

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: P248503

Luminaire Tested: **LSR8B150D010 EC8B150935 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248503
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B150D010 EC8B150935 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14151.0 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

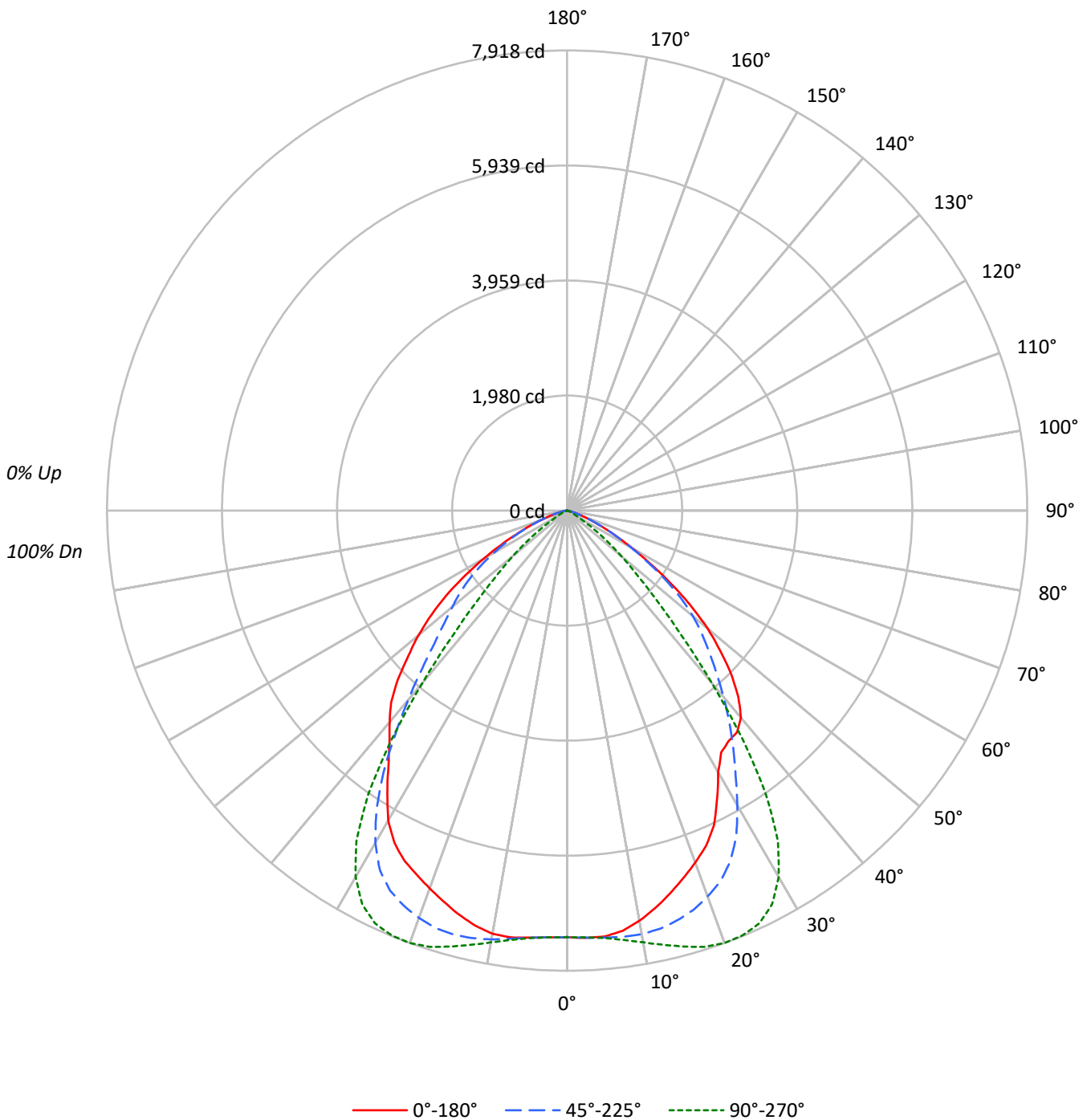
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90					90			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62					62			
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56					56			
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50					50			
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45					45			
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41					41			
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38					38			
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	226369	226369	226369
5°	227720	228562	228321
10°	224373	236208	231574
15°	217815	247916	229755
20°	211491	259825	226964
25°	203372	266477	225910
30°	185080	259174	219213
35°	182326	224570	201686
40°	187282	155755	191198
45°	174345	94135	179783
50°	151225	58133	160196
55°	116050	30375	135952
60°	79064	12254	102611
65°	49186	6253	70791
70°	26696	3868	43213
75°	13928	1847	25532
80°	6233	2078	13833
85°	4140	1380	12419



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	706.0	5.0
10°-20°	2091.4	14.8
20°-30°	3190.6	22.5
30°-40°	3329.4	23.5
40°-50°	2500.8	17.7
50°-60°	1538.7	10.9
60°-70°	626.2	4.4
70°-80°	147.5	1.0
80°-90°	20.3	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°	5988.0	42.3
0°-40°	9317.4	65.8
0°-60°	13356.9	94.4
0°-90°	14151.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14151.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7341	7341	7341	7341	7341	
5°	7357	7376	7384	7376	7376	696
15°	6823	7302	7766	7552	7197	1922
25°	5977	6648	7832	7212	6640	2717
35°	4843	4980	5966	5514	5358	3058
45°	3998	3460	2159	3222	4123	3050
55°	2159	2050	565	2050	2529	1940
65°	674	682	86	916	970	703
75°	117	117	16	206	214	141
85°	12	12	4	27	35	16
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°	7341.0	7341.0	7341.0	7341.0	7341.0	7341.0	7341.0	7341.0	7341.0	7341.0	7341.0
2.5°	7360.6	7348.9	7360.6	7360.6	7364.5	7356.7	7360.6	7364.5	7356.7	7356.7	7356.7
5°	7356.7	7348.9	7356.7	7352.8	7360.6	7360.6	7368.4	7368.4	7376.1	7376.1	7387.9
