

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: P248406

Luminaire Tested: **LD8B200D010 ER8B200940 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248406
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200940 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 4000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20227.0 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

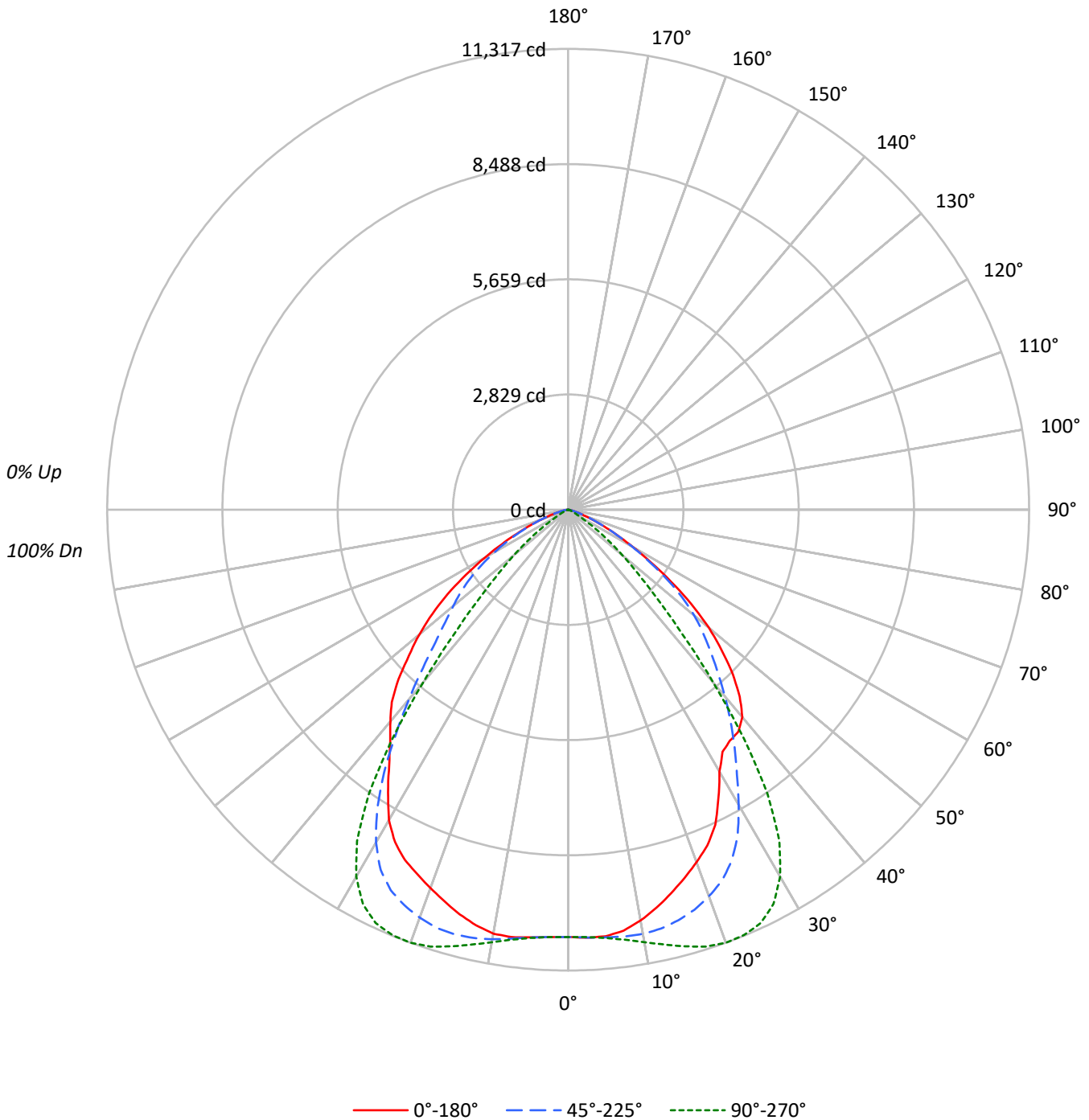
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248406

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBDW0LI

Luminous Intensity Polar Plot





TEST NUMBER: P248406

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBDW0LI

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	92	90					90			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62					62			
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56					56			
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50					50			
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45					45			
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41					41			
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38					38			
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	323569	323569	323569
5°	325495	326702	326355
10°	320710	337631	331002
15°	311337	354364	328403
20°	302301	371384	324416
25°	290692	380896	322909
30°	264551	370456	313335
35°	260611	320996	288287
40°	267693	222628	273296
45°	249200	134556	256976
50°	216156	83094	228984
55°	165881	43418	194332
60°	113009	17515	146670
65°	70302	8938	101188
70°	38164	5527	61768
75°	19909	2645	36505
80°	8897	2983	19765
85°	5944	1981	17726



