

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: P249495

Luminaire Tested: **LD8B200D010 ER8B200950 8LBDW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249495
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 ER8B200950 8LBDW0B
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 5000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17882.0 lumens
Efficiency: N/A
Efficacy: 80.1 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

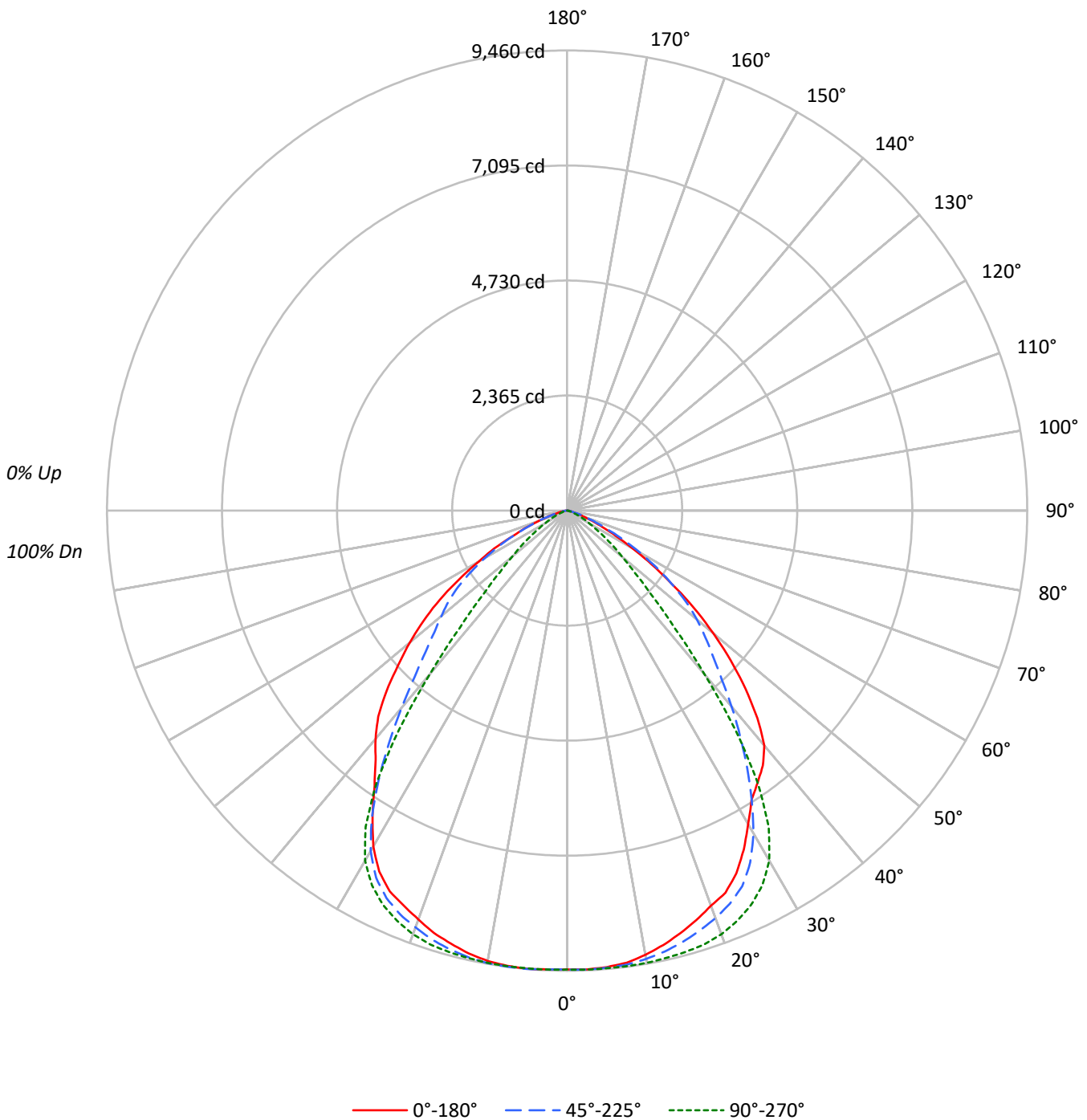
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P249495