7.5°	7294.3	7278.8	7294.3	7306.0	7313.8	7329.4	7348.9	7364.5	7380.0	7395.7	7415.1
10°	7165.7	7165.7	7177.4	7200.8	7224.2	7251.4	7286.5	7325.5	7364.5	7399.5	7434.6
12.5°	7006.0	6994.3	7017.6	7048.8	7083.9	7126.8	7181.3	7239.8	7302.1	7372.2	7426.8
15°	6822.9	6811.1	6838.4	6869.6	6912.5	6974.8	7041.1	7119.0	7208.6	7302.1	7391.8
17.5°	6635.8	6631.9	6659.2	6702.1	6737.1	6803.3	6889.1	6982.6	7083.9	7208.6	7325.5
20°	6444.9	6441.0	6468.3	6503.4	6550.1	6612.4	6698.1	6807.2	6928.0	7068.4	7204.7
22.5°	6246.1	6250.0	6273.4	6312.4	6351.4	6417.6	6507.2	6616.3	6748.8	6900.8	7052.7
25°	5977.3	5957.8	5989.0	6028.0	6094.2	6148.7	6234.5	6351.4	6487.7	6647.5	6826.8
27.5°	5587.6	5583.7	5611.1	5646.1	5704.5	5770.8	5864.3	5985.1	6129.2	6304.6	6479.9
30°	5197.9	5205.8	5217.5	5252.6	5291.5	5357.7	5451.3	5552.6	5689.0	5856.5	6043.5
32.5°	4933.0	4933.0	4948.6	4972.0	4999.3	5034.3	5100.6	5174.6	5279.8	5396.7	5533.1
35°	4843.4	4827.8	4843.4	4847.3	4851.2	4859.0	4870.6	4894.1	4929.1	4979.8	5030.4
37.5°	4804.5	4792.7	4792.7	4777.2	4757.7	4734.3	4703.1	4668.0	4629.1	4578.4	4539.5
40°	4652.5	4644.7	4636.9	4621.3	4578.4	4531.7	4481.0	4399.2	4309.5	4184.8	4060.2
42.5°	4360.3	4352.5	4348.5	4317.4	4278.4	4223.8	4165.4	4079.7	3966.7	3806.9	3627.7
45°	3997.9	3982.2	3970.6	3943.3	3916.0	3869.3	3814.7	3736.7	3623.8	3460.1	3245.8
47.5°	3577.0	3569.2	3565.3	3553.7	3526.4	3499.0	3464.1	3401.7	3300.4	3144.5	2922.4
50°	3152.3	3136.7	3144.5	3140.7	3128.9	3109.5	3086.0	3043.2	2965.2	2825.0	2622.4
52.5°	2665.2	2665.2	2661.4	2673.0	2676.9	2673.0	2676.9	2630.2	2563.9	2458.7	2287.3
55°	2158.6	2158.6	2170.4	2186.0	2201.5	2205.4	2201.5	2182.1	2135.3	2049.6	1897.6
57.5°	1683.3	1675.5	1698.9	1722.3	1737.9	1753.4	1741.7	1726.2	1698.9	1628.7	1511.8
60°	1282.0	1282.0	1297.5	1313.1	1328.7	1344.3	1340.4	1336.5	1313.1	1266.3	1172.9
62.5°	942.9	946.8	946.8	958.6	974.1	989.7	1001.4	989.7	978.0	946.8	884.5
65°	674.1	670.2	674.1	685.8	697.5	713.1	720.9	717.0	705.2	681.9	635.2
67.5°	452.0	448.1	463.6	467.6	475.4	491.0	487.1	491.0	487.1	467.6	428.7
70°	296.1	288.3	296.1	292.2	303.9	307.9	315.6	319.5	315.6	303.9	292.2
72.5°	183.2	179.2	183.2	187.1	191.0	194.8	202.6	202.6	198.7	191.0	175.3
75°	116.9	105.2	109.1	101.3	109.1	109.1	116.9	120.8	116.9	116.9	109.1
77.5°	70.2	70.2	70.2	70.2	70.2	70.2	70.2	74.1	77.9	70.2	66.3
80°	35.1	35.1	39.0	39.0	39.0	42.9	39.0	39.0	39.0	42.9	31.2
