

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: P248394

Luminaire Tested: **LSR8B120D010 EC8B120935 8LBDW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248394  
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: LSR8B120D010 EC8B120935 8LBDWOLI  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11050.0 lumens  
Efficiency: N/A  
Efficacy: 93.4 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

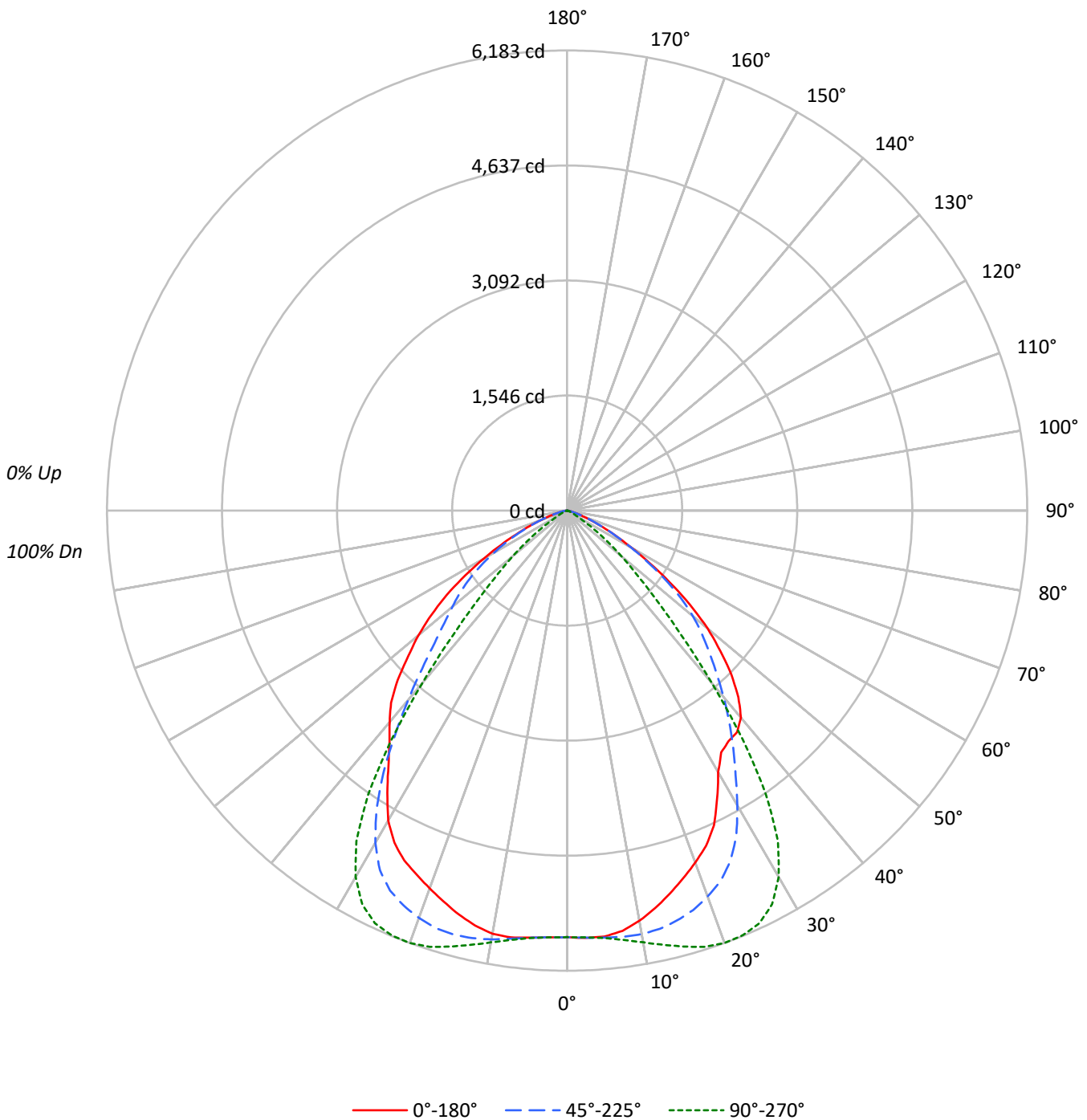
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	176766	176766	176766
5°	177819	178478	178286
10°	175203	184447	180827
15°	170082	193588	179407
20°	165146	202887	177229
25°	158804	208085	176405
30°	144524	202378	171176
35°	142370	175358	157492
40°	146243	121623	149302
45°	136139	73508	140387
50°	118085	45392	125094
55°	90620	23720	106163
60°	61734	9572	80125
65°	38409	4881	55278
70°	20845	3020	33747
75°	10878	1442	19944
80°	4866	1634	10797
85°	3255	1097	9694



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	551.3	5.0
10°-20°	1633.1	14.8
20°-30°	2491.4	22.5
30°-40°	2599.8	23.5
40°-50°	1952.8	17.7
50°-60°	1201.5	10.9
60°-70°	489.0	4.4
70°-80°	115.2	1.0
80°-90°	15.9	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°	4675.8	42.3
0°-40°	7275.6	65.8
0°-60°	10430.0	94.4
0°-90°	11050.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11050.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	5732	5732	5732	5732	5732	
5°	5745	5760	5766	5760	5760	544
15°	5328	5702	6064	5897	5620	1501
25°	4667	5191	6116	5632	5185	2122
35°	3782	3888	4658	4305	4184	2388
45°	3122	2702	1686	2516	3219	2382
55°	1686	1600	441	1600	1975	1515
65°	526	532	67	715	758	549
75°	91	91	12	161	167	110
85°	9	9	3	21	27	13
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°	5732.4	5732.4	5732.4	5732.4	5732.4	5732.4	5732.4	5732.4	5732.4	5732.4	5732.4
2.5°	5747.6	5738.5	5747.6	5747.6	5750.7	5744.6	5747.6	5750.7	5744.6	5744.6	5744.6
5°	5744.6	5738.5	5744.6	5741.5	5747.6	5747.6	5753.7	5753.7	5759.7	5759.7	5768.9
7.5°	5695.9	5683.7	5695.9	5705.0	5711.1	5723.3	5738.5	5750.7	5762.8	5775.0	5790.2
10°	5595.4	5595.4	5604.6	5622.8	5641.1	5662.4	5689.8	5720.2	5750.7	5778.0	5805.4
12.5°	5470.7	5461.6	5479.8	5504.2	5531.6	5565.1	5607.6	5653.3	5702.0	5756.7	5799.4
15°	5327.7	5318.6	5339.9	5364.2	5397.7	5446.4	5498.1	5559.0	5628.9	5702.0	5772.0
