

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: P249396

Luminaire Tested: **LD8B200D010 ER8B200927 8LBDW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249396
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 8LBDW0GPH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16779.4 lumens
Efficiency: N/A
Efficacy: 75.1 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

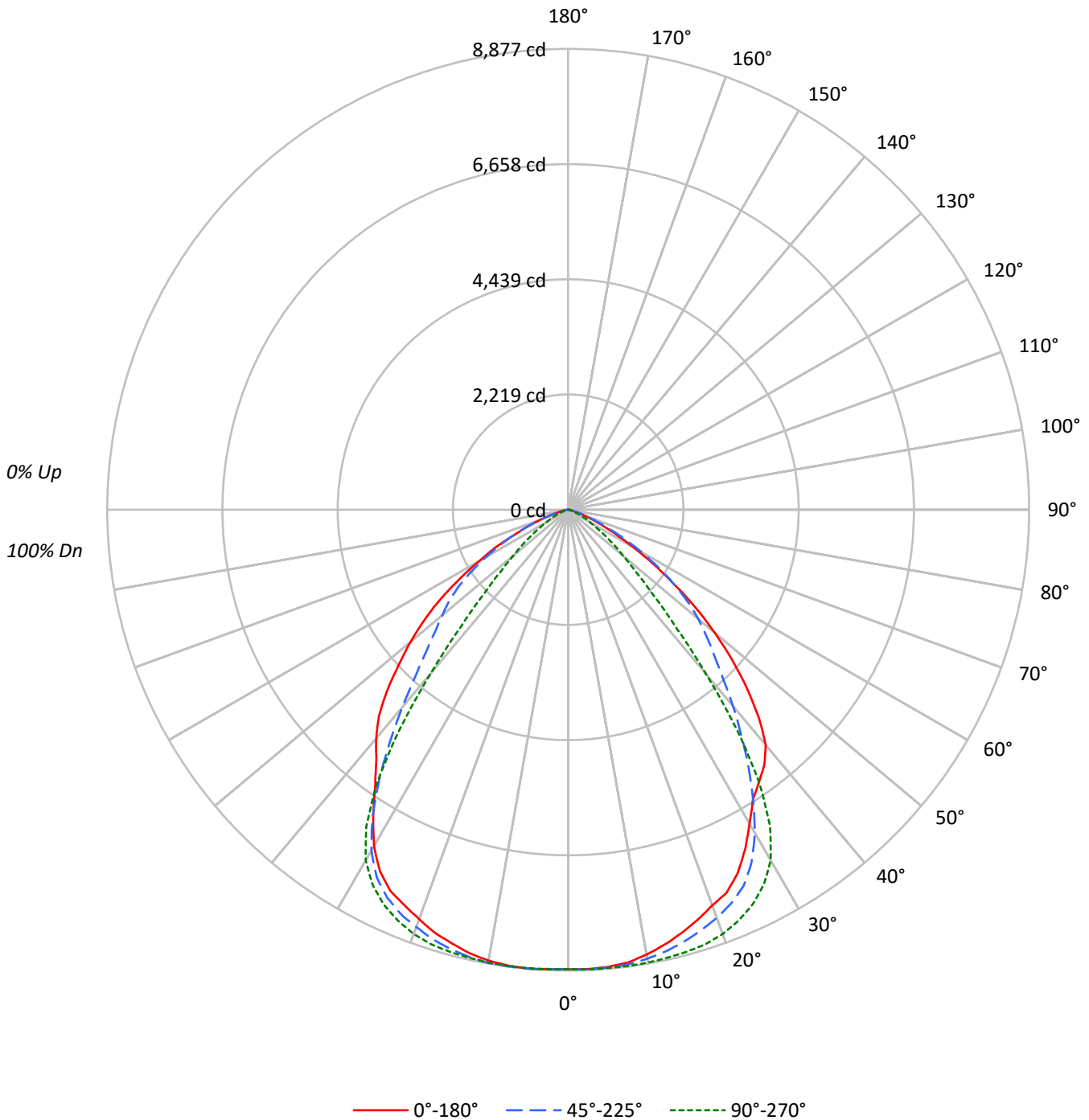
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P249396

