

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: P249293

Luminaire Tested: **LSR8B100D010 EC8B100930 8LBDW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249293
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100930 8LBDW0WMH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9061.0 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

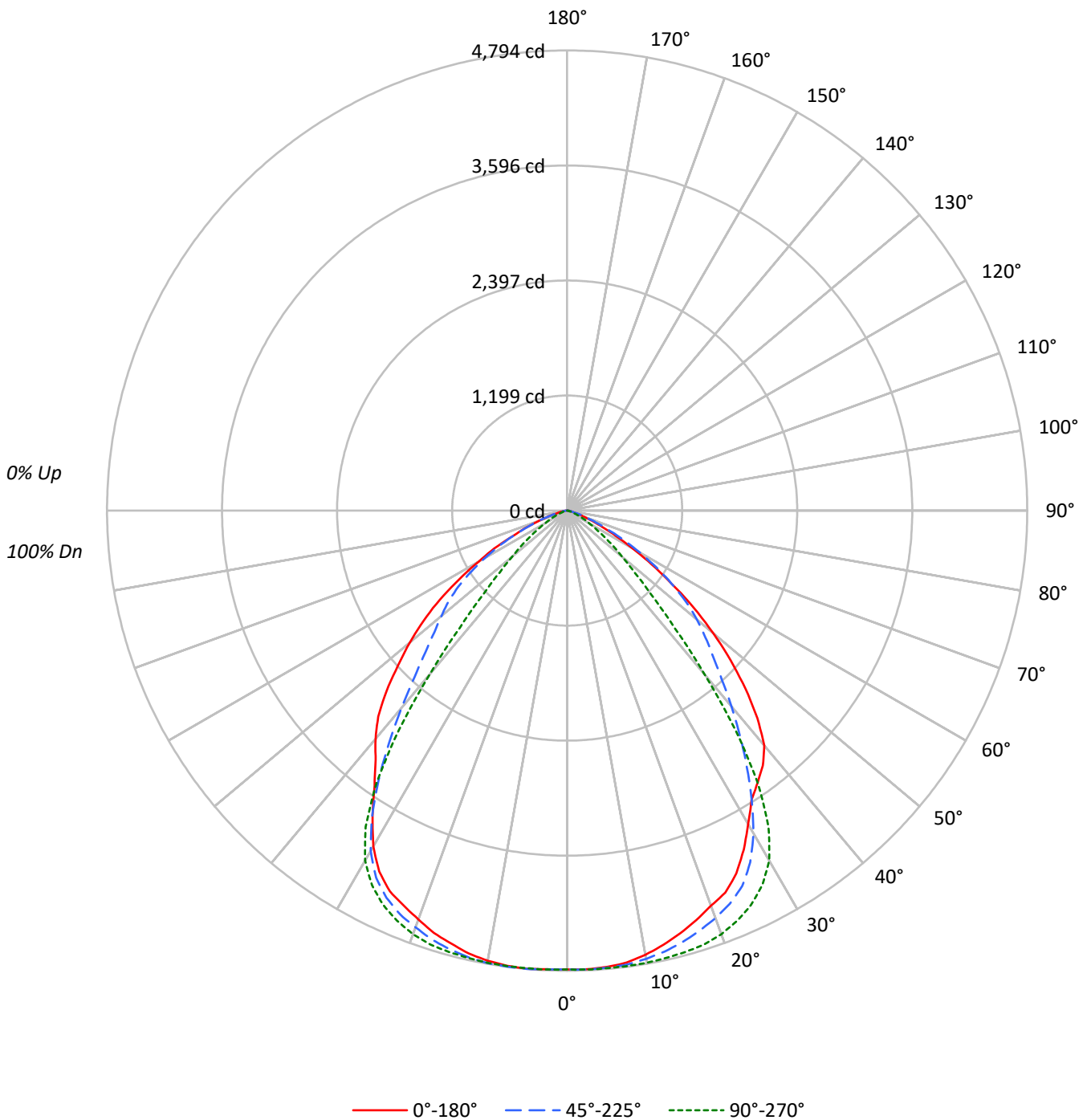
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	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°	456.3	5.0
10°-20°	1325.0	14.6
20°-30°	2011.2	22.2
30°-40°	2112.3	23.3
40°-50°	1583.7	17.5
50°-60°	1016.1	11.2
60°-70°	434.7	4.8
70°-80°	102.7	1.1
80°-90°	19.1	0.2
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°	3792.5	41.9
0°-40°	5904.8	65.2
0°-60°	8504.6	93.9
0°-90°	9061.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9061.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4781	4781	4781	4781	4781	
5°	4773	4781	4786	4794	4791	453
15°	4558	4652	4760	4730	4670	1285
25°	4170	4316	4534	4452	4375	1905
35°	3459	3267	3462	3421	3498	2171
45°	2628	2148	1234	2086	2664	2012
55°	1329	1329	459	1386	1619	1206
65°	400	472	146	608	618	427
75°	62	72	20	123	121	90
85°	20	13	10	20	28	22
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°	4780.7	4780.7	4780.7	4780.7	4780.7	4780.7	4780.7	4780.7	4780.7	4780.7	4780.7
2.5°	4783.3	4788.5	4785.9	4785.9	4783.3	4785.9	4785.9	4791.0	4791.0	4785.9	4783.3
5°	4773.1	4778.3	4778.3	4773.1	4773.1	4785.9	4778.3	4783.3	4783.3	4780.7	4780.7
7.5°	4750.0	4750.0	4760.2	4752.6	4752.6	4760.2	4757.6	4762.8	4767.9	4770.5	4770.5
10°	4698.7	4703.8	4706.4	4706.4	4709.0	4716.6	4721.8	4732.1	4737.1	4742.3	4744.9
12.5°	4634.6	4642.2	4644.8	4642.2	4649.9	4660.1	4673.0	4685.9	4693.5	4703.8	4711.6
15°	4557.5	4557.5	4562.7	4570.4	4575.5	4590.9	4603.7	4619.1	4639.6	4652.5	4665.3
17.5°	4472.9	4478.1	4485.7	4485.7	4496.0	4521.6	4529.3	4552.4	4575.5	4588.4	4614.0
20°	4380.5	4385.6	4393.3	4398.5	4411.2	4431.8	4447.2	4467.7	4493.4	4516.5	4542.1
22.5°	4308.6	4298.4	4303.4	4308.6	4321.5	4339.4	4357.4	4383.0	4408.7	4431.8	4457.4
25°	4170.0	4172.6	4180.3	4185.4	4200.8	4216.2	4236.8	4267.5	4290.6	4316.3	4344.5
