

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: P248529

Luminaire Tested: **LSR8B120D010 EC8B120927 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248529
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: LSR8B120D010 EC8B120927 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE 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: 9870.7 lumens
Efficiency: N/A
Efficacy: 83.4 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

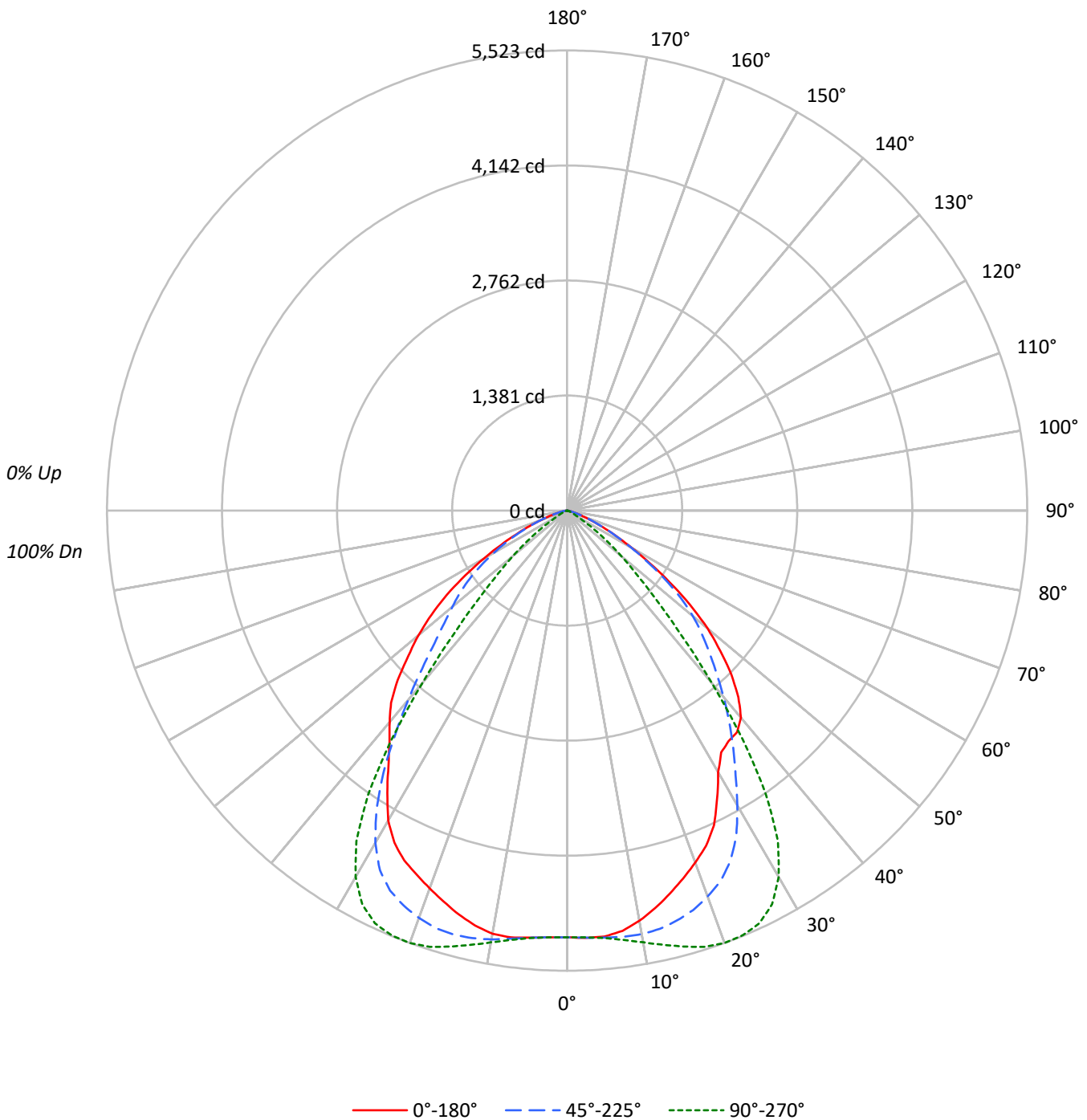
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	492.4	5.0
10°-20°	1458.8	14.8
20°-30°	2225.5	22.5
30°-40°	2322.4	23.5
40°-50°	1744.4	17.7
50°-60°	1073.3	10.9
60°-70°	436.8	4.4
70°-80°	102.9	1.0
80°-90°	14.2	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°	4176.8	42.3
0°-40°	6499.2	65.8
0°-60°	9316.9	94.4
0°-90°	9870.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9870.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5121	5121	5121	5121	5121	
5°	5132	5145	5150	5145	5145	485
15°	4759	5093	5417	5267	5020	1341
25°	4169	4637	5463	5031	4631	1895
35°	3378	3474	4161	3846	3737	2133
45°	2789	2414	1506	2248	2876	2128
55°	1506	1430	394	1430	1764	1354
65°	470	476	60	639	677	490
75°	82	82	11	144	150	98
85°	8	8	3	19	24	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°	5120.6	5120.6	5120.6	5120.6	5120.6	5120.6	5120.6	5120.6	5120.6	5120.6	5120.6
2.5°	5134.3	5126.1	5134.3	5134.3	5137.0	5131.5	5134.3	5137.0	5131.5	5131.5	5131.5
5°	5131.5	5126.1	5131.5	5128.8	5134.3	5134.3	5139.7	5139.7	5145.1	5145.1	5153.3
7.5°	5088.0	5077.1	5088.0	5096.1	5101.5	5112.4	5126.1	5137.0	5147.8	5158.7	5172.3
10°	4998.3	4998.3	5006.5	5022.8	5039.1	5058.1	5082.5	5109.8	5137.0	5161.4	5185.8
12.5°	4886.9	4878.7	4895.0	4916.8	4941.2	4971.2	5009.2	5050.0	5093.4	5142.4	5180.4
15°	4759.2	4751.0	4770.0	4791.7	4821.6	4865.2	4911.4	4965.8	5028.2	5093.4	5156.0
17.5°	4628.7	4625.9	4645.0	4674.9	4699.3	4745.5	4805.3	4870.6	4941.2	5028.2	5109.8
20°	4495.5	4492.8	4511.8	4536.3	4568.8	4612.4	4672.1	4748.3	4832.6	4930.4	5025.5
22.5°	4356.9	4359.6	4375.9	4403.1	4430.2	4476.5	4538.9	4615.1	4707.4	4813.5	4919.5
25°	4169.4	4155.8	4177.5	4204.7	4250.8	4289.0	4348.8	4430.2	4525.4	4636.8	4761.9
