

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: P248793

Luminaire Tested: **LD8B200D010 ER8B200840 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248793
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: LD8B200D010 ER8B200840 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 4000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19886.0 lumens
Efficiency: N/A
Efficacy: 89.1 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

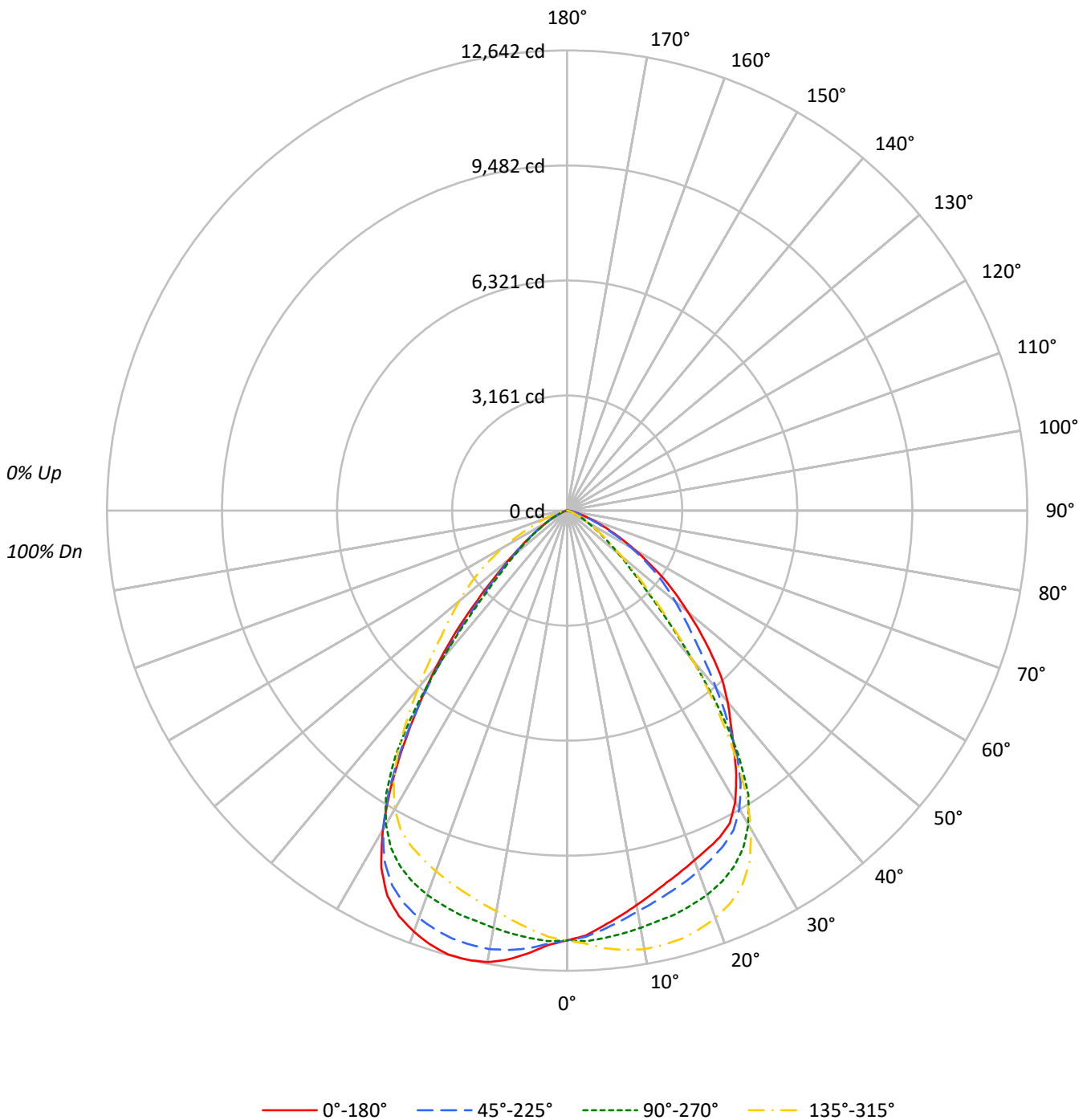
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	364044	364044	364044	364044
5°	354375	364899	377928	364899
10°	344570	364422	394384	364422
15°	337687	366584	403019	366584
20°	335389	368683	404055	368683
25°	337152	367940	397561	367940
30°	328814	354472	360842	354472
35°	300762	309221	293388	309221
40°	276134	215101	224625	215101
45°	245354	131224	151834	131224
50°	207674	87656	97342	87656
55°	172004	59815	63218	59815
60°	131184	39816	40167	39816
65°	92950	24808	22714	24808
70°	67042	16625	15084	16625
75°	42570	8257	6875	8257
80°	29709	6144	5097	6144
85°	26536	0	2017	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1123.7	5.7
10°-20°	3254.0	16.4
20°-30°	4927.2	24.8
30°-40°	4938.3	24.8
40°-50°	3101.0	15.6
50°-60°	1652.5	8.3
60°-70°	679.5	3.4
70°-80°	179.5	0.9
80°-90°	30.4	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°	9304.8	46.8
0°-40°	14243.1	71.6
0°-60°	18996.6	95.5
0°-90°	19886.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19886.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	11806	11806	11806	11806	11806	
5°	11448	11788	12209	11788	11448	###
15°	10578	11483	12624	11483	10578	2992
25°	9909	10814	11685	10814	9909	4545
35°	7990	8214	7794	8214	7990	5005
45°	5626	3009	3482	3009	5626	4327
55°	3199	1113	1176	1113	3199	2852
65°	1274	340	311	340	1274	1321
75°	357	69	58	69	357	405
85°	75	0	6	0	75	82
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°	11805.7	11805.7	11805.7	11805.7	11805.7	11805.7	11805.7	11805.7	11805.7	11805.7	11805.7
2.5°	11684.7	11673.1	11667.4	11679.0	11684.7	11707.7	11702.0	11713.4	11713.4	11719.3	11730.7
5°	11448.4	11442.4	11448.4	11448.4	11471.4	11494.4	11488.7	11506.0	11517.4	11546.4	11557.7
7.5°	11229.4	11229.4	11223.4	11246.4	11258.1	11292.7	11286.8	11315.7	11333.0	11361.8	11402.1
10°	11004.4	11004.4	11010.1	11027.4	11033.4	11085.1	11085.1	11125.4	11148.4	11177.4	11229.4
12.5°	10785.4	10785.4	10820.1	10808.4	10831.5	10871.8	10889.1	10929.4	10964.1	11021.7	11073.7
15°	10577.8	10577.8	10589.4	10618.1	10635.5	10687.4	10716.1	10762.4	10802.7	10860.4	10935.4
17.5°	10399.1	10393.4	10399.1	10433.8	10468.4	10514.5	10537.5	10595.1	10635.5	10710.4	10779.7
20°	10220.5	10232.1	10232.1	10260.8	10283.8	10341.5	10364.5	10428.1	10474.1	10543.2	10624.1
