

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 ER8B2009727 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 ER8B2009727 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: 14915.0 lumens
Efficiency: N/A
Efficacy: 66.8 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

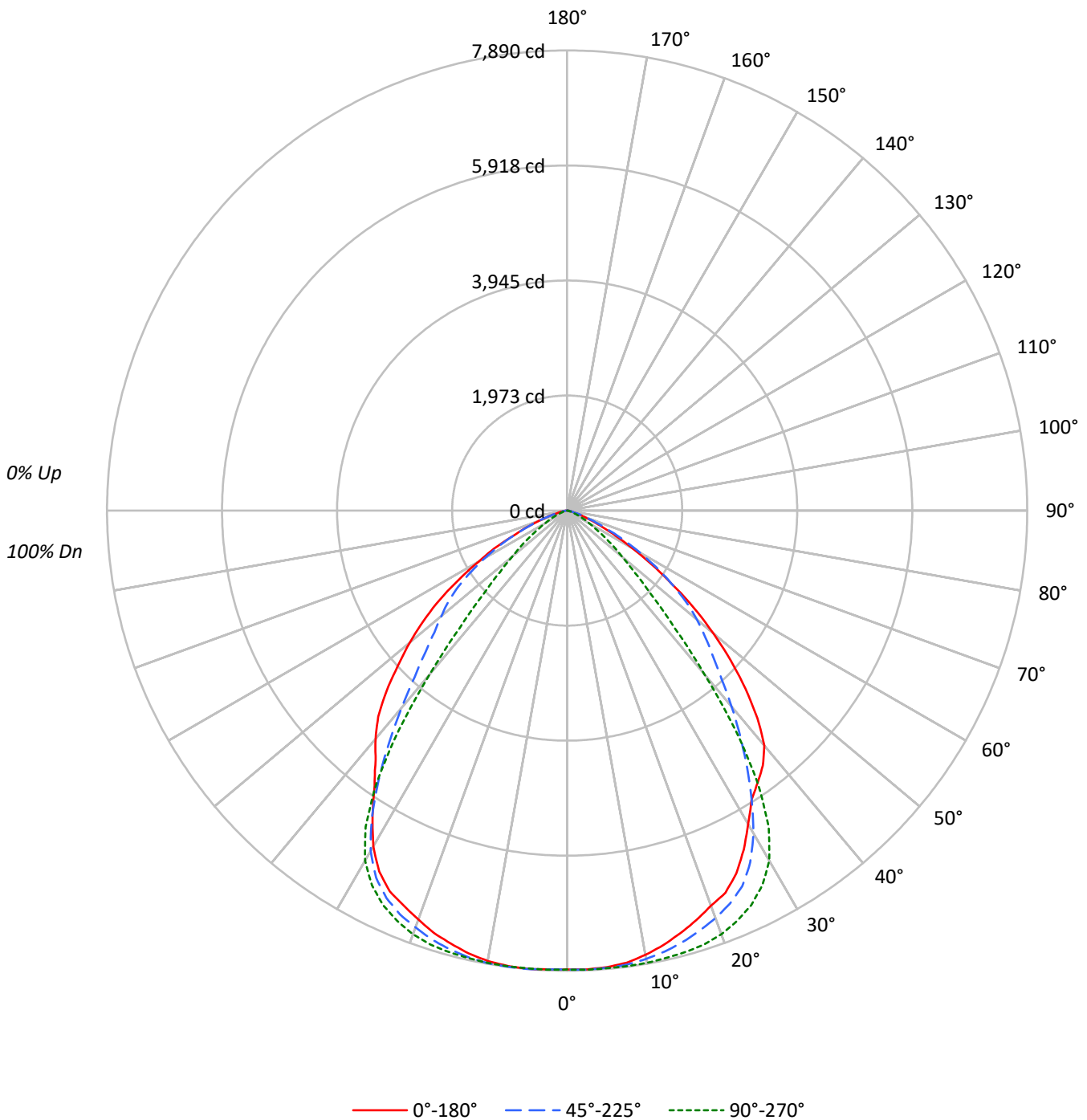
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	751.0	5.0
10°-20°	2181.1	14.6
20°-30°	3310.5	22.2
30°-40°	3477.0	23.3
40°-50°	2606.8	17.5
50°-60°	1672.6	11.2
60°-70°	715.5	4.8
70°-80°	169.0	1.1
80°-90°	31.4	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°	6242.6	41.9
0°-40°	9719.6	65.2
0°-60°	13999.0	93.9
0°-90°	14915.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14915.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7869	7869	7869	7869	7869	
5°	7857	7869	7878	7890	7886	746
15°	7502	7658	7836	7785	7688	2116
25°	6864	7105	7464	7329	7202	3136
35°	5694	5377	5698	5631	5758	3574
45°	4326	3536	2032	3434	4385	3313
55°	2188	2188	756	2281	2665	1985
65°	659	777	241	1001	1018	703
75°	101	118	34	203	198	148
85°	34	21	17	34	46	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°	7869.4	7869.4	7869.4	7869.4	7869.4	7869.4	7869.4	7869.4	7869.4	7869.4	7869.4
2.5°	7873.7	7882.2	7877.9	7877.9	7873.7	7877.9	7877.9	7886.4	7886.4	7877.9	7873.7
5°	7856.7	7865.2	7865.2	7856.7	7856.7	7877.9	7865.2	7873.7	7873.7	7869.4	7869.4
7.5°	7818.8	7818.8	7835.7	7823.0	7823.0	7835.7	7831.4	7839.9	7848.4	7852.6	7852.6
10°	7734.3	7742.7	7747.0	7747.0	7751.2	7763.8	7772.3	7789.2	7797.6	7806.1	7810.3
12.5°	7628.7	7641.3	7645.6	7641.3	7654.1	7670.9	7692.1	7713.2	7725.9	7742.7	7755.4
15°	7501.9	7501.9	7510.4	7523.1	7531.6	7556.9	7578.0	7603.3	7637.1	7658.3	7679.4
17.5°	7362.6	7371.1	7383.7	7383.7	7400.6	7442.8	7455.5	7493.5	7531.6	7552.7	7594.9
20°	7210.5	7218.9	7231.6	7240.1	7261.2	7295.0	7320.3	7354.1	7396.4	7434.4	7476.6
22.5°	7092.2	7075.4	7083.7	7092.2	7113.4	7143.0	7172.5	7214.7	7257.0	7295.0	7337.3
25°	6864.1	6868.3	6881.0	6889.4	6914.8	6940.2	6974.0	7024.6	7062.6	7104.9	7151.3
27.5°	6555.8	6560.0	6581.1	6581.1	6602.2	6644.5	6665.6	6707.8	6758.6	6800.7	6855.7
30°	6205.2	6213.6	6213.6	6230.5	6243.1	6264.3	6285.4	6327.7	6353.0	6391.0	6467.1
