

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: P250280

Luminaire Tested: **LD8B200D010 ER8B200927 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250280
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13955)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200927 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17269.9 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

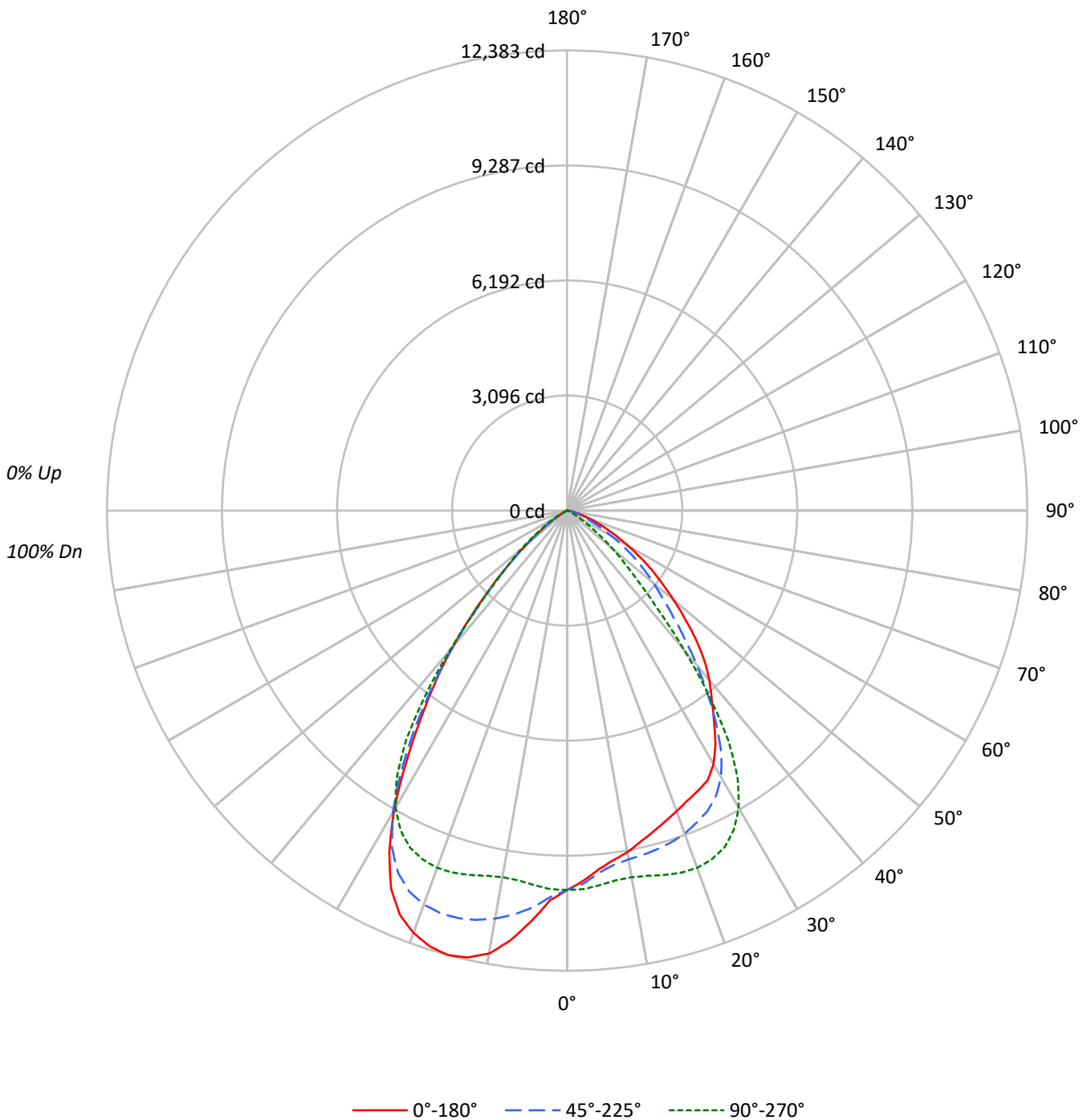
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P250280

CATALOG NUMBER: LD8B200D010 ER8B200927 8LBSW0WH

Luminous Intensity Polar Plot





TEST NUMBER: P250280

CATALOG NUMBER: LD8B200D010 ER8B200927 8LBSW0WH

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	109	106	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38

