

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: P250256

Luminaire Tested: **LSR8B120D010 EC8B120935 8LBSW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250256  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13955)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B120D010 EC8B120935 8LBSW0WH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10719.0 lumens  
Efficiency: N/A  
Efficacy: 90.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.15  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

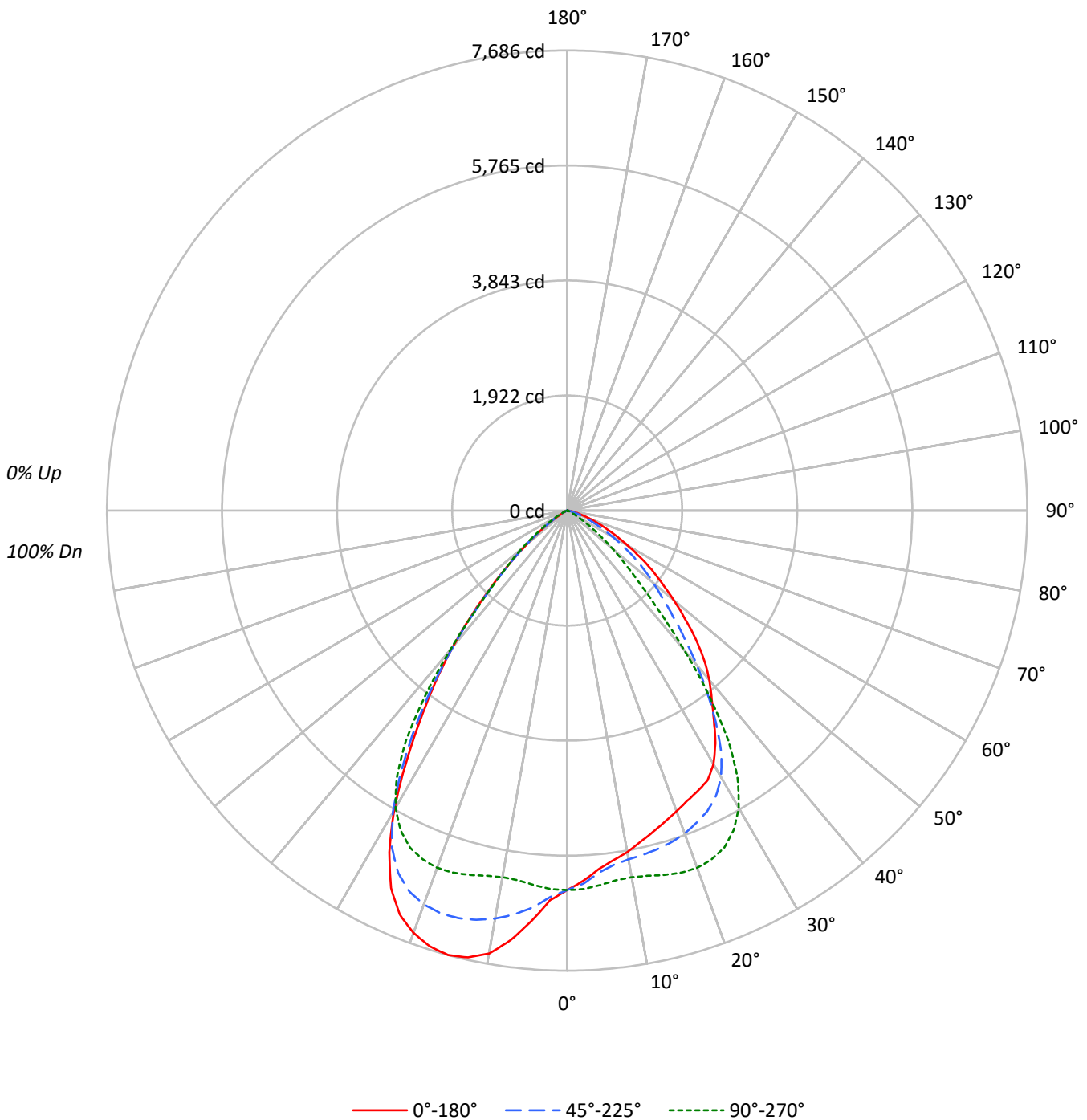
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	109	106	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82					82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73					73			
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66					66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60					60			
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54					54			
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49					49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45					45			
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42					42			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38					38			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	195447	195447	195447
5°	186201	194358	213063
10°	181397	194657	235188
15°	177284	201109	245359
20°	175332	208377	246282
25°	175745	211320	236713
30°	174113	204066	205857
35°	160887	176604	161106
40°	148674	122440	119466
45°	132389	73883	76333
50°	111393	47599	43195
55°	92674	26112	19747
60°	72336	11323	6210
65°	53381	5618	3021
70°	37119	3471	1334
75°	22589	715	0
80°	16302	1065	0
85°	10473	1026	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	609.3	5.7
10°-20°	1823.6	17.0
20°-30°	2792.7	26.1
30°-40°	2737.7	25.5
40°-50°	1648.7	15.4
50°-60°	758.8	7.1
60°-70°	266.6	2.5
70°-80°	69.7	0.7
80°-90°	11.9	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°	5225.6	48.8
0°-40°	7963.3	74.3
0°-60°	10370.8	96.8
0°-90°	10719.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10719.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	6338	6338	6338	6338	6338	
5°	6015	6072	6279	6655	6883	568
15°	5553	5852	6300	7046	7686	1569
25°	5165	5539	6211	6679	6957	2379
35°	4274	4333	4691	4422	4280	2677
45°	3036	2500	1694	1706	1750	2328
55°	1724	1365	486	382	367	1538
65°	732	506	77	38	41	745
75°	190	110	6	0	0	230
