

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: P250278

Luminaire Tested: **LSR8B150D010 EC8B150927 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250278
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: LSR8B150D010 EC8B150927 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12976.9 lumens
Efficiency: N/A
Efficacy: 81.9 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

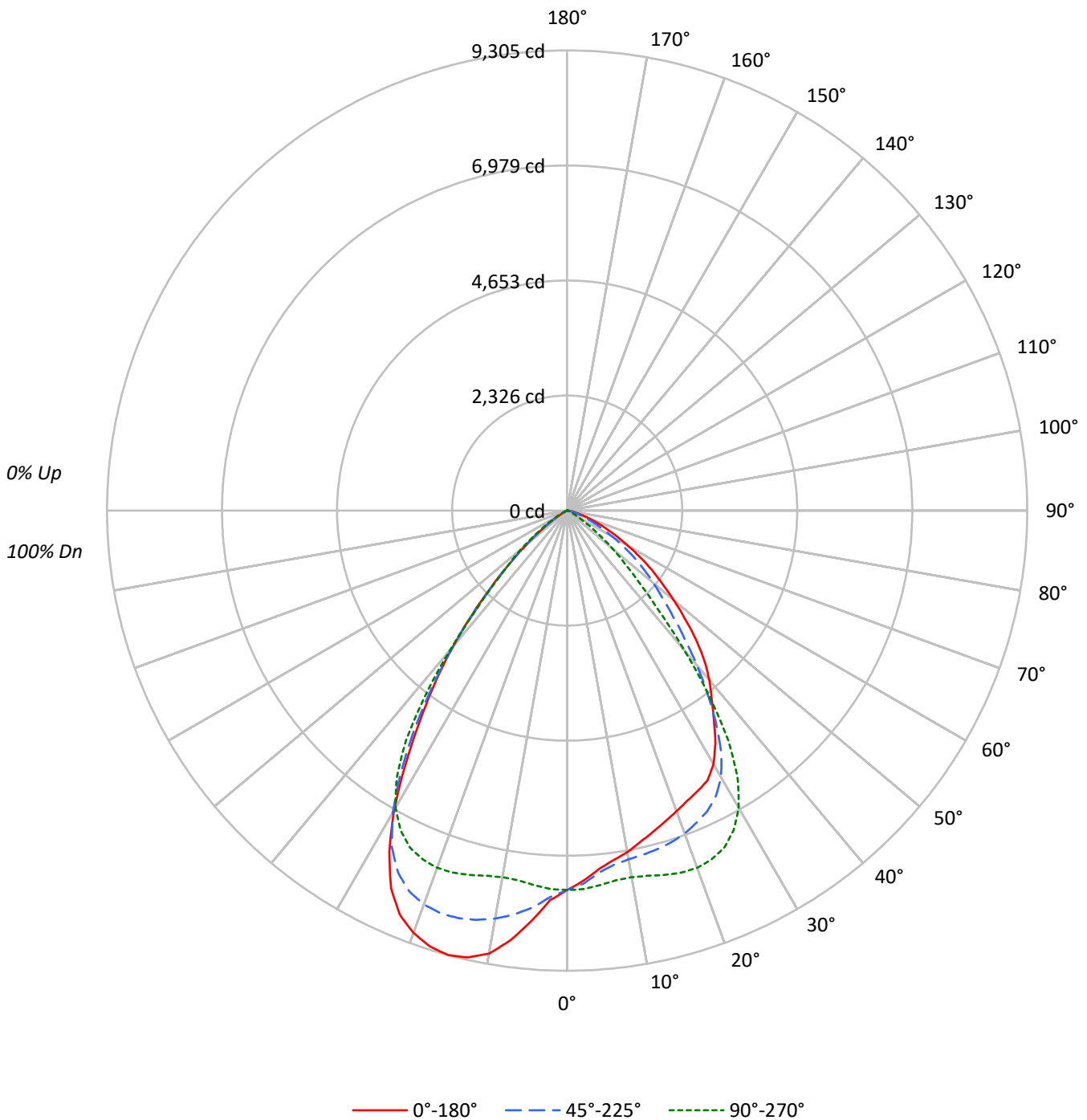
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						
1	112	109	106	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91						
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82						
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73						
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66						
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60						
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54						
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49						
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45						
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42						
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	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°	737.7	5.7
10°-20°	2207.7	17.0
20°-30°	3380.9	26.1
30°-40°	3314.4	25.5
40°-50°	1995.9	15.4
50°-60°	918.7	7.1
60°-70°	322.7	2.5
70°-80°	84.4	0.7
80°-90°	14.4	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°	6326.3	48.8
0°-40°	9640.7	74.3
0°-60°	12555.4	96.8
0°-90°	12976.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12976.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7673	7673	7673	7673	7673	
5°	7282	7351	7602	8057	8333	688
15°	6723	7085	7627	8530	9305	1899
25°	6253	6705	7519	8086	8423	2880
35°	5174	5246	5680	5353	5181	3241
45°	3675	3026	2051	2065	2119	2818
55°	2087	1653	588	462	445	1862
65°	886	613	93	47	50	902
75°	230	133	7	0	0	278
85°	36	18	4	0	0	49
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°	7673.3	7673.3	7673.3	7673.3	7673.3	7673.3	7673.3	7673.3	7673.3	7673.3	7673.3
2.5°	7494.0	7501.2	7501.2	7501.2	7515.4	7519.2	7515.4	7519.2	7526.2	7551.3	7562.1
5°	7282.5	7271.7	7278.9	7275.3	7293.3	7304.0	7296.8	7307.6	7332.6	7350.6	7368.5
7.5°	7131.9	7131.9	7131.9	7139.0	7149.7	7171.3	7167.7	7174.8	7199.9	7225.0	7250.1
