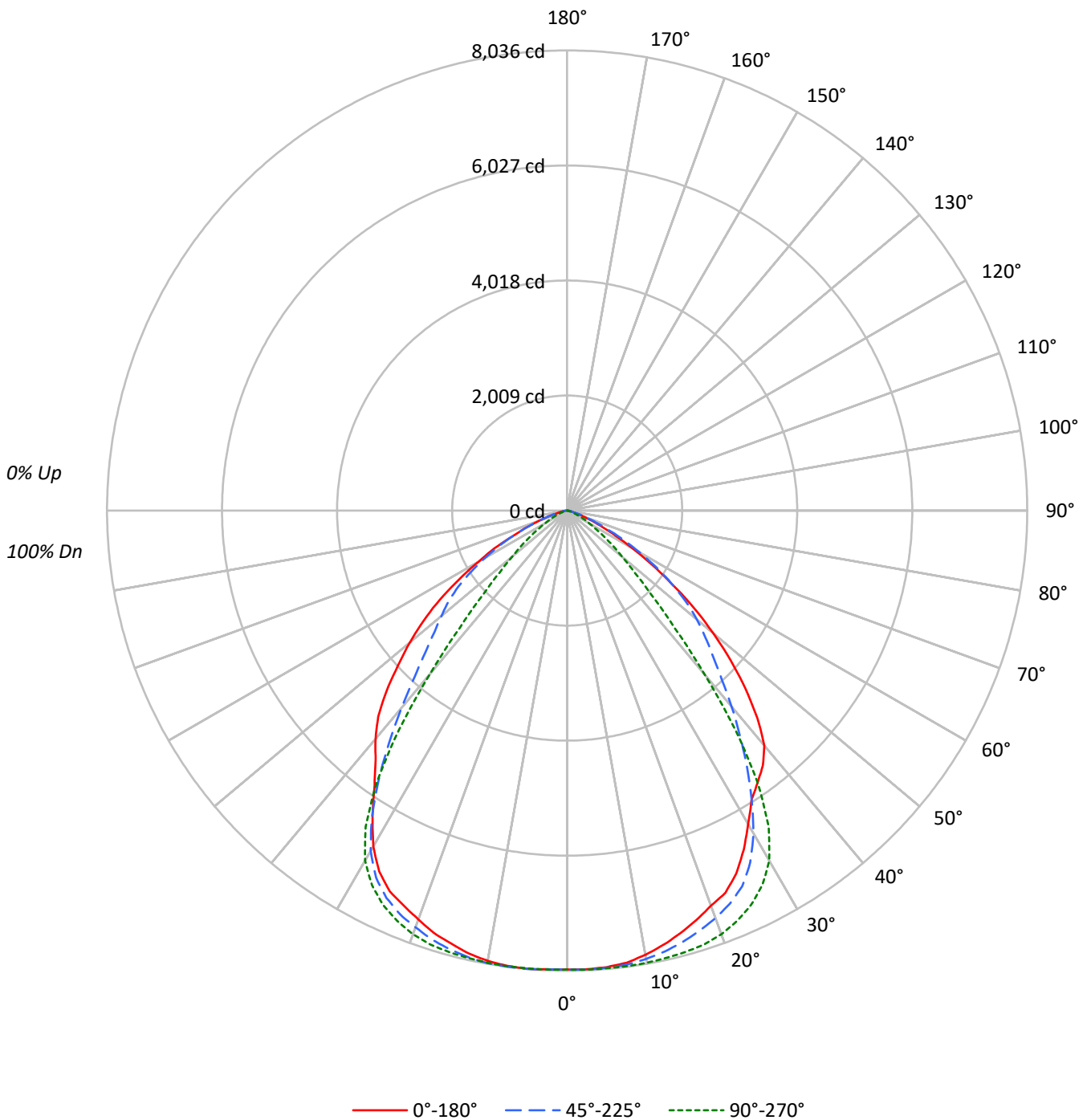
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	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°	764.9	5.0
10°-20°	2221.3	14.6
20°-30°	3371.5	22.2
30°-40°	3541.0	23.3
40°-50°	2654.8	17.5
50°-60°	1703.4	11.2
60°-70°	728.7	4.8
70°-80°	172.2	1.1
80°-90°	32.0	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°	6357.6	41.9
0°-40°	9898.6	65.2
0°-60°	14256.9	93.9
0°-90°	15189.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15189.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8014	8014	8014	8014	8014	
5°	8001	8014	8023	8036	8032	760
15°	7640	7799	7980	7928	7829	2155
25°	6990	7236	7602	7464	7335	3194
35°	5799	5476	5803	5734	5864	3640
45°	4405	3601	2069	3498	4465	3374
55°	2228	2228	770	2323	2714	2021
65°	671	792	245	1020	1037	716
75°	103	120	34	207	202	150
85°	34	22	17	34	47	36
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°	8014.4	8014.4	8014.4	8014.4	8014.4	8014.4	8014.4	8014.4	8014.4	8014.4	8014.4
2.5°	8018.8	8027.3	8023.0	8023.0	8018.8	8023.0	8023.0	8031.7	8031.7	8023.0	8018.8
5°	8001.4	8010.1	8010.1	8001.4	8001.4	8023.0	8010.1	8018.8	8018.8	8014.4	8014.4
7.5°	7962.9	7962.9	7980.0	7967.1	7967.1	7980.0	7975.7	7984.4	7992.9	7997.3	7997.3
10°	7876.7	7885.4	7889.6	7889.6	7894.0	7906.8	7915.5	7932.7	7941.3	7949.9	7954.2
12.5°	7769.2	7782.1	7786.5	7782.1	7795.0	7812.2	7833.8	7855.3	7868.2	7885.4	7898.3
15°	7640.1	7640.1	7648.8	7661.7	7670.4	7696.1	7717.6	7743.4	7777.8	7799.4	7820.9
17.5°	7498.2	7506.8	7519.7	7519.7	7536.9	7579.9	7592.8	7631.6	7670.4	7691.7	7734.8
20°	7343.3	7351.9	7364.8	7373.5	7395.0	7429.4	7455.2	7489.6	7532.7	7571.4	7614.3
22.5°	7222.8	7205.7	7214.2	7222.8	7244.4	7274.6	7304.6	7347.6	7390.7	7429.4	7472.5
25°	6990.5	6994.9	7007.8	7016.3	7042.3	7068.0	7102.5	7154.0	7192.8	7235.8	7283.0
27.5°	6676.5	6680.8	6702.3	6702.3	6723.8	6766.9	6788.4	6831.3	6883.1	6926.1	6982.0
30°	6319.5	6328.0	6328.0	6345.3	6358.2	6379.8	6401.1	6444.2	6470.0	6508.8	6586.2
32.5°	5992.5	6001.1	5996.8	5992.5	5979.6	5975.3	5971.0	5979.6	5988.3	6001.1	6031.2
35°	5799.0	5777.4	5760.2	5730.2	5695.8	5652.7	5614.0	5562.3	5515.0	5476.3	5433.3