TEST NUMBER: P248406

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBDW0LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1009.1	5.0
10°-20°	2989.4	14.8
20°-30°	4560.5	22.5
30°-40°	4759.0	23.5
40°-50°	3574.6	17.7
50°-60°	2199.4	10.9
60°-70°	895.1	4.4
70°-80°	210.9	1.0
80°-90°	29.0	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°	8559.0	42.3
0°-40°	13318.0	65.8
0°-60°	19092.0	94.4
0°-90°	20227.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20227.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10493	10493	10493	10493	10493	
5°	10515	10543	10554	10543	10543	995
15°	9752	10437	11100	10794	10287	2747
25°	8544	9502	11195	10309	9491	3884
35°	6923	7118	8527	7881	7658	4371
45°	5714	4946	3086	4606	5893	4360
55°	3086	2930	808	2930	3615	2774
65°	964	975	122	1309	1387	1005
75°	167	167	22	295	306	201
85°	17	17	6	39	50	24
90°	0	0	0	0	0	



TEST NUMBER: P248406

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBDW0LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	10493.1	10493.1	10493.1	10493.1	10493.1	10493.1	10493.1	10493.1	10493.1	10493.1	10493.1
2.5°	10521.0	10504.2	10521.0	10521.0	10526.6	10515.4	10521.0	10526.6	10515.4	10515.4	10515.4
5°	10515.4	10504.2	10515.4	10509.8	10521.0	10521.0	10532.2	10532.2	10543.2	10543.2	10560.0
7.5°	10426.3	10404.1	10426.3	10443.0	10454.1	10476.4	10504.2	10526.6	10548.8	10571.1	10598.9
10°	10242.4	10242.4	10259.2	10292.6	10326.0	10365.0	10415.1	10470.8	10526.6	10576.6	10626.7
12.5°	10014.2	9997.4	10030.8	10075.4	10125.5	10186.8	10264.8	10348.3	10437.4	10537.6	10615.7
15°	9752.4	9735.6	9774.6	9819.2	9880.5	9969.6	10064.3	10175.7	10303.8	10437.4	10565.6
17.5°	9485.0	9479.4	9518.4	9579.7	9629.9	9724.4	9847.1	9980.6	10125.5	10303.8	10470.8
20°	9212.2	9206.6	9245.6	9295.7	9362.5	9451.6	9574.1	9730.0	9902.7	10103.3	10298.2
22.5°	8928.0	8933.6	8967.0	9022.7	9078.5	9173.1	9301.2	9457.2	9646.5	9863.7	10080.9
25°	8543.7	8515.9	8560.5	8616.2	8710.8	8788.8	8911.4	9078.5	9273.4	9501.8	9758.0
27.5°	7986.8	7981.2	8020.3	8070.3	8153.8	8248.5	8382.2	8554.9	8761.0	9011.6	9262.2
30°	7429.8	7441.0	7457.7	7507.9	7563.5	7658.2	7791.9	7936.7	8131.6	8371.1	8638.4
32.5°	7051.1	7051.1	7073.4	7106.8	7145.8	7195.9	7290.6	7396.4	7546.8	7713.9	7908.8
35°	6923.0	6900.7	6923.0	6928.5	6934.1	6945.3	6961.9	6995.5	7045.5	7118.0	7190.3
37.5°	6867.4	6850.6	6850.6	6828.4	6800.4	6767.1	6722.5	6672.3	6616.7	6544.2	6488.6
40°	6650.1	6639.0	6627.8	6605.6	6544.2	6477.5	6405.0	6288.0	6159.9	5981.7	5803.6
42.5°	6232.4	6221.3	6215.7	6171.1	6115.4	6037.4	5953.9	5831.4	5669.9	5441.5	5185.3
45°	5714.4	5692.1	5675.5	5636.5	5597.4	5530.6	5452.6	5341.2	5179.7	4945.8	4639.5
47.5°	5112.9	5101.7	5096.1	5079.5	5040.5	5001.4	4951.4	4862.3	4717.4	4494.6	4177.2
50°	4505.8	4483.6	4494.6	4489.2	4472.4	4444.6	4411.1	4349.9	4238.4	4037.9	3748.3
52.5°	3809.5	3809.5	3804.1	3820.7	3826.3	3820.7	3826.3	3759.5	3664.8	3514.4	3269.3
55°	3085.5	3085.5	3102.2	3124.6	3146.8	3152.4	3146.8	3119.0	3052.1	2929.6	2712.4
57.5°	2406.0	2395.0	2428.4	2461.7	2484.1	2506.3	2489.5	2467.3	2428.4	2328.1	2161.0
60°	1832.4	1832.4	1854.6	1877.0	1899.2	1921.5	1915.9	1910.4	1877.0	1810.1	1676.5
62.5°	1347.8	1353.4	1353.4	1370.1	1392.4	1414.7	1431.3	1414.7	1397.9	1353.4	1264.3
65°	963.5	957.9	963.5	980.3	997.0	1019.2	1030.4	1024.8	1008.1	974.7	907.9
67.5°	646.1	640.5	662.7	668.3	679.5	701.8	696.2	701.8	696.2	668.3	612.7
70°	423.3	412.1	423.3	417.7	434.5	440.0	451.1	456.7	451.1	434.5	417.7
72.5°	261.8	256.2	261.8	267.4	273.0	278.4	289.6	289.6	284.0	273.0	250.6
75°	167.1	150.3	155.9	144.9	155.9	155.9	167.1	172.7	167.1	167.1	155.9
77.5°	100.3	100.3	100.3	100.3	100.3	100.3	100.3	105.9	111.3	100.3	94.7
80°	50.1	50.1	55.7	55.7	55.7	61.3	55.7	55.7	55.7	61.3	44.6
82.5°	39.0	33.4	33.4	33.4	39.0	33.4	33.4	33.4	33.4	33.4	33.4
85°	16.8	22.2	16.8	11.2	16.8	16.8	22.2	16.8	16.8	16.8	22.2
87.5°	5.6	5.6	0.0	0.0	0.0	5.6	0.0	5.6	5.6	11.2	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: P248406

