

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: P248350

Luminaire Tested: **LSR8B150D010 EC8B150835 8LBDW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248350  
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 EC8B150835 8LBDWOLI  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17064.0 lumens  
Efficiency: N/A  
Efficacy: 107.7 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

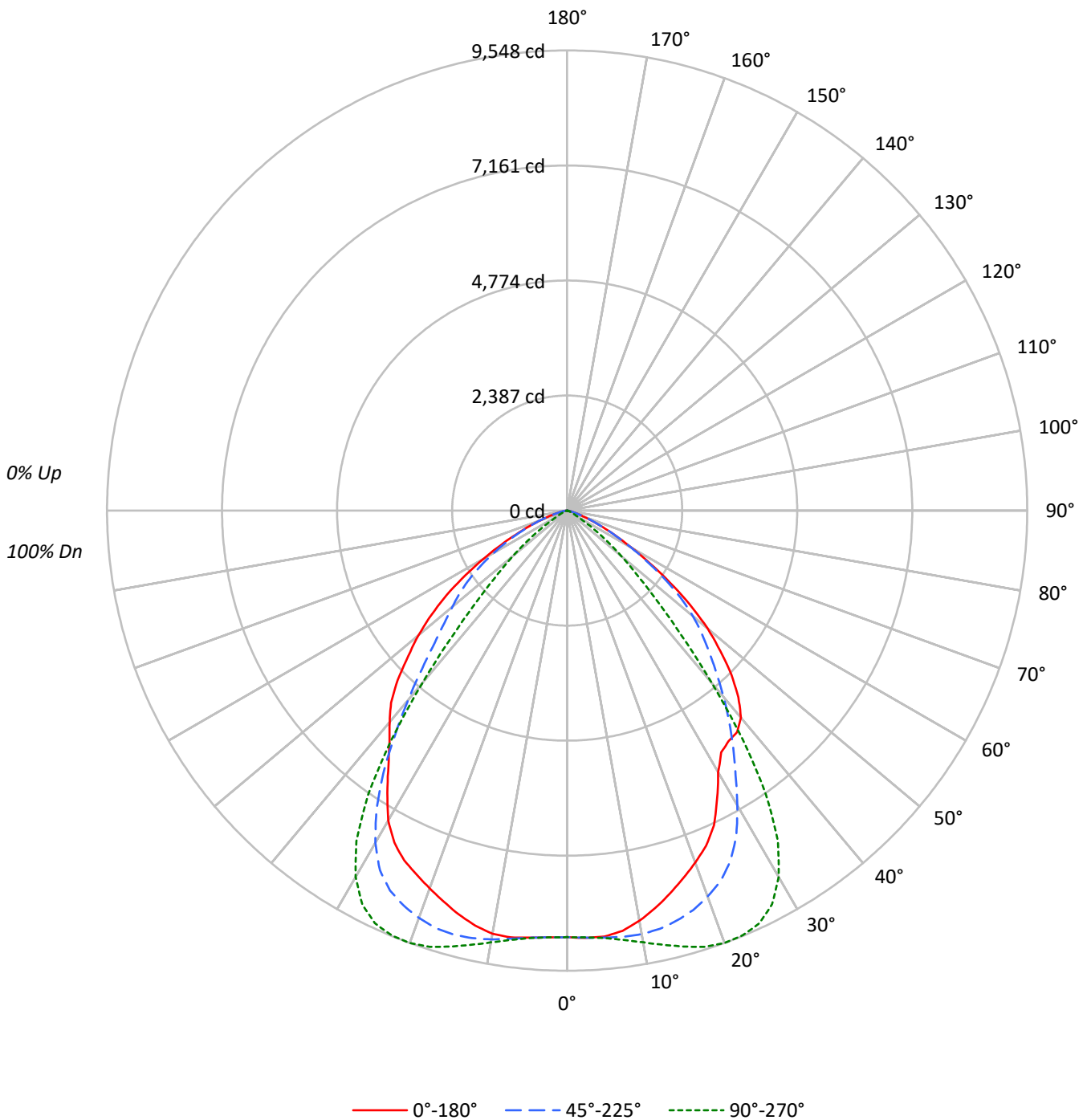
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	272969	272969	272969
5°	274597	275612	275321
10°	270561	284833	279244
15°	262649	298950	277050
20°	255028	313308	273683
25°	245236	321334	272414
30°	223179	312524	264337
35°	219857	270801	243204
40°	225833	187817	230559
45°	210231	113515	216790
50°	182354	70098	193177
55°	139941	36628	163940
60°	95340	14777	123734
65°	59306	7545	85362
70°	32196	4661	52103
75°	16799	2228	30786
80°	7512	2504	16675
85°	4989	1663	14966



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	851.3	5.0
10°-20°	2521.9	14.8
20°-30°	3847.4	22.5
30°-40°	4014.8	23.5
40°-50°	3015.6	17.7
50°-60°	1855.5	10.9
60°-70°	755.1	4.4
70°-80°	177.9	1.0
80°-90°	24.5	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°	7220.6	42.3
0°-40°	11235.4	65.8
0°-60°	16106.5	94.4
0°-90°	17064.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17064.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	8852	8852	8852	8852	8852	
5°	8871	8894	8904	8894	8894	839
15°	8227	8805	9364	9106	8678	2318
25°	7208	8016	9444	8697	8006	3277
35°	5840	6005	7194	6649	6461	3688
45°	4821	4172	2603	3886	4971	3678
55°	2603	2472	681	2472	3049	2340
65°	813	822	103	1104	1170	848
75°	141	141	19	249	258	170
85°	14	14	5	33	42	20
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°	8852.2	8852.2	8852.2	8852.2	8852.2	8852.2	8852.2	8852.2	8852.2	8852.2	8852.2
2.5°	8875.8	8861.6	8875.8	8875.8	8880.5	8871.1	8875.8	8880.5	8871.1	8871.1	8871.1
5°	8871.1	8861.6	8871.1	8866.3	8875.8	8875.8	8885.2	8885.2	8894.5	8894.5	8908.6
7.5°	8795.9	8777.1	8795.9	8810.0	8819.3	8838.2	8861.6	8880.5	8899.2	8918.1	8941.5
10°	8640.8	8640.8	8654.9	8683.1	8711.3	8744.1	8786.4	8833.5	8880.5	8922.7	8965.0
12.5°	8448.2	8434.1	8462.2	8499.8	8542.1	8593.9	8659.6	8730.1	8805.3	8889.8	8955.7
15°	8227.3	8213.2	8246.1	8283.7	8335.4	8410.6	8490.5	8584.4	8692.5	8805.3	8913.4
