

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: P248519

Luminaire Tested: **LSR8B100D010 EC8B100950 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248519
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 EC8B100950 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10250.0 lumens
Efficiency: N/A
Efficacy: 96.4 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

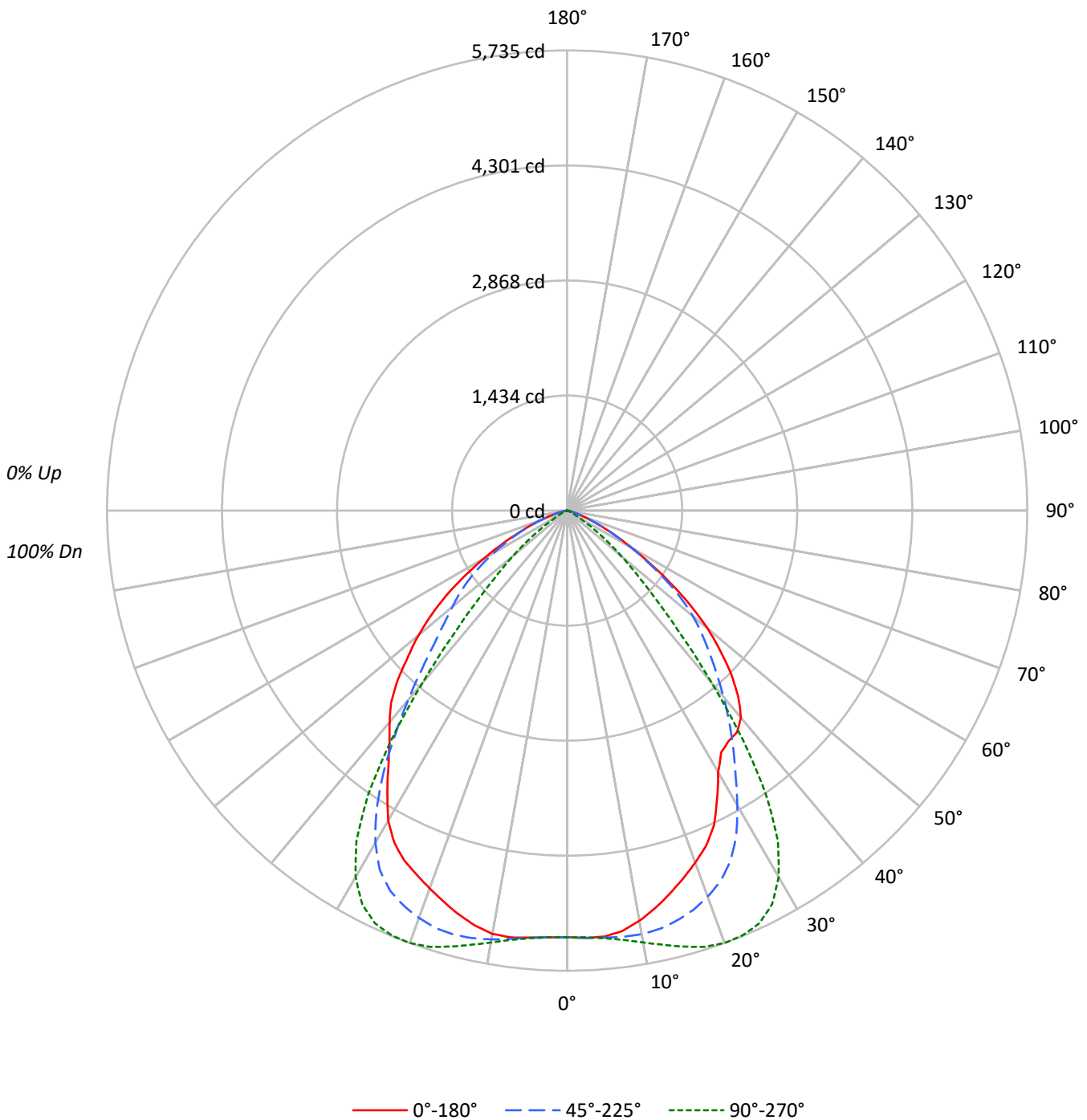
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	163966	163966	163966
5°	164945	165555	165382
10°	162519	171095	167735
15°	157769	179573	166417
20°	153192	188199	164395
25°	147307	193019	163632
30°	134059	187726	158781
35°	132063	162664	146090
40°	135652	112816	138494
45°	126283	68187	130221
50°	109536	42106	116037
55°	84061	21999	98475
60°	57269	8875	74322
65°	35621	4531	51272
70°	19339	2804	31303
75°	10091	1346	18491
80°	4511	1509	10015
85°	3007	991	8987