27.5°	3982.7	3985.3	3998.2	3998.2	4010.9	4036.6	4049.4	4075.1	4105.9	4131.6	4165.0
30°	3769.7	3774.9	3774.9	3785.2	3792.8	3805.7	3818.5	3844.1	3859.5	3882.6	3928.9
32.5°	3574.8	3579.8	3577.2	3574.8	3567.0	3564.4	3561.9	3567.0	3572.2	3579.8	3597.7
35°	3459.2	3446.4	3436.1	3418.2	3397.6	3372.0	3348.9	3318.0	3289.8	3266.7	3241.1
37.5°	3348.9	3346.3	3330.9	3305.3	3264.1	3217.9	3164.1	3097.3	3030.6	2958.8	2889.5
40°	3194.8	3187.1	3174.3	3138.5	3092.3	3035.8	2963.9	2881.9	2774.0	2663.7	2550.8
42.5°	2933.1	2935.7	2920.3	2892.1	2848.5	2794.5	2720.1	2630.3	2514.9	2383.9	2237.7
45°	2627.7	2627.7	2622.6	2599.5	2568.8	2525.2	2468.7	2394.2	2281.3	2147.8	1991.3
47.5°	2309.6	2312.2	2304.4	2299.3	2286.4	2258.3	2217.2	2160.7	2081.1	1952.9	1796.3
50°	1986.2	1986.2	1999.1	1996.5	1996.5	1986.2	1968.3	1934.8	1865.6	1763.0	1616.7
52.5°	1662.9	1668.0	1675.8	1686.0	1698.8	1719.3	1698.8	1683.4	1639.8	1560.2	1434.5
55°	1329.3	1334.4	1347.2	1365.2	1380.6	1401.1	1406.3	1406.3	1383.1	1329.3	1234.3
57.5°	1044.4	1036.7	1047.0	1062.4	1083.0	1103.5	1118.9	1136.8	1134.2	1098.4	1021.3
60°	785.3	787.8	795.5	810.9	826.3	844.2	864.9	880.2	887.9	870.0	821.1
62.5°	572.3	572.3	582.5	597.9	605.6	631.3	644.1	651.9	659.5	656.9	626.2
65°	400.3	405.5	410.6	418.4	426.0	441.3	449.1	464.4	469.6	472.2	449.1
67.5°	282.3	274.5	279.7	284.8	292.6	302.8	318.3	318.3	325.9	325.9	310.5
70°	179.7	179.7	182.2	189.9	195.1	197.6	202.8	207.8	215.6	213.0	213.0
72.5°	120.6	118.0	120.6	123.2	125.8	133.4	133.4	136.0	141.1	143.7	133.4
75°	61.5	64.1	69.3	66.7	74.4	69.3	71.9	79.6	77.0	71.9	71.9
77.5°	51.3	51.3	51.3	48.8	53.9	53.9	51.3	56.5	53.9	53.9	51.3
80°	35.9	38.5	35.9	33.3	35.9	33.3	33.3	33.3	33.3	33.3	30.7
82.5°	28.2	23.1	25.7	23.1	25.7	25.7	23.1	20.5	20.5	23.1	20.5
85°	20.5	15.4	17.9	17.9	15.4	15.4	15.4	15.4	15.4	12.8	12.8
87.5°	12.8	7.7	7.7	7.7	10.2	10.2	10.2	7.7	10.2	10.2	5.2
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°	4780.7	4780.7	4780.7	4780.7	4780.7	4780.7	4780.7	4780.7	4780.7	4780.7	4780.7
2.5°	4788.5	4785.9	4791.0	4788.5	4788.5	4785.9	4788.5	4785.9	4791.0	4780.7	4783.3
5°	4788.5	4783.3	4785.9	4788.5	4791.0	4785.9	4785.9	4785.9	4791.0	4785.9	4788.5
7.5°	4778.3	4775.7	4783.3	4788.5	4785.9	4783.3	4788.5	4785.9	4791.0	4788.5	4793.6
