

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: P250207

Luminaire Tested: **LSR8B120D010 EC8B120827 8LBSW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250207  
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 EC8B120827 8LBSW0WH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11792.0 lumens  
Efficiency: N/A  
Efficacy: 99.7 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

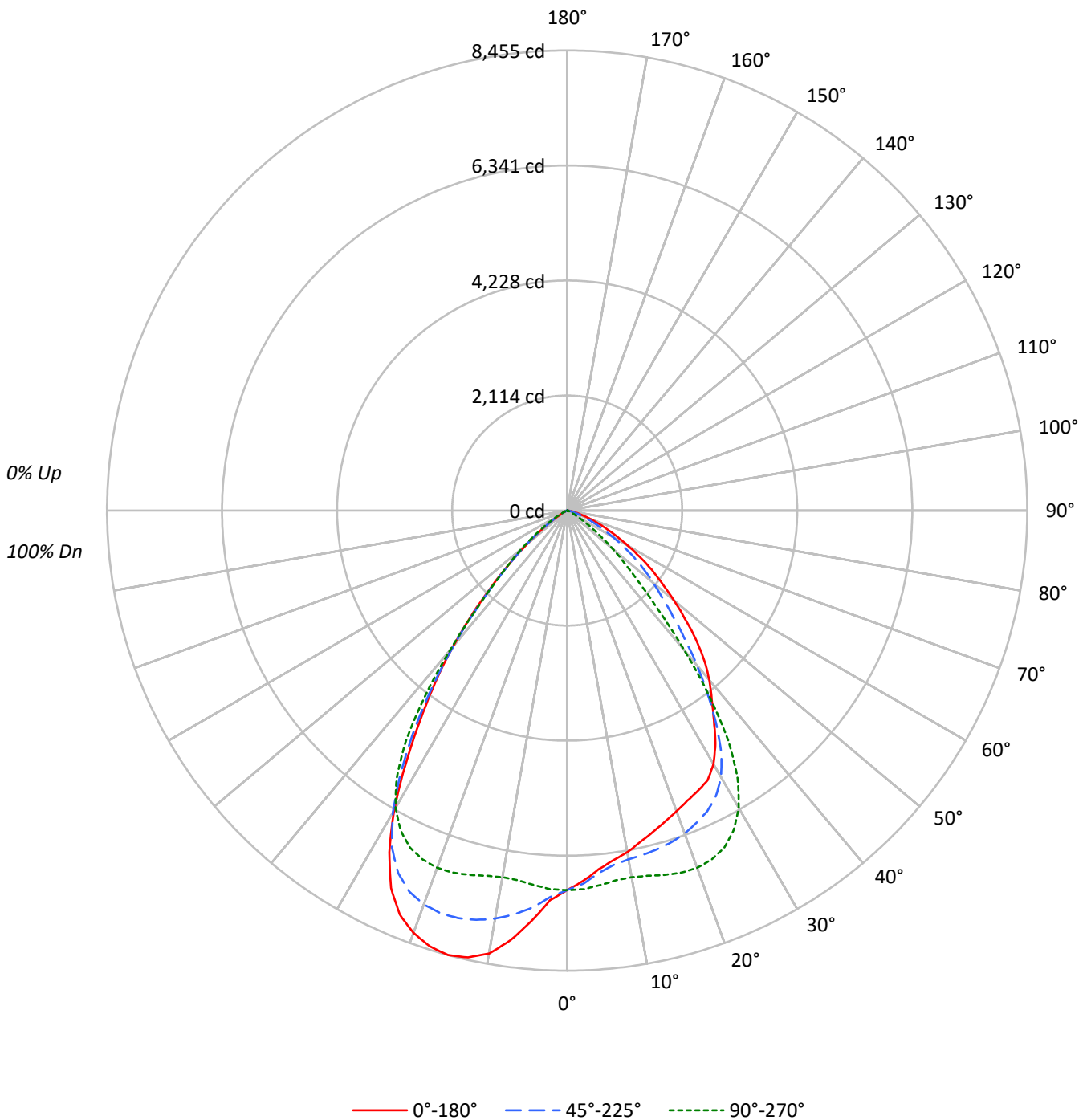
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	215009	215009	215009
5°	204839	213815	234394
10°	199558	214146	258728
15°	195031	221244	269921
20°	192885	229235	270936
25°	193335	232473	260410
30°	191543	224493	226462
35°	176992	194282	177233
40°	163556	134698	131421
45°	145641	81279	83974
50°	122542	52362	47522
55°	101948	28725	21725
60°	79576	12458	6833
65°	58722	6187	3327
70°	40833	3823	1461
75°	24841	786	0
80°	17936	1172	0
85°	11534	1132	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	670.3	5.7
10°-20°	2006.2	17.0
20°-30°	3072.2	26.1
30°-40°	3011.8	25.5
40°-50°	1813.7	15.4
50°-60°	834.8	7.1
60°-70°	293.3	2.5
70°-80°	76.7	0.7
80°-90°	13.1	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°	5748.7	48.8
0°-40°	8760.5	74.3
0°-60°	11409.0	96.8
0°-90°	11792.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11792.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	6973	6973	6973	6973	6973	
5°	6618	6680	6908	7321	7572	625
15°	6109	6438	6930	7751	8455	1726
25°	5682	6093	6833	7347	7654	2617
35°	4702	4767	5161	4864	4708	2945
45°	3340	2750	1864	1877	1926	2561
55°	1896	1502	534	420	404	1692
65°	805	557	85	42	46	820
75°	208	121	7	0	0	253
85°	33	16	3	0	0	45
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°	6972.6	6972.6	6972.6	6972.6	6972.6	6972.6	6972.6	6972.6	6972.6	6972.6	6972.6
2.5°	6809.7	6816.3	6816.3	6816.3	6829.3	6832.6	6829.3	6832.6	6839.1	6861.9	6871.6
5°	6617.5	6607.7	6614.3	6610.9	6627.3	6637.1	6630.5	6640.3	6663.1	6679.5	6695.7
7.5°	6480.7	6480.7	6480.7	6487.1	6496.9	6516.5	6513.3	6519.7	6542.5	6565.3	6588.1
10°	6373.2	6369.9	6369.9	6386.2	6399.2	6422.0	6428.5	6448.1	6477.4	6506.7	6532.7
12.5°	6233.0	6236.4	6252.6	6268.9	6298.2	6334.0	6353.6	6379.7	6425.3	6474.1	6503.5
