

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: P248998

Luminaire Tested: **LD8B150D010 ER8B150835 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248998
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 ER8B150835 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3500 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16081.0 lumens
Efficiency: N/A
Efficacy: 101.5 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

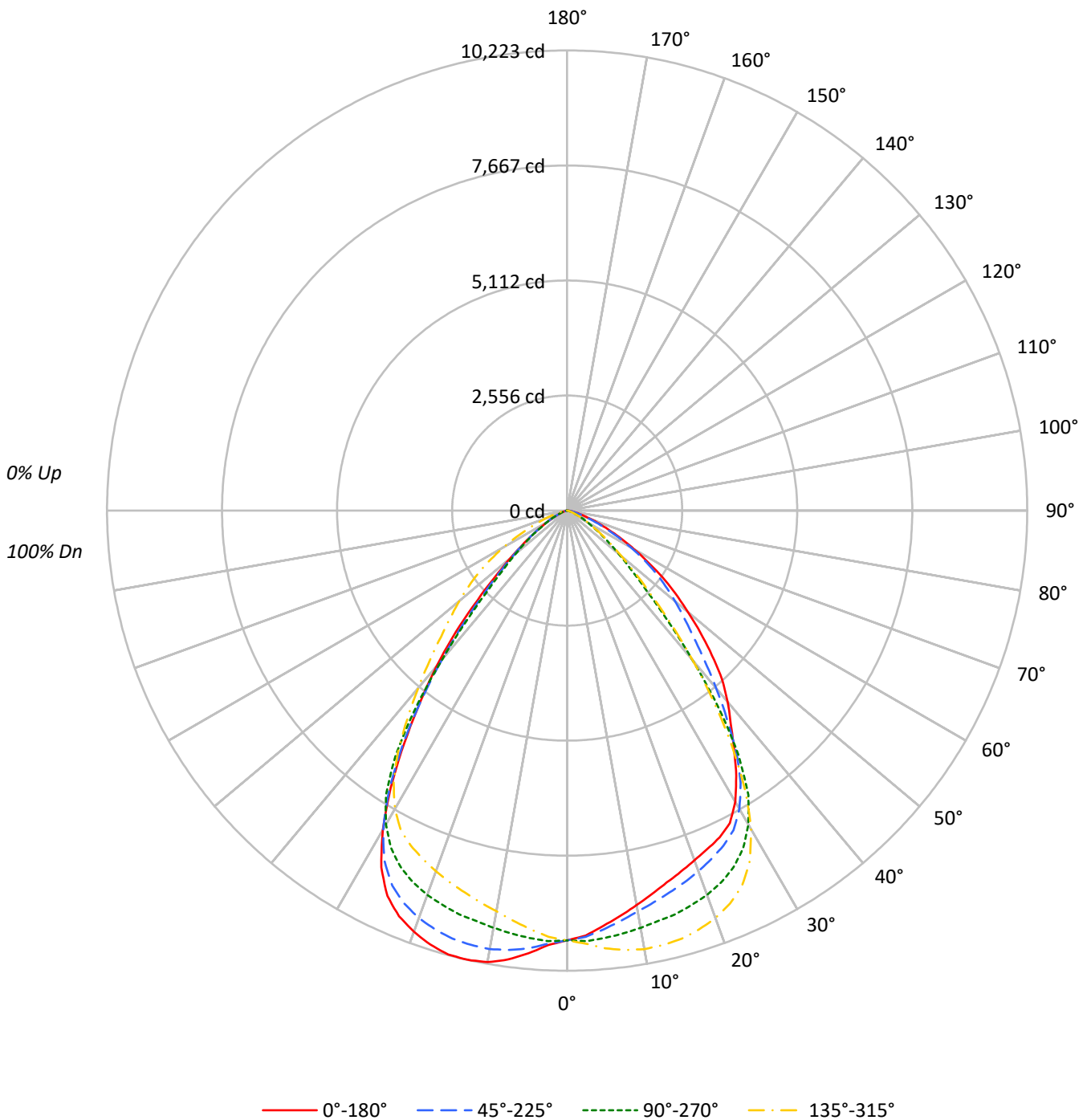
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	294388	294388	294388	294388
5°	286567	295079	305616	295079
10°	278639	294693	318922	294693
15°	273072	296441	325904	296441
20°	271215	298137	326742	298137
25°	272639	297537	321490	297537
30°	265900	286648	291797	286648
35°	243215	250055	237249	250055
40°	223297	173941	181642	173941
45°	198408	106114	122782	106114
50°	167938	70885	78719	70885
55°	139092	48369	51122	48369
60°	106083	32199	32483	32199
65°	75168	20065	18365	20065
70°	54213	13443	12199	13443
75°	34432	6672	5552	6672
80°	24026	4972	4120	4972
85°	21441	0	1628	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	908.7	5.7
10°-20°	2631.3	16.4
20°-30°	3984.4	24.8
30°-40°	3993.4	24.8
40°-50°	2507.6	15.6
50°-60°	1336.3	8.3
60°-70°	549.5	3.4
70°-80°	145.2	0.9
80°-90°	24.5	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°	7524.4	46.8
0°-40°	11517.8	71.6
0°-60°	15361.8	95.5
0°-90°	16081.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16081.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	9547	9547	9547	9547	9547	
5°	9258	9533	9873	9533	9258	873
15°	8554	9286	10209	9286	8554	2419
25°	8013	8745	9449	8745	8013	3675
35°	6461	6643	6302	6643	6461	4048
45°	4550	2433	2816	2433	4550	3499
55°	2587	900	951	900	2587	2307
65°	1030	275	252	275	1030	1069
75°	289	56	47	56	289	327
85°	61	0	5	0	61	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°	9546.8	9546.8	9546.8	9546.8	9546.8	9546.8	9546.8	9546.8	9546.8	9546.8	9546.8
2.5°	9448.9	9439.5	9434.9	9444.3	9448.9	9467.5	9462.9	9472.1	9472.1	9476.9	9486.1
5°	9257.8	9253.0	9257.8	9257.8	9276.4	9295.0	9290.4	9304.4	9313.7	9337.1	9346.3
7.5°	9080.7	9080.7	9075.9	9094.5	9103.9	9132.0	9127.2	9150.6	9164.6	9187.8	9220.4
10°	8898.8	8898.8	8903.4	8917.4	8922.2	8964.1	8964.1	8996.7	9015.3	9038.7	9080.7
12.5°	8721.7	8721.7	8749.7	8740.3	8759.0	8791.6	8805.6	8838.2	8866.2	8912.8	8954.9
15°	8553.8	8553.8	8563.2	8586.5	8600.5	8642.5	8665.7	8703.1	8735.7	8782.4	8843.0
17.5°	8409.4	8404.8	8409.4	8437.4	8465.4	8502.6	8521.2	8567.8	8600.5	8661.1	8717.1
20°	8264.9	8274.3	8274.3	8297.5	8316.1	8362.7	8381.4	8432.8	8470.0	8525.8	8591.3
