

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: P249766

Luminaire Tested: **LD8B120D010 ER8B120950 8LBSW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249766
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: LD8B120D010 ER8B120950 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 5000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12020.0 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

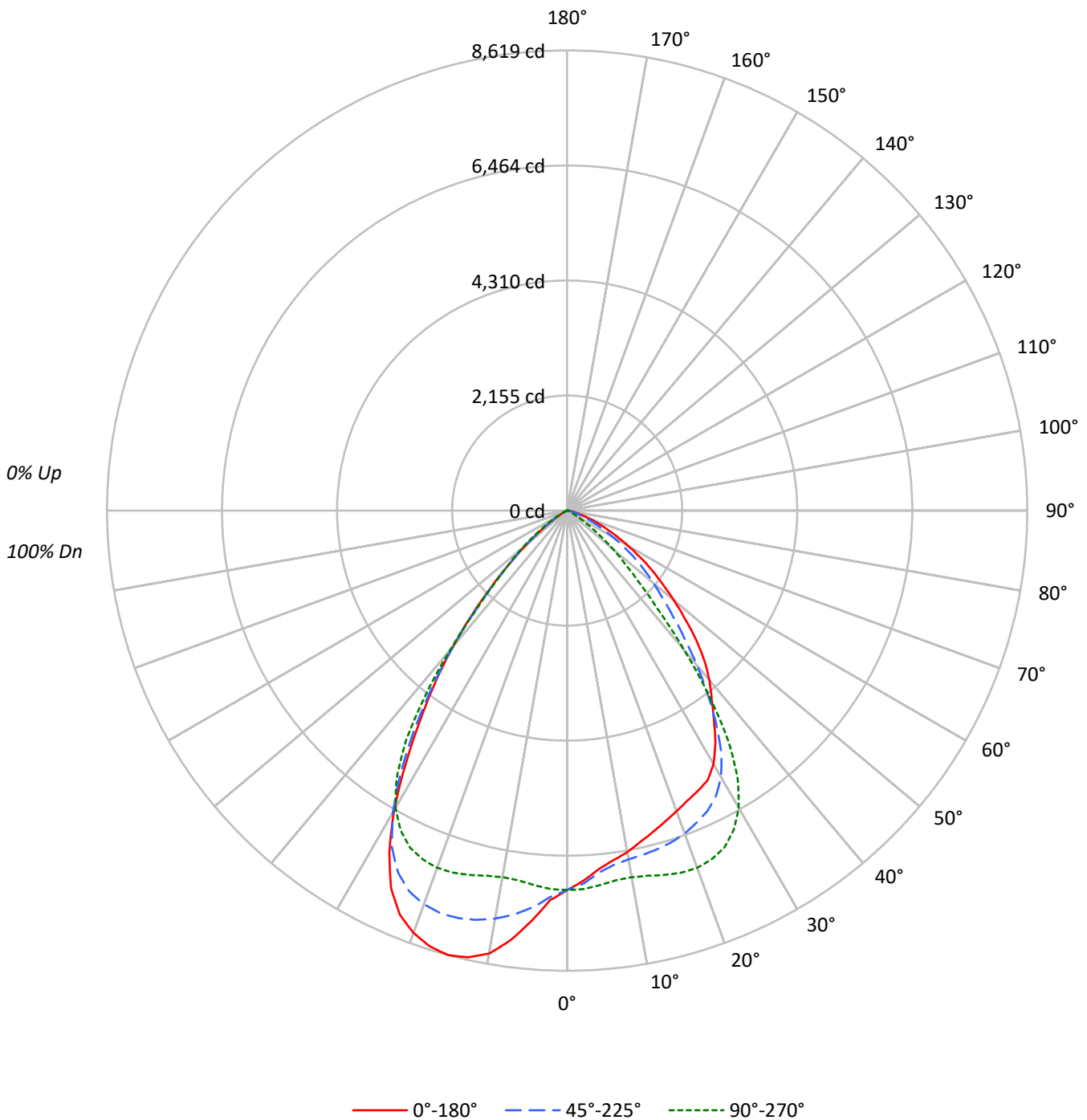
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P249766