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	10493.1	10493.1	10493.1	10493.1	10493.1	10493.1	10493.1	10493.1	10493.1	10493.1	10493.1
2.5°	10521.0	10509.8	10509.8	10504.2	10515.4	10504.2	10509.8	10504.2	10504.2	10515.4	10504.2
5°	10560.0	10565.6	10554.4	10548.8	10565.6	10565.6	10565.6	10554.4	10554.4	10560.0	10554.4
7.5°	10615.7	10626.7	10632.3	10637.9	10649.1	10654.7	10654.7	10649.1	10643.5	10660.3	10637.9
10°	10676.9	10693.7	10727.0	10743.8	10771.6	10771.6	10782.8	10782.8	10771.6	10782.8	10777.2
12.5°	10654.7	10754.8	10810.6	10849.6	10888.5	10921.9	10933.1	10938.7	10933.1	10955.4	10933.1
15°	10693.7	10777.2	10866.3	10933.1	11005.5	11044.4	11055.6	11100.2	11111.3	11116.9	11083.5
17.5°	10632.3	10782.8	10877.4	10977.7	11083.5	11155.9	11222.7	11250.6	11256.2	11267.3	11222.7
20°	10493.1	10660.3	10805.0	10949.9	11072.4	11183.7	11239.5	11317.4	11295.2	11339.7	11278.4
22.5°	10303.8	10493.1	10676.9	10866.3	10994.4	11128.1	11245.0	11300.6	11328.6	11328.6	11261.7
25°	10003.0	10225.8	10426.3	10621.2	10816.2	10977.7	11111.3	11194.9	11211.6	11206.1	11128.1
27.5°	9535.1	9774.6	10008.6	10231.4	10470.8	10660.3	10816.2	10916.3	10944.3	10944.3	10860.7
30°	8889.1	9145.3	9373.7	9640.9	9886.1	10097.7	10314.9	10404.1	10454.1	10454.1	10359.5
32.5°	8120.4	8337.7	8549.3	8811.1	9078.5	9317.9	9524.0	9646.5	9707.8	9702.2	9618.7
35°	7285.1	7390.8	7552.4	7747.3	7986.8	8209.6	8410.0	8527.1	8632.8	8627.3	8549.3
37.5°	6449.5	6421.7	6438.5	6510.9	6661.2	6817.2	6973.1	7084.6	7173.6	7212.7	7195.9
40°	5630.9	5486.0	5346.8	5296.7	5307.8	5363.5	5447.1	5530.6	5630.9	5681.0	5703.3
42.5°	4895.7	4650.6	4405.5	4221.8	4115.9	4082.5	4121.5	4149.3	4210.6	4283.0	4355.5
45°	4305.3	3976.7	3653.6	3369.6	3191.4	3085.5	3063.3	3085.5	3119.0	3191.4	3286.1
47.5°	3820.7	3436.4	3074.4	2756.9	2495.1	2356.0	2317.0	2305.8	2339.2	2406.0	2534.1
50°	3391.8	3007.5	2606.6	2238.9	1966.1	1810.1	1754.5	1732.1	1771.1	1821.2	1938.2
52.5°	2924.0	2545.3	2133.2	1776.7	1492.7	1331.2	1269.8	1236.5	1258.7	1325.6	1442.5
55°	2417.2	2066.3	1693.1	1325.6	1052.6	902.3	829.8	807.6	829.8	902.3	1019.2
57.5°	1910.4	1615.2	1303.2	957.9	712.9	562.6	490.1	467.8	529.2	557.0	679.5
60°	1492.7	1253.2	985.8	701.8	490.1	373.1	300.8	284.0	311.9	362.0	462.3
62.5°	1119.5	969.1	757.4	501.2	362.0	239.4	200.5	183.8	200.5	239.4	317.5
65°	813.2	696.2	529.2	367.5	245.0	178.3	133.7	122.5	139.3	167.1	234.0
67.5°	557.0	467.8	367.5	256.2	167.1	111.3	94.7	94.7	100.3	122.5	172.7
70°	362.0	306.4	234.0	167.1	111.3	83.5	72.4	61.3	72.4	89.1	116.9
72.5°	228.4	194.9	150.3	116.9	83.5	61.3	50.1	44.6	55.7	66.8	89.1
75°	139.3	105.9	78.0	61.3	44.6	44.6	44.6	22.2	27.8	44.6	55.7
77.5°	83.5	72.4	61.3	50.1	39.0	22.2	22.2	22.2	27.8	33.4	50.1
80°	44.6	39.0	27.8	27.8	22.2	16.8	22.2	16.8	11.2	27.8	33.4
82.5°	27.8	22.2	22.2	22.2	27.8	11.2	16.8	11.2	16.8	22.2	16.8
85°	16.8	16.8	16.8	11.2	27.8	11.2	11.2	5.6	5.6	11.2	11.2
87.5°	0.0	5.6	5.6	0.0	5.6	0.0	5.6	5.6	5.6	5.6	5.6
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: P248406