17.5°	8001.8	7997.1	8029.9	8081.7	8124.0	8203.8	8307.2	8419.9	8542.1	8692.5	8833.5
20°	7771.6	7766.9	7799.8	7842.1	7898.4	7973.6	8077.0	8208.5	8354.2	8523.4	8687.8
22.5°	7531.9	7536.6	7564.8	7611.8	7658.8	7738.6	7846.7	7978.3	8138.0	8321.3	8504.5
25°	7207.7	7184.2	7221.8	7268.9	7348.6	7414.4	7517.9	7658.8	7823.2	8015.9	8232.1
27.5°	6737.8	6733.1	6766.1	6808.3	6878.8	6958.7	7071.5	7217.1	7391.0	7602.4	7813.8
30°	6267.9	6277.4	6291.5	6333.8	6380.7	6460.6	6573.4	6695.6	6860.0	7062.0	7287.6
32.5°	5948.5	5948.5	5967.3	5995.5	6028.4	6070.7	6150.6	6239.8	6366.7	6507.7	6672.1
35°	5840.4	5821.6	5840.4	5845.1	5849.8	5859.2	5873.3	5901.5	5943.7	6004.9	6065.9
37.5°	5793.5	5779.3	5779.3	5760.6	5737.0	5708.9	5671.3	5629.0	5582.0	5520.9	5474.0
40°	5610.2	5600.8	5591.4	5572.6	5520.9	5464.5	5403.4	5304.7	5196.7	5046.3	4896.0
42.5°	5257.8	5248.4	5243.7	5206.1	5159.1	5093.3	5022.8	4919.5	4783.2	4590.6	4374.4
45°	4820.8	4802.0	4788.0	4755.1	4722.1	4665.8	4600.0	4505.9	4369.7	4172.4	3914.0
47.5°	4313.4	4303.9	4299.2	4285.2	4252.3	4219.3	4177.1	4101.9	3979.7	3791.8	3524.0
50°	3801.2	3782.4	3791.8	3787.2	3773.0	3749.6	3721.3	3669.7	3575.6	3406.5	3162.2
52.5°	3213.8	3213.8	3209.2	3223.2	3228.0	3223.2	3228.0	3171.6	3091.7	2964.8	2758.1
55°	2603.0	2603.0	2617.1	2636.0	2654.7	2659.4	2654.7	2631.3	2574.8	2471.5	2288.2
57.5°	2029.8	2020.4	2048.6	2076.8	2095.6	2114.4	2100.2	2081.5	2048.6	1964.0	1823.1
60°	1545.9	1545.9	1564.6	1583.5	1602.2	1621.0	1616.3	1611.6	1583.5	1527.0	1414.3
62.5°	1137.0	1141.7	1141.7	1155.9	1174.6	1193.5	1207.5	1193.5	1179.3	1141.7	1066.6
65°	812.8	808.1	812.8	827.0	841.1	859.8	869.3	864.6	850.4	822.3	765.9
67.5°	545.1	540.3	559.1	563.8	573.2	592.1	587.4	592.1	587.4	563.8	516.9
70°	357.1	347.7	357.1	352.4	366.5	371.2	380.5	385.3	380.5	366.5	352.4
72.5°	220.9	216.1	220.9	225.6	230.3	234.9	244.3	244.3	239.6	230.3	211.4
75°	141.0	126.8	131.5	122.2	131.5	131.5	141.0	145.7	141.0	141.0	131.5
77.5°	84.6	84.6	84.6	84.6	84.6	84.6	84.6	89.3	93.9	84.6	79.9
80°	42.3	42.3	47.0	47.0	47.0	51.7	47.0	47.0	47.0	51.7	37.6
82.5°	32.9	28.2	28.2	28.2	32.9	28.2	28.2	28.2	28.2	28.2	28.2
85°	14.1	18.7	14.1	9.4	14.1	14.1	18.7	14.1	14.1	14.1	18.7
87.5°	4.7	4.7	0.0	0.0	0.0	4.7	0.0	4.7	4.7	9.4	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°	8852.2	8852.2	8852.2	8852.2	8852.2	8852.2	8852.2	8852.2	8852.2	8852.2	8852.2