32.5°	5884.2	5892.6	5888.3	5884.2	5871.5	5867.2	5863.0	5871.5	5879.9	5892.6	5922.1
35°	5694.1	5672.9	5656.1	5626.5	5592.7	5550.4	5512.4	5461.8	5415.3	5377.2	5335.0
37.5°	5512.4	5508.2	5482.8	5440.6	5373.0	5297.0	5208.3	5098.5	4988.6	4870.4	4756.4
40°	5259.0	5246.3	5225.2	5166.1	5090.0	4997.1	4878.8	4743.6	4566.2	4384.6	4198.7
42.5°	4828.1	4832.3	4807.0	4760.5	4688.8	4600.0	4477.5	4329.7	4139.6	3924.1	3683.4
45°	4325.5	4325.5	4317.0	4279.0	4228.3	4156.5	4063.6	3941.1	3755.2	3535.5	3277.8
47.5°	3801.7	3805.9	3793.2	3784.8	3763.6	3717.2	3649.6	3556.7	3425.7	3214.5	2956.8
50°	3269.5	3269.5	3290.6	3286.3	3286.3	3269.5	3239.9	3184.9	3070.9	2901.9	2661.2
52.5°	2737.2	2745.7	2758.4	2775.2	2796.3	2830.1	2796.3	2771.0	2699.2	2568.2	2361.3
55°	2188.1	2196.5	2217.6	2247.2	2272.6	2306.4	2314.8	2314.8	2276.7	2188.1	2031.8
57.5°	1719.2	1706.5	1723.5	1748.8	1782.6	1816.4	1841.7	1871.3	1867.0	1807.9	1681.2
60°	1292.6	1296.8	1309.4	1334.8	1360.2	1389.7	1423.5	1448.8	1461.6	1432.0	1351.7
62.5°	942.0	942.0	958.8	984.2	996.9	1039.1	1060.2	1072.9	1085.6	1081.3	1030.7
65°	659.0	667.4	675.8	688.6	701.2	726.5	739.2	764.5	773.0	777.2	739.2
67.5°	464.7	452.0	460.5	468.8	481.5	498.5	523.8	523.8	536.4	536.4	511.1
70°	295.7	295.7	299.9	312.6	321.0	325.3	333.7	342.1	354.8	350.6	350.6
72.5°	198.5	194.3	198.5	202.8	207.0	219.6	219.6	223.9	232.3	236.6	219.6
75°	101.4	105.6	114.0	109.9	122.5	114.0	118.2	131.0	126.7	118.2	118.2
77.5°	84.4	84.4	84.4	80.3	88.7	88.7	84.4	92.9	88.7	88.7	84.4
80°	59.1	63.4	59.1	54.9	59.1	54.9	54.9	54.9	54.9	54.9	50.6
82.5°	46.5	38.0	42.3	38.0	42.3	42.3	38.0	33.8	33.8	38.0	33.8
85°	33.8	25.3	29.6	29.6	25.3	25.3	25.3	25.3	25.3	21.1	21.1
87.5°	21.1	12.7	12.7	12.7	16.8	16.8	16.8	12.7	16.8	16.8	8.5
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°	7869.4	7869.4	7869.4	7869.4	7869.4	7869.4	7869.4	7869.4	7869.4	7869.4	7869.4
2.5°	7882.2	7877.9	7886.4	7882.2	7882.2	7877.9	7882.2	7877.9	7886.4	7869.4	7873.7
5°	7882.2	7873.7	7877.9	7882.2	7886.4	7877.9	7877.9	7877.9	7886.4	7877.9	7882.2
7.5°	7865.2	7861.0	7873.7	7882.2	7877.9	7873.7	7882.2	7877.9	7886.4	7882.2	7890.5
10°	7831.4	7835.7	7844.1	7856.7	7861.0	7865.2	7873.7	7873.7	7886.4	7869.4	7877.9
