

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: P249773

Luminaire Tested: **LSR8B120D010 EC8B120927 8LBSW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249773
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 EC8B120927 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10210.5 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

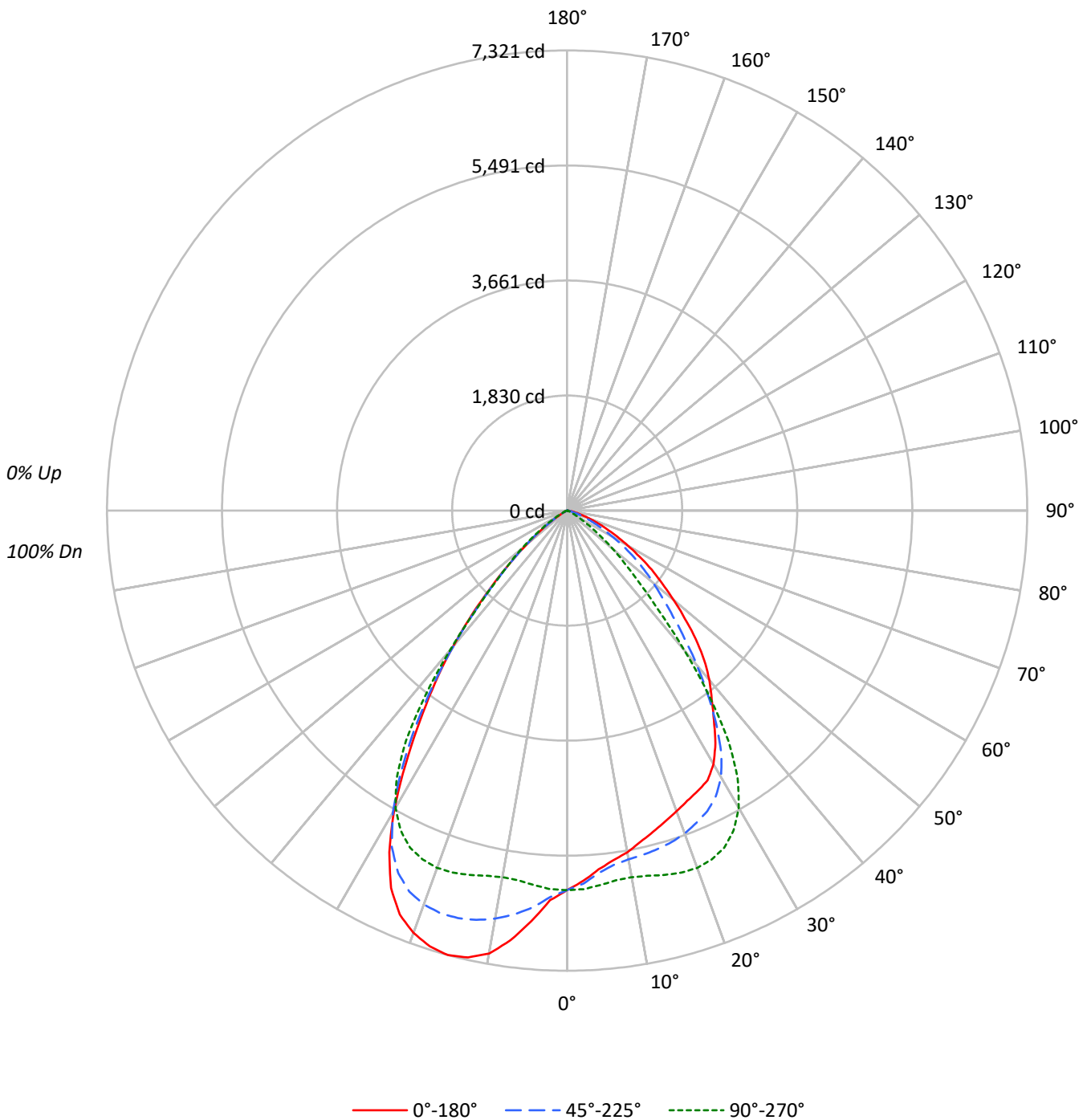
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

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°	580.4	5.7
10°-20°	1737.1	17.0
20°-30°	2660.2	26.1
30°-40°	2607.9	25.5
40°-50°	1570.5	15.4
50°-60°	722.8	7.1
60°-70°	253.9	2.5
70°-80°	66.4	0.7
80°-90°	11.3	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°	4977.7	48.8
0°-40°	7585.5	74.3
0°-60°	9878.8	96.8
0°-90°	10210.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10210.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6038	6038	6038	6038	6038	
5°	5730	5784	5981	6339	6557	541
15°	5290	5575	6001	6712	7321	1495
25°	4920	5276	5916	6362	6627	2266
35°	4071	4128	4469	4212	4077	2550
45°	2892	2381	1614	1625	1667	2218
55°	1642	1301	463	364	350	1465
65°	697	482	73	37	40	710
75°	181	104	6	0	0	219
85°	28	14	3	0	0	39
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°	6037.5	6037.5	6037.5	6037.5	6037.5	6037.5	6037.5	6037.5	6037.5	6037.5	6037.5
2.5°	5896.3	5902.1	5902.1	5902.1	5913.3	5916.3	5913.3	5916.3	5921.8	5941.6	5950.0
5°	5730.0	5721.5	5727.2	5724.3	5738.5	5747.0	5741.2	5749.8	5769.4	5783.6	5797.7
7.5°	5611.5	5611.5	5611.5	5617.1	5625.6	5642.6	5639.7	5645.4	5665.0	5684.8	5704.5
10°	5518.5	5515.7	5515.7	5529.7	5541.0	5560.7	5566.4	5583.4	5608.7	5634.1	5656.6
12.5°	5397.1	5400.0	5414.1	5428.1	5453.6	5484.5	5501.5	5524.1	5563.6	5605.9	5631.3
15°	5289.9	5292.7	5304.0	5332.2	5363.2	5400.0	5436.6	5473.2	5521.2	5574.8	5620.0
17.5°	5185.5	5188.3	5196.7	5227.9	5267.4	5315.3	5357.6	5405.5	5467.6	5529.7	5586.1
20°	5089.6	5086.8	5100.9	5129.0	5180.0	5225.0	5267.4	5323.8	5391.4	5467.6	5532.4