22.5°	10064.8	10059.1	10059.1	10099.5	10116.8	10168.5	10191.5	10249.2	10301.1	10358.8	10433.8
25°	9909.2	9897.5	9920.8	9926.5	9937.9	9995.5	10012.9	10053.2	10105.2	10157.1	10232.1
27.5°	9678.5	9667.2	9672.9	9695.9	9713.2	9759.2	9770.8	9811.2	9851.5	9897.5	9961.1
30°	9234.6	9223.2	9217.5	9257.9	9275.2	9309.6	9326.9	9396.2	9407.6	9459.5	9505.6
32.5°	8646.7	8641.0	8652.6	8687.0	8704.3	8750.6	8773.6	8813.9	8842.6	8871.6	8917.6
35°	7989.6	7978.0	7989.6	8024.3	8024.3	8064.6	8081.9	8099.0	8093.3	8099.0	8087.6
37.5°	7378.7	7372.7	7378.7	7395.8	7378.7	7395.8	7378.7	7344.0	7280.7	7211.4	7142.1
40°	6859.8	6865.5	6831.1	6854.1	6790.5	6779.1	6715.7	6629.1	6502.4	6364.1	6168.1
42.5°	6306.4	6289.1	6266.1	6277.5	6225.8	6185.2	6081.5	5972.1	5810.5	5580.2	5343.6
45°	5626.2	5620.5	5608.9	5603.2	5568.5	5528.2	5441.6	5314.9	5136.2	4899.9	4617.3
47.5°	4963.2	4945.9	4945.9	4951.6	4911.3	4905.6	4836.3	4726.9	4571.3	4340.6	4046.7
50°	4329.0	4323.3	4335.0	4358.0	4329.0	4317.6	4271.6	4196.6	4058.3	3862.3	3585.4
52.5°	3758.4	3752.7	3764.3	3793.0	3781.4	3793.0	3747.0	3689.3	3597.0	3406.7	3164.7
55°	3199.4	3199.4	3199.4	3233.8	3233.8	3233.8	3210.8	3176.4	3089.8	2951.4	2726.7
57.5°	2617.1	2622.8	2657.4	2663.1	2657.4	2669.1	2663.1	2628.5	2571.1	2473.1	2300.1
60°	2127.1	2127.1	2144.5	2161.8	2155.9	2161.8	2161.8	2144.5	2086.8	2006.1	1867.8
62.5°	1683.2	1700.5	1688.9	1700.5	1723.5	1700.5	1688.9	1677.5	1637.2	1585.2	1469.9
65°	1273.9	1285.5	1285.5	1291.2	1279.6	1285.5	1262.5	1245.2	1222.2	1164.5	1089.6
67.5°	968.5	968.5	968.5	968.5	962.6	956.9	951.2	933.9	893.6	870.5	789.6
70°	743.6	709.0	709.0	709.0	709.0	714.9	697.6	674.6	662.9	622.6	564.9
72.5°	495.7	507.3	495.7	495.7	484.3	490.0	467.0	455.3	443.9	420.9	386.3
75°	357.3	328.6	340.0	345.9	328.6	340.0	317.0	294.0	294.0	276.7	259.3
77.5°	230.6	224.9	230.6	236.3	230.6	224.9	213.3	201.7	201.7	196.0	178.7
80°	167.3	161.3	161.3	161.3	155.7	161.3	150.0	150.0	138.3	132.6	121.0
82.5°	109.6	109.6	103.7	109.6	103.7	109.6	92.3	92.3	92.3	86.4	75.0
85°	75.0	63.4	63.4	69.3	57.7	69.3	63.4	57.7	52.0	52.0	46.0
87.5°	34.6	40.3	34.6	40.3	34.6	34.6	40.3	34.6	34.6	23.0	23.0
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: P248793

CATALOG NUMBER: LD8B200D010 ER8B200840 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	11805.7	11805.7	11805.7	11805.7	11805.7	11805.7	11805.7	11805.7	11805.7	11805.7	11805.7
2.5°	11748.0	11753.7	11753.7	11777.0	11788.4	11794.1	11794.1	11840.3	11823.0	11834.6	11846.0
5°	11581.0	11615.4	11627.0	11627.0	11690.4	11713.4	11736.4	11788.4	11794.1	11828.7	11869.0
7.5°	11419.4	11459.7	11483.0	11534.7	11575.1	11615.4	11684.7	11719.3	11753.7	11800.0	11851.7
10°	11263.8	11310.0	11356.1	11396.4	11459.7	11511.7	11557.7	11638.4	11679.0	11742.3	11811.4
12.5°	11114.0	11177.4	11217.7	11286.8	11356.1	11402.1	11471.4	11546.4	11609.7	11673.1	11753.7
