

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: P248538

Luminaire Tested: **LSR8B120D010 EC8B120930 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248538
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 EC8B120930 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: 10405.1 lumens
Efficiency: N/A
Efficacy: 88.0 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

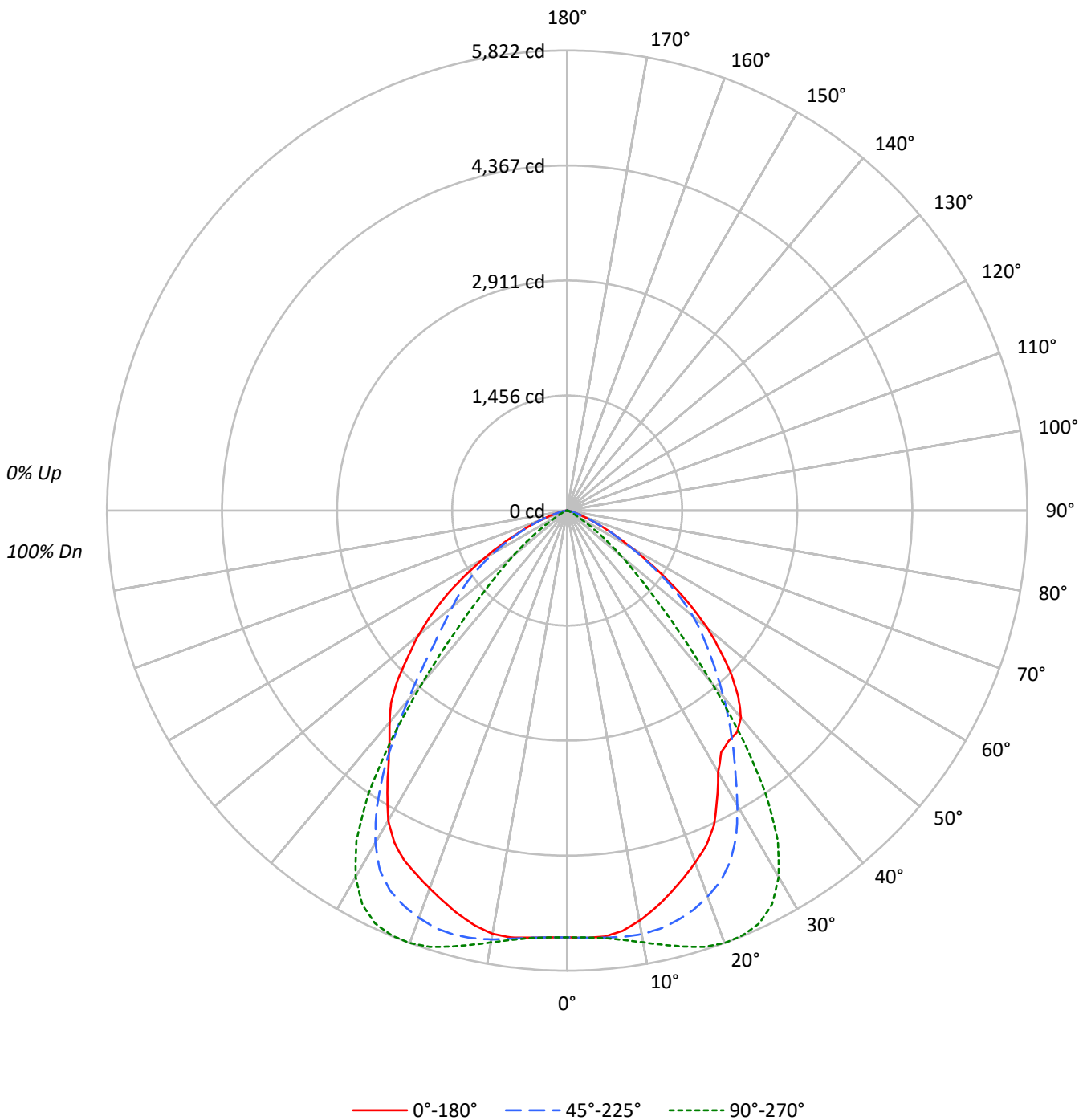
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	519.1	5.0
10°-20°	1537.8	14.8
20°-30°	2346.0	22.5
30°-40°	2448.1	23.5
40°-50°	1838.8	17.7
50°-60°	1131.4	10.9
60°-70°	460.4	4.4
70°-80°	108.5	1.0
80°-90°	14.9	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°	4402.9	42.3
0°-40°	6851.0	65.8
0°-60°	9821.2	94.4
0°-90°	10405.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10405.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5398	5398	5398	5398	5398	
5°	5409	5424	5429	5424	5424	512
15°	5017	5369	5710	5552	5292	1413
25°	4395	4888	5759	5303	4882	1998
35°	3561	3662	4386	4054	3940	2249
45°	2940	2544	1587	2370	3031	2243
55°	1587	1507	415	1507	1859	1427
65°	496	501	63	673	713	517
75°	86	86	11	152	158	103
85°	9	9	3	20	26	12
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°	5397.8	5397.8	5397.8	5397.8	5397.8	5397.8	5397.8	5397.8	5397.8	5397.8	5397.8
2.5°	5412.2	5403.6	5412.2	5412.2	5415.1	5409.3	5412.2	5415.1	5409.3	5409.3	5409.3
5°	5409.3	5403.6	5409.3	5406.5	5412.2	5412.2	5417.9	5417.9	5423.6	5423.6	5432.3
7.5°	5363.4	5352.0	5363.4	5372.1	5377.8	5389.2	5403.6	5415.1	5426.5	5438.0	5452.3
10°	5268.9	5268.9	5277.6	5294.7	5311.9	5331.9	5357.7	5386.4	5415.1	5440.8	5466.6
12.5°	5151.4	5142.8	5160.0	5182.9	5208.7	5240.3	5280.4	5323.4	5369.3	5420.7	5461.0
15°	5016.8	5008.2	5028.2	5051.1	5082.7	5128.6	5177.2	5234.5	5300.4	5369.3	5435.1
17.5°	4879.3	4876.4	4896.4	4927.9	4953.8	5002.5	5065.5	5134.2	5208.7	5300.4	5386.4
20°	4738.9	4736.0	4756.1	4781.8	4816.3	4862.1	4925.1	5005.3	5094.2	5197.3	5297.5
22.5°	4592.7	4595.7	4612.8	4641.5	4670.1	4718.7	4784.7	4864.9	4962.3	5074.1	5185.9
25°	4395.0	4380.8	4403.6	4432.3	4481.0	4521.1	4584.2	4670.1	4770.4	4887.9	5019.6