22.5°	8139.0	8134.4	8134.4	8167.0	8181.0	8222.9	8241.5	8288.1	8330.1	8376.7	8437.4
25°	8013.1	8003.7	8022.5	8027.2	8036.4	8083.0	8097.0	8129.6	8171.6	8213.7	8274.3
27.5°	7826.6	7817.4	7822.0	7840.7	7854.7	7891.9	7901.3	7933.9	7966.5	8003.7	8055.2
30°	7467.7	7458.4	7453.8	7486.5	7500.5	7528.3	7542.3	7598.3	7607.5	7649.6	7686.8
32.5°	6992.2	6987.6	6997.0	7024.8	7038.8	7076.2	7094.8	7127.5	7150.7	7174.1	7211.3
35°	6460.9	6451.5	6460.9	6488.9	6488.9	6521.5	6535.5	6549.4	6544.8	6549.4	6540.1
37.5°	5966.8	5962.0	5966.8	5980.6	5966.8	5980.6	5966.8	5938.8	5887.6	5831.6	5775.5
40°	5547.2	5551.8	5524.0	5542.6	5491.2	5482.0	5430.7	5360.7	5258.3	5146.4	4987.9
42.5°	5099.8	5085.8	5067.1	5076.4	5034.5	5001.7	4917.9	4829.4	4698.8	4512.4	4321.1
45°	4549.7	4545.1	4535.7	4531.1	4503.0	4470.4	4400.4	4297.9	4153.5	3962.3	3733.8
47.5°	4013.6	3999.6	3999.6	4004.2	3971.6	3967.0	3910.9	3822.5	3696.6	3510.1	3272.4
50°	3500.7	3496.1	3505.5	3524.1	3500.7	3491.5	3454.3	3393.6	3281.8	3123.3	2899.4
52.5°	3039.3	3034.6	3044.0	3067.3	3057.9	3067.3	3030.0	2983.4	2908.8	2754.9	2559.2
55°	2587.2	2587.2	2587.2	2615.0	2615.0	2615.0	2596.4	2568.6	2498.6	2386.7	2205.0
57.5°	2116.3	2121.0	2149.0	2153.6	2149.0	2158.4	2153.6	2125.6	2079.1	1999.9	1860.0
60°	1720.1	1720.1	1734.1	1748.1	1743.3	1748.1	1748.1	1734.1	1687.5	1622.3	1510.4
62.5°	1361.1	1375.1	1365.7	1375.1	1393.8	1375.1	1365.7	1356.5	1323.9	1281.9	1188.6
65°	1030.2	1039.6	1039.6	1044.2	1034.8	1039.6	1021.0	1006.9	988.3	941.7	881.1
67.5°	783.2	783.2	783.2	783.2	778.4	773.8	769.2	755.2	722.6	704.0	638.5
70°	601.3	573.3	573.3	573.3	573.3	578.1	564.1	545.5	536.1	503.5	456.8
72.5°	400.8	410.2	400.8	400.8	391.6	396.2	377.6	368.2	359.0	340.4	312.4
75°	289.0	265.7	275.0	279.7	265.7	275.0	256.3	237.7	237.7	223.7	209.7
77.5°	186.5	181.9	186.5	191.1	186.5	181.9	172.5	163.1	163.1	158.5	144.5
80°	135.3	130.5	130.5	130.5	125.9	130.5	121.3	121.3	111.9	107.3	97.9
82.5°	88.6	88.6	83.8	88.6	83.8	88.6	74.6	74.6	74.6	69.8	60.6
85°	60.6	51.2	51.2	56.0	46.6	56.0	51.2	46.6	42.0	42.0	37.2
87.5°	28.0	32.6	28.0	32.6	28.0	28.0	32.6	28.0	28.0	18.6	18.6
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°	9546.8	9546.8	9546.8	9546.8	9546.8	9546.8	9546.8	9546.8	9546.8	9546.8	9546.8
2.5°	9500.2	9504.8	9504.8	9523.6	9532.8	9537.4	9537.4	9574.8	9560.8	9570.2	9579.4
5°	9365.1	9392.9	9402.3	9402.3	9453.5	9472.1	9490.8	9532.8	9537.4	9565.4	9598.0
7.5°	9234.4	9267.0	9285.8	9327.7	9360.3	9392.9	9448.9	9476.9	9504.8	9542.2	9584.0
10°	9108.5	9146.0	9183.2	9215.8	9267.0	9309.1	9346.3	9411.5	9444.3	9495.6	9551.4
12.5°	8987.5	9038.7	9071.3	9127.2	9183.2	9220.4	9276.4	9337.1	9388.3	9439.5	9504.8
