

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: P250276

Luminaire Tested: **LSR8B100D010 EC8B1009727 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250276
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: LSR8B100D010 EC8B1009727 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7720.0 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

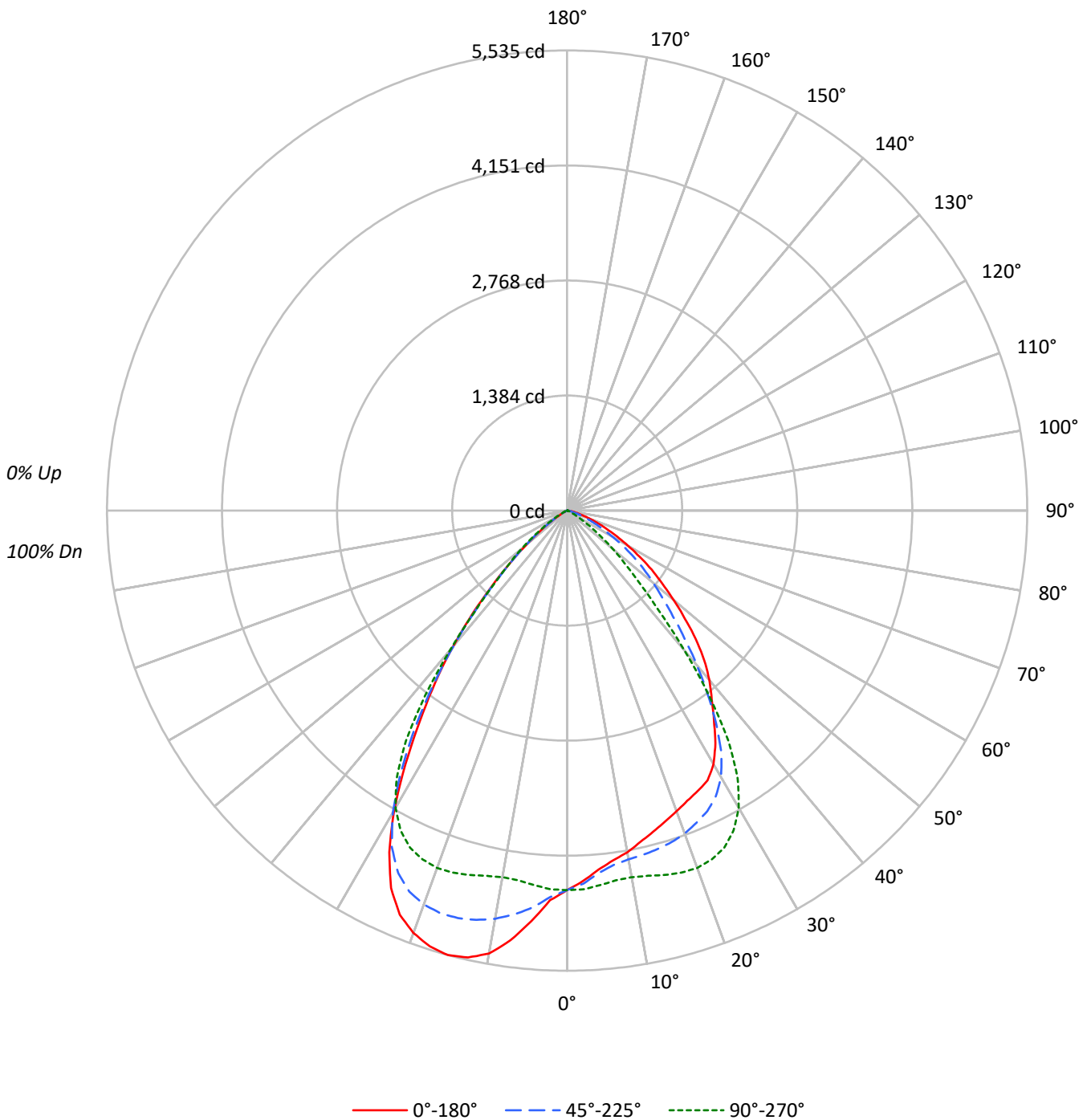
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	100	100			
1	112	109	106	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91	91	91	91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82	82	82	82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73	73	73	73			
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66	66	66	66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60	60	60	60			
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54	54	54	54			
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49	49	49	49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45	45	45	45			
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42	42	42	42			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38	38	38	38			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.8	5.7
10°-20°	1313.4	17.0
20°-30°	2011.3	26.1
30°-40°	1971.8	25.5
40°-50°	1187.4	15.4
50°-60°	546.5	7.1
60°-70°	192.0	2.5
70°-80°	50.2	0.7
80°-90°	8.5	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°	3763.6	48.8
0°-40°	5735.3	74.3
0°-60°	7469.2	96.8
0°-90°	7720.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7720.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4565	4565	4565	4565	4565	
5°	4332	4373	4522	4793	4957	409
15°	4000	4215	4537	5075	5535	1130
25°	3720	3989	4473	4810	5011	1713
35°	3078	3121	3379	3185	3082	1928
45°	2186	1800	1220	1229	1261	1677
55°	1242	983	350	275	264	1108
65°	527	365	56	28	30	537
75°	136	79	4	0	0	166
85°	21	11	2	0	0	29
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°	4564.9	4564.9	4564.9	4564.9	4564.9	4564.9	4564.9	4564.9	4564.9	4564.9	4564.9
2.5°	4458.2	4462.5	4462.5	4462.5	4471.0	4473.2	4471.0	4473.2	4477.4	4492.3	4498.7
5°	4332.4	4325.9	4330.2	4328.1	4338.8	4345.2	4340.9	4347.3	4362.2	4372.9	4383.5
7.5°	4242.8	4242.8	4242.8	4247.0	4253.4	4266.2	4264.1	4268.3	4283.3	4298.2	4313.1
