

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: P248474

Luminaire Tested: **LSR8B100D010 EC8B100850 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248474
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: LSR8B100D010 EC8B100850 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11259.0 lumens
Efficiency: N/A
Efficacy: 105.9 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

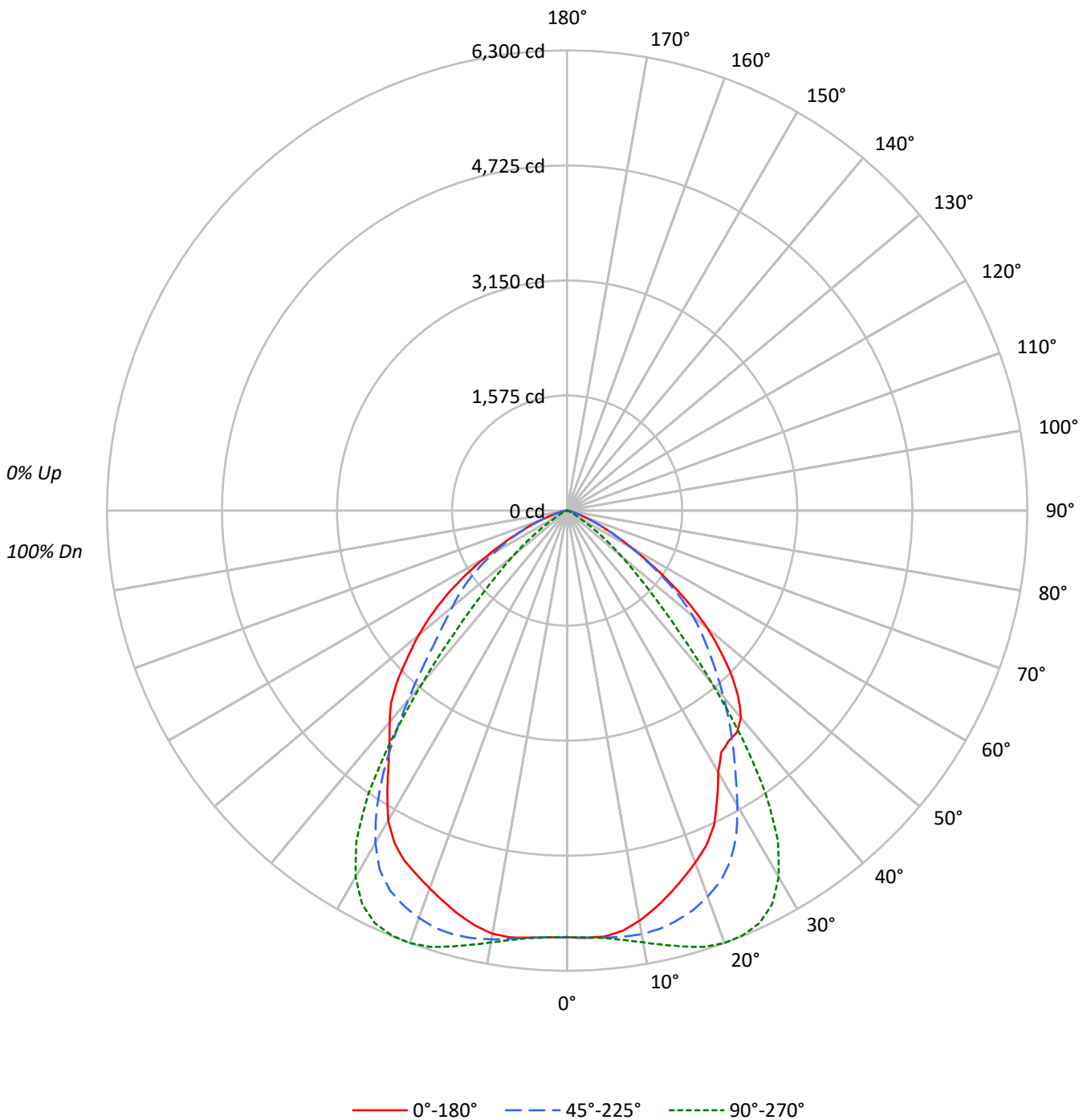
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	180109	180109	180109
5°	181181	181852	181660
10°	178519	187935	184246
15°	173300	197249	182801
20°	168270	206723	180579
25°	161808	212018	179743
30°	147259	206206	174412
35°	145062	178678	160470
40°	149008	123922	152124
45°	138712	74899	143042
50°	120321	46251	127459
55°	92335	24166	108168
60°	62906	9750	81642
65°	39131	4976	56322
70°	21242	3074	34378
75°	11080	1477	20314
80°	4954	1651	11010
85°	3290	1097	9871



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	561.7	5.0
10°-20°	1664.0	14.8
20°-30°	2538.5	22.5
30°-40°	2649.0	23.5
40°-50°	1989.8	17.7
50°-60°	1224.2	10.9
60°-70°	498.2	4.4
70°-80°	117.4	1.0
80°-90°	16.2	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°	4764.2	42.3
0°-40°	7413.2	65.8
0°-60°	10627.2	94.4
0°-90°	11259.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11259.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5841	5841	5841	5841	5841	
5°	5853	5869	5875	5869	5869	554
15°	5428	5810	6179	6008	5726	1529
25°	4756	5289	6231	5738	5283	2162
35°	3854	3962	4746	4387	4263	2433
45°	3181	2753	1718	2564	3280	2427
55°	1718	1631	450	1631	2012	1544
65°	536	542	68	728	772	559
75°	93	93	12	164	170	112
85°	9	9	3	22	28	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°	5840.8	5840.8	5840.8	5840.8	5840.8	5840.8	5840.8	5840.8	5840.8	5840.8	5840.8
2.5°	5856.3	5847.0	5856.3	5856.3	5859.4	5853.2	5856.3	5859.4	5853.2	5853.2	5853.2
5°	5853.2	5847.0	5853.2	5850.1	5856.3	5856.3	5862.5	5862.5	5868.7	5868.7	5878.0
7.5°	5803.6	5791.2	5803.6	5812.9	5819.1	5831.5	5847.0	5859.4	5871.8	5884.2	5899.7
10°	5701.3	5701.3	5710.6	5729.2	5747.8	5769.5	5797.4	5828.4	5859.4	5887.3	5915.2
12.5°	5574.2	5564.9	5583.5	5608.3	5636.2	5670.3	5713.7	5760.2	5809.8	5865.6	5909.0
15°	5428.5	5419.2	5440.9	5465.7	5499.8	5549.4	5602.1	5664.1	5735.4	5809.8	5881.1
