

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: P248908

Luminaire Tested: **LD8B150D010 ER8B150850 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248908
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13958)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B150D010 ER8B150850 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 5000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12578.0 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

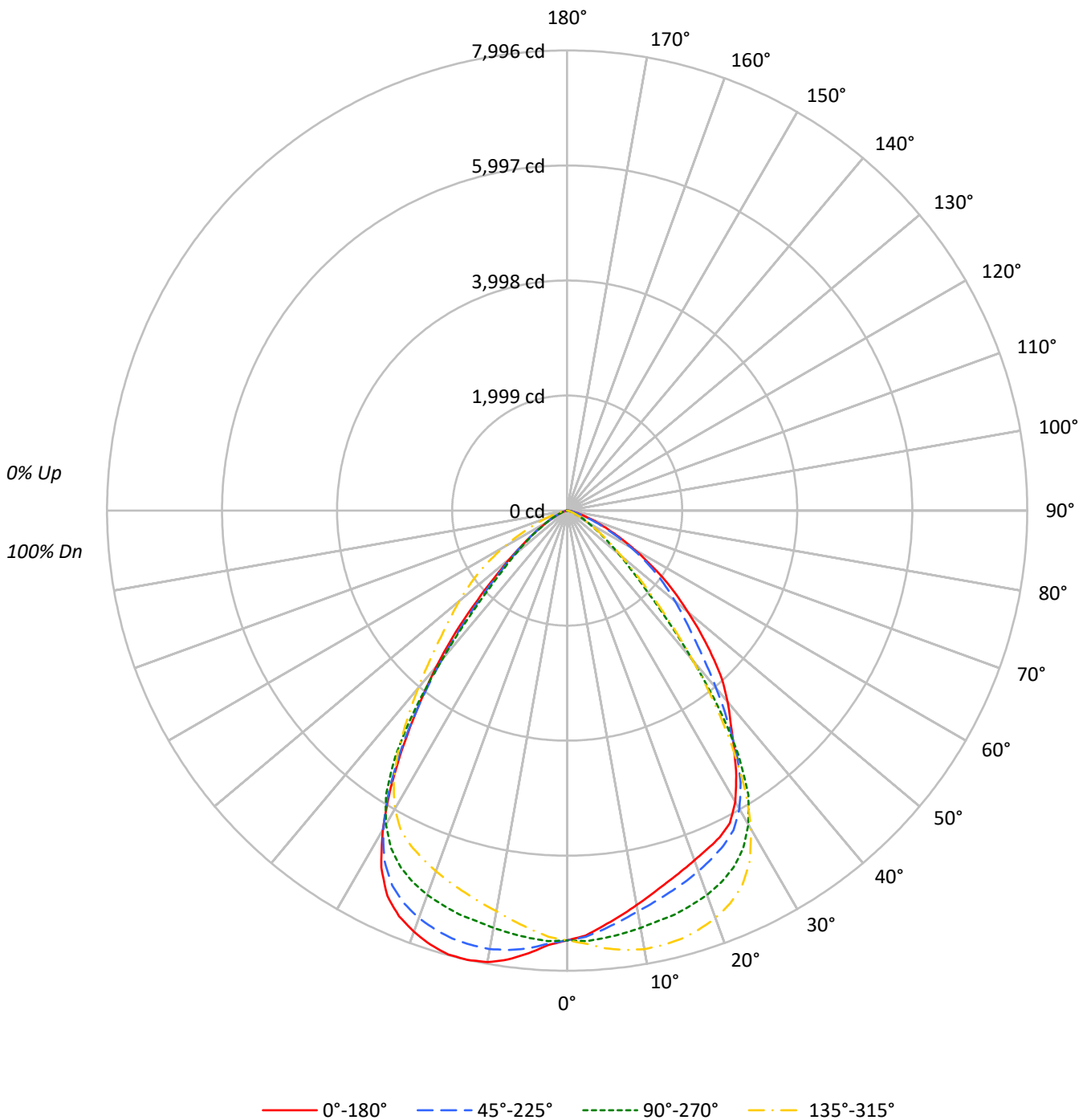
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	230261	230261	230261	230261
5°	224142	230800	239040	230800
10°	217944	230500	249450	230500
15°	213588	231868	254911	231868
20°	212135	233192	255566	233192
25°	213250	232725	251459	232725
30°	207975	224205	228235	224205
35°	190235	195584	185567	195584
40°	174654	136054	142076	136054
45°	155187	83001	96036	83001
50°	131354	55442	61568	55442
55°	108792	37832	39988	37832
60°	82974	25187	25409	25187
65°	58795	15695	14367	15695
70°	42402	10513	9539	10513
75°	26926	5218	4349	5218
80°	18788	3889	3232	3889
85°	16770	0	1274	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	710.7	5.7
10°-20°	2058.1	16.4
20°-30°	3116.5	24.8
30°-40°	3123.5	24.8
40°-50°	1961.4	15.6
50°-60°	1045.2	8.3
60°-70°	429.8	3.4
70°-80°	113.6	0.9
80°-90°	19.2	0.2
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°	5885.4	46.8
0°-40°	9008.8	71.6
0°-60°	12015.4	95.5
0°-90°	12578.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12578.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	7467	7467	7467	7467	7467	
5°	7241	7456	7722	7456	7241	683
15°	6690	7263	7985	7263	6690	1892
25°	6268	6840	7391	6840	6268	2875
35°	5054	5196	4930	5196	5054	3166
45°	3559	1903	2202	1903	3559	2737
55°	2024	704	744	704	2024	1804
65°	806	215	197	215	806	836
75°	226	44	36	44	226	256
85°	47	0	4	0	47	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°	7467.2	7467.2	7467.2	7467.2	7467.2	7467.2	7467.2	7467.2	7467.2	7467.2	7467.2
2.5°	7390.6	7383.3	7379.7	7387.0	7390.6	7405.2	7401.6	7408.8	7408.8	7412.5	7419.7
5°	7241.1	7237.4	7241.1	7241.1	7255.7	7270.3	7266.7	7277.6	7284.8	7303.1	7310.3
7.5°	7102.6	7102.6	7098.9	7113.4	7120.8	7142.7	7138.9	7157.3	7168.2	7186.4	7211.9
10°	6960.4	6960.4	6964.0	6974.9	6978.7	7011.4	7011.4	7036.9	7051.5	7069.8	7102.6
12.5°	6821.8	6821.8	6843.7	6836.4	6850.9	6876.5	6887.4	6912.9	6934.8	6971.3	7004.2
15°	6690.5	6690.5	6697.9	6716.0	6727.0	6759.9	6778.0	6807.3	6832.8	6869.3	6916.7
17.5°	6577.5	6573.9	6577.5	6599.4	6621.3	6650.4	6665.0	6701.5	6727.0	6774.4	6818.2
20°	6464.5	6471.9	6471.9	6490.0	6504.6	6541.0	6555.6	6595.8	6624.9	6668.6	6719.8