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	10493.1	10493.1	10493.1	10493.1	10493.1	10493.1	10493.1	10493.1	10493.1	10493.1	10493.1
2.5°	10509.8	10504.2	10509.8	10504.2	10504.2	10504.2	10509.8	10509.8	10504.2	10504.2	10515.4
5°	10554.4	10554.4	10554.4	10548.8	10543.2	10543.2	10554.4	10554.4	10537.6	10554.4	10554.4
7.5°	10649.1	10632.3	10649.1	10626.7	10615.7	10621.2	10626.7	10615.7	10604.5	10610.1	10610.1
10°	10771.6	10754.8	10754.8	10738.2	10721.5	10710.3	10699.2	10671.3	10643.5	10637.9	10615.7
12.5°	10916.3	10888.5	10871.9	10838.4	10810.6	10771.6	10738.2	10693.7	10637.9	10598.9	10560.0
15°	11061.2	11016.6	10977.7	10921.9	10860.7	10793.8	10721.5	10649.1	10560.0	10482.0	10415.1
17.5°	11178.1	11116.9	11044.4	10955.4	10866.3	10766.0	10660.3	10554.4	10426.3	10326.0	10248.0
20°	11217.1	11128.1	11033.4	10916.3	10799.4	10660.3	10526.6	10387.3	10242.4	10136.7	10047.6
22.5°	11167.1	11061.2	10944.3	10821.8	10665.7	10515.4	10359.5	10197.9	10069.8	9925.0	9841.5
25°	11027.8	10899.7	10771.6	10626.7	10476.4	10309.3	10142.3	9975.2	9819.2	9741.2	9635.4
27.5°	10743.8	10604.5	10465.3	10314.9	10142.3	9975.2	9802.5	9640.9	9507.3	9401.5	9340.3
30°	10242.4	10080.9	9919.5	9758.0	9607.5	9434.9	9273.4	9139.7	9006.0	8922.4	8861.2
32.5°	9473.8	9329.1	9167.6	9011.6	8872.4	8727.6	8593.9	8476.9	8382.2	8326.5	8281.9
35°	8438.0	8293.1	8170.6	8059.2	7942.2	7881.0	7797.5	7730.5	7691.6	7669.4	7663.8
37.5°	7134.6	7051.1	7012.1	6989.9	6967.5	6950.9	6961.9	6989.9	7012.1	7051.1	7095.6
40°	5742.2	5814.6	5837.0	5914.9	5987.3	6082.0	6187.9	6310.4	6410.6	6538.7	6627.8
42.5°	4472.4	4606.1	4762.0	4929.1	5107.3	5280.0	5491.6	5686.5	5864.8	6026.2	6165.5
45°	3436.4	3642.5	3876.4	4115.9	4355.5	4606.1	4862.3	5101.7	5313.4	5486.0	5630.9
47.5°	2679.0	2907.4	3208.1	3503.3	3792.9	4088.1	4372.1	4622.7	4801.0	4968.0	5096.1
50°	2122.0	2383.8	2712.4	3052.1	3369.6	3681.4	3982.2	4216.2	4394.4	4528.1	4622.7
52.5°	1643.0	1954.9	2289.1	2645.6	2985.3	3325.1	3603.5	3820.7	3965.6	4082.5	4154.9
55°	1225.3	1531.6	1888.1	2255.7	2601.0	2929.6	3191.4	3380.8	3508.9	3575.7	3614.7
57.5°	885.5	1164.1	1520.5	1888.1	2199.9	2511.9	2723.5	2896.2	2968.6	3007.5	3024.3
60°	646.1	902.3	1219.7	1537.2	1832.4	2083.0	2266.9	2383.8	2439.5	2461.7	2456.2
62.5°	473.4	696.2	969.1	1236.5	1475.9	1682.0	1826.8	1904.8	1932.7	1943.7	1927.1
65°	362.0	534.6	768.6	974.7	1158.5	1308.8	1414.7	1464.9	1481.5	1475.9	1464.9
67.5°	267.4	401.1	573.7	729.6	863.3	980.3	1036.0	1080.6	1091.6	1075.0	1058.2
70°	189.4	295.2	417.7	523.6	623.7	690.7	751.9	757.4	757.4	751.9	740.8
72.5°	133.7	206.1	284.0	356.5	417.7	467.8	490.1	506.8	501.2	495.6	484.6
75°	89.1	128.1	206.1	222.8	278.4	295.2	317.5	317.5	323.0	306.4	306.4
77.5°	55.7	89.1	122.5	144.9	167.1	189.4	200.5	200.5	206.1	200.5	200.5
80°	33.4	55.7	66.8	100.3	100.3	116.9	122.5	128.1	116.9	133.7	116.9
82.5°	22.2	33.4	50.1	50.1	61.3	72.4	72.4	78.0	78.0	72.4	72.4
85°	16.8	22.2	27.8	33.4	33.4	39.0	33.4	33.4	39.0	44.6	39.0
87.5°	5.6	11.2	5.6	11.2	11.2	22.2	16.8	16.8	16.8	22.2	22.2
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: P248406