15°	6109.2	6112.4	6125.6	6158.0	6194.0	6236.4	6278.6	6321.0	6376.4	6438.3	6490.5
17.5°	5988.7	5991.9	6001.7	6037.6	6083.2	6138.6	6187.4	6242.8	6314.5	6386.2	6451.3
20°	5877.9	5874.7	5890.9	5923.5	5982.2	6034.3	6083.2	6148.4	6226.6	6314.5	6389.4
22.5°	5770.3	5770.3	5786.7	5819.3	5871.4	5923.5	5975.6	6044.0	6122.2	6207.0	6295.0
25°	5682.3	5679.1	5701.9	5718.3	5757.3	5809.5	5864.9	5920.3	5998.4	6093.0	6177.6
27.5°	5587.9	5584.7	5587.9	5607.5	5643.3	5682.3	5724.7	5773.7	5838.8	5917.0	5998.4
30°	5379.4	5382.6	5382.6	5399.0	5418.5	5460.8	5483.6	5532.5	5591.1	5656.3	5728.1
32.5°	5069.8	5073.1	5073.1	5079.6	5095.9	5115.4	5135.0	5170.8	5216.4	5271.8	5337.0
35°	4701.7	4701.7	4698.4	4701.7	4711.5	4711.5	4727.7	4711.5	4734.3	4766.9	4815.7
37.5°	4362.8	4356.2	4349.8	4343.2	4333.4	4317.2	4294.4	4255.3	4245.5	4232.5	4235.7
40°	4063.1	4059.8	4040.3	4023.9	3991.3	3952.3	3896.9	3828.5	3773.1	3707.9	3652.5
42.5°	3730.7	3727.4	3711.2	3681.8	3646.0	3587.4	3499.4	3408.2	3297.4	3199.7	3098.7
45°	3339.7	3349.5	3326.7	3294.1	3251.7	3196.3	3098.7	2987.8	2877.0	2750.0	2622.8
47.5°	2932.4	2929.1	2912.9	2893.3	2857.5	2802.1	2737.0	2616.4	2499.0	2381.8	2251.5
50°	2554.4	2541.4	2534.9	2515.4	2492.6	2447.0	2378.5	2280.7	2176.5	2065.7	1945.2
52.5°	2196.1	2196.1	2179.7	2166.7	2147.1	2111.3	2052.7	1974.5	1886.6	1782.2	1655.2
55°	1896.3	1889.8	1873.5	1857.2	1837.6	1814.8	1762.8	1697.6	1603.0	1502.1	1391.3
57.5°	1577.0	1573.7	1567.2	1547.7	1537.9	1515.1	1456.5	1391.3	1309.9	1221.9	1130.6
60°	1290.3	1277.3	1264.1	1251.1	1234.9	1212.1	1172.9	1117.6	1049.2	971.0	879.8
62.5°	1032.9	1052.4	1013.4	1013.4	980.8	961.2	925.4	892.8	821.0	749.4	671.2
65°	804.8	804.8	788.4	775.4	755.9	733.1	697.3	664.7	612.5	557.1	501.7
67.5°	615.8	612.5	596.3	583.3	566.9	553.9	527.9	488.7	449.7	404.1	358.3
70°	452.9	449.7	446.3	423.5	410.5	394.3	374.7	348.7	319.3	286.7	244.4
72.5°	325.8	325.8	316.1	306.3	293.3	280.2	260.7	244.4	218.3	195.5	166.2
75°	208.5	205.3	205.3	189.0	189.0	169.4	156.4	146.6	133.6	120.6	94.5
77.5°	149.9	146.6	143.4	136.8	130.4	123.8	114.0	101.0	91.2	78.2	68.4
80°	101.0	94.5	91.2	91.2	81.4	78.2	81.4	62.0	58.6	48.8	42.4
82.5°	62.0	62.0	58.6	58.6	55.4	52.2	42.4	42.4	39.2	35.8	29.4
85°	32.6	42.4	29.4	32.6	29.4	32.6	29.4	22.8	19.6	16.2	16.2