15°	8880.2	8940.8	8978.1	9038.7	9099.3	9150.6	9211.2	9285.8	9323.1	9383.7	9444.3
17.5°	8763.6	8829.0	8875.6	8931.4	9006.1	9061.9	9113.3	9187.8	9234.4	9299.6	9369.7
20°	8642.5	8707.7	8763.6	8819.6	8894.2	8950.1	9010.7	9085.3	9136.6	9201.8	9257.8
22.5°	8498.0	8558.6	8619.1	8684.3	8759.0	8805.6	8875.6	8940.8	8996.7	9057.3	9113.3
25°	8311.5	8386.1	8432.8	8493.2	8553.8	8605.1	8679.7	8744.9	8791.6	8847.6	8898.8
27.5°	8092.4	8148.4	8185.6	8236.9	8297.5	8344.1	8400.0	8465.4	8512.0	8563.2	8600.5
30°	7719.4	7770.8	7803.4	7840.7	7901.3	7943.3	7989.9	8050.4	8083.0	8120.4	8153.0
32.5°	7229.9	7271.9	7290.6	7318.6	7360.6	7402.4	7439.8	7491.1	7505.1	7528.3	7528.3
35°	6521.5	6530.7	6526.1	6535.5	6554.2	6577.4	6610.0	6642.6	6661.2	6661.2	6647.4
37.5°	5691.7	5635.9	5575.2	5528.6	5514.6	5505.2	5524.0	5537.8	5556.6	5565.8	5542.6
40°	4829.4	4703.5	4568.3	4447.0	4363.2	4325.9	4311.9	4321.1	4321.1	4353.8	4353.8
42.5°	4088.2	3892.3	3692.0	3510.1	3388.8	3295.8	3253.8	3253.8	3258.4	3281.8	3295.8
45°	3472.9	3225.8	2992.6	2792.3	2624.4	2503.2	2447.3	2433.3	2428.7	2437.9	2470.5
47.5°	3002.0	2745.7	2503.2	2256.2	2079.1	1957.9	1906.6	1887.8	1869.2	1887.8	1892.6
50°	2633.8	2368.1	2111.7	1864.6	1678.1	1570.9	1505.6	1477.6	1473.0	1473.0	1482.4
52.5°	2298.1	2051.1	1794.8	1543.0	1347.1	1244.7	1184.0	1170.0	1151.4	1170.0	1170.0
55°	1981.1	1734.1	1482.4	1244.7	1081.4	974.3	918.3	899.7	890.3	904.3	904.3
57.5°	1636.3	1426.4	1193.4	978.9	815.8	741.2	699.2	676.0	671.2	680.6	671.2
60°	1342.5	1165.4	964.9	769.2	643.3	564.1	531.5	522.1	512.7	522.1	522.1
62.5°	1062.8	913.7	750.4	601.3	494.1	438.2	400.8	400.8	396.2	396.2	400.8
65°	787.8	671.2	554.7	428.8	345.0	303.0	275.0	275.0	270.3	275.0	270.3
67.5°	573.3	494.1	400.8	312.4	247.1	223.7	205.1	191.1	200.5	191.1	186.5
70°	419.6	354.2	289.0	237.7	191.1	167.9	153.9	149.1	139.9	139.9	139.9
72.5°	279.7	237.7	195.7	153.9	125.9	102.5	97.9	88.6	79.2	83.8	93.2
75°	186.5	158.5	139.9	111.9	83.8	83.8	56.0	56.0	46.6	56.0	42.0
77.5°	130.5	107.3	83.8	69.8	56.0	51.2	37.2	37.2	32.6	32.6	32.6
80°	93.2	79.2	60.6	51.2	37.2	37.2	32.6	28.0	23.2	23.2	28.0
82.5°	56.0	42.0	42.0	37.2	23.2	18.6	14.0	18.6	9.4	9.4	9.4
85°	32.6	28.0	23.2	14.0	9.4	9.4	4.6	0.0	4.6	4.6	0.0
87.5°	18.6	9.4	9.4	4.6	0.0	4.6	4.6	0.0	0.0	0.0	9.4
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°	9546.8	9546.8	9546.8	9546.8	9546.8	9546.8	9546.8	9546.8	9546.8	9546.8	9546.8
2.5°	9602.8	9598.0	9607.4	9607.4	9635.4	9630.6	9644.6	9644.6	9635.4	9640.0	9658.6
5°	9635.4	9649.4	9677.3	9700.7	9742.5	9761.3	9784.5	9807.9	9812.5	9826.5	9840.5
7.5°	9635.4	9682.1	9714.7	9756.5	9812.5	9845.1	9896.4	9938.4	9957.0	9980.2	10008.2