CATALOG NUMBER: LD8B200D010 ER8B200927 8LBDW0GPH

Luminous Intensity Polar Plot





TEST NUMBER: P249396

CATALOG NUMBER: LD8B200D010 ER8B200927 8LBDW0GPH

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°			



TEST NUMBER: P249396

CATALOG NUMBER: LD8B200D010 ER8B200927 8LBDW0GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	844.9	5.0
10°-20°	2453.7	14.6
20°-30°	3724.3	22.2
30°-40°	3911.6	23.3
40°-50°	2932.7	17.5
50°-60°	1881.7	11.2
60°-70°	804.9	4.8
70°-80°	190.2	1.1
80°-90°	35.4	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°	7022.9	41.9
0°-40°	10934.5	65.2
0°-60°	15748.9	93.9
0°-90°	16779.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16779.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8853	8853	8853	8853	8853	
5°	8839	8853	8863	8877	8872	840
15°	8440	8616	8815	8758	8649	2380
25°	7722	7993	8397	8245	8102	3528
35°	6406	6049	6410	6334	6477	4020
45°	4866	3977	2286	3864	4933	3727
55°	2462	2462	851	2566	2999	2233
65°	741	874	271	1126	1145	791
75°	114	133	38	228	223	166
85°	38	24	19	38	52	40
90°	0	0	0	0	0	



TEST NUMBER: P249396

CATALOG NUMBER: LD8B200D010 ER8B200927 8LBDW0GPH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	8853.1	8853.1	8853.1	8853.1	8853.1	8853.1	8853.1	8853.1	8853.1	8853.1	8853.1
2.5°	8857.9	8867.5	8862.6	8862.6	8857.9	8862.6	8862.6	8872.2	8872.2	8862.6	8857.9
5°	8838.8	8848.4	8848.4	8838.8	8838.8	8862.6	8848.4	8857.9	8857.9	8853.1	8853.1
7.5°	8796.2	8796.2	8815.2	8800.9	8800.9	8815.2	8810.3	8819.9	8829.4	8834.2	8834.2
10°	8701.1	8710.5	8715.4	8715.4	8720.1	8734.3	8743.8	8762.8	8772.3	8781.9	8786.6
12.5°	8582.3	8596.5	8601.3	8596.5	8610.9	8629.8	8653.6	8677.4	8691.6	8710.5	8724.8
15°	8439.6	8439.6	8449.2	8463.5	8473.1	8501.5	8525.2	8553.7	8591.7	8615.6	8639.3
17.5°	8282.9	8292.5	8306.7	8306.7	8325.7	8373.2	8387.4	8430.2	8473.1	8496.8	8544.3
20°	8111.8	8121.3	8135.6	8145.1	8168.8	8206.9	8235.3	8273.4	8320.9	8363.7	8411.2
22.5°	7978.7	7959.8	7969.2	7978.7	8002.6	8035.9	8069.1	8116.5	8164.1	8206.9	8254.5
25°	7722.1	7726.8	7741.1	7750.6	7779.2	7807.7	7845.8	7902.7	7945.4	7993.0	8045.2
27.5°	7375.3	7380.0	7403.7	7403.7	7427.5	7475.1	7498.8	7546.3	7603.4	7650.8	7712.7
30°	6980.8	6990.3	6990.3	7009.3	7023.5	7047.3	7071.1	7118.7	7147.1	7189.9	7275.5
32.5°	6619.7	6629.2	6624.3	6619.7	6605.4	6600.6	6595.9	6605.4	6614.9	6629.2	6662.4
35°	6405.9	6382.0	6363.1	6329.8	6291.8	6244.2	6201.4	6144.5	6092.2	6049.3	6001.9
37.5°	6201.4	6196.7	6168.2	6120.7	6044.6	5959.1	5859.3	5735.8	5612.2	5479.2	5351.0
40°	5916.4	5902.1	5878.3	5811.9	5726.2	5621.7	5488.7	5336.6	5137.0	4932.7	4723.5
42.5°	5431.6	5436.3	5407.9	5355.6	5274.9	5175.0	5037.2	4870.9	4657.0	4414.6	4143.8
45°	4866.2	4866.2	4856.6	4813.9	4756.8	4676.1	4571.6	4433.7	4224.6	3977.4	3687.5
47.5°	4276.9	4281.6	4267.3	4257.9	4234.0	4181.8	4105.8	4001.3	3853.9	3616.3	3326.4
50°	3678.2	3678.2	3701.9	3697.1	3697.1	3678.2	3644.9	3583.0	3454.8	3264.6	2993.8
52.5°	3079.4	3088.9	3103.2	3122.1	3145.8	3183.9	3145.8	3117.4	3036.6	2889.2	2656.5
55°	2461.6	2471.1	2494.8	2528.1	2556.7	2594.7	2604.2	2604.2	2561.3	2461.6	2285.8
57.5°	1934.1	1919.8	1938.9	1967.4	2005.4	2043.4	2071.9	2105.2	2100.4	2033.9	1891.4
60°	1454.2	1458.9	1473.1	1501.6	1530.2	1563.4	1601.4	1629.9	1644.3	1611.0	1520.7
62.5°	1059.8	1059.8	1078.6	1107.2	1121.5	1169.0	1192.7	1207.0	1221.3	1216.5	1159.5
65°	741.4	750.8	760.3	774.7	788.8	817.3	831.6	860.1	869.6	874.4	831.6
67.5°	522.8	508.5	518.1	527.4	541.7	560.8	589.3	589.3	603.4	603.4	575.0
70°	332.7	332.7	337.4	351.7	361.1	366.0	375.4	384.9	399.2	394.4	394.4
72.5°	223.3	218.6	223.3	228.2	232.9	247.0	247.0	251.9	261.3	266.2	247.0
75°	114.1	118.8	128.2	123.6	137.8	128.2	133.0	147.4	142.5	133.0	133.0
77.5°	95.0	95.0	95.0	90.3	99.8	99.8	95.0	104.5	99.8	99.8	95.0
80°	66.5	71.3	66.5	61.8	66.5	61.8	61.8	61.8	61.8	61.8	56.9
82.5°	52.3	42.8	47.6	42.8	47.6	47.6	42.8	38.0	38.0	42.8	38.0
85°	38.0	28.5	33.3	33.3	28.5	28.5	28.5	28.5	28.5	23.7	23.7
87.5°	23.7	14.3	14.3	14.3	18.9	18.9	18.9	14.3	18.9	18.9	9.6
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: P249396

