

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: P250279

Luminaire Tested: **LD8B175D010 ER8B1759727 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250279
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: LD8B175D010 ER8B1759727 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: 13023.0 lumens
Efficiency: N/A
Efficacy: 73.5 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

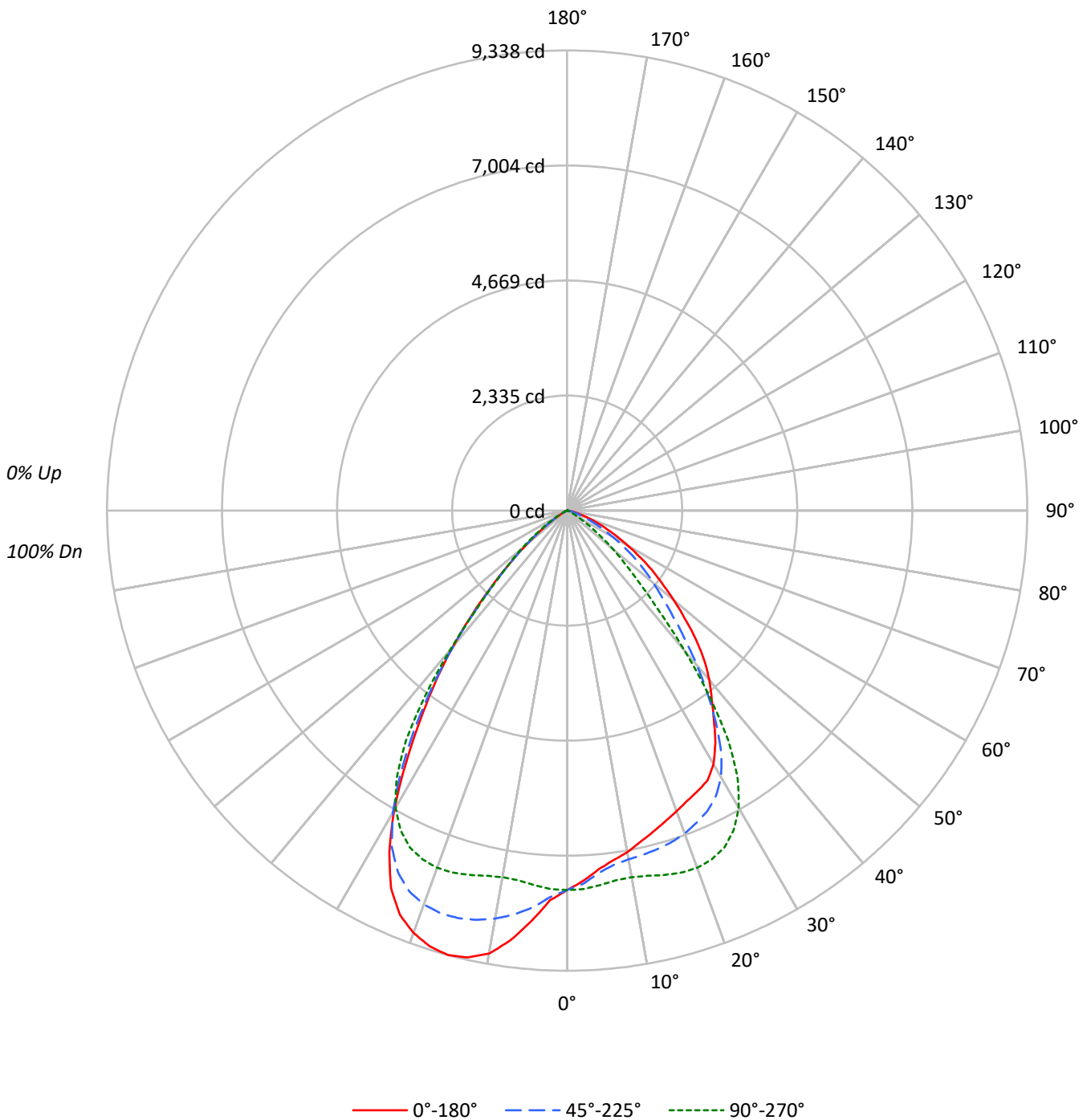
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	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			
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	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			
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	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			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	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			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38	38	38	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°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	740.3	5.7
10°-20°	2215.6	17.0
20°-30°	3392.9	26.1
30°-40°	3326.2	25.5
40°-50°	2003.0	15.4
50°-60°	921.9	7.1
60°-70°	323.9	2.5
70°-80°	84.7	0.7
80°-90°	14.4	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°	6348.8	48.8
0°-40°	9675.0	74.3
0°-60°	12600.0	96.8
0°-90°	13023.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13023.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7700	7700	7700	7700	7700	
5°	7308	7377	7628	8086	8363	690
15°	6747	7110	7654	8561	9338	1906
25°	6276	6729	7546	8114	8453	2890
35°	5192	5264	5700	5372	5200	3252
45°	3688	3037	2058	2073	2127	2828
55°	2094	1659	590	464	446	1869
65°	889	615	94	47	50	905
75°	230	133	7	0	0	279
85°	36	18	4	0	0	49
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°	7700.5	7700.5	7700.5	7700.5	7700.5	7700.5	7700.5	7700.5	7700.5	7700.5	7700.5
2.5°	7520.6	7527.8	7527.8	7527.8	7542.2	7545.9	7542.2	7545.9	7553.0	7578.2	7589.0
5°	7308.3	7297.5	7304.8	7301.1	7319.1	7329.9	7322.7	7333.5	7358.7	7376.8	7394.7
7.5°	7157.3	7157.3	7157.3	7164.4	7175.2	7196.8	7193.2	7200.4	7225.5	7250.7	7275.9
10°	7038.5	7034.9	7034.9	7052.8	7067.2	7092.4	7099.6	7121.3	7153.5	7186.0	7214.7
12.5°	6883.7	6887.4	6905.3	6923.4	6955.7	6995.2	7016.8	7045.7	7096.1	7150.0	7182.4
