

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: P249186

Luminaire Tested: **LSR8B120D010 EC8B1209730 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249186
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: LSR8B120D010 EC8B1209730 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9211.0 lumens
Efficiency: N/A
Efficacy: 77.9 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

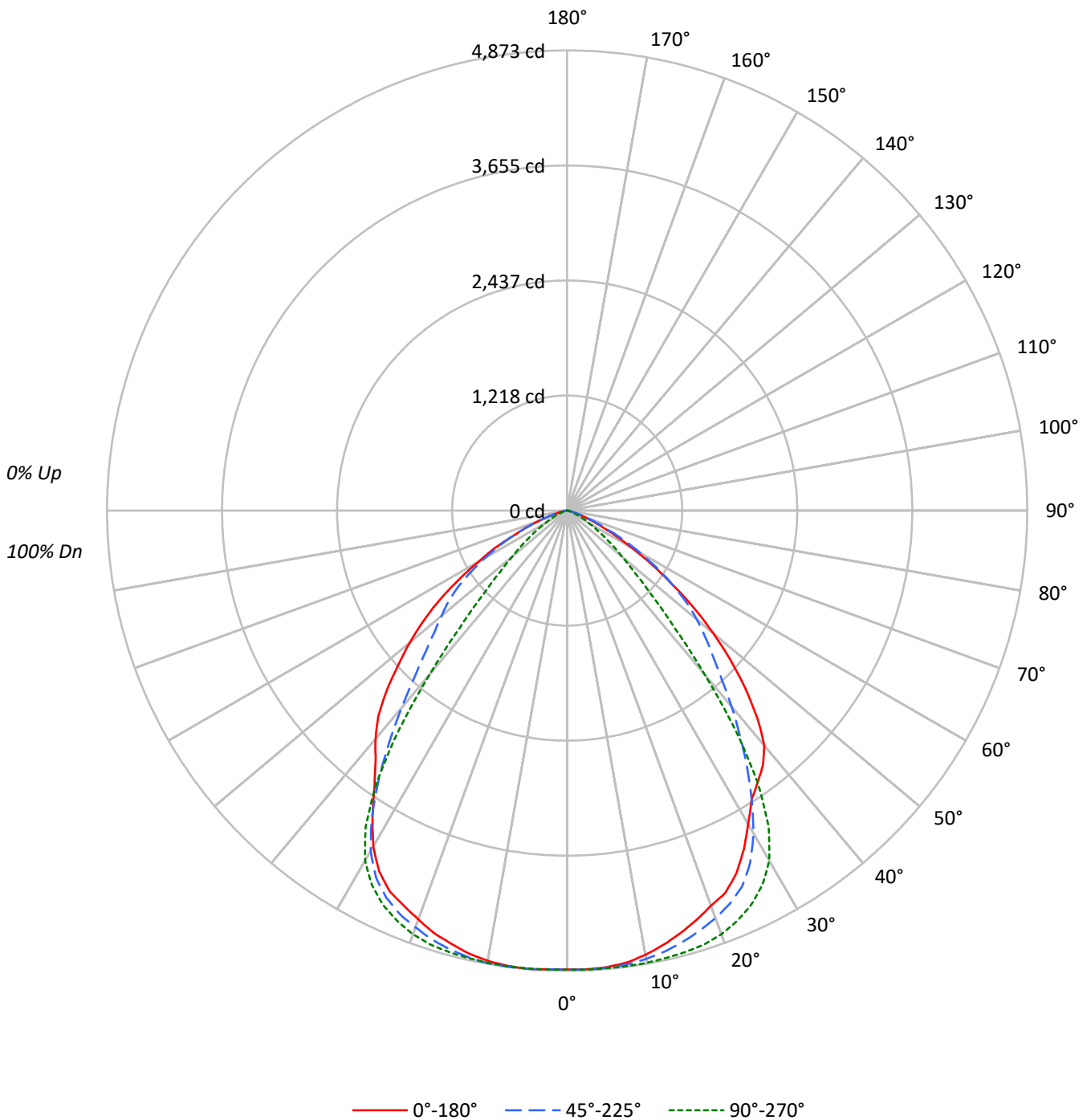
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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						
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°	463.8	5.0
10°-20°	1347.0	14.6
20°-30°	2044.4	22.2
30°-40°	2147.3	23.3
40°-50°	1609.9	17.5
50°-60°	1032.9	11.2
60°-70°	441.9	4.8
70°-80°	104.4	1.1
80°-90°	19.4	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°	3855.2	41.9
0°-40°	6002.5	65.2
0°-60°	8645.3	93.9
0°-90°	9211.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9211.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4860	4860	4860	4860	4860	
5°	4852	4860	4865	4873	4870	461
15°	4633	4730	4839	4808	4748	1307
25°	4239	4388	4610	4526	4448	1937
35°	3516	3321	3519	3477	3556	2207
45°	2671	2183	1255	2121	2708	2046
55°	1351	1351	467	1409	1646	1226
65°	407	480	149	618	629	434
75°	63	73	21	125	123	91
85°	21	13	10	21	29	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°	4859.9	4859.9	4859.9	4859.9	4859.9	4859.9	4859.9	4859.9	4859.9	4859.9	4859.9
2.5°	4862.5	4867.8	4865.1	4865.1	4862.5	4865.1	4865.1	4870.4	4870.4	4865.1	4862.5
5°	4852.1	4857.3	4857.3	4852.1	4852.1	4865.1	4857.3	4862.5	4862.5	4859.9	4859.9
7.5°	4828.6	4828.6	4839.0	4831.2	4831.2	4839.0	4836.4	4841.6	4846.9	4849.5	4849.5
10°	4776.4	4781.6	4784.3	4784.3	4786.9	4794.7	4799.9	4810.4	4815.5	4820.8	4823.4
12.5°	4711.2	4719.0	4721.7	4719.0	4726.9	4737.3	4750.4	4763.4	4771.2	4781.6	4789.5
15°	4632.9	4632.9	4638.2	4646.0	4651.2	4666.9	4679.9	4695.5	4716.4	4729.5	4742.5
17.5°	4546.9	4552.1	4559.9	4559.9	4570.4	4596.4	4604.3	4627.8	4651.2	4664.3	4690.4
20°	4453.0	4458.2	4466.0	4471.2	4484.3	4505.1	4520.8	4541.7	4567.8	4591.2	4617.3
22.5°	4379.9	4369.5	4374.7	4379.9	4393.0	4411.2	4429.5	4455.5	4481.7	4505.1	4531.2