17.5°	5181.7	5178.6	5199.9	5233.4	5260.8	5312.5	5379.5	5452.4	5531.6	5628.9	5720.2
20°	5032.6	5029.5	5050.8	5078.2	5114.7	5163.4	5230.3	5315.5	5409.8	5519.4	5625.9
22.5°	4877.4	4880.4	4898.7	4929.1	4959.6	5011.2	5081.2	5166.5	5269.9	5388.5	5507.2
25°	4667.4	4652.2	4676.6	4707.0	4758.7	4801.3	4868.3	4959.6	5066.0	5190.8	5330.8
27.5°	4363.2	4360.1	4381.5	4408.8	4454.4	4506.2	4579.2	4673.5	4786.1	4923.0	5059.9
30°	4058.9	4065.0	4074.1	4101.5	4131.9	4183.7	4256.7	4335.8	4442.3	4573.1	4719.2
32.5°	3852.0	3852.0	3864.2	3882.4	3903.7	3931.1	3982.9	4040.6	4122.8	4214.1	4320.6
35°	3782.0	3769.9	3782.0	3785.1	3788.1	3794.2	3803.3	3821.6	3848.9	3888.5	3928.1
37.5°	3751.6	3742.5	3742.5	3730.3	3715.1	3696.8	3672.5	3645.1	3614.7	3575.1	3544.7
40°	3633.0	3626.9	3620.8	3608.6	3575.1	3538.6	3499.0	3435.2	3365.2	3267.8	3170.5
42.5°	3404.8	3398.7	3395.6	3371.3	3340.8	3298.2	3252.6	3185.7	3097.4	2972.7	2832.7
45°	3121.8	3109.6	3100.5	3079.2	3057.8	3021.4	2978.8	2917.9	2829.7	2701.9	2534.5
47.5°	2793.2	2787.1	2784.0	2774.9	2753.6	2732.3	2705.0	2656.3	2577.1	2455.4	2282.0
50°	2461.5	2449.4	2455.4	2452.4	2443.3	2428.1	2409.8	2376.3	2315.4	2205.9	2047.7
52.5°	2081.1	2081.1	2078.2	2087.3	2090.3	2087.3	2090.3	2053.8	2002.1	1919.9	1786.0
55°	1685.6	1685.6	1694.8	1707.0	1719.1	1722.2	1719.1	1703.9	1667.4	1600.4	1481.8
57.5°	1314.4	1308.4	1326.6	1344.8	1357.1	1369.2	1360.0	1347.9	1326.6	1271.8	1180.5
60°	1001.0	1001.0	1013.2	1025.4	1037.5	1049.7	1046.7	1043.6	1025.4	988.8	915.9
62.5°	736.3	739.4	739.4	748.5	760.6	772.9	781.9	772.9	763.7	739.4	690.7
65°	526.4	523.3	526.4	535.5	544.7	556.8	562.9	559.9	550.7	532.5	496.0
67.5°	353.0	349.9	362.0	365.1	371.2	383.4	380.4	383.4	380.4	365.1	334.7
70°	231.2	225.1	231.2	228.2	237.3	240.4	246.4	249.5	246.4	237.3	228.2
72.5°	143.0	140.0	143.0	146.1	149.1	152.1	158.2	158.2	155.2	149.1	136.9
75°	91.3	82.1	85.2	79.1	85.2	85.2	91.3	94.3	91.3	91.3	85.2
77.5°	54.8	54.8	54.8	54.8	54.8	54.8	54.8	57.8	60.8	54.8	51.7
80°	27.4	27.4	30.4	30.4	30.4	33.5	30.4	30.4	30.4	33.5	24.3
82.5°	21.3	18.2	18.2	18.2	21.3	18.2	18.2	18.2	18.2	18.2	18.2
85°	9.2	12.1	9.2	6.1	9.2	9.2	12.1	9.2	9.2	9.2	12.1
87.5°	3.1	3.1	0.0	0.0	0.0	3.1	0.0	3.1	3.1	6.1	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°	5732.4	5732.4	5732.4	5732.4	5732.4	5732.4	5732.4	5732.4	5732.4	5732.4	5732.4