85°	30	15	3	0	0	41
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°	6338.2	6338.2	6338.2	6338.2	6338.2	6338.2	6338.2	6338.2	6338.2	6338.2	6338.2
2.5°	6190.0	6196.0	6196.0	6196.0	6207.8	6210.9	6207.8	6210.9	6216.7	6237.5	6246.4
5°	6015.4	6006.5	6012.4	6009.4	6024.3	6033.2	6027.2	6036.1	6056.8	6071.7	6086.4
7.5°	5891.0	5891.0	5891.0	5896.9	5905.8	5923.6	5920.6	5926.5	5947.2	5967.9	5988.7
10°	5793.2	5790.3	5790.3	5805.1	5816.9	5837.6	5843.6	5861.4	5888.0	5914.7	5938.3
12.5°	5665.8	5668.9	5683.6	5698.5	5725.1	5757.6	5775.4	5799.2	5840.7	5885.0	5911.7
15°	5553.3	5556.2	5568.2	5597.7	5630.4	5668.9	5707.3	5745.8	5796.2	5852.5	5899.9
17.5°	5443.7	5446.6	5455.5	5488.2	5529.7	5580.0	5624.4	5674.7	5740.0	5805.1	5864.3
20°	5343.0	5340.1	5354.8	5384.5	5437.9	5485.2	5529.7	5588.9	5660.0	5740.0	5808.0
22.5°	5245.3	5245.3	5260.1	5289.8	5337.2	5384.5	5431.9	5494.1	5565.1	5642.2	5722.2
25°	5165.3	5162.4	5183.1	5198.0	5233.4	5280.9	5331.2	5381.5	5452.6	5538.6	5615.5
27.5°	5079.5	5076.5	5079.5	5097.3	5129.8	5165.3	5203.8	5248.3	5307.5	5378.6	5452.6
30°	4889.9	4892.8	4892.8	4907.7	4925.5	4963.9	4984.6	5029.1	5082.4	5141.6	5206.9
32.5°	4608.5	4611.4	4611.4	4617.4	4632.2	4650.0	4667.8	4700.3	4741.8	4792.1	4851.4
35°	4273.9	4273.9	4270.8	4273.9	4282.8	4282.8	4297.5	4282.8	4303.5	4333.1	4377.5
37.5°	3965.8	3959.8	3954.0	3948.0	3939.1	3924.4	3903.6	3868.0	3859.1	3847.3	3850.2
40°	3693.4	3690.4	3672.6	3657.8	3628.1	3592.7	3542.3	3480.1	3429.8	3370.5	3320.2
42.5°	3391.3	3388.2	3373.5	3346.8	3314.2	3260.9	3181.0	3098.1	2997.4	2908.5	2816.7
45°	3035.8	3044.7	3024.0	2994.3	2955.8	2905.5	2816.7	2715.9	2615.2	2499.7	2384.2
47.5°	2665.5	2662.6	2647.9	2630.1	2597.5	2547.2	2487.9	2378.3	2271.7	2165.1	2046.6
50°	2322.0	2310.2	2304.2	2286.5	2265.8	2224.4	2162.1	2073.2	1978.5	1877.8	1768.2
52.5°	1996.3	1996.3	1981.4	1969.6	1951.8	1919.2	1865.9	1794.9	1714.9	1620.0	1504.6
55°	1723.8	1717.8	1703.1	1688.2	1670.4	1649.7	1602.4	1543.1	1457.2	1365.4	1264.7
57.5°	1433.5	1430.5	1424.6	1406.8	1397.9	1377.2	1323.9	1264.7	1190.7	1110.7	1027.7
60°	1172.9	1161.1	1149.1	1137.3	1122.5	1101.8	1066.2	1015.9	953.7	882.6	799.7
62.5°	938.9	956.6	921.1	921.1	891.5	873.7	841.2	811.5	746.3	681.2	610.2
65°	731.6	731.6	716.7	704.9	687.1	666.4	633.8	604.2	556.8	506.4	456.1
67.5°	559.8	556.8	542.0	530.2	515.3	503.5	479.8	444.2	408.8	367.3	325.7
70°	411.7	408.8	405.7	385.0	373.2	358.4	340.6	317.0	290.3	260.6	222.1