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: P250280

CATALOG NUMBER: LD8B200D010 ER8B200927 8LBSW0WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	981.7	5.7
10°-20°	2938.1	17.0
20°-30°	4499.4	26.1
30°-40°	4410.9	25.5
40°-50°	2656.3	15.4
50°-60°	1222.6	7.1
60°-70°	429.5	2.5
70°-80°	112.3	0.7
80°-90°	19.1	0.1
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°	8419.2	48.8
0°-40°	12830.1	74.3
0°-60°	16708.9	96.8
0°-90°	17269.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17269.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10212	10212	10212	10212	10212	
5°	9692	9782	10116	10722	11090	915
15°	8947	9429	10150	11352	12383	2528
25°	8322	8923	10007	10760	11209	3833
35°	6886	6981	7558	7124	6895	4313
45°	4891	4028	2730	2749	2820	3751
55°	2777	2200	783	616	592	2478
65°	1179	816	124	62	67	1201
75°	305	177	10	0	0	370
85°	48	24	5	0	0	66
90°	0	0	0	0	0	



TEST NUMBER: P250280

CATALOG NUMBER: LD8B200D010 ER8B200927 8LBSW0WH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	10211.7	10211.7	10211.7	10211.7	10211.7	10211.7	10211.7	10211.7	10211.7	10211.7	10211.7
2.5°	9973.1	9982.7	9982.7	9982.7	10001.7	10006.6	10001.7	10006.6	10016.1	10049.5	10063.8
5°	9691.6	9677.2	9686.9	9682.0	9705.9	9720.3	9710.7	9724.9	9758.4	9782.3	9806.2
7.5°	9491.3	9491.3	9491.3	9500.7	9515.0	9543.7	9539.0	9548.4	9581.8	9615.3	9648.6
10°	9333.8	9329.1	9329.1	9352.8	9371.8	9405.2	9414.9	9443.6	9486.3	9529.4	9567.4
12.5°	9128.5	9133.4	9157.2	9181.1	9224.0	9276.4	9305.1	9343.4	9410.2	9481.6	9524.7
15°	8947.2	8952.0	8971.2	9018.7	9071.3	9133.4	9195.3	9257.3	9338.5	9429.2	9505.6
17.5°	8770.6	8775.3	8789.7	8842.3	8909.1	8990.2	9061.8	9142.9	9247.9	9352.8	9448.2
20°	8608.4	8603.7	8627.4	8675.2	8761.2	8837.4	8909.1	9004.6	9119.0	9247.9	9357.5
22.5°	8450.9	8450.9	8474.8	8522.6	8598.9	8675.2	8751.6	8851.7	8966.2	9090.3	9219.3
25°	8322.1	8317.4	8350.6	8374.6	8431.8	8508.3	8589.4	8670.5	8785.0	8923.4	9047.4
27.5°	8183.7	8179.1	8183.7	8212.4	8264.8	8322.1	8384.1	8455.7	8551.2	8665.8	8785.0
30°	7878.4	7883.0	7883.0	7907.0	7935.6	7997.5	8030.9	8102.6	8188.4	8283.9	8389.0
32.5°	7425.0	7429.7	7429.7	7439.3	7463.1	7491.8	7520.5	7572.9	7639.6	7720.8	7816.3
35°	6885.9	6885.9	6881.0	6885.9	6900.2	6900.2	6923.9	6900.2	6933.6	6981.3	7052.8
37.5°	6389.6	6379.9	6370.4	6360.9	6346.5	6322.7	6289.3	6231.9	6217.7	6198.6	6203.4
40°	5950.6	5945.8	5917.2	5893.2	5845.5	5788.3	5707.1	5607.0	5525.9	5430.4	5349.3
42.5°	5463.8	5459.0	5435.1	5392.1	5339.7	5253.9	5125.0	4991.4	4829.2	4686.1	4538.1
45°	4891.0	4905.4	4872.0	4824.3	4762.2	4681.1	4538.1	4375.7	4213.5	4027.5	3841.2
47.5°	4294.6	4289.8	4266.1	4237.4	4185.0	4103.9	4008.4	3831.9	3660.0	3488.3	3297.4
50°	3741.1	3722.1	3712.4	3683.9	3650.5	3583.8	3483.3	3340.2	3187.6	3025.4	2848.7
52.5°	3216.3	3216.3	3192.3	3173.3	3144.6	3092.2	3006.3	2891.8	2762.9	2610.1	2424.2
55°	2777.3	2767.6	2743.9	2719.9	2691.2	2657.8	2581.6	2486.2	2347.8	2199.8	2037.6
57.5°	2309.6	2304.7	2295.3	2266.6	2252.2	2218.8	2133.0	2037.6	1918.4	1789.5	1655.8
60°	1889.7	1870.6	1851.4	1832.3	1808.6	1775.1	1717.9	1636.8	1536.5	1422.0	1288.5
62.5°	1512.8	1541.2	1484.1	1484.1	1436.4	1407.7	1355.3	1307.5	1202.4	1097.6	983.0
65°	1178.7	1178.7	1154.7	1135.7	1107.0	1073.6	1021.2	973.5	897.0	815.8	734.7
67.5°	901.9	897.0	873.2	854.2	830.2	811.2	773.1	715.7	658.6	591.8	524.8
70°	663.3	658.6	653.6	620.3	601.2	577.5	548.8	510.6	467.7	420.0	357.9
72.5°	477.1	477.1	462.9	448.6	429.5	410.3	381.8	357.9	319.7	286.4	243.3
75°	305.4	300.7	300.7	276.8	276.8	248.1	229.0	214.6	195.6	176.6	138.5
77.5°	219.6	214.6	209.9	200.4	190.9	181.2	167.0	147.9	133.5	114.5	100.1
80°	147.9	138.5	133.5	133.5	119.2	114.5	119.2	90.8	85.8	71.6	62.1
82.5°	90.8	90.8	85.8	85.8	81.1	76.4	62.1	62.1	57.4	52.4	43.0
85°	47.7	62.1	43.0	47.7	43.0	47.7	43.0	33.4	28.7	23.7	23.7
87.5°	28.7	19.0	19.0	28.7	23.7	19.0	19.0	19.0	14.3	9.7	9.7
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: P250280