25°	4239.0	4241.7	4249.5	4254.7	4270.4	4286.0	4306.9	4338.2	4361.7	4387.8	4416.4
27.5°	4048.6	4051.2	4064.3	4064.3	4077.3	4103.4	4116.4	4142.5	4173.9	4199.9	4233.9
30°	3832.1	3837.3	3837.3	3847.8	3855.6	3868.6	3881.7	3907.8	3923.4	3946.9	3993.9
32.5°	3633.9	3639.0	3636.4	3633.9	3626.0	3623.4	3620.8	3626.0	3631.3	3639.0	3657.3
35°	3516.5	3503.4	3493.0	3474.7	3453.9	3427.8	3404.3	3373.0	3344.3	3320.8	3294.7
37.5°	3404.3	3401.7	3386.0	3359.9	3318.2	3271.3	3216.5	3148.6	3080.8	3007.8	2937.4
40°	3247.8	3239.9	3226.9	3190.4	3143.4	3086.0	3013.0	2929.5	2819.9	2707.8	2593.0
42.5°	2981.7	2984.3	2968.6	2939.9	2895.6	2840.8	2765.2	2673.9	2556.5	2423.4	2274.8
45°	2671.3	2671.3	2666.0	2642.5	2611.3	2566.9	2509.5	2433.9	2319.1	2183.4	2024.3
47.5°	2347.8	2350.4	2342.5	2337.4	2324.3	2295.6	2253.9	2196.5	2115.6	1985.2	1826.0
50°	2019.1	2019.1	2032.1	2029.5	2029.5	2019.1	2000.9	1966.9	1896.5	1792.1	1643.5
52.5°	1690.4	1695.6	1703.5	1713.9	1726.9	1747.8	1726.9	1711.3	1666.9	1586.0	1458.2
55°	1351.3	1356.5	1369.5	1387.8	1403.5	1424.4	1429.5	1429.5	1406.0	1351.3	1254.8
57.5°	1061.7	1053.9	1064.4	1080.0	1100.9	1121.7	1137.4	1155.6	1153.0	1116.5	1038.2
60°	798.2	800.9	808.7	824.4	840.0	858.2	879.1	894.8	902.6	884.4	834.8
62.5°	581.7	581.7	592.1	607.8	615.6	641.7	654.8	662.6	670.4	667.8	636.5
65°	407.0	412.1	417.4	425.2	433.0	448.7	456.5	472.1	477.4	480.0	456.5
67.5°	287.0	279.1	284.4	289.5	297.4	307.8	323.5	323.5	331.3	331.3	315.6
70°	182.6	182.6	185.2	193.0	198.3	200.9	206.1	211.3	219.1	216.5	216.5
72.5°	122.6	120.0	122.6	125.2	127.8	135.6	135.6	138.3	143.5	146.1	135.6
75°	62.6	65.2	70.4	67.8	75.6	70.4	73.0	80.9	78.3	73.0	73.0
77.5°	52.1	52.1	52.1	49.6	54.8	54.8	52.1	57.4	54.8	54.8	52.1
80°	36.5	39.1	36.5	33.9	36.5	33.9	33.9	33.9	33.9	33.9	31.3
82.5°	28.7	23.5	26.1	23.5	26.1	26.1	23.5	20.9	20.9	23.5	20.9
85°	20.9	15.6	18.3	18.3	15.6	15.6	15.6	15.6	15.6	13.0	13.0
87.5°	13.0	7.8	7.8	7.8	10.4	10.4	10.4	7.8	10.4	10.4	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°	4859.9	4859.9	4859.9	4859.9	4859.9	4859.9	4859.9	4859.9	4859.9	4859.9	4859.9
2.5°	4867.8	4865.1	4870.4	4867.8	4867.8	4865.1	4867.8	4865.1	4870.4	4859.9	4862.5
5°	4867.8	4862.5	4865.1	4867.8	4870.4	4865.1	4865.1	4865.1	4870.4	4865.1	4867.8
