

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: P250253

Luminaire Tested: **LSR8B80D010 EC8B80935 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250253
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 EC8B80935 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7276.0 lumens
Efficiency: N/A
Efficacy: 97.8 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

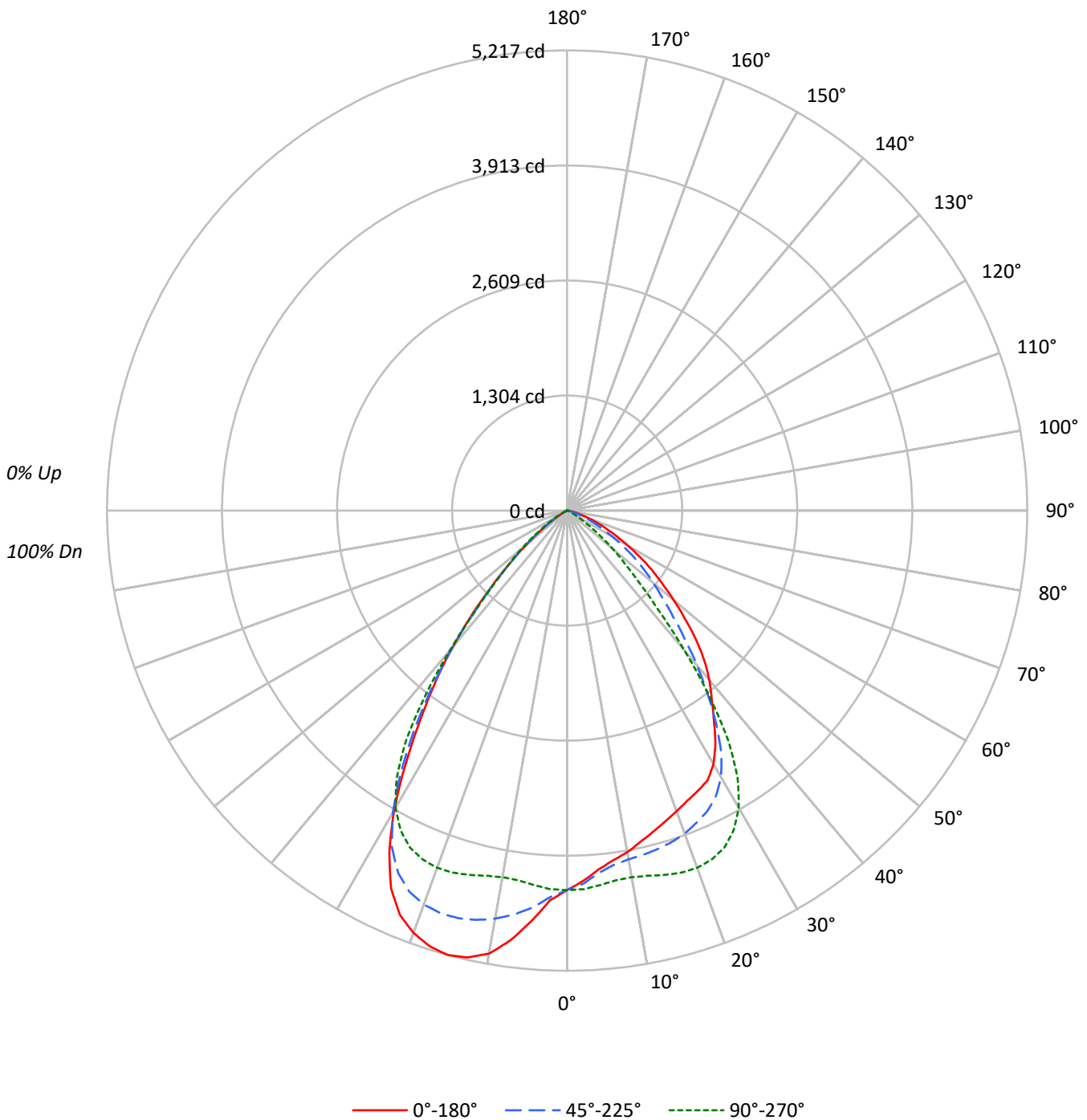
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	132667	132667	132667
5°	126392	131929	144627
10°	123131	132134	159644
15°	120341	136514	166548
20°	119015	141444	167174
25°	119295	143442	160679
30°	118186	138517	139735
35°	109210	119878	109360
40°	100917	83112	81092
45°	89865	50151	51812
50°	75615	32310	29321
55°	62906	17725	13403
60°	49098	7684	4218
65°	36234	3816	2050
70°	25200	2353	902
75°	15334	488	0
80°	11063	728	0
85°	7112	708	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.6	5.7
10°-20°	1237.9	17.0
20°-30°	1895.6	26.1
30°-40°	1858.4	25.5
40°-50°	1119.1	15.4
50°-60°	515.1	7.1
60°-70°	181.0	2.5
70°-80°	47.3	0.7
80°-90°	8.1	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°	3547.1	48.8
0°-40°	5405.5	74.3
0°-60°	7039.7	96.8
0°-90°	7276.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7276.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4302	4302	4302	4302	4302	
5°	4083	4121	4262	4518	4672	386
15°	3770	3973	4276	4783	5217	1065
25°	3506	3760	4216	4534	4722	1615
35°	2901	2941	3184	3002	2905	1817
45°	2061	1697	1150	1158	1188	1580
55°	1170	927	330	259	249	1044
65°	497	344	52	26	28	506
75°	129	74	4	0	0	156
85°	20	10	2	0	0	28
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°	4302.3	4302.3	4302.3	4302.3	4302.3	4302.3	4302.3	4302.3	4302.3	4302.3	4302.3
2.5°	4201.8	4205.8	4205.8	4205.8	4213.9	4215.9	4213.9	4215.9	4219.9	4234.0	4240.0
5°	4083.2	4077.1	4081.2	4079.1	4089.2	4095.3	4091.2	4097.3	4111.3	4121.4	4131.4
7.5°	3998.8	3998.8	3998.8	4002.8	4008.8	4020.9	4018.9	4022.9	4036.9	4051.0	4065.1
10°	3932.4	3930.4	3930.4	3940.4	3948.5	3962.5	3966.6	3978.7	3996.7	4014.8	4030.9
12.5°	3845.9	3848.0	3858.0	3868.1	3886.2	3908.3	3920.3	3936.5	3964.6	3994.7	4012.9
15°	3769.6	3771.5	3779.7	3799.7	3821.9	3848.0	3874.1	3900.2	3934.4	3972.6	4004.8