CATALOG NUMBER: LD8B200D010 ER8B200927 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	10211.7	10211.7	10211.7	10211.7	10211.7	10211.7	10211.7	10211.7	10211.7	10211.7	10211.7
2.5°	10054.4	10087.8	10082.8	10125.9	10140.2	10173.6	10173.6	10197.3	10211.7	10245.2	10273.7
5°	9815.7	9868.2	9882.6	9935.0	9978.0	10030.4	10063.8	10116.2	10164.0	10235.7	10302.4
7.5°	9667.8	9710.7	9739.4	9801.4	9849.2	9906.3	9963.7	10035.1	10101.9	10188.0	10283.4
10°	9596.1	9653.5	9696.4	9758.4	9815.7	9877.8	9935.0	10016.1	10092.5	10202.3	10307.1
12.5°	9577.1	9643.8	9696.4	9782.3	9839.5	9906.3	9973.1	10063.8	10144.9	10259.4	10378.9
15°	9577.1	9667.8	9739.4	9834.8	9901.6	9987.4	10059.1	10149.6	10240.4	10359.6	10474.1
17.5°	9558.0	9667.8	9758.4	9868.2	9954.0	10040.1	10130.6	10216.6	10311.9	10426.6	10555.2
20°	9481.6	9620.1	9729.7	9858.6	9949.3	10044.8	10135.5	10230.8	10331.1	10450.4	10560.2
22.5°	9348.1	9510.3	9634.5	9772.8	9877.8	9973.1	10063.8	10159.3	10269.1	10383.5	10498.1
25°	9171.6	9324.1	9457.9	9600.9	9705.9	9810.8	9896.8	10006.6	10106.8	10216.6	10307.1
27.5°	8904.2	9066.4	9195.3	9343.4	9438.6	9539.0	9610.5	9701.2	9796.7	9887.3	9958.9
30°	8503.5	8651.4	8785.0	8918.6	9013.9	9085.7	9161.9	9233.6	9295.6	9357.5	9419.6
32.5°	7916.4	8050.2	8179.1	8302.9	8379.3	8441.4	8498.6	8541.6	8575.0	8608.4	8613.1
35°	7110.1	7219.8	7300.9	7410.7	7482.4	7539.5	7539.5	7558.5	7553.8	7539.5	7525.1
37.5°	6208.2	6251.1	6284.5	6327.4	6332.2	6332.2	6303.7	6279.8	6241.6	6231.9	6203.4
40°	5268.2	5210.9	5167.8	5110.7	5077.2	5005.6	4943.7	4900.7	4838.6	4829.2	4819.6
42.5°	4375.7	4242.2	4122.9	4022.8	3908.2	3807.9	3717.3	3650.5	3602.8	3597.9	3602.8
45°	3650.5	3497.7	3321.1	3182.8	3054.0	2930.0	2810.7	2729.6	2686.5	2676.9	2686.5
47.5°	3101.7	2925.2	2753.3	2595.8	2457.6	2319.1	2199.8	2090.0	2037.6	2023.2	2018.6
50°	2667.5	2486.2	2304.7	2142.5	1989.9	1851.4	1703.5	1598.6	1531.8	1507.8	1488.8
52.5°	2242.8	2080.6	1894.4	1727.4	1574.7	1412.4	1259.8	1140.4	1073.6	1045.1	1025.9
55°	1870.6	1708.4	1536.5	1374.3	1212.1	1049.9	897.0	782.6	711.0	677.6	653.6
57.5°	1493.6	1340.9	1193.1	1030.7	897.0	739.7	586.9	486.7	424.7	386.6	367.5
60°	1154.7	1035.4	906.6	773.1	644.3	515.4	391.3	295.8	248.1	219.6	195.6
62.5°	873.2	773.1	687.0	572.5	472.4	362.6	267.3	190.9	147.9	124.1	114.5
65°	629.9	553.5	477.1	405.6	334.1	253.0	181.2	124.1	85.8	71.6	66.8
67.5°	448.6	386.6	329.2	281.5	229.0	181.2	128.8	85.8	66.8	57.4	52.4
70°	314.9	267.3	229.0	186.2	152.7	119.2	100.1	62.1	38.1	43.0	33.4
72.5°	209.9	176.6	157.5	128.8	104.8	85.8	62.1	43.0	43.0	33.4	28.7
75°	114.5	104.8	81.1	62.1	52.4	47.7	19.0	9.7	4.7	14.3	4.7
77.5°	81.1	71.6	62.1	52.4	43.0	33.4	19.0	19.0	14.3	19.0	9.7
80°	52.4	43.0	38.1	38.1	23.7	14.3	9.7	9.7	14.3	4.7	4.7
82.5°	33.4	28.7	23.7	23.7	23.7	14.3	14.3	14.3	14.3	9.7	9.7
85°	19.0	14.3	9.7	9.7	4.7	9.7	0.0	4.7	4.7	0.0	0.0
87.5°	9.7	4.7	4.7	4.7	4.7	0.0	0.0	4.7	0.0	4.7	0.0
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: P250280