CATALOG NUMBER: LD8B200D010 ER8B200950 8LBDW0B

Luminous Intensity Polar Plot





TEST NUMBER: P249495

CATALOG NUMBER: LD8B200D010 ER8B200950 8LBDW0B

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°	290938	290938	290938
5°	291578	292365	292677
10°	290350	295585	294317
15°	287132	299908	294251
20°	283685	304123	293490
25°	280005	304475	293791
30°	264900	295913	283832
35°	256989	257178	259850
40°	253805	176948	246672
45°	226153	106232	229244
50°	188049	70697	202623
55°	141032	48740	171800
60°	95574	32477	129617
65°	57650	21065	89054
70°	31961	11414	54790
75°	14488	4825	28356
80°	12590	5398	19782
85°	14329	7147	19742



TEST NUMBER: P249495

CATALOG NUMBER: LD8B200D010 ER8B200950 8LBDW0B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	900.4	5.0
10°-20°	2615.0	14.6
20°-30°	3969.0	22.2
30°-40°	4168.7	23.3
40°-50°	3125.4	17.5
50°-60°	2005.3	11.2
60°-70°	857.8	4.8
70°-80°	202.7	1.1
80°-90°	37.7	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°	7484.4	41.9
0°-40°	11653.1	65.2
0°-60°	16783.8	93.9
0°-90°	17882.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17882.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9435	9435	9435	9435	9435	
5°	9420	9435	9445	9460	9455	895
15°	8994	9182	9394	9334	9217	2537
25°	8230	8518	8949	8787	8635	3760
35°	6827	6447	6832	6751	6903	4285
45°	5186	4239	2436	4117	5257	3972
55°	2623	2623	907	2735	3196	2380
65°	790	932	289	1200	1220	843
75°	122	142	40	243	238	177
85°	40	25	20	40	56	43
90°	0	0	0	0	0	