10°	7013.6	7010.0	7010.0	7027.9	7042.2	7067.2	7074.4	7096.0	7128.2	7160.5	7189.2
12.5°	6859.4	6863.0	6880.8	6898.8	6931.0	6970.4	6992.0	7020.8	7071.0	7124.6	7157.0
15°	6723.1	6726.6	6741.1	6776.8	6816.4	6863.0	6909.5	6956.1	7017.1	7085.2	7142.6
17.5°	6590.4	6594.0	6604.8	6644.2	6694.4	6755.4	6809.2	6870.0	6949.0	7027.9	7099.5
20°	6468.5	6464.9	6482.8	6518.7	6583.3	6640.5	6694.4	6766.2	6852.3	6949.0	7031.4
22.5°	6350.2	6350.2	6368.2	6404.0	6461.4	6518.7	6576.1	6651.3	6737.4	6830.7	6927.5
25°	6253.3	6249.7	6274.9	6292.9	6335.8	6393.3	6454.1	6515.1	6601.2	6705.2	6798.4
27.5°	6149.4	6145.9	6149.4	6171.0	6210.3	6253.3	6300.0	6353.8	6425.6	6511.6	6601.2
30°	5919.9	5923.5	5923.5	5941.5	5963.0	6009.5	6034.6	6088.5	6153.0	6224.6	6303.6
32.5°	5579.3	5582.8	5582.8	5590.0	5607.9	5629.5	5651.0	5690.4	5740.5	5801.5	5873.3
35°	5174.1	5174.1	5170.5	5174.1	5184.9	5184.9	5202.8	5184.9	5210.0	5245.9	5299.7
37.5°	4801.2	4794.0	4786.9	4779.7	4768.9	4751.0	4725.9	4682.8	4672.0	4657.7	4661.3
40°	4471.3	4467.8	4446.2	4428.2	4392.3	4349.5	4288.5	4213.2	4152.3	4080.5	4019.5
42.5°	4105.6	4101.9	4084.1	4051.7	4012.3	3947.8	3851.0	3750.6	3628.8	3521.1	3410.0
45°	3675.3	3686.1	3661.0	3625.1	3578.4	3517.4	3410.0	3287.9	3166.1	3026.2	2886.4
47.5°	3227.1	3223.5	3205.6	3184.1	3144.7	3083.7	3012.0	2879.3	2750.2	2621.1	2477.7
50°	2811.2	2796.8	2789.5	2768.2	2743.1	2692.9	2617.4	2509.9	2395.2	2273.3	2140.6
52.5°	2416.7	2416.7	2398.7	2384.4	2362.8	2323.5	2259.0	2172.9	2076.1	1961.3	1821.5
55°	2086.9	2079.7	2061.8	2043.8	2022.3	1997.2	1940.0	1868.2	1764.1	1653.0	1531.1
57.5°	1735.5	1731.8	1724.7	1703.1	1692.3	1667.2	1602.8	1531.1	1441.5	1344.7	1244.1
60°	1420.0	1405.6	1391.2	1376.9	1359.0	1333.9	1290.8	1229.9	1154.6	1068.5	968.2
62.5°	1136.7	1158.1	1115.2	1115.2	1079.3	1057.7	1018.4	982.5	903.5	824.7	738.7
65°	885.7	885.7	867.7	853.3	831.8	806.7	767.4	731.5	674.0	613.1	552.2
67.5°	677.7	674.0	656.2	641.8	623.8	609.5	580.9	537.9	494.9	444.7	394.3
70°	498.4	494.9	491.2	466.1	451.8	433.9	412.3	383.7	351.4	315.6	268.9
72.5°	358.5	358.5	347.8	337.0	322.8	308.4	286.9	268.9	240.3	215.2	182.8
75°	229.5	226.0	226.0	207.9	207.9	186.4	172.1	161.3	147.0	132.6	104.1
77.5°	165.0	161.3	157.7	150.5	143.4	136.2	125.4	111.2	100.4	86.1	75.3
80°	111.2	104.1	100.4	100.4	89.6	86.1	89.6	68.2	64.5	53.8	46.7
