

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: P250218

Luminaire Tested: **LSR8B80D010 EC8B80835 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250218
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: LSR8B80D010 EC8B80835 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8532.0 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

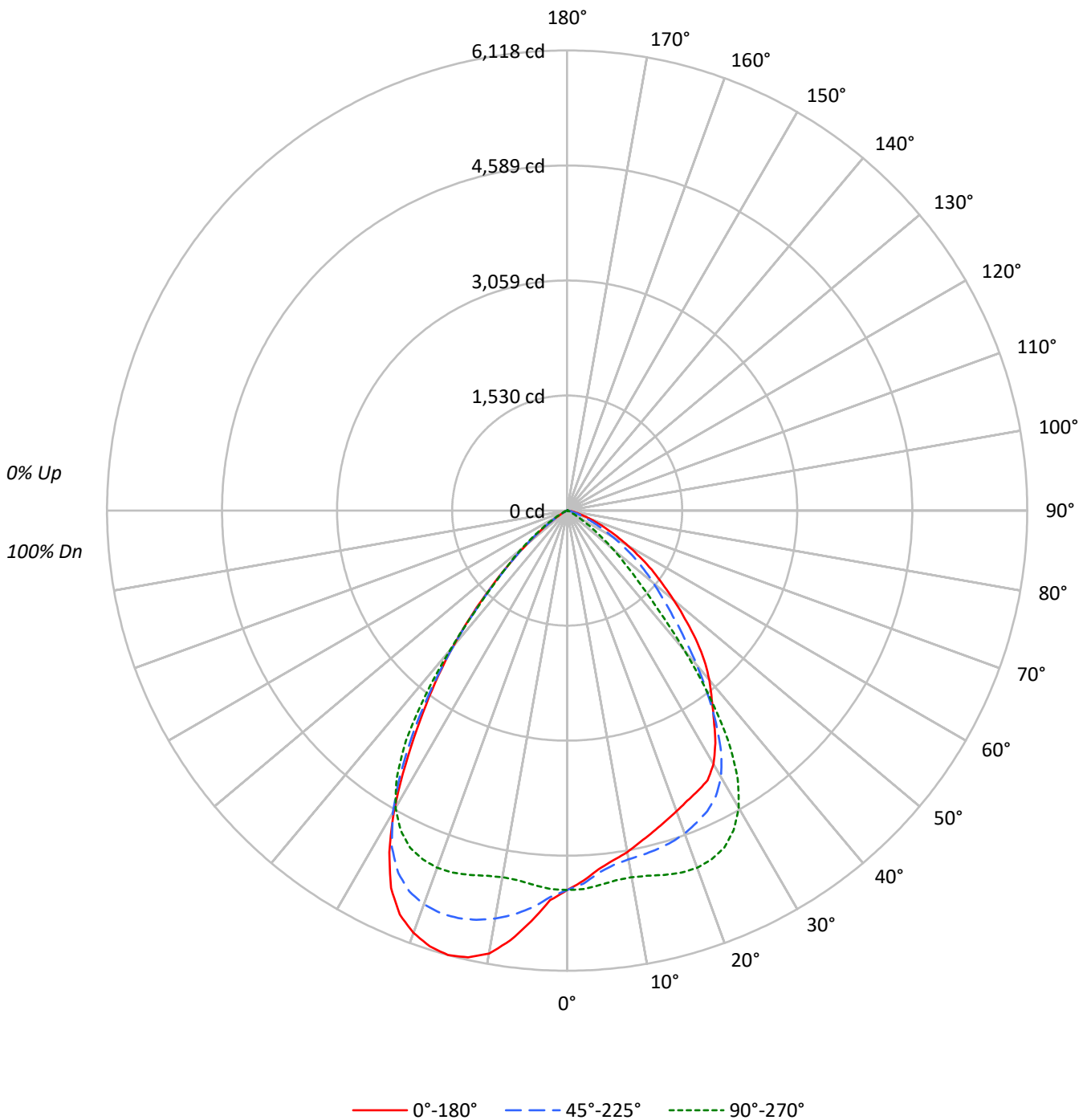
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	106	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82					82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73					73			
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66					66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60					60			
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54					54			
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49					49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45					45			
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42					42			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38					38			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	155569	155569	155569
5°	148208	154702	169591
10°	144386	154941	187202
15°	141114	160077	195299
20°	139560	165862	196032
25°	139887	168205	188415
30°	138588	162431	163855
35°	128062	140571	128235
40°	118339	97459	95088
45°	105377	58807	60756
50°	88663	37889	34382
55°	73766	20784	15720
60°	57578	9010	4946
65°	42487	4473	2408
70°	29545	2768	1055
75°	17979	572	0
80°	12981	852	0
85°	8350	814	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	485.0	5.7
10°-20°	1451.5	17.0
20°-30°	2222.9	26.1
30°-40°	2179.2	25.5
40°-50°	1312.3	15.4
50°-60°	604.0	7.1
60°-70°	212.2	2.5
70°-80°	55.5	0.7
80°-90°	9.5	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°	4159.4	48.8
0°-40°	6338.6	74.3
0°-60°	8254.9	96.8
0°-90°	8532.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8532.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5045	5045	5045	5045	5045	
5°	4788	4833	4998	5297	5479	452
15°	4420	4658	5014	5608	6118	1249
25°	4111	4408	4944	5316	5538	1894
35°	3402	3449	3734	3520	3406	2131
45°	2416	1990	1348	1358	1393	1853
55°	1372	1087	387	304	292	1224
65°	582	403	61	31	33	593
75°	151	87	5	0	0	183
85°	24	12	2	0	0	32
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°	5045.0	5045.0	5045.0	5045.0	5045.0	5045.0	5045.0	5045.0	5045.0	5045.0	5045.0
