

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: P250209

Luminaire Tested: **LD8B175D010 ER8B175827 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250209
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 ER8B175827 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17546.0 lumens
Efficiency: N/A
Efficacy: 99.0 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

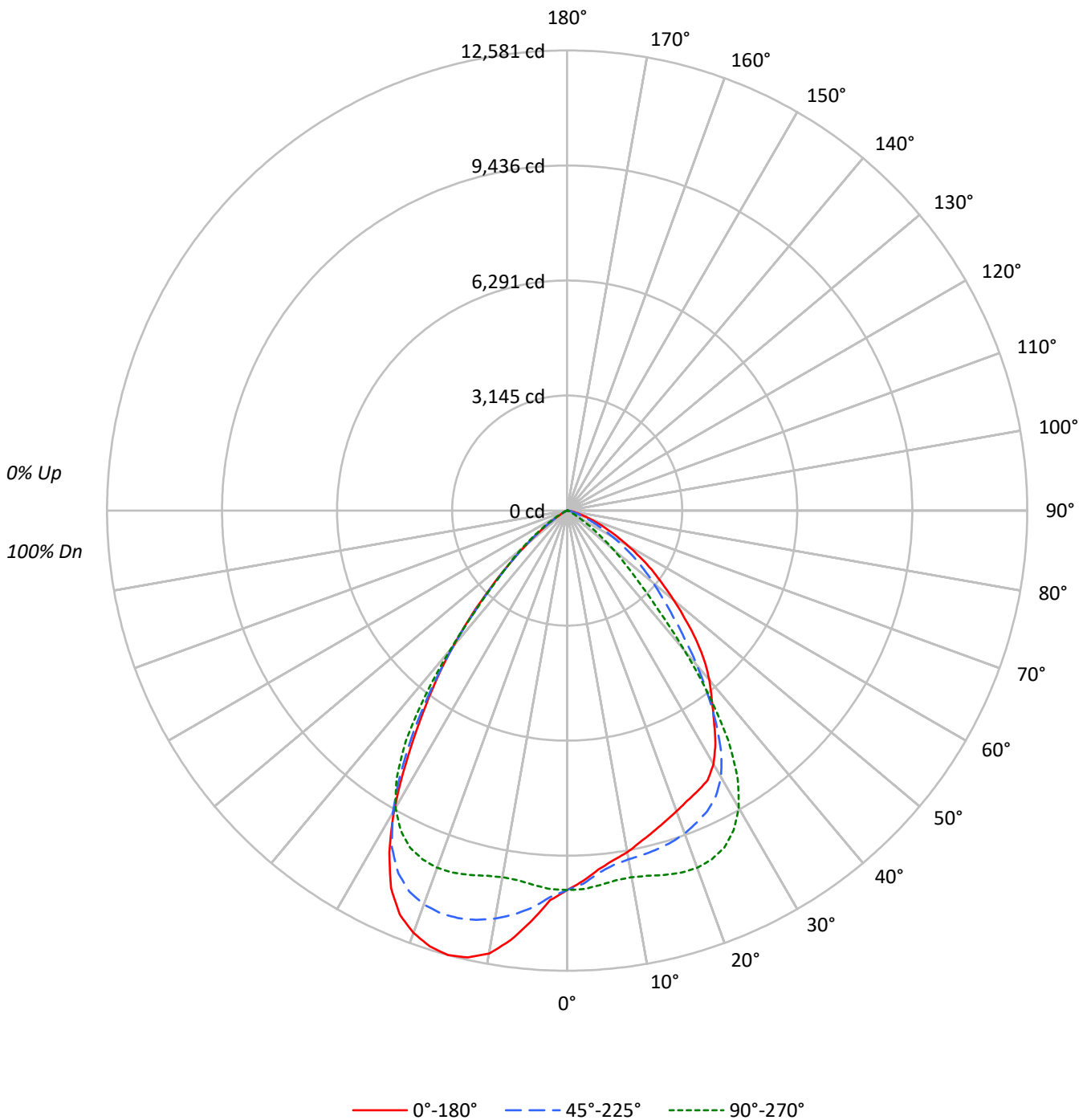
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	319927	319927	319927
5°	304793	318146	348766
10°	296932	318637	384978
15°	290200	329198	401634
20°	287003	341092	403139
25°	287677	345913	387477
30°	285007	334034	336968
35°	263355	289085	263716
40°	243363	200428	195550
45°	216707	120937	124949
50°	182340	77917	70707
55°	151699	42740	32327
60°	118405	18533	10164
65°	87376	9201	4947
70°	60758	5689	2173
75°	36970	1168	0
80°	26690	1740	0
85°	17160	1698	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	997.4	5.7
10°-20°	2985.1	17.0
20°-30°	4571.3	26.1
30°-40°	4481.4	25.5
40°-50°	2698.7	15.4
50°-60°	1242.1	7.1
60°-70°	436.4	2.5
70°-80°	114.1	0.7
80°-90°	19.4	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°	8553.8	48.8
0°-40°	13035.2	74.3
0°-60°	16976.1	96.8
0°-90°	17546.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17546.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10375	10375	10375	10375	10375	
5°	9847	9939	10278	10894	11267	930
15°	9090	9580	10312	11534	12581	2568
25°	8455	9066	10167	10932	11388	3894
35°	6996	7093	7679	7238	7006	4382
45°	4969	4092	2773	2793	2865	3811
55°	2822	2235	795	625	601	2518
65°	1198	829	126	63	68	1220
75°	310	179	10	0	0	376
85°	48	24	5	0	0	67
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°	10375.0	10375.0	10375.0	10375.0	10375.0	10375.0	10375.0	10375.0	10375.0	10375.0	10375.0
2.5°	10132.5	10142.3	10142.3	10142.3	10161.7	10166.7	10161.7	10166.7	10176.2	10210.2	10224.7
5°	9846.6	9832.0	9841.8	9836.8	9861.1	9875.7	9865.9	9880.5	9914.4	9938.8	9962.9
7.5°	9643.0	9643.0	9643.0	9652.6	9667.2	9696.3	9691.5	9701.1	9735.0	9768.9	9802.9
10°	9483.0	9478.2	9478.2	9502.3	9521.7	9555.6	9565.4	9594.5	9638.0	9681.7	9720.5
12.5°	9274.4	9279.4	9303.6	9327.9	9371.4	9424.7	9453.8	9492.8	9560.6	9633.2	9676.9
15°	9090.3	9095.1	9114.6	9162.9	9216.4	9279.4	9342.3	9405.4	9487.8	9580.0	9657.6