37.5°	5614.0	5609.6	5583.8	5540.8	5472.0	5394.6	5304.3	5192.4	5080.5	4960.1	4844.0
40°	5355.9	5343.0	5321.5	5261.2	5183.8	5089.2	4968.7	4831.0	4650.3	4465.3	4276.1
42.5°	4917.0	4921.3	4895.6	4848.2	4775.2	4684.7	4560.0	4409.4	4215.9	3996.4	3751.3
45°	4405.2	4405.2	4396.5	4357.8	4306.2	4233.0	4138.4	4013.7	3824.4	3600.7	3338.2
47.5°	3871.7	3876.0	3863.0	3854.5	3833.0	3785.7	3716.9	3622.2	3488.8	3273.8	3011.3
50°	3329.7	3329.7	3351.2	3346.9	3346.9	3329.7	3299.6	3243.6	3127.5	2955.4	2710.2
52.5°	2787.6	2796.2	2809.2	2826.3	2847.8	2882.2	2847.8	2822.1	2748.8	2615.5	2404.8
55°	2228.4	2237.0	2258.4	2288.6	2314.5	2348.9	2357.4	2357.4	2318.6	2228.4	2069.2
57.5°	1751.0	1737.9	1755.2	1781.0	1815.4	1849.8	1875.6	1905.8	1901.5	1841.2	1712.1
60°	1316.4	1320.8	1333.6	1359.4	1385.2	1415.4	1449.8	1475.6	1488.5	1458.3	1376.6
62.5°	959.3	959.3	976.5	1002.3	1015.2	1058.3	1079.8	1092.7	1105.5	1101.3	1049.6
65°	671.2	679.6	688.3	701.2	714.0	739.9	752.8	778.6	787.3	791.6	752.8
67.5°	473.3	460.4	468.9	477.4	490.4	507.7	533.5	533.5	546.3	546.3	520.5
70°	301.2	301.2	305.4	318.3	326.9	331.2	339.9	348.4	361.3	357.1	357.1
72.5°	202.2	197.9	202.2	206.6	210.8	223.6	223.6	228.0	236.6	241.0	223.6
75°	103.3	107.6	116.1	111.9	124.8	116.1	120.4	133.3	129.0	120.4	120.4
77.5°	86.0	86.0	86.0	81.8	90.3	90.3	86.0	94.6	90.3	90.3	86.0
80°	60.2	64.6	60.2	55.9	60.2	55.9	55.9	55.9	55.9	55.9	51.5
82.5°	47.4	38.7	43.1	38.7	43.1	43.1	38.7	34.4	34.4	38.7	34.4
85°	34.4	25.8	30.2	30.2	25.8	25.8	25.8	25.8	25.8	21.5	21.5
87.5°	21.5	12.9	12.9	12.9	17.2	17.2	17.2	12.9	17.2	17.2	8.7
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°	8014.4	8014.4	8014.4	8014.4	8014.4	8014.4	8014.4	8014.4	8014.4	8014.4	8014.4
2.5°	8027.3	8023.0	8031.7	8027.3	8027.3	8023.0	8027.3	8023.0	8031.7	8014.4	8018.8
5°	8027.3	8018.8	8023.0	8027.3	8031.7	8023.0	8023.0	8023.0	8031.7	8023.0	8027.3
7.5°	8010.1	8005.7	8018.8	8027.3	8023.0	8018.8	8027.3	8023.0	8031.7	8027.3	8035.9
10°	7975.7	7980.0	7988.6	8001.4	8005.7	8010.1	8018.8	8018.8	8031.7	8014.4	8023.0
12.5°	7924.0	7941.3	7962.9	7971.4	7988.6	7988.6	7997.3	8001.4	8010.1	8005.7	8018.8
15°	7859.6	7881.1	7906.8	7928.4	7949.9	7962.9	7975.7	7980.0	7992.9	7980.0	7984.4