15°	10981.4	11056.4	11102.4	11177.4	11252.4	11315.7	11390.7	11483.0	11529.0	11604.0	11679.0
17.5°	10837.1	10918.1	10975.7	11044.8	11137.1	11206.1	11269.7	11361.8	11419.4	11500.1	11586.7
20°	10687.4	10768.1	10837.1	10906.4	10998.7	11067.8	11142.8	11235.1	11298.4	11379.1	11448.4
22.5°	10508.8	10583.7	10658.5	10739.2	10831.5	10889.1	10975.7	11056.4	11125.4	11200.4	11269.7
25°	10278.1	10370.4	10428.1	10502.8	10577.8	10641.2	10733.5	10814.1	10871.8	10941.1	11004.4
27.5°	10007.2	10076.5	10122.5	10185.8	10260.8	10318.5	10387.5	10468.4	10526.1	10589.4	10635.5
30°	9545.9	9609.5	9649.8	9695.9	9770.8	9822.8	9880.5	9955.2	9995.5	10041.8	10082.1
32.5°	8940.6	8992.6	9015.6	9050.3	9102.2	9153.9	9200.2	9263.6	9280.9	9309.6	9309.6
35°	8064.6	8076.0	8070.3	8081.9	8105.0	8133.7	8174.0	8214.3	8237.4	8237.4	8220.3
37.5°	7038.4	6969.4	6894.4	6836.7	6819.4	6807.8	6831.1	6848.1	6871.4	6882.8	6854.1
40°	5972.1	5816.5	5649.2	5499.2	5395.6	5349.5	5332.2	5343.6	5343.6	5383.9	5383.9
42.5°	5055.5	4813.3	4565.6	4340.6	4190.7	4075.6	4023.7	4023.7	4029.3	4058.3	4075.6
45°	4294.6	3989.0	3700.7	3453.0	3245.4	3095.4	3026.4	3009.1	3003.4	3014.8	3055.1
47.5°	3712.4	3395.4	3095.4	2790.1	2571.1	2421.1	2357.8	2334.5	2311.5	2334.5	2340.4
50°	3257.0	2928.4	2611.4	2305.8	2075.2	1942.5	1861.9	1827.2	1821.5	1821.5	1833.2
52.5°	2841.8	2536.4	2219.4	1908.1	1665.9	1539.2	1464.2	1446.9	1423.9	1446.9	1446.9
55°	2449.8	2144.5	1833.2	1539.2	1337.3	1204.9	1135.6	1112.6	1100.9	1118.3	1118.3
57.5°	2023.5	1763.9	1475.8	1210.6	1008.9	916.6	864.6	835.9	830.0	841.6	830.0
60°	1660.2	1441.2	1193.2	951.2	795.6	697.6	657.2	645.6	634.0	645.6	645.6
62.5°	1314.2	1129.9	928.0	743.6	611.0	541.9	495.7	495.7	490.0	490.0	495.7
65°	974.2	830.0	686.0	530.3	426.6	374.7	340.0	340.0	334.3	340.0	334.3
67.5°	709.0	611.0	495.7	386.3	305.6	276.7	253.6	236.3	247.9	236.3	230.6
70°	518.9	438.0	357.3	294.0	236.3	207.6	190.3	184.4	173.0	173.0	173.0
72.5°	345.9	294.0	242.0	190.3	155.7	126.7	121.0	109.6	98.0	103.7	115.3
75°	230.6	196.0	173.0	138.3	103.7	103.7	69.3	69.3	57.7	69.3	52.0
77.5°	161.3	132.6	103.7	86.4	69.3	63.4	46.0	46.0	40.3	40.3	40.3
80°	115.3	98.0	75.0	63.4	46.0	46.0	40.3	34.6	28.7	28.7	34.6
82.5°	69.3	52.0	52.0	46.0	28.7	23.0	17.3	23.0	11.6	11.6	11.6
85°	40.3	34.6	28.7	17.3	11.6	11.6	5.7	0.0	5.7	5.7	0.0
87.5°	23.0	11.6	11.6	5.7	0.0	5.7	5.7	0.0	0.0	0.0	11.6
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: P248793

CATALOG NUMBER: LD8B200D010 ER8B200840 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	11805.7	11805.7	11805.7	11805.7	11805.7	11805.7	11805.7	11805.7	11805.7	11805.7	11805.7
2.5°	11875.0	11869.0	11880.7	11880.7	11915.3	11909.4	11926.7	11926.7	11915.3	11921.0	11944.0
5°	11915.3	11932.6	11967.0	11996.0	12047.7	12071.0	12099.7	12128.6	12134.3	12151.6	12169.0