22.5°	6366.1	6362.5	6362.5	6388.0	6398.9	6431.6	6446.2	6482.7	6515.5	6552.0	6599.4
25°	6267.6	6260.3	6275.0	6278.6	6285.8	6322.2	6333.2	6358.7	6391.6	6424.4	6471.9
27.5°	6121.7	6114.5	6118.1	6132.7	6143.6	6172.8	6180.1	6205.6	6231.1	6260.3	6300.5
30°	5840.9	5833.7	5830.1	5855.6	5866.6	5888.4	5899.3	5943.1	5950.3	5983.2	6012.3
32.5°	5469.1	5465.5	5472.8	5494.6	5505.5	5534.8	5549.3	5574.9	5593.0	5611.3	5640.4
35°	5053.5	5046.1	5053.5	5075.4	5075.4	5100.9	5111.9	5122.7	5119.1	5122.7	5115.5
37.5°	4667.1	4663.3	4667.1	4677.9	4667.1	4677.9	4667.1	4645.1	4605.1	4561.2	4517.4
40°	4338.8	4342.4	4320.7	4335.2	4295.0	4287.8	4247.7	4193.0	4112.8	4025.3	3901.4
42.5°	3988.9	3977.9	3963.3	3970.5	3937.8	3912.2	3846.6	3777.4	3675.2	3529.5	3379.9
45°	3558.6	3555.0	3547.6	3544.0	3522.1	3496.6	3441.8	3361.7	3248.7	3099.2	2920.5
47.5°	3139.3	3128.3	3128.3	3131.9	3106.4	3102.8	3059.0	2989.8	2891.4	2745.5	2559.5
50°	2738.1	2734.5	2741.9	2756.4	2738.1	2730.9	2701.8	2654.4	2566.9	2442.9	2267.8
52.5°	2377.2	2373.6	2380.9	2399.1	2391.8	2399.1	2370.0	2333.5	2275.1	2154.8	2001.7
55°	2023.6	2023.6	2023.6	2045.4	2045.4	2045.4	2030.8	2009.1	1954.3	1866.8	1724.7
57.5°	1655.3	1658.9	1680.8	1684.4	1680.8	1688.2	1684.4	1662.5	1626.2	1564.2	1454.8
60°	1345.4	1345.4	1356.4	1367.3	1363.6	1367.3	1367.3	1356.4	1319.9	1268.9	1181.4
62.5°	1064.6	1075.6	1068.2	1075.6	1090.1	1075.6	1068.2	1061.0	1035.5	1002.7	929.7
65°	805.8	813.1	813.1	816.7	809.4	813.1	798.6	787.6	773.0	736.6	689.1
67.5°	612.6	612.6	612.6	612.6	608.9	605.3	601.7	590.7	565.2	550.6	499.5
70°	470.3	448.4	448.4	448.4	448.4	452.2	441.2	426.7	419.3	393.8	357.3
72.5°	313.5	320.9	313.5	313.5	306.3	309.9	295.3	288.0	280.8	266.2	244.3
75°	226.0	207.9	215.1	218.8	207.9	215.1	200.5	185.9	185.9	175.0	164.0
77.5°	145.9	142.3	145.9	149.5	145.9	142.3	134.9	127.6	127.6	124.0	113.0
80°	105.8	102.1	102.1	102.1	98.4	102.1	94.8	94.8	87.5	83.9	76.5
82.5°	69.3	69.3	65.6	69.3	65.6	69.3	58.4	58.4	58.4	54.6	47.4
85°	47.4	40.1	40.1	43.8	36.5	43.8	40.1	36.5	32.9	32.9	29.1
87.5°	21.9	25.5	21.9	25.5	21.9	21.9	25.5	21.9	21.9	14.6	14.6
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°	7467.2	7467.2	7467.2	7467.2	7467.2	7467.2	7467.2	7467.2	7467.2	7467.2	7467.2
2.5°	7430.7	7434.3	7434.3	7449.0	7456.2	7459.8	7459.8	7489.1	7478.1	7485.5	7492.7
5°	7325.0	7346.8	7354.2	7354.2	7394.2	7408.8	7423.3	7456.2	7459.8	7481.7	7507.2
7.5°	7222.8	7248.4	7263.1	7295.8	7321.3	7346.8	7390.6	7412.5	7434.3	7463.6	7496.3
10°	7124.4	7153.7	7182.8	7208.3	7248.4	7281.2	7310.3	7361.4	7387.0	7427.1	7470.8