CATALOG NUMBER: LD8B200D010 ER8B200927 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	8853.1	8853.1	8853.1	8853.1	8853.1	8853.1	8853.1	8853.1	8853.1	8853.1	8853.1
2.5°	8867.5	8862.6	8872.2	8867.5	8867.5	8862.6	8867.5	8862.6	8872.2	8853.1	8857.9
5°	8867.5	8857.9	8862.6	8867.5	8872.2	8862.6	8862.6	8862.6	8872.2	8862.6	8867.5
7.5°	8848.4	8843.6	8857.9	8867.5	8862.6	8857.9	8867.5	8862.6	8872.2	8867.5	8876.8
10°	8810.3	8815.2	8824.6	8838.8	8843.6	8848.4	8857.9	8857.9	8872.2	8853.1	8862.6
12.5°	8753.4	8772.3	8796.2	8805.6	8824.6	8824.6	8834.2	8838.8	8848.4	8843.6	8857.9
15°	8682.1	8705.8	8734.3	8758.1	8781.9	8796.2	8810.3	8815.2	8829.4	8815.2	8819.9
17.5°	8596.5	8625.0	8667.8	8696.2	8734.3	8748.6	8767.6	8777.1	8791.4	8781.9	8786.6
20°	8477.7	8511.1	8558.4	8601.3	8625.0	8658.2	8682.1	8696.2	8705.8	8696.2	8701.1
22.5°	8311.4	8359.0	8420.7	8453.9	8501.5	8530.0	8534.8	8568.0	8591.7	8568.0	8577.6
25°	8116.5	8164.1	8211.6	8282.9	8325.7	8359.0	8392.2	8397.0	8420.7	8415.9	8411.2
27.5°	7793.4	7855.2	7936.0	7993.0	8050.0	8102.4	8140.4	8149.7	8173.6	8164.1	8168.8
30°	7351.4	7418.0	7494.1	7584.3	7665.2	7717.4	7764.9	7798.2	7821.9	7807.7	7802.9
32.5°	6724.2	6790.7	6871.5	6961.8	7056.9	7132.8	7189.9	7232.7	7261.2	7251.6	7227.9
35°	6006.7	6025.6	6077.9	6149.2	6229.9	6310.8	6363.1	6410.5	6443.8	6453.3	6453.3
37.5°	5270.1	5208.3	5170.3	5170.3	5217.8	5251.0	5298.5	5327.1	5379.4	5398.3	5412.6
40°	4557.2	4414.6	4281.6	4181.8	4115.4	4110.6	4110.6	4124.8	4172.3	4234.0	4291.2
42.5°	3920.5	3692.4	3488.1	3302.7	3169.7	3093.6	3060.3	3065.2	3103.2	3160.1	3255.2
45°	3412.0	3126.9	2870.3	2646.9	2466.3	2347.5	2290.5	2285.8	2314.2	2380.7	2485.4
47.5°	3017.6	2713.4	2423.6	2166.9	1972.1	1843.8	1777.3	1758.4	1777.3	1839.0	1962.7
50°	2689.6	2376.1	2076.6	1810.6	1601.4	1468.5	1406.6	1382.9	1406.6	1458.9	1582.4
52.5°	2385.6	2062.4	1782.0	1525.4	1302.1	1188.0	1121.5	1107.2	1121.5	1183.3	1283.1
55°	2033.9	1758.4	1482.6	1226.0	1031.3	917.2	864.9	850.7	864.9	921.9	1026.4
57.5°	1687.0	1449.3	1207.0	974.1	807.9	708.0	660.6	641.5	674.8	712.8	836.3
60°	1363.8	1173.8	969.4	765.1	627.3	537.0	498.9	494.2	503.7	551.2	636.8
62.5°	1069.3	912.4	750.8	584.6	470.5	432.4	384.9	380.2	389.6	418.2	484.8
65°	769.8	670.1	546.5	427.6	337.4	285.1	266.2	270.9	280.3	299.4	361.1
67.5°	537.0	465.6	380.2	299.4	232.9	209.0	190.1	185.3	190.1	223.3	256.6
70°	361.1	318.4	256.6	228.2	161.7	128.2	133.0	118.8	137.8	137.8	166.3
72.5°	237.6	209.0	171.0	133.0	114.1	90.3	90.3	85.6	95.0	99.8	123.6
75°	123.6	95.0	95.0	66.5	47.6	23.7	42.8	38.0	33.3	38.0	47.6
77.5°	85.6	71.3	66.5	52.3	47.6	38.0	38.0	38.0	38.0	42.8	47.6
80°	52.3	52.3	38.0	33.3	28.5	23.7	28.5	28.5	28.5	28.5	33.3
82.5°	33.3	28.5	28.5	23.7	23.7	18.9	18.9	18.9	18.9	18.9	28.5
85°	28.5	18.9	18.9	14.3	18.9	33.3	14.3	18.9	18.9	18.9	14.3
87.5°	9.6	14.3	14.3	14.3	9.6	4.7	9.6	14.3	14.3	23.7	18.9
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: P249396

