

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: P250286

Luminaire Tested: **LD8B175D010 ER8B1759730 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250286
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 ER8B1759730 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13778.0 lumens
Efficiency: N/A
Efficacy: 77.8 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

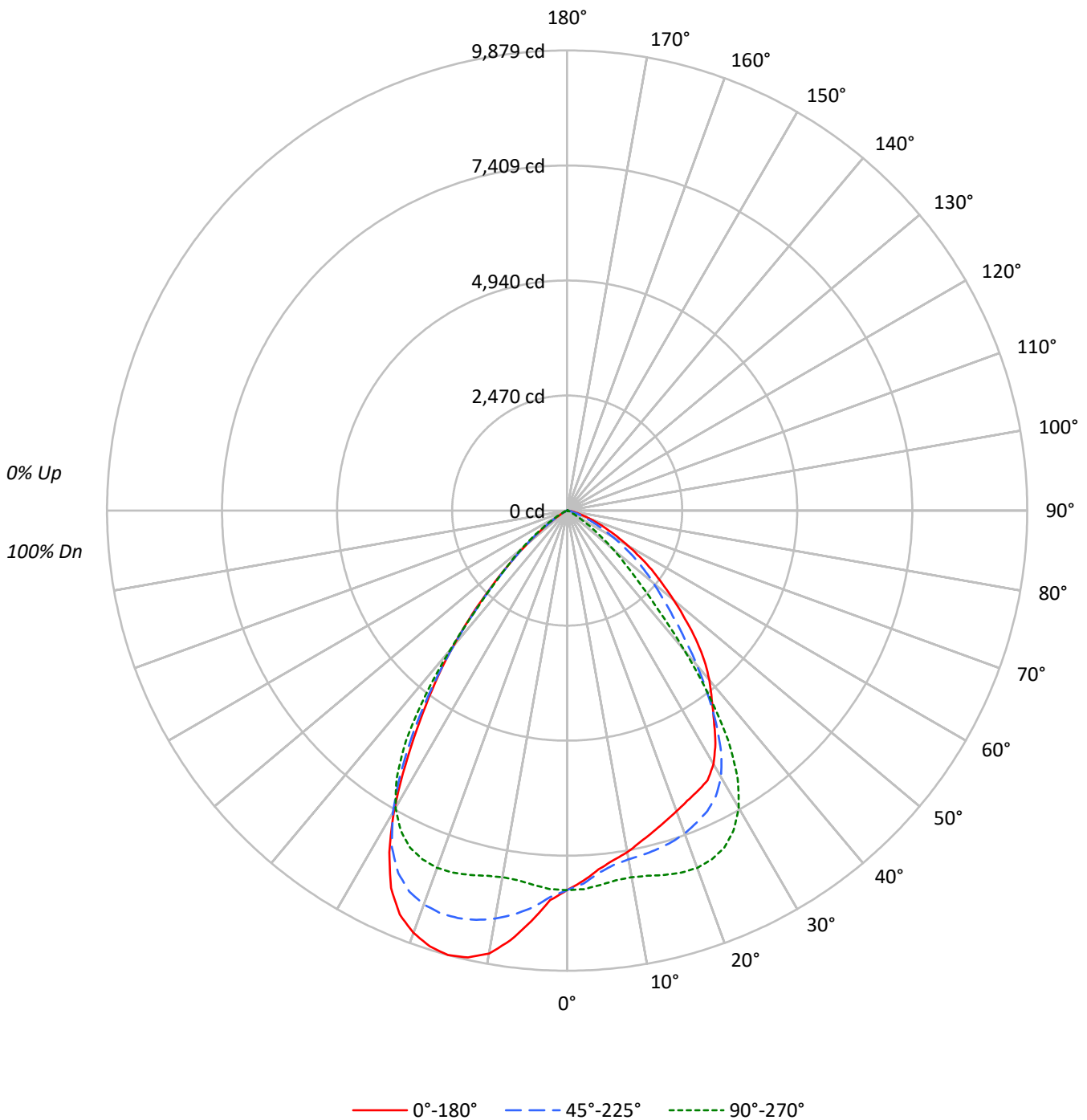
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	783.2	5.7
10°-20°	2344.0	17.0
20°-30°	3589.6	26.1
30°-40°	3519.0	25.5
40°-50°	2119.2	15.4
50°-60°	975.4	7.1
60°-70°	342.6	2.5
70°-80°	89.6	0.7
80°-90°	15.3	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°	6716.9	48.8
0°-40°	10235.9	74.3
0°-60°	13330.5	96.8
0°-90°	13778.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13778.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8147	8147	8147	8147	8147	
5°	7732	7804	8071	8554	8848	730
15°	7138	7523	8097	9057	9879	2017
25°	6639	7119	7983	8585	8943	3058
35°	5494	5570	6030	5684	5501	3441
45°	3902	3213	2178	2193	2250	2992
55°	2216	1755	624	491	472	1977
65°	940	651	99	50	53	958
75°	244	141	8	0	0	295
85°	38	19	4	0	0	52
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°	8147.0	8147.0	8147.0	8147.0	8147.0	8147.0	8147.0	8147.0	8147.0	8147.0	8147.0
2.5°	7956.6	7964.2	7964.2	7964.2	7979.4	7983.4	7979.4	7983.4	7990.9	8017.5	8029.0
5°	7732.0	7720.6	7728.3	7724.3	7743.5	7754.9	7747.2	7758.7	7785.3	7804.4	7823.4
7.5°	7572.2	7572.2	7572.2	7579.7	7591.1	7614.0	7610.3	7617.8	7644.4	7671.1	7697.7
10°	7446.5	7442.8	7442.8	7461.7	7476.9	7503.6	7511.2	7534.1	7568.3	7602.6	7633.0
12.5°	7282.8	7286.7	7305.6	7324.8	7358.9	7400.8	7423.6	7454.2	7507.5	7564.5	7598.8
15°	7138.1	7141.9	7157.2	7195.2	7237.2	7286.7	7336.0	7385.6	7450.3	7522.7	7583.6
17.5°	6997.3	7001.0	7012.5	7054.5	7107.7	7172.4	7229.5	7294.2	7378.0	7461.7	7537.9
20°	6867.8	6864.1	6883.0	6921.1	6989.7	7050.5	7107.7	7183.9	7275.2	7378.0	7465.5
22.5°	6742.2	6742.2	6761.3	6799.3	6860.3	6921.1	6982.1	7062.0	7153.3	7252.4	7355.2
25°	6639.4	6635.6	6662.2	6681.4	6727.0	6787.9	6852.6	6917.3	7008.7	7119.2	7218.0