2.5°	4927.1	4931.8	4931.8	4931.8	4941.3	4943.7	4941.3	4943.7	4948.3	4964.8	4971.9
5°	4788.0	4781.0	4785.7	4783.3	4795.1	4802.2	4797.5	4804.5	4821.0	4832.9	4844.6
7.5°	4689.1	4689.1	4689.1	4693.7	4700.8	4715.0	4712.6	4717.3	4733.8	4750.3	4766.8
10°	4611.2	4608.9	4608.9	4620.7	4630.1	4646.6	4651.3	4665.5	4686.6	4707.9	4726.7
12.5°	4509.8	4512.3	4524.0	4535.8	4557.0	4582.9	4597.1	4616.0	4649.0	4684.3	4705.6
15°	4420.3	4422.6	4432.1	4455.6	4481.6	4512.3	4542.8	4573.5	4613.6	4658.4	4696.1
17.5°	4333.0	4335.4	4342.5	4368.5	4401.4	4441.5	4476.8	4516.9	4568.8	4620.7	4667.8
20°	4252.9	4250.6	4262.3	4285.9	4328.4	4366.0	4401.4	4448.6	4505.2	4568.8	4623.0
22.5°	4175.1	4175.1	4186.9	4210.5	4248.2	4285.9	4323.6	4373.1	4429.7	4491.0	4554.7
25°	4111.4	4109.1	4125.6	4137.4	4165.7	4203.4	4243.5	4283.5	4340.1	4408.5	4469.8
27.5°	4043.1	4040.8	4043.1	4057.3	4083.2	4111.4	4142.1	4177.5	4224.6	4281.2	4340.1
30°	3892.2	3894.5	3894.5	3906.4	3920.5	3951.1	3967.6	4003.0	4045.4	4092.6	4144.5
32.5°	3668.2	3670.6	3670.6	3675.3	3687.1	3701.2	3715.4	3741.3	3774.3	3814.4	3861.5
35°	3401.9	3401.9	3399.5	3401.9	3409.0	3409.0	3420.7	3409.0	3425.5	3449.0	3484.4
37.5°	3156.7	3151.9	3147.3	3142.5	3135.4	3123.7	3107.2	3078.8	3071.8	3062.4	3064.7
40°	2939.8	2937.5	2923.3	2911.5	2887.9	2859.6	2819.6	2770.1	2730.0	2682.8	2642.8
42.5°	2699.3	2696.9	2685.2	2663.9	2638.0	2595.6	2532.0	2466.0	2385.8	2315.1	2242.0
45°	2416.4	2423.5	2407.0	2383.4	2352.7	2312.7	2242.0	2161.8	2081.6	1989.7	1897.7
47.5°	2121.7	2119.4	2107.6	2093.5	2067.5	2027.5	1980.3	1893.1	1808.2	1723.4	1629.0
50°	1848.2	1838.8	1834.1	1820.0	1803.5	1770.5	1720.9	1650.2	1574.8	1494.6	1407.4
52.5°	1589.0	1589.0	1577.1	1567.7	1553.5	1527.6	1485.2	1428.7	1365.0	1289.5	1197.6
55°	1372.1	1367.3	1355.6	1343.8	1329.6	1313.1	1275.4	1228.3	1159.9	1086.8	1006.6
57.5°	1141.0	1138.6	1134.0	1119.8	1112.7	1096.2	1053.8	1006.6	947.7	884.1	818.0
60°	933.6	924.2	914.7	905.2	893.5	877.0	848.7	808.6	759.1	702.5	636.6
62.5°	747.4	761.4	733.2	733.2	709.6	695.5	669.5	646.0	594.1	542.2	485.7
65°	582.3	582.3	570.5	561.1	546.9	530.4	504.5	480.9	443.2	403.1	363.0
67.5°	445.6	443.2	431.4	422.0	410.2	400.8	381.9	353.6	325.4	292.4	259.3
70°	327.7	325.4	322.9	306.4	297.0	285.3	271.1	252.3	231.0	207.5	176.8