82.5°	27.3	23.4	23.4	23.4	27.3	23.4	23.4	23.4	23.4	23.4	23.4
85°	11.7	15.5	11.7	7.8	11.7	11.7	15.5	11.7	11.7	11.7	15.5
87.5°	3.9	3.9	0.0	0.0	0.0	3.9	0.0	3.9	3.9	7.8	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	7341.0	7341.0	7341.0	7341.0	7341.0	7341.0	7341.0	7341.0	7341.0	7341.0	7341.0
2.5°	7360.6	7352.8	7352.8	7348.9	7356.7	7348.9	7352.8	7348.9	7348.9	7356.7	7348.9
5°	7387.9	7391.8	7383.9	7380.0	7391.8	7391.8	7391.8	7383.9	7383.9	7387.9	7383.9
7.5°	7426.8	7434.6	7438.5	7442.4	7450.2	7454.1	7454.1	7450.2	7446.3	7458.0	7442.4
10°	7469.7	7481.4	7504.7	7516.5	7535.9	7535.9	7543.7	7543.7	7535.9	7543.7	7539.8
12.5°	7454.1	7524.2	7563.2	7590.5	7617.7	7641.1	7648.9	7652.8	7648.9	7664.5	7648.9
15°	7481.4	7539.8	7602.2	7648.9	7699.5	7726.8	7734.6	7765.8	7773.6	7777.5	7754.2
17.5°	7438.5	7543.7	7609.9	7680.1	7754.2	7804.8	7851.5	7871.0	7875.0	7882.7	7851.5
20°	7341.0	7458.0	7559.3	7660.6	7746.3	7824.2	7863.2	7917.8	7902.2	7933.4	7890.5
22.5°	7208.6	7341.0	7469.7	7602.2	7691.8	7785.3	7867.1	7906.0	7925.6	7925.6	7878.8
25°	6998.2	7154.1	7294.3	7430.7	7567.1	7680.1	7773.6	7832.0	7843.8	7839.9	7785.3
27.5°	6670.9	6838.4	7002.1	7158.0	7325.5	7458.0	7567.1	7637.2	7656.7	7656.7	7598.3
30°	6218.9	6398.1	6557.9	6744.9	6916.4	7064.5	7216.4	7278.8	7313.8	7313.8	7247.6
32.5°	5681.1	5833.1	5981.2	6164.3	6351.4	6518.9	6663.1	6748.8	6791.7	6787.8	6729.3
35°	5096.7	5170.7	5283.7	5420.1	5587.6	5743.5	5883.7	5965.6	6039.6	6035.7	5981.2
37.5°	4512.2	4492.7	4504.4	4555.1	4660.2	4769.4	4878.5	4956.4	5018.7	5046.1	5034.3
40°	3939.4	3838.1	3740.6	3705.7	3713.4	3752.4	3810.8	3869.3	3939.4	3974.5	3990.1
42.5°	3425.1	3253.6	3082.1	2953.6	2879.5	2856.2	2883.4	2902.9	2945.8	2996.4	3047.1
45°	3012.0	2782.2	2556.1	2357.4	2232.7	2158.6	2143.1	2158.6	2182.1	2232.7	2299.0
47.5°	2673.0	2404.1	2150.9	1928.8	1745.6	1648.3	1621.0	1613.2	1636.5	1683.3	1772.9
50°	2373.0	2104.1	1823.6	1566.4	1375.5	1266.3	1227.4	1211.8	1239.1	1274.1	1356.0
52.5°	2045.7	1780.7	1492.4	1243.0	1044.3	931.3	888.4	865.0	880.6	927.4	1009.2
55°	1691.1	1445.6	1184.5	927.4	736.4	631.3	580.5	565.0	580.5	631.3	713.1
57.5°	1336.5	1130.0	911.8	670.2	498.7	393.6	342.9	327.3	370.2	389.7	475.4
60°	1044.3	876.8	689.7	491.0	342.9	261.0	210.4	198.7	218.2	253.2	323.4
62.5°	783.2	678.0	529.9	350.7	253.2	167.5	140.2	128.6	140.2	167.5	222.1
65°	568.9	487.1	370.2	257.1	171.4	124.7	93.5	85.7	97.4	116.9	163.7