7.5°	4857.3	4854.7	4862.5	4867.8	4865.1	4862.5	4867.8	4865.1	4870.4	4867.8	4872.9
10°	4836.4	4839.0	4844.3	4852.1	4854.7	4857.3	4862.5	4862.5	4870.4	4859.9	4865.1
12.5°	4805.1	4815.5	4828.6	4833.8	4844.3	4844.3	4849.5	4852.1	4857.3	4854.7	4862.5
15°	4766.0	4779.0	4794.7	4807.8	4820.8	4828.6	4836.4	4839.0	4846.9	4839.0	4841.6
17.5°	4719.0	4734.7	4758.2	4773.8	4794.7	4802.5	4812.9	4818.2	4826.0	4820.8	4823.4
20°	4653.8	4672.1	4698.2	4721.7	4734.7	4752.9	4766.0	4773.8	4779.0	4773.8	4776.4
22.5°	4562.5	4588.6	4622.5	4640.8	4666.9	4682.5	4685.1	4703.4	4716.4	4703.4	4708.6
25°	4455.5	4481.7	4507.8	4546.9	4570.4	4588.6	4606.9	4609.5	4622.5	4619.9	4617.3
27.5°	4278.2	4312.1	4356.4	4387.8	4419.0	4447.8	4468.6	4473.8	4486.9	4481.7	4484.3
30°	4035.5	4072.1	4113.9	4163.4	4207.8	4236.4	4262.5	4280.8	4293.8	4286.0	4283.4
32.5°	3691.3	3727.8	3772.1	3821.7	3873.9	3915.6	3946.9	3970.4	3986.0	3980.8	3967.8
35°	3297.4	3307.8	3336.5	3375.6	3419.9	3464.3	3493.0	3519.0	3537.3	3542.5	3542.5
37.5°	2893.0	2859.1	2838.2	2838.2	2864.3	2882.5	2908.6	2924.3	2953.0	2963.4	2971.3
40°	2501.7	2423.4	2350.4	2295.6	2259.1	2256.5	2256.5	2264.3	2290.4	2324.3	2355.6
42.5°	2152.1	2026.9	1914.8	1813.0	1740.0	1698.2	1680.0	1682.6	1703.5	1734.8	1786.9
45°	1873.0	1716.5	1575.6	1453.0	1353.9	1288.7	1257.4	1254.8	1270.4	1306.9	1364.4
47.5°	1656.5	1489.5	1330.4	1189.5	1082.6	1012.1	975.6	965.2	975.6	1009.5	1077.4
50°	1476.5	1304.4	1140.0	993.9	879.1	806.1	772.1	759.1	772.1	800.9	868.7
52.5°	1309.5	1132.1	978.2	837.4	714.8	652.1	615.6	607.8	615.6	649.5	704.4
55°	1116.5	965.2	813.9	673.0	566.1	503.5	474.8	467.0	474.8	506.1	563.5
57.5°	926.1	795.6	662.6	534.8	443.5	388.7	362.6	352.1	370.4	391.3	459.1
60°	748.7	644.4	532.1	420.0	344.4	294.8	273.9	271.3	276.5	302.6	349.5
62.5°	587.0	500.9	412.1	320.9	258.3	237.4	211.3	208.7	213.9	229.5	266.1
65°	422.6	367.8	300.0	234.8	185.2	156.5	146.1	148.7	153.9	164.4	198.3
67.5°	294.8	255.6	208.7	164.4	127.8	114.8	104.4	101.7	104.4	122.6	140.9
70°	198.3	174.8	140.9	125.2	88.7	70.4	73.0	65.2	75.6	75.6	91.3
72.5°	130.4	114.8	93.9	73.0	62.6	49.6	49.6	47.0	52.1	54.8	67.8
75°	67.8	52.1	52.1	36.5	26.1	13.0	23.5	20.9	18.3	20.9	26.1
77.5°	47.0	39.1	36.5	28.7	26.1	20.9	20.9	20.9	20.9	23.5	26.1