2.5°	8875.8	8866.3	8866.3	8861.6	8871.1	8861.6	8866.3	8861.6	8861.6	8871.1	8861.6
5°	8908.6	8913.4	8903.9	8899.2	8913.4	8913.4	8913.4	8903.9	8903.9	8908.6	8903.9
7.5°	8955.7	8965.0	8969.7	8974.4	8983.8	8988.6	8988.6	8983.8	8979.1	8993.3	8974.4
10°	9007.3	9021.4	9049.6	9063.7	9087.2	9087.2	9096.6	9096.6	9087.2	9096.6	9091.9
12.5°	8988.6	9073.1	9120.1	9153.0	9185.8	9214.0	9223.4	9228.1	9223.4	9242.3	9223.4
15°	9021.4	9091.9	9167.1	9223.4	9284.5	9317.4	9326.8	9364.4	9373.8	9378.5	9350.4
17.5°	8969.7	9096.6	9176.4	9261.0	9350.4	9411.4	9467.7	9491.3	9496.0	9505.3	9467.7
20°	8852.2	8993.3	9115.4	9237.6	9340.9	9434.9	9481.9	9547.6	9528.9	9566.5	9514.8
22.5°	8692.5	8852.2	9007.3	9167.1	9275.2	9387.9	9486.6	9533.5	9557.1	9557.1	9500.6
25°	8438.8	8626.7	8795.9	8960.3	9124.8	9261.0	9373.8	9444.3	9458.4	9453.7	9387.9
27.5°	8044.1	8246.1	8443.5	8631.5	8833.5	8993.3	9124.8	9209.3	9232.9	9232.9	9162.4
30°	7499.0	7715.2	7907.9	8133.3	8340.1	8518.7	8701.9	8777.1	8819.3	8819.3	8739.5
32.5°	6850.6	7033.9	7212.4	7433.3	7658.8	7860.8	8034.7	8138.0	8189.8	8185.0	8114.6
35°	6145.8	6235.1	6371.4	6535.8	6737.8	6925.8	7094.9	7193.7	7282.9	7278.2	7212.4
37.5°	5441.0	5417.5	5431.7	5492.7	5619.5	5751.2	5882.7	5976.7	6051.8	6084.8	6070.7
40°	4750.4	4628.2	4510.7	4468.5	4477.8	4524.8	4595.3	4665.8	4750.4	4792.7	4811.4
42.5°	4130.1	3923.4	3716.6	3561.6	3472.3	3444.1	3477.0	3500.4	3552.2	3613.2	3674.4
45°	3632.1	3354.9	3082.3	2842.7	2692.3	2603.0	2584.3	2603.0	2631.3	2692.3	2772.2
47.5°	3223.2	2899.0	2593.7	2325.8	2105.0	1987.6	1954.7	1945.3	1973.4	2029.8	2137.8
50°	2861.4	2537.2	2199.0	1888.8	1658.6	1527.0	1480.1	1461.2	1494.1	1536.4	1635.1
52.5°	2466.8	2147.3	1799.6	1498.8	1259.2	1123.0	1071.3	1043.1	1061.8	1118.3	1216.9
55°	2039.2	1743.1	1428.4	1118.3	888.0	761.2	700.0	681.3	700.0	761.2	859.8
57.5°	1611.6	1362.6	1099.4	808.1	601.4	474.6	413.4	394.7	446.4	469.9	573.2
60°	1259.2	1057.2	831.7	592.1	413.4	314.8	253.7	239.6	263.2	305.4	390.0
62.5°	944.5	817.5	639.0	422.9	305.4	202.0	169.1	155.1	169.1	202.0	267.9
65°	686.0	587.4	446.4	310.1	206.7	150.4	112.8	103.4	117.5	141.0	197.4
67.5°	469.9	394.7	310.1	216.1	141.0	93.9	79.9	79.9	84.6	103.4	145.7
70°	305.4	258.4	197.4	141.0	93.9	70.5	61.0	51.7	61.0	75.2	98.6
