

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: P249501

Luminaire Tested: **LSR8B120D010 EC8B120927 8LBDW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249501
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 EC8B120927 8LBDW0B
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8667.0 lumens
Efficiency: N/A
Efficacy: 73.3 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

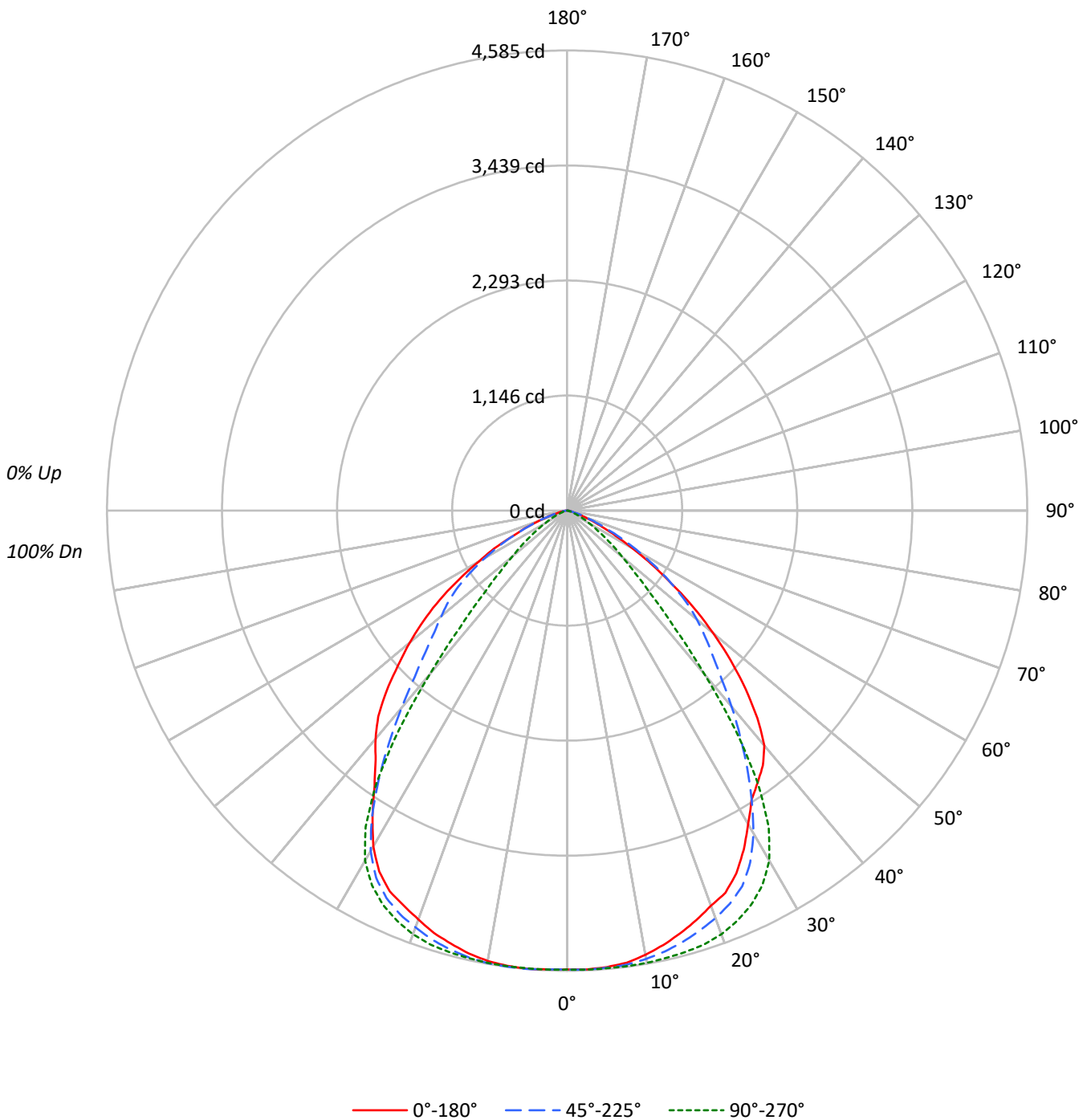
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	436.4	5.0
10°-20°	1267.4	14.6
20°-30°	1923.7	22.2
30°-40°	2020.5	23.3
40°-50°	1514.8	17.5
50°-60°	971.9	11.2
60°-70°	415.8	4.8
70°-80°	98.2	1.1
80°-90°	18.3	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°	3627.5	41.9
0°-40°	5648.0	65.2
0°-60°	8134.7	93.9
0°-90°	8667.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8667.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4573	4573	4573	4573	4573	
5°	4566	4573	4578	4585	4583	434
15°	4359	4450	4553	4524	4467	1230
25°	3989	4129	4337	4259	4185	1822
35°	3309	3125	3311	3272	3346	2077
45°	2514	2054	1181	1996	2548	1925
55°	1272	1272	439	1326	1549	1153
65°	383	452	140	582	592	409
75°	59	69	20	118	115	86
85°	20	12	10	20	27	21
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°	4572.9	4572.9	4572.9	4572.9	4572.9	4572.9	4572.9	4572.9	4572.9	4572.9	4572.9
2.5°	4575.4	4580.2	4577.8	4577.8	4575.4	4577.8	4577.8	4582.7	4582.7	4577.8	4575.4
5°	4565.5	4570.4	4570.4	4565.5	4565.5	4577.8	4570.4	4575.4	4575.4	4572.9	4572.9
7.5°	4543.4	4543.4	4553.2	4545.9	4545.9	4553.2	4550.7	4555.7	4560.6	4563.1	4563.1
10°	4494.4	4499.2	4501.7	4501.7	4504.2	4511.5	4516.4	4526.3	4531.2	4536.1	4538.5
12.5°	4433.0	4440.4	4442.7	4440.4	4447.7	4457.5	4469.8	4482.1	4489.4	4499.2	4506.6
15°	4359.3	4359.3	4364.2	4371.6	4376.6	4391.2	4403.5	4418.2	4437.9	4450.2	4462.4
17.5°	4278.4	4283.3	4290.6	4290.6	4300.4	4325.0	4332.4	4354.4	4376.6	4388.8	4413.4
20°	4190.0	4194.9	4202.2	4207.2	4219.4	4239.1	4253.7	4273.4	4298.0	4320.1	4344.6
22.5°	4121.2	4111.4	4116.3	4121.2	4133.6	4150.7	4167.9	4192.4	4217.0	4239.1	4263.6
25°	3988.7	3991.2	3998.5	4003.4	4018.2	4032.9	4052.5	4082.0	4104.0	4128.6	4155.6
27.5°	3809.5	3812.0	3824.2	3824.2	3836.5	3861.0	3873.3	3897.9	3927.4	3951.9	3983.8