TEST NUMBER: P248519

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	511.4	5.0
10°-20°	1514.8	14.8
20°-30°	2311.0	22.5
30°-40°	2411.6	23.5
40°-50°	1811.4	17.7
50°-60°	1114.5	10.9
60°-70°	453.6	4.4
70°-80°	106.9	1.0
80°-90°	14.7	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°	4337.3	42.3
0°-40°	6748.9	65.8
0°-60°	9674.8	94.4
0°-90°	10250.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10250.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5317	5317	5317	5317	5317	
5°	5329	5343	5348	5343	5343	504
15°	4942	5289	5625	5470	5213	1392
25°	4330	4815	5673	5224	4809	1968
35°	3508	3607	4321	3994	3881	2215
45°	2896	2506	1564	2334	2986	2209
55°	1564	1485	409	1485	1832	1405
65°	488	494	62	663	703	509
75°	85	85	11	150	155	102
85°	8	8	3	20	25	12
90°	0	0	0	0	0	



TEST NUMBER: P248519

CATALOG NUMBER: LSR8B100D010 EC8B100950 8LBDW0WH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5317.3	5317.3	5317.3	5317.3	5317.3	5317.3	5317.3	5317.3	5317.3	5317.3	5317.3
2.5°	5331.5	5323.0	5331.5	5331.5	5334.3	5328.7	5331.5	5334.3	5328.7	5328.7	5328.7
5°	5328.7	5323.0	5328.7	5325.8	5331.5	5331.5	5337.2	5337.2	5342.8	5342.8	5351.2
7.5°	5283.5	5272.2	5283.5	5292.0	5297.6	5308.9	5323.0	5334.3	5345.6	5356.9	5371.0
10°	5190.3	5190.3	5198.8	5215.8	5232.7	5252.4	5277.8	5306.1	5334.3	5359.7	5385.1
12.5°	5074.7	5066.2	5083.1	5105.7	5131.1	5162.2	5201.7	5244.0	5289.2	5339.9	5379.5
15°	4942.0	4933.5	4953.3	4975.8	5006.9	5052.1	5100.1	5156.5	5221.4	5289.2	5354.1
17.5°	4806.5	4803.7	4823.4	4854.5	4879.9	4927.8	4990.0	5057.7	5131.1	5221.4	5306.1
20°	4668.3	4665.4	4685.2	4710.6	4744.4	4789.6	4851.7	4930.7	5018.2	5119.8	5218.6
22.5°	4524.3	4527.1	4544.0	4572.3	4600.5	4648.4	4713.3	4792.4	4888.3	4998.4	5108.5
25°	4329.5	4315.4	4338.0	4366.3	4414.2	4453.7	4515.8	4600.5	4699.3	4815.0	4944.8
27.5°	4047.3	4044.4	4064.3	4089.6	4131.9	4179.9	4247.7	4335.2	4439.6	4566.6	4693.6
30°	3765.0	3770.7	3779.2	3804.6	3832.8	3880.8	3948.5	4021.9	4120.7	4242.0	4377.5
32.5°	3573.1	3573.1	3584.4	3601.4	3621.1	3646.5	3694.5	3748.1	3824.3	3909.0	4007.8
35°	3508.2	3496.9	3508.2	3511.0	3513.9	3519.5	3528.0	3544.9	3570.3	3607.0	3643.7
37.5°	3480.0	3471.5	3471.5	3460.3	3446.1	3429.2	3406.6	3381.2	3353.0	3316.3	3288.1
40°	3369.9	3364.3	3358.6	3347.4	3316.3	3282.4	3245.7	3186.5	3121.5	3031.2	2940.9
42.5°	3158.3	3152.6	3149.8	3127.2	3099.0	3059.5	3017.1	2955.0	2873.2	2757.5	2627.6
45°	2895.8	2884.5	2876.0	2856.3	2836.5	2802.6	2763.1	2706.6	2624.8	2506.3	2351.0
47.5°	2591.0	2585.3	2582.5	2574.0	2554.3	2534.5	2509.1	2464.0	2390.5	2277.6	2116.8
50°	2283.3	2272.0	2277.6	2274.9	2266.4	2252.3	2235.3	2204.3	2147.8	2046.2	1899.5
52.5°	1930.5	1930.5	1927.7	1936.1	1939.0	1936.1	1939.0	1905.1	1857.1	1780.9	1656.7
55°	1563.6	1563.6	1572.1	1583.4	1594.6	1597.5	1594.6	1580.6	1546.6	1484.6	1374.5
57.5°	1219.2	1213.6	1230.6	1247.5	1258.8	1270.1	1261.6	1250.3	1230.6	1179.7	1095.1
60°	928.6	928.6	939.8	951.1	962.4	973.7	970.9	968.1	951.1	917.2	849.6
62.5°	683.0	685.8	685.8	694.3	705.6	716.9	725.3	716.9	708.4	685.8	640.7
65°	488.2	485.4	488.2	496.7	505.2	516.5	522.2	519.3	510.8	493.9	460.1
67.5°	327.4	324.6	335.8	338.7	344.3	355.7	352.8	355.7	352.8	338.7	310.5
70°	214.5	208.8	214.5	211.7	220.2	223.0	228.6	231.4	228.6	220.2	211.7
72.5°	132.7	129.8	132.7	135.5	138.3	141.1	146.8	146.8	143.9	138.3	127.0
75°	84.7	76.2	79.0	73.4	79.0	79.0	84.7	87.5	84.7	84.7	79.0
77.5°	50.8	50.8	50.8	50.8	50.8	50.8	50.8	53.7	56.4	50.8	48.0
80°	25.4	25.4	28.2	28.2	28.2	31.1	28.2	28.2	28.2	31.1	22.6
82.5°	19.8	16.9	16.9	16.9	19.8	16.9	16.9	16.9	16.9	16.9	16.9
85°	8.5	11.3	8.5	5.7	8.5	8.5	11.3	8.5	8.5	8.5	11.3
87.5°	2.8	2.8	0.0	0.0	0.0	2.8	0.0	2.8	2.8	5.7	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: P248519

