

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: P249342

Luminaire Tested: **LD8B200D010 ER8B200850 8LBDW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249342
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 ER8B200850 8LBDW0GPH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 5000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21697.0 lumens
Efficiency: N/A
Efficacy: 97.2 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

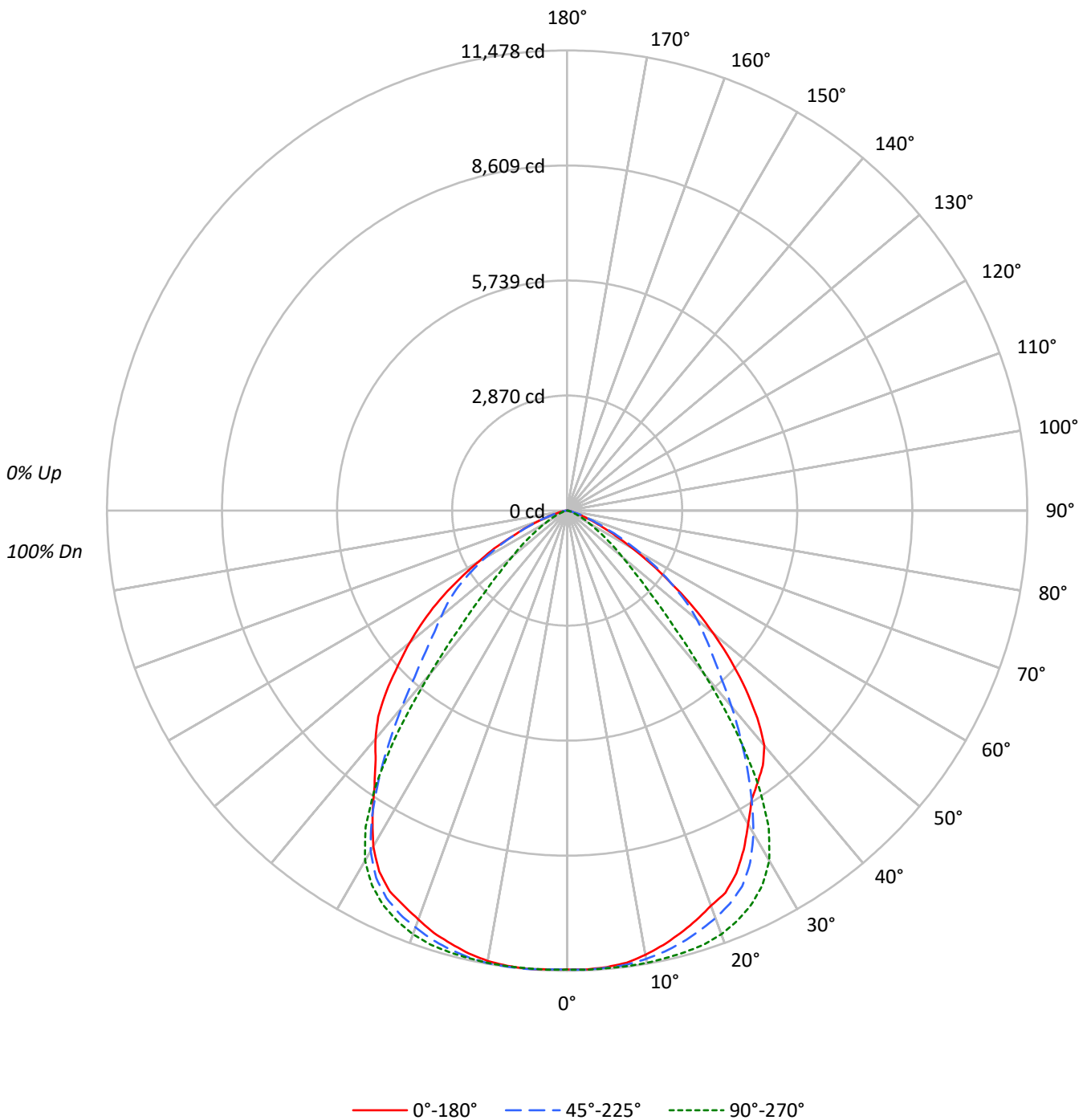
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P249342