7.5°	11915.3	11973.0	12013.3	12065.0	12134.3	12174.6	12238.0	12290.0	12313.0	12341.7	12376.3
10°	11892.1	11949.7	12024.7	12082.3	12169.0	12232.3	12295.7	12376.3	12411.0	12457.0	12503.3
12.5°	11846.0	11909.4	11990.0	12065.0	12163.0	12220.7	12301.3	12376.3	12428.3	12491.6	12543.6
15°	11777.0	11851.7	11926.7	12001.7	12105.4	12174.6	12249.6	12336.0	12388.0	12457.0	12503.3
17.5°	11667.4	11748.0	11817.3	11886.4	11984.4	12065.0	12134.3	12215.0	12266.9	12324.6	12388.0
20°	11534.7	11609.7	11684.7	11742.3	11840.3	11909.4	11984.4	12059.3	12099.7	12111.3	12209.3
22.5°	11367.7	11419.4	11477.1	11569.4	11627.0	11690.4	11759.7	11828.7	11869.0	11932.6	11967.0
25°	11090.8	11142.8	11206.1	11246.4	11315.7	11367.7	11436.7	11511.7	11534.7	11581.0	11615.4
27.5°	10704.7	10733.5	10762.4	10796.8	10837.1	10866.1	10906.4	10941.1	10964.1	10987.1	11010.1
30°	10093.5	10093.5	10093.5	10070.5	10087.8	10105.2	10110.9	10105.2	10105.2	10099.5	10099.5
32.5°	9286.6	9240.5	9188.6	9142.6	9125.2	9102.2	9090.6	9073.3	9044.6	9027.2	9032.9
35°	8197.0	8093.3	8030.0	7972.3	7926.3	7891.7	7874.3	7857.0	7851.3	7828.3	7805.1
37.5°	6836.7	6761.8	6715.7	6681.1	6640.8	6606.1	6611.8	6617.7	6634.8	6623.4	6629.1
40°	5395.6	5378.2	5395.6	5355.2	5343.6	5355.2	5383.9	5424.5	5447.5	5470.5	5510.9
42.5°	4104.3	4133.0	4173.6	4173.6	4190.7	4213.9	4248.3	4311.9	4346.3	4386.7	4432.9
45°	3089.8	3124.4	3176.4	3193.4	3205.1	3233.8	3274.3	3326.1	3349.1	3383.7	3424.1
47.5°	2380.8	2403.8	2432.5	2461.5	2490.2	2501.8	2542.1	2542.1	2571.1	2594.1	2605.5
50°	1856.2	1879.2	1902.2	1919.5	1931.2	1948.5	1959.9	1977.2	1982.9	1994.5	2000.2
52.5°	1452.6	1481.5	1481.5	1492.9	1510.2	1527.6	1521.9	1527.6	1533.2	1533.2	1550.6
55°	1135.6	1135.6	1152.9	1152.9	1164.5	1158.6	1164.5	1164.5	1164.5	1164.5	1170.2
57.5°	847.3	853.2	870.5	858.9	853.2	864.6	853.2	864.6	858.9	870.5	853.2
60°	651.3	651.3	657.2	657.2	662.9	662.9	662.9	657.2	657.2	651.3	651.3
62.5°	490.0	495.7	501.6	495.7	495.7	495.7	490.0	490.0	484.3	478.3	478.3
65°	328.6	322.9	334.3	322.9	328.6	328.6	322.9	328.6	311.3	317.0	311.3
67.5°	236.3	230.6	224.9	230.6	224.9	219.0	219.0	224.9	230.6	213.3	213.3
70°	155.7	161.3	155.7	161.3	167.3	167.3	161.3	155.7	161.3	150.0	155.7
72.5°	98.0	98.0	98.0	98.0	98.0	103.7	103.7	103.7	92.3	92.3	86.4
75°	46.0	63.4	52.0	46.0	63.4	63.4	57.7	57.7	52.0	52.0	52.0
77.5°	46.0	34.6	34.6	34.6	34.6	34.6	34.6	34.6	28.7	34.6	28.7
80°	23.0	23.0	23.0	17.3	23.0	23.0	28.7	23.0	23.0	17.3	28.7
82.5°	11.6	11.6	11.6	0.0	5.7	11.6	11.6	5.7	11.6	11.6	5.7
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: P248793

CATALOG NUMBER: LD8B200D010 ER8B200840 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	11805.7	11805.7	11805.7	11805.7	11805.7	11805.7	11805.7	11805.7	11805.7	11805.7	11805.7
