

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: P250216

Luminaire Tested: **LD8B175D010 ER8B175830 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250216
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 ER8B175830 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17986.0 lumens
Efficiency: N/A
Efficacy: 101.5 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

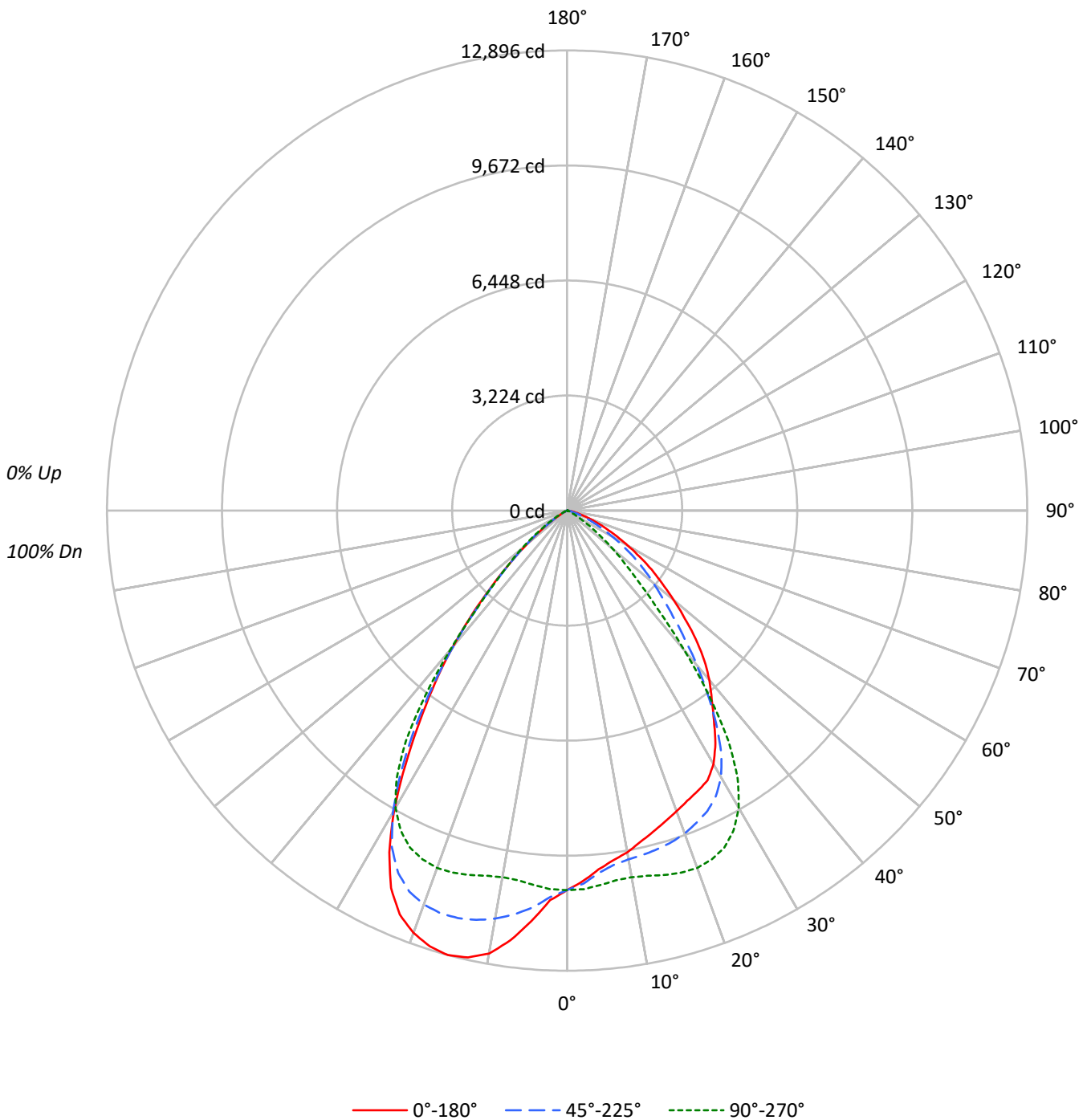
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	327950	327950	327950
5°	312435	326123	357511
10°	304378	326628	394632
15°	297475	337454	411703
20°	294202	349647	413250
25°	294890	354586	397194
30°	292153	342412	345417
35°	269962	296335	270330
40°	249466	205452	200457
45°	222141	123968	128080
50°	186912	79870	72482
55°	155500	43816	33133
60°	121372	19001	10423
65°	89572	9434	5071
70°	62282	5824	2236
75°	37899	1191	0
80°	27347	1776	0
85°	17584	1734	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1022.4	5.7
10°-20°	3059.9	17.0
20°-30°	4686.0	26.1
30°-40°	4593.8	25.5
40°-50°	2766.4	15.4
50°-60°	1273.3	7.1
60°-70°	447.3	2.5
70°-80°	117.0	0.7
80°-90°	19.9	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°	8768.3	48.8
0°-40°	13362.1	74.3
0°-60°	17401.8	96.8
0°-90°	17986.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17986.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10635	10635	10635	10635	10635	
5°	10094	10188	10536	11167	11550	953
15°	9318	9820	10570	11823	12896	2633
25°	8667	9294	10422	11207	11674	3992
35°	7171	7271	7872	7420	7181	4491
45°	5094	4194	2843	2863	2937	3906
55°	2892	2291	815	641	616	2581
65°	1228	850	129	65	70	1251
75°	318	184	10	0	0	386
85°	50	25	5	0	0	68
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°	10635.2	10635.2	10635.2	10635.2	10635.2	10635.2	10635.2	10635.2	10635.2	10635.2	10635.2
2.5°	10386.6	10396.6	10396.6	10396.6	10416.5	10421.6	10416.5	10421.6	10431.4	10466.2	10481.1
5°	10093.5	10078.6	10088.6	10083.5	10108.4	10123.4	10113.3	10128.3	10163.0	10188.0	10212.7
7.5°	9884.8	9884.8	9884.8	9894.7	9909.6	9939.5	9934.5	9944.4	9979.1	10013.9	10048.7
10°	9720.8	9715.9	9715.9	9740.6	9760.5	9795.2	9805.3	9835.1	9879.7	9924.5	9964.2
12.5°	9507.0	9512.1	9536.9	9561.8	9606.4	9661.1	9690.9	9730.8	9800.4	9874.8	9919.6
15°	9318.2	9323.1	9343.2	9392.7	9447.5	9512.1	9576.6	9641.2	9725.7	9820.2	9899.8