17.5°	8910.9	8915.7	8930.2	8983.7	9051.5	9134.0	9206.6	9289.0	9395.8	9502.3	9599.3
20°	8746.0	8741.2	8765.4	8813.9	8901.3	8978.7	9051.5	9148.5	9264.9	9395.8	9507.1
22.5°	8586.0	8586.0	8610.3	8658.8	8736.5	8813.9	8891.5	8993.3	9109.6	9235.7	9366.6
25°	8455.1	8450.3	8484.2	8508.6	8566.6	8644.3	8726.7	8809.1	8925.4	9066.1	9192.0
27.5°	8314.6	8309.8	8314.6	8343.7	8397.0	8455.1	8518.1	8591.0	8688.0	8804.3	8925.4
30°	8004.3	8009.1	8009.1	8033.4	8062.6	8125.4	8159.3	8232.2	8319.4	8416.4	8523.1
32.5°	7543.7	7548.5	7548.5	7558.3	7582.4	7611.6	7640.7	7694.0	7761.8	7844.2	7941.2
35°	6995.9	6995.9	6991.0	6995.9	7010.5	7010.5	7034.7	7010.5	7044.4	7092.9	7165.6
37.5°	6491.7	6481.9	6472.3	6462.5	6448.0	6423.8	6389.9	6331.6	6317.1	6297.7	6302.5
40°	6045.7	6040.9	6011.7	5987.4	5938.9	5880.8	5798.4	5696.7	5614.2	5517.3	5434.8
42.5°	5551.2	5546.2	5522.0	5478.3	5425.1	5337.9	5206.9	5071.3	4906.4	4760.9	4610.7
45°	4969.3	4983.8	4949.9	4901.4	4838.4	4756.0	4610.7	4445.7	4280.8	4091.8	3902.7
47.5°	4363.2	4358.4	4334.3	4305.2	4251.9	4169.5	4072.5	3893.1	3718.5	3544.1	3350.1
50°	3800.9	3781.5	3771.8	3742.8	3708.9	3641.1	3539.1	3393.6	3238.6	3073.7	2894.3
52.5°	3267.7	3267.7	3243.3	3224.0	3194.9	3141.6	3054.4	2938.0	2807.1	2651.9	2462.9
55°	2821.7	2811.9	2787.8	2763.4	2734.3	2700.4	2622.9	2525.9	2385.3	2235.0	2070.2
57.5°	2346.5	2341.6	2332.0	2302.8	2288.3	2254.4	2167.2	2070.2	1949.0	1818.1	1682.2
60°	1919.9	1900.5	1881.0	1861.6	1837.5	1803.6	1745.3	1662.9	1561.1	1444.8	1309.1
62.5°	1537.0	1565.9	1507.8	1507.8	1459.3	1430.2	1376.9	1328.4	1221.7	1115.1	998.8
65°	1197.5	1197.5	1173.2	1153.8	1124.7	1090.8	1037.5	989.0	911.4	828.9	746.5
67.5°	916.3	911.4	887.2	867.9	843.5	824.2	785.4	727.2	669.1	601.3	533.2
70°	673.9	669.1	664.1	630.2	610.8	586.7	557.6	518.8	475.1	426.6	363.6
72.5°	484.7	484.7	470.3	455.8	436.4	416.9	387.9	363.6	324.9	290.9	247.2
75°	310.3	305.5	305.5	281.2	281.2	252.0	232.7	218.1	198.8	179.4	140.7
77.5°	223.1	218.1	213.3	203.5	194.0	184.2	169.6	150.3	135.7	116.3	101.8
80°	150.3	140.7	135.7	135.7	121.1	116.3	121.1	92.2	87.2	72.6	63.1
82.5°	92.2	92.2	87.2	87.2	82.4	77.6	63.1	63.1	58.3	53.3	43.7
85°	48.5	63.1	43.7	48.5	43.7	48.5	43.7	33.9	29.1	24.1	24.1
87.5°	29.1	19.4	19.4	29.1	24.1	19.4	19.4	19.4	14.6	9.8	9.8
