

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: P248537

Luminaire Tested: **LSR8B100D010 EC8B100930 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248537
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 EC8B100930 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9178.7 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

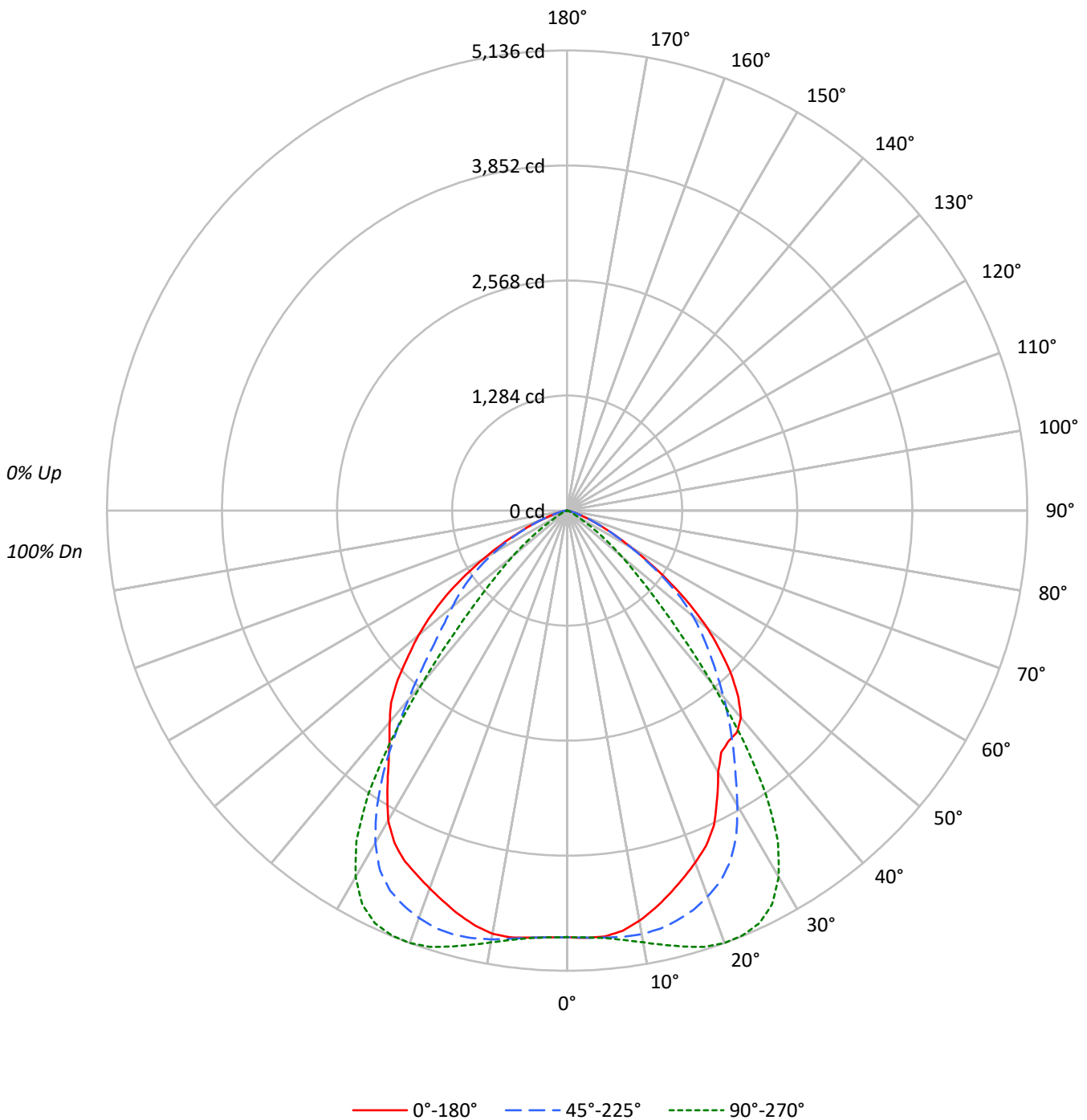
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	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°	457.9	5.0
10°-20°	1356.5	14.8
20°-30°	2069.5	22.5
30°-40°	2159.6	23.5
40°-50°	1622.1	17.7
50°-60°	998.0	10.9
60°-70°	406.2	4.4
70°-80°	95.7	1.0
80°-90°	13.2	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°	3884.0	42.3
0°-40°	6043.5	65.8
0°-60°	8663.7	94.4
0°-90°	9178.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9178.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4762	4762	4762	4762	4762	
5°	4772	4784	4790	4784	4784	451
15°	4426	4736	5037	4898	4668	1247
25°	3877	4312	5080	4678	4307	1763
35°	3142	3230	3870	3576	3475	1984
45°	2593	2244	1400	2090	2674	1978
55°	1400	1329	366	1329	1640	1259
65°	437	442	56	594	629	456
75°	76	76	10	134	139	91
85°	8	8	3	18	23	11
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°	4761.6	4761.6	4761.6	4761.6	4761.6	4761.6	4761.6	4761.6	4761.6	4761.6	4761.6
2.5°	4774.3	4766.7	4774.3	4774.3	4776.8	4771.8	4774.3	4776.8	4771.8	4771.8	4771.8
5°	4771.8	4766.7	4771.8	4769.2	4774.3	4774.3	4779.4	4779.4	4784.3	4784.3	4791.9
7.5°	4731.3	4721.2	4731.3	4738.9	4744.0	4754.0	4766.7	4776.8	4786.9	4797.1	4809.7
10°	4647.9	4647.9	4655.5	4670.6	4685.8	4703.5	4726.2	4751.6	4776.8	4799.6	4822.3
12.5°	4544.3	4536.7	4551.8	4572.1	4594.9	4622.7	4658.0	4696.0	4736.3	4781.8	4817.3
15°	4425.5	4417.9	4435.6	4455.8	4483.7	4524.1	4567.1	4617.6	4675.7	4736.3	4794.5
17.5°	4304.2	4301.6	4319.3	4347.1	4369.9	4412.8	4468.5	4529.1	4594.9	4675.7	4751.6
20°	4180.3	4177.9	4195.6	4218.3	4248.6	4289.1	4344.7	4415.4	4493.8	4584.8	4673.2
22.5°	4051.4	4054.0	4069.1	4094.5	4119.7	4162.6	4220.8	4291.5	4377.5	4476.0	4574.6
25°	3877.0	3864.4	3884.6	3909.9	3952.9	3988.2	4043.9	4119.7	4208.1	4311.8	4428.1