CATALOG NUMBER: LD8B200D010 ER8B200850 8LBDW0GPH

Luminous Intensity Polar Plot





TEST NUMBER: P249342

CATALOG NUMBER: LD8B200D010 ER8B200850 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	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					100			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90					90			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79					79			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62					62			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55					55			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50					50			
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45					45			
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41					41			
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37					37			
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	353008	353008	353008
5°	353784	354737	355118
10°	352295	358645	357107
15°	348391	363890	357026
20°	344210	369005	356105
25°	339741	369430	356467
30°	321415	359044	344385
35°	311818	312044	315285
40°	307955	214698	299300
45°	274402	128891	278152
50°	228163	85785	245851
55°	171123	59138	208449
60°	115963	39409	157271
65°	69951	25560	108046
70°	38787	13857	66474
75°	17573	5862	34408
80°	15272	6535	24009
85°	17407	8668	23953



TEST NUMBER: P249342

CATALOG NUMBER: LD8B200D010 ER8B200850 8LBDW0GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1092.5	5.0
10°-20°	3172.9	14.6
20°-30°	4815.8	22.2
30°-40°	5058.0	23.3
40°-50°	3792.2	17.5
50°-60°	2433.1	11.2
60°-70°	1040.9	4.8
70°-80°	245.9	1.1
80°-90°	45.7	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°	9081.2	41.9
0°-40°	14139.2	65.2
0°-60°	20364.5	93.9
0°-90°	21697.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21697.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11448	11448	11448	11448	11448	
5°	11429	11448	11460	11478	11472	###
15°	10913	11141	11399	11325	11184	3078
25°	9985	10336	10858	10661	10477	4562
35°	8283	7822	8289	8191	8375	5199
45°	6292	5143	2956	4996	6378	4819
55°	3183	3183	1100	3318	3877	2887
65°	959	1131	350	1456	1481	1023
75°	148	172	49	295	289	215
85°	49	31	24	49	68	52
90°	0	0	0	0	0	