10°	9616.6	9663.2	9723.9	9770.5	9840.5	9891.8	9943.0	10008.2	10036.2	10073.5	10110.9
12.5°	9579.4	9630.6	9695.9	9756.5	9835.7	9882.4	9947.6	10008.2	10050.3	10101.5	10143.5
15°	9523.6	9584.0	9644.6	9705.3	9789.1	9845.1	9905.8	9975.6	10017.6	10073.5	10110.9
17.5°	9434.9	9500.2	9556.2	9612.0	9691.3	9756.5	9812.5	9877.8	9919.8	9966.4	10017.6
20°	9327.7	9388.3	9448.9	9495.6	9574.8	9630.6	9691.3	9751.9	9784.5	9793.9	9873.2
22.5°	9192.6	9234.4	9281.0	9355.7	9402.3	9453.5	9509.6	9565.4	9598.0	9649.4	9677.3
25°	8968.7	9010.7	9061.9	9094.5	9150.6	9192.6	9248.4	9309.1	9327.7	9365.1	9392.9
27.5°	8656.5	8679.7	8703.1	8730.9	8763.6	8787.0	8819.6	8847.6	8866.2	8884.8	8903.4
30°	8162.2	8162.2	8162.2	8143.6	8157.6	8171.6	8176.2	8171.6	8171.6	8167.0	8167.0
32.5°	7509.7	7472.5	7430.4	7393.2	7379.2	7360.6	7351.2	7337.2	7314.0	7300.0	7304.6
35°	6628.6	6544.8	6493.5	6446.9	6409.7	6381.7	6367.7	6353.6	6349.0	6330.4	6311.6
37.5°	5528.6	5468.0	5430.7	5402.7	5370.1	5342.1	5346.7	5351.5	5365.3	5356.1	5360.7
40°	4363.2	4349.2	4363.2	4330.5	4321.1	4330.5	4353.8	4386.6	4405.2	4423.8	4456.4
42.5°	3319.0	3342.2	3375.0	3375.0	3388.8	3407.6	3435.5	3486.9	3514.7	3547.3	3584.7
45°	2498.6	2526.6	2568.6	2582.4	2591.8	2615.0	2647.8	2689.7	2708.3	2736.3	2768.9
47.5°	1925.2	1943.9	1967.1	1990.5	2013.7	2023.1	2055.7	2055.7	2079.1	2097.7	2106.9
50°	1501.0	1519.6	1538.2	1552.2	1561.6	1575.7	1584.9	1598.9	1603.5	1612.9	1617.5
52.5°	1174.6	1198.0	1198.0	1207.3	1221.3	1235.3	1230.7	1235.3	1239.9	1239.9	1253.9
55°	918.3	918.3	932.3	932.3	941.7	936.9	941.7	941.7	941.7	941.7	946.3
57.5°	685.2	690.0	704.0	694.6	690.0	699.2	690.0	699.2	694.6	704.0	690.0
60°	526.7	526.7	531.5	531.5	536.1	536.1	536.1	531.5	531.5	526.7	526.7
62.5°	396.2	400.8	405.6	400.8	400.8	400.8	396.2	396.2	391.6	386.8	386.8
65°	265.7	261.1	270.3	261.1	265.7	265.7	261.1	265.7	251.7	256.3	251.7
67.5°	191.1	186.5	181.9	186.5	181.9	177.1	177.1	181.9	186.5	172.5	172.5
70°	125.9	130.5	125.9	130.5	135.3	135.3	130.5	125.9	130.5	121.3	125.9
72.5°	79.2	79.2	79.2	79.2	79.2	83.8	83.8	83.8	74.6	74.6	69.8
75°	37.2	51.2	42.0	37.2	51.2	51.2	46.6	46.6	42.0	42.0	42.0
77.5°	37.2	28.0	28.0	28.0	28.0	28.0	28.0	28.0	23.2	28.0	23.2
80°	18.6	18.6	18.6	14.0	18.6	18.6	23.2	18.6	18.6	14.0	23.2
82.5°	9.4	9.4	9.4	0.0	4.6	9.4	9.4	4.6	9.4	9.4	4.6
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: P248998

CATALOG NUMBER: LD8B150D010 ER8B150835 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	9546.8	9546.8	9546.8	9546.8	9546.8	9546.8	9546.8	9546.8	9546.8	9546.8	9546.8
2.5°	9654.0	9649.4	9654.0	9658.6	9654.0	9649.4	9654.0	9658.6	9640.0	9635.4	9644.6