17.5°	3695.2	3697.2	3703.2	3725.4	3753.5	3787.7	3817.8	3852.0	3896.3	3940.4	3980.7
20°	3626.8	3624.8	3634.8	3655.0	3691.2	3723.3	3753.5	3793.7	3842.0	3896.3	3942.4
22.5°	3560.5	3560.5	3570.5	3590.7	3622.8	3655.0	3687.1	3729.3	3777.6	3829.9	3884.2
25°	3506.2	3504.2	3518.2	3528.3	3552.4	3584.6	3618.8	3653.0	3701.2	3759.5	3811.8
27.5°	3447.9	3445.9	3447.9	3460.0	3482.1	3506.2	3532.3	3562.5	3602.7	3651.0	3701.2
30°	3319.2	3321.2	3321.2	3331.3	3343.4	3369.5	3383.5	3413.7	3449.9	3490.1	3534.4
32.5°	3128.2	3130.2	3130.2	3134.3	3144.3	3156.4	3168.5	3190.6	3218.7	3252.9	3293.1
35°	2901.1	2901.1	2899.0	2901.1	2907.1	2907.1	2917.1	2907.1	2921.2	2941.3	2971.4
37.5°	2692.0	2687.9	2684.0	2679.9	2673.9	2663.8	2649.8	2625.6	2619.6	2611.5	2613.5
40°	2507.0	2505.0	2493.0	2482.9	2462.8	2438.7	2404.5	2362.3	2328.1	2287.9	2253.7
42.5°	2302.0	2299.9	2289.9	2271.8	2249.7	2213.5	2159.2	2103.0	2034.6	1974.3	1912.0
45°	2060.7	2066.7	2052.6	2032.5	2006.4	1972.2	1912.0	1843.5	1775.2	1696.8	1618.4
47.5°	1809.4	1807.4	1797.4	1785.3	1763.2	1729.0	1688.8	1614.4	1542.0	1469.7	1389.2
50°	1576.2	1568.1	1564.1	1552.1	1538.0	1509.9	1467.6	1407.3	1343.0	1274.6	1200.2
52.5°	1355.0	1355.0	1345.0	1336.9	1324.8	1302.8	1266.6	1218.3	1164.1	1099.7	1021.3
55°	1170.1	1166.0	1156.0	1145.9	1133.9	1119.8	1087.7	1047.5	989.1	926.8	858.5
57.5°	973.1	971.0	967.0	954.9	948.9	934.8	898.7	858.5	808.2	753.9	697.6
60°	796.1	788.1	780.0	772.0	762.0	747.9	723.7	689.6	647.4	599.1	542.8
62.5°	637.3	649.3	625.3	625.3	605.2	593.1	571.0	550.9	506.6	462.4	414.2
65°	496.6	496.6	486.5	478.5	466.4	452.3	430.2	410.1	377.9	343.7	309.6
67.5°	380.0	377.9	367.9	359.9	349.8	341.8	325.7	301.5	277.5	249.3	221.1
70°	279.5	277.5	275.4	261.3	253.3	243.3	231.2	215.2	197.0	176.9	150.8
72.5°	201.0	201.0	195.0	189.0	181.0	172.9	160.9	150.8	134.7	120.7	102.5
75°	128.7	126.7	126.7	116.6	116.6	104.5	96.5	90.4	82.4	74.4	58.3
77.5°	92.5	90.4	88.5	84.4	80.4	76.4	70.3	62.3	56.3	48.2	42.2
80°	62.3	58.3	56.3	56.3	50.2	48.2	50.2	38.2	36.2	30.1	26.1
82.5°	38.2	38.2	36.2	36.2	34.2	32.2	26.1	26.1	24.2	22.1	18.1
85°	20.1	26.1	18.1	20.1	18.1	20.1	18.1	14.1	12.1	10.0	10.0
87.5°	12.1	8.0	8.0	12.1	10.0	8.0	8.0	8.0	6.0	4.1	4.1