30°	3605.8	3610.7	3610.7	3620.5	3627.8	3640.2	3652.4	3677.0	3691.7	3713.7	3758.0
32.5°	3419.2	3424.2	3421.7	3419.2	3411.9	3409.4	3407.0	3411.9	3416.7	3424.2	3441.3
35°	3308.8	3296.5	3286.7	3269.5	3249.9	3225.4	3203.2	3173.7	3146.7	3124.7	3100.2
37.5°	3203.2	3200.7	3186.0	3161.5	3122.2	3078.0	3026.5	2962.7	2898.8	2830.2	2763.9
40°	3056.0	3048.5	3036.3	3002.0	2957.7	2903.7	2835.0	2756.5	2653.4	2547.9	2439.9
42.5°	2805.5	2808.0	2793.3	2766.3	2724.6	2673.0	2601.8	2516.0	2405.5	2280.3	2140.4
45°	2513.5	2513.5	2508.5	2486.5	2457.0	2415.3	2361.3	2290.2	2182.2	2054.5	1904.7
47.5°	2209.2	2211.5	2204.2	2199.4	2187.0	2160.0	2120.7	2066.7	1990.7	1868.0	1718.2
50°	1899.9	1899.9	1912.2	1909.7	1909.7	1899.9	1882.7	1850.7	1784.5	1686.3	1546.4
52.5°	1590.5	1595.5	1602.9	1612.7	1625.0	1644.5	1625.0	1610.2	1568.5	1492.3	1372.2
55°	1271.5	1276.4	1288.7	1305.8	1320.6	1340.2	1345.0	1345.0	1323.0	1271.5	1180.7
57.5°	999.0	991.7	1001.5	1016.2	1035.9	1055.5	1070.2	1087.4	1085.0	1050.5	977.0
60°	751.1	753.5	760.9	775.7	790.4	807.5	827.2	842.0	849.3	832.2	785.5
62.5°	547.4	547.4	557.2	571.8	579.3	603.8	616.1	623.5	630.8	628.3	598.9
65°	383.0	387.8	392.7	400.2	407.5	422.2	429.5	444.3	449.2	451.7	429.5
67.5°	270.0	262.7	267.5	272.5	279.8	289.7	304.4	304.4	311.7	311.7	297.0
70°	171.8	171.8	174.3	181.6	186.5	189.0	194.0	198.8	206.2	203.7	203.7
72.5°	115.4	113.0	115.4	117.8	120.3	127.6	127.6	130.0	135.0	137.5	127.6
75°	59.0	61.4	66.3	63.8	71.2	66.3	68.7	76.0	73.7	68.7	68.7
77.5°	49.1	49.1	49.1	46.7	51.5	51.5	49.1	54.0	51.5	51.5	49.1
80°	34.3	36.8	34.3	31.8	34.3	31.8	31.8	31.8	31.8	31.8	29.5
82.5°	27.0	22.0	24.5	22.0	24.5	24.5	22.0	19.7	19.7	22.0	19.7
85°	19.7	14.7	17.2	17.2	14.7	14.7	14.7	14.7	14.7	12.3	12.3
87.5°	12.3	7.4	7.4	7.4	9.8	9.8	9.8	7.4	9.8	9.8	5.0
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°	4572.9	4572.9	4572.9	4572.9	4572.9	4572.9	4572.9	4572.9	4572.9	4572.9	4572.9
2.5°	4580.2	4577.8	4582.7	4580.2	4580.2	4577.8	4580.2	4577.8	4582.7	4572.9	4575.4
5°	4580.2	4575.4	4577.8	4580.2	4582.7	4577.8	4577.8	4577.8	4582.7	4577.8	4580.2
7.5°	4570.4	4568.0	4575.4	4580.2	4577.8	4575.4	4580.2	4577.8	4582.7	4580.2	4585.2