82.5°	68.2	68.2	64.5	64.5	61.0	57.4	46.7	46.7	43.1	39.4	32.3
85°	35.9	46.7	32.3	35.9	32.3	35.9	32.3	25.1	21.6	17.9	17.9
87.5°	21.6	14.3	14.3	21.6	17.9	14.3	14.3	14.3	10.8	7.2	7.2
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°	7673.3	7673.3	7673.3	7673.3	7673.3	7673.3	7673.3	7673.3	7673.3	7673.3	7673.3
2.5°	7555.0	7580.1	7576.4	7608.7	7619.5	7644.6	7644.6	7662.5	7673.3	7698.4	7719.9
5°	7375.7	7415.1	7425.9	7465.3	7497.7	7537.0	7562.1	7601.5	7637.4	7691.3	7741.5
7.5°	7264.6	7296.8	7318.4	7364.9	7400.8	7443.8	7486.9	7540.5	7590.7	7655.4	7727.2
10°	7210.7	7253.8	7286.0	7332.6	7375.7	7422.3	7465.3	7526.2	7583.6	7666.2	7745.0
12.5°	7196.4	7246.6	7286.0	7350.6	7393.6	7443.8	7494.0	7562.1	7623.1	7709.1	7798.8
15°	7196.4	7264.6	7318.4	7390.0	7440.2	7504.8	7558.5	7626.6	7694.8	7784.4	7870.4
17.5°	7182.1	7264.6	7332.6	7415.1	7479.6	7544.2	7612.3	7676.9	7748.6	7834.7	7931.4
20°	7124.6	7228.7	7311.0	7407.9	7476.1	7547.8	7616.0	7687.6	7763.0	7852.6	7935.1
22.5°	7024.3	7146.2	7239.5	7343.4	7422.3	7494.0	7562.1	7633.8	7716.4	7802.4	7888.4
25°	6891.6	7006.3	7106.8	7214.3	7293.3	7372.0	7436.7	7519.2	7594.4	7676.9	7745.0
27.5°	6690.7	6812.7	6909.5	7020.8	7092.3	7167.7	7221.5	7289.7	7361.4	7429.4	7483.3
30°	6389.7	6500.8	6601.2	6701.5	6773.3	6827.2	6884.4	6938.2	6984.9	7031.4	7078.0
32.5°	5948.6	6049.0	6145.9	6239.0	6296.4	6343.1	6386.0	6418.3	6443.4	6468.5	6472.0
35°	5342.7	5425.1	5486.0	5568.5	5622.4	5665.3	5665.3	5679.7	5676.1	5665.3	5654.6
37.5°	4664.9	4697.1	4722.2	4754.6	4758.1	4758.1	4736.7	4718.7	4690.0	4682.8	4661.3
40°	3958.6	3915.6	3883.2	3840.2	3815.1	3761.3	3714.8	3682.5	3635.9	3628.8	3621.5
42.5°	3287.9	3187.6	3098.0	3022.8	2936.7	2861.3	2793.3	2743.1	2707.2	2703.5	2707.2
45°	2743.1	2628.2	2495.6	2391.6	2294.9	2201.6	2112.0	2051.0	2018.7	2011.5	2018.7
47.5°	2330.7	2198.0	2068.9	1950.5	1846.6	1742.6	1653.0	1570.5	1531.1	1520.3	1516.7
50°	2004.4	1868.2	1731.8	1609.9	1495.2	1391.2	1280.0	1201.3	1151.0	1133.0	1118.7
52.5°	1685.4	1563.4	1423.5	1298.0	1183.2	1061.3	946.6	856.9	806.7	785.4	770.8
55°	1405.6	1283.7	1154.6	1032.6	910.8	788.8	674.0	588.0	534.3	509.2	491.2
57.5°	1122.3	1007.6	896.4	774.6	674.0	555.9	441.0	365.7	319.0	290.5	276.2
60°	867.7	778.1	681.3	580.9	484.1	387.2	294.0	222.3	186.4	165.0	147.0