5°	9859.1	9859.1	9868.4	9873.2	9868.4	9859.1	9859.1	9840.5	9826.5	9812.5	9807.9
7.5°	10036.2	10045.6	10054.9	10059.5	10054.9	10045.6	10036.2	10008.2	9980.2	9957.0	9938.4
10°	10143.5	10157.5	10176.1	10185.3	10176.1	10157.5	10143.5	10110.9	10073.5	10036.2	10008.2
12.5°	10190.1	10204.1	10227.4	10222.7	10227.4	10204.1	10190.1	10143.5	10101.5	10050.3	10008.2
15°	10157.5	10176.1	10199.3	10208.7	10199.3	10176.1	10157.5	10110.9	10073.5	10017.6	9975.6
17.5°	10054.9	10082.9	10096.9	10110.9	10096.9	10082.9	10054.9	10017.6	9966.4	9919.8	9877.8
20°	9915.0	9933.8	9952.4	9957.0	9952.4	9933.8	9915.0	9873.2	9793.9	9784.5	9751.9
22.5°	9714.7	9728.7	9770.5	9756.5	9770.5	9728.7	9714.7	9677.3	9649.4	9598.0	9565.4
25°	9425.5	9439.5	9444.3	9448.9	9444.3	9439.5	9425.5	9392.9	9365.1	9327.7	9309.1
27.5°	8926.8	8926.8	8936.1	8940.8	8936.1	8926.8	8926.8	8903.4	8884.8	8866.2	8847.6
30°	8171.6	8171.6	8171.6	8195.0	8171.6	8171.6	8171.6	8167.0	8167.0	8171.6	8171.6
32.5°	7300.0	7290.6	7281.3	7290.6	7281.3	7290.6	7300.0	7304.6	7300.0	7314.0	7337.2
35°	6311.6	6307.0	6321.0	6302.4	6321.0	6307.0	6311.6	6311.6	6330.4	6349.0	6353.6
37.5°	5365.3	5356.1	5374.7	5356.1	5374.7	5356.1	5365.3	5360.7	5356.1	5365.3	5351.5
40°	4465.8	4475.0	4475.0	4512.4	4475.0	4475.0	4465.8	4456.4	4423.8	4405.2	4386.6
42.5°	3603.4	3631.4	3622.0	3650.0	3622.0	3631.4	3603.4	3584.7	3547.3	3514.7	3486.9
45°	2787.5	2806.3	2806.3	2815.5	2806.3	2806.3	2787.5	2768.9	2736.3	2708.3	2689.7
47.5°	2139.6	2139.6	2139.6	2144.4	2139.6	2139.6	2139.6	2106.9	2097.7	2079.1	2055.7
50°	1626.9	1631.5	1636.3	1640.9	1636.3	1631.5	1626.9	1617.5	1612.9	1603.5	1598.9
52.5°	1249.3	1253.9	1244.7	1253.9	1244.7	1253.9	1249.3	1253.9	1239.9	1239.9	1235.3
55°	946.3	941.7	946.3	950.9	946.3	941.7	946.3	946.3	941.7	941.7	941.7
57.5°	694.6	685.2	685.2	685.2	685.2	685.2	694.6	690.0	704.0	694.6	699.2
60°	517.5	522.1	522.1	526.7	522.1	522.1	517.5	526.7	526.7	531.5	531.5
62.5°	382.2	396.2	386.8	396.2	386.8	396.2	382.2	386.8	386.8	391.6	396.2
65°	247.1	247.1	247.1	251.7	247.1	247.1	247.1	251.7	256.3	251.7	265.7
67.5°	167.9	172.5	181.9	177.1	181.9	172.5	167.9	172.5	172.5	186.5	181.9
70°	135.3	121.3	121.3	135.3	121.3	121.3	135.3	125.9	121.3	130.5	125.9
72.5°	79.2	69.8	79.2	79.2	79.2	69.8	79.2	69.8	74.6	74.6	83.8
75°	42.0	37.2	32.6	46.6	32.6	37.2	42.0	42.0	42.0	42.0	46.6
77.5°	28.0	23.2	32.6	32.6	32.6	23.2	28.0	23.2	28.0	23.2	28.0
80°	14.0	18.6	14.0	23.2	14.0	18.6	14.0	23.2	14.0	18.6	18.6
82.5°	4.6	9.4	9.4	9.4	9.4	9.4	4.6	4.6	9.4	9.4	4.6
85°	0.0	9.4	4.6	4.6	4.6	9.4	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	0.0	0.0	4.6	0.0	0.0	4.6	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: P248998