10°	4757.6	4760.2	4765.4	4773.1	4775.7	4778.3	4783.3	4783.3	4791.0	4780.7	4785.9
12.5°	4726.9	4737.1	4750.0	4755.1	4765.4	4765.4	4770.5	4773.1	4778.3	4775.7	4783.3
15°	4688.5	4701.2	4716.6	4729.5	4742.3	4750.0	4757.6	4760.2	4767.9	4760.2	4762.8
17.5°	4642.2	4657.6	4680.7	4696.1	4716.6	4724.3	4734.5	4739.7	4747.4	4742.3	4744.9
20°	4578.1	4596.1	4621.7	4644.8	4657.6	4675.6	4688.5	4696.1	4701.2	4696.1	4698.7
22.5°	4488.3	4513.9	4547.2	4565.3	4590.9	4606.3	4608.9	4626.8	4639.6	4626.8	4632.0
25°	4383.0	4408.7	4434.3	4472.9	4496.0	4513.9	4531.9	4534.4	4547.2	4544.6	4542.1
27.5°	4208.6	4241.9	4285.5	4316.3	4347.1	4375.4	4395.9	4400.9	4413.8	4408.7	4411.2
30°	3969.8	4005.8	4046.9	4095.6	4139.3	4167.4	4193.1	4211.0	4223.9	4216.2	4213.6
32.5°	3631.1	3667.1	3710.7	3759.4	3810.8	3851.8	3882.6	3905.8	3921.1	3916.0	3903.2
35°	3243.7	3253.9	3282.2	3320.6	3364.2	3407.8	3436.1	3461.8	3479.7	3484.9	3484.9
37.5°	2845.9	2812.6	2792.1	2792.1	2817.6	2835.6	2861.2	2876.7	2905.0	2915.2	2922.9
40°	2460.9	2383.9	2312.2	2258.3	2222.4	2219.8	2219.8	2227.4	2253.1	2286.4	2317.2
42.5°	2117.1	1993.9	1883.6	1783.5	1711.7	1670.6	1652.7	1655.2	1675.8	1706.5	1757.8
45°	1842.5	1688.6	1550.0	1429.4	1331.9	1267.6	1236.9	1234.3	1249.7	1285.7	1342.2
47.5°	1629.5	1465.3	1308.8	1170.2	1065.0	995.7	959.8	949.5	959.8	993.1	1059.8
50°	1452.5	1283.1	1121.4	977.7	864.9	793.0	759.6	746.8	759.6	787.8	854.5
52.5°	1288.3	1113.7	962.4	823.7	703.1	641.5	605.6	597.9	605.6	639.0	692.9
55°	1098.4	949.5	800.6	662.1	556.9	495.3	467.0	459.4	467.0	497.8	554.3
57.5°	911.0	782.7	651.9	526.1	436.3	382.4	356.7	346.4	364.3	385.0	451.7
60°	736.5	633.8	523.5	413.2	338.8	290.0	269.5	266.9	272.0	297.7	343.8
62.5°	577.4	492.7	405.5	315.7	254.0	233.5	207.8	205.4	210.4	225.8	261.8
65°	415.8	361.9	295.2	230.9	182.2	153.9	143.7	146.3	151.3	161.6	195.1
67.5°	290.0	251.4	205.4	161.6	125.8	112.9	102.7	100.1	102.7	120.6	138.6
70°	195.1	172.0	138.6	123.2	87.3	69.3	71.9	64.1	74.4	74.4	89.8
72.5°	128.2	112.9	92.4	71.9	61.5	48.8	48.8	46.2	51.3	53.9	66.7
75°	66.7	51.3	51.3	35.9	25.7	12.8	23.1	20.5	17.9	20.5	25.7
77.5°	46.2	38.5	35.9	28.2	25.7	20.5	20.5	20.5	20.5	23.1	25.7
