

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: P250234

Luminaire Tested: **LD8B100D010 ER8B100850 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250234
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: LD8B100D010 ER8B100850 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11231.0 lumens
Efficiency: N/A
Efficacy: 105.7 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

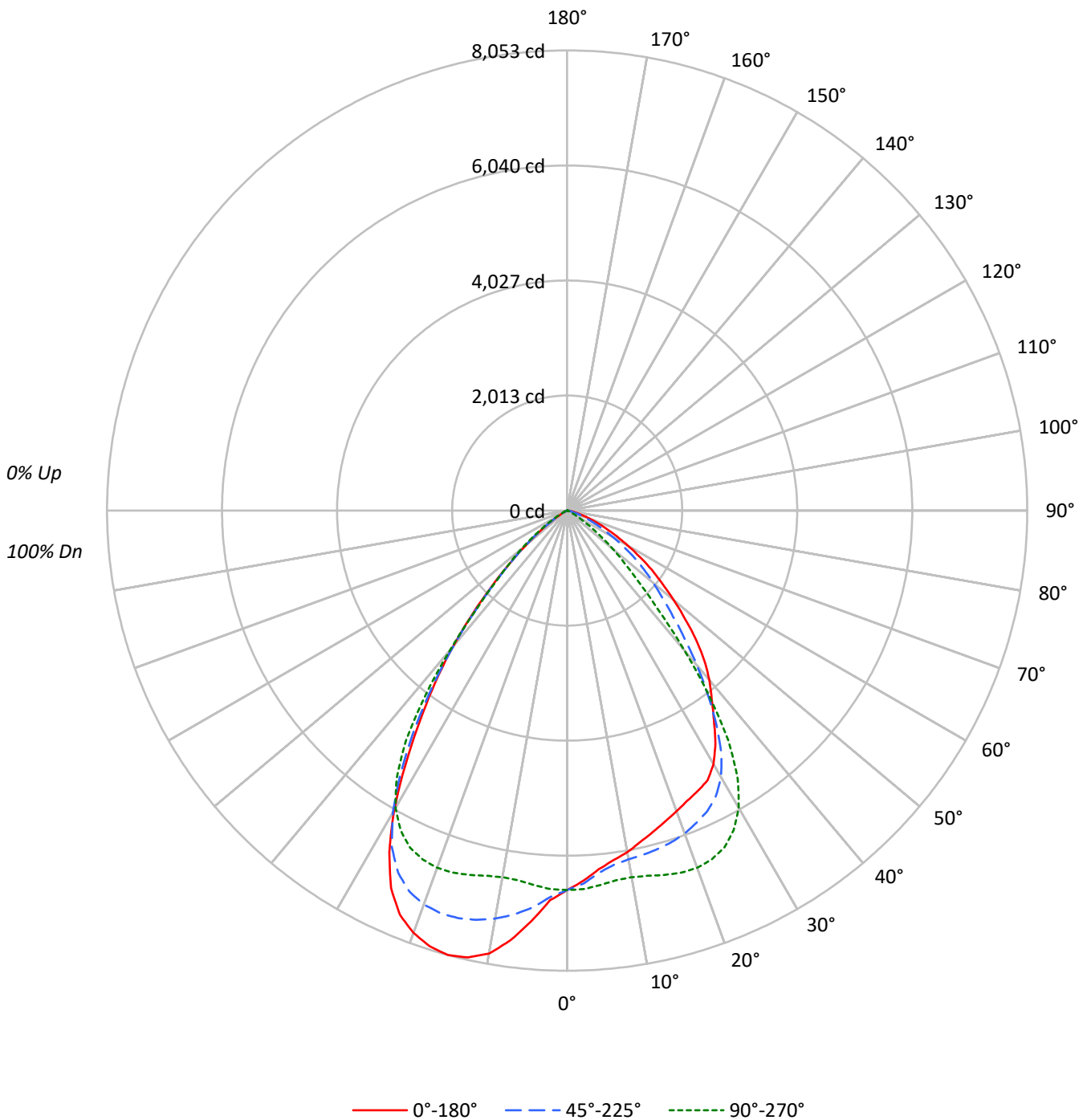
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	204781	204781	204781
5°	195094	203641	223241
10°	190064	203957	246419
15°	185754	210718	257082
20°	183707	218330	258047
25°	184138	221415	248019
30°	182431	213811	215691
35°	168571	185040	168804
40°	155775	128289	125170
45°	138712	77411	79979
50°	116713	49873	45258
55°	97099	27359	20693
60°	75789	11866	6506
65°	55928	5888	3167
70°	38895	3642	1397
75°	23662	751	0
80°	17083	1119	0
85°	10968	1097	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	638.4	5.7
10°-20°	1910.7	17.0
20°-30°	2926.1	26.1
30°-40°	2868.5	25.5
40°-50°	1727.4	15.4
50°-60°	795.1	7.1
60°-70°	279.3	2.5
70°-80°	73.1	0.7
80°-90°	12.5	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°	5475.2	48.8
0°-40°	8343.7	74.3
0°-60°	10866.2	96.8
0°-90°	11231.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11231.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6641	6641	6641	6641	6641	
5°	6303	6362	6579	6973	7212	595
15°	5819	6132	6601	7383	8053	1644
25°	5412	5803	6508	6998	7290	2493
35°	4478	4540	4916	4633	4484	2805
45°	3181	2619	1775	1788	1834	2439
55°	1806	1431	509	400	385	1612
65°	766	531	81	40	43	781
75°	199	115	6	0	0	241
85°	31	16	3	0	0	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	6640.9	6640.9	6640.9	6640.9	6640.9	6640.9	6640.9	6640.9	6640.9	6640.9	6640.9
2.5°	6485.7	6492.0	6492.0	6492.0	6504.4	6507.6	6504.4	6507.6	6513.7	6535.4	6544.7
5°	6302.7	6293.4	6299.6	6296.4	6312.0	6321.3	6315.1	6324.4	6346.1	6361.7	6377.1
7.5°	6172.4	6172.4	6172.4	6178.5	6187.8	6206.5	6203.4	6209.6	6231.3	6253.0	6274.7
10°	6070.0	6066.9	6066.9	6082.3	6094.7	6116.4	6122.7	6141.4	6169.2	6197.2	6222.0
12.5°	5936.5	5939.7	5955.1	5970.7	5998.5	6032.7	6051.3	6076.2	6119.6	6166.1	6194.1
15°	5818.6	5821.6	5834.2	5865.1	5899.3	5939.7	5979.9	6020.3	6073.0	6132.0	6181.7