2.5°	11938.3	11932.6	11938.3	11944.0	11938.3	11932.6	11938.3	11944.0	11921.0	11915.3	11926.7
5°	12192.0	12192.0	12203.4	12209.3	12203.4	12192.0	12192.0	12169.0	12151.6	12134.3	12128.6
7.5°	12411.0	12422.6	12434.0	12439.7	12434.0	12422.6	12411.0	12376.3	12341.7	12313.0	12290.0
10°	12543.6	12560.9	12583.9	12595.3	12583.9	12560.9	12543.6	12503.3	12457.0	12411.0	12376.3
12.5°	12601.3	12618.6	12647.3	12641.6	12647.3	12618.6	12601.3	12543.6	12491.6	12428.3	12376.3
15°	12560.9	12583.9	12612.6	12624.3	12612.6	12583.9	12560.9	12503.3	12457.0	12388.0	12336.0
17.5°	12434.0	12468.6	12485.9	12503.3	12485.9	12468.6	12434.0	12388.0	12324.6	12266.9	12215.0
20°	12261.0	12284.3	12307.3	12313.0	12307.3	12284.3	12261.0	12209.3	12111.3	12099.7	12059.3
22.5°	12013.3	12030.6	12082.3	12065.0	12082.3	12030.6	12013.3	11967.0	11932.6	11869.0	11828.7
25°	11655.7	11673.1	11679.0	11684.7	11679.0	11673.1	11655.7	11615.4	11581.0	11534.7	11511.7
27.5°	11039.1	11039.1	11050.5	11056.4	11050.5	11039.1	11039.1	11010.1	10987.1	10964.1	10941.1
30°	10105.2	10105.2	10105.2	10134.1	10105.2	10105.2	10105.2	10099.5	10099.5	10105.2	10105.2
32.5°	9027.2	9015.6	9004.2	9015.6	9004.2	9015.6	9027.2	9032.9	9027.2	9044.6	9073.3
35°	7805.1	7799.4	7816.7	7793.7	7816.7	7799.4	7805.1	7805.1	7828.3	7851.3	7857.0
37.5°	6634.8	6623.4	6646.5	6623.4	6646.5	6623.4	6634.8	6629.1	6623.4	6634.8	6617.7
40°	5522.5	5533.9	5533.9	5580.2	5533.9	5533.9	5522.5	5510.9	5470.5	5447.5	5424.5
42.5°	4456.0	4490.6	4479.0	4513.6	4479.0	4490.6	4456.0	4432.9	4386.7	4346.3	4311.9
45°	3447.1	3470.3	3470.3	3481.7	3470.3	3470.3	3447.1	3424.1	3383.7	3349.1	3326.1
47.5°	2645.8	2645.8	2645.8	2651.7	2645.8	2645.8	2645.8	2605.5	2594.1	2571.1	2542.1
50°	2011.8	2017.5	2023.5	2029.1	2023.5	2017.5	2011.8	2000.2	1994.5	1982.9	1977.2
52.5°	1544.9	1550.6	1539.2	1550.6	1539.2	1550.6	1544.9	1550.6	1533.2	1533.2	1527.6
55°	1170.2	1164.5	1170.2	1175.9	1170.2	1164.5	1170.2	1170.2	1164.5	1164.5	1164.5
57.5°	858.9	847.3	847.3	847.3	847.3	847.3	858.9	853.2	870.5	858.9	864.6
60°	639.9	645.6	645.6	651.3	645.6	645.6	639.9	651.3	651.3	657.2	657.2
62.5°	472.6	490.0	478.3	490.0	478.3	490.0	472.6	478.3	478.3	484.3	490.0
65°	305.6	305.6	305.6	311.3	305.6	305.6	305.6	311.3	317.0	311.3	328.6
67.5°	207.6	213.3	224.9	219.0	224.9	213.3	207.6	213.3	213.3	230.6	224.9
70°	167.3	150.0	150.0	167.3	150.0	150.0	167.3	155.7	150.0	161.3	155.7
72.5°	98.0	86.4	98.0	98.0	98.0	86.4	98.0	86.4	92.3	92.3	103.7
75°	52.0	46.0	40.3	57.7	40.3	46.0	52.0	52.0	52.0	52.0	57.7
77.5°	34.6	28.7	40.3	40.3	40.3	28.7	34.6	28.7	34.6	28.7	34.6
80°	17.3	23.0	17.3	28.7	17.3	23.0	17.3	28.7	17.3	23.0	23.0
82.5°	5.7	11.6	11.6	11.6	11.6	11.6	5.7	5.7	11.6	11.6	5.7
85°	0.0	11.6	5.7	5.7	5.7	11.6	0.0	0.0	0.0	0.0	0.0