27.5°	6529.0	6525.3	6529.0	6551.9	6593.8	6639.4	6688.9	6746.1	6822.2	6913.6	7008.7
30°	6285.4	6289.1	6289.1	6308.2	6331.1	6380.5	6407.1	6464.3	6532.8	6609.0	6692.8
32.5°	5923.7	5927.5	5927.5	5935.1	5954.1	5977.0	5999.9	6041.7	6095.0	6159.7	6235.9
35°	5493.6	5493.6	5489.7	5493.6	5505.0	5505.0	5524.0	5505.0	5531.6	5569.7	5626.8
37.5°	5097.6	5089.9	5082.4	5074.7	5063.3	5044.3	5017.7	4971.9	4960.5	4945.3	4949.0
40°	4747.4	4743.6	4720.7	4701.6	4663.5	4617.9	4553.2	4473.3	4408.6	4332.4	4267.7
42.5°	4359.1	4355.1	4336.2	4301.9	4260.0	4191.6	4088.8	3982.2	3852.8	3738.5	3620.5
45°	3902.1	3913.6	3886.9	3848.9	3799.3	3734.6	3620.5	3491.0	3361.5	3213.1	3064.6
47.5°	3426.2	3422.5	3403.5	3380.6	3338.8	3274.1	3197.9	3057.0	2919.9	2783.0	2630.7
50°	2984.7	2969.5	2961.8	2939.1	2912.4	2859.1	2779.1	2664.8	2543.1	2413.6	2272.8
52.5°	2566.0	2566.0	2546.8	2531.6	2508.8	2466.9	2398.4	2307.1	2204.3	2082.4	1934.0
55°	2215.7	2208.1	2189.1	2170.0	2147.1	2120.5	2059.7	1983.5	1873.0	1755.0	1625.6
57.5°	1842.6	1838.7	1831.2	1808.3	1796.9	1770.2	1701.8	1625.6	1530.5	1427.7	1321.0
60°	1507.6	1492.4	1477.0	1461.8	1442.9	1416.2	1370.5	1305.8	1225.9	1134.5	1027.9
62.5°	1206.9	1229.6	1184.0	1184.0	1145.9	1123.1	1081.2	1043.1	959.3	875.6	784.3
65°	940.4	940.4	921.2	906.0	883.2	856.5	814.7	776.6	715.6	650.9	586.2
67.5°	719.6	715.6	696.7	681.5	662.4	647.2	616.8	571.0	525.4	472.1	418.7
70°	529.2	525.4	521.5	494.9	479.7	460.7	437.8	407.4	373.1	335.0	285.5
72.5°	380.6	380.6	369.3	357.9	342.7	327.3	304.6	285.5	255.1	228.5	194.2
75°	243.7	239.9	239.9	220.8	220.8	197.9	182.7	171.3	156.1	140.9	110.5
77.5°	175.2	171.3	167.5	159.8	152.3	144.6	133.2	118.0	106.6	91.4	79.9
80°	118.0	110.5	106.6	106.6	95.1	91.4	95.1	72.4	68.5	57.0	49.5
82.5°	72.4	72.4	68.5	68.5	64.7	61.0	49.5	49.5	45.8	41.8	34.3
85°	38.1	49.5	34.3	38.1	34.3	38.1	34.3	26.6	22.9	19.0	19.0
87.5°	22.9	15.2	15.2	22.9	19.0	15.2	15.2	15.2	11.4	7.7	7.7
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°	8147.0	8147.0	8147.0	8147.0	8147.0	8147.0	8147.0	8147.0	8147.0	8147.0	8147.0
2.5°	8021.4	8048.1	8044.2	8078.5	8089.9	8116.6	8116.6	8135.5	8147.0	8173.6	8196.5