CATALOG NUMBER: LD8B200D010 ER8B200927 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	8853.1	8853.1	8853.1	8853.1	8853.1	8853.1	8853.1	8853.1	8853.1	8853.1	8853.1
2.5°	8867.5	8872.2	8872.2	8867.5	8867.5	8857.9	8876.8	8862.6	8867.5	8886.4	8872.2
5°	8876.8	8881.6	8881.6	8876.8	8876.8	8876.8	8881.6	8881.6	8876.8	8872.2	8881.6
7.5°	8895.9	8891.1	8891.1	8881.6	8881.6	8872.2	8881.6	8867.5	8876.8	8867.5	8881.6
10°	8872.2	8876.8	8872.2	8867.5	8867.5	8862.6	8862.6	8848.4	8853.1	8838.8	8848.4
12.5°	8857.9	8853.1	8853.1	8843.6	8834.2	8824.6	8819.9	8805.6	8805.6	8772.3	8786.6
15°	8819.9	8824.6	8810.3	8791.4	8781.9	8758.1	8748.6	8729.6	8710.5	8686.8	8691.6
17.5°	8786.6	8772.3	8753.4	8734.3	8696.2	8677.4	8658.2	8629.8	8620.2	8591.7	8582.3
20°	8686.8	8677.4	8653.6	8620.2	8596.5	8553.7	8534.8	8506.2	8482.4	8453.9	8439.6
22.5°	8558.4	8549.0	8520.4	8487.2	8449.2	8430.2	8411.2	8359.0	8335.1	8306.7	8301.8
25°	8397.0	8382.7	8354.1	8316.1	8297.1	8244.9	8225.8	8187.8	8178.4	8149.7	8145.1
27.5°	8149.7	8130.8	8097.5	8050.0	8016.8	7983.4	7964.6	7936.0	7926.5	7898.0	7893.2
30°	7779.2	7755.4	7688.8	7669.9	7612.8	7579.6	7579.6	7541.6	7546.3	7527.4	7527.4
32.5°	7194.7	7156.7	7104.4	7066.4	7028.3	7009.3	7009.3	6995.0	7004.6	7004.6	7014.2
35°	6420.0	6367.8	6339.3	6315.5	6315.5	6334.4	6391.6	6405.9	6434.3	6458.1	6477.2
37.5°	5426.8	5422.2	5455.5	5483.9	5555.2	5636.0	5735.8	5821.3	5902.1	5959.1	6016.2
40°	4352.8	4471.8	4566.7	4699.9	4809.0	4965.9	5146.5	5293.8	5431.6	5531.5	5636.0
42.5°	3397.7	3549.8	3749.4	3944.2	4139.1	4352.8	4590.6	4794.9	4975.4	5113.2	5222.5
45°	2646.9	2855.9	3098.4	3345.5	3597.3	3863.5	4110.6	4319.7	4509.8	4652.3	4761.6
47.5°	2133.7	2361.8	2637.3	2908.2	3193.4	3473.8	3749.4	3930.0	4086.8	4200.9	4300.7
50°	1763.0	2005.4	2295.3	2604.2	2889.2	3169.7	3407.3	3583.0	3711.4	3811.2	3872.9
52.5°	1473.1	1729.7	2038.6	2347.5	2632.6	2889.2	3103.2	3236.2	3340.7	3412.0	3468.9
55°	1216.5	1463.6	1753.5	2043.4	2323.8	2566.1	2741.8	2841.8	2922.5	2965.3	2998.6
57.5°	993.3	1221.3	1487.4	1753.5	1995.9	2195.5	2333.2	2433.0	2471.1	2504.4	2499.6
60°	779.4	993.3	1235.6	1463.6	1672.8	1834.2	1934.1	1991.1	2019.6	2033.9	2024.3
62.5°	613.0	807.9	993.3	1192.7	1344.8	1482.6	1577.7	1577.7	1592.0	1596.7	1611.0
65°	456.2	603.4	765.1	912.4	1035.9	1126.2	1178.6	1192.7	1211.9	1207.0	1197.6
67.5°	337.4	446.7	565.4	674.8	760.3	817.3	855.3	888.8	883.9	874.4	869.6
70°	232.9	304.2	408.7	475.2	537.0	594.0	603.4	608.3	613.0	617.7	608.3
72.5°	161.7	213.9	270.9	327.9	366.0	389.6	413.4	418.2	418.2	418.2	413.4
75°	80.8	109.4	161.7	185.3	218.6	228.2	247.0	247.0	261.3	242.3	237.6
77.5°	71.3	85.6	114.1	133.0	147.4	161.7	166.3	180.6	175.8	166.3	171.0
80°	42.8	52.3	71.3	80.8	99.8	104.5	109.4	114.1	109.4	114.1	114.1
82.5°	33.3	38.0	47.6	47.6	61.8	61.8	66.5	66.5	71.3	71.3	71.3
85°	18.9	33.3	28.5	56.9	38.0	38.0	47.6	56.9	47.6	47.6	56.9
87.5°	18.9	18.9	14.3	18.9	18.9	18.9	23.7	28.5	28.5	33.3	28.5
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: P249396