17.5°	7782.1	7807.8	7846.6	7872.4	7906.8	7919.8	7937.0	7945.5	7958.5	7949.9	7954.2
20°	7674.5	7704.8	7747.6	7786.5	7807.8	7838.0	7859.6	7872.4	7881.1	7872.4	7876.7
22.5°	7524.0	7567.1	7623.0	7653.0	7696.1	7721.9	7726.2	7756.3	7777.8	7756.3	7765.0
25°	7347.6	7390.7	7433.7	7498.2	7536.9	7567.1	7597.1	7601.5	7623.0	7618.6	7614.3
27.5°	7055.1	7111.0	7184.1	7235.8	7287.4	7334.8	7369.2	7377.6	7399.2	7390.7	7395.0
30°	6654.9	6715.2	6784.1	6865.8	6939.0	6986.2	7029.2	7059.4	7080.9	7068.0	7063.6
32.5°	6087.2	6147.4	6220.6	6302.2	6388.3	6457.0	6508.8	6547.5	6573.3	6564.7	6543.2
35°	5437.7	5454.8	5502.2	5566.7	5639.7	5712.9	5760.2	5803.2	5833.3	5841.9	5841.9
37.5°	4770.8	4714.9	4680.4	4680.4	4723.4	4753.6	4796.6	4822.4	4869.8	4886.9	4899.8
40°	4125.5	3996.4	3876.0	3785.7	3725.4	3721.2	3721.2	3734.0	3777.1	3833.0	3884.6
42.5°	3549.0	3342.5	3157.6	2989.8	2869.4	2800.6	2770.4	2774.8	2809.2	2860.8	2946.7
45°	3088.8	2830.6	2598.3	2396.1	2232.7	2125.1	2073.5	2069.2	2095.0	2155.2	2249.9
47.5°	2731.7	2456.3	2194.0	1961.7	1785.3	1669.2	1608.9	1591.8	1608.9	1664.8	1776.7
50°	2434.8	2151.0	1880.0	1639.0	1449.8	1329.3	1273.4	1251.9	1273.4	1320.8	1432.5
52.5°	2159.5	1867.0	1613.2	1380.9	1178.7	1075.5	1015.2	1002.3	1015.2	1071.1	1161.6
55°	1841.2	1591.8	1342.1	1109.8	933.5	830.2	782.9	770.1	782.9	834.6	929.2
57.5°	1527.2	1312.1	1092.7	881.9	731.4	640.9	597.9	580.7	610.9	645.3	757.1
60°	1234.6	1062.6	877.5	692.7	567.9	486.1	451.7	447.4	456.0	499.0	576.4
62.5°	968.0	826.0	679.6	529.1	425.9	391.5	348.4	344.2	352.7	378.6	438.9
65°	696.9	606.6	494.8	387.1	305.4	258.1	241.0	245.2	253.8	271.0	326.9
67.5°	486.1	421.5	344.2	271.0	210.8	189.2	172.1	167.7	172.1	202.2	232.3
70°	326.9	288.2	232.3	206.6	146.4	116.1	120.4	107.6	124.8	124.8	150.5
72.5°	215.1	189.2	154.8	120.4	103.3	81.8	81.8	77.5	86.0	90.3	111.9
75°	111.9	86.0	86.0	60.2	43.1	21.5	38.7	34.4	30.2	34.4	43.1
77.5°	77.5	64.6	60.2	47.4	43.1	34.4	34.4	34.4	34.4	38.7	43.1
80°	47.4	47.4	34.4	30.2	25.8	21.5	25.8	25.8	25.8	25.8	30.2
82.5°	30.2	25.8	25.8	21.5	21.5	17.2	17.2	17.2	17.2	17.2	25.8
85°	25.8	17.2	17.2	12.9	17.2	30.2	12.9	17.2	17.2	17.2	12.9