5°	7831.1	7872.9	7884.3	7926.2	7960.5	8002.3	8029.0	8070.8	8108.9	8166.1	8219.4
7.5°	7713.1	7747.2	7770.1	7819.6	7857.7	7903.3	7949.0	8006.1	8059.4	8128.0	8204.2
10°	7655.9	7701.6	7735.8	7785.3	7831.1	7880.6	7926.2	7990.9	8051.8	8139.4	8223.1
12.5°	7640.7	7693.9	7735.8	7804.4	7850.0	7903.3	7956.6	8029.0	8093.7	8185.0	8280.3
15°	7640.7	7713.1	7770.1	7846.3	7899.5	7968.0	8025.2	8097.4	8169.8	8265.0	8356.3
17.5°	7625.5	7713.1	7785.3	7872.9	7941.4	8010.0	8082.2	8150.9	8226.9	8318.4	8421.0
20°	7564.5	7675.0	7762.4	7865.2	7937.6	8013.8	8086.2	8162.2	8242.2	8337.4	8424.9
22.5°	7458.0	7587.4	7686.4	7796.7	7880.6	7956.6	8029.0	8105.1	8192.7	8284.1	8375.4
25°	7317.1	7438.8	7545.5	7659.6	7743.5	7827.1	7895.8	7983.4	8063.3	8150.9	8223.1
27.5°	7103.8	7233.2	7336.0	7454.2	7530.2	7610.3	7667.3	7739.7	7815.9	7888.1	7945.3
30°	6784.1	6902.1	7008.7	7115.3	7191.4	7248.6	7309.4	7366.6	7416.1	7465.5	7515.0
32.5°	6315.8	6422.5	6525.3	6624.2	6685.1	6734.6	6780.2	6814.5	6841.2	6867.8	6871.6
35°	5672.5	5760.0	5824.7	5912.3	5969.5	6015.1	6015.1	6030.3	6026.5	6015.1	6003.6
37.5°	4953.0	4987.1	5013.8	5048.1	5051.8	5051.8	5029.1	5010.0	4979.6	4971.9	4949.0
40°	4203.0	4157.2	4122.9	4077.3	4050.7	3993.5	3944.1	3909.8	3860.3	3852.8	3845.1
42.5°	3491.0	3384.4	3289.3	3209.4	3118.0	3037.9	2965.7	2912.4	2874.3	2870.4	2874.3
45°	2912.4	2790.5	2649.6	2539.3	2436.5	2337.5	2242.4	2177.7	2143.3	2135.7	2143.3
47.5°	2474.6	2333.7	2196.6	2070.9	1960.6	1850.2	1755.0	1667.4	1625.6	1614.2	1610.4
50°	2128.1	1983.5	1838.7	1709.3	1587.5	1477.0	1359.1	1275.4	1222.1	1203.0	1187.8
52.5°	1789.4	1659.9	1511.4	1378.2	1256.3	1126.8	1005.1	909.8	856.5	833.8	818.4
55°	1492.4	1363.0	1225.9	1096.4	967.0	837.6	715.6	624.3	567.3	540.6	521.5
57.5°	1191.5	1069.8	951.8	822.4	715.6	590.1	468.2	388.3	338.8	308.4	293.2
60°	921.2	826.1	723.3	616.8	514.0	411.2	312.1	236.0	197.9	175.2	156.1
62.5°	696.7	616.8	548.1	456.8	376.9	289.3	213.3	152.3	118.0	99.0	91.4
65°	502.5	441.6	380.6	323.6	266.5	201.8	144.6	99.0	68.5	57.0	53.3
67.5°	357.9	308.4	262.6	224.6	182.7	144.6	102.8	68.5	53.3	45.8	41.8
70°	251.2	213.3	182.7	148.6	121.8	95.1	79.9	49.5	30.4	34.3	26.6