62.5°	656.2	580.9	516.3	430.2	354.9	272.5	200.8	143.4	111.2	93.3	86.1
65°	473.3	415.9	358.5	304.8	251.1	190.1	136.2	93.3	64.5	53.8	50.2
67.5°	337.0	290.5	247.4	211.5	172.1	136.2	96.9	64.5	50.2	43.1	39.4
70°	236.6	200.8	172.1	140.0	114.6	89.6	75.3	46.7	28.7	32.3	25.1
72.5°	157.7	132.6	118.4	96.9	78.9	64.5	46.7	32.3	32.3	25.1	21.6
75°	86.1	78.9	61.0	46.7	39.4	35.9	14.3	7.2	3.5	10.8	3.5
77.5°	61.0	53.8	46.7	39.4	32.3	25.1	14.3	14.3	10.8	14.3	7.2
80°	39.4	32.3	28.7	28.7	17.9	10.8	7.2	7.2	10.8	3.5	3.5
82.5°	25.1	21.6	17.9	17.9	17.9	10.8	10.8	10.8	10.8	7.2	7.2
85°	14.3	10.8	7.2	7.2	3.5	7.2	0.0	3.5	3.5	0.0	0.0
87.5°	7.2	3.5	3.5	3.5	3.5	0.0	0.0	3.5	0.0	3.5	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°	7673.3	7673.3	7673.3	7673.3	7673.3	7673.3	7673.3	7673.3	7673.3	7673.3	7673.3
2.5°	7734.3	7748.6	7766.6	7780.8	7813.1	7820.2	7834.7	7849.0	7859.8	7870.4	7874.1
5°	7784.4	7838.2	7888.4	7942.2	8010.3	8057.0	8110.7	8157.4	8203.9	8243.4	8272.0
7.5°	7798.8	7881.2	7956.7	8049.7	8150.1	8236.4	8325.9	8415.4	8508.7	8580.5	8641.5
10°	7827.5	7927.9	8024.6	8135.8	8264.9	8379.6	8490.7	8609.1	8727.5	8827.9	8917.5
12.5°	7877.7	7988.8	8092.8	8214.8	8347.4	8476.4	8598.4	8731.0	8856.6	8967.7	9068.1
15°	7960.2	8064.1	8164.6	8279.2	8412.0	8530.3	8652.2	8781.2	8906.8	9021.5	9114.8
17.5°	8013.9	8110.7	8211.0	8315.1	8426.2	8533.8	8648.6	8763.3	8878.1	8982.1	9068.1
20°	8013.9	8107.2	8182.5	8275.7	8379.6	8472.9	8566.2	8666.6	8766.9	8853.0	8935.4
22.5°	7949.4	8039.0	8096.4	8168.1	8257.7	8336.7	8386.9	8498.0	8573.3	8648.6	8709.5
25°	7798.8	7863.3	7910.0	7960.2	8031.9	8085.6	8128.7	8193.3	8268.5	8297.2	8340.2
27.5°	7526.2	7572.9	7598.0	7608.7	7644.6	7673.3	7680.5	7709.1	7741.5	7748.6	7766.6
30°	7096.0	7099.5	7088.8	7085.2	7067.2	7045.9	7042.2	7038.7	7024.3	7010.0	7013.6
32.5°	6446.9	6429.0	6386.0	6339.5	6292.9	6242.7	6213.9	6178.0	6156.4	6135.1	6110.0
35°	5607.9	5564.9	5504.0	5446.6	5392.9	5353.3	5288.8	5267.2	5245.9	5217.1	5210.0
37.5°	4621.8	4596.8	4539.4	4496.4	4467.8	4449.8	4417.4	4396.0	4396.0	4385.2	4378.0
40°	3603.5	3596.4	3574.9	3585.6	3571.3	3578.4	3574.9	3567.6	3585.6	3585.6	3592.9
42.5°	2703.5	2707.2	2718.0	2725.1	2746.6	2750.2	2768.2	2768.2	2779.0	2789.5	2796.8
45°	2011.5	2025.9	2025.9	2040.3	2061.8	2065.4	2072.5	2076.1	2083.2	2101.2	2108.2