CATALOG NUMBER: LD8B200D010 ER8B200927 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	8853.1	8853.1	8853.1	8853.1
2.5°	8867.5	8876.8	8862.6	8857.9
5°	8881.6	8881.6	8872.2	8872.2
7.5°	8881.6	8881.6	8867.5	8857.9
10°	8843.6	8843.6	8829.4	8819.9
12.5°	8772.3	8772.3	8767.6	8753.4
15°	8682.1	8682.1	8663.1	8648.8
17.5°	8558.4	8568.0	8544.3	8544.3
20°	8425.5	8420.7	8401.7	8392.2
22.5°	8287.6	8278.1	8273.4	8244.9
25°	8140.4	8130.8	8116.5	8102.4
27.5°	7888.5	7883.8	7869.5	7850.5
30°	7503.5	7498.8	7479.8	7479.8
32.5°	7004.6	6999.9	6980.8	6985.6
35°	6486.5	6505.7	6496.1	6477.2
37.5°	6054.2	6068.5	6077.9	6068.5
40°	5693.0	5735.8	5740.5	5750.1
42.5°	5308.1	5365.1	5384.1	5393.6
45°	4847.1	4899.4	4942.2	4932.7
47.5°	4376.6	4414.6	4452.6	4424.2
50°	3925.2	3949.0	3963.3	3963.3
52.5°	3497.6	3497.6	3492.8	3497.6
55°	3008.0	3008.0	2989.1	2998.6
57.5°	2494.8	2504.4	2490.1	2466.3
60°	2019.6	1995.9	1986.3	1972.1
62.5°	1573.0	1573.0	1539.7	1582.4
65°	1178.6	1164.3	1150.0	1145.2
67.5°	855.3	850.7	836.3	831.6
70°	603.4	584.6	579.7	570.3
72.5°	404.0	404.0	394.4	394.4
75°	247.0	223.3	218.6	223.3
77.5°	171.0	166.3	166.3	161.7
80°	114.1	109.4	118.8	104.5
82.5°	71.3	76.0	71.3	76.0
85°	47.6	56.9	52.3	52.3
87.5°	28.5	28.5	28.5	28.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)