22.5°	4996.5	4996.5	5010.6	5038.8	5084.0	5129.0	5174.2	5233.4	5301.1	5374.6	5450.7
25°	4920.3	4917.5	4937.2	4951.3	4985.2	5030.3	5078.2	5126.3	5193.9	5275.8	5349.2
27.5°	4838.5	4835.7	4838.5	4855.5	4886.4	4920.3	4957.0	4999.3	5055.8	5123.5	5193.9
30°	4658.0	4660.7	4660.7	4674.8	4691.8	4728.4	4748.2	4790.6	4841.3	4897.7	4959.9
32.5°	4389.9	4392.7	4392.7	4398.4	4412.5	4429.3	4446.3	4477.4	4516.9	4564.8	4621.3
35°	4071.2	4071.2	4068.2	4071.2	4079.6	4079.6	4093.6	4079.6	4099.4	4127.6	4169.8
37.5°	3777.6	3772.0	3766.4	3760.8	3752.2	3738.2	3718.5	3684.6	3676.0	3664.8	3667.6
40°	3518.1	3515.4	3498.4	3484.2	3456.0	3422.2	3374.2	3315.0	3267.1	3210.6	3162.7
42.5°	3230.4	3227.5	3213.5	3188.0	3157.0	3106.2	3030.1	2951.1	2855.1	2770.5	2683.1
45°	2891.8	2900.2	2880.5	2852.3	2815.5	2767.6	2683.1	2587.0	2491.1	2381.2	2271.0
47.5°	2539.1	2536.3	2522.2	2505.3	2474.3	2426.3	2369.9	2265.5	2163.9	2062.4	1949.5
50°	2211.9	2200.6	2194.9	2178.0	2158.3	2118.8	2059.5	1974.8	1884.6	1788.6	1684.2
52.5°	1901.6	1901.6	1887.4	1876.2	1859.2	1828.1	1777.4	1709.7	1633.5	1543.2	1433.2
55°	1642.0	1636.3	1622.2	1608.1	1591.2	1571.4	1526.4	1469.9	1388.0	1300.6	1204.6
57.5°	1365.5	1362.6	1357.1	1340.1	1331.7	1311.9	1261.1	1204.6	1134.2	1058.1	979.0
60°	1117.2	1106.0	1094.6	1083.4	1069.3	1049.5	1015.6	967.7	908.4	840.7	761.7
62.5°	894.4	911.2	877.5	877.5	849.3	832.3	801.2	773.1	710.9	648.9	581.2
65°	696.8	696.8	682.6	671.4	654.5	634.7	603.8	575.6	530.3	482.4	434.5
67.5°	533.2	530.3	516.3	505.0	490.8	479.6	457.1	423.1	389.4	349.9	310.3
70°	392.2	389.4	386.4	366.8	355.5	341.4	324.4	302.0	276.5	248.3	211.6
72.5°	282.0	282.0	273.7	265.3	253.9	242.6	225.8	211.6	189.0	169.3	143.9
75°	180.6	177.8	177.8	163.6	163.6	146.7	135.5	126.9	115.6	104.4	81.9
77.5°	129.8	126.9	124.1	118.5	112.8	107.2	98.7	87.4	79.0	67.7	59.2
80°	87.4	81.9	79.0	79.0	70.5	67.7	70.5	53.7	50.7	42.3	36.7
82.5°	53.7	53.7	50.7	50.7	47.9	45.2	36.7	36.7	33.9	31.0	25.4