72.5°	192.7	164.4	126.8	98.6	70.5	51.7	42.3	37.6	47.0	56.3	75.2
75°	117.5	89.3	65.8	51.7	37.6	37.6	37.6	18.7	23.5	37.6	47.0
77.5°	70.5	61.0	51.7	42.3	32.9	18.7	18.7	18.7	23.5	28.2	42.3
80°	37.6	32.9	23.5	23.5	18.7	14.1	18.7	14.1	9.4	23.5	28.2
82.5°	23.5	18.7	18.7	18.7	23.5	9.4	14.1	9.4	14.1	18.7	14.1
85°	14.1	14.1	14.1	9.4	23.5	9.4	9.4	4.7	4.7	9.4	9.4
87.5°	0.0	4.7	4.7	0.0	4.7	0.0	4.7	4.7	4.7	4.7	4.7
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°	8852.2	8852.2	8852.2	8852.2	8852.2	8852.2	8852.2	8852.2	8852.2	8852.2	8852.2
2.5°	8866.3	8861.6	8866.3	8861.6	8861.6	8861.6	8866.3	8866.3	8861.6	8861.6	8871.1
5°	8903.9	8903.9	8903.9	8899.2	8894.5	8894.5	8903.9	8903.9	8889.8	8903.9	8903.9
7.5°	8983.8	8969.7	8983.8	8965.0	8955.7	8960.3	8965.0	8955.7	8946.2	8951.0	8951.0
10°	9087.2	9073.1	9073.1	9059.0	9044.9	9035.5	9026.1	9002.6	8979.1	8974.4	8955.7
12.5°	9209.3	9185.8	9171.8	9143.5	9120.1	9087.2	9059.0	9021.4	8974.4	8941.5	8908.6
15°	9331.5	9293.9	9261.0	9214.0	9162.4	9105.9	9044.9	8983.8	8908.6	8842.9	8786.4
17.5°	9430.1	9378.5	9317.4	9242.3	9167.1	9082.5	8993.3	8903.9	8795.9	8711.3	8645.5
20°	9463.0	9387.9	9308.0	9209.3	9110.6	8993.3	8880.5	8763.0	8640.8	8551.6	8476.4
22.5°	9420.8	9331.5	9232.9	9129.5	8997.9	8871.1	8739.5	8603.2	8495.1	8373.0	8302.5
25°	9303.3	9195.3	9087.2	8965.0	8838.2	8697.2	8556.3	8415.3	8283.7	8217.9	8128.7
27.5°	9063.7	8946.2	8828.7	8701.9	8556.3	8415.3	8269.7	8133.3	8020.6	7931.3	7879.7
30°	8640.8	8504.5	8368.3	8232.1	8105.1	7959.5	7823.2	7710.5	7597.7	7527.2	7475.6
32.5°	7992.4	7870.3	7734.0	7602.4	7485.0	7362.8	7250.0	7151.4	7071.5	7024.4	6986.8
35°	7118.5	6996.3	6892.9	6799.0	6700.2	6648.6	6578.1	6521.7	6488.8	6470.1	6465.3
37.5°	6018.9	5948.5	5915.6	5896.8	5878.0	5863.9	5873.3	5896.8	5915.6	5948.5	5986.0
40°	4844.3	4905.3	4924.2	4990.0	5051.0	5130.9	5220.2	5323.6	5408.1	5516.2	5591.4
42.5°	3773.0	3885.8	4017.3	4158.3	4308.7	4454.3	4632.9	4797.3	4947.7	5083.9	5201.4
45°	2899.0	3072.9	3270.3	3472.3	3674.4	3885.8	4101.9	4303.9	4482.5	4628.2	4750.4
47.5°	2260.0	2452.7	2706.5	2955.5	3199.8	3448.8	3688.4	3899.8	4050.2	4191.2	4299.2
50°	1790.2	2011.0	2288.2	2574.8	2842.7	3105.8	3359.5	3556.9	3707.3	3820.0	3899.8
52.5°	1386.1	1649.2	1931.1	2231.9	2518.5	2805.1	3040.0	3223.2	3345.5	3444.1	3505.1
55°	1033.7	1292.1	1592.9	1903.0	2194.3	2471.5	2692.3	2852.1	2960.2	3016.5	3049.4