87.5°	19.6	13.0	13.0	19.6	16.2	13.0	13.0	13.0	9.8	6.6	6.6
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°	6972.6	6972.6	6972.6	6972.6	6972.6	6972.6	6972.6	6972.6	6972.6	6972.6	6972.6
2.5°	6865.2	6888.0	6884.7	6914.0	6923.8	6946.6	6946.6	6962.8	6972.6	6995.4	7015.0
5°	6702.3	6738.1	6747.9	6783.7	6813.0	6848.8	6871.6	6907.5	6940.0	6989.0	7034.6
7.5°	6601.3	6630.5	6650.1	6692.5	6725.1	6764.1	6803.3	6852.1	6897.7	6956.4	7021.6
10°	6552.3	6591.5	6620.7	6663.1	6702.3	6744.6	6783.7	6839.1	6891.2	6966.2	7037.8
12.5°	6539.3	6584.9	6620.7	6679.5	6718.5	6764.1	6809.7	6871.6	6927.0	7005.2	7086.8
15°	6539.3	6601.3	6650.1	6715.3	6760.9	6819.5	6868.4	6930.3	6992.2	7073.6	7151.8
17.5°	6526.3	6601.3	6663.1	6738.1	6796.7	6855.4	6917.2	6976.0	7041.0	7119.4	7207.2
20°	6474.1	6568.7	6643.5	6731.5	6793.5	6858.6	6920.6	6985.6	7054.2	7135.6	7210.5
22.5°	6382.9	6493.7	6578.5	6672.9	6744.6	6809.7	6871.6	6936.8	7011.8	7090.0	7168.2
25°	6262.4	6366.6	6457.9	6555.5	6627.3	6698.9	6757.7	6832.6	6901.0	6976.0	7037.8
27.5°	6079.8	6190.6	6278.6	6379.7	6444.8	6513.3	6562.1	6624.1	6689.3	6751.1	6800.0
30°	5806.3	5907.2	5998.4	6089.6	6154.8	6203.8	6255.8	6304.8	6347.1	6389.4	6431.8
32.5°	5405.4	5496.7	5584.7	5669.3	5721.5	5763.9	5802.9	5832.3	5855.1	5877.9	5881.1
35°	4854.9	4929.7	4985.1	5060.1	5109.0	5148.0	5148.0	5161.0	5157.8	5148.0	5138.2
37.5°	4239.0	4268.3	4291.1	4320.4	4323.6	4323.6	4304.2	4287.8	4261.8	4255.3	4235.7
40°	3597.2	3558.0	3528.6	3489.6	3466.8	3417.9	3375.6	3346.2	3303.9	3297.4	3290.8
42.5°	2987.8	2896.6	2815.2	2746.8	2668.6	2600.0	2538.2	2492.6	2460.0	2456.7	2460.0
45°	2492.6	2388.3	2267.7	2173.3	2085.3	2000.6	1919.1	1863.8	1834.4	1827.8	1834.4
47.5°	2117.9	1997.3	1880.0	1772.4	1678.0	1583.5	1502.1	1427.1	1391.3	1381.5	1378.3
50°	1821.4	1697.6	1573.7	1462.9	1358.7	1264.1	1163.2	1091.5	1045.9	1029.6	1016.6
52.5°	1531.4	1420.7	1293.5	1179.5	1075.2	964.4	860.2	778.7	733.1	713.6	700.5
55°	1277.3	1166.5	1049.2	938.4	827.6	716.8	612.5	534.3	485.5	462.7	446.3
57.5°	1019.8	915.6	814.6	703.8	612.5	505.1	400.7	332.3	290.0	263.9	250.9
60°	788.4	707.0	619.1	527.9	439.9	351.9	267.2	202.0	169.4	149.9	133.6
62.5°	596.3	527.9	469.1	390.9	322.5	247.6	182.5	130.4	101.0	84.8	78.2