10°	4550.7	4553.2	4558.2	4565.5	4568.0	4570.4	4575.4	4575.4	4582.7	4572.9	4577.8
12.5°	4521.4	4531.2	4543.4	4548.3	4558.2	4558.2	4563.1	4565.5	4570.4	4568.0	4575.4
15°	4484.6	4496.7	4511.5	4523.8	4536.1	4543.4	4550.7	4553.2	4560.6	4553.2	4555.7
17.5°	4440.4	4455.0	4477.2	4491.9	4511.5	4518.9	4528.7	4533.6	4541.0	4536.1	4538.5
20°	4379.0	4396.2	4420.7	4442.7	4455.0	4472.2	4484.6	4491.9	4496.7	4491.9	4494.4
22.5°	4293.1	4317.6	4349.5	4366.7	4391.2	4406.0	4408.4	4425.6	4437.9	4425.6	4430.6
25°	4192.4	4217.0	4241.5	4278.4	4300.4	4317.6	4334.8	4337.2	4349.5	4347.0	4344.6
27.5°	4025.5	4057.4	4099.2	4128.6	4158.0	4185.1	4204.7	4209.5	4221.9	4217.0	4219.4
30°	3797.2	3831.6	3870.9	3917.5	3959.2	3986.2	4010.7	4028.0	4040.2	4032.9	4030.4
32.5°	3473.2	3507.6	3549.4	3596.0	3645.1	3684.3	3713.7	3735.9	3750.6	3745.7	3733.4
35°	3102.6	3112.4	3139.4	3176.2	3218.0	3259.7	3286.7	3311.2	3328.4	3333.3	3333.3
37.5°	2722.2	2690.2	2670.6	2670.6	2695.2	2712.3	2736.9	2751.5	2778.6	2788.4	2795.7
40°	2354.0	2280.3	2211.5	2160.0	2125.7	2123.2	2123.2	2130.5	2155.2	2187.0	2216.5
42.5°	2025.0	1907.2	1801.7	1706.0	1637.2	1598.0	1580.7	1583.2	1602.9	1632.3	1681.4
45°	1762.4	1615.2	1482.5	1367.2	1274.0	1212.5	1183.2	1180.7	1195.3	1229.7	1283.7
47.5°	1558.7	1401.5	1251.8	1119.3	1018.7	952.3	918.0	908.2	918.0	950.0	1013.7
50°	1389.3	1227.3	1072.7	935.2	827.2	758.5	726.5	714.3	726.5	753.5	817.3
52.5°	1232.2	1065.3	920.5	787.9	672.5	613.6	579.3	571.8	579.3	611.2	662.7
55°	1050.5	908.2	765.8	633.3	532.7	473.7	446.7	439.4	446.7	476.2	530.2
57.5°	871.4	748.7	623.5	503.2	417.3	365.7	341.2	331.3	348.5	368.2	432.0
60°	704.5	606.3	500.7	395.2	324.0	277.3	257.7	255.3	260.2	284.7	328.8
62.5°	552.3	471.3	387.8	302.0	243.0	223.3	198.8	196.4	201.3	216.0	250.4
65°	397.7	346.2	282.3	221.0	174.3	147.3	137.5	140.0	144.8	154.7	186.5
67.5°	277.3	240.5	196.4	154.7	120.3	108.0	98.2	95.7	98.2	115.4	132.5
70°	186.5	164.5	132.5	117.8	83.5	66.3	68.7	61.4	71.2	71.2	85.8
72.5°	122.7	108.0	88.3	68.7	59.0	46.7	46.7	44.2	49.1	51.5	63.8
75°	63.8	49.1	49.1	34.3	24.5	12.3	22.0	19.7	17.2	19.7	24.5
77.5°	44.2	36.8	34.3	27.0	24.5	19.7	19.7	19.7	19.7	22.0	24.5
80°	27.0	27.0	19.7	17.2	14.7	12.3	14.7	14.7	14.7	14.7	17.2