17.5°	5279.7	5276.5	5298.2	5332.4	5360.3	5412.9	5481.2	5555.6	5636.2	5735.4	5828.4
20°	5127.8	5124.7	5146.4	5174.3	5211.5	5261.1	5329.3	5416.0	5512.2	5623.8	5732.3
22.5°	4969.6	4972.7	4991.3	5022.3	5053.4	5106.0	5177.3	5264.2	5369.5	5490.5	5611.4
25°	4755.7	4740.2	4765.0	4796.1	4848.7	4892.1	4960.4	5053.4	5161.9	5289.0	5431.6
27.5°	4445.7	4442.6	4464.3	4492.2	4538.7	4591.4	4665.8	4761.9	4876.6	5016.1	5155.6
30°	4135.7	4141.9	4151.2	4179.1	4210.1	4262.8	4337.2	4417.8	4526.3	4659.6	4808.4
32.5°	3924.8	3924.8	3937.3	3955.9	3977.6	4005.5	4058.2	4117.1	4200.8	4293.8	4402.3
35°	3853.5	3841.2	3853.5	3856.7	3859.8	3866.0	3875.2	3893.9	3921.7	3962.1	4002.4
37.5°	3822.6	3813.3	3813.3	3800.9	3785.3	3766.8	3742.0	3714.0	3683.1	3642.7	3611.8
40°	3701.7	3695.5	3689.2	3676.9	3642.7	3605.6	3565.2	3500.1	3428.8	3329.6	3230.5
42.5°	3469.2	3463.0	3459.8	3435.0	3404.0	3360.6	3314.1	3245.9	3156.0	3028.9	2886.3
45°	3180.8	3168.4	3159.1	3137.4	3115.7	3078.5	3035.1	2973.1	2883.2	2753.0	2582.5
47.5°	2846.0	2839.8	2836.7	2827.4	2805.7	2784.0	2756.1	2706.5	2625.9	2501.8	2325.2
50°	2508.1	2495.7	2501.8	2498.8	2489.5	2474.0	2455.3	2421.3	2359.2	2247.6	2086.4
52.5°	2120.5	2120.5	2117.5	2126.7	2129.8	2126.7	2129.8	2092.7	2039.9	1956.2	1819.8
55°	1717.5	1717.5	1726.8	1739.3	1751.6	1754.7	1751.6	1736.1	1698.9	1630.7	1509.8
57.5°	1339.3	1333.1	1351.7	1370.3	1382.7	1395.1	1385.8	1373.4	1351.7	1295.9	1202.9
60°	1020.0	1020.0	1032.3	1044.8	1057.1	1069.6	1066.5	1063.4	1044.8	1007.5	933.2
62.5°	750.2	753.3	753.3	762.7	775.0	787.5	796.7	787.5	778.1	753.3	703.7
65°	536.3	533.2	536.3	545.6	555.0	567.3	573.6	570.4	561.1	542.5	505.4
67.5°	359.6	356.5	368.9	372.0	378.2	390.7	387.6	390.7	387.6	372.0	341.1
70°	235.6	229.4	235.6	232.5	241.8	244.9	251.1	254.2	251.1	241.8	232.5
72.5°	145.7	142.6	145.7	148.8	151.9	155.0	161.2	161.2	158.1	151.9	139.5
75°	93.0	83.7	86.8	80.6	86.8	86.8	93.0	96.1	93.0	93.0	86.8
77.5°	55.8	55.8	55.8	55.8	55.8	55.8	55.8	58.9	62.0	55.8	52.7
80°	27.9	27.9	31.0	31.0	31.0	34.1	31.0	31.0	31.0	34.1	24.8
82.5°	21.7	18.6	18.6	18.6	21.7	18.6	18.6	18.6	18.6	18.6	18.6
85°	9.3	12.4	9.3	6.2	9.3	9.3	12.4	9.3	9.3	9.3	12.4
87.5°	3.1	3.1	0.0	0.0	0.0	3.1	0.0	3.1	3.1	6.2	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°	5840.8	5840.8	5840.8	5840.8	5840.8	5840.8	5840.8	5840.8	5840.8	5840.8	5840.8