17.5°	5703.7	5706.8	5716.1	5750.4	5793.8	5846.5	5893.0	5945.8	6014.1	6082.3	6144.4
20°	5598.2	5595.2	5610.6	5641.7	5697.6	5747.2	5793.8	5855.9	5930.3	6014.1	6085.4
22.5°	5495.8	5495.8	5511.4	5542.4	5592.1	5641.7	5691.4	5756.5	5831.0	5911.7	5995.5
25°	5412.0	5408.9	5430.7	5446.2	5483.4	5533.1	5585.8	5638.6	5713.1	5803.1	5883.7
27.5°	5322.1	5319.0	5322.1	5340.7	5374.8	5412.0	5452.4	5499.0	5561.1	5635.5	5713.1
30°	5123.5	5126.5	5126.5	5142.1	5160.8	5201.0	5222.7	5269.3	5325.1	5387.2	5455.6
32.5°	4828.7	4831.7	4831.7	4838.0	4853.4	4872.1	4890.7	4924.8	4968.3	5021.0	5083.1
35°	4478.0	4478.0	4474.8	4478.0	4487.4	4487.4	4502.8	4487.4	4509.1	4540.1	4586.6
37.5°	4155.2	4149.0	4142.9	4136.6	4127.3	4111.8	4090.1	4052.8	4043.5	4031.1	4034.2
40°	3869.8	3866.7	3848.1	3832.5	3801.4	3764.3	3711.5	3646.4	3593.6	3531.5	3478.8
42.5°	3553.2	3550.1	3534.6	3506.6	3472.5	3416.7	3332.9	3246.1	3140.5	3047.4	2951.2
45°	3180.8	3190.1	3168.4	3137.4	3097.0	3044.2	2951.2	2845.6	2740.1	2619.1	2498.1
47.5°	2792.9	2789.8	2774.3	2755.7	2721.6	2668.8	2606.8	2491.9	2380.2	2268.5	2144.4
50°	2432.9	2420.5	2414.3	2395.7	2374.0	2330.6	2265.3	2172.2	2073.0	1967.5	1852.6
52.5°	2091.6	2091.6	2076.0	2063.6	2045.0	2010.9	1955.1	1880.6	1796.8	1697.4	1576.5
55°	1806.1	1799.9	1784.4	1768.8	1750.2	1728.5	1678.9	1616.8	1526.8	1430.6	1325.1
57.5°	1502.0	1498.8	1492.7	1474.0	1464.7	1443.0	1387.2	1325.1	1247.6	1163.8	1076.8
60°	1228.9	1216.5	1204.0	1191.6	1176.2	1154.4	1117.1	1064.4	999.2	924.8	837.9
62.5°	983.8	1002.3	965.1	965.1	934.1	915.5	881.4	850.3	782.0	713.8	639.3
65°	766.5	766.5	750.9	738.5	719.9	698.2	664.1	633.0	583.4	530.6	477.8
67.5°	586.5	583.4	567.9	555.5	539.9	527.5	502.8	465.5	428.3	384.9	341.3
70°	431.4	428.3	425.1	403.4	391.0	375.5	356.9	332.1	304.1	273.1	232.7
72.5°	310.3	310.3	301.1	291.7	279.3	266.8	248.3	232.7	207.9	186.2	158.3
75°	198.6	195.6	195.6	180.0	180.0	161.3	148.9	139.6	127.2	114.8	90.1
77.5°	142.8	139.6	136.5	130.3	124.2	117.9	108.6	96.2	86.9	74.5	65.1
80°	96.2	90.1	86.9	86.9	77.5	74.5	77.5	59.0	55.8	46.5	40.4
82.5°	59.0	59.0	55.8	55.8	52.8	49.7	40.4	40.4	37.3	34.1	28.0
85°	31.0	40.4	28.0	31.0	28.0	31.0	28.0	21.7	18.6	15.5	15.5