82.5°	17.2	14.7	14.7	12.3	12.3	9.8	9.8	9.8	9.8	9.8	14.7
85°	14.7	9.8	9.8	7.4	9.8	17.2	7.4	9.8	9.8	9.8	7.4
87.5°	5.0	7.4	7.4	7.4	5.0	2.5	5.0	7.4	7.4	12.3	9.8
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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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4572.9	4572.9	4572.9	4572.9	4572.9	4572.9	4572.9	4572.9	4572.9	4572.9	4572.9
2.5°	4580.2	4582.7	4582.7	4580.2	4580.2	4575.4	4585.2	4577.8	4580.2	4590.1	4582.7
5°	4585.2	4587.6	4587.6	4585.2	4585.2	4585.2	4587.6	4587.6	4585.2	4582.7	4587.6
7.5°	4595.0	4592.5	4592.5	4587.6	4587.6	4582.7	4587.6	4580.2	4585.2	4580.2	4587.6
10°	4582.7	4585.2	4582.7	4580.2	4580.2	4577.8	4577.8	4570.4	4572.9	4565.5	4570.4
12.5°	4575.4	4572.9	4572.9	4568.0	4563.1	4558.2	4555.7	4548.3	4548.3	4531.2	4538.5
15°	4555.7	4558.2	4550.7	4541.0	4536.1	4523.8	4518.9	4509.0	4499.2	4487.0	4489.4
17.5°	4538.5	4531.2	4521.4	4511.5	4491.9	4482.1	4472.2	4457.5	4452.6	4437.9	4433.0
20°	4487.0	4482.1	4469.8	4452.6	4440.4	4418.2	4408.4	4393.7	4381.4	4366.7	4359.3
22.5°	4420.7	4415.7	4401.0	4383.9	4364.2	4354.4	4344.6	4317.6	4305.3	4290.6	4288.2
25°	4337.2	4329.9	4315.2	4295.5	4285.7	4258.7	4248.9	4229.2	4224.4	4209.5	4207.2
27.5°	4209.5	4199.7	4182.6	4158.0	4140.9	4123.7	4113.9	4099.2	4094.2	4079.5	4077.1
30°	4018.2	4005.9	3971.5	3961.7	3932.2	3915.0	3915.0	3895.4	3897.9	3888.1	3888.1
32.5°	3716.2	3696.6	3669.6	3650.0	3630.3	3620.5	3620.5	3613.2	3618.0	3618.0	3623.0
35°	3316.2	3289.2	3274.4	3262.2	3262.2	3272.0	3301.4	3308.8	3323.5	3335.7	3345.6
37.5°	2803.0	2800.7	2817.9	2832.6	2869.4	2911.2	2962.7	3006.9	3048.5	3078.0	3107.5
40°	2248.4	2309.7	2358.8	2427.6	2484.0	2565.0	2658.3	2734.4	2805.5	2857.2	2911.2
42.5°	1755.0	1833.5	1936.7	2037.3	2138.0	2248.4	2371.2	2476.7	2570.0	2641.2	2697.5
45°	1367.2	1475.2	1600.4	1728.0	1858.2	1995.6	2123.2	2231.2	2329.4	2403.0	2459.5
47.5°	1102.0	1220.0	1362.3	1502.2	1649.5	1794.3	1936.7	2030.0	2111.0	2169.8	2221.4
50°	910.6	1035.9	1185.5	1345.0	1492.3	1637.2	1760.0	1850.7	1917.0	1968.5	2000.5
52.5°	760.9	893.5	1053.0	1212.5	1359.8	1492.3	1602.9	1671.5	1725.5	1762.4	1791.8
55°	628.3	756.0	905.7	1055.5	1200.3	1325.5	1416.3	1467.9	1509.5	1531.7	1548.8