12.5°	7029.7	7069.8	7095.3	7138.9	7182.8	7211.9	7255.7	7303.1	7343.2	7383.3	7434.3
15°	6945.8	6993.2	7022.3	7069.8	7117.2	7157.3	7204.7	7263.1	7292.2	7339.6	7387.0
17.5°	6854.6	6905.7	6942.2	6985.9	7044.2	7087.9	7128.1	7186.4	7222.8	7273.9	7328.6
20°	6759.9	6810.9	6854.6	6898.4	6956.8	7000.4	7047.8	7106.2	7146.3	7197.3	7241.1
22.5°	6646.8	6694.3	6741.5	6792.6	6850.9	6887.4	6942.2	6993.2	7036.9	7084.3	7128.1
25°	6501.0	6559.4	6595.8	6643.1	6690.5	6730.6	6789.0	6840.0	6876.5	6920.3	6960.4
27.5°	6329.6	6373.4	6402.5	6442.6	6490.0	6526.5	6570.2	6621.3	6657.8	6697.9	6727.0
30°	6037.8	6078.1	6103.6	6132.7	6180.1	6213.0	6249.4	6296.7	6322.2	6351.5	6377.0
32.5°	5655.0	5687.9	5702.4	5724.3	5757.2	5789.9	5819.2	5859.3	5870.2	5888.4	5888.4
35°	5100.9	5108.1	5104.5	5111.9	5126.4	5144.6	5170.1	5195.6	5210.2	5210.2	5199.4
37.5°	4451.8	4408.2	4360.7	4324.3	4313.3	4306.0	4320.7	4331.5	4346.2	4353.4	4335.2
40°	3777.4	3679.0	3573.1	3478.3	3412.7	3383.6	3372.6	3379.9	3379.9	3405.4	3405.4
42.5°	3197.7	3044.4	2887.8	2745.5	2650.6	2577.8	2545.0	2545.0	2548.6	2566.9	2577.8
45°	2716.4	2523.1	2340.7	2184.0	2052.7	1957.9	1914.2	1903.3	1899.7	1906.9	1932.4
47.5°	2348.1	2147.6	1957.9	1764.7	1626.2	1531.4	1491.3	1476.6	1462.0	1476.6	1480.3
50°	2060.1	1852.2	1651.7	1458.4	1312.6	1228.7	1177.6	1155.7	1152.1	1152.1	1159.5
52.5°	1797.5	1604.3	1403.8	1206.9	1053.7	973.5	926.1	915.2	900.6	915.2	915.2
55°	1549.5	1356.4	1159.5	973.5	845.8	762.1	718.3	703.7	696.4	707.3	707.3
57.5°	1279.8	1115.7	933.5	765.7	638.1	579.7	546.9	528.7	525.0	532.3	525.0
60°	1050.1	911.6	754.7	601.7	503.2	441.2	415.7	408.4	401.0	408.4	408.4
62.5°	831.3	714.7	586.9	470.3	386.4	342.8	313.5	313.5	309.9	309.9	313.5
65°	616.2	525.0	433.9	335.4	269.8	237.0	215.1	215.1	211.5	215.1	211.5
67.5°	448.4	386.4	313.5	244.3	193.3	175.0	160.4	149.5	156.8	149.5	145.9
70°	328.2	277.0	226.0	185.9	149.5	131.3	120.4	116.6	109.4	109.4	109.4
72.5°	218.8	185.9	153.1	120.4	98.4	80.1	76.5	69.3	62.0	65.6	72.9
75°	145.9	124.0	109.4	87.5	65.6	65.6	43.8	43.8	36.5	43.8	32.9
77.5°	102.1	83.9	65.6	54.6	43.8	40.1	29.1	29.1	25.5	25.5	25.5
80°	72.9	62.0	47.4	40.1	29.1	29.1	25.5	21.9	18.2	18.2	21.9
82.5°	43.8	32.9	32.9	29.1	18.2	14.6	11.0	14.6	7.4	7.4	7.4
85°	25.5	21.9	18.2	11.0	7.4	7.4	3.6	0.0	3.6	3.6	0.0
87.5°	14.6	7.4	7.4	3.6	0.0	3.6	3.6	0.0	0.0	0.0	7.4
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°	7467.2	7467.2	7467.2	7467.2	7467.2	7467.2	7467.2	7467.2	7467.2	7467.2	7467.2
2.5°	7511.0	7507.2	7514.6	7514.6	7536.5	7532.7	7543.7	7543.7	7536.5	7540.1	7554.7
5°	7536.5	7547.5	7569.2	7587.5	7620.2	7634.9	7653.1	7671.4	7675.0	7686.0	7696.9