CATALOG NUMBER: LD8B120D010 ER8B120950 8LBSW0LI

Luminous Intensity Polar Plot





TEST NUMBER: P249766

CATALOG NUMBER: LD8B120D010 ER8B120950 8LBSW0LI

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	100	100	100	100	100		
1	112	109	106	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91	91	91	91	91	91	91		
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82	82	82	82	82	82	82		
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73	73	73	73	73	73	73		
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66	66	66	66	66	66	66		
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60	60	60	60	60	60	60		
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54	54	54	54	54	54	54		
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49	49	49	49	49	49	49		
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45	45	45	45	45	45	45		
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42	42	42	42	42	42	42		
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38	38	38	38	38	38	38		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	219169	219169	219169
5°	208801	217948	238925
10°	203415	218285	263732
15°	198801	225521	275141
20°	196613	233668	276174
25°	197074	236968	265442
30°	195246	228834	230842
35°	180414	198039	180662
40°	166716	137302	133965
45°	148454	82849	85596
50°	124912	53375	48438
55°	103921	29278	22144
60°	81112	12698	6963
65°	59860	6304	3393
70°	41627	3895	1488
75°	25330	798	0
80°	18273	1190	0
85°	11746	1168	0



TEST NUMBER: P249766

CATALOG NUMBER: LD8B120D010 ER8B120950 8LBSW0LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	683.3	5.7
10°-20°	2044.9	17.0
20°-30°	3131.6	26.1
30°-40°	3070.0	25.5
40°-50°	1848.8	15.4
50°-60°	850.9	7.1
60°-70°	298.9	2.5
70°-80°	78.2	0.7
80°-90°	13.3	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°	5859.8	48.8
0°-40°	8929.9	74.3
0°-60°	11629.6	96.8
0°-90°	12020.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12020.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7108	7108	7108	7108	7108	
5°	6746	6809	7041	7463	7719	637
15°	6227	6563	7064	7901	8619	1759
25°	5792	6211	6965	7489	7802	2668
35°	4793	4859	5261	4959	4799	3002
45°	3404	2803	1900	1913	1963	2610
55°	1933	1531	545	428	412	1725
65°	820	568	86	43	46	836
75°	213	123	7	0	0	258
85°	33	16	3	0	0	46
90°	0	0	0	0	0	