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	4302.3	4302.3	4302.3	4302.3	4302.3	4302.3	4302.3	4302.3	4302.3	4302.3	4302.3
2.5°	4236.0	4250.1	4248.0	4266.2	4272.2	4286.3	4286.3	4296.3	4302.3	4316.4	4328.5
5°	4135.5	4157.6	4163.6	4185.7	4203.8	4225.9	4240.0	4262.1	4282.2	4312.4	4340.5
7.5°	4073.2	4091.2	4103.3	4129.4	4149.6	4173.6	4197.8	4227.9	4256.1	4292.3	4332.5
10°	4043.0	4067.1	4085.2	4111.3	4135.5	4161.6	4185.7	4219.9	4252.1	4298.3	4342.5
12.5°	4034.9	4063.1	4085.2	4121.4	4145.5	4173.6	4201.8	4240.0	4274.2	4322.4	4372.7
15°	4034.9	4073.2	4103.3	4143.5	4171.7	4207.8	4238.0	4276.2	4314.4	4364.6	4412.9
17.5°	4026.9	4073.2	4111.3	4157.6	4193.7	4230.0	4268.1	4304.4	4344.5	4392.8	4447.0
20°	3994.7	4053.1	4099.2	4153.5	4191.8	4232.0	4270.2	4310.3	4352.6	4402.9	4449.1
22.5°	3938.5	4006.8	4059.1	4117.4	4161.6	4201.8	4240.0	4280.2	4326.5	4374.7	4423.0
25°	3864.1	3928.4	3984.7	4045.0	4089.2	4133.4	4169.7	4215.9	4258.1	4304.4	4342.5
27.5°	3751.4	3819.8	3874.1	3936.5	3976.6	4018.9	4049.0	4087.2	4127.5	4165.6	4195.8
30°	3582.6	3644.9	3701.2	3757.5	3797.7	3827.9	3860.0	3890.2	3916.4	3942.4	3968.6
32.5°	3335.3	3391.6	3445.9	3498.1	3530.3	3556.5	3580.6	3598.7	3612.7	3626.8	3628.8
35°	2995.6	3041.8	3075.9	3122.2	3152.4	3176.5	3176.5	3184.5	3182.5	3176.5	3170.4
37.5°	2615.6	2633.6	2647.7	2665.8	2667.8	2667.8	2655.8	2645.7	2629.7	2625.6	2613.5
40°	2219.6	2195.4	2177.3	2153.2	2139.1	2108.9	2082.8	2064.7	2038.6	2034.6	2030.5
42.5°	1843.5	1787.3	1737.0	1694.8	1646.6	1604.3	1566.1	1538.0	1517.9	1515.8	1517.9
45°	1538.0	1473.6	1399.2	1341.0	1286.7	1234.4	1184.2	1150.0	1131.9	1127.8	1131.9
47.5°	1306.8	1232.4	1160.0	1093.6	1035.4	977.0	926.8	880.6	858.5	852.4	850.4
50°	1123.8	1047.5	971.0	902.6	838.4	780.0	717.7	673.5	645.4	635.3	627.3
52.5°	944.9	876.6	798.1	727.8	663.4	595.1	530.8	480.5	452.3	440.3	432.2
55°	788.1	719.8	647.4	579.0	510.7	442.3	377.9	329.7	299.6	285.5	275.4
57.5°	629.2	564.9	502.6	434.3	377.9	311.6	247.3	205.1	178.9	162.9	154.8
60°	486.5	436.3	382.0	325.7	271.4	217.1	164.8	124.6	104.5	92.5	82.4
62.5°	367.9	325.7	289.5	241.2	199.0	152.8	112.6	80.4	62.3	52.3	48.2
65°	265.4	233.2	201.0	170.9	140.8	106.6	76.4	52.3	36.2	30.1	28.1