27.5°	4108.6	4105.7	4125.7	4151.5	4194.4	4243.2	4311.9	4400.8	4506.8	4635.7	4764.6
30°	3822.0	3827.8	3836.4	3862.2	3890.8	3939.5	4008.2	4082.8	4183.0	4306.2	4443.8
32.5°	3627.2	3627.2	3638.7	3655.9	3675.9	3701.7	3750.4	3804.8	3882.2	3968.2	4068.4
35°	3561.3	3549.9	3561.3	3564.2	3567.0	3572.7	3581.4	3598.6	3624.3	3661.6	3698.9
37.5°	3532.7	3524.1	3524.1	3512.7	3498.3	3481.0	3458.2	3432.4	3403.8	3366.5	3337.9
40°	3421.0	3415.2	3409.4	3398.0	3366.5	3332.2	3294.8	3234.6	3168.7	3077.0	2985.4
42.5°	3206.1	3200.3	3197.4	3174.6	3145.9	3105.7	3062.8	2999.8	2916.7	2799.1	2667.4
45°	2939.6	2928.2	2919.5	2899.5	2879.4	2845.0	2805.0	2747.6	2664.5	2544.2	2386.6
47.5°	2630.2	2624.4	2621.6	2612.9	2593.0	2572.8	2547.1	2501.3	2426.7	2312.1	2148.8
50°	2317.9	2306.5	2312.1	2309.3	2300.6	2286.4	2269.1	2237.6	2180.3	2077.2	1928.2
52.5°	1959.7	1959.7	1956.9	1965.4	1968.4	1965.4	1968.4	1933.9	1885.2	1807.8	1681.8
55°	1587.2	1587.2	1595.9	1607.4	1618.7	1621.6	1618.7	1604.5	1570.1	1507.1	1395.3
57.5°	1237.7	1232.0	1249.1	1266.4	1277.8	1289.3	1280.6	1269.2	1249.1	1197.6	1111.7
60°	942.6	942.6	954.1	965.5	977.0	988.5	985.6	982.7	965.5	931.1	862.4
62.5°	693.3	696.3	696.3	704.8	716.2	727.8	736.3	727.8	719.1	696.3	650.4
65°	495.6	492.8	495.6	504.2	512.9	524.3	530.0	527.2	518.6	501.4	467.0
67.5°	332.4	329.5	340.9	343.8	349.5	361.1	358.2	361.1	358.2	343.8	315.2
70°	217.7	212.0	217.7	214.9	223.5	226.3	232.0	235.0	232.0	223.5	214.9
72.5°	134.6	131.8	134.6	137.5	140.5	143.3	149.0	149.0	146.1	140.5	128.9
75°	86.0	77.3	80.2	74.5	80.2	80.2	86.0	88.8	86.0	86.0	80.2
77.5°	51.6	51.6	51.6	51.6	51.6	51.6	51.6	54.5	57.3	51.6	48.8
80°	25.8	25.8	28.7	28.7	28.7	31.5	28.7	28.7	28.7	31.5	22.9
82.5°	20.1	17.2	17.2	17.2	20.1	17.2	17.2	17.2	17.2	17.2	17.2
85°	8.6	11.4	8.6	5.7	8.6	8.6	11.4	8.6	8.6	8.6	11.4
87.5°	2.9	2.9	0.0	0.0	0.0	2.9	0.0	2.9	2.9	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	5397.8	5397.8	5397.8	5397.8	5397.8	5397.8	5397.8	5397.8	5397.8	5397.8	5397.8
2.5°	5412.2	5406.5	5406.5	5403.6	5409.3	5403.6	5406.5	5403.6	5403.6	5409.3	5403.6
5°	5432.3	5435.1	5429.3	5426.5	5435.1	5435.1	5435.1	5429.3	5429.3	5432.3	5429.3
7.5°	5461.0	5466.6	5469.5	5472.4	5478.1	5480.9	5480.9	5478.1	5475.2	5483.8	5472.4