CATALOG NUMBER: LD8B200D010 ER8B200927 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	10211.7	10211.7	10211.7	10211.7	10211.7	10211.7	10211.7	10211.7	10211.7	10211.7	10211.7
2.5°	10292.8	10311.9	10335.8	10354.9	10397.9	10407.4	10426.6	10445.6	10460.0	10474.1	10479.0
5°	10359.6	10431.3	10498.1	10569.6	10660.3	10722.4	10793.9	10855.9	10918.0	10970.4	11008.6
7.5°	10378.9	10488.5	10588.8	10712.8	10846.4	10961.0	11080.2	11199.5	11323.6	11419.1	11500.2
10°	10416.9	10550.5	10679.4	10827.2	10999.1	11151.8	11299.6	11457.2	11614.7	11748.3	11867.6
12.5°	10483.8	10631.7	10770.1	10932.3	11108.9	11280.6	11442.8	11619.4	11786.5	11934.4	12068.0
15°	10593.6	10731.8	10865.6	11018.1	11194.8	11352.3	11514.5	11686.2	11853.3	12006.0	12130.1
17.5°	10665.0	10793.9	10927.5	11065.9	11213.8	11357.0	11509.6	11662.4	11815.1	11953.5	12068.0
20°	10665.0	10789.2	10889.3	11013.5	11151.8	11275.9	11400.0	11533.6	11667.2	11781.7	11891.5
22.5°	10579.2	10698.4	10774.8	10870.3	10989.6	11094.6	11161.4	11309.3	11409.4	11509.6	11590.8
25°	10378.9	10464.8	10526.7	10593.6	10689.0	10760.5	10817.9	10903.7	11003.8	11042.1	11099.2
27.5°	10016.1	10078.2	10111.5	10125.9	10173.6	10211.7	10221.3	10259.4	10302.4	10311.9	10335.8
30°	9443.6	9448.2	9433.9	9429.2	9405.2	9376.8	9371.8	9367.1	9348.1	9329.1	9333.8
32.5°	8579.7	8556.0	8498.6	8436.7	8374.6	8307.9	8269.5	8221.8	8193.2	8164.7	8131.3
35°	7463.1	7406.0	7324.9	7248.4	7176.9	7124.3	7038.4	7009.8	6981.3	6943.0	6933.6
37.5°	6150.8	6117.5	6041.0	5983.9	5945.8	5921.9	5878.8	5850.3	5850.3	5836.0	5826.4
40°	4795.7	4786.2	4757.5	4771.9	4752.8	4762.2	4757.5	4748.0	4771.9	4771.9	4781.5
42.5°	3597.9	3602.8	3617.1	3626.6	3655.2	3660.0	3683.9	3683.9	3698.2	3712.4	3722.1
45°	2676.9	2696.2	2696.2	2715.2	2743.9	2748.6	2758.0	2762.9	2772.3	2796.3	2805.8
47.5°	2008.9	2013.6	2013.6	2018.6	2027.9	2037.6	2032.9	2037.6	2051.9	2042.3	2051.9
50°	1484.1	1488.8	1474.4	1460.1	1474.4	1474.4	1469.8	1455.4	1469.8	1450.7	1460.1
52.5°	1011.7	1006.8	992.5	997.4	987.8	983.0	983.0	973.5	973.5	973.5	954.3
55°	639.6	639.6	629.9	629.9	625.2	615.6	610.9	605.9	601.2	596.5	596.5
57.5°	357.9	362.6	348.4	343.6	348.4	343.6	334.1	334.1	334.1	319.7	329.2
60°	195.6	190.9	186.2	181.2	176.6	181.2	181.2	171.9	171.9	171.9	176.6
62.5°	104.8	104.8	100.1	100.1	95.5	95.5	104.8	90.8	95.5	90.8	95.5
65°	57.4	71.6	52.4	52.4	66.8	62.1	57.4	57.4	62.1	52.4	57.4
67.5°	62.1	43.0	38.1	43.0	38.1	38.1	38.1	47.7	43.0	33.4	43.0
70°	28.7	33.4	33.4	23.7	38.1	19.0	33.4	19.0	28.7	23.7	28.7
72.5°	28.7	28.7	28.7	19.0	28.7	19.0	23.7	23.7	19.0	19.0	28.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.7	9.7	4.7	4.7	4.7	4.7	9.7	9.7	9.7	0.0	4.7
80°	9.7	9.7	0.0	4.7	0.0	0.0	4.7	0.0	4.7	0.0	9.7
82.5°	4.7	9.7	4.7	4.7	9.7	9.7	9.7	4.7	4.7	4.7	4.7
85°	0.0	4.7	0.0	0.0	0.0	0.0	9.7	0.0	0.0	0.0	4.7
87.5°	0.0	4.7	0.0	0.0	0.0	0.0	4.7	4.7	0.0	0.0	0.0
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: P250280