72.5°	296.1	296.1	287.3	278.4	266.6	254.7	237.0	222.1	198.5	177.7	151.0
75°	189.6	186.6	186.6	171.8	171.8	154.0	142.1	133.2	121.4	109.6	85.9
77.5°	136.3	133.2	130.3	124.3	118.5	112.5	103.6	91.8	82.9	71.1	62.2
80°	91.8	85.9	82.9	82.9	74.0	71.1	74.0	56.3	53.3	44.4	38.5
82.5°	56.3	56.3	53.3	53.3	50.3	47.4	38.5	38.5	35.6	32.5	26.7
85°	29.6	38.5	26.7	29.6	26.7	29.6	26.7	20.7	17.8	14.8	14.8
87.5°	17.8	11.8	11.8	17.8	14.8	11.8	11.8	11.8	8.9	6.0	6.0
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°	6338.2	6338.2	6338.2	6338.2	6338.2	6338.2	6338.2	6338.2	6338.2	6338.2	6338.2
2.5°	6240.5	6261.2	6258.2	6284.9	6293.8	6314.5	6314.5	6329.3	6338.2	6358.9	6376.7
5°	6092.4	6124.9	6133.8	6166.4	6193.1	6225.6	6246.4	6278.9	6308.5	6353.0	6394.5
7.5°	6000.6	6027.2	6045.0	6083.5	6113.1	6148.6	6184.2	6228.6	6270.0	6323.4	6382.7
10°	5956.1	5991.7	6018.3	6056.8	6092.4	6130.9	6166.4	6216.7	6264.2	6332.3	6397.4
12.5°	5944.3	5985.7	6018.3	6071.7	6107.1	6148.6	6190.0	6246.4	6296.7	6367.8	6441.9
15°	5944.3	6000.6	6045.0	6104.2	6145.7	6198.9	6243.4	6299.6	6356.0	6430.0	6501.0
17.5°	5932.5	6000.6	6056.8	6124.9	6178.2	6231.6	6287.8	6341.2	6400.3	6471.5	6551.4
20°	5885.0	5971.0	6039.0	6119.0	6175.3	6234.5	6290.9	6350.0	6412.3	6486.3	6554.4
22.5°	5802.1	5902.8	5979.9	6065.7	6130.9	6190.0	6246.4	6305.6	6373.8	6444.8	6515.9
25°	5692.5	5787.3	5870.3	5959.0	6024.3	6089.4	6142.7	6210.9	6273.1	6341.2	6397.4
27.5°	5526.6	5627.3	5707.3	5799.2	5858.3	5920.6	5965.0	6021.3	6080.6	6136.8	6181.3
30°	5277.9	5369.7	5452.6	5535.5	5594.8	5639.3	5686.6	5731.1	5769.6	5808.0	5846.5
32.5°	4913.5	4996.6	5076.5	5153.5	5200.9	5239.4	5274.9	5301.6	5322.3	5343.0	5346.0
35°	4413.1	4481.1	4531.5	4599.6	4644.1	4679.6	4679.6	4691.4	4688.5	4679.6	4670.7
37.5°	3853.3	3879.9	3900.6	3927.3	3930.2	3930.2	3912.5	3897.7	3874.0	3868.0	3850.2
40°	3269.8	3234.2	3207.5	3172.1	3151.3	3106.8	3068.4	3041.7	3003.2	2997.4	2991.4
42.5°	2715.9	2633.0	2559.0	2496.8	2425.7	2363.4	2307.2	2265.8	2236.2	2233.1	2236.2
45°	2265.8	2171.0	2061.4	1975.5	1895.6	1818.5	1744.5	1694.2	1667.5	1661.5	1667.5
47.5°	1925.2	1815.6	1708.9	1611.1	1525.3	1439.4	1365.4	1297.2	1264.7	1255.8	1252.9
50°	1655.6	1543.1	1430.5	1329.8	1235.1	1149.1	1057.3	992.2	950.8	935.9	924.1
52.5°	1392.1	1291.4	1175.8	1072.2	977.3	876.6	781.9	707.8	666.4	648.7	636.7
55°	1161.1	1060.4	953.7	853.0	752.3	651.6	556.8	485.7	441.3	420.6	405.7