27.5°	3897.6	3894.8	3913.9	3938.3	3979.0	4025.2	4090.5	4174.8	4275.3	4397.6	4519.9
30°	3625.8	3631.2	3639.4	3663.8	3691.0	3737.1	3802.4	3873.2	3968.2	4085.1	4215.6
32.5°	3440.9	3440.9	3451.8	3468.2	3487.2	3511.6	3557.8	3609.4	3682.8	3764.4	3859.5
35°	3378.4	3367.6	3378.4	3381.1	3383.9	3389.3	3397.4	3413.8	3438.2	3473.6	3508.9
37.5°	3351.3	3343.0	3343.0	3332.2	3318.6	3302.3	3280.6	3256.1	3229.0	3193.5	3166.4
40°	3245.3	3239.8	3234.4	3223.5	3193.5	3161.0	3125.6	3068.5	3006.0	2919.0	2832.2
42.5°	3041.4	3035.9	3033.2	3011.5	2984.3	2946.3	2905.5	2845.7	2766.9	2655.5	2530.4
45°	2788.6	2777.7	2769.6	2750.6	2731.5	2698.9	2660.8	2606.5	2527.6	2413.6	2264.1
47.5°	2495.1	2489.6	2486.9	2478.8	2459.8	2440.7	2416.3	2372.7	2302.1	2193.4	2038.5
50°	2198.8	2188.0	2193.4	2190.7	2182.5	2169.0	2152.6	2122.8	2068.3	1970.6	1829.1
52.5°	1859.1	1859.1	1856.4	1864.5	1867.3	1864.5	1867.3	1834.6	1788.4	1715.0	1595.5
55°	1505.7	1505.7	1513.9	1524.8	1535.6	1538.3	1535.6	1522.1	1489.4	1429.6	1323.7
57.5°	1174.2	1168.8	1185.1	1201.3	1212.2	1223.1	1214.9	1204.1	1185.1	1136.1	1054.6
60°	894.3	894.3	905.1	916.0	926.8	937.7	935.0	932.3	916.0	883.4	818.1
62.5°	657.7	660.5	660.5	668.6	679.5	690.4	698.5	690.4	682.2	660.5	616.9
65°	470.1	467.4	470.1	478.4	486.6	497.4	502.9	500.1	492.0	475.6	443.0
67.5°	315.3	312.5	323.4	326.1	331.5	342.4	339.8	342.4	339.8	326.1	299.0
70°	206.6	201.2	206.6	203.8	212.1	214.8	220.2	222.9	220.2	212.1	203.8
72.5°	127.8	125.0	127.8	130.5	133.2	135.9	141.3	141.3	138.6	133.2	122.3
75°	81.6	73.4	76.0	70.6	76.0	76.0	81.6	84.3	81.6	81.6	76.0
77.5°	48.9	48.9	48.9	48.9	48.9	48.9	48.9	51.6	54.3	48.9	46.2
80°	24.5	24.5	27.2	27.2	27.2	29.9	27.2	27.2	27.2	29.9	21.7
82.5°	19.0	16.3	16.3	16.3	19.0	16.3	16.3	16.3	16.3	16.3	16.3
85°	8.2	10.8	8.2	5.4	8.2	8.2	10.8	8.2	8.2	8.2	10.8
87.5°	2.7	2.7	0.0	0.0	0.0	2.7	0.0	2.7	2.7	5.4	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°	5120.6	5120.6	5120.6	5120.6	5120.6	5120.6	5120.6	5120.6	5120.6	5120.6	5120.6
2.5°	5134.3	5128.8	5128.8	5126.1	5131.5	5126.1	5128.8	5126.1	5126.1	5131.5	5126.1
5°	5153.3	5156.0	5150.5	5147.8	5156.0	5156.0	5156.0	5150.5	5150.5	5153.3	5150.5