CATALOG NUMBER: LD8B200D010 ER8B200927 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	10211.7	10211.7	10211.7	10211.7
2.5°	10483.8	10488.5	10498.1	10493.3
5°	11037.3	11075.5	11094.6	11089.9
7.5°	11557.4	11624.3	11662.4	11662.4
10°	11958.2	12034.6	12091.7	12101.4
12.5°	12172.9	12258.9	12335.3	12316.1
15°	12234.9	12321.0	12397.2	12382.9
17.5°	12163.5	12249.3	12306.6	12297.0
20°	11967.9	12039.3	12096.7	12091.7
22.5°	11662.4	11724.5	11772.2	11767.3
25°	11147.1	11190.0	11228.2	11209.1
27.5°	10354.9	10369.2	10393.0	10364.5
30°	9300.4	9309.8	9319.4	9314.7
32.5°	8117.0	8112.0	8102.6	8093.0
35°	6919.2	6919.2	6923.9	6895.2
37.5°	5831.1	5826.4	5840.8	5826.4
40°	4790.9	4786.2	4805.2	4781.5
42.5°	3736.4	3750.8	3755.4	3755.4
45°	2810.7	2815.4	2820.2	2820.2
47.5°	2051.9	2056.6	2080.6	2051.9
50°	1450.7	1455.4	1460.1	1450.7
52.5°	959.1	964.0	959.1	944.8
55°	586.9	591.8	591.8	591.8
57.5°	314.9	319.7	319.7	314.9
60°	171.9	167.0	171.9	162.2
62.5°	90.8	100.1	95.5	85.8
65°	57.4	57.4	57.4	66.8
67.5°	47.7	38.1	43.0	33.4
70°	28.7	33.4	33.4	23.7
72.5°	23.7	23.7	23.7	28.7
75°	0.0	0.0	0.0	0.0
77.5°	9.7	9.7	9.7	4.7
80°	4.7	0.0	4.7	0.0
82.5°	4.7	4.7	9.7	4.7
85°	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)