72.5°	167.5	140.9	125.7	102.8	83.7	68.5	49.5	34.3	34.3	26.6	22.9
75°	91.4	83.7	64.7	49.5	41.8	38.1	15.2	7.7	3.8	11.4	3.8
77.5°	64.7	57.0	49.5	41.8	34.3	26.6	15.2	15.2	11.4	15.2	7.7
80°	41.8	34.3	30.4	30.4	19.0	11.4	7.7	7.7	11.4	3.8	3.8
82.5°	26.6	22.9	19.0	19.0	19.0	11.4	11.4	11.4	11.4	7.7	7.7
85°	15.2	11.4	7.7	7.7	3.8	7.7	0.0	3.8	3.8	0.0	0.0
87.5°	7.7	3.8	3.8	3.8	3.8	0.0	0.0	3.8	0.0	3.8	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°	8147.0	8147.0	8147.0	8147.0	8147.0	8147.0	8147.0	8147.0	8147.0	8147.0	8147.0
2.5°	8211.7	8226.9	8246.0	8261.2	8295.5	8303.0	8318.4	8333.6	8345.0	8356.3	8360.2
5°	8265.0	8322.2	8375.4	8432.5	8504.9	8554.4	8611.4	8660.9	8710.5	8752.3	8782.7
7.5°	8280.3	8367.8	8447.8	8546.7	8653.3	8744.8	8839.9	8935.0	9034.0	9110.2	9174.9
10°	8310.7	8417.3	8520.1	8638.1	8775.2	8896.9	9014.9	9140.6	9266.3	9372.8	9468.1
12.5°	8364.0	8482.0	8592.5	8721.9	8862.8	8999.7	9129.2	9270.0	9403.4	9521.4	9627.9
15°	8451.6	8561.9	8668.6	8790.4	8931.2	9056.9	9186.3	9323.3	9456.7	9578.4	9677.4
17.5°	8508.6	8611.4	8718.0	8828.4	8946.4	9060.7	9182.4	9304.3	9426.1	9536.6	9627.9
20°	8508.6	8607.7	8687.6	8786.6	8896.9	8996.0	9095.0	9201.5	9308.1	9399.5	9487.1
22.5°	8440.1	8535.3	8596.2	8672.4	8767.5	8851.3	8904.6	9022.6	9102.5	9182.4	9247.1
25°	8280.3	8348.8	8398.3	8451.6	8527.7	8584.8	8630.5	8699.0	8778.9	8809.5	8855.1
27.5°	7990.9	8040.4	8067.0	8078.5	8116.6	8147.0	8154.6	8185.0	8219.4	8226.9	8246.0
30°	7534.1	7537.9	7526.4	7522.7	7503.6	7480.8	7476.9	7473.2	7458.0	7442.8	7446.5
32.5°	6844.9	6826.0	6780.2	6730.9	6681.4	6628.1	6597.5	6559.4	6536.6	6513.8	6487.2
35°	5954.1	5908.5	5843.8	5782.8	5725.8	5683.8	5615.3	5592.4	5569.7	5539.2	5531.6
37.5°	4907.2	4880.6	4819.6	4774.0	4743.6	4724.5	4690.2	4667.4	4667.4	4656.0	4648.3
40°	3826.0	3818.5	3795.6	3807.0	3791.8	3799.3	3795.6	3787.9	3807.0	3807.0	3814.7
42.5°	2870.4	2874.3	2885.8	2893.3	2916.2	2919.9	2939.1	2939.1	2950.5	2961.8	2969.5
45°	2135.7	2151.0	2151.0	2166.2	2189.1	2192.9	2200.4	2204.3	2211.8	2230.9	2238.5
47.5°	1602.7	1606.5	1606.5	1610.4	1617.9	1625.6	1621.8	1625.6	1637.0	1629.4	1637.0
50°	1184.0	1187.8	1176.3	1164.9	1176.3	1176.3	1172.6	1161.1	1172.6	1157.4	1164.9