15°	6747.0	6750.5	6765.0	6800.9	6840.6	6887.4	6934.0	6980.8	7042.0	7110.4	7168.1
17.5°	6613.8	6617.4	6628.2	6667.9	6718.2	6779.4	6833.3	6894.5	6973.7	7052.8	7124.8
20°	6491.5	6487.9	6505.9	6541.8	6606.7	6664.2	6718.2	6790.2	6876.6	6973.7	7056.4
22.5°	6372.7	6372.7	6390.8	6426.8	6484.4	6541.8	6599.5	6675.0	6761.3	6855.0	6952.1
25°	6275.5	6272.0	6297.2	6315.2	6358.3	6415.9	6477.1	6538.3	6624.6	6729.1	6822.5
27.5°	6171.3	6167.7	6171.3	6192.9	6232.4	6275.5	6322.3	6376.4	6448.4	6534.7	6624.6
30°	5940.9	5944.5	5944.5	5962.6	5984.2	6030.9	6056.0	6110.1	6174.8	6246.8	6326.0
32.5°	5599.1	5602.7	5602.7	5609.9	5627.8	5649.5	5671.1	5710.6	5761.0	5822.2	5894.1
35°	5192.5	5192.5	5188.8	5192.5	5203.3	5203.3	5221.3	5203.3	5228.5	5264.5	5318.4
37.5°	4818.3	4811.0	4803.9	4796.6	4785.8	4767.9	4742.7	4699.5	4688.7	4674.3	4677.8
40°	4487.2	4483.7	4462.0	4444.0	4408.0	4364.9	4303.7	4228.2	4167.0	4095.0	4033.8
42.5°	4120.2	4116.5	4098.6	4066.1	4026.6	3961.9	3864.7	3764.0	3641.6	3533.7	3422.1
45°	3688.3	3699.1	3673.9	3637.9	3591.1	3530.0	3422.1	3299.7	3177.3	3037.1	2896.6
47.5°	3238.5	3234.9	3217.0	3195.4	3155.8	3094.7	3022.7	2889.5	2759.9	2630.5	2486.5
50°	2821.1	2806.7	2799.5	2778.0	2752.8	2702.5	2626.8	2518.8	2403.7	2281.4	2148.2
52.5°	2425.3	2425.3	2407.3	2392.9	2371.3	2331.7	2267.0	2180.7	2083.5	1968.3	1828.0
55°	2094.3	2087.1	2069.1	2051.1	2029.4	2004.3	1946.8	1874.8	1770.4	1658.9	1536.5
57.5°	1741.7	1738.0	1730.8	1709.2	1698.4	1673.2	1608.5	1536.5	1446.6	1349.5	1248.6
60°	1425.0	1410.6	1396.1	1381.7	1363.8	1338.6	1295.4	1234.2	1158.7	1072.3	971.6
62.5°	1140.8	1162.2	1119.1	1119.1	1083.1	1061.5	1022.0	986.0	906.7	827.7	741.3
65°	888.8	888.8	870.8	856.4	834.8	809.6	770.0	734.0	676.4	615.3	554.1
67.5°	680.1	676.4	658.5	644.1	626.1	611.7	583.0	539.7	496.6	446.3	395.8
70°	500.2	496.6	492.9	467.7	453.4	435.5	413.8	385.1	352.7	316.7	269.9
72.5°	359.8	359.8	349.1	338.3	323.9	309.4	287.9	269.9	241.1	215.9	183.5
75°	230.3	226.8	226.8	208.7	208.7	187.1	172.7	161.9	147.5	133.2	104.4
77.5°	165.6	161.9	158.3	151.1	144.0	136.7	125.9	111.5	100.7	86.3	75.5
80°	111.5	104.4	100.7	100.7	89.9	86.3	89.9	68.4	64.7	53.9	46.8
82.5°	68.4	68.4	64.7	64.7	61.2	57.6	46.8	46.8	43.2	39.5	32.4
85°	36.0	46.8	32.4	36.0	32.4	36.0	32.4	25.2	21.6	17.9	17.9