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°	10375.0	10375.0	10375.0	10375.0	10375.0	10375.0	10375.0	10375.0	10375.0	10375.0	10375.0
2.5°	10215.1	10249.1	10244.1	10287.8	10302.3	10336.3	10336.3	10360.4	10375.0	10408.9	10438.0
5°	9972.7	10026.0	10040.5	10093.8	10137.5	10190.8	10224.7	10278.0	10326.5	10399.3	10467.2
7.5°	9822.4	9865.9	9895.1	9958.1	10006.6	10064.7	10123.0	10195.6	10263.4	10350.8	10447.8
10°	9749.6	9807.9	9851.4	9914.4	9972.7	10035.7	10093.8	10176.2	10253.9	10365.4	10472.0
12.5°	9730.2	9798.1	9851.4	9938.8	9996.8	10064.7	10132.5	10224.7	10307.1	10423.5	10544.8
15°	9730.2	9822.4	9895.1	9992.0	10059.9	10147.1	10219.9	10311.9	10404.1	10525.3	10641.6
17.5°	9710.9	9822.4	9914.4	10026.0	10113.2	10200.6	10292.6	10380.0	10476.8	10593.3	10724.0
20°	9633.2	9773.9	9885.3	10016.2	10108.4	10205.4	10297.6	10394.3	10496.3	10617.4	10729.0
22.5°	9497.6	9662.4	9788.5	9929.0	10035.7	10132.5	10224.7	10321.7	10433.3	10549.6	10665.9
25°	9318.2	9473.2	9609.1	9754.4	9861.1	9967.7	10055.1	10166.7	10268.4	10380.0	10472.0
27.5°	9046.6	9211.4	9342.3	9492.8	9589.5	9691.5	9764.2	9856.3	9953.3	10045.3	10118.2
30°	8639.5	8789.7	8925.4	9061.1	9158.1	9230.9	9308.4	9381.2	9444.3	9507.1	9570.2
32.5°	8043.0	8178.9	8309.8	8435.7	8513.4	8576.4	8634.5	8678.2	8712.1	8746.0	8750.8
35°	7223.8	7335.2	7417.6	7529.2	7602.0	7660.1	7660.1	7679.4	7674.6	7660.1	7645.5
37.5°	6307.5	6351.0	6384.9	6428.6	6433.4	6433.4	6404.5	6380.1	6341.4	6331.6	6302.5
40°	5352.4	5294.2	5250.5	5192.4	5158.5	5085.6	5022.8	4979.1	4916.0	4906.4	4896.6
42.5°	4445.7	4310.0	4188.8	4087.1	3970.7	3868.7	3776.7	3708.9	3660.4	3655.4	3660.4
45°	3708.9	3553.6	3374.3	3233.8	3102.9	2976.7	2855.6	2773.2	2729.5	2719.7	2729.5
47.5°	3151.3	2972.0	2797.3	2637.3	2496.8	2356.1	2235.0	2123.4	2070.2	2055.6	2050.8
50°	2710.1	2525.9	2341.6	2176.7	2021.7	1881.0	1730.7	1624.2	1556.3	1532.0	1512.6
52.5°	2278.7	2113.9	1924.7	1755.1	1599.8	1435.0	1279.9	1158.6	1090.8	1061.8	1042.3
55°	1900.5	1735.7	1561.1	1396.3	1231.4	1066.6	911.4	795.0	722.4	688.5	664.1
57.5°	1517.4	1362.4	1212.1	1047.3	911.4	751.5	596.3	494.5	431.4	392.7	373.4
60°	1173.2	1052.0	921.1	785.4	654.5	523.6	397.5	300.5	252.0	223.1	198.8
62.5°	887.2	785.4	698.0	581.7	479.9	368.4	271.6	194.0	150.3	126.1	116.3
65°	640.0	562.3	484.7	412.1	339.4	257.0	184.2	126.1	87.2	72.6	67.8