17.5°	9134.3	9139.2	9154.2	9209.0	9278.5	9363.0	9437.5	9522.0	9631.4	9740.6	9840.0
20°	8965.4	8960.4	8985.2	9034.9	9124.5	9203.9	9278.5	9377.9	9497.2	9631.4	9745.5
22.5°	8801.3	8801.3	8826.3	8876.0	8955.5	9034.9	9114.5	9218.8	9338.1	9467.3	9601.5
25°	8667.1	8662.2	8697.0	8721.9	8781.5	8861.0	8945.5	9030.0	9149.3	9293.5	9422.5
27.5°	8523.1	8518.2	8523.1	8553.0	8607.6	8667.1	8731.8	8806.4	8905.8	9025.1	9149.3
30°	8205.0	8209.9	8209.9	8234.9	8264.7	8329.2	8364.0	8438.6	8528.0	8627.4	8736.9
32.5°	7732.9	7737.8	7737.8	7747.8	7772.6	7802.4	7832.3	7886.9	7956.5	8041.0	8140.4
35°	7171.4	7171.4	7166.3	7171.4	7186.3	7186.3	7211.1	7186.3	7221.1	7270.8	7345.3
37.5°	6654.5	6644.4	6634.6	6624.6	6609.7	6584.9	6550.1	6490.4	6475.5	6455.6	6460.5
40°	6197.3	6192.4	6162.5	6137.5	6087.8	6028.3	5943.8	5839.5	5755.0	5655.6	5571.1
42.5°	5690.4	5685.3	5660.5	5615.7	5561.1	5471.7	5337.5	5198.4	5029.5	4880.3	4726.3
45°	5093.9	5108.8	5074.1	5024.3	4959.7	4875.2	4726.3	4557.1	4388.2	4194.5	4000.5
47.5°	4472.7	4467.7	4443.0	4413.1	4358.5	4274.0	4174.6	3990.7	3811.7	3632.9	3434.1
50°	3896.2	3876.4	3866.3	3836.7	3801.9	3732.4	3627.8	3478.7	3319.8	3150.8	2966.9
52.5°	3349.6	3349.6	3324.7	3304.8	3275.0	3220.4	3131.0	3011.7	2877.5	2718.4	2524.7
55°	2892.4	2882.4	2857.7	2832.7	2802.8	2768.1	2688.7	2589.3	2445.1	2291.0	2122.1
57.5°	2405.4	2400.3	2390.5	2360.6	2345.7	2310.9	2221.5	2122.1	1997.9	1863.7	1724.4
60°	1968.0	1948.2	1928.2	1908.3	1883.6	1848.8	1789.1	1704.6	1600.3	1481.0	1341.9
62.5°	1575.5	1605.2	1545.6	1545.6	1495.9	1466.1	1411.4	1361.7	1252.3	1143.1	1023.8
65°	1227.6	1227.6	1202.6	1182.8	1152.9	1118.1	1063.5	1013.8	934.2	849.7	765.3
67.5°	939.3	934.2	909.5	889.6	864.7	844.8	805.1	745.4	685.9	616.3	546.6
70°	690.8	685.9	680.8	646.0	626.2	601.4	571.5	531.9	487.1	437.3	372.7
72.5°	496.9	496.9	482.1	467.2	447.4	427.3	397.7	372.7	333.0	298.2	253.4
75°	318.1	313.2	313.2	288.2	288.2	258.4	238.5	223.6	203.7	183.9	144.2
77.5°	228.7	223.6	218.7	208.6	198.8	188.8	173.9	154.0	139.1	119.3	104.3
80°	154.0	144.2	139.1	139.1	124.2	119.3	124.2	94.5	89.4	74.5	64.6
82.5°	94.5	94.5	89.4	89.4	84.5	79.6	64.6	64.6	59.7	54.6	44.8
85°	49.7	64.6	44.8	49.7	44.8	49.7	44.8	34.8	29.9	24.8	24.8
87.5°	29.9	19.8	19.8	29.9	24.8	19.8	19.8	19.8	14.9	10.0	10.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	10635.2	10635.2	10635.2	10635.2	10635.2	10635.2	10635.2	10635.2	10635.2	10635.2	10635.2