12.5°	7780.8	7797.6	7818.8	7827.2	7844.1	7844.1	7852.6	7856.7	7865.2	7861.0	7873.7
15°	7717.4	7738.5	7763.8	7785.0	7806.1	7818.8	7831.4	7835.7	7848.4	7835.7	7839.9
17.5°	7641.3	7666.7	7704.7	7730.0	7763.8	7776.5	7793.4	7801.9	7814.6	7806.1	7810.3
20°	7535.7	7565.4	7607.5	7645.6	7666.7	7696.2	7717.4	7730.0	7738.5	7730.0	7734.3
22.5°	7387.9	7430.2	7485.1	7514.6	7556.9	7582.2	7586.5	7616.0	7637.1	7616.0	7624.5
25°	7214.7	7257.0	7299.2	7362.6	7400.6	7430.2	7459.7	7464.0	7485.1	7480.8	7476.6
27.5°	6927.5	6982.4	7054.2	7104.9	7155.6	7202.1	7235.9	7244.2	7265.4	7257.0	7261.2
30°	6534.6	6593.8	6661.4	6741.6	6813.5	6859.9	6902.1	6931.7	6952.8	6940.2	6935.9
32.5°	5977.1	6036.2	6108.0	6188.3	6272.8	6340.3	6391.0	6429.1	6454.4	6445.9	6424.8
35°	5339.3	5356.1	5402.6	5466.0	5537.7	5609.6	5656.1	5698.2	5727.8	5736.3	5736.3
37.5°	4684.5	4629.6	4595.8	4595.8	4638.0	4667.6	4709.8	4735.2	4781.7	4798.5	4811.2
40°	4050.8	3924.1	3805.9	3717.2	3658.1	3653.9	3653.9	3666.5	3708.7	3763.6	3814.4
42.5°	3484.9	3282.1	3100.5	2935.7	2817.5	2749.9	2720.3	2724.6	2758.4	2809.0	2893.5
45°	3032.9	2779.5	2551.4	2352.8	2192.3	2086.7	2036.0	2031.8	2057.1	2116.2	2209.2
47.5°	2682.3	2411.9	2154.3	1926.1	1753.0	1638.9	1579.8	1563.0	1579.8	1634.7	1744.6
50°	2390.8	2112.1	1845.9	1609.4	1423.5	1305.3	1250.3	1229.2	1250.3	1296.8	1406.6
52.5°	2120.5	1833.2	1584.0	1355.9	1157.4	1056.0	996.9	984.2	996.9	1051.8	1140.5
55°	1807.9	1563.0	1317.9	1089.8	916.7	815.3	768.8	756.2	768.8	819.5	912.4
57.5°	1499.6	1288.3	1072.9	865.9	718.1	629.3	587.2	570.2	599.8	633.6	743.4
60°	1212.3	1043.4	861.7	680.1	557.6	477.3	443.5	439.3	447.7	490.0	566.0
62.5°	950.5	811.0	667.4	519.6	418.2	384.4	342.1	338.0	346.3	371.7	430.9
65°	684.3	595.6	485.8	380.1	299.9	253.4	236.6	240.8	249.2	266.1	321.0
67.5°	477.3	413.9	338.0	266.1	207.0	185.8	169.0	164.7	169.0	198.5	228.1
70°	321.0	283.0	228.1	202.8	143.7	114.0	118.2	105.6	122.5	122.5	147.8
72.5°	211.2	185.8	152.0	118.2	101.4	80.3	80.3	76.1	84.4	88.7	109.9
75°	109.9	84.4	84.4	59.1	42.3	21.1	38.0	33.8	29.6	33.8	42.3
77.5°	76.1	63.4	59.1	46.5	42.3	33.8	33.8	33.8	33.8	38.0	42.3
80°	46.5	46.5	33.8	29.6	25.3	21.1	25.3	25.3	25.3	25.3	29.6