TEST NUMBER: P249766

CATALOG NUMBER: LD8B120D010 ER8B120950 8LBSW0LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	7107.5	7107.5	7107.5	7107.5	7107.5	7107.5	7107.5	7107.5	7107.5	7107.5	7107.5
2.5°	6941.4	6948.1	6948.1	6948.1	6961.3	6964.7	6961.3	6964.7	6971.3	6994.5	7004.5
5°	6745.5	6735.5	6742.2	6738.8	6755.4	6765.4	6758.7	6768.7	6791.9	6808.6	6825.2
7.5°	6606.0	6606.0	6606.0	6612.6	6622.6	6642.5	6639.2	6645.8	6669.0	6692.3	6715.5
10°	6496.4	6493.1	6493.1	6509.6	6522.9	6546.1	6552.8	6572.8	6602.6	6632.5	6659.1
12.5°	6353.5	6356.9	6373.5	6390.2	6420.0	6456.5	6476.4	6503.1	6549.6	6599.3	6629.3
15°	6227.3	6230.6	6244.0	6277.1	6313.7	6356.9	6400.0	6443.2	6499.7	6562.8	6616.0
17.5°	6104.4	6107.7	6117.7	6154.3	6200.8	6257.3	6307.0	6363.5	6436.6	6509.6	6576.1
20°	5991.5	5988.2	6004.8	6038.0	6097.9	6150.9	6200.8	6267.3	6347.0	6436.6	6512.9
22.5°	5881.9	5881.9	5898.6	5931.8	5985.0	6038.0	6091.2	6160.9	6240.6	6327.0	6416.7
25°	5792.2	5788.9	5812.2	5828.8	5868.6	5921.8	5978.3	6034.7	6114.4	6210.8	6297.1
27.5°	5696.0	5692.7	5696.0	5715.9	5752.4	5792.2	5835.4	5885.3	5951.7	6031.4	6114.4
30°	5483.4	5486.7	5486.7	5503.4	5523.3	5566.4	5589.6	5639.5	5699.2	5765.7	5838.8
32.5°	5167.9	5171.2	5171.2	5177.9	5194.4	5214.4	5234.3	5270.8	5317.3	5373.8	5440.2
35°	4792.6	4792.6	4789.2	4792.6	4802.6	4802.6	4819.1	4802.6	4825.8	4859.1	4908.8
37.5°	4447.2	4440.5	4433.9	4427.2	4417.2	4400.7	4377.4	4337.5	4327.5	4314.3	4317.6
40°	4141.6	4138.3	4118.4	4101.7	4068.5	4028.7	3972.2	3902.5	3846.1	3779.6	3723.2
42.5°	3802.9	3799.5	3782.9	3753.0	3716.5	3656.7	3567.1	3474.1	3361.2	3261.5	3158.6
45°	3404.2	3414.2	3391.0	3357.8	3314.6	3258.1	3158.6	3045.5	2932.6	2803.1	2673.5
47.5°	2989.1	2985.8	2969.2	2949.3	2912.8	2856.3	2789.9	2667.0	2547.4	2427.9	2295.0
50°	2603.8	2590.6	2583.9	2564.0	2540.8	2494.3	2424.5	2324.8	2218.6	2105.7	1982.8
52.5°	2238.6	2238.6	2221.9	2208.6	2188.7	2152.2	2092.4	2012.7	1923.0	1816.7	1687.2
55°	1933.0	1926.3	1909.8	1893.1	1873.1	1849.9	1796.9	1730.4	1634.0	1531.1	1418.2
57.5°	1607.5	1604.1	1597.5	1577.6	1567.6	1544.4	1484.6	1418.2	1335.2	1245.5	1152.4
60°	1315.2	1302.0	1288.6	1275.3	1258.8	1235.5	1195.6	1139.2	1069.4	989.7	896.8
62.5°	1052.9	1072.7	1032.9	1032.9	999.7	979.8	943.3	910.0	836.9	763.9	684.2
65°	820.4	820.4	803.7	790.4	770.5	747.2	710.7	677.5	624.3	567.9	511.4
67.5°	627.8	624.3	607.8	594.5	577.9	564.6	538.1	498.2	458.4	411.9	365.3
70°	461.7	458.4	455.0	431.7	418.5	401.9	382.0	355.4	325.5	292.3	249.1
72.5°	332.1	332.1	322.2	312.2	299.0	285.6	265.8	249.1	222.6	199.3	169.4
75°	212.6	209.3	209.3	192.6	192.6	172.7	159.4	149.4	136.2	122.9	96.4
77.5°	152.8	149.4	146.1	139.4	132.9	126.2	116.2	102.9	93.0	79.7	69.7
80°	102.9	96.4	93.0	93.0	83.0	79.7	83.0	63.2	59.7	49.8	43.2
82.5°	63.2	63.2	59.7	59.7	56.5	53.2	43.2	43.2	39.9	36.5	29.9
85°	33.2	43.2	29.9	33.2	29.9	33.2	29.9	23.2	20.0	16.5	16.5
87.5°	20.0	13.3	13.3	20.0	16.5	13.3	13.3	13.3	10.0	6.7	6.7
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: P249766