87.5°	8.7	12.9	12.9	12.9	8.7	4.3	8.7	12.9	12.9	21.5	17.2
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°	8014.4	8014.4	8014.4	8014.4	8014.4	8014.4	8014.4	8014.4	8014.4	8014.4	8014.4
2.5°	8027.3	8031.7	8031.7	8027.3	8027.3	8018.8	8035.9	8023.0	8027.3	8044.5	8031.7
5°	8035.9	8040.2	8040.2	8035.9	8035.9	8035.9	8040.2	8040.2	8035.9	8031.7	8040.2
7.5°	8053.2	8048.8	8048.8	8040.2	8040.2	8031.7	8040.2	8027.3	8035.9	8027.3	8040.2
10°	8031.7	8035.9	8031.7	8027.3	8027.3	8023.0	8023.0	8010.1	8014.4	8001.4	8010.1
12.5°	8018.8	8014.4	8014.4	8005.7	7997.3	7988.6	7984.4	7971.4	7971.4	7941.3	7954.2
15°	7984.4	7988.6	7975.7	7958.5	7949.9	7928.4	7919.8	7902.6	7885.4	7863.9	7868.2
17.5°	7954.2	7941.3	7924.0	7906.8	7872.4	7855.3	7838.0	7812.2	7803.6	7777.8	7769.2
20°	7863.9	7855.3	7833.8	7803.6	7782.1	7743.4	7726.2	7700.4	7678.8	7653.0	7640.1
22.5°	7747.6	7739.1	7713.2	7683.2	7648.8	7631.6	7614.3	7567.1	7545.5	7519.7	7515.3
25°	7601.5	7588.6	7562.7	7528.3	7511.1	7463.8	7446.5	7412.1	7403.6	7377.6	7373.5
27.5°	7377.6	7360.5	7330.4	7287.4	7257.3	7227.2	7210.0	7184.1	7175.6	7149.7	7145.4
30°	7042.3	7020.7	6960.5	6943.3	6891.6	6861.5	6861.5	6827.1	6831.3	6814.2	6814.2
32.5°	6513.1	6478.7	6431.3	6396.9	6362.4	6345.3	6345.3	6332.4	6341.0	6341.0	6349.6
35°	5811.9	5764.6	5738.7	5717.2	5717.2	5734.3	5786.1	5799.0	5824.8	5846.3	5863.5
37.5°	4912.8	4908.5	4938.6	4964.4	5028.9	5102.1	5192.4	5269.8	5343.0	5394.6	5446.1
40°	3940.5	4048.1	4134.2	4254.6	4353.4	4495.5	4659.0	4792.3	4917.0	5007.5	5102.1
42.5°	3075.9	3213.5	3394.2	3570.5	3746.9	3940.5	4155.6	4340.6	4504.0	4628.8	4727.8
45°	2396.1	2585.4	2804.8	3028.5	3256.5	3497.5	3721.2	3910.4	4082.5	4211.6	4310.6
47.5°	1931.5	2138.1	2387.5	2632.7	2890.9	3144.6	3394.2	3557.7	3699.6	3802.8	3893.3
50°	1595.9	1815.4	2077.9	2357.4	2615.5	2869.4	3084.4	3243.6	3359.8	3450.2	3506.1
52.5°	1333.6	1565.9	1845.6	2125.1	2383.2	2615.5	2809.2	2929.6	3024.2	3088.8	3140.3
55°	1101.3	1325.0	1587.4	1849.8	2103.6	2323.0	2482.2	2572.5	2645.7	2684.4	2714.4
57.5°	899.1	1105.5	1346.5	1587.4	1806.8	1987.5	2112.3	2202.5	2237.0	2267.1	2262.8
60°	705.6	899.1	1118.5	1325.0	1514.2	1660.5	1751.0	1802.5	1828.2	1841.2	1832.6