87.5°	18.6	12.4	12.4	18.6	15.5	12.4	12.4	12.4	9.3	6.3	6.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: LD8B100D010 ER8B100850 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	6640.9	6640.9	6640.9	6640.9	6640.9	6640.9	6640.9	6640.9	6640.9	6640.9	6640.9
2.5°	6538.6	6560.3	6557.1	6585.1	6594.4	6616.1	6616.1	6631.6	6640.9	6662.6	6681.3
5°	6383.4	6417.5	6426.8	6460.9	6488.9	6523.0	6544.7	6578.8	6609.9	6656.5	6699.9
7.5°	6287.2	6315.1	6333.7	6374.1	6405.1	6442.3	6479.6	6526.1	6569.5	6625.5	6687.5
10°	6240.6	6277.9	6305.7	6346.1	6383.4	6423.8	6460.9	6513.7	6563.4	6634.8	6703.0
12.5°	6228.2	6271.6	6305.7	6361.7	6398.9	6442.3	6485.7	6544.7	6597.5	6672.0	6749.6
15°	6228.2	6287.2	6333.7	6395.8	6439.2	6495.0	6541.7	6600.6	6659.6	6737.1	6811.6
17.5°	6215.8	6287.2	6346.1	6417.5	6473.3	6529.3	6588.2	6644.1	6706.1	6780.7	6864.3
20°	6166.1	6256.2	6327.5	6411.3	6470.3	6532.3	6591.4	6653.3	6718.6	6796.1	6867.5
22.5°	6079.3	6184.8	6265.5	6355.4	6423.8	6485.7	6544.7	6606.8	6678.2	6752.7	6827.1
25°	5964.4	6063.7	6150.7	6243.7	6312.0	6380.2	6436.2	6507.6	6572.7	6644.1	6703.0
27.5°	5790.6	5896.1	5979.9	6076.2	6138.2	6203.4	6249.9	6308.9	6371.0	6429.9	6476.5
30°	5530.0	5626.2	5713.1	5799.9	5862.0	5908.6	5958.2	6004.8	6045.2	6085.4	6125.8
32.5°	5148.2	5235.2	5319.0	5399.6	5449.3	5489.7	5526.8	5554.8	5576.5	5598.2	5601.3
35°	4623.9	4695.2	4747.9	4819.3	4866.0	4903.1	4903.1	4915.5	4912.4	4903.1	4893.8
37.5°	4037.4	4065.2	4086.9	4114.9	4118.0	4118.0	4099.4	4083.8	4059.1	4052.8	4034.2
40°	3426.0	3388.7	3360.8	3323.6	3301.9	3255.2	3215.0	3187.0	3146.7	3140.5	3134.3
42.5°	2845.6	2758.8	2681.2	2616.1	2541.6	2476.3	2417.5	2374.0	2343.0	2339.8	2343.0
45°	2374.0	2274.7	2159.8	2069.9	1986.1	1905.4	1827.8	1775.1	1747.1	1740.9	1747.1
47.5°	2017.1	1902.3	1790.5	1688.1	1598.2	1508.1	1430.6	1359.2	1325.1	1315.8	1312.7
50°	1734.7	1616.8	1498.8	1393.3	1294.1	1204.0	1107.8	1039.6	996.2	980.6	968.2
52.5°	1458.6	1353.1	1232.0	1123.4	1024.0	918.5	819.3	741.6	698.2	679.7	667.1
55°	1216.5	1111.0	999.2	893.7	788.2	682.7	583.4	508.9	462.4	440.7	425.1
57.5°	971.3	872.0	775.8	670.3	583.4	481.0	381.7	316.5	276.2	251.4	239.0
60°	750.9	673.4	589.6	502.8	419.0	335.2	254.4	192.4	161.3	142.8	127.2
62.5°	567.9	502.8	446.8	372.3	307.2	235.8	173.8	124.2	96.2	80.7	74.5