80°	28.7	28.7	20.9	18.3	15.6	13.0	15.6	15.6	15.6	15.6	18.3
82.5°	18.3	15.6	15.6	13.0	13.0	10.4	10.4	10.4	10.4	10.4	15.6
85°	15.6	10.4	10.4	7.8	10.4	18.3	7.8	10.4	10.4	10.4	7.8
87.5°	5.2	7.8	7.8	7.8	5.2	2.6	5.2	7.8	7.8	13.0	10.4
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°	4859.9	4859.9	4859.9	4859.9	4859.9	4859.9	4859.9	4859.9	4859.9	4859.9	4859.9
2.5°	4867.8	4870.4	4870.4	4867.8	4867.8	4862.5	4872.9	4865.1	4867.8	4878.2	4870.4
5°	4872.9	4875.5	4875.5	4872.9	4872.9	4872.9	4875.5	4875.5	4872.9	4870.4	4875.5
7.5°	4883.4	4880.8	4880.8	4875.5	4875.5	4870.4	4875.5	4867.8	4872.9	4867.8	4875.5
10°	4870.4	4872.9	4870.4	4867.8	4867.8	4865.1	4865.1	4857.3	4859.9	4852.1	4857.3
12.5°	4862.5	4859.9	4859.9	4854.7	4849.5	4844.3	4841.6	4833.8	4833.8	4815.5	4823.4
15°	4841.6	4844.3	4836.4	4826.0	4820.8	4807.8	4802.5	4792.1	4781.6	4768.6	4771.2
17.5°	4823.4	4815.5	4805.1	4794.7	4773.8	4763.4	4752.9	4737.3	4732.1	4716.4	4711.2
20°	4768.6	4763.4	4750.4	4732.1	4719.0	4695.5	4685.1	4669.5	4656.4	4640.8	4632.9
22.5°	4698.2	4692.9	4677.3	4659.0	4638.2	4627.8	4617.3	4588.6	4575.5	4559.9	4557.3
25°	4609.5	4601.7	4586.0	4565.1	4554.7	4526.0	4515.5	4494.7	4489.5	4473.8	4471.2
27.5°	4473.8	4463.4	4445.1	4419.0	4400.8	4382.5	4372.1	4356.4	4351.2	4335.5	4333.0
30°	4270.4	4257.3	4220.8	4210.4	4179.0	4160.8	4160.8	4139.9	4142.5	4132.1	4132.1
32.5°	3949.5	3928.6	3899.9	3879.0	3858.2	3847.8	3847.8	3839.9	3845.1	3845.1	3850.4
35°	3524.3	3495.6	3479.9	3466.9	3466.9	3477.3	3508.6	3516.5	3532.1	3545.1	3555.6
37.5°	2979.0	2976.5	2994.7	3010.4	3049.5	3093.9	3148.6	3195.6	3239.9	3271.3	3302.5
40°	2389.5	2454.7	2506.9	2580.0	2639.9	2726.0	2825.2	2906.0	2981.7	3036.5	3093.9
42.5°	1865.2	1948.6	2058.2	2165.2	2272.1	2389.5	2520.0	2632.1	2731.3	2806.9	2866.9
45°	1453.0	1567.8	1700.9	1836.5	1974.8	2120.9	2256.5	2371.3	2475.6	2553.9	2613.9
47.5°	1171.3	1296.5	1447.8	1596.5	1753.0	1906.9	2058.2	2157.4	2243.4	2306.0	2360.9
50°	967.8	1100.9	1260.0	1429.5	1586.0	1740.0	1870.4	1966.9	2037.4	2092.1	2126.0
52.5°	808.7	949.5	1119.1	1288.7	1445.2	1586.0	1703.5	1776.5	1833.9	1873.0	1904.3
55°	667.8	803.5	962.6	1121.7	1275.6	1408.7	1505.2	1560.0	1604.3	1627.8	1646.0