27.5°	3624.3	3621.7	3639.4	3662.2	3700.1	3743.1	3803.8	3882.1	3975.6	4089.3	4203.1
30°	3371.5	3376.6	3384.2	3406.9	3432.2	3475.2	3535.9	3601.5	3690.0	3798.7	3920.0
32.5°	3199.7	3199.7	3209.9	3225.0	3242.6	3265.4	3308.4	3356.4	3424.7	3500.4	3588.9
35°	3141.6	3131.5	3141.6	3144.1	3146.6	3151.7	3159.2	3174.4	3197.1	3230.0	3262.9
37.5°	3116.3	3108.8	3108.8	3098.7	3086.0	3070.8	3050.6	3027.8	3002.6	2969.6	2944.4
40°	3017.7	3012.7	3007.6	2997.6	2969.6	2939.4	2906.5	2853.4	2795.3	2714.4	2633.6
42.5°	2828.2	2823.1	2820.5	2800.4	2775.0	2739.7	2701.8	2646.2	2572.9	2469.2	2353.0
45°	2593.1	2583.0	2575.5	2557.8	2540.0	2509.7	2474.4	2423.7	2350.5	2244.4	2105.4
47.5°	2320.1	2315.1	2312.5	2305.0	2287.3	2269.6	2246.9	2206.5	2140.7	2039.5	1895.6
50°	2044.7	2034.6	2039.5	2037.1	2029.5	2016.9	2001.7	1974.0	1923.3	1832.4	1701.0
52.5°	1728.7	1728.7	1726.2	1733.7	1736.3	1733.7	1736.3	1706.0	1663.0	1594.7	1483.5
55°	1400.1	1400.1	1407.8	1418.0	1427.9	1430.5	1427.9	1415.4	1385.0	1329.4	1230.9
57.5°	1091.9	1086.8	1101.9	1117.1	1127.3	1137.4	1129.7	1119.7	1101.9	1056.4	980.7
60°	831.6	831.6	841.6	851.7	861.8	871.9	869.4	866.9	851.7	821.4	760.8
62.5°	611.6	614.2	614.2	621.7	631.8	642.0	649.5	642.0	634.4	614.2	573.7
65°	437.2	434.7	437.2	444.8	452.4	462.5	467.6	465.1	457.5	442.3	412.0
67.5°	293.1	290.7	300.8	303.2	308.4	318.5	315.9	318.5	315.9	303.2	278.0
70°	192.0	187.0	192.0	189.6	197.2	199.7	204.7	207.3	204.7	197.2	189.6
72.5°	118.8	116.2	118.8	121.3	123.9	126.3	131.4	131.4	128.9	123.9	113.8
75°	75.8	68.2	70.7	65.7	70.7	70.7	75.8	78.4	75.8	75.8	70.7
77.5°	45.5	45.5	45.5	45.5	45.5	45.5	45.5	48.1	50.6	45.5	42.9
80°	22.8	22.8	25.3	25.3	25.3	27.8	25.3	25.3	25.3	27.8	20.2
82.5°	17.7	15.1	15.1	15.1	17.7	15.1	15.1	15.1	15.1	15.1	15.1
85°	7.6	10.1	7.6	5.0	7.6	7.6	10.1	7.6	7.6	7.6	10.1
87.5°	2.6	2.6	0.0	0.0	0.0	2.6	0.0	2.6	2.6	5.0	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	4761.6	4761.6	4761.6	4761.6	4761.6	4761.6	4761.6	4761.6	4761.6	4761.6	4761.6
2.5°	4774.3	4769.2	4769.2	4766.7	4771.8	4766.7	4769.2	4766.7	4766.7	4771.8	4766.7
5°	4791.9	4794.5	4789.5	4786.9	4794.5	4794.5	4794.5	4789.5	4789.5	4791.9	4789.5
7.5°	4817.3	4822.3	4824.8	4827.4	4832.4	4835.0	4835.0	4832.4	4829.8	4837.5	4827.4