TEST NUMBER: P249342

CATALOG NUMBER: LD8B200D010 ER8B200850 8LBDW0GPH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	11447.8	11447.8	11447.8	11447.8	11447.8	11447.8	11447.8	11447.8	11447.8	11447.8	11447.8
2.5°	11453.9	11466.3	11460.1	11460.1	11453.9	11460.1	11460.1	11472.4	11472.4	11460.1	11453.9
5°	11429.3	11441.6	11441.6	11429.3	11429.3	11460.1	11441.6	11453.9	11453.9	11447.8	11447.8
7.5°	11374.1	11374.1	11398.6	11380.3	11380.3	11398.6	11392.4	11404.8	11417.1	11423.3	11423.3
10°	11251.1	11263.4	11269.6	11269.6	11275.8	11294.1	11306.4	11331.1	11343.3	11355.6	11361.8
12.5°	11097.6	11115.9	11122.1	11115.9	11134.4	11158.9	11189.8	11220.4	11238.9	11263.4	11281.9
15°	10913.1	10913.1	10925.4	10943.9	10956.3	10993.1	11023.8	11060.6	11109.8	11140.6	11171.3
17.5°	10710.4	10722.8	10741.1	10741.1	10765.8	10827.1	10845.6	10900.9	10956.3	10986.9	11048.4
20°	10489.3	10501.4	10519.9	10532.3	10562.9	10612.1	10648.9	10698.1	10759.6	10814.9	10876.3
22.5°	10317.1	10292.6	10304.8	10317.1	10347.9	10390.9	10433.9	10495.3	10556.8	10612.1	10673.6
25°	9985.3	9991.4	10009.9	10022.1	10059.1	10095.9	10145.1	10218.8	10274.1	10335.6	10403.1
27.5°	9536.8	9542.9	9573.6	9573.6	9604.3	9665.8	9696.4	9757.9	9831.8	9893.1	9973.1
30°	9026.8	9039.0	9039.0	9063.6	9082.0	9112.8	9143.4	9204.9	9241.8	9297.1	9407.8
32.5°	8559.8	8572.0	8565.8	8559.8	8541.3	8535.1	8529.0	8541.3	8553.6	8572.0	8615.0
35°	8283.3	8252.5	8227.9	8184.9	8135.8	8074.3	8019.0	7945.3	7877.6	7822.3	7760.9
37.5°	8019.0	8012.8	7976.0	7914.5	7816.1	7705.6	7576.6	7416.8	7257.0	7085.0	6919.1
40°	7650.3	7631.8	7601.1	7515.1	7404.5	7269.3	7097.3	6900.6	6642.5	6378.3	6108.0
42.5°	7023.5	7029.6	6992.8	6925.1	6820.8	6691.6	6513.5	6298.5	6022.0	5708.5	5358.3
45°	6292.3	6292.3	6280.0	6224.6	6151.0	6046.5	5911.3	5733.1	5462.8	5143.1	4768.3
47.5°	5530.3	5536.5	5518.0	5505.8	5475.0	5407.5	5309.1	5174.0	4983.5	4676.1	4301.3
50°	4756.1	4756.1	4786.8	4780.6	4780.6	4756.1	4713.1	4633.1	4467.3	4221.5	3871.3
52.5°	3981.8	3994.1	4012.6	4037.1	4067.8	4117.0	4067.8	4031.0	3926.5	3736.0	3435.0
55°	3183.0	3195.3	3226.0	3269.0	3306.0	3355.1	3367.3	3367.3	3312.0	3183.0	2955.6
57.5°	2501.0	2482.5	2507.1	2544.0	2593.1	2642.3	2679.1	2722.1	2716.0	2630.0	2445.6
60°	1880.3	1886.5	1904.8	1941.8	1978.7	2021.7	2070.8	2107.7	2126.1	2083.1	1966.3
62.5°	1370.3	1370.3	1394.8	1431.7	1450.2	1511.7	1542.3	1560.8	1579.2	1573.0	1499.3
65°	958.7	970.8	983.2	1001.7	1020.0	1056.8	1075.3	1112.2	1124.5	1130.7	1075.3
67.5°	676.0	657.5	669.8	682.0	700.5	725.2	762.0	762.0	780.3	780.3	743.5
70°	430.2	430.2	436.3	454.7	467.0	473.2	485.5	497.7	516.2	510.0	510.0
72.5°	288.8	282.7	288.8	295.0	301.2	319.5	319.5	325.7	338.0	344.2	319.5
75°	147.5	153.7	165.8	159.8	178.2	165.8	172.0	190.5	184.3	172.0	172.0
77.5°	122.8	122.8	122.8	116.8	129.0	129.0	122.8	135.2	129.0	129.0	122.8
80°	86.0	92.2	86.0	79.8	86.0	79.8	79.8	79.8	79.8	79.8	73.7
82.5°	67.7	55.3	61.5	55.3	61.5	61.5	55.3	49.2	49.2	55.3	49.2
85°	49.2	36.8	43.0	43.0	36.8	36.8	36.8	36.8	36.8	30.7	30.7
87.5°	30.7	18.5	18.5	18.5	24.5	24.5	24.5	18.5	24.5	24.5	12.3
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: P249342