82.5°	29.6	25.3	25.3	21.1	21.1	16.8	16.8	16.8	16.8	16.8	25.3
85°	25.3	16.8	16.8	12.7	16.8	29.6	12.7	16.8	16.8	16.8	12.7
87.5°	8.5	12.7	12.7	12.7	8.5	4.2	8.5	12.7	12.7	21.1	16.8
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°	7869.4	7869.4	7869.4	7869.4	7869.4	7869.4	7869.4	7869.4	7869.4	7869.4	7869.4
2.5°	7882.2	7886.4	7886.4	7882.2	7882.2	7873.7	7890.5	7877.9	7882.2	7899.0	7886.4
5°	7890.5	7894.8	7894.8	7890.5	7890.5	7890.5	7894.8	7894.8	7890.5	7886.4	7894.8
7.5°	7907.5	7903.2	7903.2	7894.8	7894.8	7886.4	7894.8	7882.2	7890.5	7882.2	7894.8
10°	7886.4	7890.5	7886.4	7882.2	7882.2	7877.9	7877.9	7865.2	7869.4	7856.7	7865.2
12.5°	7873.7	7869.4	7869.4	7861.0	7852.6	7844.1	7839.9	7827.2	7827.2	7797.6	7810.3
15°	7839.9	7844.1	7831.4	7814.6	7806.1	7785.0	7776.5	7759.6	7742.7	7721.6	7725.9
17.5°	7810.3	7797.6	7780.8	7763.8	7730.0	7713.2	7696.2	7670.9	7662.4	7637.1	7628.7
20°	7721.6	7713.2	7692.1	7662.4	7641.3	7603.3	7586.5	7561.1	7539.9	7514.6	7501.9
22.5°	7607.5	7599.1	7573.7	7544.2	7510.4	7493.5	7476.6	7430.2	7409.0	7383.7	7379.4
25°	7464.0	7451.3	7425.9	7392.1	7375.2	7328.8	7311.8	7278.0	7269.7	7244.2	7240.1
27.5°	7244.2	7227.4	7197.8	7155.6	7126.0	7096.4	7079.6	7054.2	7045.8	7020.4	7016.2
30°	6914.8	6893.7	6834.5	6817.7	6766.9	6737.4	6737.4	6703.6	6707.8	6691.0	6691.0
32.5°	6395.3	6361.5	6315.0	6281.2	6247.4	6230.5	6230.5	6217.8	6226.3	6226.3	6234.8
35°	5706.7	5660.3	5634.9	5613.8	5613.8	5630.6	5681.4	5694.1	5719.4	5740.5	5757.5
37.5°	4823.8	4819.7	4849.3	4874.6	4938.0	5009.8	5098.5	5174.5	5246.3	5297.0	5347.7
40°	3869.2	3974.9	4059.3	4177.7	4274.7	4414.1	4574.7	4705.6	4828.1	4916.9	5009.8
42.5°	3020.2	3155.4	3332.8	3506.0	3679.2	3869.2	4080.5	4262.1	4422.6	4545.1	4642.2
45°	2352.8	2538.6	2754.1	2973.8	3197.6	3434.2	3653.9	3839.7	4008.7	4135.4	4232.5
47.5°	1896.6	2099.4	2344.3	2585.1	2838.6	3087.8	3332.8	3493.3	3632.7	3734.1	3822.8
50°	1567.1	1782.6	2040.3	2314.8	2568.2	2817.5	3028.7	3184.9	3299.0	3387.7	3442.6
52.5°	1309.4	1537.5	1812.1	2086.7	2340.1	2568.2	2758.4	2876.6	2969.5	3032.9	3083.5
55°	1081.3	1301.0	1558.7	1816.4	2065.6	2281.0	2437.2	2526.0	2597.8	2635.8	2665.4
57.5°	882.9	1085.6	1322.1	1558.7	1774.1	1951.6	2074.0	2162.7	2196.5	2226.1	2221.9