47.5°	1509.5	1513.1	1513.1	1516.7	1523.8	1531.1	1527.5	1531.1	1541.8	1534.6	1541.8
50°	1115.2	1118.7	1107.9	1097.2	1107.9	1107.9	1104.4	1093.6	1104.4	1090.1	1097.2
52.5°	760.3	756.6	745.8	749.5	742.3	738.7	738.7	731.5	731.5	731.5	717.1
55°	480.6	480.6	473.3	473.3	469.8	462.5	459.0	455.3	451.8	448.2	448.2
57.5°	268.9	272.5	261.8	258.2	261.8	258.2	251.1	251.1	251.1	240.3	247.4
60°	147.0	143.4	140.0	136.2	132.6	136.2	136.2	129.2	129.2	129.2	132.6
62.5°	78.9	78.9	75.3	75.3	71.8	71.8	78.9	68.2	71.8	68.2	71.8
65°	43.1	53.8	39.4	39.4	50.2	46.7	43.1	43.1	46.7	39.4	43.1
67.5°	46.7	32.3	28.7	32.3	28.7	28.7	28.7	35.9	32.3	25.1	32.3
70°	21.6	25.1	25.1	17.9	28.7	14.3	25.1	14.3	21.6	17.9	21.6
72.5°	21.6	21.6	21.6	14.3	21.6	14.3	17.9	17.9	14.3	14.3	21.6
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°	7.2	7.2	3.5	3.5	3.5	3.5	7.2	7.2	7.2	0.0	3.5
80°	7.2	7.2	0.0	3.5	0.0	0.0	3.5	0.0	3.5	0.0	7.2
82.5°	3.5	7.2	3.5	3.5	7.2	7.2	7.2	3.5	3.5	3.5	3.5
85°	0.0	3.5	0.0	0.0	0.0	0.0	7.2	0.0	0.0	0.0	3.5
87.5°	0.0	3.5	0.0	0.0	0.0	0.0	3.5	3.5	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: P250278

CATALOG NUMBER: LSR8B150D010 EC8B150927 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	7673.3	7673.3	7673.3	7673.3
2.5°	7877.7	7881.2	7888.4	7884.9
5°	8293.6	8322.3	8336.7	8333.1
7.5°	8684.3	8734.7	8763.3	8763.3
10°	8985.6	9043.0	9085.9	9093.2
12.5°	9146.9	9211.6	9269.0	9254.5
15°	9193.6	9258.2	9315.4	9304.6
17.5°	9139.8	9204.3	9247.4	9240.2
20°	8992.8	9046.6	9089.7	9085.9
22.5°	8763.3	8810.0	8845.9	8842.2
25°	8376.1	8408.4	8437.1	8422.6
27.5°	7780.8	7791.6	7809.5	7788.0
30°	6988.5	6995.5	7002.8	6999.2
32.5°	6099.2	6095.6	6088.5	6081.2
35°	5199.2	5199.2	5202.8	5181.2
37.5°	4381.7	4378.0	4388.8	4378.0
40°	3600.0	3596.4	3610.7	3592.9
42.5°	2807.5	2818.4	2821.8	2821.8
45°	2112.0	2115.6	2119.0	2119.0
47.5°	1541.8	1545.4	1563.4	1541.8
50°	1090.1	1093.6	1097.2	1090.1
52.5°	720.7	724.4	720.7	709.9
55°	441.0	444.7	444.7	444.7
57.5°	236.6	240.3	240.3	236.6
60°	129.2	125.4	129.2	122.0
62.5°	68.2	75.3	71.8	64.5
65°	43.1	43.1	43.1	50.2
67.5°	35.9	28.7	32.3	25.1
70°	21.6	25.1	25.1	17.9
72.5°	17.9	17.9	17.9	21.6
75°	0.0	0.0	0.0	0.0
77.5°	7.2	7.2	7.2	3.5
80°	3.5	0.0	3.5	0.0
82.5°	3.5	3.5	7.2	3.5
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)