10°	4172.4	4170.3	4170.3	4180.9	4189.4	4204.3	4208.6	4221.5	4240.6	4259.8	4276.9
12.5°	4080.6	4082.8	4093.4	4104.2	4123.3	4146.7	4159.6	4176.7	4206.5	4238.5	4257.7
15°	3999.6	4001.7	4010.3	4031.6	4055.1	4082.8	4110.5	4138.2	4174.5	4215.1	4249.2
17.5°	3920.7	3922.8	3929.2	3952.7	3982.6	4018.8	4050.8	4087.0	4134.0	4180.9	4223.6
20°	3848.1	3846.0	3856.7	3878.0	3916.4	3950.5	3982.6	4025.2	4076.4	4134.0	4183.0
22.5°	3777.7	3777.7	3788.4	3809.8	3843.9	3878.0	3912.1	3956.9	4008.1	4063.6	4121.2
25°	3720.1	3718.0	3732.9	3743.7	3769.2	3803.4	3839.6	3875.9	3927.1	3989.0	4044.4
27.5°	3658.3	3656.2	3658.3	3671.1	3694.6	3720.1	3747.9	3779.9	3822.6	3873.8	3927.1
30°	3521.8	3523.9	3523.9	3534.6	3547.4	3575.1	3590.0	3622.0	3660.4	3703.1	3750.1
32.5°	3319.1	3321.2	3321.2	3325.5	3336.2	3349.0	3361.8	3385.2	3415.1	3451.4	3494.0
35°	3078.1	3078.1	3075.9	3078.1	3084.5	3084.5	3095.2	3084.5	3099.5	3120.8	3152.8
37.5°	2856.2	2851.9	2847.7	2843.4	2837.0	2826.4	2811.5	2785.8	2779.4	2770.9	2773.0
40°	2660.0	2657.9	2645.1	2634.4	2613.0	2587.5	2551.2	2506.4	2470.2	2427.5	2391.3
42.5°	2442.4	2440.2	2429.6	2410.4	2387.0	2348.6	2291.0	2231.3	2158.8	2094.8	2028.6
45°	2186.4	2192.8	2177.9	2156.6	2128.8	2092.6	2028.6	1956.0	1883.5	1800.4	1717.1
47.5°	1919.8	1917.7	1907.0	1894.2	1870.8	1834.5	1791.8	1712.9	1636.1	1559.3	1474.0
50°	1672.3	1663.8	1659.5	1646.8	1631.9	1602.0	1557.1	1493.1	1424.9	1352.4	1273.5
52.5°	1437.7	1437.7	1427.0	1418.5	1405.7	1382.2	1343.9	1292.7	1235.1	1166.8	1083.6
55°	1241.5	1237.2	1226.6	1215.9	1203.0	1188.1	1154.1	1111.4	1049.5	983.4	910.8
57.5°	1032.4	1030.3	1026.0	1013.2	1006.8	991.9	953.5	910.8	857.6	800.0	740.2
60°	844.7	836.2	827.6	819.1	808.5	793.5	767.9	731.6	686.9	635.7	576.0
62.5°	676.2	689.0	663.4	663.4	642.1	629.3	605.8	584.5	537.5	490.6	439.4
65°	526.9	526.9	516.2	507.7	494.8	479.9	456.5	435.1	401.0	364.7	328.5
67.5°	403.2	401.0	390.4	381.8	371.1	362.6	345.6	319.9	294.4	264.5	234.6
70°	296.5	294.4	292.2	277.3	268.8	258.1	245.3	228.3	209.1	187.7	160.0
72.5°	213.3	213.3	206.9	200.5	192.0	183.4	170.7	160.0	142.9	128.0	108.8
75°	136.5	134.4	134.4	123.7	123.7	110.9	102.4	96.0	87.4	78.9	61.9
77.5°	98.2	96.0	93.9	89.6	85.3	81.0	74.6	66.1	59.7	51.2	44.8
80°	66.1	61.9	59.7	59.7	53.3	51.2	53.3	40.6	38.4	32.0	27.7