2.5°	5856.3	5850.1	5850.1	5847.0	5853.2	5847.0	5850.1	5847.0	5847.0	5853.2	5847.0
5°	5878.0	5881.1	5874.9	5871.8	5881.1	5881.1	5881.1	5874.9	5874.9	5878.0	5874.9
7.5°	5909.0	5915.2	5918.3	5921.4	5927.6	5930.7	5930.7	5927.6	5924.5	5933.8	5921.4
10°	5943.1	5952.4	5971.0	5980.3	5995.8	5995.8	6002.0	6002.0	5995.8	6002.0	5998.9
12.5°	5930.7	5986.5	6017.5	6039.2	6060.9	6079.5	6085.7	6088.8	6085.7	6098.2	6085.7
15°	5952.4	5998.9	6048.5	6085.7	6126.0	6147.7	6153.9	6178.7	6184.9	6188.0	6169.5
17.5°	5918.3	6002.0	6054.7	6110.5	6169.5	6209.7	6246.9	6262.5	6265.6	6271.7	6246.9
20°	5840.8	5933.8	6014.4	6095.0	6163.2	6225.2	6256.2	6299.6	6287.3	6312.1	6277.9
22.5°	5735.4	5840.8	5943.1	6048.5	6119.8	6194.3	6259.3	6290.3	6305.9	6305.9	6268.6
25°	5568.0	5692.0	5803.6	5912.1	6020.6	6110.5	6184.9	6231.4	6240.8	6237.7	6194.3
27.5°	5307.6	5440.9	5571.1	5695.1	5828.4	5933.8	6020.6	6076.4	6091.9	6091.9	6045.4
30°	4947.9	5090.5	5217.7	5366.4	5502.9	5620.7	5741.6	5791.2	5819.1	5819.1	5766.4
32.5°	4520.1	4641.0	4758.8	4904.5	5053.4	5186.7	5301.4	5369.5	5403.7	5400.6	5354.1
35°	4055.1	4114.0	4203.9	4312.4	4445.7	4569.7	4681.3	4746.5	4805.3	4802.2	4758.8
37.5°	3590.0	3574.5	3583.9	3624.2	3707.8	3794.7	3881.5	3943.5	3993.0	4014.8	4005.5
40°	3134.3	3053.7	2976.2	2948.3	2954.5	2985.5	3032.0	3078.5	3134.3	3162.3	3174.6
42.5°	2725.1	2588.7	2452.2	2350.0	2291.0	2272.5	2294.1	2309.6	2343.8	2384.0	2424.4
45°	2396.5	2213.6	2033.7	1875.6	1776.4	1717.5	1705.1	1717.5	1736.1	1776.4	1829.1
47.5°	2126.7	1912.8	1711.3	1534.6	1388.9	1311.4	1289.7	1283.5	1302.1	1339.3	1410.6
50°	1888.0	1674.1	1450.9	1246.3	1094.4	1007.5	976.6	964.1	985.8	1013.8	1078.8
52.5°	1627.6	1416.8	1187.4	989.0	830.9	741.0	706.8	688.3	700.6	737.9	802.9
55°	1345.5	1150.1	942.4	737.9	585.9	502.2	461.9	449.5	461.9	502.2	567.3
57.5°	1063.4	899.1	725.4	533.2	396.8	313.1	272.8	260.4	294.6	310.0	378.2
60°	830.9	697.6	548.7	390.7	272.8	207.7	167.4	158.1	173.6	201.5	257.3
62.5°	623.2	539.4	421.6	279.0	201.5	133.3	111.6	102.3	111.6	133.3	176.7
65°	452.6	387.6	294.6	204.6	136.4	99.2	74.4	68.2	77.5	93.0	130.2
67.5°	310.0	260.4	204.6	142.6	93.0	62.0	52.7	52.7	55.8	68.2	96.1
70°	201.5	170.5	130.2	93.0	62.0	46.5	40.3	34.1	40.3	49.6	65.1