85°	28.2	36.7	25.4	28.2	25.4	28.2	25.4	19.7	17.0	14.1	14.1
87.5°	17.0	11.2	11.2	17.0	14.1	11.2	11.2	11.2	8.4	5.7	5.7
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	6037.5	6037.5	6037.5	6037.5	6037.5	6037.5	6037.5	6037.5	6037.5	6037.5	6037.5
2.5°	5944.5	5964.2	5961.3	5986.7	5995.2	6014.9	6014.9	6029.0	6037.5	6057.2	6074.2
5°	5803.4	5834.4	5842.9	5873.8	5899.3	5930.3	5950.0	5981.1	6009.3	6051.7	6091.1
7.5°	5715.9	5741.2	5758.2	5794.9	5823.1	5856.9	5890.8	5933.1	5972.6	6023.5	6079.8
10°	5673.6	5707.5	5732.8	5769.4	5803.4	5840.1	5873.8	5921.8	5967.0	6031.9	6093.9
12.5°	5662.2	5701.7	5732.8	5783.6	5817.5	5856.9	5896.3	5950.0	5998.0	6065.7	6136.3
15°	5662.2	5715.9	5758.2	5814.7	5854.2	5904.9	5947.3	6000.8	6054.4	6125.0	6192.7
17.5°	5651.0	5715.9	5769.4	5834.4	5885.1	5936.0	5989.5	6040.3	6096.7	6164.6	6240.6
20°	5605.9	5687.8	5752.5	5828.7	5882.4	5938.8	5992.4	6048.8	6108.1	6178.6	6243.5
22.5°	5526.9	5622.8	5696.2	5778.0	5840.1	5896.3	5950.0	6006.5	6071.4	6139.1	6206.8
25°	5422.5	5512.7	5591.8	5676.3	5738.5	5800.5	5851.3	5916.3	5975.4	6040.3	6093.9
27.5°	5264.4	5360.4	5436.6	5524.1	5580.4	5639.7	5682.0	5735.7	5792.1	5845.6	5888.0
30°	5027.5	5115.0	5193.9	5272.9	5329.3	5371.8	5416.8	5459.2	5495.8	5532.4	5569.2
32.5°	4680.4	4759.5	4835.7	4908.9	4954.2	4990.8	5024.6	5050.1	5069.8	5089.6	5092.3
35°	4203.8	4268.6	4316.5	4381.4	4423.8	4457.6	4457.6	4468.8	4466.0	4457.6	4449.2
37.5°	3670.5	3695.8	3715.5	3741.0	3743.8	3743.8	3726.9	3712.7	3690.2	3684.6	3667.6
40°	3114.7	3080.8	3055.4	3021.6	3001.8	2959.4	2922.9	2897.4	2860.8	2855.1	2849.5
42.5°	2587.0	2508.1	2437.6	2378.4	2310.6	2251.4	2197.8	2158.3	2130.1	2127.2	2130.1
45°	2158.3	2068.0	1963.6	1881.8	1805.6	1732.3	1661.7	1613.8	1588.4	1582.6	1588.4
47.5°	1833.9	1729.5	1627.9	1534.7	1452.9	1371.1	1300.6	1235.7	1204.6	1196.2	1193.4
50°	1577.1	1469.9	1362.6	1266.8	1176.5	1094.6	1007.2	945.1	905.6	891.4	880.2
52.5°	1326.0	1230.1	1120.0	1021.3	930.9	835.1	744.9	674.2	634.7	617.8	606.5