CATALOG NUMBER: LSR8B100D010 EC8B100950 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	5317.3	5317.3	5317.3	5317.3	5317.3	5317.3	5317.3	5317.3	5317.3	5317.3	5317.3
2.5°	5331.5	5325.8	5325.8	5323.0	5328.7	5323.0	5325.8	5323.0	5323.0	5328.7	5323.0
5°	5351.2	5354.1	5348.4	5345.6	5354.1	5354.1	5354.1	5348.4	5348.4	5351.2	5348.4
7.5°	5379.5	5385.1	5387.9	5390.7	5396.4	5399.2	5399.2	5396.4	5393.6	5402.1	5390.7
10°	5410.5	5419.0	5435.9	5444.4	5458.5	5458.5	5464.2	5464.2	5458.5	5464.2	5461.3
12.5°	5399.2	5450.0	5478.2	5498.0	5517.7	5534.7	5540.3	5543.2	5540.3	5551.7	5540.3
15°	5419.0	5461.3	5506.5	5540.3	5577.0	5596.8	5602.4	5625.0	5630.7	5633.5	5616.6
17.5°	5387.9	5464.2	5512.1	5562.9	5616.6	5653.2	5687.1	5701.2	5704.1	5709.7	5687.1
20°	5317.3	5402.1	5475.4	5548.8	5610.9	5667.3	5695.6	5735.1	5723.8	5746.4	5715.3
22.5°	5221.4	5317.3	5410.5	5506.5	5571.4	5639.2	5698.4	5726.6	5740.7	5740.7	5706.8
25°	5069.0	5181.9	5283.5	5382.3	5481.1	5562.9	5630.7	5673.0	5681.5	5678.7	5639.2
27.5°	4831.9	4953.3	5071.8	5184.7	5306.1	5402.1	5481.1	5531.8	5546.0	5546.0	5503.7
30°	4504.5	4634.3	4750.1	4885.5	5009.7	5117.0	5227.1	5272.2	5297.6	5297.6	5249.7
32.5°	4115.0	4225.1	4332.3	4465.0	4600.5	4721.8	4826.3	4888.3	4919.4	4916.6	4874.3
35°	3691.7	3745.3	3827.2	3925.9	4047.3	4160.2	4261.8	4321.1	4374.7	4371.9	4332.3
37.5°	3268.3	3254.2	3262.7	3299.4	3375.5	3454.6	3533.6	3590.1	3635.2	3655.0	3646.5
40°	2853.4	2780.0	2709.5	2684.1	2689.7	2718.0	2760.3	2802.6	2853.4	2878.9	2890.1
42.5°	2480.9	2356.7	2232.5	2139.4	2085.7	2068.8	2088.6	2102.6	2133.7	2170.4	2207.1
45°	2181.7	2015.2	1851.5	1707.6	1617.2	1563.6	1552.3	1563.6	1580.6	1617.2	1665.2
47.5°	1936.1	1741.4	1558.0	1397.1	1264.4	1193.9	1174.1	1168.5	1185.4	1219.2	1284.2
50°	1718.8	1524.1	1320.9	1134.6	996.3	917.2	889.1	877.7	897.5	922.9	982.2
52.5°	1481.7	1289.8	1081.0	900.3	756.4	674.6	643.5	626.6	637.8	671.7	731.0
55°	1224.9	1047.1	858.0	671.7	533.4	457.2	420.5	409.2	420.5	457.2	516.5
57.5°	968.1	818.5	660.4	485.4	361.2	285.1	248.3	237.1	268.2	282.2	344.3
60°	756.4	635.1	499.6	355.7	248.3	189.1	152.4	143.9	158.1	183.4	234.2
62.5°	567.3	491.1	383.8	254.0	183.4	121.3	101.6	93.2	101.6	121.3	160.9
65°	412.1	352.8	268.2	186.3	124.2	90.3	67.7	62.1	70.6	84.7	118.6
67.5°	282.2	237.1	186.3	129.8	84.7	56.4	48.0	48.0	50.8	62.1	87.5
70°	183.4	155.2	118.6	84.7	56.4	42.3	36.7	31.1	36.7	45.2	59.3
72.5°	115.7	98.8	76.2	59.3	42.3	31.1	25.4	22.6	28.2	33.8	45.2
75°	70.6	53.7	39.5	31.1	22.6	22.6	22.6	11.3	14.1	22.6	28.2
77.5°	42.3	36.7	31.1	25.4	19.8	11.3	11.3	11.3	14.1	16.9	25.4
80°	22.6	19.8	14.1	14.1	11.3	8.5	11.3	8.5	5.7	14.1	16.9
82.5°	14.1	11.3	11.3	11.3	14.1	5.7	8.5	5.7	8.5	11.3	8.5
85°	8.5	8.5	8.5	5.7	14.1	5.7	5.7	2.8	2.8	5.7	5.7
87.5°	0.0	2.8	2.8	0.0	2.8	0.0	2.8	2.8	2.8	2.8	2.8