72.5°	127.1	108.5	83.7	65.1	46.5	34.1	27.9	24.8	31.0	37.2	49.6
75°	77.5	58.9	43.4	34.1	24.8	24.8	24.8	12.4	15.5	24.8	31.0
77.5°	46.5	40.3	34.1	27.9	21.7	12.4	12.4	12.4	15.5	18.6	27.9
80°	24.8	21.7	15.5	15.5	12.4	9.3	12.4	9.3	6.2	15.5	18.6
82.5°	15.5	12.4	12.4	12.4	15.5	6.2	9.3	6.2	9.3	12.4	9.3
85°	9.3	9.3	9.3	6.2	15.5	6.2	6.2	3.1	3.1	6.2	6.2
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°	5840.8	5840.8	5840.8	5840.8	5840.8	5840.8	5840.8	5840.8	5840.8	5840.8	5840.8
2.5°	5850.1	5847.0	5850.1	5847.0	5847.0	5847.0	5850.1	5850.1	5847.0	5847.0	5853.2
5°	5874.9	5874.9	5874.9	5871.8	5868.7	5868.7	5874.9	5874.9	5865.6	5874.9	5874.9
7.5°	5927.6	5918.3	5927.6	5915.2	5909.0	5912.1	5915.2	5909.0	5902.8	5905.9	5905.9
10°	5995.8	5986.5	5986.5	5977.2	5967.9	5961.7	5955.5	5940.0	5924.5	5921.4	5909.0
12.5°	6076.4	6060.9	6051.7	6033.0	6017.5	5995.8	5977.2	5952.4	5921.4	5899.7	5878.0
15°	6157.0	6132.2	6110.5	6079.5	6045.4	6008.2	5967.9	5927.6	5878.0	5834.6	5797.4
17.5°	6222.1	6188.0	6147.7	6098.2	6048.5	5992.7	5933.8	5874.9	5803.6	5747.8	5704.4
20°	6243.8	6194.3	6141.5	6076.4	6011.3	5933.8	5859.4	5781.9	5701.3	5642.4	5592.8
22.5°	6216.0	6157.0	6091.9	6023.7	5936.9	5853.2	5766.4	5676.5	5605.2	5524.6	5478.1
25°	6138.4	6067.1	5995.8	5915.2	5831.5	5738.5	5645.5	5552.5	5465.7	5422.3	5363.4
27.5°	5980.3	5902.8	5825.3	5741.6	5645.5	5552.5	5456.4	5366.4	5292.1	5233.2	5199.1
30°	5701.3	5611.4	5521.5	5431.6	5347.9	5251.7	5161.9	5087.4	5013.0	4966.5	4932.5
32.5°	5273.4	5192.9	5103.0	5016.1	4938.7	4858.0	4783.6	4718.5	4665.8	4634.8	4610.0
35°	4696.8	4616.2	4548.0	4486.0	4420.9	4386.8	4340.3	4303.1	4281.4	4269.0	4265.9
37.5°	3971.3	3924.8	3903.2	3890.8	3878.3	3869.1	3875.2	3890.8	3903.2	3924.8	3949.7
40°	3196.3	3236.6	3249.0	3292.4	3332.7	3385.4	3444.4	3512.6	3568.3	3639.6	3689.2
42.5°	2489.5	2563.9	2650.7	2743.7	2842.9	2939.0	3056.8	3165.3	3264.5	3354.4	3431.9
45°	1912.8	2027.5	2157.8	2291.0	2424.4	2563.9	2706.5	2839.8	2957.6	3053.7	3134.3
47.5°	1491.2	1618.3	1785.8	1950.1	2111.3	2275.6	2433.6	2573.2	2672.4	2765.4	2836.7
50°	1181.2	1326.9	1509.8	1698.9	1875.6	2049.2	2216.6	2346.9	2446.1	2520.5	2573.2
52.5°	914.5	1088.2	1274.2	1472.6	1661.7	1850.8	2005.8	2126.7	2207.4	2272.5	2312.7
55°	682.0	852.6	1051.0	1255.6	1447.8	1630.7	1776.4	1881.9	1953.2	1990.3	2012.0