67.5°	455.8	392.7	334.5	286.0	232.7	184.2	130.9	87.2	67.8	58.3	53.3
70°	319.9	271.6	232.7	189.2	155.1	121.1	101.8	63.1	38.7	43.7	33.9
72.5°	213.3	179.4	160.0	130.9	106.6	87.2	63.1	43.7	43.7	33.9	29.1
75°	116.3	106.6	82.4	63.1	53.3	48.5	19.4	9.8	4.8	14.6	4.8
77.5°	82.4	72.6	63.1	53.3	43.7	33.9	19.4	19.4	14.6	19.4	9.8
80°	53.3	43.7	38.7	38.7	24.1	14.6	9.8	9.8	14.6	4.8	4.8
82.5°	33.9	29.1	24.1	24.1	24.1	14.6	14.6	14.6	14.6	9.8	9.8
85°	19.4	14.6	9.8	9.8	4.8	9.8	0.0	4.8	4.8	0.0	0.0
87.5°	9.8	4.8	4.8	4.8	4.8	0.0	0.0	4.8	0.0	4.8	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°	10375.0	10375.0	10375.0	10375.0	10375.0	10375.0	10375.0	10375.0	10375.0	10375.0	10375.0
2.5°	10457.4	10476.8	10501.1	10520.5	10564.2	10573.7	10593.3	10612.7	10627.2	10641.6	10646.6
5°	10525.3	10598.1	10665.9	10738.6	10830.8	10893.8	10966.5	11029.5	11092.6	11145.9	11184.6
7.5°	10544.8	10656.2	10758.1	10884.0	11019.7	11136.3	11257.4	11378.5	11504.7	11601.6	11684.1
10°	10583.5	10719.2	10850.1	11000.4	11175.0	11330.1	11480.3	11640.4	11800.4	11936.1	12057.4
12.5°	10651.4	10801.6	10942.3	11107.1	11286.5	11461.0	11625.8	11805.2	11975.0	12125.3	12261.0
15°	10762.9	10903.4	11039.3	11194.4	11373.8	11533.8	11698.6	11873.0	12042.9	12197.9	12324.0
17.5°	10835.6	10966.5	11102.2	11242.8	11393.1	11538.6	11693.6	11848.9	12003.9	12144.6	12261.0
20°	10835.6	10961.7	11063.4	11189.6	11330.1	11456.2	11582.3	11718.0	11853.7	11970.0	12081.6
22.5°	10748.4	10869.5	10947.1	11044.1	11165.2	11272.0	11339.8	11490.1	11591.9	11693.6	11776.1
25°	10544.8	10632.0	10695.1	10762.9	10859.9	10932.5	10990.8	11078.0	11179.8	11218.7	11276.8
27.5°	10176.2	10239.3	10273.2	10287.8	10336.3	10375.0	10384.8	10423.5	10467.2	10476.8	10501.1
30°	9594.5	9599.3	9584.8	9580.0	9555.6	9526.7	9521.7	9516.9	9497.6	9478.2	9483.0
32.5°	8716.9	8692.8	8634.5	8571.6	8508.6	8440.7	8401.8	8353.3	8324.2	8295.2	8261.3
35°	7582.4	7524.4	7441.9	7364.3	7291.7	7238.2	7151.0	7121.9	7092.9	7054.0	7044.4
37.5°	6249.2	6215.3	6137.7	6079.6	6040.9	6016.5	5972.8	5943.9	5943.9	5929.3	5919.6
40°	4872.3	4862.7	4833.6	4848.2	4828.8	4838.4	4833.6	4823.8	4848.2	4848.2	4857.9
42.5°	3655.4	3660.4	3675.0	3684.6	3713.7	3718.5	3742.8	3742.8	3757.4	3771.8	3781.5
45°	2719.7	2739.3	2739.3	2758.6	2787.8	2792.6	2802.1	2807.1	2816.7	2841.0	2850.6