72.5°	235.7	235.7	228.7	221.6	212.2	202.7	188.6	176.8	158.0	141.5	120.2
75°	150.9	148.6	148.6	136.7	136.7	122.6	113.1	106.1	96.6	87.2	68.4
77.5°	108.5	106.1	103.7	99.0	94.3	89.6	82.5	73.1	66.0	56.6	49.5
80°	73.1	68.4	66.0	66.0	58.9	56.6	58.9	44.8	42.4	35.3	30.7
82.5°	44.8	44.8	42.4	42.4	40.1	37.7	30.7	30.7	28.3	25.9	21.3
85°	23.6	30.7	21.3	23.6	21.3	23.6	21.3	16.5	14.2	11.7	11.7
87.5°	14.2	9.4	9.4	14.2	11.7	9.4	9.4	9.4	7.1	4.8	4.8
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°	5045.0	5045.0	5045.0	5045.0	5045.0	5045.0	5045.0	5045.0	5045.0	5045.0	5045.0
2.5°	4967.3	4983.8	4981.3	5002.6	5009.7	5026.2	5026.2	5037.9	5045.0	5061.5	5075.7
5°	4849.4	4875.3	4882.4	4908.3	4929.5	4955.4	4971.9	4997.8	5021.4	5056.8	5089.8
7.5°	4776.3	4797.5	4811.6	4842.3	4865.9	4894.1	4922.4	4957.8	4990.7	5033.2	5080.4
10°	4740.9	4769.2	4790.4	4821.0	4849.4	4880.0	4908.3	4948.3	4986.1	5040.3	5092.1
12.5°	4731.5	4764.5	4790.4	4832.9	4861.1	4894.1	4927.1	4971.9	5012.0	5068.6	5127.6
15°	4731.5	4776.3	4811.6	4858.8	4891.8	4934.2	4969.6	5014.3	5059.2	5118.1	5174.6
17.5°	4722.1	4776.3	4821.0	4875.3	4917.7	4960.2	5004.9	5047.4	5094.5	5151.1	5214.7
20°	4684.3	4752.7	4806.9	4870.5	4915.3	4962.5	5007.3	5054.4	5104.0	5162.9	5217.1
22.5°	4618.3	4698.5	4759.8	4828.1	4880.0	4927.1	4971.9	5019.1	5073.3	5129.9	5186.5
25°	4531.1	4606.5	4672.6	4743.2	4795.1	4846.9	4889.4	4943.7	4993.2	5047.4	5092.1
27.5°	4399.0	4479.2	4542.8	4616.0	4663.1	4712.6	4748.0	4792.8	4840.0	4884.7	4920.1
30°	4201.1	4274.1	4340.1	4406.1	4453.3	4488.7	4526.3	4561.8	4592.4	4623.0	4653.6
32.5°	3911.0	3977.1	4040.8	4102.0	4139.7	4170.4	4198.6	4219.9	4236.4	4252.9	4255.2
35°	3512.7	3566.8	3606.9	3661.2	3696.6	3724.8	3724.8	3734.2	3731.9	3724.8	3717.7
37.5°	3067.1	3088.3	3104.8	3126.0	3128.3	3128.3	3114.3	3102.4	3083.6	3078.8	3064.7
40°	2602.7	2574.4	2553.1	2524.9	2508.4	2473.0	2442.4	2421.1	2390.5	2385.8	2381.1
42.5°	2161.8	2095.8	2036.9	1987.4	1930.8	1881.2	1836.5	1803.5	1779.9	1777.5	1779.9
45°	1803.5	1728.0	1640.8	1572.5	1508.8	1447.5	1388.6	1348.5	1327.3	1322.5	1327.3
47.5°	1532.4	1445.2	1360.2	1282.4	1214.1	1145.7	1086.8	1032.6	1006.6	999.6	997.2
50°	1317.8	1228.3	1138.6	1058.5	983.1	914.7	841.6	789.8	756.8	744.9	735.5
52.5°	1108.1	1027.9	935.9	853.4	777.9	697.8	622.4	563.4	530.4	516.3	506.8
55°	924.2	844.0	759.1	679.0	598.8	518.7	443.2	386.6	351.3	334.8	322.9