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	10493.1	10493.1	10493.1	10493.1
2.5°	10504.2	10509.8	10504.2	10504.2
5°	10554.4	10548.8	10554.4	10543.2
7.5°	10593.4	10593.4	10587.8	10587.8
10°	10593.4	10571.1	10571.1	10571.1
12.5°	10509.8	10482.0	10465.3	10454.1
15°	10365.0	10314.9	10292.6	10287.0
17.5°	10175.7	10131.1	10103.3	10086.5
20°	9958.4	9913.9	9880.5	9886.1
22.5°	9769.0	9719.0	9696.6	9685.5
25°	9579.7	9518.4	9501.8	9490.6
27.5°	9273.4	9240.0	9223.2	9206.6
30°	8805.5	8788.8	8761.0	8799.9
32.5°	8265.3	8237.4	8215.2	8231.9
35°	7669.4	7652.6	7669.4	7658.2
37.5°	7123.6	7140.2	7162.5	7173.6
40°	6694.7	6755.9	6778.2	6789.3
42.5°	6265.8	6338.2	6382.8	6410.6
45°	5736.7	5809.0	5859.2	5892.7
47.5°	5190.9	5252.2	5302.2	5296.7
50°	4695.2	4728.6	4750.8	4773.2
52.5°	4193.8	4193.8	4199.4	4199.4
55°	3625.8	3614.7	3609.1	3614.7
57.5°	3002.0	2990.9	2985.3	2968.6
60°	2433.9	2400.5	2378.2	2378.2
62.5°	1904.8	1865.8	1849.2	1843.6
65°	1431.3	1425.8	1392.4	1386.8
67.5°	1036.0	1013.6	991.4	997.0
70°	729.6	696.2	696.2	685.1
72.5°	473.4	456.7	451.1	451.1
75°	295.2	295.2	284.0	306.4
77.5°	194.9	194.9	189.4	194.9
80°	116.9	116.9	116.9	111.3
82.5°	72.4	78.0	72.4	72.4
85°	39.0	44.6	33.4	50.1
87.5°	22.2	27.8	22.2	27.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)