65°	430.1	377.9	325.8	276.9	228.1	172.7	123.8	84.8	58.6	48.8	45.6
67.5°	306.3	263.9	224.8	192.2	156.4	123.8	88.0	58.6	45.6	39.2	35.8
70°	215.0	182.5	156.4	127.1	104.2	81.4	68.4	42.4	26.0	29.4	22.8
72.5°	143.4	120.6	107.6	88.0	71.6	58.6	42.4	29.4	29.4	22.8	19.6
75°	78.2	71.6	55.4	42.4	35.8	32.6	13.0	6.6	3.2	9.8	3.2
77.5°	55.4	48.8	42.4	35.8	29.4	22.8	13.0	13.0	9.8	13.0	6.6
80°	35.8	29.4	26.0	26.0	16.2	9.8	6.6	6.6	9.8	3.2	3.2
82.5°	22.8	19.6	16.2	16.2	16.2	9.8	9.8	9.8	9.8	6.6	6.6
85°	13.0	9.8	6.6	6.6	3.2	6.6	0.0	3.2	3.2	0.0	0.0
87.5°	6.6	3.2	3.2	3.2	3.2	0.0	0.0	3.2	0.0	3.2	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°	6972.6	6972.6	6972.6	6972.6	6972.6	6972.6	6972.6	6972.6	6972.6	6972.6	6972.6
2.5°	7028.0	7041.0	7057.4	7070.4	7099.8	7106.2	7119.4	7132.4	7142.2	7151.8	7155.2
5°	7073.6	7122.6	7168.2	7217.0	7278.9	7321.3	7370.1	7412.5	7454.9	7490.7	7516.7
7.5°	7086.8	7161.6	7230.1	7314.8	7406.0	7484.3	7565.7	7647.1	7731.8	7797.0	7852.4
10°	7112.8	7204.0	7292.0	7392.9	7510.3	7614.5	7715.5	7823.0	7930.6	8021.8	8103.3
12.5°	7158.4	7259.4	7353.9	7464.7	7585.3	7702.5	7813.3	7933.8	8047.9	8148.9	8240.1
15°	7233.3	7327.8	7419.1	7523.3	7643.9	7751.4	7862.2	7979.4	8093.5	8197.8	8282.5
17.5°	7282.2	7370.1	7461.3	7555.9	7656.9	7754.6	7858.8	7963.2	8067.4	8161.9	8240.1
20°	7282.2	7366.9	7435.3	7520.1	7614.5	7699.3	7784.0	7875.2	7966.4	8044.6	8119.6
22.5°	7223.6	7305.0	7357.1	7422.3	7503.7	7575.5	7621.1	7722.1	7790.5	7858.8	7914.2
25°	7086.8	7145.4	7187.8	7233.3	7298.5	7347.3	7386.5	7445.1	7513.5	7539.7	7578.7
27.5°	6839.1	6881.4	6904.2	6914.0	6946.6	6972.6	6979.2	7005.2	7034.6	7041.0	7057.4
30°	6448.1	6451.3	6441.5	6438.3	6422.0	6402.5	6399.2	6396.0	6382.9	6369.9	6373.2
32.5°	5858.3	5842.1	5802.9	5760.7	5718.3	5672.7	5646.5	5613.9	5594.4	5574.9	5552.1
35°	5095.9	5056.8	5001.5	4949.3	4900.5	4864.5	4805.9	4786.3	4766.9	4740.7	4734.3
37.5°	4199.9	4177.1	4124.9	4085.9	4059.8	4043.5	4014.1	3994.7	3994.7	3984.9	3978.3
40°	3274.5	3268.0	3248.5	3258.3	3245.3	3251.7	3248.5	3241.9	3258.3	3258.3	3264.8
42.5°	2456.7	2460.0	2469.8	2476.3	2495.8	2499.0	2515.4	2515.4	2525.2	2534.9	2541.4
45°	1827.8	1841.0	1841.0	1854.0	1873.5	1876.8	1883.2	1886.6	1893.0	1909.4	1915.8
47.5°	1371.7	1374.9	1374.9	1378.3	1384.7	1391.3	1388.1	1391.3	1401.1	1394.5	1401.1