7.5°	7536.5	7573.0	7598.5	7631.2	7675.0	7700.5	7740.6	7773.5	7788.0	7806.2	7828.1
10°	7521.8	7558.3	7605.7	7642.1	7696.9	7737.0	7777.1	7828.1	7850.0	7879.1	7908.4
12.5°	7492.7	7532.7	7583.8	7631.2	7693.2	7729.6	7780.7	7828.1	7861.0	7901.0	7933.9
15°	7449.0	7496.3	7543.7	7591.1	7656.7	7700.5	7748.0	7802.6	7835.4	7879.1	7908.4
17.5°	7379.7	7430.7	7474.5	7518.2	7580.2	7631.2	7675.0	7726.0	7758.9	7795.4	7835.4
20°	7295.8	7343.2	7390.6	7427.1	7489.1	7532.7	7580.2	7627.6	7653.1	7660.5	7722.4
22.5°	7190.1	7222.8	7259.3	7317.7	7354.2	7394.2	7438.0	7481.7	7507.2	7547.5	7569.2
25°	7015.0	7047.8	7087.9	7113.4	7157.3	7190.1	7233.8	7281.2	7295.8	7325.0	7346.8
27.5°	6770.8	6789.0	6807.3	6829.0	6854.6	6872.9	6898.4	6920.3	6934.8	6949.4	6964.0
30°	6384.2	6384.2	6384.2	6369.7	6380.6	6391.6	6395.2	6391.6	6391.6	6388.0	6388.0
32.5°	5873.8	5844.7	5811.8	5782.7	5771.8	5757.2	5749.8	5738.9	5720.7	5709.8	5713.4
35°	5184.7	5119.1	5079.0	5042.5	5013.4	4991.5	4980.6	4969.6	4966.0	4951.4	4936.7
37.5°	4324.3	4276.9	4247.7	4225.8	4200.3	4178.4	4182.0	4185.8	4196.6	4189.4	4193.0
40°	3412.7	3401.8	3412.7	3387.2	3379.9	3387.2	3405.4	3431.0	3445.6	3460.1	3485.7
42.5°	2596.0	2614.2	2639.8	2639.8	2650.6	2665.3	2687.1	2727.3	2749.1	2774.6	2803.9
45°	1954.3	1976.2	2009.1	2019.9	2027.2	2045.4	2071.0	2103.8	2118.3	2140.2	2165.7
47.5°	1505.9	1520.4	1538.6	1556.9	1575.0	1582.4	1607.9	1607.9	1626.2	1640.8	1648.0
50°	1174.0	1188.6	1203.2	1214.1	1221.5	1232.4	1239.6	1250.6	1254.2	1261.5	1265.1
52.5°	918.8	937.1	937.1	944.3	955.2	966.2	962.6	966.2	969.8	969.8	980.7
55°	718.3	718.3	729.2	729.2	736.6	732.8	736.6	736.6	736.6	736.6	740.2
57.5°	535.9	539.7	550.6	543.3	539.7	546.9	539.7	546.9	543.3	550.6	539.7
60°	412.0	412.0	415.7	415.7	419.3	419.3	419.3	415.7	415.7	412.0	412.0
62.5°	309.9	313.5	317.3	313.5	313.5	313.5	309.9	309.9	306.3	302.6	302.6
65°	207.9	204.3	211.5	204.3	207.9	207.9	204.3	207.9	196.9	200.5	196.9
67.5°	149.5	145.9	142.3	145.9	142.3	138.5	138.5	142.3	145.9	134.9	134.9
70°	98.4	102.1	98.4	102.1	105.8	105.8	102.1	98.4	102.1	94.8	98.4
72.5°	62.0	62.0	62.0	62.0	62.0	65.6	65.6	65.6	58.4	58.4	54.6
75°	29.1	40.1	32.9	29.1	40.1	40.1	36.5	36.5	32.9	32.9	32.9
77.5°	29.1	21.9	21.9	21.9	21.9	21.9	21.9	21.9	18.2	21.9	18.2
80°	14.6	14.6	14.6	11.0	14.6	14.6	18.2	14.6	14.6	11.0	18.2
82.5°	7.4	7.4	7.4	0.0	3.6	7.4	7.4	3.6	7.4	7.4	3.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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: P248908

CATALOG NUMBER: LD8B150D010 ER8B150850 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	7467.2	7467.2	7467.2	7467.2	7467.2	7467.2	7467.2	7467.2	7467.2	7467.2	7467.2