87.5°	5.7	0.0	0.0	5.7	0.0	0.0	5.7	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: P248793

CATALOG NUMBER: LD8B200D010 ER8B200840 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	11805.7	11805.7	11805.7	11805.7	11805.7	11805.7	11805.7	11805.7	11805.7	11805.7	11805.7
2.5°	11926.7	11909.4	11915.3	11880.7	11880.7	11869.0	11875.0	11846.0	11834.6	11823.0	11840.3
5°	12099.7	12071.0	12047.7	11996.0	11967.0	11932.6	11915.3	11869.0	11828.7	11794.1	11788.4
7.5°	12238.0	12174.6	12134.3	12065.0	12013.3	11973.0	11915.3	11851.7	11800.0	11753.7	11719.3
10°	12295.7	12232.3	12169.0	12082.3	12024.7	11949.7	11892.1	11811.4	11742.3	11679.0	11638.4
12.5°	12301.3	12220.7	12163.0	12065.0	11990.0	11909.4	11846.0	11753.7	11673.1	11609.7	11546.4
15°	12249.6	12174.6	12105.4	12001.7	11926.7	11851.7	11777.0	11679.0	11604.0	11529.0	11483.0
17.5°	12134.3	12065.0	11984.4	11886.4	11817.3	11748.0	11667.4	11586.7	11500.1	11419.4	11361.8
20°	11984.4	11909.4	11840.3	11742.3	11684.7	11609.7	11534.7	11448.4	11379.1	11298.4	11235.1
22.5°	11759.7	11690.4	11627.0	11569.4	11477.1	11419.4	11367.7	11269.7	11200.4	11125.4	11056.4
25°	11436.7	11367.7	11315.7	11246.4	11206.1	11142.8	11090.8	11004.4	10941.1	10871.8	10814.1
27.5°	10906.4	10866.1	10837.1	10796.8	10762.4	10733.5	10704.7	10635.5	10589.4	10526.1	10468.4
30°	10110.9	10105.2	10087.8	10070.5	10093.5	10093.5	10093.5	10082.1	10041.8	9995.5	9955.2
32.5°	9090.6	9102.2	9125.2	9142.6	9188.6	9240.5	9286.6	9309.6	9309.6	9280.9	9263.6
35°	7874.3	7891.7	7926.3	7972.3	8030.0	8093.3	8197.0	8220.3	8237.4	8237.4	8214.3
37.5°	6611.8	6606.1	6640.8	6681.1	6715.7	6761.8	6836.7	6854.1	6882.8	6871.4	6848.1
40°	5383.9	5355.2	5343.6	5355.2	5395.6	5378.2	5395.6	5383.9	5383.9	5343.6	5343.6
42.5°	4248.3	4213.9	4190.7	4173.6	4173.6	4133.0	4104.3	4075.6	4058.3	4029.3	4023.7
45°	3274.3	3233.8	3205.1	3193.4	3176.4	3124.4	3089.8	3055.1	3014.8	3003.4	3009.1
47.5°	2542.1	2501.8	2490.2	2461.5	2432.5	2403.8	2380.8	2340.4	2334.5	2311.5	2334.5
50°	1959.9	1948.5	1931.2	1919.5	1902.2	1879.2	1856.2	1833.2	1821.5	1821.5	1827.2
52.5°	1521.9	1527.6	1510.2	1492.9	1481.5	1481.5	1452.6	1446.9	1446.9	1423.9	1446.9
55°	1164.5	1158.6	1164.5	1152.9	1152.9	1135.6	1135.6	1118.3	1118.3	1100.9	1112.6
57.5°	853.2	864.6	853.2	858.9	870.5	853.2	847.3	830.0	841.6	830.0	835.9
60°	662.9	662.9	662.9	657.2	657.2	651.3	651.3	645.6	645.6	634.0	645.6
62.5°	490.0	495.7	495.7	495.7	501.6	495.7	490.0	495.7	490.0	490.0	495.7
65°	322.9	328.6	328.6	322.9	334.3	322.9	328.6	334.3	340.0	334.3	340.0
67.5°	219.0	219.0	224.9	230.6	224.9	230.6	236.3	230.6	236.3	247.9	236.3
70°	161.3	167.3	167.3	161.3	155.7	161.3	155.7	173.0	173.0	173.0	184.4
72.5°	103.7	103.7	98.0	98.0	98.0	98.0	98.0	115.3	103.7	98.0	109.6
75°	57.7	63.4	63.4	46.0	52.0	63.4	46.0	52.0	69.3	57.7	69.3
77.5°	34.6	34.6	34.6	34.6	34.6	34.6	46.0	40.3	40.3	40.3	46.0