CATALOG NUMBER: LD8B150D010 ER8B150835 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	9546.8	9546.8	9546.8	9546.8	9546.8	9546.8	9546.8	9546.8	9546.8	9546.8	9546.8
2.5°	9644.6	9630.6	9635.4	9607.4	9607.4	9598.0	9602.8	9579.4	9570.2	9560.8	9574.8
5°	9784.5	9761.3	9742.5	9700.7	9677.3	9649.4	9635.4	9598.0	9565.4	9537.4	9532.8
7.5°	9896.4	9845.1	9812.5	9756.5	9714.7	9682.1	9635.4	9584.0	9542.2	9504.8	9476.9
10°	9943.0	9891.8	9840.5	9770.5	9723.9	9663.2	9616.6	9551.4	9495.6	9444.3	9411.5
12.5°	9947.6	9882.4	9835.7	9756.5	9695.9	9630.6	9579.4	9504.8	9439.5	9388.3	9337.1
15°	9905.8	9845.1	9789.1	9705.3	9644.6	9584.0	9523.6	9444.3	9383.7	9323.1	9285.8
17.5°	9812.5	9756.5	9691.3	9612.0	9556.2	9500.2	9434.9	9369.7	9299.6	9234.4	9187.8
20°	9691.3	9630.6	9574.8	9495.6	9448.9	9388.3	9327.7	9257.8	9201.8	9136.6	9085.3
22.5°	9509.6	9453.5	9402.3	9355.7	9281.0	9234.4	9192.6	9113.3	9057.3	8996.7	8940.8
25°	9248.4	9192.6	9150.6	9094.5	9061.9	9010.7	8968.7	8898.8	8847.6	8791.6	8744.9
27.5°	8819.6	8787.0	8763.6	8730.9	8703.1	8679.7	8656.5	8600.5	8563.2	8512.0	8465.4
30°	8176.2	8171.6	8157.6	8143.6	8162.2	8162.2	8162.2	8153.0	8120.4	8083.0	8050.4
32.5°	7351.2	7360.6	7379.2	7393.2	7430.4	7472.5	7509.7	7528.3	7528.3	7505.1	7491.1
35°	6367.7	6381.7	6409.7	6446.9	6493.5	6544.8	6628.6	6647.4	6661.2	6661.2	6642.6
37.5°	5346.7	5342.1	5370.1	5402.7	5430.7	5468.0	5528.6	5542.6	5565.8	5556.6	5537.8
40°	4353.8	4330.5	4321.1	4330.5	4363.2	4349.2	4363.2	4353.8	4353.8	4321.1	4321.1
42.5°	3435.5	3407.6	3388.8	3375.0	3375.0	3342.2	3319.0	3295.8	3281.8	3258.4	3253.8
45°	2647.8	2615.0	2591.8	2582.4	2568.6	2526.6	2498.6	2470.5	2437.9	2428.7	2433.3
47.5°	2055.7	2023.1	2013.7	1990.5	1967.1	1943.9	1925.2	1892.6	1887.8	1869.2	1887.8
50°	1584.9	1575.7	1561.6	1552.2	1538.2	1519.6	1501.0	1482.4	1473.0	1473.0	1477.6
52.5°	1230.7	1235.3	1221.3	1207.3	1198.0	1198.0	1174.6	1170.0	1170.0	1151.4	1170.0
55°	941.7	936.9	941.7	932.3	932.3	918.3	918.3	904.3	904.3	890.3	899.7
57.5°	690.0	699.2	690.0	694.6	704.0	690.0	685.2	671.2	680.6	671.2	676.0
60°	536.1	536.1	536.1	531.5	531.5	526.7	526.7	522.1	522.1	512.7	522.1
62.5°	396.2	400.8	400.8	400.8	405.6	400.8	396.2	400.8	396.2	396.2	400.8
65°	261.1	265.7	265.7	261.1	270.3	261.1	265.7	270.3	275.0	270.3	275.0
67.5°	177.1	177.1	181.9	186.5	181.9	186.5	191.1	186.5	191.1	200.5	191.1
70°	130.5	135.3	135.3	130.5	125.9	130.5	125.9	139.9	139.9	139.9	149.1
72.5°	83.8	83.8	79.2	79.2	79.2	79.2	79.2	93.2	83.8	79.2	88.6
75°	46.6	51.2	51.2	37.2	42.0	51.2	37.2	42.0	56.0	46.6	56.0
77.5°	28.0	28.0	28.0	28.0	28.0	28.0	37.2	32.6	32.6	32.6	37.2
80°	23.2	18.6	18.6	14.0	18.6	18.6	18.6	28.0	23.2	23.2	28.0