47.5°	2041.0	2045.8	2045.8	2050.8	2060.4	2070.2	2065.4	2070.2	2084.7	2075.0	2084.7
50°	1507.8	1512.6	1498.0	1483.5	1498.0	1498.0	1493.3	1478.7	1493.3	1473.9	1483.5
52.5°	1027.9	1022.9	1008.3	1013.3	1003.6	998.8	998.8	989.0	989.0	989.0	969.6
55°	649.7	649.7	640.0	640.0	635.2	625.4	620.6	615.6	610.8	606.0	606.0
57.5°	363.6	368.4	354.0	349.0	354.0	349.0	339.4	339.4	339.4	324.9	334.5
60°	198.8	194.0	189.2	184.2	179.4	184.2	184.2	174.6	174.6	174.6	179.4
62.5°	106.6	106.6	101.8	101.8	97.0	97.0	106.6	92.2	97.0	92.2	97.0
65°	58.3	72.6	53.3	53.3	67.8	63.1	58.3	58.3	63.1	53.3	58.3
67.5°	63.1	43.7	38.7	43.7	38.7	38.7	38.7	48.5	43.7	33.9	43.7
70°	29.1	33.9	33.9	24.1	38.7	19.4	33.9	19.4	29.1	24.1	29.1
72.5°	29.1	29.1	29.1	19.4	29.1	19.4	24.1	24.1	19.4	19.4	29.1
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°	9.8	9.8	4.8	4.8	4.8	4.8	9.8	9.8	9.8	0.0	4.8
80°	9.8	9.8	0.0	4.8	0.0	0.0	4.8	0.0	4.8	0.0	9.8
82.5°	4.8	9.8	4.8	4.8	9.8	9.8	9.8	4.8	4.8	4.8	4.8
85°	0.0	4.8	0.0	0.0	0.0	0.0	9.8	0.0	0.0	0.0	4.8
87.5°	0.0	4.8	0.0	0.0	0.0	0.0	4.8	4.8	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: P250209

CATALOG NUMBER: LD8B175D010 ER8B175827 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	10375.0	10375.0	10375.0	10375.0
2.5°	10651.4	10656.2	10665.9	10661.1
5°	11213.7	11252.6	11272.0	11267.2
7.5°	11742.1	11810.2	11848.9	11848.9
10°	12149.4	12227.0	12285.1	12294.9
12.5°	12367.5	12454.9	12532.6	12513.0
15°	12430.6	12518.0	12595.4	12580.9
17.5°	12358.0	12445.2	12503.4	12493.6
20°	12159.2	12231.8	12290.1	12285.1
22.5°	11848.9	11911.9	11960.4	11955.5
25°	11325.3	11369.0	11407.7	11388.3
27.5°	10520.5	10535.0	10559.2	10530.2
30°	9449.1	9458.6	9468.4	9463.6
32.5°	8246.7	8241.8	8232.2	8222.4
35°	7029.9	7029.9	7034.7	7005.5
37.5°	5924.3	5919.6	5934.1	5919.6
40°	4867.5	4862.7	4882.1	4857.9
42.5°	3796.1	3810.7	3815.5	3815.5
45°	2855.6	2860.4	2865.2	2865.2
47.5°	2084.7	2089.5	2113.9	2084.7
50°	1473.9	1478.7	1483.5	1473.9
52.5°	974.4	979.4	974.4	959.9
55°	596.3	601.3	601.3	601.3
57.5°	319.9	324.9	324.9	319.9
60°	174.6	169.6	174.6	164.8
62.5°	92.2	101.8	97.0	87.2
65°	58.3	58.3	58.3	67.8
67.5°	48.5	38.7	43.7	33.9
70°	29.1	33.9	33.9	24.1
72.5°	24.1	24.1	24.1	29.1
75°	0.0	0.0	0.0	0.0
77.5°	9.8	9.8	9.8	4.8
80°	4.8	0.0	4.8	0.0
82.5°	4.8	4.8	9.8	4.8
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)