65°	409.6	359.9	310.3	263.8	217.3	164.5	117.9	80.7	55.8	46.5	43.4
67.5°	291.7	251.4	214.1	183.0	148.9	117.9	83.8	55.8	43.4	37.3	34.1
70°	204.8	173.8	148.9	121.1	99.2	77.5	65.1	40.4	24.8	28.0	21.7
72.5°	136.5	114.8	102.4	83.8	68.2	55.8	40.4	28.0	28.0	21.7	18.6
75°	74.5	68.2	52.8	40.4	34.1	31.0	12.4	6.3	3.1	9.3	3.1
77.5°	52.8	46.5	40.4	34.1	28.0	21.7	12.4	12.4	9.3	12.4	6.3
80°	34.1	28.0	24.8	24.8	15.5	9.3	6.3	6.3	9.3	3.1	3.1
82.5°	21.7	18.6	15.5	15.5	15.5	9.3	9.3	9.3	9.3	6.3	6.3
85°	12.4	9.3	6.3	6.3	3.1	6.3	0.0	3.1	3.1	0.0	0.0
87.5°	6.3	3.1	3.1	3.1	3.1	0.0	0.0	3.1	0.0	3.1	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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	6640.9	6640.9	6640.9	6640.9	6640.9	6640.9	6640.9	6640.9	6640.9	6640.9	6640.9
2.5°	6693.7	6706.1	6721.6	6734.0	6762.0	6768.1	6780.7	6793.0	6802.4	6811.6	6814.8
5°	6737.1	6783.7	6827.1	6873.6	6932.7	6973.0	7019.5	7059.9	7100.2	7134.3	7159.1
7.5°	6749.6	6820.9	6886.2	6966.8	7053.6	7128.2	7205.7	7283.3	7364.0	7426.1	7478.8
10°	6774.4	6861.3	6945.0	7041.2	7153.0	7252.2	7348.4	7450.9	7553.3	7640.2	7717.8
12.5°	6817.8	6914.0	7004.1	7109.6	7224.4	7336.0	7441.5	7556.4	7665.1	7761.3	7848.1
15°	6889.2	6979.1	7066.1	7165.4	7280.2	7382.7	7488.2	7599.8	7708.5	7807.7	7888.5
17.5°	6935.7	7019.5	7106.4	7196.4	7292.6	7385.7	7485.0	7584.3	7683.6	7773.6	7848.1
20°	6935.7	7016.4	7081.6	7162.3	7252.2	7333.0	7413.7	7500.6	7587.4	7661.9	7733.3
22.5°	6879.9	6957.4	7007.1	7069.2	7146.7	7215.1	7258.5	7354.7	7419.8	7485.0	7537.7
25°	6749.6	6805.4	6845.8	6889.2	6951.3	6997.8	7035.1	7090.9	7156.1	7181.0	7218.1
27.5°	6513.7	6554.1	6575.8	6585.1	6616.1	6640.9	6647.2	6672.0	6699.9	6706.1	6721.6
30°	6141.4	6144.4	6135.1	6132.0	6116.4	6097.9	6094.7	6091.7	6079.3	6066.9	6070.0
32.5°	5579.6	5564.1	5526.8	5486.6	5446.2	5402.8	5377.9	5346.9	5328.2	5309.7	5288.0
35°	4853.4	4816.3	4763.5	4713.8	4667.3	4633.1	4577.3	4558.6	4540.1	4515.2	4509.1
37.5°	4000.1	3978.3	3928.7	3891.5	3866.7	3851.1	3823.1	3804.6	3804.6	3795.3	3789.0
40°	3118.7	3112.6	3093.9	3103.2	3090.9	3097.0	3093.9	3087.7	3103.2	3103.2	3109.5
42.5°	2339.8	2343.0	2352.3	2358.4	2377.1	2380.2	2395.7	2395.7	2405.1	2414.3	2420.5
45°	1740.9	1753.4	1753.4	1765.8	1784.4	1787.5	1793.6	1796.8	1802.9	1818.5	1824.7