67.5°	189.0	162.9	138.7	118.6	96.5	76.4	54.3	36.2	28.1	24.2	22.1
70°	132.7	112.6	96.5	78.4	64.3	50.2	42.2	26.1	16.1	18.1	14.1
72.5°	88.5	74.4	66.4	54.3	44.2	36.2	26.1	18.1	18.1	14.1	12.1
75°	48.2	44.2	34.2	26.1	22.1	20.1	8.0	4.1	2.0	6.0	2.0
77.5°	34.2	30.1	26.1	22.1	18.1	14.1	8.0	8.0	6.0	8.0	4.1
80°	22.1	18.1	16.1	16.1	10.0	6.0	4.1	4.1	6.0	2.0	2.0
82.5°	14.1	12.1	10.0	10.0	10.0	6.0	6.0	6.0	6.0	4.1	4.1
85°	8.0	6.0	4.1	4.1	2.0	4.1	0.0	2.0	2.0	0.0	0.0
87.5°	4.1	2.0	2.0	2.0	2.0	0.0	0.0	2.0	0.0	2.0	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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4302.3	4302.3	4302.3	4302.3	4302.3	4302.3	4302.3	4302.3	4302.3	4302.3	4302.3
2.5°	4336.5	4344.5	4354.6	4362.6	4380.8	4384.7	4392.8	4400.9	4406.9	4412.9	4414.9
5°	4364.6	4394.8	4423.0	4453.1	4491.3	4517.5	4547.6	4573.7	4599.9	4622.0	4638.0
7.5°	4372.7	4418.9	4461.2	4513.4	4569.7	4618.0	4668.2	4718.5	4770.8	4811.0	4845.2
10°	4388.8	4445.1	4499.3	4561.7	4634.1	4698.4	4760.7	4827.0	4893.4	4949.7	5000.0
12.5°	4416.9	4479.2	4537.6	4605.9	4680.3	4752.6	4821.0	4895.4	4965.8	5028.1	5084.4
15°	4463.2	4521.4	4577.8	4642.1	4716.5	4782.9	4851.2	4923.5	4993.9	5058.2	5110.5
17.5°	4493.3	4547.6	4603.9	4662.2	4724.5	4784.8	4849.1	4913.5	4977.8	5036.2	5084.4
20°	4493.3	4545.6	4587.8	4640.1	4698.4	4750.7	4803.0	4859.2	4915.5	4963.7	5010.0
22.5°	4457.1	4507.4	4539.6	4579.8	4630.0	4674.3	4702.4	4764.7	4806.9	4849.1	4883.3
25°	4372.7	4408.9	4435.0	4463.2	4503.4	4533.5	4557.7	4593.8	4636.0	4652.2	4676.3
27.5°	4219.9	4246.0	4260.1	4266.2	4286.3	4302.3	4306.4	4322.4	4340.5	4344.5	4354.6
30°	3978.7	3980.7	3974.6	3972.6	3962.5	3950.5	3948.5	3946.5	3938.5	3930.4	3932.4
32.5°	3614.7	3604.7	3580.6	3554.5	3528.3	3500.2	3484.1	3464.0	3451.9	3439.9	3425.8
35°	3144.3	3120.2	3086.0	3053.8	3023.7	3001.5	2965.4	2953.3	2941.3	2925.2	2921.2
37.5°	2591.4	2577.4	2545.2	2521.1	2505.0	2494.9	2476.8	2464.8	2464.8	2458.8	2454.7
40°	2020.5	2016.5	2004.4	2010.4	2002.4	2006.4	2004.4	2000.3	2010.4	2010.4	2014.5
42.5°	1515.8	1517.9	1523.9	1527.9	1540.0	1542.0	1552.1	1552.1	1558.1	1564.1	1568.1
45°	1127.8	1135.9	1135.9	1144.0	1156.0	1158.0	1162.0	1164.1	1168.0	1178.1	1182.1