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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CATALOG NUMBER: LSR8B100D010 EC8B100950 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	5317.3	5317.3	5317.3	5317.3	5317.3	5317.3	5317.3	5317.3	5317.3	5317.3	5317.3
2.5°	5325.8	5323.0	5325.8	5323.0	5323.0	5323.0	5325.8	5325.8	5323.0	5323.0	5328.7
5°	5348.4	5348.4	5348.4	5345.6	5342.8	5342.8	5348.4	5348.4	5339.9	5348.4	5348.4
7.5°	5396.4	5387.9	5396.4	5385.1	5379.5	5382.3	5385.1	5379.5	5373.8	5376.7	5376.7
10°	5458.5	5450.0	5450.0	5441.6	5433.1	5427.4	5421.8	5407.7	5393.6	5390.7	5379.5
12.5°	5531.8	5517.7	5509.3	5492.3	5478.2	5458.5	5441.6	5419.0	5390.7	5371.0	5351.2
15°	5605.2	5582.7	5562.9	5534.7	5503.7	5469.8	5433.1	5396.4	5351.2	5311.7	5277.8
17.5°	5664.5	5633.5	5596.8	5551.7	5506.5	5455.7	5402.1	5348.4	5283.5	5232.7	5193.2
20°	5684.2	5639.2	5591.2	5531.8	5472.6	5402.1	5334.3	5263.7	5190.3	5136.7	5091.6
22.5°	5658.9	5605.2	5546.0	5483.9	5404.8	5328.7	5249.7	5167.8	5102.8	5029.5	4987.2
25°	5588.3	5523.4	5458.5	5385.1	5308.9	5224.2	5139.6	5054.9	4975.8	4936.3	4882.7
27.5°	5444.4	5373.8	5303.2	5227.1	5139.6	5054.9	4967.4	4885.5	4817.8	4764.2	4733.2
30°	5190.3	5108.5	5026.7	4944.8	4868.6	4781.1	4699.3	4631.5	4563.8	4521.4	4490.4
32.5°	4800.8	4727.5	4645.7	4566.6	4496.1	4422.7	4354.9	4295.7	4247.7	4219.4	4196.9
35°	4275.9	4202.5	4140.4	4084.0	4024.7	3993.7	3951.3	3917.4	3897.7	3886.4	3883.6
37.5°	3615.4	3573.1	3553.4	3542.1	3530.8	3522.4	3528.0	3542.1	3553.4	3573.1	3595.7
40°	2909.9	2946.5	2957.9	2997.4	3034.0	3082.0	3135.7	3197.8	3248.5	3313.5	3358.6
42.5°	2266.4	2334.1	2413.1	2497.8	2588.1	2675.6	2782.9	2881.6	2972.0	3053.8	3124.4
45°	1741.4	1845.8	1964.4	2085.7	2207.1	2334.1	2464.0	2585.3	2692.5	2780.0	2853.4
47.5°	1357.6	1473.3	1625.7	1775.3	1922.1	2071.6	2215.6	2342.6	2432.9	2517.5	2582.5
50°	1075.3	1208.0	1374.5	1546.6	1707.6	1865.6	2018.0	2136.5	2226.9	2294.6	2342.6
52.5°	832.6	990.7	1160.0	1340.6	1512.8	1685.0	1826.1	1936.1	2009.5	2068.8	2105.5
55°	620.9	776.2	956.8	1143.1	1318.1	1484.6	1617.2	1713.2	1778.1	1812.0	1831.7
57.5°	448.7	589.9	770.5	956.8	1114.8	1272.9	1380.1	1467.6	1504.3	1524.1	1532.6
60°	327.4	457.2	618.1	779.0	928.6	1055.6	1148.7	1208.0	1236.2	1247.5	1244.7
62.5°	239.9	352.8	491.1	626.6	747.9	852.3	925.7	965.2	979.4	985.0	976.6
65°	183.4	270.9	389.5	493.9	587.1	663.2	716.9	742.3	750.7	747.9	742.3
67.5°	135.5	203.2	290.7	369.7	437.5	496.7	525.0	547.6	553.2	544.7	536.2
70°	96.0	149.6	211.7	265.3	316.1	350.0	381.0	383.8	383.8	381.0	375.4
72.5°	67.7	104.4	143.9	180.7	211.7	237.1	248.3	256.8	254.0	251.2	245.6
75°	45.2	64.9	104.4	112.9	141.1	149.6	160.9	160.9	163.7	155.2	155.2
77.5°	28.2	45.2	62.1	73.4	84.7	96.0	101.6	101.6	104.4	101.6	101.6
80°	16.9	28.2	33.8	50.8	50.8	59.3	62.1	64.9	59.3	67.7	59.3
82.5°	11.3	16.9	25.4	25.4	31.1	36.7	36.7	39.5	39.5	36.7	36.7
85°	8.5	11.3	14.1	16.9	16.9	19.8	16.9	16.9	19.8	22.6	19.8
87.5°	2.8	5.7	2.8	5.7	5.7	11.3	8.5	8.5	8.5	11.3	11.3
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: P248519