87.5°	21.6	14.4	14.4	21.6	17.9	14.4	14.4	14.4	10.8	7.3	7.3
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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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	7700.5	7700.5	7700.5	7700.5	7700.5	7700.5	7700.5	7700.5	7700.5	7700.5	7700.5
2.5°	7581.9	7607.1	7603.4	7635.8	7646.6	7671.8	7671.8	7689.7	7700.5	7725.7	7747.3
5°	7401.9	7441.5	7452.3	7491.8	7524.3	7563.8	7589.0	7628.5	7664.5	7718.6	7769.0
7.5°	7290.4	7322.7	7344.3	7391.1	7427.1	7470.2	7513.5	7567.4	7617.7	7682.6	7754.6
10°	7236.3	7279.6	7311.9	7358.7	7401.9	7448.7	7491.8	7553.0	7610.6	7693.4	7772.5
12.5°	7222.0	7272.3	7311.9	7376.8	7419.9	7470.2	7520.6	7589.0	7650.2	7736.5	7826.6
15°	7222.0	7290.4	7344.3	7416.3	7466.7	7531.4	7585.4	7653.7	7722.2	7812.1	7898.4
17.5°	7207.6	7290.4	7358.7	7441.5	7506.2	7571.1	7639.4	7704.2	7776.1	7862.6	7959.6
20°	7150.0	7254.4	7337.1	7434.2	7502.6	7574.6	7643.1	7714.9	7790.6	7880.5	7963.3
22.5°	7049.3	7171.6	7265.2	7369.5	7448.7	7520.6	7589.0	7661.0	7743.8	7830.1	7916.5
25°	6916.1	7031.2	7132.1	7239.9	7319.1	7398.2	7463.1	7545.9	7621.4	7704.2	7772.5
27.5°	6714.5	6836.9	6934.0	7045.7	7117.6	7193.2	7247.2	7315.6	7387.6	7455.8	7509.9
30°	6412.4	6523.9	6624.6	6725.4	6797.3	6851.4	6908.9	6962.9	7009.7	7056.4	7103.2
32.5°	5969.7	6070.5	6167.7	6261.2	6318.8	6365.6	6408.7	6441.1	6466.3	6491.5	6495.0
35°	5361.7	5444.3	5505.5	5588.3	5642.4	5685.5	5685.5	5699.8	5696.3	5685.5	5674.6
37.5°	4681.5	4713.8	4739.0	4771.5	4775.0	4775.0	4753.5	4735.5	4706.7	4699.5	4677.8
40°	3972.7	3929.4	3897.0	3853.9	3828.7	3774.7	3728.0	3695.6	3648.8	3641.6	3634.4
42.5°	3299.7	3198.9	3109.0	3033.5	2947.1	2871.5	2803.2	2752.8	2716.8	2713.1	2716.8
45°	2752.8	2637.6	2504.4	2400.2	2303.0	2209.4	2119.5	2058.3	2025.9	2018.6	2025.9
47.5°	2339.0	2205.8	2076.2	1957.5	1853.2	1748.8	1658.9	1576.1	1536.5	1525.7	1522.2
50°	2011.5	1874.8	1738.0	1615.6	1500.5	1396.1	1284.6	1205.5	1155.1	1137.1	1122.7
52.5°	1691.3	1569.0	1428.5	1302.7	1187.4	1065.1	950.0	859.9	809.6	788.1	773.6
55°	1410.6	1288.3	1158.7	1036.3	914.0	791.7	676.4	590.1	536.2	511.0	492.9
57.5°	1126.2	1011.2	899.6	777.3	676.4	557.8	442.6	367.0	320.2	291.5	277.1
60°	870.8	780.9	683.7	583.0	485.8	388.6	295.0	223.1	187.1	165.6	147.5