80°	28.2	28.2	20.5	17.9	15.4	12.8	15.4	15.4	15.4	15.4	17.9
82.5°	17.9	15.4	15.4	12.8	12.8	10.2	10.2	10.2	10.2	10.2	15.4
85°	15.4	10.2	10.2	7.7	10.2	17.9	7.7	10.2	10.2	10.2	7.7
87.5°	5.2	7.7	7.7	7.7	5.2	2.6	5.2	7.7	7.7	12.8	10.2
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°	4780.7	4780.7	4780.7	4780.7	4780.7	4780.7	4780.7	4780.7	4780.7	4780.7	4780.7
2.5°	4788.5	4791.0	4791.0	4788.5	4788.5	4783.3	4793.6	4785.9	4788.5	4798.8	4791.0
5°	4793.6	4796.2	4796.2	4793.6	4793.6	4793.6	4796.2	4796.2	4793.6	4791.0	4796.2
7.5°	4803.9	4801.4	4801.4	4796.2	4796.2	4791.0	4796.2	4788.5	4793.6	4788.5	4796.2
10°	4791.0	4793.6	4791.0	4788.5	4788.5	4785.9	4785.9	4778.3	4780.7	4773.1	4778.3
12.5°	4783.3	4780.7	4780.7	4775.7	4770.5	4765.4	4762.8	4755.1	4755.1	4737.1	4744.9
15°	4762.8	4765.4	4757.6	4747.4	4742.3	4729.5	4724.3	4714.0	4703.8	4691.0	4693.5
17.5°	4744.9	4737.1	4726.9	4716.6	4696.1	4685.9	4675.6	4660.1	4655.1	4639.6	4634.6
20°	4691.0	4685.9	4673.0	4655.1	4642.2	4619.1	4608.9	4593.5	4580.6	4565.3	4557.5
22.5°	4621.7	4616.5	4601.1	4583.2	4562.7	4552.4	4542.1	4513.9	4501.0	4485.7	4483.1
25°	4534.4	4526.7	4511.4	4490.8	4480.5	4452.3	4442.1	4421.4	4416.4	4400.9	4398.5
27.5°	4400.9	4390.7	4372.8	4347.1	4329.2	4311.1	4300.9	4285.5	4280.4	4265.0	4262.5
30°	4200.8	4187.9	4152.1	4141.9	4111.0	4093.0	4093.0	4072.5	4075.1	4064.9	4064.9
32.5°	3885.2	3864.6	3836.4	3815.9	3795.4	3785.2	3785.2	3777.4	3782.6	3782.6	3787.7
35°	3466.9	3438.7	3423.3	3410.4	3410.4	3420.7	3451.6	3459.2	3474.7	3487.4	3497.7
37.5°	2930.5	2928.1	2946.0	2961.3	2999.9	3043.5	3097.3	3143.6	3187.1	3217.9	3248.8
40°	2350.6	2414.7	2466.1	2537.9	2596.9	2681.7	2779.2	2858.7	2933.1	2987.0	3043.5
42.5°	1834.7	1916.9	2024.8	2129.9	2235.2	2350.6	2479.0	2589.3	2686.8	2761.2	2820.2
45°	1429.4	1542.3	1673.2	1806.6	1942.6	2086.3	2219.8	2332.7	2435.4	2512.3	2571.3
47.5°	1152.2	1275.4	1424.2	1570.5	1724.4	1875.9	2024.8	2122.3	2206.9	2268.5	2322.4
50°	952.1	1083.0	1239.5	1406.3	1560.2	1711.7	1839.9	1934.8	2004.2	2058.0	2091.4
52.5°	795.5	934.0	1100.9	1267.6	1421.7	1560.2	1675.8	1747.5	1804.0	1842.5	1873.3
55°	656.9	790.4	946.9	1103.5	1254.8	1385.7	1480.6	1534.5	1578.1	1601.2	1619.3