67.5°	389.7	327.3	257.1	179.2	116.9	77.9	66.3	66.3	70.2	85.7	120.8
70°	253.2	214.3	163.7	116.9	77.9	58.4	50.6	42.9	50.6	62.4	81.8
72.5°	159.8	136.3	105.2	81.8	58.4	42.9	35.1	31.2	39.0	46.7	62.4
75°	97.4	74.1	54.5	42.9	31.2	31.2	31.2	15.5	19.5	31.2	39.0
77.5°	58.4	50.6	42.9	35.1	27.3	15.5	15.5	15.5	19.5	23.4	35.1
80°	31.2	27.3	19.5	19.5	15.5	11.7	15.5	11.7	7.8	19.5	23.4
82.5°	19.5	15.5	15.5	15.5	19.5	7.8	11.7	7.8	11.7	15.5	11.7
85°	11.7	11.7	11.7	7.8	19.5	7.8	7.8	3.9	3.9	7.8	7.8
87.5°	0.0	3.9	3.9	0.0	3.9	0.0	3.9	3.9	3.9	3.9	3.9
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°	7341.0	7341.0	7341.0	7341.0	7341.0	7341.0	7341.0	7341.0	7341.0	7341.0	7341.0
2.5°	7352.8	7348.9	7352.8	7348.9	7348.9	7348.9	7352.8	7352.8	7348.9	7348.9	7356.7
5°	7383.9	7383.9	7383.9	7380.0	7376.1	7376.1	7383.9	7383.9	7372.2	7383.9	7383.9
7.5°	7450.2	7438.5	7450.2	7434.6	7426.8	7430.7	7434.6	7426.8	7419.0	7422.9	7422.9
10°	7535.9	7524.2	7524.2	7512.6	7500.8	7493.0	7485.3	7465.7	7446.3	7442.4	7426.8
12.5°	7637.2	7617.7	7606.1	7582.6	7563.2	7535.9	7512.6	7481.4	7442.4	7415.1	7387.9
15°	7738.5	7707.3	7680.1	7641.1	7598.3	7551.5	7500.8	7450.2	7387.9	7333.3	7286.5
17.5°	7820.3	7777.5	7726.8	7664.5	7602.2	7532.0	7458.0	7383.9	7294.3	7224.2	7169.6
20°	7847.6	7785.3	7719.1	7637.2	7555.4	7458.0	7364.5	7267.1	7165.7	7091.7	7029.4
22.5°	7812.6	7738.5	7656.7	7571.0	7461.8	7356.7	7247.6	7134.5	7044.9	6943.7	6885.2
25°	7715.2	7625.5	7535.9	7434.6	7329.4	7212.5	7095.6	6978.7	6869.6	6815.0	6741.1
27.5°	7516.5	7419.0	7321.6	7216.4	7095.6	6978.7	6857.9	6744.9	6651.4	6577.4	6534.5
30°	7165.7	7052.7	6939.7	6826.8	6721.5	6600.7	6487.7	6394.2	6300.7	6242.2	6199.4
32.5°	6628.0	6526.7	6413.7	6304.6	6207.2	6105.9	6012.4	5930.5	5864.3	5825.3	5794.1
35°	5903.3	5801.9	5716.2	5638.3	5556.4	5513.6	5455.2	5408.4	5381.1	5365.6	5361.6
37.5°	4991.4	4933.0	4905.7	4890.2	4874.5	4862.9	4870.6	4890.2	4905.7	4933.0	4964.2
40°	4017.3	4068.0	4083.6	4138.1	4188.8	4255.0	4329.1	4414.8	4484.9	4574.5	4636.9
42.5°	3128.9	3222.5	3331.5	3448.4	3573.1	3693.9	3842.0	3978.3	4103.0	4216.0	4313.5
45°	2404.1	2548.3	2712.0	2879.5	3047.1	3222.5	3401.7	3569.2	3717.3	3838.1	3939.4
47.5°	1874.2	2034.0	2244.4	2451.0	2653.6	2860.1	3058.8	3234.1	3358.8	3475.7	3565.3
50°	1484.6	1667.7	1897.6	2135.3	2357.4	2575.6	2786.0	2949.7	3074.4	3167.9	3234.1