2.5°	7551.1	7547.5	7551.1	7554.7	7551.1	7547.5	7551.1	7554.7	7540.1	7536.5	7543.7
5°	7711.5	7711.5	7718.7	7722.4	7718.7	7711.5	7711.5	7696.9	7686.0	7675.0	7671.4
7.5°	7850.0	7857.4	7864.6	7868.2	7864.6	7857.4	7850.0	7828.1	7806.2	7788.0	7773.5
10°	7933.9	7944.9	7959.4	7966.6	7959.4	7944.9	7933.9	7908.4	7879.1	7850.0	7828.1
12.5°	7970.4	7981.3	7999.5	7995.9	7999.5	7981.3	7970.4	7933.9	7901.0	7861.0	7828.1
15°	7944.9	7959.4	7977.6	7984.9	7977.6	7959.4	7944.9	7908.4	7879.1	7835.4	7802.6
17.5°	7864.6	7886.5	7897.4	7908.4	7897.4	7886.5	7864.6	7835.4	7795.4	7758.9	7726.0
20°	7755.2	7769.9	7784.4	7788.0	7784.4	7769.9	7755.2	7722.4	7660.5	7653.1	7627.6
22.5°	7598.5	7609.4	7642.1	7631.2	7642.1	7609.4	7598.5	7569.2	7547.5	7507.2	7481.7
25°	7372.3	7383.3	7387.0	7390.6	7387.0	7383.3	7372.3	7346.8	7325.0	7295.8	7281.2
27.5°	6982.3	6982.3	6989.5	6993.2	6989.5	6982.3	6982.3	6964.0	6949.4	6934.8	6920.3
30°	6391.6	6391.6	6391.6	6409.9	6391.6	6391.6	6391.6	6388.0	6388.0	6391.6	6391.6
32.5°	5709.8	5702.4	5695.2	5702.4	5695.2	5702.4	5709.8	5713.4	5709.8	5720.7	5738.9
35°	4936.7	4933.1	4944.1	4929.5	4944.1	4933.1	4936.7	4936.7	4951.4	4966.0	4969.6
37.5°	4196.6	4189.4	4203.9	4189.4	4203.9	4189.4	4196.6	4193.0	4189.4	4196.6	4185.8
40°	3493.0	3500.2	3500.2	3529.5	3500.2	3500.2	3493.0	3485.7	3460.1	3445.6	3431.0
42.5°	2818.4	2840.3	2833.0	2854.9	2833.0	2840.3	2818.4	2803.9	2774.6	2749.1	2727.3
45°	2180.3	2195.0	2195.0	2202.2	2195.0	2195.0	2180.3	2165.7	2140.2	2118.3	2103.8
47.5°	1673.5	1673.5	1673.5	1677.2	1673.5	1673.5	1673.5	1648.0	1640.8	1626.2	1607.9
50°	1272.5	1276.1	1279.8	1283.4	1279.8	1276.1	1272.5	1265.1	1261.5	1254.2	1250.6
52.5°	977.1	980.7	973.5	980.7	973.5	980.7	977.1	980.7	969.8	969.8	966.2
55°	740.2	736.6	740.2	743.8	740.2	736.6	740.2	740.2	736.6	736.6	736.6
57.5°	543.3	535.9	535.9	535.9	535.9	535.9	543.3	539.7	550.6	543.3	546.9
60°	404.8	408.4	408.4	412.0	408.4	408.4	404.8	412.0	412.0	415.7	415.7
62.5°	299.0	309.9	302.6	309.9	302.6	309.9	299.0	302.6	302.6	306.3	309.9
65°	193.3	193.3	193.3	196.9	193.3	193.3	193.3	196.9	200.5	196.9	207.9
67.5°	131.3	134.9	142.3	138.5	142.3	134.9	131.3	134.9	134.9	145.9	142.3
70°	105.8	94.8	94.8	105.8	94.8	94.8	105.8	98.4	94.8	102.1	98.4
72.5°	62.0	54.6	62.0	62.0	62.0	54.6	62.0	54.6	58.4	58.4	65.6
75°	32.9	29.1	25.5	36.5	25.5	29.1	32.9	32.9	32.9	32.9	36.5
77.5°	21.9	18.2	25.5	25.5	25.5	18.2	21.9	18.2	21.9	18.2	21.9
80°	11.0	14.6	11.0	18.2	11.0	14.6	11.0	18.2	11.0	14.6	14.6
82.5°	3.6	7.4	7.4	7.4	7.4	7.4	3.6	3.6	7.4	7.4	3.6
85°	0.0	7.4	3.6	3.6	3.6	7.4	0.0	0.0	0.0	0.0	0.0
87.5°	3.6	0.0	0.0	3.6	0.0	0.0	3.6	0.0	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: P248908