82.5°	9.4	9.4	4.6	0.0	9.4	9.4	9.4	9.4	9.4	9.4	18.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	4.6	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4	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: P248998

CATALOG NUMBER: LD8B150D010 ER8B150835 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	9546.8	9546.8	9546.8	9546.8	9546.8	9546.8	9546.8	9546.8	9546.8	9546.8	9546.8
2.5°	9537.4	9537.4	9532.8	9523.6	9504.8	9504.8	9500.2	9486.1	9476.9	9472.1	9472.1
5°	9490.8	9472.1	9453.5	9402.3	9402.3	9392.9	9365.1	9346.3	9337.1	9313.7	9304.4
7.5°	9448.9	9392.9	9360.3	9327.7	9285.8	9267.0	9234.4	9220.4	9187.8	9164.6	9150.6
10°	9346.3	9309.1	9267.0	9215.8	9183.2	9146.0	9108.5	9080.7	9038.7	9015.3	8996.7
12.5°	9276.4	9220.4	9183.2	9127.2	9071.3	9038.7	8987.5	8954.9	8912.8	8866.2	8838.2
15°	9211.2	9150.6	9099.3	9038.7	8978.1	8940.8	8880.2	8843.0	8782.4	8735.7	8703.1
17.5°	9113.3	9061.9	9006.1	8931.4	8875.6	8829.0	8763.6	8717.1	8661.1	8600.5	8567.8
20°	9010.7	8950.1	8894.2	8819.6	8763.6	8707.7	8642.5	8591.3	8525.8	8470.0	8432.8
22.5°	8875.6	8805.6	8759.0	8684.3	8619.1	8558.6	8498.0	8437.4	8376.7	8330.1	8288.1
25°	8679.7	8605.1	8553.8	8493.2	8432.8	8386.1	8311.5	8274.3	8213.7	8171.6	8129.6
27.5°	8400.0	8344.1	8297.5	8236.9	8185.6	8148.4	8092.4	8055.2	8003.7	7966.5	7933.9
30°	7989.9	7943.3	7901.3	7840.7	7803.4	7770.8	7719.4	7686.8	7649.6	7607.5	7598.3
32.5°	7439.8	7402.4	7360.6	7318.6	7290.6	7271.9	7229.9	7211.3	7174.1	7150.7	7127.5
35°	6610.0	6577.4	6554.2	6535.5	6526.1	6530.7	6521.5	6540.1	6549.4	6544.8	6549.4
37.5°	5524.0	5505.2	5514.6	5528.6	5575.2	5635.9	5691.7	5775.5	5831.6	5887.6	5938.8
40°	4311.9	4325.9	4363.2	4447.0	4568.3	4703.5	4829.4	4987.9	5146.4	5258.3	5360.7
42.5°	3253.8	3295.8	3388.8	3510.1	3692.0	3892.3	4088.2	4321.1	4512.4	4698.8	4829.4
45°	2447.3	2503.2	2624.4	2792.3	2992.6	3225.8	3472.9	3733.8	3962.3	4153.5	4297.9
47.5°	1906.6	1957.9	2079.1	2256.2	2503.2	2745.7	3002.0	3272.4	3510.1	3696.6	3822.5
50°	1505.6	1570.9	1678.1	1864.6	2111.7	2368.1	2633.8	2899.4	3123.3	3281.8	3393.6
52.5°	1184.0	1244.7	1347.1	1543.0	1794.8	2051.1	2298.1	2559.2	2754.9	2908.8	2983.4
55°	918.3	974.3	1081.4	1244.7	1482.4	1734.1	1981.1	2205.0	2386.7	2498.6	2568.6
57.5°	699.2	741.2	815.8	978.9	1193.4	1426.4	1636.3	1860.0	1999.9	2079.1	2125.6
60°	531.5	564.1	643.3	769.2	964.9	1165.4	1342.5	1510.4	1622.3	1687.5	1734.1
62.5°	400.8	438.2	494.1	601.3	750.4	913.7	1062.8	1188.6	1281.9	1323.9	1356.5
65°	275.0	303.0	345.0	428.8	554.7	671.2	787.8	881.1	941.7	988.3	1006.9
67.5°	205.1	223.7	247.1	312.4	400.8	494.1	573.3	638.5	704.0	722.6	755.2