55°	1106.0	1010.0	908.4	812.6	716.6	620.7	530.3	462.6	420.4	400.6	386.4
57.5°	883.0	792.8	705.4	609.4	530.3	437.3	347.0	287.8	251.1	228.5	217.2
60°	682.6	612.2	536.1	457.1	380.9	304.8	231.3	174.9	146.7	129.8	115.6
62.5°	516.3	457.1	406.2	338.5	279.3	214.3	158.1	112.8	87.4	73.4	67.7
65°	372.4	327.3	282.0	239.8	197.5	149.6	107.2	73.4	50.7	42.3	39.5
67.5°	265.3	228.5	194.6	166.4	135.5	107.2	76.2	50.7	39.5	33.9	31.0
70°	186.2	158.1	135.5	110.1	90.2	70.5	59.2	36.7	22.5	25.4	19.7
72.5°	124.1	104.4	93.1	76.2	62.0	50.7	36.7	25.4	25.4	19.7	17.0
75°	67.7	62.0	47.9	36.7	31.0	28.2	11.2	5.7	2.8	8.4	2.8
77.5°	47.9	42.3	36.7	31.0	25.4	19.7	11.2	11.2	8.4	11.2	5.7
80°	31.0	25.4	22.5	22.5	14.1	8.4	5.7	5.7	8.4	2.8	2.8
82.5°	19.7	17.0	14.1	14.1	14.1	8.4	8.4	8.4	8.4	5.7	5.7
85°	11.2	8.4	5.7	5.7	2.8	5.7	0.0	2.8	2.8	0.0	0.0
87.5°	5.7	2.8	2.8	2.8	2.8	0.0	0.0	2.8	0.0	2.8	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°	6037.5	6037.5	6037.5	6037.5	6037.5	6037.5	6037.5	6037.5	6037.5	6037.5	6037.5
2.5°	6085.5	6096.7	6110.9	6122.1	6147.6	6153.2	6164.6	6175.8	6184.2	6192.7	6195.5
5°	6125.0	6167.4	6206.8	6249.0	6302.7	6339.4	6381.7	6418.3	6455.0	6486.1	6508.6
7.5°	6136.3	6201.1	6260.4	6333.8	6412.7	6480.6	6551.0	6621.5	6694.9	6751.4	6799.3
10°	6158.8	6237.8	6314.0	6401.5	6503.1	6593.3	6680.7	6773.8	6867.0	6946.0	7016.5
12.5°	6198.3	6285.7	6367.6	6463.6	6568.0	6669.4	6765.4	6869.8	6968.6	7056.0	7135.0
15°	6263.2	6345.0	6424.1	6514.3	6618.7	6711.9	6807.7	6909.3	7008.1	7098.3	7171.6
17.5°	6305.5	6381.7	6460.7	6542.6	6630.0	6714.7	6804.9	6895.2	6985.5	7067.2	7135.0
20°	6305.5	6378.9	6438.2	6511.5	6593.3	6666.6	6740.1	6819.0	6897.9	6965.7	7030.6
22.5°	6254.8	6325.2	6370.4	6426.9	6497.3	6559.4	6598.9	6686.4	6745.6	6804.9	6852.8
25°	6136.3	6187.0	6223.7	6263.2	6319.7	6362.0	6395.8	6446.6	6505.9	6528.5	6562.2
27.5°	5921.8	5958.6	5978.2	5986.7	6014.9	6037.5	6043.2	6065.7	6091.1	6096.7	6110.9