57.5°	737.9	662.5	589.4	509.2	443.2	365.4	289.9	240.5	209.8	191.0	181.6
60°	570.5	511.6	447.9	381.9	318.3	254.6	193.3	146.1	122.6	108.5	96.6
62.5°	431.4	381.9	339.4	282.9	233.4	179.1	132.1	94.3	73.1	61.3	56.6
65°	311.2	273.4	235.7	200.4	165.1	125.0	89.6	61.3	42.4	35.3	33.0
67.5°	221.6	191.0	162.6	139.1	113.1	89.6	63.7	42.4	33.0	28.3	25.9
70°	155.5	132.1	113.1	92.0	75.4	58.9	49.5	30.7	18.8	21.3	16.5
72.5°	103.7	87.2	77.8	63.7	51.8	42.4	30.7	21.3	21.3	16.5	14.2
75°	56.6	51.8	40.1	30.7	25.9	23.6	9.4	4.8	2.3	7.1	2.3
77.5°	40.1	35.3	30.7	25.9	21.3	16.5	9.4	9.4	7.1	9.4	4.8
80°	25.9	21.3	18.8	18.8	11.7	7.1	4.8	4.8	7.1	2.3	2.3
82.5°	16.5	14.2	11.7	11.7	11.7	7.1	7.1	7.1	7.1	4.8	4.8
85°	9.4	7.1	4.8	4.8	2.3	4.8	0.0	2.3	2.3	0.0	0.0
87.5°	4.8	2.3	2.3	2.3	2.3	0.0	0.0	2.3	0.0	2.3	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°	5045.0	5045.0	5045.0	5045.0	5045.0	5045.0	5045.0	5045.0	5045.0	5045.0	5045.0
2.5°	5085.1	5094.5	5106.3	5115.7	5137.0	5141.6	5151.1	5160.6	5167.6	5174.6	5177.1
5°	5118.1	5153.5	5186.5	5221.8	5266.6	5297.3	5332.6	5363.3	5393.9	5419.8	5438.7
7.5°	5127.6	5181.7	5231.3	5292.5	5358.5	5415.2	5474.1	5533.0	5594.3	5641.5	5681.5
10°	5146.4	5212.4	5276.0	5349.1	5434.0	5509.4	5582.5	5660.3	5738.1	5804.1	5863.1
12.5°	5179.4	5252.5	5320.9	5401.0	5488.2	5573.1	5653.2	5740.4	5823.0	5896.1	5962.1
15°	5233.6	5301.9	5368.0	5443.4	5530.7	5608.5	5688.6	5773.4	5856.0	5931.4	5992.7
17.5°	5268.9	5332.6	5398.6	5467.0	5540.1	5610.8	5686.2	5761.7	5837.1	5905.5	5962.1
20°	5268.9	5330.3	5379.8	5441.1	5509.4	5570.7	5632.1	5698.0	5764.0	5820.6	5874.8
22.5°	5226.5	5285.4	5323.2	5370.4	5429.3	5481.2	5514.2	5587.2	5636.7	5686.2	5726.3
25°	5127.6	5170.0	5200.6	5233.6	5280.8	5316.1	5344.4	5386.8	5436.3	5455.3	5483.5
27.5°	4948.3	4979.0	4995.5	5002.6	5026.2	5045.0	5049.7	5068.6	5089.8	5094.5	5106.3
30°	4665.5	4667.8	4660.7	4658.4	4646.6	4632.5	4630.1	4627.7	4618.3	4608.9	4611.2
32.5°	4238.7	4227.0	4198.6	4168.1	4137.4	4104.4	4085.5	4061.9	4047.8	4033.7	4017.2
35°	3687.1	3658.8	3618.8	3581.0	3545.7	3519.7	3477.3	3463.1	3449.0	3430.1	3425.5
37.5°	3038.8	3022.3	2984.5	2956.3	2937.5	2925.6	2904.4	2890.3	2890.3	2883.2	2878.5
40°	2369.2	2364.6	2350.4	2357.5	2348.1	2352.7	2350.4	2345.6	2357.5	2357.5	2362.2
42.5°	1777.5	1779.9	1787.0	1791.7	1805.8	1808.2	1820.0	1820.0	1827.1	1834.1	1838.8