80°	28.7	23.0	23.0	17.3	23.0	23.0	23.0	34.6	28.7	28.7	34.6
82.5°	11.6	11.6	5.7	0.0	11.6	11.6	11.6	11.6	11.6	11.6	23.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	5.7	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.6	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: P248793

CATALOG NUMBER: LD8B200D010 ER8B200840 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	11805.7	11805.7	11805.7	11805.7	11805.7	11805.7	11805.7	11805.7	11805.7	11805.7	11805.7
2.5°	11794.1	11794.1	11788.4	11777.0	11753.7	11753.7	11748.0	11730.7	11719.3	11713.4	11713.4
5°	11736.4	11713.4	11690.4	11627.0	11627.0	11615.4	11581.0	11557.7	11546.4	11517.4	11506.0
7.5°	11684.7	11615.4	11575.1	11534.7	11483.0	11459.7	11419.4	11402.1	11361.8	11333.0	11315.7
10°	11557.7	11511.7	11459.7	11396.4	11356.1	11310.0	11263.8	11229.4	11177.4	11148.4	11125.4
12.5°	11471.4	11402.1	11356.1	11286.8	11217.7	11177.4	11114.0	11073.7	11021.7	10964.1	10929.4
15°	11390.7	11315.7	11252.4	11177.4	11102.4	11056.4	10981.4	10935.4	10860.4	10802.7	10762.4
17.5°	11269.7	11206.1	11137.1	11044.8	10975.7	10918.1	10837.1	10779.7	10710.4	10635.5	10595.1
20°	11142.8	11067.8	10998.7	10906.4	10837.1	10768.1	10687.4	10624.1	10543.2	10474.1	10428.1
22.5°	10975.7	10889.1	10831.5	10739.2	10658.5	10583.7	10508.8	10433.8	10358.8	10301.1	10249.2
25°	10733.5	10641.2	10577.8	10502.8	10428.1	10370.4	10278.1	10232.1	10157.1	10105.2	10053.2
27.5°	10387.5	10318.5	10260.8	10185.8	10122.5	10076.5	10007.2	9961.1	9897.5	9851.5	9811.2
30°	9880.5	9822.8	9770.8	9695.9	9649.8	9609.5	9545.9	9505.6	9459.5	9407.6	9396.2
32.5°	9200.2	9153.9	9102.2	9050.3	9015.6	8992.6	8940.6	8917.6	8871.6	8842.6	8813.9
35°	8174.0	8133.7	8105.0	8081.9	8070.3	8076.0	8064.6	8087.6	8099.0	8093.3	8099.0
37.5°	6831.1	6807.8	6819.4	6836.7	6894.4	6969.4	7038.4	7142.1	7211.4	7280.7	7344.0
40°	5332.2	5349.5	5395.6	5499.2	5649.2	5816.5	5972.1	6168.1	6364.1	6502.4	6629.1
42.5°	4023.7	4075.6	4190.7	4340.6	4565.6	4813.3	5055.5	5343.6	5580.2	5810.5	5972.1
45°	3026.4	3095.4	3245.4	3453.0	3700.7	3989.0	4294.6	4617.3	4899.9	5136.2	5314.9
47.5°	2357.8	2421.1	2571.1	2790.1	3095.4	3395.4	3712.4	4046.7	4340.6	4571.3	4726.9
50°	1861.9	1942.5	2075.2	2305.8	2611.4	2928.4	3257.0	3585.4	3862.3	4058.3	4196.6
52.5°	1464.2	1539.2	1665.9	1908.1	2219.4	2536.4	2841.8	3164.7	3406.7	3597.0	3689.3
55°	1135.6	1204.9	1337.3	1539.2	1833.2	2144.5	2449.8	2726.7	2951.4	3089.8	3176.4
57.5°	864.6	916.6	1008.9	1210.6	1475.8	1763.9	2023.5	2300.1	2473.1	2571.1	2628.5
60°	657.2	697.6	795.6	951.2	1193.2	1441.2	1660.2	1867.8	2006.1	2086.8	2144.5
62.5°	495.7	541.9	611.0	743.6	928.0	1129.9	1314.2	1469.9	1585.2	1637.2	1677.5
65°	340.0	374.7	426.6	530.3	686.0	830.0	974.2	1089.6	1164.5	1222.2	1245.2