57.5°	927.0	832.3	740.5	639.8	556.8	459.1	364.3	302.1	263.6	239.9	228.1
60°	716.7	642.7	562.7	479.8	399.9	319.9	242.8	183.6	154.0	136.3	121.4
62.5°	542.0	479.8	426.4	355.4	293.2	225.0	165.9	118.5	91.8	77.0	71.1
65°	391.0	343.5	296.1	251.7	207.4	157.0	112.5	77.0	53.3	44.4	41.4
67.5°	278.4	239.9	204.3	174.7	142.1	112.5	80.0	53.3	41.4	35.6	32.5
70°	195.4	165.9	142.1	115.6	94.7	74.0	62.2	38.5	23.7	26.7	20.7
72.5°	130.3	109.6	97.8	80.0	65.1	53.3	38.5	26.7	26.7	20.7	17.8
75°	71.1	65.1	50.3	38.5	32.5	29.6	11.8	6.0	2.9	8.9	2.9
77.5°	50.3	44.4	38.5	32.5	26.7	20.7	11.8	11.8	8.9	11.8	6.0
80°	32.5	26.7	23.7	23.7	14.8	8.9	6.0	6.0	8.9	2.9	2.9
82.5°	20.7	17.8	14.8	14.8	14.8	8.9	8.9	8.9	8.9	6.0	6.0
85°	11.8	8.9	6.0	6.0	2.9	6.0	0.0	2.9	2.9	0.0	0.0
87.5°	6.0	2.9	2.9	2.9	2.9	0.0	0.0	2.9	0.0	2.9	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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	6338.2	6338.2	6338.2	6338.2	6338.2	6338.2	6338.2	6338.2	6338.2	6338.2	6338.2
2.5°	6388.5	6400.3	6415.2	6427.0	6453.7	6459.6	6471.5	6483.4	6492.3	6501.0	6504.1
5°	6430.0	6474.5	6515.9	6560.3	6616.6	6655.1	6699.5	6738.0	6776.6	6809.1	6832.8
7.5°	6441.9	6509.9	6572.2	6649.2	6732.1	6803.3	6877.2	6951.2	7028.3	7087.5	7137.9
10°	6465.6	6548.5	6628.4	6720.2	6826.9	6921.6	7013.4	7111.2	7209.0	7291.9	7366.0
12.5°	6507.0	6598.8	6684.8	6785.5	6895.0	7001.6	7102.3	7211.9	7315.6	7407.4	7490.3
15°	6575.2	6661.0	6744.0	6838.7	6948.3	7046.1	7146.8	7253.3	7357.1	7451.8	7528.9
17.5°	6619.5	6699.5	6782.4	6868.3	6960.1	7049.0	7143.7	7238.6	7333.3	7419.3	7490.3
20°	6619.5	6696.6	6758.8	6835.8	6921.6	6998.7	7075.7	7158.6	7241.5	7312.6	7380.7
22.5°	6566.3	6640.3	6687.7	6746.9	6820.9	6886.1	6927.6	7019.4	7081.6	7143.7	7194.1
25°	6441.9	6495.2	6533.7	6575.2	6634.4	6678.8	6714.4	6767.7	6829.8	6853.6	6889.1
27.5°	6216.7	6255.3	6276.0	6284.9	6314.5	6338.2	6344.1	6367.8	6394.5	6400.3	6415.2
30°	5861.4	5864.3	5855.4	5852.5	5837.6	5819.9	5816.9	5814.0	5802.1	5790.3	5793.2
32.5°	5325.2	5310.5	5274.9	5236.5	5198.0	5156.5	5132.7	5103.1	5085.3	5067.6	5046.9
35°	4632.2	4596.7	4546.3	4498.9	4454.6	4421.9	4368.6	4350.8	4333.1	4309.4	4303.5
37.5°	3817.7	3797.0	3749.6	3714.1	3690.4	3675.6	3648.9	3631.2	3631.2	3622.3	3616.3
40°	2976.5	2970.7	2952.9	2961.8	2950.0	2955.8	2952.9	2946.9	2961.8	2961.8	2967.8
42.5°	2233.1	2236.2	2245.1	2250.9	2268.7	2271.7	2286.5	2286.5	2295.4	2304.2	2310.2