10°	5492.3	5501.0	5518.1	5526.8	5541.1	5541.1	5546.8	5546.8	5541.1	5546.8	5544.0
12.5°	5480.9	5532.5	5561.2	5581.2	5601.3	5618.5	5624.2	5627.1	5624.2	5635.7	5624.2
15°	5501.0	5544.0	5589.9	5624.2	5661.4	5681.5	5687.2	5710.1	5715.9	5718.8	5701.5
17.5°	5469.5	5546.8	5595.5	5647.1	5701.5	5738.8	5773.2	5787.5	5790.4	5796.0	5773.2
20°	5397.8	5483.8	5558.3	5632.8	5695.8	5753.1	5781.8	5821.9	5810.5	5833.3	5801.8
22.5°	5300.4	5397.8	5492.3	5589.9	5655.7	5724.5	5784.7	5813.3	5827.6	5827.6	5793.2
25°	5145.7	5260.3	5363.4	5463.8	5564.0	5647.1	5715.9	5758.8	5767.4	5764.6	5724.5
27.5°	4905.0	5028.2	5148.6	5263.2	5386.4	5483.8	5564.0	5615.5	5629.9	5629.9	5587.0
30°	4572.7	4704.5	4822.0	4959.4	5085.5	5194.5	5306.1	5352.0	5377.8	5377.8	5329.1
32.5°	4177.3	4289.1	4397.9	4532.5	4670.1	4793.3	4899.3	4962.3	4993.8	4991.0	4948.0
35°	3747.5	3802.0	3885.0	3985.4	4108.6	4223.1	4326.3	4386.5	4440.8	4438.0	4397.9
37.5°	3317.7	3303.5	3312.1	3349.3	3426.7	3506.9	3587.1	3644.5	3690.2	3710.3	3701.7
40°	2896.7	2822.1	2750.5	2724.7	2730.4	2759.1	2802.1	2845.0	2896.7	2922.4	2933.9
42.5°	2518.4	2392.3	2266.2	2171.7	2117.2	2100.1	2120.1	2134.5	2166.0	2203.2	2240.5
45°	2214.8	2045.7	1879.5	1733.4	1641.7	1587.2	1575.8	1587.2	1604.5	1641.7	1690.5
47.5°	1965.4	1767.7	1581.5	1418.2	1283.5	1211.9	1192.0	1186.1	1203.4	1237.7	1303.6
50°	1744.8	1547.1	1340.8	1151.7	1011.4	931.1	902.5	891.0	911.0	936.8	997.0
52.5°	1504.2	1309.3	1097.3	914.0	767.9	684.8	653.2	636.1	647.5	681.9	742.1
55°	1243.4	1062.9	871.0	681.9	541.4	464.2	426.9	415.4	426.9	464.2	524.3
57.5°	982.7	830.9	670.4	492.8	366.7	289.4	252.1	240.7	272.2	286.5	349.5
60°	767.9	644.7	507.1	361.1	252.1	191.9	154.7	146.1	160.4	186.2	237.8
62.5°	575.9	498.5	389.7	257.8	186.2	123.2	103.1	94.6	103.1	123.2	163.3
65°	418.4	358.2	272.2	189.1	126.0	91.7	68.7	63.0	71.6	86.0	120.4
67.5°	286.5	240.7	189.1	131.8	86.0	57.3	48.8	48.8	51.6	63.0	88.8
70°	186.2	157.6	120.4	86.0	57.3	42.9	37.2	31.5	37.2	45.8	60.2
72.5°	117.5	100.2	77.3	60.2	42.9	31.5	25.8	22.9	28.7	34.3	45.8
75°	71.6	54.5	40.1	31.5	22.9	22.9	22.9	11.4	14.3	22.9	28.7
77.5°	42.9	37.2	31.5	25.8	20.1	11.4	11.4	11.4	14.3	17.2	25.8
80°	22.9	20.1	14.3	14.3	11.4	8.6	11.4	8.6	5.7	14.3	17.2