7.5°	5180.4	5185.8	5188.6	5191.3	5196.7	5199.4	5199.4	5196.7	5194.0	5202.2	5191.3
10°	5210.3	5218.5	5234.7	5243.0	5256.6	5256.6	5262.0	5262.0	5256.6	5262.0	5259.3
12.5°	5199.4	5248.3	5275.6	5294.6	5313.6	5329.9	5335.3	5338.0	5335.3	5346.2	5335.3
15°	5218.5	5259.3	5302.8	5335.3	5370.6	5389.7	5395.2	5416.9	5422.3	5425.1	5408.8
17.5°	5188.6	5262.0	5308.1	5357.1	5408.8	5444.1	5476.6	5490.3	5493.0	5498.4	5476.6
20°	5120.6	5202.2	5272.9	5343.5	5403.3	5457.6	5484.8	5522.8	5512.0	5533.8	5503.8
22.5°	5028.2	5120.6	5210.3	5302.8	5365.2	5430.5	5487.5	5514.8	5528.4	5528.4	5495.6
25°	4881.5	4990.2	5088.0	5183.1	5278.3	5357.1	5422.3	5463.1	5471.3	5468.5	5430.5
27.5°	4653.1	4770.0	4884.2	4992.9	5109.8	5202.2	5278.3	5327.2	5340.8	5340.8	5300.0
30°	4337.9	4462.9	4574.4	4704.8	4824.3	4927.6	5033.7	5077.1	5101.5	5101.5	5055.4
32.5°	3962.8	4068.8	4172.1	4299.8	4430.2	4547.1	4647.7	4707.4	4737.4	4734.7	4694.0
35°	3555.1	3606.8	3685.6	3780.7	3897.6	4006.2	4104.1	4161.3	4212.8	4210.1	4172.1
37.5°	3147.4	3133.8	3142.0	3177.3	3250.7	3326.7	3402.9	3457.2	3500.7	3519.8	3511.6
40°	2747.9	2677.2	2609.2	2584.8	2590.2	2617.4	2658.2	2698.9	2747.9	2772.3	2783.1
42.5°	2389.0	2269.5	2149.9	2060.2	2008.6	1992.3	2011.3	2024.9	2054.8	2090.1	2125.5
45°	2100.9	1940.6	1783.0	1644.4	1557.3	1505.7	1494.9	1505.7	1522.1	1557.3	1603.6
47.5°	1864.5	1676.9	1500.3	1345.4	1217.6	1149.8	1130.7	1125.2	1141.5	1174.2	1236.6
50°	1655.2	1467.7	1272.0	1092.6	959.4	883.4	856.1	845.2	864.3	888.8	945.8
52.5°	1427.0	1242.1	1041.0	867.0	728.4	649.6	619.6	603.3	614.2	646.9	703.9
55°	1179.6	1008.3	826.2	646.9	513.7	440.3	404.9	394.1	404.9	440.3	497.4
57.5°	932.3	788.2	636.0	467.4	347.8	274.5	239.2	228.3	258.2	271.8	331.5
60°	728.4	611.6	481.0	342.4	239.2	182.1	146.8	138.6	152.2	176.6	225.6
62.5°	546.3	473.0	369.7	244.6	176.6	116.9	97.9	89.7	97.9	116.9	154.9
65°	396.8	339.8	258.2	179.3	119.6	87.0	65.2	59.7	68.0	81.6	114.2
67.5°	271.8	228.3	179.3	125.0	81.6	54.3	46.2	46.2	48.9	59.7	84.3
70°	176.6	149.5	114.2	81.6	54.3	40.7	35.3	29.9	35.3	43.5	57.0
72.5°	111.5	95.1	73.4	57.0	40.7	29.9	24.5	21.7	27.2	32.6	43.5
75°	68.0	51.6	38.0	29.9	21.7	21.7	21.7	10.8	13.6	21.7	27.2
77.5°	40.7	35.3	29.9	24.5	19.0	10.8	10.8	10.8	13.6	16.3	24.5