TEST NUMBER: P249495

CATALOG NUMBER: LD8B200D010 ER8B200950 8LBDW0B

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	9434.9	9434.9	9434.9	9434.9	9434.9	9434.9	9434.9	9434.9	9434.9	9434.9	9434.9
2.5°	9440.0	9450.1	9445.1	9445.1	9440.0	9445.1	9445.1	9455.2	9455.2	9445.1	9440.0
5°	9419.7	9429.8	9429.8	9419.7	9419.7	9445.1	9429.8	9440.0	9440.0	9434.9	9434.9
7.5°	9374.2	9374.2	9394.4	9379.3	9379.3	9394.4	9389.3	9399.5	9409.6	9414.7	9414.7
10°	9272.8	9283.0	9288.1	9288.1	9293.1	9308.3	9318.4	9338.7	9348.8	9358.9	9364.0
12.5°	9146.3	9161.4	9166.5	9161.4	9176.7	9196.9	9222.3	9247.5	9262.8	9283.0	9298.2
15°	8994.2	8994.2	9004.4	9019.6	9029.8	9060.2	9085.5	9115.8	9156.3	9181.7	9207.0
17.5°	8827.2	8837.4	8852.5	8852.5	8872.8	8923.4	8938.6	8984.2	9029.8	9055.1	9105.8
20°	8644.9	8655.0	8670.2	8680.4	8705.6	8746.2	8776.5	8817.0	8867.7	8913.3	8963.9
22.5°	8503.0	8482.8	8492.9	8503.0	8528.4	8563.9	8599.3	8649.9	8700.6	8746.2	8796.8
25°	8229.6	8234.6	8249.9	8259.9	8290.4	8320.8	8361.3	8422.0	8467.6	8518.3	8573.9
27.5°	7859.9	7865.0	7890.3	7890.3	7915.6	7966.2	7991.5	8042.2	8103.0	8153.6	8219.5
30°	7439.6	7449.6	7449.6	7469.9	7485.1	7510.5	7535.7	7586.4	7616.8	7662.4	7753.6
32.5°	7054.7	7064.7	7059.7	7054.7	7039.5	7034.4	7029.3	7039.5	7049.6	7064.7	7100.2
35°	6826.8	6801.4	6781.2	6745.8	6705.3	6654.6	6609.0	6548.3	6492.5	6446.9	6396.3
37.5°	6609.0	6603.9	6573.5	6522.9	6441.8	6350.7	6244.4	6112.7	5981.0	5839.2	5702.5
40°	6305.1	6289.9	6264.6	6193.7	6102.5	5991.1	5849.4	5687.3	5474.5	5256.8	5034.0
42.5°	5788.5	5793.6	5763.2	5707.5	5621.5	5515.0	5368.2	5191.0	4963.1	4704.7	4416.1
45°	5185.9	5185.9	5175.8	5130.2	5069.4	4983.3	4871.9	4725.1	4502.3	4238.8	3929.9
47.5°	4557.9	4563.0	4547.7	4537.7	4512.3	4456.7	4375.6	4264.2	4107.2	3853.9	3545.0
50°	3919.9	3919.9	3945.1	3940.1	3940.1	3919.9	3884.4	3818.5	3681.8	3479.2	3190.6
52.5°	3281.7	3291.8	3307.1	3327.3	3352.6	3393.1	3352.6	3322.2	3236.1	3079.1	2831.0
55°	2623.3	2633.5	2658.8	2694.2	2724.7	2765.2	2775.2	2775.2	2729.6	2623.3	2436.0
57.5°	2061.2	2046.0	2066.3	2096.7	2137.2	2177.7	2208.1	2243.5	2238.4	2167.6	2015.6
60°	1549.7	1554.8	1569.9	1600.4	1630.7	1666.2	1706.7	1737.1	1752.3	1716.9	1620.6
62.5°	1129.4	1129.4	1149.6	1179.9	1195.2	1245.9	1271.1	1286.4	1301.5	1296.4	1235.7
65°	790.1	800.1	810.3	825.5	840.7	871.0	886.3	916.6	926.8	931.9	886.3
67.5°	557.1	541.9	552.0	562.1	577.3	597.6	628.0	628.0	643.1	643.1	612.8
70°	354.5	354.5	359.6	374.7	384.9	390.0	400.1	410.2	425.4	420.3	420.3
72.5°	238.0	233.0	238.0	243.1	248.2	263.3	263.3	268.4	278.6	283.6	263.3
75°	121.6	126.6	136.7	131.7	146.8	136.7	141.8	157.0	151.9	141.8	141.8
77.5°	101.2	101.2	101.2	96.3	106.3	106.3	101.2	111.4	106.3	106.3	101.2
80°	70.9	76.0	70.9	65.8	70.9	65.8	65.8	65.8	65.8	65.8	60.7
82.5°	55.8	45.6	50.7	45.6	50.7	50.7	45.6	40.5	40.5	45.6	40.5
85°	40.5	30.4	35.4	35.4	30.4	30.4	30.4	30.4	30.4	25.3	25.3
87.5°	25.3	15.2	15.2	15.2	20.2	20.2	20.2	15.2	20.2	20.2	10.2
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: P249495