47.5°	1306.4	1309.5	1309.5	1312.7	1318.8	1325.1	1322.0	1325.1	1334.4	1328.2	1334.4
50°	965.1	968.2	958.9	949.6	958.9	958.9	955.8	946.5	955.8	943.4	949.6
52.5°	657.9	654.8	645.4	648.6	642.4	639.3	639.3	633.0	633.0	633.0	620.6
55°	415.9	415.9	409.6	409.6	406.6	400.3	397.2	394.1	391.0	387.9	387.9
57.5°	232.7	235.8	226.6	223.4	226.6	223.4	217.3	217.3	217.3	207.9	214.1
60°	127.2	124.2	121.1	117.9	114.8	117.9	117.9	111.8	111.8	111.8	114.8
62.5°	68.2	68.2	65.1	65.1	62.1	62.1	68.2	59.0	62.1	59.0	62.1
65°	37.3	46.5	34.1	34.1	43.4	40.4	37.3	37.3	40.4	34.1	37.3
67.5°	40.4	28.0	24.8	28.0	24.8	24.8	24.8	31.0	28.0	21.7	28.0
70°	18.6	21.7	21.7	15.5	24.8	12.4	21.7	12.4	18.6	15.5	18.6
72.5°	18.6	18.6	18.6	12.4	18.6	12.4	15.5	15.5	12.4	12.4	18.6
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°	6.3	6.3	3.1	3.1	3.1	3.1	6.3	6.3	6.3	0.0	3.1
80°	6.3	6.3	0.0	3.1	0.0	0.0	3.1	0.0	3.1	0.0	6.3
82.5°	3.1	6.3	3.1	3.1	6.3	6.3	6.3	3.1	3.1	3.1	3.1
85°	0.0	3.1	0.0	0.0	0.0	0.0	6.3	0.0	0.0	0.0	3.1
87.5°	0.0	3.1	0.0	0.0	0.0	0.0	3.1	3.1	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: P250234

CATALOG NUMBER: LD8B100D010 ER8B100850 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	6640.9	6640.9	6640.9	6640.9
2.5°	6817.8	6820.9	6827.1	6824.1
5°	7177.8	7202.7	7215.1	7212.0
7.5°	7516.0	7559.6	7584.3	7584.3
10°	7776.7	7826.4	7863.6	7869.8
12.5°	7916.3	7972.3	8022.0	8009.4
15°	7956.7	8012.6	8062.2	8052.9
17.5°	7910.2	7966.0	8003.3	7997.0
20°	7783.0	7829.5	7866.8	7863.6
22.5°	7584.3	7624.7	7655.7	7652.6
25°	7249.2	7277.1	7301.9	7289.5
27.5°	6734.0	6743.4	6758.8	6740.3
30°	6048.2	6054.4	6060.6	6057.6
32.5°	5278.7	5275.5	5269.3	5263.1
35°	4499.7	4499.7	4502.8	4484.2
37.5°	3792.1	3789.0	3798.4	3789.0
40°	3115.6	3112.6	3125.0	3109.5
42.5°	2429.8	2439.2	2442.2	2442.2
45°	1827.8	1830.9	1834.0	1834.0
47.5°	1334.4	1337.5	1353.1	1334.4
50°	943.4	946.5	949.6	943.4
52.5°	623.7	626.9	623.7	614.4
55°	381.7	384.9	384.9	384.9
57.5°	204.8	207.9	207.9	204.8
60°	111.8	108.6	111.8	105.5
62.5°	59.0	65.1	62.1	55.8
65°	37.3	37.3	37.3	43.4
67.5°	31.0	24.8	28.0	21.7
70°	18.6	21.7	21.7	15.5
72.5°	15.5	15.5	15.5	18.6
75°	0.0	0.0	0.0	0.0
77.5°	6.3	6.3	6.3	3.1
80°	3.1	0.0	3.1	0.0
82.5°	3.1	3.1	6.3	3.1
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)