CATALOG NUMBER: LSR8B100D010 EC8B100950 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	5317.3	5317.3	5317.3	5317.3
2.5°	5323.0	5325.8	5323.0	5323.0
5°	5348.4	5345.6	5348.4	5342.8
7.5°	5368.2	5368.2	5365.3	5365.3
10°	5368.2	5356.9	5356.9	5356.9
12.5°	5325.8	5311.7	5303.2	5297.6
15°	5252.4	5227.1	5215.8	5212.9
17.5°	5156.5	5133.9	5119.8	5111.3
20°	5046.4	5023.8	5006.9	5009.7
22.5°	4950.4	4925.1	4913.8	4908.1
25°	4854.5	4823.4	4815.0	4809.3
27.5°	4699.3	4682.3	4673.8	4665.4
30°	4462.2	4453.7	4439.6	4459.3
32.5°	4188.4	4174.3	4163.0	4171.5
35°	3886.4	3877.9	3886.4	3880.8
37.5°	3609.9	3618.3	3629.6	3635.2
40°	3392.5	3423.5	3434.9	3440.5
42.5°	3175.2	3211.9	3234.4	3248.5
45°	2907.0	2943.7	2969.1	2986.1
47.5°	2630.5	2661.5	2686.9	2684.1
50°	2379.3	2396.2	2407.5	2418.8
52.5°	2125.2	2125.2	2128.1	2128.1
55°	1837.4	1831.7	1828.9	1831.7
57.5°	1521.2	1515.6	1512.8	1504.3
60°	1233.4	1216.5	1205.1	1205.1
62.5°	965.2	945.5	937.1	934.2
65°	725.3	722.5	705.6	702.7
67.5°	525.0	513.7	502.4	505.2
70°	369.7	352.8	352.8	347.2
72.5°	239.9	231.4	228.6	228.6
75°	149.6	149.6	143.9	155.2
77.5°	98.8	98.8	96.0	98.8
80°	59.3	59.3	59.3	56.4
82.5°	36.7	39.5	36.7	36.7
85°	19.8	22.6	16.9	25.4
87.5°	11.3	14.1	11.3	14.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)