62.5°	555.0	731.4	899.1	1079.8	1217.5	1342.1	1428.3	1428.3	1441.1	1445.4	1458.3
65°	413.0	546.3	692.7	826.0	937.8	1019.6	1067.0	1079.8	1097.0	1092.7	1084.0
67.5°	305.4	404.4	511.9	610.9	688.3	739.9	774.3	804.5	800.2	791.6	787.3
70°	210.8	275.4	370.0	430.2	486.1	537.8	546.3	550.6	555.0	559.2	550.6
72.5°	146.4	193.6	245.2	296.9	331.2	352.7	374.3	378.6	378.6	378.6	374.3
75°	73.1	99.0	146.4	167.7	197.9	206.6	223.6	223.6	236.6	219.4	215.1
77.5°	64.6	77.5	103.3	120.4	133.3	146.4	150.5	163.5	159.2	150.5	154.8
80°	38.7	47.4	64.6	73.1	90.3	94.6	99.0	103.3	99.0	103.3	103.3
82.5°	30.2	34.4	43.1	43.1	55.9	55.9	60.2	60.2	64.6	64.6	64.6
85°	17.2	30.2	25.8	51.5	34.4	34.4	43.1	51.5	43.1	43.1	51.5
87.5°	17.2	17.2	12.9	17.2	17.2	17.2	21.5	25.8	25.8	30.2	25.8
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: P249504

CATALOG NUMBER: LD8B200D010 ER8B200927 8LBDW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	8014.4	8014.4	8014.4	8014.4
2.5°	8027.3	8035.9	8023.0	8018.8
5°	8040.2	8040.2	8031.7	8031.7
7.5°	8040.2	8040.2	8027.3	8018.8
10°	8005.7	8005.7	7992.9	7984.4
12.5°	7941.3	7941.3	7937.0	7924.0
15°	7859.6	7859.6	7842.3	7829.4
17.5°	7747.6	7756.3	7734.8	7734.8
20°	7627.3	7623.0	7605.8	7597.1
22.5°	7502.5	7493.8	7489.6	7463.8
25°	7369.2	7360.5	7347.6	7334.8
27.5°	7141.2	7136.9	7124.0	7106.7
30°	6792.6	6788.4	6771.2	6771.2
32.5°	6341.0	6336.7	6319.5	6323.8
35°	5872.0	5889.3	5880.7	5863.5
37.5°	5480.6	5493.5	5502.2	5493.5
40°	5153.6	5192.4	5196.7	5205.4
42.5°	4805.2	4856.8	4874.1	4882.6
45°	4387.8	4435.2	4474.0	4465.3
47.5°	3962.0	3996.4	4030.9	4005.0
50°	3553.4	3574.8	3587.8	3587.8
52.5°	3166.2	3166.2	3161.9	3166.2
55°	2723.1	2723.1	2706.0	2714.4
57.5°	2258.4	2267.1	2254.2	2232.7
60°	1828.2	1806.8	1798.2	1785.3
62.5°	1423.9	1423.9	1393.9	1432.5
65°	1067.0	1054.0	1041.1	1036.7
67.5°	774.3	770.1	757.1	752.8
70°	546.3	529.1	524.8	516.2
72.5°	365.6	365.6	357.1	357.1
75°	223.6	202.2	197.9	202.2
77.5°	154.8	150.5	150.5	146.4
80°	103.3	99.0	107.6	94.6
82.5°	64.6	68.9	64.6	68.9
85°	43.1	51.5	47.4	47.4
87.5°	25.8	25.8	25.8	25.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)