2.5°	10471.3	10506.1	10501.0	10545.8	10560.7	10595.5	10595.5	10620.2	10635.2	10669.9	10699.8
5°	10222.8	10277.4	10292.3	10346.9	10391.7	10446.4	10481.1	10535.7	10585.5	10660.1	10729.7
7.5°	10068.7	10113.3	10143.2	10207.8	10257.5	10317.1	10376.8	10451.3	10520.8	10610.4	10709.8
10°	9994.1	10053.8	10098.4	10163.0	10222.8	10287.4	10346.9	10431.4	10511.0	10625.3	10734.6
12.5°	9974.2	10043.8	10098.4	10188.0	10247.5	10317.1	10386.6	10481.1	10565.6	10684.9	10809.2
15°	9974.2	10068.7	10143.2	10242.6	10312.2	10401.6	10476.2	10570.5	10665.0	10789.2	10908.4
17.5°	9954.4	10068.7	10163.0	10277.4	10366.8	10456.4	10550.7	10640.3	10739.5	10858.9	10992.9
20°	9874.8	10019.0	10133.2	10267.4	10361.9	10461.3	10555.8	10655.0	10759.5	10883.7	10998.0
22.5°	9735.7	9904.7	10034.0	10178.0	10287.4	10386.6	10481.1	10580.5	10694.9	10814.1	10933.4
25°	9551.8	9710.8	9850.1	9999.0	10108.4	10217.7	10307.3	10421.6	10525.9	10640.3	10734.6
27.5°	9273.4	9442.4	9576.6	9730.8	9830.0	9934.5	10009.0	10103.5	10202.9	10297.2	10371.9
30°	8856.1	9010.2	9149.3	9288.4	9387.8	9462.4	9541.8	9616.5	9681.1	9745.5	9810.2
32.5°	8244.7	8384.0	8518.2	8647.3	8726.8	8791.5	8851.0	8895.8	8930.6	8965.4	8970.3
35°	7405.0	7519.1	7603.6	7718.0	7792.6	7852.2	7852.2	7872.0	7867.1	7852.2	7837.2
37.5°	6465.7	6510.3	6545.0	6589.8	6594.7	6594.7	6565.1	6540.1	6500.4	6490.4	6460.5
40°	5486.6	5426.9	5382.1	5322.6	5287.8	5213.2	5148.7	5103.9	5039.3	5029.5	5019.4
42.5°	4557.1	4418.0	4293.9	4189.5	4070.3	3965.8	3871.5	3801.9	3752.2	3747.1	3752.2
45°	3801.9	3642.8	3458.9	3314.9	3180.7	3051.4	2927.2	2842.7	2797.9	2787.9	2797.9
47.5°	3230.4	3046.5	2867.5	2703.4	2559.4	2415.2	2291.0	2176.7	2122.1	2107.1	2102.2
50°	2778.1	2589.3	2400.3	2231.3	2072.4	1928.2	1774.1	1664.9	1595.3	1570.4	1550.5
52.5°	2335.8	2166.9	1973.0	1799.1	1639.9	1471.0	1312.0	1187.7	1118.1	1088.5	1068.4
55°	1948.2	1779.2	1600.3	1431.3	1262.3	1093.4	934.2	815.0	740.5	705.7	680.8
57.5°	1555.5	1396.5	1242.5	1073.5	934.2	770.4	611.2	506.9	442.3	402.6	382.7
60°	1202.6	1078.4	944.2	805.1	670.9	536.8	407.5	308.1	258.4	228.7	203.7
62.5°	909.5	805.1	715.5	596.3	492.0	377.6	278.4	198.8	154.0	129.3	119.3
65°	656.0	576.4	496.9	422.4	348.0	263.5	188.8	129.3	89.4	74.5	69.5