CATALOG NUMBER: LD8B200D010 ER8B200950 8LBDW0B

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	9434.9	9434.9	9434.9	9434.9	9434.9	9434.9	9434.9	9434.9	9434.9	9434.9	9434.9
2.5°	9450.1	9445.1	9455.2	9450.1	9450.1	9445.1	9450.1	9445.1	9455.2	9434.9	9440.0
5°	9450.1	9440.0	9445.1	9450.1	9455.2	9445.1	9445.1	9445.1	9455.2	9445.1	9450.1
7.5°	9429.8	9424.7	9440.0	9450.1	9445.1	9440.0	9450.1	9445.1	9455.2	9450.1	9460.2
10°	9389.3	9394.4	9404.5	9419.7	9424.7	9429.8	9440.0	9440.0	9455.2	9434.9	9445.1
12.5°	9328.6	9348.8	9374.2	9384.2	9404.5	9404.5	9414.7	9419.7	9429.8	9424.7	9440.0
15°	9252.6	9277.9	9308.3	9333.7	9358.9	9374.2	9389.3	9394.4	9409.6	9394.4	9399.5
17.5°	9161.4	9191.8	9237.4	9267.7	9308.3	9323.5	9343.7	9353.9	9369.1	9358.9	9364.0
20°	9034.8	9070.3	9120.9	9166.5	9191.8	9227.2	9252.6	9267.7	9277.9	9267.7	9272.8
22.5°	8857.6	8908.2	8974.0	9009.5	9060.2	9090.5	9095.6	9131.1	9156.3	9131.1	9141.2
25°	8649.9	8700.6	8751.2	8827.2	8872.8	8908.2	8943.7	8948.8	8974.0	8969.0	8963.9
27.5°	8305.5	8371.4	8457.4	8518.3	8579.0	8634.8	8675.3	8685.3	8710.7	8700.6	8705.6
30°	7834.5	7905.5	7986.6	8082.7	8168.8	8224.5	8275.2	8310.6	8335.9	8320.8	8315.7
32.5°	7166.1	7237.0	7323.1	7419.3	7520.6	7601.5	7662.4	7708.0	7738.4	7728.2	7702.9
35°	6401.4	6421.6	6477.4	6553.3	6639.3	6725.5	6781.2	6831.8	6867.2	6877.4	6877.4
37.5°	5616.4	5550.6	5510.1	5510.1	5560.6	5596.1	5646.8	5677.1	5732.9	5753.1	5768.3
40°	4856.7	4704.7	4563.0	4456.7	4385.8	4380.7	4380.7	4395.8	4446.5	4512.3	4573.1
42.5°	4178.1	3935.0	3717.3	3519.7	3378.0	3296.9	3261.5	3266.6	3307.1	3367.8	3469.1
45°	3636.2	3332.4	3058.9	2820.8	2628.4	2501.8	2441.0	2436.0	2466.3	2537.2	2648.7
47.5°	3215.9	2891.7	2582.8	2309.3	2101.7	1964.9	1894.1	1873.9	1894.1	1959.9	2091.6
50°	2866.4	2532.2	2213.2	1929.5	1706.7	1564.9	1499.0	1473.7	1499.0	1554.8	1686.4
52.5°	2542.3	2197.9	1899.1	1625.7	1387.6	1266.1	1195.2	1179.9	1195.2	1261.0	1367.4
55°	2167.6	1873.9	1580.1	1306.6	1099.0	977.5	921.7	906.6	921.7	982.5	1093.9
57.5°	1797.9	1544.6	1286.4	1038.2	861.0	754.5	704.0	683.7	719.1	759.6	891.3
60°	1453.4	1250.9	1033.1	815.4	668.5	572.2	531.7	526.6	536.8	587.5	678.6
62.5°	1139.5	972.4	800.1	622.9	501.4	460.8	410.2	405.2	415.2	445.6	516.6
65°	820.5	714.1	582.4	455.8	359.6	303.8	283.6	288.7	298.8	319.1	384.9
67.5°	572.2	496.3	405.2	319.1	248.2	222.8	202.6	197.5	202.6	238.0	273.5
70°	384.9	339.3	273.5	243.1	172.2	136.7	141.8	126.6	146.8	146.8	177.2
72.5°	253.2	222.8	182.3	141.8	121.6	96.3	96.3	91.2	101.2	106.3	131.7
75°	131.7	101.2	101.2	70.9	50.7	25.3	45.6	40.5	35.4	40.5	50.7
77.5°	91.2	76.0	70.9	55.8	50.7	40.5	40.5	40.5	40.5	45.6	50.7
80°	55.8	55.8	40.5	35.4	30.4	25.3	30.4	30.4	30.4	30.4	35.4
82.5°	35.4	30.4	30.4	25.3	25.3	20.2	20.2	20.2	20.2	20.2	30.4
85°	30.4	20.2	20.2	15.2	20.2	35.4	15.2	20.2	20.2	20.2	15.2
87.5°	10.2	15.2	15.2	15.2	10.2	5.1	10.2	15.2	15.2	25.3	20.2
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: P249495