10°	4845.1	4852.6	4867.8	4875.3	4888.0	4888.0	4893.1	4893.1	4888.0	4893.1	4890.6
12.5°	4835.0	4880.4	4905.7	4923.4	4941.0	4956.3	4961.3	4963.8	4961.3	4971.4	4961.3
15°	4852.6	4890.6	4930.9	4961.3	4994.2	5011.8	5016.9	5037.1	5042.1	5044.7	5029.6
17.5°	4824.8	4893.1	4936.0	4981.5	5029.6	5062.4	5092.7	5105.4	5107.9	5112.9	5092.7
20°	4761.6	4837.5	4903.1	4968.9	5024.5	5075.0	5100.3	5135.6	5125.7	5145.8	5118.0
22.5°	4675.7	4761.6	4845.1	4930.9	4989.1	5049.8	5102.9	5128.1	5140.8	5140.8	5110.4
25°	4539.3	4640.4	4731.3	4819.7	4908.2	4981.5	5042.1	5080.1	5087.7	5085.2	5049.8
27.5°	4326.9	4435.6	4541.7	4642.8	4751.6	4837.5	4908.2	4953.7	4966.4	4966.4	4928.5
30°	4033.7	4149.9	4253.6	4374.9	4486.1	4582.2	4680.7	4721.2	4744.0	4744.0	4701.0
32.5°	3685.0	3783.5	3879.6	3998.4	4119.7	4228.3	4321.9	4377.5	4405.3	4402.7	4364.8
35°	3305.8	3353.8	3427.2	3515.7	3624.3	3725.4	3816.3	3869.5	3917.4	3915.0	3879.6
37.5°	2926.7	2914.0	2921.7	2954.5	3022.8	3093.5	3164.4	3214.9	3255.3	3273.0	3265.4
40°	2555.2	2489.5	2426.3	2403.6	2408.6	2433.9	2471.8	2509.7	2555.2	2578.0	2588.1
42.5°	2221.6	2110.4	1999.2	1915.8	1867.7	1852.6	1870.3	1882.9	1910.7	1943.6	1976.4
45°	1953.7	1804.6	1658.0	1529.0	1448.2	1400.1	1390.0	1400.1	1415.4	1448.2	1491.2
47.5°	1733.7	1559.4	1395.2	1251.0	1132.2	1069.1	1051.4	1046.3	1061.5	1091.9	1149.9
50°	1539.1	1364.8	1182.9	1016.0	892.2	821.4	796.1	786.0	803.6	826.4	879.5
52.5°	1326.9	1155.0	968.0	806.2	677.3	604.1	576.2	561.1	571.1	601.5	654.6
55°	1096.9	937.6	768.3	601.5	477.7	409.5	376.5	366.5	376.5	409.5	462.5
57.5°	866.9	732.9	591.4	434.7	323.5	255.3	222.4	212.3	240.1	252.8	308.4
60°	677.3	568.7	447.4	318.5	222.4	169.3	136.5	128.9	141.6	164.2	209.7
62.5°	508.0	439.8	343.7	227.5	164.2	108.6	91.0	83.4	91.0	108.6	144.0
65°	369.0	315.9	240.1	166.8	111.2	80.9	60.6	55.6	63.2	75.8	106.2
67.5°	252.8	212.3	166.8	116.2	75.8	50.6	42.9	42.9	45.5	55.6	78.4
70°	164.2	139.0	106.2	75.8	50.6	37.9	32.8	27.8	32.8	40.5	53.0
72.5°	103.7	88.4	68.2	53.0	37.9	27.8	22.8	20.2	25.3	30.3	40.5
75°	63.2	48.1	35.4	27.8	20.2	20.2	20.2	10.1	12.7	20.2	25.3
77.5°	37.9	32.8	27.8	22.8	17.7	10.1	10.1	10.1	12.7	15.1	22.8