82.5°	40.6	40.6	38.4	38.4	36.3	34.2	27.7	27.7	25.6	23.4	19.2
85°	21.3	27.7	19.2	21.3	19.2	21.3	19.2	14.9	12.8	10.6	10.6
87.5°	12.8	8.5	8.5	12.8	10.6	8.5	8.5	8.5	6.4	4.3	4.3
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°	4564.9	4564.9	4564.9	4564.9	4564.9	4564.9	4564.9	4564.9	4564.9	4564.9	4564.9
2.5°	4494.5	4509.5	4507.3	4526.5	4532.9	4547.8	4547.8	4558.4	4564.9	4579.8	4592.6
5°	4387.8	4411.3	4417.7	4441.1	4460.4	4483.8	4498.7	4522.2	4543.5	4575.6	4605.4
7.5°	4321.7	4340.9	4353.7	4381.4	4402.8	4428.3	4454.0	4485.9	4515.8	4554.2	4596.9
10°	4289.7	4315.3	4334.5	4362.2	4387.8	4415.6	4441.1	4477.4	4511.6	4560.6	4607.5
12.5°	4281.2	4311.0	4334.5	4372.9	4398.5	4428.3	4458.2	4498.7	4535.0	4586.2	4639.6
15°	4281.2	4321.7	4353.7	4396.4	4426.2	4464.6	4496.6	4537.1	4577.7	4631.0	4682.2
17.5°	4272.7	4321.7	4362.2	4411.3	4449.7	4488.1	4528.6	4567.0	4609.6	4660.9	4718.4
20°	4238.5	4300.4	4349.4	4407.0	4447.6	4490.2	4530.8	4573.4	4618.2	4671.5	4720.6
22.5°	4178.8	4251.3	4306.8	4368.6	4415.6	4458.2	4498.7	4541.4	4590.5	4641.7	4692.9
25°	4099.9	4168.1	4227.9	4291.8	4338.8	4385.7	4424.1	4473.2	4518.0	4567.0	4607.5
27.5°	3980.4	4052.9	4110.5	4176.7	4219.3	4264.1	4296.1	4336.7	4379.3	4419.8	4451.9
30°	3801.2	3867.4	3927.1	3986.8	4029.4	4061.5	4095.6	4127.6	4155.3	4183.0	4210.8
32.5°	3538.8	3598.6	3656.2	3711.6	3745.8	3773.5	3799.1	3818.3	3833.2	3848.1	3850.2
35°	3178.4	3227.4	3263.6	3312.7	3344.8	3370.3	3370.3	3378.8	3376.7	3370.3	3363.9
37.5°	2775.2	2794.3	2809.3	2828.5	2830.6	2830.6	2817.9	2807.2	2790.1	2785.8	2773.0
40°	2355.0	2329.4	2310.1	2284.6	2269.7	2237.6	2209.9	2190.7	2163.0	2158.8	2154.5
42.5°	1956.0	1896.3	1843.0	1798.2	1747.1	1702.2	1661.7	1631.9	1610.5	1608.3	1610.5
45°	1631.9	1563.6	1484.6	1422.8	1365.2	1309.7	1256.4	1220.2	1200.9	1196.6	1200.9
47.5°	1386.6	1307.6	1230.8	1160.4	1098.6	1036.7	983.4	934.3	910.8	904.4	902.3
50°	1192.4	1111.4	1030.3	957.7	889.5	827.6	761.5	714.6	684.8	674.0	665.5
52.5°	1002.6	930.1	846.8	772.2	703.9	631.4	563.2	509.8	479.9	467.2	458.6
55°	836.2	763.7	686.9	614.3	541.8	469.3	401.0	349.8	317.8	302.9	292.2
57.5°	667.6	599.4	533.3	460.8	401.0	330.7	262.3	217.6	189.8	172.8	164.3
60°	516.2	462.9	405.3	345.6	288.0	230.4	174.9	132.2	110.9	98.2	87.4