47.5°	846.4	848.4	848.4	850.4	854.4	858.5	856.5	858.5	864.5	860.4	864.5
50°	625.3	627.3	621.2	615.2	621.2	621.2	619.2	613.2	619.2	611.2	615.2
52.5°	426.3	424.2	418.1	420.2	416.2	414.2	414.2	410.1	410.1	410.1	402.1
55°	269.4	269.4	265.4	265.4	263.4	259.3	257.4	255.3	253.3	251.3	251.3
57.5°	150.8	152.8	146.8	144.7	146.8	144.7	140.8	140.8	140.8	134.7	138.7
60°	82.4	80.4	78.4	76.4	74.4	76.4	76.4	72.4	72.4	72.4	74.4
62.5°	44.2	44.2	42.2	42.2	40.2	40.2	44.2	38.2	40.2	38.2	40.2
65°	24.2	30.1	22.1	22.1	28.1	26.1	24.2	24.2	26.1	22.1	24.2
67.5°	26.1	18.1	16.1	18.1	16.1	16.1	16.1	20.1	18.1	14.1	18.1
70°	12.1	14.1	14.1	10.0	16.1	8.0	14.1	8.0	12.1	10.0	12.1
72.5°	12.1	12.1	12.1	8.0	12.1	8.0	10.0	10.0	8.0	8.0	12.1
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°	4.1	4.1	2.0	2.0	2.0	2.0	4.1	4.1	4.1	0.0	2.0
80°	4.1	4.1	0.0	2.0	0.0	0.0	2.0	0.0	2.0	0.0	4.1
82.5°	2.0	4.1	2.0	2.0	4.1	4.1	4.1	2.0	2.0	2.0	2.0
85°	0.0	2.0	0.0	0.0	0.0	0.0	4.1	0.0	0.0	0.0	2.0
87.5°	0.0	2.0	0.0	0.0	0.0	0.0	2.0	2.0	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: P250253

CATALOG NUMBER: LSR8B80D010 EC8B80935 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	4302.3	4302.3	4302.3	4302.3
2.5°	4416.9	4418.9	4423.0	4421.0
5°	4650.1	4666.3	4674.3	4672.3
7.5°	4869.2	4897.5	4913.5	4913.5
10°	5038.1	5070.3	5094.4	5098.5
12.5°	5128.6	5164.8	5197.0	5188.9
15°	5154.7	5191.0	5223.1	5217.0
17.5°	5124.6	5160.8	5184.9	5180.9
20°	5042.2	5072.3	5096.5	5094.4
22.5°	4913.5	4939.7	4959.8	4957.7
25°	4696.4	4714.5	4730.6	4722.5
27.5°	4362.6	4368.7	4378.7	4366.7
30°	3918.3	3922.3	3926.4	3924.4
32.5°	3419.8	3417.7	3413.7	3409.7
35°	2915.2	2915.2	2917.1	2905.1
37.5°	2456.7	2454.7	2460.8	2454.7
40°	2018.5	2016.5	2024.5	2014.5
42.5°	1574.2	1580.2	1582.2	1582.2
45°	1184.2	1186.2	1188.1	1188.1
47.5°	864.5	866.5	876.6	864.5
50°	611.2	613.2	615.2	611.2
52.5°	404.1	406.1	404.1	398.0
55°	247.3	249.3	249.3	249.3
57.5°	132.7	134.7	134.7	132.7
60°	72.4	70.3	72.4	68.4
62.5°	38.2	42.2	40.2	36.2
65°	24.2	24.2	24.2	28.1
67.5°	20.1	16.1	18.1	14.1
70°	12.1	14.1	14.1	10.0
72.5°	10.0	10.0	10.0	12.1
75°	0.0	0.0	0.0	0.0
77.5°	4.1	4.1	4.1	2.0
80°	2.0	0.0	2.0	0.0
82.5°	2.0	2.0	4.1	2.0
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)