80°	21.7	19.0	13.6	13.6	10.8	8.2	10.8	8.2	5.4	13.6	16.3
82.5°	13.6	10.8	10.8	10.8	13.6	5.4	8.2	5.4	8.2	10.8	8.2
85°	8.2	8.2	8.2	5.4	13.6	5.4	5.4	2.7	2.7	5.4	5.4
87.5°	0.0	2.7	2.7	0.0	2.7	0.0	2.7	2.7	2.7	2.7	2.7
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°	5120.6	5120.6	5120.6	5120.6	5120.6	5120.6	5120.6	5120.6	5120.6	5120.6	5120.6
2.5°	5128.8	5126.1	5128.8	5126.1	5126.1	5126.1	5128.8	5128.8	5126.1	5126.1	5131.5
5°	5150.5	5150.5	5150.5	5147.8	5145.1	5145.1	5150.5	5150.5	5142.4	5150.5	5150.5
7.5°	5196.7	5188.6	5196.7	5185.8	5180.4	5183.1	5185.8	5180.4	5175.0	5177.7	5177.7
10°	5256.6	5248.3	5248.3	5240.2	5232.0	5226.6	5221.2	5207.6	5194.0	5191.3	5180.4
12.5°	5327.2	5313.6	5305.5	5289.1	5275.6	5256.6	5240.2	5218.5	5191.3	5172.3	5153.3
15°	5397.9	5376.2	5357.1	5329.9	5300.0	5267.4	5232.0	5196.7	5153.3	5115.3	5082.5
17.5°	5454.9	5425.1	5389.7	5346.2	5302.8	5253.8	5202.2	5150.5	5088.0	5039.1	5001.1
20°	5473.9	5430.5	5384.2	5327.2	5270.1	5202.2	5137.0	5069.0	4998.3	4946.7	4903.2
22.5°	5449.5	5397.9	5340.8	5281.0	5204.8	5131.5	5055.4	4976.6	4914.0	4843.5	4802.6
25°	5381.6	5319.0	5256.6	5185.8	5112.4	5031.0	4949.4	4867.9	4791.7	4753.7	4702.0
27.5°	5243.0	5175.0	5107.0	5033.7	4949.4	4867.9	4783.6	4704.8	4639.6	4587.9	4558.0
30°	4998.3	4919.5	4840.7	4761.9	4688.4	4604.2	4525.4	4460.2	4394.9	4354.1	4324.3
32.5°	4623.2	4552.5	4473.8	4397.6	4329.7	4259.0	4193.8	4136.7	4090.5	4063.3	4041.6
35°	4117.7	4047.1	3987.2	3932.9	3875.7	3845.9	3805.2	3772.5	3753.4	3742.6	3740.0
37.5°	3481.6	3440.9	3421.9	3411.0	3400.1	3392.0	3397.4	3411.0	3421.9	3440.9	3462.6
40°	2802.2	2837.5	2848.4	2886.4	2921.7	2968.0	3019.7	3079.5	3128.3	3190.8	3234.4
42.5°	2182.5	2247.8	2323.8	2405.4	2492.3	2576.6	2679.9	2775.0	2862.0	2940.8	3008.8
45°	1676.9	1777.5	1891.7	2008.6	2125.5	2247.8	2372.7	2489.6	2592.9	2677.2	2747.9
47.5°	1307.4	1418.7	1565.6	1709.7	1851.0	1995.0	2133.6	2255.8	2342.8	2424.4	2486.9
50°	1035.6	1163.2	1323.7	1489.4	1644.4	1796.5	1943.3	2057.5	2144.5	2209.7	2255.8
52.5°	801.8	954.0	1117.0	1291.0	1456.9	1622.6	1758.5	1864.5	1935.2	1992.3	2027.6
55°	597.9	747.4	921.4	1100.8	1269.3	1429.6	1557.3	1649.8	1712.4	1744.9	1764.0