70°	153.9	167.9	191.1	237.7	289.0	354.2	419.6	456.8	503.5	536.1	545.5
72.5°	97.9	102.5	125.9	153.9	195.7	237.7	279.7	312.4	340.4	359.0	368.2
75°	56.0	83.8	83.8	111.9	139.9	158.5	186.5	209.7	223.7	237.7	237.7
77.5°	37.2	51.2	56.0	69.8	83.8	107.3	130.5	144.5	158.5	163.1	163.1
80°	32.6	37.2	37.2	51.2	60.6	79.2	93.2	97.9	107.3	111.9	121.3
82.5°	14.0	18.6	23.2	37.2	42.0	42.0	56.0	60.6	69.8	74.6	74.6
85°	4.6	9.4	9.4	14.0	23.2	28.0	32.6	37.2	42.0	42.0	46.6
87.5°	4.6	4.6	0.0	4.6	9.4	9.4	18.6	18.6	18.6	28.0	28.0
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: P248998

CATALOG NUMBER: LD8B150D010 ER8B150835 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	9546.8	9546.8	9546.8	9546.8	9546.8	9546.8	9546.8
2.5°	9462.9	9467.5	9448.9	9444.3	9434.9	9439.5	9448.9
5°	9290.4	9295.0	9276.4	9257.8	9257.8	9253.0	9257.8
7.5°	9127.2	9132.0	9103.9	9094.5	9075.9	9080.7	9080.7
10°	8964.1	8964.1	8922.2	8917.4	8903.4	8898.8	8898.8
12.5°	8805.6	8791.6	8759.0	8740.3	8749.7	8721.7	8721.7
15°	8665.7	8642.5	8600.5	8586.5	8563.2	8553.8	8553.8
17.5°	8521.2	8502.6	8465.4	8437.4	8409.4	8404.8	8409.4
20°	8381.4	8362.7	8316.1	8297.5	8274.3	8274.3	8264.9
22.5°	8241.5	8222.9	8181.0	8167.0	8134.4	8134.4	8139.0
25°	8097.0	8083.0	8036.4	8027.2	8022.5	8003.7	8013.1
27.5°	7901.3	7891.9	7854.7	7840.7	7822.0	7817.4	7826.6
30°	7542.3	7528.3	7500.5	7486.5	7453.8	7458.4	7467.7
32.5°	7094.8	7076.2	7038.8	7024.8	6997.0	6987.6	6992.2
35°	6535.5	6521.5	6488.9	6488.9	6460.9	6451.5	6460.9
37.5°	5966.8	5980.6	5966.8	5980.6	5966.8	5962.0	5966.8
40°	5430.7	5482.0	5491.2	5542.6	5524.0	5551.8	5547.2
42.5°	4917.9	5001.7	5034.5	5076.4	5067.1	5085.8	5099.8
45°	4400.4	4470.4	4503.0	4531.1	4535.7	4545.1	4549.7
47.5°	3910.9	3967.0	3971.6	4004.2	3999.6	3999.6	4013.6
50°	3454.3	3491.5	3500.7	3524.1	3505.5	3496.1	3500.7
52.5°	3030.0	3067.3	3057.9	3067.3	3044.0	3034.6	3039.3
55°	2596.4	2615.0	2615.0	2615.0	2587.2	2587.2	2587.2
57.5°	2153.6	2158.4	2149.0	2153.6	2149.0	2121.0	2116.3
60°	1748.1	1748.1	1743.3	1748.1	1734.1	1720.1	1720.1
62.5°	1365.7	1375.1	1393.8	1375.1	1365.7	1375.1	1361.1
65°	1021.0	1039.6	1034.8	1044.2	1039.6	1039.6	1030.2
67.5°	769.2	773.8	778.4	783.2	783.2	783.2	783.2
70°	564.1	578.1	573.3	573.3	573.3	573.3	601.3
72.5°	377.6	396.2	391.6	400.8	400.8	410.2	400.8
75°	256.3	275.0	265.7	279.7	275.0	265.7	289.0
77.5°	172.5	181.9	186.5	191.1	186.5	181.9	186.5
80°	121.3	130.5	125.9	130.5	130.5	130.5	135.3
82.5°	74.6	88.6	83.8	88.6	83.8	88.6	88.6
85°	51.2	56.0	46.6	56.0	51.2	51.2	60.6
87.5°	32.6	28.0	28.0	32.6	28.0	32.6	28.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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