57.5°	492.9	648.0	846.3	1051.0	1224.6	1398.2	1516.0	1612.1	1652.4	1674.1	1683.4
60°	359.6	502.2	678.9	855.7	1020.0	1159.5	1261.8	1326.9	1357.9	1370.3	1367.2
62.5°	263.5	387.6	539.4	688.3	821.5	936.2	1016.9	1060.3	1075.8	1082.0	1072.7
65°	201.5	297.6	427.8	542.5	644.9	728.5	787.5	815.4	824.6	821.5	815.4
67.5°	148.8	223.2	319.4	406.1	480.6	545.6	576.7	601.5	607.6	598.4	589.0
70°	105.4	164.3	232.5	291.4	347.2	384.4	418.5	421.6	421.6	418.5	412.4
72.5°	74.4	114.7	158.1	198.4	232.5	260.4	272.8	282.1	279.0	275.9	269.7
75°	49.6	71.3	114.7	124.0	155.0	164.3	176.7	176.7	179.8	170.5	170.5
77.5°	31.0	49.6	68.2	80.6	93.0	105.4	111.6	111.6	114.7	111.6	111.6
80°	18.6	31.0	37.2	55.8	55.8	65.1	68.2	71.3	65.1	74.4	65.1
82.5°	12.4	18.6	27.9	27.9	34.1	40.3	40.3	43.4	43.4	40.3	40.3
85°	9.3	12.4	15.5	18.6	18.6	21.7	18.6	18.6	21.7	24.8	21.7
87.5°	3.1	6.2	3.1	6.2	6.2	12.4	9.3	9.3	9.3	12.4	12.4
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: P248474

CATALOG NUMBER: LSR8B100D010 EC8B100850 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	5840.8	5840.8	5840.8	5840.8
2.5°	5847.0	5850.1	5847.0	5847.0
5°	5874.9	5871.8	5874.9	5868.7
7.5°	5896.6	5896.6	5893.5	5893.5
10°	5896.6	5884.2	5884.2	5884.2
12.5°	5850.1	5834.6	5825.3	5819.1
15°	5769.5	5741.6	5729.2	5726.1
17.5°	5664.1	5639.3	5623.8	5614.5
20°	5543.2	5518.4	5499.8	5502.9
22.5°	5437.7	5409.9	5397.5	5391.2
25°	5332.4	5298.2	5289.0	5282.8
27.5°	5161.9	5143.3	5133.9	5124.7
30°	4901.4	4892.1	4876.6	4898.3
32.5°	4600.7	4585.2	4572.8	4582.1
35°	4269.0	4259.7	4269.0	4262.8
37.5°	3965.2	3974.5	3986.9	3993.0
40°	3726.5	3760.5	3773.0	3779.1
42.5°	3487.8	3528.0	3552.8	3568.3
45°	3193.2	3233.5	3261.4	3280.1
47.5°	2889.4	2923.5	2951.4	2948.3
50°	2613.5	2632.1	2644.5	2656.9
52.5°	2334.4	2334.4	2337.5	2337.5
55°	2018.3	2012.0	2008.9	2012.0
57.5°	1671.0	1664.8	1661.7	1652.4
60°	1354.8	1336.2	1323.8	1323.8
62.5°	1060.3	1038.6	1029.3	1026.2
65°	796.7	793.6	775.0	771.9
67.5°	576.7	564.2	551.9	555.0
70°	406.1	387.6	387.6	381.3
72.5°	263.5	254.2	251.1	251.1
75°	164.3	164.3	158.1	170.5
77.5°	108.5	108.5	105.4	108.5
80°	65.1	65.1	65.1	62.0
82.5°	40.3	43.4	40.3	40.3
85°	21.7	24.8	18.6	27.9
87.5°	12.4	15.5	12.4	15.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)