45°	1661.5	1673.4	1673.4	1685.3	1703.1	1706.0	1711.8	1714.9	1720.7	1735.6	1741.5
47.5°	1246.9	1249.8	1249.8	1252.9	1258.7	1264.7	1261.8	1264.7	1273.6	1267.6	1273.6
50°	921.1	924.1	915.2	906.3	915.2	915.2	912.2	903.3	912.2	900.4	906.3
52.5°	628.0	624.9	616.0	619.1	613.1	610.2	610.2	604.2	604.2	604.2	592.4
55°	396.9	396.9	391.0	391.0	388.0	382.1	379.1	376.1	373.2	370.2	370.2
57.5°	222.1	225.0	216.3	213.2	216.3	213.2	207.4	207.4	207.4	198.5	204.3
60°	121.4	118.5	115.6	112.5	109.6	112.5	112.5	106.7	106.7	106.7	109.6
62.5°	65.1	65.1	62.2	62.2	59.2	59.2	65.1	56.3	59.2	56.3	59.2
65°	35.6	44.4	32.5	32.5	41.4	38.5	35.6	35.6	38.5	32.5	35.6
67.5°	38.5	26.7	23.7	26.7	23.7	23.7	23.7	29.6	26.7	20.7	26.7
70°	17.8	20.7	20.7	14.8	23.7	11.8	20.7	11.8	17.8	14.8	17.8
72.5°	17.8	17.8	17.8	11.8	17.8	11.8	14.8	14.8	11.8	11.8	17.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	6.0	6.0	2.9	2.9	2.9	2.9	6.0	6.0	6.0	0.0	2.9
80°	6.0	6.0	0.0	2.9	0.0	0.0	2.9	0.0	2.9	0.0	6.0
82.5°	2.9	6.0	2.9	2.9	6.0	6.0	6.0	2.9	2.9	2.9	2.9
85°	0.0	2.9	0.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0	2.9
87.5°	0.0	2.9	0.0	0.0	0.0	0.0	2.9	2.9	0.0	0.0	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





TEST NUMBER: P250256

CATALOG NUMBER: LSR8B120D010 EC8B120935 8LBSW0WH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	6338.2	6338.2	6338.2	6338.2
2.5°	6507.0	6509.9	6515.9	6513.0
5°	6850.6	6874.3	6886.1	6883.2
7.5°	7173.4	7214.9	7238.6	7238.6
10°	7422.2	7469.6	7505.1	7511.1
12.5°	7555.4	7608.8	7656.2	7644.3
15°	7594.0	7647.3	7694.6	7685.7
17.5°	7549.6	7602.9	7638.4	7632.5
20°	7428.2	7472.5	7508.1	7505.1
22.5°	7238.6	7277.1	7306.7	7303.7
25°	6918.7	6945.4	6969.0	6957.2
27.5°	6427.0	6435.9	6450.7	6433.0
30°	5772.5	5778.4	5784.3	5781.4
32.5°	5038.0	5035.0	5029.1	5023.1
35°	4294.6	4294.6	4297.5	4279.7
37.5°	3619.2	3616.3	3625.2	3616.3
40°	2973.6	2970.7	2982.5	2967.8
42.5°	2319.1	2328.0	2330.9	2330.9
45°	1744.5	1747.4	1750.4	1750.4
47.5°	1273.6	1276.5	1291.4	1273.6
50°	900.4	903.3	906.3	900.4
52.5°	595.3	598.3	595.3	586.4
55°	364.3	367.3	367.3	367.3
57.5°	195.4	198.5	198.5	195.4
60°	106.7	103.6	106.7	100.7
62.5°	56.3	62.2	59.2	53.3
65°	35.6	35.6	35.6	41.4
67.5°	29.6	23.7	26.7	20.7
70°	17.8	20.7	20.7	14.8
72.5°	14.8	14.8	14.8	17.8
75°	0.0	0.0	0.0	0.0
77.5°	6.0	6.0	6.0	2.9
80°	2.9	0.0	2.9	0.0
82.5°	2.9	2.9	6.0	2.9
85°	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)