67.5°	467.2	402.6	342.8	293.1	238.5	188.8	134.2	89.4	69.5	59.7	54.6
70°	327.9	278.4	238.5	193.9	158.9	124.2	104.3	64.6	39.7	44.8	34.8
72.5°	218.7	183.9	164.1	134.2	109.2	89.4	64.6	44.8	44.8	34.8	29.9
75°	119.3	109.2	84.5	64.6	54.6	49.7	19.8	10.0	4.9	14.9	4.9
77.5°	84.5	74.5	64.6	54.6	44.8	34.8	19.8	19.8	14.9	19.8	10.0
80°	54.6	44.8	39.7	39.7	24.8	14.9	10.0	10.0	14.9	4.9	4.9
82.5°	34.8	29.9	24.8	24.8	24.8	14.9	14.9	14.9	14.9	10.0	10.0
85°	19.8	14.9	10.0	10.0	4.9	10.0	0.0	4.9	4.9	0.0	0.0
87.5°	10.0	4.9	4.9	4.9	4.9	0.0	0.0	4.9	0.0	4.9	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°	10635.2	10635.2	10635.2	10635.2	10635.2	10635.2	10635.2	10635.2	10635.2	10635.2	10635.2
2.5°	10719.6	10739.5	10764.4	10784.3	10829.1	10838.9	10858.9	10878.8	10893.7	10908.4	10913.6
5°	10789.2	10863.9	10933.4	11007.9	11102.4	11167.0	11241.5	11306.1	11370.7	11425.4	11465.1
7.5°	10809.2	10923.4	11027.9	11157.0	11296.1	11415.5	11539.7	11663.9	11793.2	11892.6	11977.1
10°	10848.9	10988.0	11122.2	11276.2	11455.2	11614.2	11768.2	11932.3	12096.3	12235.4	12359.8
12.5°	10918.5	11072.5	11216.7	11385.7	11569.6	11748.4	11917.3	12101.2	12275.3	12429.3	12568.4
15°	11032.8	11176.8	11316.1	11475.1	11659.0	11823.0	11992.0	12170.8	12344.9	12503.8	12633.1
17.5°	11107.3	11241.5	11380.6	11524.8	11678.8	11827.9	11986.9	12146.0	12305.0	12449.2	12568.4
20°	11107.3	11236.6	11340.9	11470.2	11614.2	11743.5	11872.7	12011.8	12150.9	12270.2	12384.5
22.5°	11017.9	11142.1	11221.6	11321.0	11445.2	11554.6	11624.2	11778.2	11882.6	11986.9	12071.4
25°	10809.2	10898.6	10963.3	11032.8	11132.2	11206.7	11266.4	11355.8	11460.1	11500.0	11559.6
27.5°	10431.4	10496.1	10530.8	10545.8	10595.5	10635.2	10645.2	10684.9	10729.7	10739.5	10764.4
30°	9835.1	9840.0	9825.1	9820.2	9795.2	9765.6	9760.5	9755.6	9735.7	9715.9	9720.8
32.5°	8935.5	8910.7	8851.0	8786.6	8721.9	8652.4	8612.5	8562.8	8532.9	8503.3	8468.5
35°	7772.6	7713.1	7628.6	7549.0	7474.5	7419.7	7330.3	7300.5	7270.8	7230.9	7221.1
37.5°	6405.9	6371.2	6291.6	6232.1	6192.4	6167.4	6122.6	6093.0	6093.0	6078.0	6068.0
40°	4994.5	4984.7	4954.8	4969.7	4949.9	4959.7	4954.8	4944.8	4969.7	4969.7	4979.8
42.5°	3747.1	3752.2	3767.1	3777.0	3806.8	3811.7	3836.7	3836.7	3851.6	3866.3	3876.4
45°	2787.9	2808.0	2808.0	2827.8	2857.7	2862.6	2872.4	2877.5	2887.3	2912.3	2922.1