60°	692.8	882.9	1098.3	1301.0	1486.9	1630.4	1719.2	1769.9	1795.2	1807.9	1799.4
62.5°	544.9	718.1	882.9	1060.2	1195.4	1317.9	1402.4	1402.4	1415.1	1419.3	1432.0
65°	405.5	536.4	680.1	811.0	920.8	1001.1	1047.6	1060.2	1077.2	1072.9	1064.5
67.5°	299.9	397.1	502.6	599.8	675.8	726.5	760.3	790.0	785.7	777.2	773.0
70°	207.0	270.4	363.3	422.4	477.3	528.0	536.4	540.7	544.9	549.1	540.7
72.5°	143.7	190.1	240.8	291.5	325.3	346.3	367.5	371.7	371.7	371.7	367.5
75°	71.8	97.2	143.7	164.7	194.3	202.8	219.6	219.6	232.3	215.4	211.2
77.5°	63.4	76.1	101.4	118.2	131.0	143.7	147.8	160.5	156.3	147.8	152.0
80°	38.0	46.5	63.4	71.8	88.7	92.9	97.2	101.4	97.2	101.4	101.4
82.5°	29.6	33.8	42.3	42.3	54.9	54.9	59.1	59.1	63.4	63.4	63.4
85°	16.8	29.6	25.3	50.6	33.8	33.8	42.3	50.6	42.3	42.3	50.6
87.5°	16.8	16.8	12.7	16.8	16.8	16.8	21.1	25.3	25.3	29.6	25.3
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 ER8B2009727 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	7869.4	7869.4	7869.4	7869.4
2.5°	7882.2	7890.5	7877.9	7873.7
5°	7894.8	7894.8	7886.4	7886.4
7.5°	7894.8	7894.8	7882.2	7873.7
10°	7861.0	7861.0	7848.4	7839.9
12.5°	7797.6	7797.6	7793.4	7780.8
15°	7717.4	7717.4	7700.5	7687.8
17.5°	7607.5	7616.0	7594.9	7594.9
20°	7489.3	7485.1	7468.2	7459.7
22.5°	7366.8	7358.3	7354.1	7328.8
25°	7235.9	7227.4	7214.7	7202.1
27.5°	7012.0	7007.8	6995.1	6978.2
30°	6669.8	6665.6	6648.7	6648.7
32.5°	6226.3	6222.1	6205.2	6209.4
35°	5765.8	5782.8	5774.3	5757.5
37.5°	5381.5	5394.2	5402.6	5394.2
40°	5060.4	5098.5	5102.7	5111.2
42.5°	4718.3	4769.0	4785.9	4794.3
45°	4308.5	4355.0	4393.1	4384.6
47.5°	3890.3	3924.1	3957.9	3932.6
50°	3489.1	3510.2	3522.9	3522.9
52.5°	3109.0	3109.0	3104.7	3109.0
55°	2673.8	2673.8	2657.0	2665.4
57.5°	2217.6	2226.1	2213.4	2192.3
60°	1795.2	1774.1	1765.6	1753.0
62.5°	1398.2	1398.2	1368.6	1406.6
65°	1047.6	1034.9	1022.2	1018.0
67.5°	760.3	756.2	743.4	739.2
70°	536.4	519.6	515.3	506.9
72.5°	359.1	359.1	350.6	350.6
75°	219.6	198.5	194.3	198.5
77.5°	152.0	147.8	147.8	143.7
80°	101.4	97.2	105.6	92.9
82.5°	63.4	67.6	63.4	67.6
85°	42.3	50.6	46.5	46.5
87.5°	25.3	25.3	25.3	25.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)