CATALOG NUMBER: LD8B120D010 ER8B120950 8LBSW0LI

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	7107.5	7107.5	7107.5	7107.5	7107.5	7107.5	7107.5	7107.5	7107.5	7107.5	7107.5
2.5°	6998.0	7021.2	7017.8	7047.7	7057.7	7080.9	7080.9	7097.5	7107.5	7130.7	7150.7
5°	6831.9	6868.4	6878.3	6914.8	6944.8	6981.3	7004.5	7041.0	7074.2	7124.1	7170.6
7.5°	6728.9	6758.7	6778.7	6821.9	6855.1	6894.9	6934.8	6984.6	7031.0	7090.9	7157.3
10°	6679.0	6718.9	6748.7	6791.9	6831.9	6875.1	6914.8	6971.3	7024.5	7100.9	7173.9
12.5°	6665.8	6712.2	6748.7	6808.6	6848.4	6894.9	6941.4	7004.5	7061.0	7140.7	7223.8
15°	6665.8	6728.9	6778.7	6845.1	6891.6	6951.3	7001.2	7064.3	7127.4	7210.4	7290.1
17.5°	6652.5	6728.9	6791.9	6868.4	6928.1	6988.0	7051.0	7110.9	7177.2	7257.0	7346.5
20°	6599.3	6695.7	6772.0	6861.7	6924.8	6991.3	7054.4	7120.7	7190.6	7273.5	7350.0
22.5°	6506.4	6619.3	6705.7	6801.9	6875.1	6941.4	7004.5	7071.0	7147.4	7227.1	7306.8
25°	6383.5	6489.7	6582.8	6682.3	6755.4	6828.4	6888.3	6964.7	7034.5	7110.9	7173.9
27.5°	6197.4	6310.3	6400.0	6503.1	6569.4	6639.2	6689.0	6752.2	6818.6	6881.6	6931.5
30°	5918.5	6021.5	6114.4	6207.4	6273.8	6323.7	6376.8	6426.7	6469.9	6512.9	6556.1
32.5°	5509.9	5603.0	5692.7	5778.9	5832.1	5875.3	5915.1	5945.0	5968.3	5991.5	5994.8
35°	4948.7	5025.0	5081.5	5157.9	5207.8	5247.6	5247.6	5260.8	5257.6	5247.6	5237.6
37.5°	4321.0	4350.8	4374.0	4404.0	4407.2	4407.2	4387.4	4370.7	4344.2	4337.5	4317.6
40°	3666.7	3626.8	3596.9	3557.1	3533.8	3483.9	3440.9	3410.9	3367.7	3361.2	3354.5
42.5°	3045.5	2952.6	2869.6	2799.9	2720.2	2650.3	2587.3	2540.8	2507.6	2504.2	2507.6
45°	2540.8	2434.5	2311.6	2215.3	2125.6	2039.2	1956.3	1899.8	1869.9	1863.2	1869.9
47.5°	2158.9	2036.0	1916.3	1806.7	1710.5	1614.1	1531.1	1454.7	1418.2	1408.2	1404.9
50°	1856.6	1730.4	1604.1	1491.2	1385.0	1288.6	1185.6	1112.6	1066.2	1049.5	1036.2
52.5°	1561.0	1448.1	1318.5	1202.3	1096.0	983.0	876.8	793.7	747.2	727.4	714.0
55°	1302.0	1189.1	1069.4	956.5	843.6	730.7	624.3	544.6	494.9	471.6	455.0
57.5°	1039.5	933.3	830.3	717.4	624.3	514.8	408.5	338.8	295.6	269.0	255.8
60°	803.7	720.7	631.0	538.1	448.4	358.7	272.3	205.9	172.7	152.8	136.2
62.5°	607.8	538.1	478.2	398.5	328.8	252.4	186.1	132.9	102.9	86.4	79.7
65°	438.4	385.2	332.1	282.3	232.5	176.1	126.2	86.4	59.7	49.8	46.5
67.5°	312.2	269.0	229.1	195.9	159.4	126.2	89.7	59.7	46.5	39.9	36.5
70°	219.1	186.1	159.4	129.6	106.2	83.0	69.7	43.2	26.5	29.9	23.2
72.5°	146.1	122.9	109.6	89.7	73.0	59.7	43.2	29.9	29.9	23.2	20.0
75°	79.7	73.0	56.5	43.2	36.5	33.2	13.3	6.7	3.3	10.0	3.3
77.5°	56.5	49.8	43.2	36.5	29.9	23.2	13.3	13.3	10.0	13.3	6.7
80°	36.5	29.9	26.5	26.5	16.5	10.0	6.7	6.7	10.0	3.3	3.3
82.5°	23.2	20.0	16.5	16.5	16.5	10.0	10.0	10.0	10.0	6.7	6.7
85°	13.3	10.0	6.7	6.7	3.3	6.7	0.0	3.3	3.3	0.0	0.0
87.5°	6.7	3.3	3.3	3.3	3.3	0.0	0.0	3.3	0.0	3.3	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: P249766