2.5°	5747.6	5741.5	5741.5	5738.5	5744.6	5738.5	5741.5	5738.5	5738.5	5744.6	5738.5
5°	5768.9	5772.0	5765.9	5762.8	5772.0	5772.0	5772.0	5765.9	5765.9	5768.9	5765.9
7.5°	5799.4	5805.4	5808.4	5811.5	5817.6	5820.6	5820.6	5817.6	5814.5	5823.7	5811.5
10°	5832.8	5841.9	5860.2	5869.3	5884.5	5884.5	5890.6	5890.6	5884.5	5890.6	5887.6
12.5°	5820.6	5875.4	5905.8	5927.1	5948.4	5966.6	5972.7	5975.8	5972.7	5985.0	5972.7
15°	5841.9	5887.6	5936.3	5972.7	6012.3	6033.6	6039.7	6064.0	6070.1	6073.2	6054.9
17.5°	5808.4	5890.6	5942.3	5997.1	6054.9	6094.5	6131.0	6146.2	6149.3	6155.3	6131.0
20°	5732.4	5823.7	5902.8	5981.9	6048.8	6109.7	6140.1	6182.7	6170.6	6194.9	6161.4
22.5°	5628.9	5732.4	5832.8	5936.3	6006.2	6079.3	6143.2	6173.5	6188.8	6188.8	6152.2
25°	5464.6	5586.4	5695.9	5802.3	5908.9	5997.1	6070.1	6115.8	6124.9	6121.9	6079.3
27.5°	5209.0	5339.9	5467.7	5589.4	5720.2	5823.7	5908.9	5963.6	5978.8	5978.8	5933.2
30°	4856.1	4996.0	5120.8	5266.8	5400.8	5516.4	5635.0	5683.7	5711.1	5711.1	5659.4
32.5°	4436.2	4554.9	4670.5	4813.5	4959.6	5090.4	5202.9	5269.9	5303.4	5300.3	5254.7
35°	3979.8	4037.6	4125.9	4232.4	4363.2	4484.9	4594.4	4658.3	4716.1	4713.1	4670.5
37.5°	3523.4	3508.2	3517.3	3556.9	3639.0	3724.2	3809.4	3870.3	3918.9	3940.3	3931.1
40°	3076.2	2997.0	2920.9	2893.6	2899.6	2930.1	2975.7	3021.4	3076.2	3103.6	3115.7
42.5°	2674.5	2540.6	2406.7	2306.4	2248.5	2230.3	2251.6	2266.8	2300.3	2339.8	2379.4
45°	2352.0	2172.5	1996.0	1840.8	1743.4	1685.6	1673.5	1685.6	1703.9	1743.4	1795.2
47.5°	2087.3	1877.3	1679.6	1506.1	1363.1	1287.1	1265.8	1259.7	1277.9	1314.4	1384.4
50°	1853.0	1643.0	1424.0	1223.1	1074.1	988.8	958.5	946.2	967.5	994.9	1058.8
52.5°	1597.4	1390.5	1165.3	970.6	815.4	727.2	693.7	675.5	687.6	724.2	788.0
55°	1320.5	1128.8	925.0	724.2	575.0	492.9	453.3	441.2	453.3	492.9	556.8
57.5°	1043.6	882.4	712.0	523.3	389.4	307.3	267.7	255.6	289.1	304.3	371.2
60°	815.4	684.6	538.6	383.4	267.7	203.8	164.3	155.2	170.4	197.7	252.5
62.5°	611.6	529.4	413.8	273.8	197.7	130.8	109.5	100.4	109.5	130.8	173.5
65°	444.2	380.4	289.1	200.8	133.9	97.4	73.0	66.9	76.1	91.3	127.8
67.5°	304.3	255.6	200.8	140.0	91.3	60.8	51.7	51.7	54.8	66.9	94.3
70°	197.7	167.4	127.8	91.3	60.8	45.6	39.5	33.5	39.5	48.7	63.9