CATALOG NUMBER: LD8B200D010 ER8B200950 8LBDW0B

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	9434.9	9434.9	9434.9	9434.9	9434.9	9434.9	9434.9	9434.9	9434.9	9434.9	9434.9
2.5°	9450.1	9455.2	9455.2	9450.1	9450.1	9440.0	9460.2	9445.1	9450.1	9470.3	9455.2
5°	9460.2	9465.3	9465.3	9460.2	9460.2	9460.2	9465.3	9465.3	9460.2	9455.2	9465.3
7.5°	9480.5	9475.4	9475.4	9465.3	9465.3	9455.2	9465.3	9450.1	9460.2	9450.1	9465.3
10°	9455.2	9460.2	9455.2	9450.1	9450.1	9445.1	9445.1	9429.8	9434.9	9419.7	9429.8
12.5°	9440.0	9434.9	9434.9	9424.7	9414.7	9404.5	9399.5	9384.2	9384.2	9348.8	9364.0
15°	9399.5	9404.5	9389.3	9369.1	9358.9	9333.7	9323.5	9303.2	9283.0	9257.7	9262.8
17.5°	9364.0	9348.8	9328.6	9308.3	9267.7	9247.5	9227.2	9196.9	9186.7	9156.3	9146.3
20°	9257.7	9247.5	9222.3	9186.7	9161.4	9115.8	9095.6	9065.2	9039.8	9009.5	8994.2
22.5°	9120.9	9110.7	9080.4	9044.9	9004.4	8984.2	8963.9	8908.2	8882.8	8852.5	8847.4
25°	8948.8	8933.5	8903.2	8862.6	8842.3	8786.7	8766.4	8725.8	8715.8	8685.3	8680.4
27.5°	8685.3	8665.1	8629.7	8579.0	8543.6	8508.1	8487.9	8457.4	8447.4	8416.9	8412.0
30°	8290.4	8265.0	8194.1	8173.9	8113.1	8077.6	8077.6	8037.1	8042.2	8022.0	8022.0
32.5°	7667.5	7626.9	7571.2	7530.7	7490.1	7469.9	7469.9	7454.7	7464.9	7464.9	7475.0
35°	6841.9	6786.3	6755.8	6730.5	6730.5	6750.7	6811.6	6826.8	6857.2	6882.5	6902.8
37.5°	5783.4	5778.5	5813.9	5844.3	5920.2	6006.4	6112.7	6203.9	6289.9	6350.7	6411.5
40°	4638.9	4765.6	4866.8	5008.7	5125.1	5292.2	5484.7	5641.7	5788.5	5895.0	6006.4
42.5°	3621.0	3783.1	3995.8	4203.4	4411.1	4638.9	4892.2	5110.0	5302.4	5449.2	5565.7
45°	2820.8	3043.6	3302.0	3565.3	3833.7	4117.4	4380.7	4603.5	4806.1	4958.0	5074.5
47.5°	2273.9	2517.0	2810.7	3099.4	3403.2	3702.0	3995.8	4188.3	4355.3	4476.9	4583.3
50°	1878.8	2137.2	2446.1	2775.2	3079.1	3378.0	3631.1	3818.5	3955.3	4061.6	4127.4
52.5°	1569.9	1843.4	2172.6	2501.8	2805.6	3079.1	3307.1	3448.8	3560.3	3636.2	3696.9
55°	1296.4	1559.9	1868.8	2177.7	2476.5	2734.7	2922.1	3028.5	3114.5	3160.1	3195.6
57.5°	1058.5	1301.5	1585.1	1868.8	2127.0	2339.8	2486.6	2593.0	2633.5	2668.9	2663.8
60°	830.6	1058.5	1316.7	1559.9	1782.7	1954.8	2061.2	2122.0	2152.3	2167.6	2157.4
62.5°	653.3	861.0	1058.5	1271.1	1433.2	1580.1	1681.4	1681.4	1696.5	1701.6	1716.9
65°	486.1	643.1	815.4	972.4	1104.0	1200.3	1256.0	1271.1	1291.5	1286.4	1276.2
67.5°	359.6	476.1	602.6	719.1	810.3	871.0	911.5	947.1	942.0	931.9	926.8
70°	248.2	324.2	435.6	506.4	572.2	633.1	643.1	648.2	653.3	658.4	648.2
72.5°	172.2	227.9	288.7	349.4	390.0	415.2	440.6	445.6	445.6	445.6	440.6
75°	86.1	116.5	172.2	197.5	233.0	243.1	263.3	263.3	278.6	258.2	253.2
77.5°	76.0	91.2	121.6	141.8	157.0	172.2	177.2	192.4	187.4	177.2	182.3
80°	45.6	55.8	76.0	86.1	106.3	111.4	116.5	121.6	116.5	121.6	121.6
82.5°	35.4	40.5	50.7	50.7	65.8	65.8	70.9	70.9	76.0	76.0	76.0
85°	20.2	35.4	30.4	60.7	40.5	40.5	50.7	60.7	50.7	50.7	60.7
87.5°	20.2	20.2	15.2	20.2	20.2	20.2	25.3	30.4	30.4	35.4	30.4
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: P249495