CATALOG NUMBER: LD8B120D010 ER8B120950 8LBSW0LI

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	7107.5	7107.5	7107.5	7107.5	7107.5	7107.5	7107.5	7107.5	7107.5	7107.5	7107.5
2.5°	7163.9	7177.2	7193.8	7207.1	7237.0	7243.6	7257.0	7270.3	7280.2	7290.1	7293.5
5°	7210.4	7260.3	7306.8	7356.5	7419.7	7462.9	7512.6	7555.8	7599.0	7635.5	7662.1
7.5°	7223.8	7300.1	7369.9	7456.2	7549.1	7629.0	7712.0	7794.9	7881.3	7947.8	8004.2
10°	7250.3	7343.3	7432.9	7535.9	7655.5	7761.7	7864.7	7974.3	8083.9	8176.9	8260.0
12.5°	7296.8	7399.7	7496.1	7609.0	7731.9	7851.4	7964.3	8087.2	8203.6	8306.5	8399.5
15°	7373.2	7469.4	7562.5	7668.8	7791.7	7901.3	8014.2	8133.7	8250.0	8356.3	8442.7
17.5°	7423.0	7512.6	7605.6	7702.0	7804.9	7904.6	8010.8	8117.2	8223.4	8319.8	8399.5
20°	7423.0	7509.4	7579.1	7665.5	7761.7	7848.1	7934.5	8027.5	8120.4	8200.1	8276.6
22.5°	7363.2	7446.2	7499.4	7565.8	7648.8	7721.9	7768.4	7871.4	7941.1	8010.8	8067.3
25°	7223.8	7283.5	7326.7	7373.2	7439.6	7489.4	7529.3	7589.1	7658.8	7685.4	7725.2
27.5°	6971.3	7014.5	7037.7	7047.7	7080.9	7107.5	7114.2	7140.7	7170.6	7177.2	7193.8
30°	6572.8	6576.1	6566.1	6562.8	6546.1	6526.3	6522.9	6519.6	6506.4	6493.1	6496.4
32.5°	5971.6	5955.0	5915.1	5872.0	5828.8	5782.4	5755.7	5722.5	5702.5	5682.7	5659.5
35°	5194.4	5154.6	5098.2	5045.0	4995.2	4958.6	4898.8	4878.9	4859.1	4832.4	4825.8
37.5°	4281.1	4257.8	4204.6	4164.9	4138.3	4121.7	4091.7	4071.9	4071.9	4061.9	4055.2
40°	3337.8	3331.2	3311.3	3321.3	3308.0	3314.6	3311.3	3304.6	3321.3	3321.3	3328.0
42.5°	2504.2	2507.6	2517.6	2524.1	2544.1	2547.4	2564.0	2564.0	2574.0	2583.9	2590.6
45°	1863.2	1876.6	1876.6	1889.8	1909.8	1913.1	1919.6	1923.0	1929.6	1946.3	1952.8
47.5°	1398.2	1401.5	1401.5	1404.9	1411.5	1418.2	1414.9	1418.2	1428.2	1421.5	1428.2
50°	1032.9	1036.2	1026.2	1016.3	1026.2	1026.2	1023.0	1013.0	1023.0	1009.7	1016.3
52.5°	704.2	700.8	690.8	694.2	687.5	684.2	684.2	677.5	677.5	677.5	664.3
55°	445.1	445.1	438.4	438.4	435.1	428.4	425.2	421.7	418.5	415.2	415.2
57.5°	249.1	252.4	242.5	239.1	242.5	239.1	232.5	232.5	232.5	222.6	229.1
60°	136.2	132.9	129.6	126.2	122.9	126.2	126.2	119.6	119.6	119.6	122.9
62.5°	73.0	73.0	69.7	69.7	66.4	66.4	73.0	63.2	66.4	63.2	66.4
65°	39.9	49.8	36.5	36.5	46.5	43.2	39.9	39.9	43.2	36.5	39.9
67.5°	43.2	29.9	26.5	29.9	26.5	26.5	26.5	33.2	29.9	23.2	29.9
70°	20.0	23.2	23.2	16.5	26.5	13.3	23.2	13.3	20.0	16.5	20.0
72.5°	20.0	20.0	20.0	13.3	20.0	13.3	16.5	16.5	13.3	13.3	20.0
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°	6.7	6.7	3.3	3.3	3.3	3.3	6.7	6.7	6.7	0.0	3.3
80°	6.7	6.7	0.0	3.3	0.0	0.0	3.3	0.0	3.3	0.0	6.7
82.5°	3.3	6.7	3.3	3.3	6.7	6.7	6.7	3.3	3.3	3.3	3.3
85°	0.0	3.3	0.0	0.0	0.0	0.0	6.7	0.0	0.0	0.0	3.3
87.5°	0.0	3.3	0.0	0.0	0.0	0.0	3.3	3.3	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: P249766