57.5°	432.1	568.1	741.9	921.4	1073.6	1225.8	1329.1	1413.3	1448.7	1467.7	1475.9
60°	315.3	440.3	595.2	750.2	894.3	1016.6	1106.2	1163.2	1190.5	1201.3	1198.6
62.5°	231.1	339.8	473.0	603.3	720.2	820.8	891.4	929.5	943.2	948.6	940.4
65°	176.6	260.9	375.1	475.6	565.3	638.7	690.4	714.8	722.9	720.2	714.8
67.5°	130.5	195.8	280.0	356.1	421.3	478.4	505.6	527.3	532.7	524.6	516.4
70°	92.5	144.0	203.8	255.5	304.4	337.0	366.9	369.7	369.7	366.9	361.5
72.5°	65.2	100.6	138.6	173.9	203.8	228.3	239.2	247.3	244.6	241.9	236.5
75°	43.5	62.6	100.6	108.8	135.9	144.0	154.9	154.9	157.6	149.5	149.5
77.5°	27.2	43.5	59.7	70.6	81.6	92.5	97.9	97.9	100.6	97.9	97.9
80°	16.3	27.2	32.6	48.9	48.9	57.0	59.7	62.6	57.0	65.2	57.0
82.5°	10.8	16.3	24.5	24.5	29.9	35.3	35.3	38.0	38.0	35.3	35.3
85°	8.2	10.8	13.6	16.3	16.3	19.0	16.3	16.3	19.0	21.7	19.0
87.5°	2.7	5.4	2.7	5.4	5.4	10.8	8.2	8.2	8.2	10.8	10.8
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: P248529

CATALOG NUMBER: LSR8B120D010 EC8B120927 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	5120.6	5120.6	5120.6	5120.6
2.5°	5126.1	5128.8	5126.1	5126.1
5°	5150.5	5147.8	5150.5	5145.1
7.5°	5169.5	5169.5	5166.8	5166.8
10°	5169.5	5158.7	5158.7	5158.7
12.5°	5128.8	5115.3	5107.0	5101.5
15°	5058.1	5033.7	5022.8	5020.1
17.5°	4965.8	4943.9	4930.4	4922.2
20°	4859.7	4838.0	4821.6	4824.3
22.5°	4767.3	4742.9	4732.0	4726.5
25°	4674.9	4645.0	4636.8	4631.4
27.5°	4525.4	4509.1	4500.9	4492.8
30°	4297.0	4289.0	4275.3	4294.3
32.5°	4033.5	4019.8	4008.9	4017.2
35°	3742.6	3734.4	3742.6	3737.1
37.5°	3476.2	3484.4	3495.3	3500.7
40°	3267.0	3296.8	3307.7	3313.1
42.5°	3057.8	3093.1	3114.8	3128.3
45°	2799.5	2834.8	2859.3	2875.6
47.5°	2533.2	2563.1	2587.5	2584.8
50°	2291.3	2307.6	2318.4	2329.3
52.5°	2046.6	2046.6	2049.3	2049.3
55°	1769.4	1764.0	1761.2	1764.0
57.5°	1465.0	1459.6	1456.9	1448.7
60°	1187.8	1171.5	1160.6	1160.6
62.5°	929.5	910.5	902.4	899.7
65°	698.5	695.8	679.5	676.8
67.5°	505.6	494.7	483.9	486.6
70°	356.1	339.8	339.8	334.3
72.5°	231.1	222.9	220.2	220.2
75°	144.0	144.0	138.6	149.5
77.5°	95.1	95.1	92.5	95.1
80°	57.0	57.0	57.0	54.3
82.5°	35.3	38.0	35.3	35.3
85°	19.0	21.7	16.3	24.5
87.5°	10.8	13.6	10.8	13.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)