82.5°	14.3	11.4	11.4	11.4	14.3	5.7	8.6	5.7	8.6	11.4	8.6
85°	8.6	8.6	8.6	5.7	14.3	5.7	5.7	2.9	2.9	5.7	5.7
87.5°	0.0	2.9	2.9	0.0	2.9	0.0	2.9	2.9	2.9	2.9	2.9
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°	5397.8	5397.8	5397.8	5397.8	5397.8	5397.8	5397.8	5397.8	5397.8	5397.8	5397.8
2.5°	5406.5	5403.6	5406.5	5403.6	5403.6	5403.6	5406.5	5406.5	5403.6	5403.6	5409.3
5°	5429.3	5429.3	5429.3	5426.5	5423.6	5423.6	5429.3	5429.3	5420.7	5429.3	5429.3
7.5°	5478.1	5469.5	5478.1	5466.6	5461.0	5463.8	5466.6	5461.0	5455.1	5458.0	5458.0
10°	5541.1	5532.5	5532.5	5524.0	5515.3	5509.6	5503.9	5489.5	5475.2	5472.4	5461.0
12.5°	5615.5	5601.3	5592.7	5575.4	5561.2	5541.1	5524.0	5501.0	5472.4	5452.3	5432.3
15°	5690.1	5667.1	5647.1	5618.5	5587.0	5552.5	5515.3	5478.1	5432.3	5392.1	5357.7
17.5°	5750.2	5718.8	5681.5	5635.7	5589.9	5538.2	5483.8	5429.3	5363.4	5311.9	5271.7
20°	5770.2	5724.5	5675.7	5615.5	5555.5	5483.8	5415.1	5343.4	5268.9	5214.4	5168.6
22.5°	5744.6	5690.1	5629.9	5566.9	5486.6	5409.3	5329.1	5245.9	5180.0	5105.6	5062.7
25°	5672.9	5607.0	5541.1	5466.6	5389.2	5303.3	5217.4	5131.4	5051.1	5011.1	4956.6
27.5°	5526.8	5455.1	5383.5	5306.1	5217.4	5131.4	5042.6	4959.4	4890.7	4836.3	4804.8
30°	5268.9	5185.9	5102.8	5019.6	4942.3	4853.5	4770.4	4701.6	4632.9	4589.8	4558.4
32.5°	4873.5	4799.0	4715.9	4635.7	4564.2	4489.6	4420.9	4360.7	4311.9	4283.3	4260.4
35°	4340.6	4266.1	4203.1	4145.8	4085.6	4054.1	4011.2	3976.7	3956.7	3945.2	3942.3
37.5°	3670.2	3627.2	3607.2	3595.7	3584.2	3575.7	3581.4	3595.7	3607.2	3627.2	3650.1
40°	2953.9	2991.2	3002.6	3042.7	3079.9	3128.7	3183.2	3246.2	3297.6	3363.6	3409.4
42.5°	2300.6	2369.5	2449.6	2535.6	2627.3	2716.1	2825.0	2925.2	3016.9	3100.0	3171.6
45°	1767.7	1873.8	1994.1	2117.2	2240.5	2369.5	2501.3	2624.4	2733.3	2822.1	2896.7
47.5°	1378.2	1495.6	1650.3	1802.1	1951.1	2103.0	2249.1	2378.0	2469.7	2555.7	2621.6
50°	1091.6	1226.3	1395.3	1570.1	1733.4	1893.8	2048.5	2168.9	2260.6	2329.3	2378.0
52.5°	845.1	1005.6	1177.5	1360.9	1535.7	1710.4	1853.7	1965.4	2040.0	2100.1	2137.3
55°	630.3	788.0	971.3	1160.3	1338.0	1507.1	1641.7	1739.1	1805.0	1839.3	1859.4
57.5°	455.6	598.8	782.1	971.3	1131.6	1292.2	1401.0	1489.8	1527.0	1547.1	1555.7