72.5°	124.8	106.5	82.1	63.9	45.6	33.5	27.4	24.3	30.4	36.5	48.7
75°	76.1	57.8	42.6	33.5	24.3	24.3	24.3	12.1	15.2	24.3	30.4
77.5°	45.6	39.5	33.5	27.4	21.3	12.1	12.1	12.1	15.2	18.2	27.4
80°	24.3	21.3	15.2	15.2	12.1	9.2	12.1	9.2	6.1	15.2	18.2
82.5°	15.2	12.1	12.1	12.1	15.2	6.1	9.2	6.1	9.2	12.1	9.2
85°	9.2	9.2	9.2	6.1	15.2	6.1	6.1	3.1	3.1	6.1	6.1
87.5°	0.0	3.1	3.1	0.0	3.1	0.0	3.1	3.1	3.1	3.1	3.1
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°	5732.4	5732.4	5732.4	5732.4	5732.4	5732.4	5732.4	5732.4	5732.4	5732.4	5732.4
2.5°	5741.5	5738.5	5741.5	5738.5	5738.5	5738.5	5741.5	5741.5	5738.5	5738.5	5744.6
5°	5765.9	5765.9	5765.9	5762.8	5759.7	5759.7	5765.9	5765.9	5756.7	5765.9	5765.9
7.5°	5817.6	5808.4	5817.6	5805.4	5799.4	5802.3	5805.4	5799.4	5793.2	5796.3	5796.3
10°	5884.5	5875.4	5875.4	5866.3	5857.1	5851.0	5845.0	5829.7	5814.5	5811.5	5799.4
12.5°	5963.6	5948.4	5939.3	5921.0	5905.8	5884.5	5866.3	5841.9	5811.5	5790.2	5768.9
15°	6042.7	6018.4	5997.1	5966.6	5933.2	5896.7	5857.1	5817.6	5768.9	5726.3	5689.8
17.5°	6106.6	6073.2	6033.6	5985.0	5936.3	5881.5	5823.7	5765.9	5695.9	5641.1	5598.5
20°	6127.9	6079.3	6027.5	5963.6	5899.7	5823.7	5750.7	5674.6	5595.4	5537.7	5489.0
22.5°	6100.6	6042.7	5978.8	5911.9	5826.7	5744.6	5659.4	5571.1	5501.1	5422.0	5376.4
25°	6024.5	5954.5	5884.5	5805.4	5723.3	5632.0	5540.7	5449.4	5364.2	5321.6	5263.8
27.5°	5869.3	5793.2	5717.2	5635.0	5540.7	5449.4	5355.1	5266.8	5193.9	5136.0	5102.6
30°	5595.4	5507.2	5419.0	5330.8	5248.6	5154.3	5066.0	4993.0	4920.0	4874.3	4840.9
32.5°	5175.5	5096.5	5008.3	4923.0	4847.0	4767.9	4694.8	4631.0	4579.2	4548.8	4524.4
35°	4609.7	4530.5	4463.6	4402.8	4338.8	4305.4	4259.7	4223.2	4201.9	4189.8	4186.7
37.5°	3897.6	3852.0	3830.7	3818.6	3806.4	3797.3	3803.3	3818.6	3830.7	3852.0	3876.3
40°	3137.0	3176.5	3188.7	3231.3	3270.8	3322.6	3380.4	3447.4	3502.1	3572.1	3620.8
42.5°	2443.3	2516.3	2601.5	2692.7	2790.1	2884.5	3000.1	3106.5	3203.9	3292.1	3368.2
45°	1877.3	1989.9	2117.7	2248.5	2379.4	2516.3	2656.3	2787.1	2902.7	2997.0	3076.2
47.5°	1463.5	1588.3	1752.6	1913.9	2072.1	2233.3	2388.5	2525.4	2622.8	2714.0	2784.0
50°	1159.2	1302.3	1481.8	1667.4	1840.8	2011.2	2175.5	2303.3	2400.7	2473.7	2525.4
52.5°	897.6	1068.0	1250.5	1445.3	1630.9	1816.5	1968.6	2087.3	2166.4	2230.3	2269.8