57.5°	513.0	630.8	768.3	905.7	1031.0	1134.0	1205.2	1256.7	1276.4	1293.5	1291.0
60°	402.5	513.0	638.2	756.0	864.0	947.5	999.0	1028.5	1043.2	1050.5	1045.7
62.5°	316.7	417.3	513.0	616.1	694.7	765.8	814.9	814.9	822.3	824.7	832.2
65°	235.6	311.7	395.2	471.3	535.1	581.7	608.7	616.1	625.9	623.5	618.5
67.5°	174.3	230.7	292.0	348.5	392.7	422.2	441.8	459.0	456.5	451.7	449.2
70°	120.3	157.2	211.2	245.5	277.3	306.8	311.7	314.2	316.7	319.0	314.2
72.5°	83.5	110.5	140.0	169.3	189.0	201.3	213.5	216.0	216.0	216.0	213.5
75°	41.7	56.5	83.5	95.7	113.0	117.8	127.6	127.6	135.0	125.2	122.7
77.5°	36.8	44.2	59.0	68.7	76.0	83.5	85.8	93.3	90.8	85.8	88.3
80°	22.0	27.0	36.8	41.7	51.5	54.0	56.5	59.0	56.5	59.0	59.0
82.5°	17.2	19.7	24.5	24.5	31.8	31.8	34.3	34.3	36.8	36.8	36.8
85°	9.8	17.2	14.7	29.5	19.7	19.7	24.5	29.5	24.5	24.5	29.5
87.5°	9.8	9.8	7.4	9.8	9.8	9.8	12.3	14.7	14.7	17.2	14.7
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: P249501

CATALOG NUMBER: LSR8B120D010 EC8B120927 8LBDW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	4572.9	4572.9	4572.9	4572.9
2.5°	4580.2	4585.2	4577.8	4575.4
5°	4587.6	4587.6	4582.7	4582.7
7.5°	4587.6	4587.6	4580.2	4575.4
10°	4568.0	4568.0	4560.6	4555.7
12.5°	4531.2	4531.2	4528.7	4521.4
15°	4484.6	4484.6	4474.7	4467.4
17.5°	4420.7	4425.6	4413.4	4413.4
20°	4352.0	4349.5	4339.7	4334.8
22.5°	4280.8	4275.9	4273.4	4258.7
25°	4204.7	4199.7	4192.4	4185.1
27.5°	4074.6	4072.2	4064.7	4055.0
30°	3875.7	3873.3	3863.5	3863.5
32.5°	3618.0	3615.6	3605.8	3608.2
35°	3350.5	3360.4	3355.4	3345.6
37.5°	3127.2	3134.5	3139.4	3134.5
40°	2940.5	2962.7	2965.2	2970.1
42.5°	2741.7	2771.2	2781.1	2786.0
45°	2503.7	2530.7	2552.7	2547.9
47.5°	2260.7	2280.3	2300.0	2285.2
50°	2027.5	2039.7	2047.2	2047.2
52.5°	1806.6	1806.6	1804.2	1806.6
55°	1553.7	1553.7	1544.0	1548.8
57.5°	1288.7	1293.5	1286.2	1274.0
60°	1043.2	1031.0	1026.0	1018.7
62.5°	812.5	812.5	795.3	817.3
65°	608.7	601.4	594.0	591.5
67.5°	441.8	439.4	432.0	429.5
70°	311.7	302.0	299.5	294.5
72.5°	208.7	208.7	203.7	203.7
75°	127.6	115.4	113.0	115.4
77.5°	88.3	85.8	85.8	83.5
80°	59.0	56.5	61.4	54.0
82.5°	36.8	39.3	36.8	39.3
85°	24.5	29.5	27.0	27.0
87.5°	14.7	14.7	14.7	14.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)