57.5°	747.1	982.1	1282.7	1592.9	1855.9	2119.1	2297.6	2443.3	2504.4	2537.2	2551.4
60°	545.1	761.2	1029.0	1296.8	1545.9	1757.3	1912.4	2011.0	2058.0	2076.8	2072.1
62.5°	399.4	587.4	817.5	1043.1	1245.1	1418.9	1541.1	1606.9	1630.5	1639.8	1625.8
65°	305.4	451.0	648.4	822.3	977.3	1104.2	1193.5	1235.8	1249.8	1245.1	1235.8
67.5°	225.6	338.3	484.0	615.5	728.3	827.0	874.0	911.6	920.9	906.9	892.7
70°	159.8	249.0	352.4	441.7	526.2	582.7	634.3	639.0	639.0	634.3	625.0
72.5°	112.8	173.8	239.6	300.8	352.4	394.7	413.4	427.6	422.9	418.1	408.8
75°	75.2	108.1	173.8	188.0	234.9	249.0	267.9	267.9	272.5	258.4	258.4
77.5°	47.0	75.2	103.4	122.2	141.0	159.8	169.1	169.1	173.8	169.1	169.1
80°	28.2	47.0	56.3	84.6	84.6	98.6	103.4	108.1	98.6	112.8	98.6
82.5°	18.7	28.2	42.3	42.3	51.7	61.0	61.0	65.8	65.8	61.0	61.0
85°	14.1	18.7	23.5	28.2	28.2	32.9	28.2	28.2	32.9	37.6	32.9
87.5°	4.7	9.4	4.7	9.4	9.4	18.7	14.1	14.1	14.1	18.7	18.7
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: P248350

CATALOG NUMBER: LSR8B150D010 EC8B150835 8LBDWOLI

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	8852.2	8852.2	8852.2	8852.2
2.5°	8861.6	8866.3	8861.6	8861.6
5°	8903.9	8899.2	8903.9	8894.5
7.5°	8936.8	8936.8	8932.1	8932.1
10°	8936.8	8918.1	8918.1	8918.1
12.5°	8866.3	8842.9	8828.7	8819.3
15°	8744.1	8701.9	8683.1	8678.4
17.5°	8584.4	8546.8	8523.4	8509.3
20°	8401.2	8363.6	8335.4	8340.1
22.5°	8241.4	8199.2	8180.3	8170.9
25°	8081.7	8029.9	8015.9	8006.5
27.5°	7823.2	7795.1	7780.9	7766.9
30°	7428.6	7414.4	7391.0	7423.8
32.5°	6972.8	6949.3	6930.5	6944.6
35°	6470.1	6455.9	6470.1	6460.6
37.5°	6009.6	6023.6	6042.5	6051.8
40°	5647.8	5699.4	5718.3	5727.6
42.5°	5286.0	5347.1	5384.6	5408.1
45°	4839.6	4900.6	4942.9	4971.2
47.5°	4379.1	4430.9	4473.1	4468.5
50°	3961.0	3989.2	4007.9	4026.8
52.5°	3538.0	3538.0	3542.7	3542.7
55°	3058.8	3049.4	3044.7	3049.4
57.5°	2532.5	2523.2	2518.5	2504.4
60°	2053.3	2025.2	2006.3	2006.3
62.5°	1606.9	1574.0	1560.0	1555.3
65°	1207.5	1202.8	1174.6	1169.9
67.5°	874.0	855.1	836.4	841.1
70°	615.5	587.4	587.4	577.9
72.5°	399.4	385.3	380.5	380.5
75°	249.0	249.0	239.6	258.4
77.5°	164.4	164.4	159.8	164.4
80°	98.6	98.6	98.6	93.9
82.5°	61.0	65.8	61.0	61.0
85°	32.9	37.6	28.2	42.3
87.5°	18.7	23.5	18.7	23.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)