CATALOG NUMBER: LD8B150D010 ER8B150850 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	7467.2	7467.2	7467.2	7467.2	7467.2	7467.2	7467.2	7467.2	7467.2	7467.2	7467.2
2.5°	7543.7	7532.7	7536.5	7514.6	7514.6	7507.2	7511.0	7492.7	7485.5	7478.1	7489.1
5°	7653.1	7634.9	7620.2	7587.5	7569.2	7547.5	7536.5	7507.2	7481.7	7459.8	7456.2
7.5°	7740.6	7700.5	7675.0	7631.2	7598.5	7573.0	7536.5	7496.3	7463.6	7434.3	7412.5
10°	7777.1	7737.0	7696.9	7642.1	7605.7	7558.3	7521.8	7470.8	7427.1	7387.0	7361.4
12.5°	7780.7	7729.6	7693.2	7631.2	7583.8	7532.7	7492.7	7434.3	7383.3	7343.2	7303.1
15°	7748.0	7700.5	7656.7	7591.1	7543.7	7496.3	7449.0	7387.0	7339.6	7292.2	7263.1
17.5°	7675.0	7631.2	7580.2	7518.2	7474.5	7430.7	7379.7	7328.6	7273.9	7222.8	7186.4
20°	7580.2	7532.7	7489.1	7427.1	7390.6	7343.2	7295.8	7241.1	7197.3	7146.3	7106.2
22.5°	7438.0	7394.2	7354.2	7317.7	7259.3	7222.8	7190.1	7128.1	7084.3	7036.9	6993.2
25°	7233.8	7190.1	7157.3	7113.4	7087.9	7047.8	7015.0	6960.4	6920.3	6876.5	6840.0
27.5°	6898.4	6872.9	6854.6	6829.0	6807.3	6789.0	6770.8	6727.0	6697.9	6657.8	6621.3
30°	6395.2	6391.6	6380.6	6369.7	6384.2	6384.2	6384.2	6377.0	6351.5	6322.2	6296.7
32.5°	5749.8	5757.2	5771.8	5782.7	5811.8	5844.7	5873.8	5888.4	5888.4	5870.2	5859.3
35°	4980.6	4991.5	5013.4	5042.5	5079.0	5119.1	5184.7	5199.4	5210.2	5210.2	5195.6
37.5°	4182.0	4178.4	4200.3	4225.8	4247.7	4276.9	4324.3	4335.2	4353.4	4346.2	4331.5
40°	3405.4	3387.2	3379.9	3387.2	3412.7	3401.8	3412.7	3405.4	3405.4	3379.9	3379.9
42.5°	2687.1	2665.3	2650.6	2639.8	2639.8	2614.2	2596.0	2577.8	2566.9	2548.6	2545.0
45°	2071.0	2045.4	2027.2	2019.9	2009.1	1976.2	1954.3	1932.4	1906.9	1899.7	1903.3
47.5°	1607.9	1582.4	1575.0	1556.9	1538.6	1520.4	1505.9	1480.3	1476.6	1462.0	1476.6
50°	1239.6	1232.4	1221.5	1214.1	1203.2	1188.6	1174.0	1159.5	1152.1	1152.1	1155.7
52.5°	962.6	966.2	955.2	944.3	937.1	937.1	918.8	915.2	915.2	900.6	915.2
55°	736.6	732.8	736.6	729.2	729.2	718.3	718.3	707.3	707.3	696.4	703.7
57.5°	539.7	546.9	539.7	543.3	550.6	539.7	535.9	525.0	532.3	525.0	528.7
60°	419.3	419.3	419.3	415.7	415.7	412.0	412.0	408.4	408.4	401.0	408.4
62.5°	309.9	313.5	313.5	313.5	317.3	313.5	309.9	313.5	309.9	309.9	313.5
65°	204.3	207.9	207.9	204.3	211.5	204.3	207.9	211.5	215.1	211.5	215.1
67.5°	138.5	138.5	142.3	145.9	142.3	145.9	149.5	145.9	149.5	156.8	149.5
70°	102.1	105.8	105.8	102.1	98.4	102.1	98.4	109.4	109.4	109.4	116.6
72.5°	65.6	65.6	62.0	62.0	62.0	62.0	62.0	72.9	65.6	62.0	69.3
75°	36.5	40.1	40.1	29.1	32.9	40.1	29.1	32.9	43.8	36.5	43.8
77.5°	21.9	21.9	21.9	21.9	21.9	21.9	21.9	25.5	25.5	25.5	29.1