57.5°	545.2	670.4	816.5	962.6	1095.6	1205.2	1280.9	1335.6	1356.5	1374.8	1372.1
60°	427.8	545.2	678.3	803.5	918.2	1006.9	1061.7	1093.0	1108.7	1116.5	1111.3
62.5°	336.5	443.5	545.2	654.8	738.3	813.9	866.1	866.1	873.9	876.5	884.4
65°	250.4	331.3	420.0	500.9	568.7	618.3	647.0	654.8	665.2	662.6	657.4
67.5°	185.2	245.2	310.4	370.4	417.4	448.7	469.5	487.8	485.2	480.0	477.4
70°	127.8	167.0	224.4	260.9	294.8	326.1	331.3	333.9	336.5	339.1	333.9
72.5°	88.7	117.4	148.7	180.0	200.9	213.9	227.0	229.5	229.5	229.5	227.0
75°	44.4	60.0	88.7	101.7	120.0	125.2	135.6	135.6	143.5	133.0	130.4
77.5°	39.1	47.0	62.6	73.0	80.9	88.7	91.3	99.1	96.5	91.3	93.9
80°	23.5	28.7	39.1	44.4	54.8	57.4	60.0	62.6	60.0	62.6	62.6
82.5°	18.3	20.9	26.1	26.1	33.9	33.9	36.5	36.5	39.1	39.1	39.1
85°	10.4	18.3	15.6	31.3	20.9	20.9	26.1	31.3	26.1	26.1	31.3
87.5°	10.4	10.4	7.8	10.4	10.4	10.4	13.0	15.6	15.6	18.3	15.6
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: P249186

CATALOG NUMBER: LSR8B120D010 EC8B1209730 8LBDW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	4859.9	4859.9	4859.9	4859.9
2.5°	4867.8	4872.9	4865.1	4862.5
5°	4875.5	4875.5	4870.4	4870.4
7.5°	4875.5	4875.5	4867.8	4862.5
10°	4854.7	4854.7	4846.9	4841.6
12.5°	4815.5	4815.5	4812.9	4805.1
15°	4766.0	4766.0	4755.5	4747.8
17.5°	4698.2	4703.4	4690.4	4690.4
20°	4625.1	4622.5	4612.1	4606.9
22.5°	4549.5	4544.3	4541.7	4526.0
25°	4468.6	4463.4	4455.5	4447.8
27.5°	4330.4	4327.8	4319.9	4309.5
30°	4119.0	4116.4	4106.0	4106.0
32.5°	3845.1	3842.5	3832.1	3834.7
35°	3560.8	3571.3	3566.0	3555.6
37.5°	3323.4	3331.3	3336.5	3331.3
40°	3125.2	3148.6	3151.3	3156.5
42.5°	2913.9	2945.2	2955.6	2960.8
45°	2660.8	2689.5	2713.0	2707.8
47.5°	2402.5	2423.4	2444.3	2428.6
50°	2154.8	2167.8	2175.6	2175.6
52.5°	1920.0	1920.0	1917.4	1920.0
55°	1651.3	1651.3	1640.9	1646.0
57.5°	1369.5	1374.8	1366.9	1353.9
60°	1108.7	1095.6	1090.4	1082.6
62.5°	863.5	863.5	845.2	868.7
65°	647.0	639.1	631.3	628.7
67.5°	469.5	467.0	459.1	456.5
70°	331.3	320.9	318.3	313.0
72.5°	221.7	221.7	216.5	216.5
75°	135.6	122.6	120.0	122.6
77.5°	93.9	91.3	91.3	88.7
80°	62.6	60.0	65.2	57.4
82.5°	39.1	41.7	39.1	41.7
85°	26.1	31.3	28.7	28.7
87.5°	15.6	15.6	15.6	15.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)