45°	1322.5	1332.0	1332.0	1341.4	1355.6	1357.9	1362.6	1365.0	1369.7	1381.5	1386.2
47.5°	992.5	994.8	994.8	997.2	1001.9	1006.6	1004.3	1006.6	1013.7	1009.0	1013.7
50°	733.2	735.5	728.4	721.4	728.4	728.4	726.1	719.0	726.1	716.7	721.4
52.5°	499.8	497.4	490.3	492.7	488.0	485.7	485.7	480.9	480.9	480.9	471.5
55°	315.9	315.9	311.2	311.2	308.9	304.1	301.8	299.4	297.0	294.7	294.7
57.5°	176.8	179.1	172.1	169.7	172.1	169.7	165.1	165.1	165.1	158.0	162.6
60°	96.6	94.3	92.0	89.6	87.2	89.6	89.6	84.9	84.9	84.9	87.2
62.5°	51.8	51.8	49.5	49.5	47.2	47.2	51.8	44.8	47.2	44.8	47.2
65°	28.3	35.3	25.9	25.9	33.0	30.7	28.3	28.3	30.7	25.9	28.3
67.5°	30.7	21.3	18.8	21.3	18.8	18.8	18.8	23.6	21.3	16.5	21.3
70°	14.2	16.5	16.5	11.7	18.8	9.4	16.5	9.4	14.2	11.7	14.2
72.5°	14.2	14.2	14.2	9.4	14.2	9.4	11.7	11.7	9.4	9.4	14.2
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°	4.8	4.8	2.3	2.3	2.3	2.3	4.8	4.8	4.8	0.0	2.3
80°	4.8	4.8	0.0	2.3	0.0	0.0	2.3	0.0	2.3	0.0	4.8
82.5°	2.3	4.8	2.3	2.3	4.8	4.8	4.8	2.3	2.3	2.3	2.3
85°	0.0	2.3	0.0	0.0	0.0	0.0	4.8	0.0	0.0	0.0	2.3
87.5°	0.0	2.3	0.0	0.0	0.0	0.0	2.3	2.3	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: P250218

CATALOG NUMBER: LSR8B80D010 EC8B80835 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	5045.0	5045.0	5045.0	5045.0
2.5°	5179.4	5181.7	5186.5	5184.1
5°	5452.8	5471.8	5481.2	5478.8
7.5°	5709.8	5742.9	5761.7	5761.7
10°	5907.8	5945.6	5973.8	5978.6
12.5°	6013.9	6056.4	6094.1	6084.6
15°	6044.6	6087.1	6124.7	6117.6
17.5°	6009.2	6051.6	6080.0	6075.2
20°	5912.6	5947.9	5976.2	5973.8
22.5°	5761.7	5792.4	5815.9	5813.5
25°	5507.1	5528.3	5547.2	5537.7
27.5°	5115.7	5122.8	5134.6	5120.5
30°	4594.7	4599.4	4604.2	4601.8
32.5°	4010.1	4007.7	4003.0	3998.3
35°	3418.4	3418.4	3420.7	3406.5
37.5°	2880.8	2878.5	2885.6	2878.5
40°	2366.9	2364.6	2374.0	2362.2
42.5°	1845.9	1853.0	1855.3	1855.3
45°	1388.6	1390.9	1393.2	1393.2
47.5°	1013.7	1016.1	1027.9	1013.7
50°	716.7	719.0	721.4	716.7
52.5°	473.8	476.3	473.8	466.7
55°	289.9	292.4	292.4	292.4
57.5°	155.5	158.0	158.0	155.5
60°	84.9	82.5	84.9	80.2
62.5°	44.8	49.5	47.2	42.4
65°	28.3	28.3	28.3	33.0
67.5°	23.6	18.8	21.3	16.5
70°	14.2	16.5	16.5	11.7
72.5°	11.7	11.7	11.7	14.2
75°	0.0	0.0	0.0	0.0
77.5°	4.8	4.8	4.8	2.3
80°	2.3	0.0	2.3	0.0
82.5°	2.3	2.3	4.8	2.3
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)