80°	20.2	17.7	12.7	12.7	10.1	7.6	10.1	7.6	5.0	12.7	15.1
82.5°	12.7	10.1	10.1	10.1	12.7	5.0	7.6	5.0	7.6	10.1	7.6
85°	7.6	7.6	7.6	5.0	12.7	5.0	5.0	2.6	2.6	5.0	5.0
87.5°	0.0	2.6	2.6	0.0	2.6	0.0	2.6	2.6	2.6	2.6	2.6
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°	4761.6	4761.6	4761.6	4761.6	4761.6	4761.6	4761.6	4761.6	4761.6	4761.6	4761.6
2.5°	4769.2	4766.7	4769.2	4766.7	4766.7	4766.7	4769.2	4769.2	4766.7	4766.7	4771.8
5°	4789.5	4789.5	4789.5	4786.9	4784.3	4784.3	4789.5	4789.5	4781.8	4789.5	4789.5
7.5°	4832.4	4824.8	4832.4	4822.3	4817.3	4819.7	4822.3	4817.3	4812.2	4814.7	4814.7
10°	4888.0	4880.4	4880.4	4872.9	4865.3	4860.2	4855.2	4842.5	4829.8	4827.4	4817.3
12.5°	4953.7	4941.0	4933.5	4918.3	4905.7	4888.0	4872.9	4852.6	4827.4	4809.7	4791.9
15°	5019.4	4999.2	4981.5	4956.3	4928.5	4898.1	4865.3	4832.4	4791.9	4756.6	4726.2
17.5°	5072.5	5044.7	5011.8	4971.4	4930.9	4885.4	4837.5	4789.5	4731.3	4685.8	4650.5
20°	5090.1	5049.8	5006.8	4953.7	4900.7	4837.5	4776.8	4713.6	4647.9	4599.9	4559.4
22.5°	5067.5	5019.4	4966.4	4910.8	4839.9	4771.8	4701.0	4627.7	4569.5	4503.8	4466.0
25°	5004.3	4946.2	4888.0	4822.3	4754.0	4678.3	4602.4	4526.6	4455.8	4420.4	4372.5
27.5°	4875.3	4812.2	4749.0	4680.7	4602.4	4526.6	4448.2	4374.9	4314.3	4266.3	4238.5
30°	4647.9	4574.6	4501.3	4428.1	4359.8	4281.4	4208.1	4147.5	4086.8	4048.9	4021.1
32.5°	4299.1	4233.5	4160.1	4089.3	4026.2	3960.5	3899.7	3846.7	3803.8	3778.4	3758.3
35°	3829.0	3763.3	3707.7	3657.2	3604.0	3576.3	3538.4	3508.1	3490.3	3480.3	3477.7
37.5°	3237.6	3199.7	3182.0	3171.9	3161.8	3154.3	3159.2	3171.9	3182.0	3199.7	3219.8
40°	2605.8	2638.6	2648.7	2684.1	2717.0	2759.9	2808.0	2863.6	2909.0	2967.2	3007.6
42.5°	2029.5	2090.2	2161.0	2236.7	2317.7	2396.0	2492.0	2580.4	2661.4	2734.7	2797.8
45°	1559.4	1652.9	1759.1	1867.7	1976.4	2090.2	2206.5	2315.1	2411.2	2489.5	2555.2
47.5°	1215.7	1319.3	1455.8	1589.8	1721.2	1855.1	1983.9	2097.7	2178.7	2254.4	2312.5
50°	962.9	1081.8	1230.9	1385.0	1529.0	1670.6	1807.1	1913.2	1994.1	2054.8	2097.7
52.5°	745.6	887.2	1038.7	1200.5	1354.7	1508.9	1635.2	1733.7	1799.5	1852.6	1885.4
55°	556.0	695.0	856.8	1023.6	1180.3	1329.4	1448.2	1534.2	1592.3	1622.6	1640.2