CATALOG NUMBER: LD8B200D010 ER8B200850 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	11447.8	11447.8	11447.8	11447.8	11447.8	11447.8	11447.8	11447.8	11447.8	11447.8	11447.8
2.5°	11466.3	11460.1	11472.4	11466.3	11466.3	11460.1	11466.3	11460.1	11472.4	11447.8	11453.9
5°	11466.3	11453.9	11460.1	11466.3	11472.4	11460.1	11460.1	11460.1	11472.4	11460.1	11466.3
7.5°	11441.6	11435.4	11453.9	11466.3	11460.1	11453.9	11466.3	11460.1	11472.4	11466.3	11478.4
10°	11392.4	11398.6	11410.9	11429.3	11435.4	11441.6	11453.9	11453.9	11472.4	11447.8	11460.1
12.5°	11318.8	11343.3	11374.1	11386.3	11410.9	11410.9	11423.3	11429.3	11441.6	11435.4	11453.9
15°	11226.6	11257.3	11294.1	11324.9	11355.6	11374.1	11392.4	11398.6	11417.1	11398.6	11404.8
17.5°	11115.9	11152.8	11208.1	11244.9	11294.1	11312.6	11337.1	11349.4	11367.9	11355.6	11361.8
20°	10962.3	11005.4	11066.8	11122.1	11152.8	11195.8	11226.6	11244.9	11257.3	11244.9	11251.1
22.5°	10747.3	10808.8	10888.6	10931.6	10993.1	11029.9	11036.1	11079.1	11109.8	11079.1	11091.4
25°	10495.3	10556.8	10618.3	10710.4	10765.8	10808.8	10851.8	10857.9	10888.6	10882.4	10876.3
27.5°	10077.4	10157.4	10261.8	10335.6	10409.3	10476.9	10526.1	10538.3	10569.1	10556.8	10562.9
30°	9506.0	9592.1	9690.4	9807.1	9911.6	9979.1	10040.6	10083.6	10114.3	10095.9	10089.8
32.5°	8694.9	8780.9	8885.4	9002.1	9125.1	9223.3	9297.1	9352.4	9389.3	9376.9	9346.3
35°	7767.1	7791.6	7859.3	7951.4	8055.8	8160.3	8227.9	8289.3	8332.3	8344.6	8344.6
37.5°	6814.6	6734.8	6685.6	6685.6	6747.0	6790.0	6851.5	6888.3	6956.0	6980.5	6999.0
40°	5892.8	5708.5	5536.5	5407.5	5321.5	5315.3	5315.3	5333.6	5395.1	5475.0	5548.8
42.5°	5069.5	4774.5	4510.3	4270.6	4098.6	4000.3	3957.3	3963.5	4012.6	4086.3	4209.1
45°	4412.0	4043.3	3711.5	3422.6	3189.1	3035.5	2961.8	2955.6	2992.5	3078.5	3213.8
47.5°	3902.0	3508.7	3133.8	2802.0	2550.1	2384.2	2298.2	2273.6	2298.2	2378.0	2537.8
50°	3478.0	3072.5	2685.3	2341.2	2070.8	1898.8	1818.8	1788.2	1818.8	1886.5	2046.2
52.5°	3084.7	2666.8	2304.3	1972.5	1683.7	1536.2	1450.2	1431.7	1450.2	1530.0	1659.1
55°	2630.0	2273.6	1917.2	1585.3	1333.5	1186.0	1118.3	1100.0	1118.3	1192.1	1327.3
57.5°	2181.5	1874.2	1560.8	1259.7	1044.7	915.5	854.2	829.5	872.5	921.7	1081.5
60°	1763.5	1517.8	1253.5	989.3	811.2	694.3	645.2	639.0	651.3	712.8	823.3
62.5°	1382.6	1179.8	970.8	755.8	608.3	559.2	497.7	491.7	503.8	540.7	626.8
65°	995.5	866.5	706.7	553.0	436.3	368.7	344.2	350.3	362.5	387.2	467.0
67.5°	694.3	602.2	491.7	387.2	301.2	270.3	245.8	239.7	245.8	288.8	331.8
70°	467.0	411.7	331.8	295.0	209.0	165.8	172.0	153.7	178.2	178.2	215.0
72.5°	307.2	270.3	221.2	172.0	147.5	116.8	116.8	110.7	122.8	129.0	159.8
75°	159.8	122.8	122.8	86.0	61.5	30.7	55.3	49.2	43.0	49.2	61.5
77.5°	110.7	92.2	86.0	67.7	61.5	49.2	49.2	49.2	49.2	55.3	61.5
80°	67.7	67.7	49.2	43.0	36.8	30.7	36.8	36.8	36.8	36.8	43.0
82.5°	43.0	36.8	36.8	30.7	30.7	24.5	24.5	24.5	24.5	24.5	36.8
85°	36.8	24.5	24.5	18.5	24.5	43.0	18.5	24.5	24.5	24.5	18.5
87.5°	12.3	18.5	18.5	18.5	12.3	6.2	12.3	18.5	18.5	30.7	24.5
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: P249342