CATALOG NUMBER: LD8B200D010 ER8B200950 8LBDW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	9434.9	9434.9	9434.9	9434.9
2.5°	9450.1	9460.2	9445.1	9440.0
5°	9465.3	9465.3	9455.2	9455.2
7.5°	9465.3	9465.3	9450.1	9440.0
10°	9424.7	9424.7	9409.6	9399.5
12.5°	9348.8	9348.8	9343.7	9328.6
15°	9252.6	9252.6	9232.3	9217.2
17.5°	9120.9	9131.1	9105.8	9105.8
20°	8979.1	8974.0	8953.8	8943.7
22.5°	8832.3	8822.1	8817.0	8786.7
25°	8675.3	8665.1	8649.9	8634.8
27.5°	8406.9	8401.8	8386.6	8366.4
30°	7996.6	7991.5	7971.3	7971.3
32.5°	7464.9	7459.8	7439.6	7444.7
35°	6912.8	6933.1	6923.0	6902.8
37.5°	6452.0	6467.2	6477.4	6467.2
40°	6067.1	6112.7	6117.8	6127.9
42.5°	5656.9	5717.6	5738.0	5748.0
45°	5165.6	5221.4	5267.0	5256.8
47.5°	4664.2	4704.7	4745.3	4714.9
50°	4183.2	4208.5	4223.7	4223.7
52.5°	3727.4	3727.4	3722.3	3727.4
55°	3205.7	3205.7	3185.5	3195.6
57.5°	2658.8	2668.9	2653.7	2628.4
60°	2152.3	2127.0	2116.9	2101.7
62.5°	1676.3	1676.3	1640.9	1686.4
65°	1256.0	1240.8	1225.5	1220.5
67.5°	911.5	906.6	891.3	886.3
70°	643.1	622.9	617.8	607.7
72.5°	430.5	430.5	420.3	420.3
75°	263.3	238.0	233.0	238.0
77.5°	182.3	177.2	177.2	172.2
80°	121.6	116.5	126.6	111.4
82.5°	76.0	81.0	76.0	81.0
85°	50.7	60.7	55.8	55.8
87.5°	30.4	30.4	30.4	30.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)