60°	332.4	464.2	627.4	790.8	942.6	1071.6	1166.1	1226.3	1255.0	1266.4	1263.5
62.5°	243.6	358.2	498.5	636.1	759.3	865.2	939.7	979.9	994.2	999.9	991.3
65°	186.2	275.0	395.4	501.4	595.9	673.3	727.8	753.5	762.1	759.3	753.5
67.5°	137.5	206.3	295.2	375.3	444.1	504.2	532.9	555.9	561.5	553.0	544.4
70°	97.4	151.9	214.9	269.4	320.8	355.2	386.7	389.7	389.7	386.7	381.1
72.5°	68.7	106.0	146.1	183.4	214.9	240.7	252.1	260.7	257.8	254.9	249.3
75°	45.8	65.9	106.0	114.6	143.3	151.9	163.3	163.3	166.1	157.6	157.6
77.5°	28.7	45.8	63.0	74.5	86.0	97.4	103.1	103.1	106.0	103.1	103.1
80°	17.2	28.7	34.3	51.6	51.6	60.2	63.0	65.9	60.2	68.7	60.2
82.5°	11.4	17.2	25.8	25.8	31.5	37.2	37.2	40.1	40.1	37.2	37.2
85°	8.6	11.4	14.3	17.2	17.2	20.1	17.2	17.2	20.1	22.9	20.1
87.5°	2.9	5.7	2.9	5.7	5.7	11.4	8.6	8.6	8.6	11.4	11.4
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: P248538

CATALOG NUMBER: LSR8B120D010 EC8B120930 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	5397.8	5397.8	5397.8	5397.8
2.5°	5403.6	5406.5	5403.6	5403.6
5°	5429.3	5426.5	5429.3	5423.6
7.5°	5449.4	5449.4	5446.5	5446.5
10°	5449.4	5438.0	5438.0	5438.0
12.5°	5406.5	5392.1	5383.5	5377.8
15°	5331.9	5306.1	5294.7	5291.8
17.5°	5234.5	5211.6	5197.3	5188.7
20°	5122.7	5099.9	5082.7	5085.5
22.5°	5025.3	4999.7	4988.1	4982.4
25°	4927.9	4896.4	4887.9	4882.2
27.5°	4770.4	4753.2	4744.6	4736.0
30°	4529.7	4521.1	4506.8	4526.8
32.5°	4251.8	4237.5	4226.1	4234.7
35°	3945.2	3936.6	3945.2	3939.5
37.5°	3664.4	3673.1	3684.5	3690.2
40°	3443.8	3475.3	3486.9	3492.5
42.5°	3223.2	3260.4	3283.4	3297.6
45°	2951.0	2988.2	3014.0	3031.3
47.5°	2670.2	2701.8	2727.5	2724.7
50°	2415.3	2432.5	2443.9	2455.4
52.5°	2157.4	2157.4	2160.3	2160.3
55°	1865.2	1859.4	1856.6	1859.4
57.5°	1544.3	1538.6	1535.7	1527.0
60°	1252.0	1234.9	1223.3	1223.3
62.5°	979.9	959.8	951.3	948.4
65°	736.3	733.5	716.2	713.4
67.5°	532.9	521.5	510.1	512.9
70°	375.3	358.2	358.2	352.4
72.5°	243.6	235.0	232.0	232.0
75°	151.9	151.9	146.1	157.6
77.5°	100.2	100.2	97.4	100.2
80°	60.2	60.2	60.2	57.3
82.5°	37.2	40.1	37.2	37.2
85°	20.1	22.9	17.2	25.8
87.5°	11.4	14.3	11.4	14.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)