50°	1013.4	1016.6	1006.8	997.0	1006.8	1006.8	1003.6	993.8	1003.6	990.6	997.0
52.5°	690.8	687.5	677.7	681.0	674.5	671.2	671.2	664.7	664.7	664.7	651.7
55°	436.7	436.7	430.1	430.1	426.9	420.3	417.1	413.7	410.5	407.3	407.3
57.5°	244.4	247.6	237.9	234.6	237.9	234.6	228.1	228.1	228.1	218.3	224.8
60°	133.6	130.4	127.1	123.8	120.6	123.8	123.8	117.3	117.3	117.3	120.6
62.5°	71.6	71.6	68.4	68.4	65.2	65.2	71.6	62.0	65.2	62.0	65.2
65°	39.2	48.8	35.8	35.8	45.6	42.4	39.2	39.2	42.4	35.8	39.2
67.5°	42.4	29.4	26.0	29.4	26.0	26.0	26.0	32.6	29.4	22.8	29.4
70°	19.6	22.8	22.8	16.2	26.0	13.0	22.8	13.0	19.6	16.2	19.6
72.5°	19.6	19.6	19.6	13.0	19.6	13.0	16.2	16.2	13.0	13.0	19.6
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°	6.6	6.6	3.2	3.2	3.2	3.2	6.6	6.6	6.6	0.0	3.2
80°	6.6	6.6	0.0	3.2	0.0	0.0	3.2	0.0	3.2	0.0	6.6
82.5°	3.2	6.6	3.2	3.2	6.6	6.6	6.6	3.2	3.2	3.2	3.2
85°	0.0	3.2	0.0	0.0	0.0	0.0	6.6	0.0	0.0	0.0	3.2
87.5°	0.0	3.2	0.0	0.0	0.0	0.0	3.2	3.2	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: P250207

CATALOG NUMBER: LSR8B120D010 EC8B120827 8LBSW0WH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	6972.6	6972.6	6972.6	6972.6
2.5°	7158.4	7161.6	7168.2	7165.0
5°	7536.3	7562.5	7575.5	7572.3
7.5°	7891.4	7937.2	7963.2	7963.2
10°	8165.2	8217.3	8256.4	8262.9
12.5°	8311.7	8370.5	8422.7	8409.5
15°	8354.1	8412.9	8464.9	8455.1
17.5°	8305.3	8363.9	8403.1	8396.5
20°	8171.7	8220.5	8259.7	8256.4
22.5°	7963.2	8005.6	8038.2	8034.8
25°	7611.3	7640.6	7666.7	7653.7
27.5°	7070.4	7080.2	7096.4	7077.0
30°	6350.4	6356.8	6363.4	6360.1
32.5°	5542.3	5539.0	5532.5	5526.0
35°	4724.5	4724.5	4727.7	4708.1
37.5°	3981.5	3978.3	3988.1	3978.3
40°	3271.3	3268.0	3281.1	3264.8
42.5°	2551.2	2561.0	2564.2	2564.2
45°	1919.1	1922.4	1925.6	1925.6
47.5°	1401.1	1404.3	1420.7	1401.1
50°	990.6	993.8	997.0	990.6
52.5°	654.9	658.2	654.9	645.1
55°	400.7	404.1	404.1	404.1
57.5°	215.0	218.3	218.3	215.0
60°	117.3	114.0	117.3	110.8
62.5°	62.0	68.4	65.2	58.6
65°	39.2	39.2	39.2	45.6
67.5°	32.6	26.0	29.4	22.8
70°	19.6	22.8	22.8	16.2
72.5°	16.2	16.2	16.2	19.6
75°	0.0	0.0	0.0	0.0
77.5°	6.6	6.6	6.6	3.2
80°	3.2	0.0	3.2	0.0
82.5°	3.2	3.2	6.6	3.2
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)