62.5°	658.5	583.0	518.1	431.7	356.2	273.4	201.6	144.0	111.5	93.6	86.3
65°	475.0	417.4	359.8	305.9	251.9	190.8	136.7	93.6	64.7	53.9	50.4
67.5°	338.3	291.5	248.2	212.2	172.7	136.7	97.2	64.7	50.4	43.2	39.5
70°	237.4	201.6	172.7	140.4	115.1	89.9	75.5	46.8	28.7	32.4	25.2
72.5°	158.3	133.2	118.8	97.2	79.1	64.7	46.8	32.4	32.4	25.2	21.6
75°	86.3	79.1	61.2	46.8	39.5	36.0	14.4	7.3	3.6	10.8	3.6
77.5°	61.2	53.9	46.8	39.5	32.4	25.2	14.4	14.4	10.8	14.4	7.3
80°	39.5	32.4	28.7	28.7	17.9	10.8	7.3	7.3	10.8	3.6	3.6
82.5°	25.2	21.6	17.9	17.9	17.9	10.8	10.8	10.8	10.8	7.3	7.3
85°	14.4	10.8	7.3	7.3	3.6	7.3	0.0	3.6	3.6	0.0	0.0
87.5°	7.3	3.6	3.6	3.6	3.6	0.0	0.0	3.6	0.0	3.6	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°	7700.5	7700.5	7700.5	7700.5	7700.5	7700.5	7700.5	7700.5	7700.5	7700.5	7700.5
2.5°	7761.7	7776.1	7794.1	7808.5	7840.9	7848.0	7862.6	7876.9	7887.7	7898.4	7902.1
5°	7812.1	7866.1	7916.5	7970.4	8038.8	8085.6	8139.5	8186.3	8233.1	8272.7	8301.4
7.5°	7826.6	7909.2	7984.9	8078.4	8179.1	8265.6	8355.5	8445.4	8539.0	8611.0	8672.1
10°	7855.3	7956.0	8053.2	8164.7	8294.3	8409.4	8520.9	8639.7	8758.5	8859.2	8949.3
12.5°	7905.7	8017.2	8121.6	8244.0	8377.1	8506.6	8628.9	8762.1	8888.1	8999.6	9100.3
15°	7988.5	8092.7	8193.6	8308.7	8441.8	8560.6	8683.0	8812.4	8938.5	9053.5	9147.1
17.5°	8042.4	8139.5	8240.3	8344.7	8456.2	8564.2	8679.3	8794.5	8909.6	9014.0	9100.3
20°	8042.4	8136.0	8211.5	8305.1	8409.4	8503.0	8596.6	8697.3	8798.0	8884.4	8967.2
22.5°	7977.6	8067.6	8125.2	8197.1	8287.1	8366.3	8416.7	8528.2	8603.7	8679.3	8740.4
25°	7826.6	7891.3	7938.1	7988.5	8060.4	8114.4	8157.6	8222.3	8297.9	8326.7	8369.8
27.5°	7553.0	7599.8	7625.0	7635.8	7671.8	7700.5	7707.8	7736.5	7769.0	7776.1	7794.1
30°	7121.3	7124.8	7114.0	7110.4	7092.4	7070.9	7067.2	7063.6	7049.3	7034.9	7038.5
32.5°	6469.9	6451.9	6408.7	6362.0	6315.2	6264.9	6236.0	6200.0	6178.4	6156.9	6131.7
35°	5627.8	5584.7	5523.6	5466.0	5412.0	5372.3	5307.6	5286.0	5264.5	5235.6	5228.5
37.5°	4638.3	4613.1	4555.5	4512.4	4483.7	4465.6	4433.2	4411.7	4411.7	4400.9	4393.6
40°	3616.3	3609.2	3587.6	3598.4	3584.0	3591.1	3587.6	3580.3	3598.4	3598.4	3605.7
42.5°	2713.1	2716.8	2727.6	2734.8	2756.4	2759.9	2778.0	2778.0	2788.8	2799.5	2806.7
45°	2018.6	2033.1	2033.1	2047.5	2069.1	2072.7	2079.8	2083.5	2090.6	2108.7	2115.8