CATALOG NUMBER: LD8B120D010 ER8B120950 8LBSW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	7107.5	7107.5	7107.5	7107.5
2.5°	7296.8	7300.1	7306.8	7303.5
5°	7682.0	7708.7	7721.9	7718.7
7.5°	8044.0	8090.6	8117.2	8117.2
10°	8323.0	8376.2	8416.0	8422.7
12.5°	8472.5	8532.3	8585.5	8572.1
15°	8515.7	8575.5	8628.6	8618.6
17.5°	8465.9	8525.6	8565.6	8558.9
20°	8329.7	8379.5	8419.4	8416.0
22.5°	8117.2	8160.4	8193.6	8190.2
25°	7758.4	7788.4	7814.9	7801.6
27.5°	7207.1	7217.1	7233.6	7213.8
30°	6473.1	6479.7	6486.4	6483.1
32.5°	5649.5	5646.1	5639.5	5632.8
35°	4815.9	4815.9	4819.1	4799.2
37.5°	4058.5	4055.2	4065.2	4055.2
40°	3334.5	3331.2	3344.5	3328.0
42.5°	2600.5	2610.5	2613.8	2613.8
45°	1956.3	1959.5	1962.8	1962.8
47.5°	1428.2	1431.4	1448.1	1428.2
50°	1009.7	1013.0	1016.3	1009.7
52.5°	667.5	671.0	667.5	657.6
55°	408.5	411.9	411.9	411.9
57.5°	219.1	222.6	222.6	219.1
60°	119.6	116.2	119.6	112.9
62.5°	63.2	69.7	66.4	59.7
65°	39.9	39.9	39.9	46.5
67.5°	33.2	26.5	29.9	23.2
70°	20.0	23.2	23.2	16.5
72.5°	16.5	16.5	16.5	20.0
75°	0.0	0.0	0.0	0.0
77.5°	6.7	6.7	6.7	3.3
80°	3.3	0.0	3.3	0.0
82.5°	3.3	3.3	6.7	3.3
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)