80°	18.2	14.6	14.6	11.0	14.6	14.6	14.6	21.9	18.2	18.2	21.9
82.5°	7.4	7.4	3.6	0.0	7.4	7.4	7.4	7.4	7.4	7.4	14.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	3.6	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4	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: P248908

CATALOG NUMBER: LD8B150D010 ER8B150850 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	7467.2	7467.2	7467.2	7467.2	7467.2	7467.2	7467.2	7467.2	7467.2	7467.2	7467.2
2.5°	7459.8	7459.8	7456.2	7449.0	7434.3	7434.3	7430.7	7419.7	7412.5	7408.8	7408.8
5°	7423.3	7408.8	7394.2	7354.2	7354.2	7346.8	7325.0	7310.3	7303.1	7284.8	7277.6
7.5°	7390.6	7346.8	7321.3	7295.8	7263.1	7248.4	7222.8	7211.9	7186.4	7168.2	7157.3
10°	7310.3	7281.2	7248.4	7208.3	7182.8	7153.7	7124.4	7102.6	7069.8	7051.5	7036.9
12.5°	7255.7	7211.9	7182.8	7138.9	7095.3	7069.8	7029.7	7004.2	6971.3	6934.8	6912.9
15°	7204.7	7157.3	7117.2	7069.8	7022.3	6993.2	6945.8	6916.7	6869.3	6832.8	6807.3
17.5°	7128.1	7087.9	7044.2	6985.9	6942.2	6905.7	6854.6	6818.2	6774.4	6727.0	6701.5
20°	7047.8	7000.4	6956.8	6898.4	6854.6	6810.9	6759.9	6719.8	6668.6	6624.9	6595.8
22.5°	6942.2	6887.4	6850.9	6792.6	6741.5	6694.3	6646.8	6599.4	6552.0	6515.5	6482.7
25°	6789.0	6730.6	6690.5	6643.1	6595.8	6559.4	6501.0	6471.9	6424.4	6391.6	6358.7
27.5°	6570.2	6526.5	6490.0	6442.6	6402.5	6373.4	6329.6	6300.5	6260.3	6231.1	6205.6
30°	6249.4	6213.0	6180.1	6132.7	6103.6	6078.1	6037.8	6012.3	5983.2	5950.3	5943.1
32.5°	5819.2	5789.9	5757.2	5724.3	5702.4	5687.9	5655.0	5640.4	5611.3	5593.0	5574.9
35°	5170.1	5144.6	5126.4	5111.9	5104.5	5108.1	5100.9	5115.5	5122.7	5119.1	5122.7
37.5°	4320.7	4306.0	4313.3	4324.3	4360.7	4408.2	4451.8	4517.4	4561.2	4605.1	4645.1
40°	3372.6	3383.6	3412.7	3478.3	3573.1	3679.0	3777.4	3901.4	4025.3	4112.8	4193.0
42.5°	2545.0	2577.8	2650.6	2745.5	2887.8	3044.4	3197.7	3379.9	3529.5	3675.2	3777.4
45°	1914.2	1957.9	2052.7	2184.0	2340.7	2523.1	2716.4	2920.5	3099.2	3248.7	3361.7
47.5°	1491.3	1531.4	1626.2	1764.7	1957.9	2147.6	2348.1	2559.5	2745.5	2891.4	2989.8
50°	1177.6	1228.7	1312.6	1458.4	1651.7	1852.2	2060.1	2267.8	2442.9	2566.9	2654.4
52.5°	926.1	973.5	1053.7	1206.9	1403.8	1604.3	1797.5	2001.7	2154.8	2275.1	2333.5
55°	718.3	762.1	845.8	973.5	1159.5	1356.4	1549.5	1724.7	1866.8	1954.3	2009.1
57.5°	546.9	579.7	638.1	765.7	933.5	1115.7	1279.8	1454.8	1564.2	1626.2	1662.5
60°	415.7	441.2	503.2	601.7	754.7	911.6	1050.1	1181.4	1268.9	1319.9	1356.4
62.5°	313.5	342.8	386.4	470.3	586.9	714.7	831.3	929.7	1002.7	1035.5	1061.0
65°	215.1	237.0	269.8	335.4	433.9	525.0	616.2	689.1	736.6	773.0	787.6
67.5°	160.4	175.0	193.3	244.3	313.5	386.4	448.4	499.5	550.6	565.2	590.7