52.5°	807.2	803.2	791.8	795.7	788.0	784.3	784.3	776.6	776.6	776.6	761.4
55°	510.2	510.2	502.5	502.5	498.8	491.1	487.3	483.4	479.7	475.9	475.9
57.5°	285.5	289.3	278.0	274.1	278.0	274.1	266.5	266.5	266.5	255.1	262.6
60°	156.1	152.3	148.6	144.6	140.9	144.6	144.6	137.1	137.1	137.1	140.9
62.5°	83.7	83.7	79.9	79.9	76.2	76.2	83.7	72.4	76.2	72.4	76.2
65°	45.8	57.0	41.8	41.8	53.3	49.5	45.8	45.8	49.5	41.8	45.8
67.5°	49.5	34.3	30.4	34.3	30.4	30.4	30.4	38.1	34.3	26.6	34.3
70°	22.9	26.6	26.6	19.0	30.4	15.2	26.6	15.2	22.9	19.0	22.9
72.5°	22.9	22.9	22.9	15.2	22.9	15.2	19.0	19.0	15.2	15.2	22.9
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°	7.7	7.7	3.8	3.8	3.8	3.8	7.7	7.7	7.7	0.0	3.8
80°	7.7	7.7	0.0	3.8	0.0	0.0	3.8	0.0	3.8	0.0	7.7
82.5°	3.8	7.7	3.8	3.8	7.7	7.7	7.7	3.8	3.8	3.8	3.8
85°	0.0	3.8	0.0	0.0	0.0	0.0	7.7	0.0	0.0	0.0	3.8
87.5°	0.0	3.8	0.0	0.0	0.0	0.0	3.8	3.8	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: P250286

CATALOG NUMBER: LD8B175D010 ER8B1759730 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	8147.0	8147.0	8147.0	8147.0
2.5°	8364.0	8367.8	8375.4	8371.7
5°	8805.6	8836.1	8851.3	8847.6
7.5°	9220.5	9273.9	9304.3	9304.3
10°	9540.3	9601.3	9646.9	9654.6
12.5°	9711.6	9780.2	9841.2	9825.8
15°	9761.1	9829.8	9890.6	9879.1
17.5°	9704.1	9772.6	9818.3	9810.6
20°	9548.0	9605.0	9650.8	9646.9
22.5°	9304.3	9353.9	9391.9	9388.0
25°	8893.2	8927.5	8957.9	8942.7
27.5°	8261.2	8272.6	8291.6	8268.9
30°	7419.9	7427.4	7435.1	7431.3
32.5°	6475.8	6471.8	6464.3	6456.6
35°	5520.2	5520.2	5524.0	5501.1
37.5°	4652.1	4648.3	4659.8	4648.3
40°	3822.2	3818.5	3833.7	3814.7
42.5°	2980.9	2992.3	2996.1	2996.1
45°	2242.4	2246.1	2249.9	2249.9
47.5°	1637.0	1640.8	1659.9	1637.0
50°	1157.4	1161.1	1164.9	1157.4
52.5°	765.2	769.1	765.2	753.7
55°	468.2	472.1	472.1	472.1
57.5°	251.2	255.1	255.1	251.2
60°	137.1	133.2	137.1	129.4
62.5°	72.4	79.9	76.2	68.5
65°	45.8	45.8	45.8	53.3
67.5°	38.1	30.4	34.3	26.6
70°	22.9	26.6	26.6	19.0
72.5°	19.0	19.0	19.0	22.9
75°	0.0	0.0	0.0	0.0
77.5°	7.7	7.7	7.7	3.8
80°	3.8	0.0	3.8	0.0
82.5°	3.8	3.8	7.7	3.8
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)