62.5°	390.4	345.6	307.1	255.9	211.2	162.1	119.5	85.3	66.1	55.5	51.2
65°	281.6	247.4	213.3	181.3	149.3	113.1	81.0	55.5	38.4	32.0	29.9
67.5°	200.5	172.8	147.2	125.8	102.4	81.0	57.6	38.4	29.9	25.6	23.4
70°	140.7	119.5	102.4	83.2	68.2	53.3	44.8	27.7	17.0	19.2	14.9
72.5°	93.9	78.9	70.4	57.6	46.9	38.4	27.7	19.2	19.2	14.9	12.8
75°	51.2	46.9	36.3	27.7	23.4	21.3	8.5	4.3	2.1	6.4	2.1
77.5°	36.3	32.0	27.7	23.4	19.2	14.9	8.5	8.5	6.4	8.5	4.3
80°	23.4	19.2	17.0	17.0	10.6	6.4	4.3	4.3	6.4	2.1	2.1
82.5°	14.9	12.8	10.6	10.6	10.6	6.4	6.4	6.4	6.4	4.3	4.3
85°	8.5	6.4	4.3	4.3	2.1	4.3	0.0	2.1	2.1	0.0	0.0
87.5°	4.3	2.1	2.1	2.1	2.1	0.0	0.0	2.1	0.0	2.1	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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4564.9	4564.9	4564.9	4564.9	4564.9	4564.9	4564.9	4564.9	4564.9	4564.9	4564.9
2.5°	4601.1	4609.6	4620.3	4628.9	4648.1	4652.3	4660.9	4669.4	4675.8	4682.2	4684.3
5°	4631.0	4663.0	4692.9	4724.8	4765.4	4793.1	4825.1	4852.8	4880.6	4904.0	4921.1
7.5°	4639.6	4688.6	4733.4	4788.8	4848.5	4899.8	4953.1	5006.4	5061.9	5104.6	5140.8
10°	4656.6	4716.3	4773.9	4840.0	4916.8	4985.1	5051.2	5121.6	5192.0	5251.7	5305.1
12.5°	4686.5	4752.6	4814.5	4887.0	4965.9	5042.7	5115.2	5194.1	5268.8	5335.0	5394.7
15°	4735.5	4797.3	4857.1	4925.4	5004.3	5074.7	5147.2	5224.0	5298.7	5366.9	5422.4
17.5°	4767.5	4825.1	4884.8	4946.7	5012.8	5076.8	5145.0	5213.3	5281.6	5343.5	5394.7
20°	4767.5	4823.0	4867.8	4923.3	4985.1	5040.6	5096.0	5155.8	5215.5	5266.6	5315.7
22.5°	4729.1	4782.4	4816.6	4859.2	4912.5	4959.5	4989.4	5055.5	5100.3	5145.0	5181.3
25°	4639.6	4677.9	4705.7	4735.5	4778.2	4810.2	4835.8	4874.2	4919.0	4936.1	4961.6
27.5°	4477.4	4505.1	4520.1	4526.5	4547.8	4564.9	4569.2	4586.2	4605.4	4609.6	4620.3
30°	4221.5	4223.6	4217.2	4215.1	4204.3	4191.6	4189.4	4187.3	4178.8	4170.3	4172.4
32.5°	3835.3	3824.7	3799.1	3771.4	3743.7	3713.8	3696.7	3675.3	3662.5	3649.8	3634.9
35°	3336.2	3310.6	3274.4	3240.2	3208.2	3184.7	3146.3	3133.5	3120.8	3103.7	3099.5
37.5°	2749.6	2734.6	2700.5	2674.9	2657.9	2647.2	2628.0	2615.2	2615.2	2608.8	2604.5
40°	2143.7	2139.5	2126.7	2133.1	2124.6	2128.8	2126.7	2122.4	2133.1	2133.1	2137.4
42.5°	1608.3	1610.5	1616.9	1621.2	1634.0	1636.1	1646.8	1646.8	1653.2	1659.5	1663.8
45°	1196.6	1205.2	1205.2	1213.8	1226.6	1228.7	1232.9	1235.1	1239.3	1250.0	1254.2