47.5°	2092.2	2097.1	2097.1	2102.2	2112.1	2122.1	2117.2	2122.1	2137.0	2127.0	2137.0
50°	1545.6	1550.5	1535.6	1520.7	1535.6	1535.6	1530.7	1515.8	1530.7	1510.9	1520.7
52.5°	1053.7	1048.6	1033.6	1038.7	1028.7	1023.8	1023.8	1013.8	1013.8	1013.8	993.9
55°	666.0	666.0	656.0	656.0	651.1	641.1	636.2	631.1	626.2	621.2	621.2
57.5°	372.7	377.6	362.9	357.8	362.9	357.8	348.0	348.0	348.0	333.0	342.8
60°	203.7	198.8	193.9	188.8	183.9	188.8	188.8	179.0	179.0	179.0	183.9
62.5°	109.2	109.2	104.3	104.3	99.4	99.4	109.2	94.5	99.4	94.5	99.4
65°	59.7	74.5	54.6	54.6	69.5	64.6	59.7	59.7	64.6	54.6	59.7
67.5°	64.6	44.8	39.7	44.8	39.7	39.7	39.7	49.7	44.8	34.8	44.8
70°	29.9	34.8	34.8	24.8	39.7	19.8	34.8	19.8	29.9	24.8	29.9
72.5°	29.9	29.9	29.9	19.8	29.9	19.8	24.8	24.8	19.8	19.8	29.9
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°	10.0	10.0	4.9	4.9	4.9	4.9	10.0	10.0	10.0	0.0	4.9
80°	10.0	10.0	0.0	4.9	0.0	0.0	4.9	0.0	4.9	0.0	10.0
82.5°	4.9	10.0	4.9	4.9	10.0	10.0	10.0	4.9	4.9	4.9	4.9
85°	0.0	4.9	0.0	0.0	0.0	0.0	10.0	0.0	0.0	0.0	4.9
87.5°	0.0	4.9	0.0	0.0	0.0	0.0	4.9	4.9	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: P250216

CATALOG NUMBER: LD8B175D010 ER8B175830 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	10635.2	10635.2	10635.2	10635.2
2.5°	10918.5	10923.4	10933.4	10928.5
5°	11494.9	11534.8	11554.6	11549.7
7.5°	12036.6	12106.3	12146.0	12146.0
10°	12454.1	12533.7	12593.2	12603.2
12.5°	12677.7	12767.3	12846.8	12826.8
15°	12742.3	12831.9	12911.3	12896.3
17.5°	12667.8	12757.2	12817.0	12806.9
20°	12464.1	12538.6	12598.3	12593.2
22.5°	12146.0	12210.7	12260.4	12255.3
25°	11609.3	11654.1	11693.7	11673.9
27.5°	10784.3	10799.2	10824.0	10794.3
30°	9686.0	9695.8	9705.9	9700.9
32.5°	8453.6	8448.4	8438.6	8428.6
35°	7206.2	7206.2	7211.1	7181.2
37.5°	6072.9	6068.0	6082.9	6068.0
40°	4989.6	4984.7	5004.5	4979.8
42.5°	3891.3	3906.2	3911.1	3911.1
45°	2927.2	2932.1	2937.0	2937.0
47.5°	2137.0	2141.9	2166.9	2137.0
50°	1510.9	1515.8	1520.7	1510.9
52.5°	998.9	1004.0	998.9	983.9
55°	611.2	616.3	616.3	616.3
57.5°	327.9	333.0	333.0	327.9
60°	179.0	173.9	179.0	169.0
62.5°	94.5	104.3	99.4	89.4
65°	59.7	59.7	59.7	69.5
67.5°	49.7	39.7	44.8	34.8
70°	29.9	34.8	34.8	24.8
72.5°	24.8	24.8	24.8	29.9
75°	0.0	0.0	0.0	0.0
77.5°	10.0	10.0	10.0	4.9
80°	4.9	0.0	4.9	0.0
82.5°	4.9	4.9	10.0	4.9
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)