57.5°	536.4	659.5	803.2	946.9	1077.8	1185.6	1260.0	1313.9	1334.4	1352.4	1349.8
60°	420.9	536.4	667.2	790.4	903.3	990.5	1044.4	1075.3	1090.6	1098.4	1093.2
62.5°	331.0	436.3	536.4	644.1	726.2	800.6	852.0	852.0	859.7	862.3	870.0
65°	246.3	325.9	413.2	492.7	559.4	608.1	636.4	644.1	654.4	651.9	646.7
67.5°	182.2	241.2	305.4	364.3	410.6	441.3	461.9	479.9	477.3	472.2	469.6
70°	125.8	164.2	220.7	256.6	290.0	320.8	325.9	328.5	331.0	333.6	328.5
72.5°	87.3	115.5	146.3	177.1	197.6	210.4	223.3	225.8	225.8	225.8	223.3
75°	43.6	59.1	87.3	100.1	118.0	123.2	133.4	133.4	141.1	130.8	128.2
77.5°	38.5	46.2	61.5	71.9	79.6	87.3	89.8	97.5	94.9	89.8	92.4
80°	23.1	28.2	38.5	43.6	53.9	56.5	59.1	61.5	59.1	61.5	61.5
82.5°	17.9	20.5	25.7	25.7	33.3	33.3	35.9	35.9	38.5	38.5	38.5
85°	10.2	17.9	15.4	30.7	20.5	20.5	25.7	30.7	25.7	25.7	30.7
87.5°	10.2	10.2	7.7	10.2	10.2	10.2	12.8	15.4	15.4	17.9	15.4
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: P249293

CATALOG NUMBER: LSR8B100D010 EC8B100930 8LBDWOWMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	4780.7	4780.7	4780.7	4780.7
2.5°	4788.5	4793.6	4785.9	4783.3
5°	4796.2	4796.2	4791.0	4791.0
7.5°	4796.2	4796.2	4788.5	4783.3
10°	4775.7	4775.7	4767.9	4762.8
12.5°	4737.1	4737.1	4734.5	4726.9
15°	4688.5	4688.5	4678.2	4670.4
17.5°	4621.7	4626.8	4614.0	4614.0
20°	4549.8	4547.2	4537.0	4531.9
22.5°	4475.5	4470.3	4467.7	4452.3
25°	4395.9	4390.7	4383.0	4375.4
27.5°	4259.9	4257.3	4249.6	4239.4
30°	4052.0	4049.4	4039.2	4039.2
32.5°	3782.6	3780.0	3769.7	3772.3
35°	3502.8	3513.1	3507.9	3497.7
37.5°	3269.3	3277.0	3282.2	3277.0
40°	3074.2	3097.3	3099.9	3105.1
42.5°	2866.4	2897.2	2907.5	2912.6
45°	2617.4	2645.8	2668.9	2663.7
47.5°	2363.4	2383.9	2404.5	2389.1
50°	2119.7	2132.5	2140.2	2140.2
52.5°	1888.8	1888.8	1886.2	1888.8
55°	1624.3	1624.3	1614.1	1619.3
57.5°	1347.2	1352.4	1344.6	1331.9
60°	1090.6	1077.8	1072.7	1065.0
62.5°	849.4	849.4	831.4	854.5
65°	636.4	628.8	621.0	618.5
67.5°	461.9	459.4	451.7	449.1
70°	325.9	315.7	313.1	307.9
72.5°	218.1	218.1	213.0	213.0
75°	133.4	120.6	118.0	120.6
77.5°	92.4	89.8	89.8	87.3
80°	61.5	59.1	64.1	56.5
82.5°	38.5	41.0	38.5	41.0
85°	25.7	30.7	28.2	28.2
87.5°	15.4	15.4	15.4	15.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)