70°	120.4	131.3	149.5	185.9	226.0	277.0	328.2	357.3	393.8	419.3	426.7
72.5°	76.5	80.1	98.4	120.4	153.1	185.9	218.8	244.3	266.2	280.8	288.0
75°	43.8	65.6	65.6	87.5	109.4	124.0	145.9	164.0	175.0	185.9	185.9
77.5°	29.1	40.1	43.8	54.6	65.6	83.9	102.1	113.0	124.0	127.6	127.6
80°	25.5	29.1	29.1	40.1	47.4	62.0	72.9	76.5	83.9	87.5	94.8
82.5°	11.0	14.6	18.2	29.1	32.9	32.9	43.8	47.4	54.6	58.4	58.4
85°	3.6	7.4	7.4	11.0	18.2	21.9	25.5	29.1	32.9	32.9	36.5
87.5°	3.6	3.6	0.0	3.6	7.4	7.4	14.6	14.6	14.6	21.9	21.9
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: P248908

CATALOG NUMBER: LD8B150D010 ER8B150850 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	7467.2	7467.2	7467.2	7467.2	7467.2	7467.2	7467.2
2.5°	7401.6	7405.2	7390.6	7387.0	7379.7	7383.3	7390.6
5°	7266.7	7270.3	7255.7	7241.1	7241.1	7237.4	7241.1
7.5°	7138.9	7142.7	7120.8	7113.4	7098.9	7102.6	7102.6
10°	7011.4	7011.4	6978.7	6974.9	6964.0	6960.4	6960.4
12.5°	6887.4	6876.5	6850.9	6836.4	6843.7	6821.8	6821.8
15°	6778.0	6759.9	6727.0	6716.0	6697.9	6690.5	6690.5
17.5°	6665.0	6650.4	6621.3	6599.4	6577.5	6573.9	6577.5
20°	6555.6	6541.0	6504.6	6490.0	6471.9	6471.9	6464.5
22.5°	6446.2	6431.6	6398.9	6388.0	6362.5	6362.5	6366.1
25°	6333.2	6322.2	6285.8	6278.6	6275.0	6260.3	6267.6
27.5°	6180.1	6172.8	6143.6	6132.7	6118.1	6114.5	6121.7
30°	5899.3	5888.4	5866.6	5855.6	5830.1	5833.7	5840.9
32.5°	5549.3	5534.8	5505.5	5494.6	5472.8	5465.5	5469.1
35°	5111.9	5100.9	5075.4	5075.4	5053.5	5046.1	5053.5
37.5°	4667.1	4677.9	4667.1	4677.9	4667.1	4663.3	4667.1
40°	4247.7	4287.8	4295.0	4335.2	4320.7	4342.4	4338.8
42.5°	3846.6	3912.2	3937.8	3970.5	3963.3	3977.9	3988.9
45°	3441.8	3496.6	3522.1	3544.0	3547.6	3555.0	3558.6
47.5°	3059.0	3102.8	3106.4	3131.9	3128.3	3128.3	3139.3
50°	2701.8	2730.9	2738.1	2756.4	2741.9	2734.5	2738.1
52.5°	2370.0	2399.1	2391.8	2399.1	2380.9	2373.6	2377.2
55°	2030.8	2045.4	2045.4	2045.4	2023.6	2023.6	2023.6
57.5°	1684.4	1688.2	1680.8	1684.4	1680.8	1658.9	1655.3
60°	1367.3	1367.3	1363.6	1367.3	1356.4	1345.4	1345.4
62.5°	1068.2	1075.6	1090.1	1075.6	1068.2	1075.6	1064.6
65°	798.6	813.1	809.4	816.7	813.1	813.1	805.8
67.5°	601.7	605.3	608.9	612.6	612.6	612.6	612.6
70°	441.2	452.2	448.4	448.4	448.4	448.4	470.3
72.5°	295.3	309.9	306.3	313.5	313.5	320.9	313.5
75°	200.5	215.1	207.9	218.8	215.1	207.9	226.0
77.5°	134.9	142.3	145.9	149.5	145.9	142.3	145.9
80°	94.8	102.1	98.4	102.1	102.1	102.1	105.8
82.5°	58.4	69.3	65.6	69.3	65.6	69.3	69.3
85°	40.1	43.8	36.5	43.8	40.1	40.1	47.4
87.5°	25.5	21.9	21.9	25.5	21.9	25.5	21.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)