CATALOG NUMBER: LD8B200D010 ER8B200850 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	11447.8	11447.8	11447.8	11447.8	11447.8	11447.8	11447.8	11447.8	11447.8	11447.8	11447.8
2.5°	11466.3	11472.4	11472.4	11466.3	11466.3	11453.9	11478.4	11460.1	11466.3	11490.8	11472.4
5°	11478.4	11484.6	11484.6	11478.4	11478.4	11478.4	11484.6	11484.6	11478.4	11472.4	11484.6
7.5°	11503.1	11496.9	11496.9	11484.6	11484.6	11472.4	11484.6	11466.3	11478.4	11466.3	11484.6
10°	11472.4	11478.4	11472.4	11466.3	11466.3	11460.1	11460.1	11441.6	11447.8	11429.3	11441.6
12.5°	11453.9	11447.8	11447.8	11435.4	11423.3	11410.9	11404.8	11386.3	11386.3	11343.3	11361.8
15°	11404.8	11410.9	11392.4	11367.9	11355.6	11324.9	11312.6	11287.9	11263.4	11232.8	11238.9
17.5°	11361.8	11343.3	11318.8	11294.1	11244.9	11220.4	11195.8	11158.9	11146.6	11109.8	11097.6
20°	11232.8	11220.4	11189.8	11146.6	11115.9	11060.6	11036.1	10999.3	10968.4	10931.6	10913.1
22.5°	11066.8	11054.4	11017.6	10974.6	10925.4	10900.9	10876.3	10808.8	10777.9	10741.1	10734.9
25°	10857.9	10839.4	10802.6	10753.4	10728.8	10661.3	10636.6	10587.4	10575.3	10538.3	10532.3
27.5°	10538.3	10513.8	10470.8	10409.3	10366.3	10323.3	10298.8	10261.8	10249.6	10212.6	10206.6
30°	10059.1	10028.3	9942.3	9917.8	9843.9	9800.9	9800.9	9751.8	9757.9	9733.4	9733.4
32.5°	9303.3	9254.1	9186.4	9137.3	9088.1	9063.6	9063.6	9045.1	9057.4	9057.4	9069.8
35°	8301.6	8234.1	8197.1	8166.4	8166.4	8191.0	8264.8	8283.3	8320.1	8350.8	8375.4
37.5°	7017.3	7011.3	7054.3	7091.1	7183.3	7287.8	7416.8	7527.4	7631.8	7705.6	7779.3
40°	5628.6	5782.3	5905.1	6077.3	6218.5	6421.3	6654.8	6845.3	7023.5	7152.6	7287.8
42.5°	4393.5	4590.1	4848.3	5100.1	5352.1	5628.6	5936.0	6200.1	6433.6	6611.8	6753.1
45°	3422.6	3693.0	4006.5	4326.0	4651.6	4995.8	5315.3	5585.6	5831.5	6015.8	6157.1
47.5°	2759.0	3054.0	3410.3	3760.6	4129.3	4491.8	4848.3	5081.8	5284.5	5432.0	5561.1
50°	2279.7	2593.1	2968.0	3367.3	3736.0	4098.6	4405.8	4633.1	4799.1	4928.1	5008.0
52.5°	1904.8	2236.7	2636.1	3035.5	3404.2	3736.0	4012.6	4184.6	4319.8	4412.0	4485.6
55°	1573.0	1892.6	2267.5	2642.3	3004.8	3318.2	3545.5	3674.6	3779.0	3834.3	3877.3
57.5°	1284.3	1579.2	1923.3	2267.5	2580.8	2839.0	3017.1	3146.1	3195.3	3238.3	3232.1
60°	1007.8	1284.3	1597.7	1892.6	2163.0	2371.8	2501.0	2574.7	2611.5	2630.0	2617.7
62.5°	792.7	1044.7	1284.3	1542.3	1739.0	1917.2	2040.1	2040.1	2058.5	2064.7	2083.1
65°	589.8	780.3	989.3	1179.8	1339.5	1456.3	1524.0	1542.3	1567.0	1560.8	1548.5
67.5°	436.3	577.7	731.2	872.5	983.2	1056.8	1106.0	1149.1	1143.0	1130.7	1124.5
70°	301.2	393.3	528.5	614.5	694.3	768.2	780.3	786.5	792.7	798.8	786.5
72.5°	209.0	276.5	350.3	424.0	473.2	503.8	534.7	540.7	540.7	540.7	534.7
75°	104.5	141.3	209.0	239.7	282.7	295.0	319.5	319.5	338.0	313.3	307.2
77.5°	92.2	110.7	147.5	172.0	190.5	209.0	215.0	233.5	227.3	215.0	221.2
80°	55.3	67.7	92.2	104.5	129.0	135.2	141.3	147.5	141.3	147.5	147.5
82.5°	43.0	49.2	61.5	61.5	79.8	79.8	86.0	86.0	92.2	92.2	92.2
85°	24.5	43.0	36.8	73.7	49.2	49.2	61.5	73.7	61.5	61.5	73.7
87.5°	24.5	24.5	18.5	24.5	24.5	24.5	30.7	36.8	36.8	43.0	36.8
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: P249342