52.5°	1149.4	1367.7	1601.5	1850.9	2088.6	2326.2	2521.0	2673.0	2774.4	2856.2	2906.8
55°	857.2	1071.5	1321.0	1578.1	1819.7	2049.6	2232.7	2365.2	2454.9	2501.6	2528.8
57.5°	619.5	814.4	1063.7	1321.0	1539.1	1757.3	1905.4	2026.2	2076.8	2104.1	2115.8
60°	452.0	631.3	853.3	1075.5	1282.0	1457.3	1585.9	1667.7	1706.7	1722.3	1718.3
62.5°	331.2	487.1	678.0	865.0	1032.6	1176.7	1278.1	1332.6	1352.1	1359.9	1348.2
65°	253.2	374.0	537.7	681.9	810.5	915.7	989.7	1024.8	1036.5	1032.6	1024.8
67.5°	187.1	280.6	401.4	510.5	604.0	685.8	724.8	756.0	763.7	752.1	740.3
70°	132.5	206.5	292.2	366.3	436.4	483.2	526.0	529.9	529.9	526.0	518.3
72.5°	93.5	144.2	198.7	249.4	292.2	327.3	342.9	354.6	350.7	346.8	339.0
75°	62.4	89.6	144.2	155.9	194.8	206.5	222.1	222.1	226.0	214.3	214.3
77.5°	39.0	62.4	85.7	101.3	116.9	132.5	140.2	140.2	144.2	140.2	140.2
80°	23.4	39.0	46.7	70.2	70.2	81.8	85.7	89.6	81.8	93.5	81.8
82.5°	15.5	23.4	35.1	35.1	42.9	50.6	50.6	54.5	54.5	50.6	50.6
85°	11.7	15.5	19.5	23.4	23.4	27.3	23.4	23.4	27.3	31.2	27.3
87.5°	3.9	7.8	3.9	7.8	7.8	15.5	11.7	11.7	11.7	15.5	15.5
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: P248503

CATALOG NUMBER: LSR8B150D010 EC8B150935 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	7341.0	7341.0	7341.0	7341.0
2.5°	7348.9	7352.8	7348.9	7348.9
5°	7383.9	7380.0	7383.9	7376.1
7.5°	7411.2	7411.2	7407.3	7407.3
10°	7411.2	7395.7	7395.7	7395.7
12.5°	7352.8	7333.3	7321.6	7313.8
15°	7251.4	7216.4	7200.8	7196.9
17.5°	7119.0	7087.8	7068.4	7056.6
20°	6967.0	6935.8	6912.5	6916.4
22.5°	6834.5	6799.5	6783.9	6776.0
25°	6702.1	6659.2	6647.5	6639.7
27.5°	6487.7	6464.4	6452.6	6441.0
30°	6160.4	6148.7	6129.2	6156.5
32.5°	5782.5	5762.9	5747.4	5759.1
35°	5365.6	5353.8	5365.6	5357.7
37.5°	4983.7	4995.3	5011.0	5018.7
40°	4683.7	4726.5	4742.1	4749.8
42.5°	4383.6	4434.3	4465.4	4484.9
45°	4013.4	4064.0	4099.1	4122.6
47.5°	3631.6	3674.5	3709.5	3705.7
50°	3284.8	3308.2	3323.7	3339.3
52.5°	2934.1	2934.1	2938.0	2938.0
55°	2536.7	2528.8	2524.9	2528.8
57.5°	2100.2	2092.5	2088.6	2076.8
60°	1702.8	1679.4	1663.8	1663.8
62.5°	1332.6	1305.3	1293.7	1289.8
65°	1001.4	997.5	974.1	970.2
67.5°	724.8	709.2	693.6	697.5
70°	510.5	487.1	487.1	479.3
72.5°	331.2	319.5	315.6	315.6
75°	206.5	206.5	198.7	214.3
77.5°	136.3	136.3	132.5	136.3
80°	81.8	81.8	81.8	77.9
82.5°	50.6	54.5	50.6	50.6
85°	27.3	31.2	23.4	35.1
87.5°	15.5	19.5	15.5	19.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)