67.5°	253.6	276.7	305.6	386.3	495.7	611.0	709.0	789.6	870.5	893.6	933.9
70°	190.3	207.6	236.3	294.0	357.3	438.0	518.9	564.9	622.6	662.9	674.6
72.5°	121.0	126.7	155.7	190.3	242.0	294.0	345.9	386.3	420.9	443.9	455.3
75°	69.3	103.7	103.7	138.3	173.0	196.0	230.6	259.3	276.7	294.0	294.0
77.5°	46.0	63.4	69.3	86.4	103.7	132.6	161.3	178.7	196.0	201.7	201.7
80°	40.3	46.0	46.0	63.4	75.0	98.0	115.3	121.0	132.6	138.3	150.0
82.5°	17.3	23.0	28.7	46.0	52.0	52.0	69.3	75.0	86.4	92.3	92.3
85°	5.7	11.6	11.6	17.3	28.7	34.6	40.3	46.0	52.0	52.0	57.7
87.5°	5.7	5.7	0.0	5.7	11.6	11.6	23.0	23.0	23.0	34.6	34.6
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: P248793

CATALOG NUMBER: LD8B200D010 ER8B200840 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	11805.7	11805.7	11805.7	11805.7	11805.7	11805.7	11805.7
2.5°	11702.0	11707.7	11684.7	11679.0	11667.4	11673.1	11684.7
5°	11488.7	11494.4	11471.4	11448.4	11448.4	11442.4	11448.4
7.5°	11286.8	11292.7	11258.1	11246.4	11223.4	11229.4	11229.4
10°	11085.1	11085.1	11033.4	11027.4	11010.1	11004.4	11004.4
12.5°	10889.1	10871.8	10831.5	10808.4	10820.1	10785.4	10785.4
15°	10716.1	10687.4	10635.5	10618.1	10589.4	10577.8	10577.8
17.5°	10537.5	10514.5	10468.4	10433.8	10399.1	10393.4	10399.1
20°	10364.5	10341.5	10283.8	10260.8	10232.1	10232.1	10220.5
22.5°	10191.5	10168.5	10116.8	10099.5	10059.1	10059.1	10064.8
25°	10012.9	9995.5	9937.9	9926.5	9920.8	9897.5	9909.2
27.5°	9770.8	9759.2	9713.2	9695.9	9672.9	9667.2	9678.5
30°	9326.9	9309.6	9275.2	9257.9	9217.5	9223.2	9234.6
32.5°	8773.6	8750.6	8704.3	8687.0	8652.6	8641.0	8646.7
35°	8081.9	8064.6	8024.3	8024.3	7989.6	7978.0	7989.6
37.5°	7378.7	7395.8	7378.7	7395.8	7378.7	7372.7	7378.7
40°	6715.7	6779.1	6790.5	6854.1	6831.1	6865.5	6859.8
42.5°	6081.5	6185.2	6225.8	6277.5	6266.1	6289.1	6306.4
45°	5441.6	5528.2	5568.5	5603.2	5608.9	5620.5	5626.2
47.5°	4836.3	4905.6	4911.3	4951.6	4945.9	4945.9	4963.2
50°	4271.6	4317.6	4329.0	4358.0	4335.0	4323.3	4329.0
52.5°	3747.0	3793.0	3781.4	3793.0	3764.3	3752.7	3758.4
55°	3210.8	3233.8	3233.8	3233.8	3199.4	3199.4	3199.4
57.5°	2663.1	2669.1	2657.4	2663.1	2657.4	2622.8	2617.1
60°	2161.8	2161.8	2155.9	2161.8	2144.5	2127.1	2127.1
62.5°	1688.9	1700.5	1723.5	1700.5	1688.9	1700.5	1683.2
65°	1262.5	1285.5	1279.6	1291.2	1285.5	1285.5	1273.9
67.5°	951.2	956.9	962.6	968.5	968.5	968.5	968.5
70°	697.6	714.9	709.0	709.0	709.0	709.0	743.6
72.5°	467.0	490.0	484.3	495.7	495.7	507.3	495.7
75°	317.0	340.0	328.6	345.9	340.0	328.6	357.3
77.5°	213.3	224.9	230.6	236.3	230.6	224.9	230.6
80°	150.0	161.3	155.7	161.3	161.3	161.3	167.3
82.5°	92.3	109.6	103.7	109.6	103.7	109.6	109.6
85°	63.4	69.3	57.7	69.3	63.4	63.4	75.0
87.5°	40.3	34.6	34.6	40.3	34.6	40.3	34.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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