55°	669.4	836.7	1031.5	1232.3	1420.9	1600.4	1743.4	1846.9	1916.9	1953.4	1974.7
57.5°	483.8	635.9	830.6	1031.5	1201.8	1372.2	1487.9	1582.2	1621.7	1643.0	1652.2
60°	353.0	492.9	666.3	839.8	1001.0	1138.0	1238.4	1302.3	1332.7	1344.8	1341.8
62.5°	258.6	380.4	529.4	675.5	806.3	918.9	998.0	1040.6	1055.8	1061.9	1052.8
65°	197.7	292.1	419.9	532.5	632.9	715.0	772.9	800.3	809.3	806.3	800.3
67.5°	146.1	219.1	313.4	398.6	471.6	535.5	566.0	590.3	596.3	587.3	578.1
70°	103.5	161.3	228.2	286.0	340.8	377.3	410.7	413.8	413.8	410.7	404.7
72.5°	73.0	112.6	155.2	194.8	228.2	255.6	267.7	276.9	273.8	270.8	264.7
75°	48.7	70.0	112.6	121.7	152.1	161.3	173.5	173.5	176.4	167.4	167.4
77.5°	30.4	48.7	66.9	79.1	91.3	103.5	109.5	109.5	112.6	109.5	109.5
80°	18.2	30.4	36.5	54.8	54.8	63.9	66.9	70.0	63.9	73.0	63.9
82.5°	12.1	18.2	27.4	27.4	33.5	39.5	39.5	42.6	42.6	39.5	39.5
85°	9.2	12.1	15.2	18.2	18.2	21.3	18.2	18.2	21.3	24.3	21.3
87.5°	3.1	6.1	3.1	6.1	6.1	12.1	9.2	9.2	9.2	12.1	12.1
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: P248394

CATALOG NUMBER: LSR8B120D010 EC8B120935 8LBDWOLI

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	5732.4	5732.4	5732.4	5732.4
2.5°	5738.5	5741.5	5738.5	5738.5
5°	5765.9	5762.8	5765.9	5759.7
7.5°	5787.1	5787.1	5784.1	5784.1
10°	5787.1	5775.0	5775.0	5775.0
12.5°	5741.5	5726.3	5717.2	5711.1
15°	5662.4	5635.0	5622.8	5619.8
17.5°	5559.0	5534.6	5519.4	5510.3
20°	5440.3	5415.9	5397.7	5400.8
22.5°	5336.8	5309.5	5297.3	5291.2
25°	5233.4	5199.9	5190.8	5184.7
27.5°	5066.0	5047.8	5038.6	5029.5
30°	4810.4	4801.3	4786.1	4807.4
32.5°	4515.3	4500.1	4487.9	4497.1
35°	4189.8	4180.6	4189.8	4183.7
37.5°	3891.6	3900.7	3912.9	3918.9
40°	3657.3	3690.7	3702.9	3709.0
42.5°	3423.0	3462.5	3486.9	3502.1
45°	3133.9	3173.5	3200.9	3219.2
47.5°	2835.8	2869.3	2896.6	2893.6
50°	2565.0	2583.2	2595.4	2607.6
52.5°	2291.1	2291.1	2294.1	2294.1
55°	1980.8	1974.7	1971.6	1974.7
57.5°	1640.0	1633.9	1630.9	1621.7
60°	1329.7	1311.4	1299.2	1299.2
62.5°	1040.6	1019.3	1010.2	1007.1
65°	781.9	778.9	760.6	757.6
67.5°	566.0	553.8	541.6	544.7
70°	398.6	380.4	380.4	374.3
72.5°	258.6	249.5	246.4	246.4
75°	161.3	161.3	155.2	167.4
77.5°	106.5	106.5	103.5	106.5
80°	63.9	63.9	63.9	60.8
82.5°	39.5	42.6	39.5	39.5
85°	21.3	24.3	18.2	27.4
87.5°	12.1	15.2	12.1	15.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)