47.5°	898.0	900.1	900.1	902.3	906.5	910.8	908.7	910.8	917.3	913.0	917.3
50°	663.4	665.5	659.1	652.7	659.1	659.1	657.0	650.6	657.0	648.5	652.7
52.5°	452.3	450.1	443.7	445.9	441.6	439.4	439.4	435.1	435.1	435.1	426.6
55°	285.9	285.9	281.6	281.6	279.5	275.2	273.1	270.9	268.8	266.7	266.7
57.5°	160.0	162.1	155.8	153.6	155.8	153.6	149.3	149.3	149.3	142.9	147.2
60°	87.4	85.3	83.2	81.0	78.9	81.0	81.0	76.8	76.8	76.8	78.9
62.5°	46.9	46.9	44.8	44.8	42.7	42.7	46.9	40.6	42.7	40.6	42.7
65°	25.6	32.0	23.4	23.4	29.9	27.7	25.6	25.6	27.7	23.4	25.6
67.5°	27.7	19.2	17.0	19.2	17.0	17.0	17.0	21.3	19.2	14.9	19.2
70°	12.8	14.9	14.9	10.6	17.0	8.5	14.9	8.5	12.8	10.6	12.8
72.5°	12.8	12.8	12.8	8.5	12.8	8.5	10.6	10.6	8.5	8.5	12.8
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°	4.3	4.3	2.1	2.1	2.1	2.1	4.3	4.3	4.3	0.0	2.1
80°	4.3	4.3	0.0	2.1	0.0	0.0	2.1	0.0	2.1	0.0	4.3
82.5°	2.1	4.3	2.1	2.1	4.3	4.3	4.3	2.1	2.1	2.1	2.1
85°	0.0	2.1	0.0	0.0	0.0	0.0	4.3	0.0	0.0	0.0	2.1
87.5°	0.0	2.1	0.0	0.0	0.0	0.0	2.1	2.1	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: P250276

CATALOG NUMBER: LSR8B100D010 EC8B1009727 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	4564.9	4564.9	4564.9	4564.9
2.5°	4686.5	4688.6	4692.9	4690.8
5°	4933.9	4951.0	4959.5	4957.4
7.5°	5166.4	5196.3	5213.3	5213.3
10°	5345.6	5379.7	5405.3	5409.6
12.5°	5441.5	5480.0	5514.2	5505.6
15°	5469.3	5507.7	5541.8	5535.4
17.5°	5437.3	5475.7	5501.3	5497.0
20°	5349.9	5381.8	5407.5	5405.3
22.5°	5213.3	5241.1	5262.4	5260.2
25°	4983.0	5002.2	5019.2	5010.7
27.5°	4628.9	4635.3	4645.9	4633.2
30°	4157.5	4161.7	4166.0	4163.9
32.5°	3628.5	3626.3	3622.0	3617.7
35°	3093.0	3093.0	3095.2	3082.3
37.5°	2606.6	2604.5	2610.9	2604.5
40°	2141.6	2139.5	2148.0	2137.4
42.5°	1670.2	1676.6	1678.8	1678.8
45°	1256.4	1258.5	1260.6	1260.6
47.5°	917.3	919.4	930.1	917.3
50°	648.5	650.6	652.7	648.5
52.5°	428.7	430.9	428.7	422.3
55°	262.3	264.5	264.5	264.5
57.5°	140.7	142.9	142.9	140.7
60°	76.8	74.6	76.8	72.5
62.5°	40.6	44.8	42.7	38.4
65°	25.6	25.6	25.6	29.9
67.5°	21.3	17.0	19.2	14.9
70°	12.8	14.9	14.9	10.6
72.5°	10.6	10.6	10.6	12.8
75°	0.0	0.0	0.0	0.0
77.5°	4.3	4.3	4.3	2.1
80°	2.1	0.0	2.1	0.0
82.5°	2.1	2.1	4.3	2.1
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)