47.5°	1514.9	1518.5	1518.5	1522.2	1529.3	1536.5	1533.0	1536.5	1547.3	1540.1	1547.3
50°	1119.1	1122.7	1111.9	1101.1	1111.9	1111.9	1108.3	1097.5	1108.3	1094.0	1101.1
52.5°	762.9	759.2	748.4	752.1	744.9	741.3	741.3	734.0	734.0	734.0	719.7
55°	482.3	482.3	475.0	475.0	471.4	464.2	460.6	456.9	453.4	449.8	449.8
57.5°	269.9	273.4	262.8	259.0	262.8	259.0	251.9	251.9	251.9	241.1	248.2
60°	147.5	144.0	140.4	136.7	133.2	136.7	136.7	129.6	129.6	129.6	133.2
62.5°	79.1	79.1	75.5	75.5	72.0	72.0	79.1	68.4	72.0	68.4	72.0
65°	43.2	53.9	39.5	39.5	50.4	46.8	43.2	43.2	46.8	39.5	43.2
67.5°	46.8	32.4	28.7	32.4	28.7	28.7	28.7	36.0	32.4	25.2	32.4
70°	21.6	25.2	25.2	17.9	28.7	14.4	25.2	14.4	21.6	17.9	21.6
72.5°	21.6	21.6	21.6	14.4	21.6	14.4	17.9	17.9	14.4	14.4	21.6
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°	7.3	7.3	3.6	3.6	3.6	3.6	7.3	7.3	7.3	0.0	3.6
80°	7.3	7.3	0.0	3.6	0.0	0.0	3.6	0.0	3.6	0.0	7.3
82.5°	3.6	7.3	3.6	3.6	7.3	7.3	7.3	3.6	3.6	3.6	3.6
85°	0.0	3.6	0.0	0.0	0.0	0.0	7.3	0.0	0.0	0.0	3.6
87.5°	0.0	3.6	0.0	0.0	0.0	0.0	3.6	3.6	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: P250279

CATALOG NUMBER: LD8B175D010 ER8B1759727 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	7700.5	7700.5	7700.5	7700.5
2.5°	7905.7	7909.2	7916.5	7912.9
5°	8323.0	8351.9	8366.3	8362.7
7.5°	8715.2	8765.8	8794.5	8794.5
10°	9017.5	9075.2	9118.3	9125.5
12.5°	9179.4	9244.3	9301.9	9287.4
15°	9226.2	9291.1	9348.6	9337.8
17.5°	9172.3	9237.0	9280.3	9273.0
20°	9024.8	9078.7	9122.0	9118.3
22.5°	8794.5	8841.3	8877.3	8873.6
25°	8405.8	8438.3	8467.0	8452.6
27.5°	7808.5	7819.3	7837.2	7815.8
30°	7013.3	7020.4	7027.7	7024.1
32.5°	6120.9	6117.2	6110.1	6102.8
35°	5217.7	5217.7	5221.3	5199.6
37.5°	4397.2	4393.6	4404.4	4393.6
40°	3612.8	3609.2	3623.6	3605.7
42.5°	2817.5	2828.4	2831.9	2831.9
45°	2119.5	2123.0	2126.6	2126.6
47.5°	1547.3	1550.9	1569.0	1547.3
50°	1094.0	1097.5	1101.1	1094.0
52.5°	723.2	726.9	723.2	712.4
55°	442.6	446.3	446.3	446.3
57.5°	237.4	241.1	241.1	237.4
60°	129.6	125.9	129.6	122.3
62.5°	68.4	75.5	72.0	64.7
65°	43.2	43.2	43.2	50.4
67.5°	36.0	28.7	32.4	25.2
70°	21.6	25.2	25.2	17.9
72.5°	17.9	17.9	17.9	21.6
75°	0.0	0.0	0.0	0.0
77.5°	7.3	7.3	7.3	3.6
80°	3.6	0.0	3.6	0.0
82.5°	3.6	3.6	7.3	3.6
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)