57.5°	401.9	528.2	690.0	856.8	998.4	1139.8	1235.9	1314.3	1347.1	1364.8	1372.4
60°	293.1	409.5	553.4	697.6	831.6	945.2	1028.6	1081.8	1107.0	1117.1	1114.6
62.5°	214.8	315.9	439.8	561.1	669.8	763.3	829.0	864.4	877.1	882.0	874.5
65°	164.2	242.6	348.7	442.3	525.7	593.9	642.0	664.8	672.3	669.8	664.8
67.5°	121.3	182.1	260.3	331.1	391.8	444.8	470.1	490.3	495.4	487.9	480.2
70°	86.0	134.0	189.6	237.5	283.1	313.4	341.2	343.7	343.7	341.2	336.2
72.5°	60.6	93.5	128.9	161.8	189.6	212.3	222.4	230.0	227.5	224.9	219.9
75°	40.5	58.2	93.5	101.1	126.3	134.0	144.0	144.0	146.5	139.0	139.0
77.5°	25.3	40.5	55.6	65.7	75.8	86.0	91.0	91.0	93.5	91.0	91.0
80°	15.1	25.3	30.3	45.5	45.5	53.0	55.6	58.2	53.0	60.6	53.0
82.5°	10.1	15.1	22.8	22.8	27.8	32.8	32.8	35.4	35.4	32.8	32.8
85°	7.6	10.1	12.7	15.1	15.1	17.7	15.1	15.1	17.7	20.2	17.7
87.5°	2.6	5.0	2.6	5.0	5.0	10.1	7.6	7.6	7.6	10.1	10.1
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: P248537

CATALOG NUMBER: LSR8B100D010 EC8B100930 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	4761.6	4761.6	4761.6	4761.6
2.5°	4766.7	4769.2	4766.7	4766.7
5°	4789.5	4786.9	4789.5	4784.3
7.5°	4807.1	4807.1	4804.6	4804.6
10°	4807.1	4797.1	4797.1	4797.1
12.5°	4769.2	4756.6	4749.0	4744.0
15°	4703.5	4680.7	4670.6	4668.1
17.5°	4617.6	4597.3	4584.8	4577.2
20°	4519.0	4498.8	4483.7	4486.1
22.5°	4433.0	4410.4	4400.3	4395.1
25°	4347.1	4319.3	4311.8	4306.7
27.5°	4208.1	4193.0	4185.4	4177.9
30°	3995.8	3988.2	3975.6	3993.3
32.5°	3750.6	3738.0	3727.9	3735.5
35°	3480.3	3472.6	3480.3	3475.2
37.5°	3232.6	3240.1	3250.2	3255.3
40°	3037.9	3065.7	3075.9	3080.8
42.5°	2843.3	2876.1	2896.4	2909.0
45°	2603.2	2636.0	2658.8	2674.0
47.5°	2355.6	2383.4	2406.1	2403.6
50°	2130.6	2145.8	2155.9	2166.0
52.5°	1903.1	1903.1	1905.7	1905.7
55°	1645.4	1640.2	1637.8	1640.2
57.5°	1362.2	1357.2	1354.7	1347.1
60°	1104.5	1089.4	1079.2	1079.2
62.5°	864.4	846.7	839.2	836.6
65°	649.5	647.0	631.8	629.3
67.5°	470.1	459.9	449.9	452.4
70°	331.1	315.9	315.9	310.9
72.5°	214.8	207.3	204.7	204.7
75°	134.0	134.0	128.9	139.0
77.5°	88.4	88.4	86.0	88.4
80°	53.0	53.0	53.0	50.6
82.5°	32.8	35.4	32.8	32.8
85°	17.7	20.2	15.1	22.8
87.5°	10.1	12.7	10.1	12.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)