CATALOG NUMBER: LD8B200D010 ER8B200850 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	11447.8	11447.8	11447.8	11447.8
2.5°	11466.3	11478.4	11460.1	11453.9
5°	11484.6	11484.6	11472.4	11472.4
7.5°	11484.6	11484.6	11466.3	11453.9
10°	11435.4	11435.4	11417.1	11404.8
12.5°	11343.3	11343.3	11337.1	11318.8
15°	11226.6	11226.6	11201.9	11183.6
17.5°	11066.8	11079.1	11048.4	11048.4
20°	10894.8	10888.6	10864.1	10851.8
22.5°	10716.6	10704.3	10698.1	10661.3
25°	10526.1	10513.8	10495.3	10476.9
27.5°	10200.4	10194.3	10175.8	10151.3
30°	9702.6	9696.4	9671.9	9671.9
32.5°	9057.4	9051.3	9026.8	9032.9
35°	8387.6	8412.3	8399.9	8375.4
37.5°	7828.5	7846.9	7859.3	7846.9
40°	7361.5	7416.8	7423.0	7435.3
42.5°	6863.8	6937.5	6962.1	6974.3
45°	6267.6	6335.3	6390.6	6378.3
47.5°	5659.3	5708.5	5757.6	5720.8
50°	5075.6	5106.3	5124.8	5124.8
52.5°	4522.6	4522.6	4516.5	4522.6
55°	3889.6	3889.6	3865.1	3877.3
57.5°	3226.0	3238.3	3219.8	3189.1
60°	2611.5	2580.8	2568.5	2550.1
62.5°	2034.0	2034.0	1991.0	2046.2
65°	1524.0	1505.5	1487.0	1480.8
67.5°	1106.0	1100.0	1081.5	1075.3
70°	780.3	755.8	749.7	737.3
72.5°	522.3	522.3	510.0	510.0
75°	319.5	288.8	282.7	288.8
77.5°	221.2	215.0	215.0	209.0
80°	147.5	141.3	153.7	135.2
82.5°	92.2	98.3	92.2	98.3
85°	61.5	73.7	67.7	67.7
87.5°	36.8	36.8	36.8	36.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)