30°	5583.4	5586.1	5577.6	5574.8	5560.7	5543.9	5541.0	5538.2	5526.9	5515.7	5518.5
32.5°	5072.6	5058.6	5024.6	4988.0	4951.3	4911.9	4889.2	4861.0	4844.0	4827.3	4807.5
35°	4412.5	4378.6	4330.7	4285.5	4243.3	4212.1	4161.4	4144.4	4127.6	4104.9	4099.4
37.5°	3636.6	3616.9	3571.6	3537.9	3515.4	3501.2	3475.8	3458.9	3458.9	3450.5	3444.8
40°	2835.3	2829.7	2812.8	2821.3	2810.0	2815.5	2812.8	2807.1	2821.3	2821.3	2827.0
42.5°	2127.2	2130.1	2138.6	2144.1	2161.1	2163.9	2178.0	2178.0	2186.5	2194.9	2200.6
45°	1582.6	1594.0	1594.0	1605.4	1622.2	1625.1	1630.7	1633.5	1639.1	1653.3	1658.8
47.5°	1187.8	1190.5	1190.5	1193.4	1199.0	1204.6	1202.0	1204.6	1213.2	1207.5	1213.2
50°	877.5	880.2	871.8	863.3	871.8	871.8	869.0	860.5	869.0	857.7	863.3
52.5°	598.2	595.2	586.8	589.7	584.0	581.2	581.2	575.6	575.6	575.6	564.3
55°	378.1	378.1	372.4	372.4	369.7	363.9	361.1	358.2	355.5	352.7	352.7
57.5°	211.6	214.3	206.0	203.1	206.0	203.1	197.5	197.5	197.5	189.0	194.6
60°	115.6	112.8	110.1	107.2	104.4	107.2	107.2	101.6	101.6	101.6	104.4
62.5°	62.0	62.0	59.2	59.2	56.5	56.5	62.0	53.7	56.5	53.7	56.5
65°	33.9	42.3	31.0	31.0	39.5	36.7	33.9	33.9	36.7	31.0	33.9
67.5°	36.7	25.4	22.5	25.4	22.5	22.5	22.5	28.2	25.4	19.7	25.4
70°	17.0	19.7	19.7	14.1	22.5	11.2	19.7	11.2	17.0	14.1	17.0
72.5°	17.0	17.0	17.0	11.2	17.0	11.2	14.1	14.1	11.2	11.2	17.0
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°	5.7	5.7	2.8	2.8	2.8	2.8	5.7	5.7	5.7	0.0	2.8
80°	5.7	5.7	0.0	2.8	0.0	0.0	2.8	0.0	2.8	0.0	5.7
82.5°	2.8	5.7	2.8	2.8	5.7	5.7	5.7	2.8	2.8	2.8	2.8
85°	0.0	2.8	0.0	0.0	0.0	0.0	5.7	0.0	0.0	0.0	2.8
87.5°	0.0	2.8	0.0	0.0	0.0	0.0	2.8	2.8	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: P249773

CATALOG NUMBER: LSR8B120D010 EC8B120927 8LBSWOLI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	6037.5	6037.5	6037.5	6037.5
2.5°	6198.3	6201.1	6206.8	6204.0
5°	6525.6	6548.2	6559.4	6556.7
7.5°	6833.0	6872.6	6895.2	6895.2
10°	7070.1	7115.3	7149.0	7154.8
12.5°	7197.0	7247.8	7293.0	7281.7
15°	7233.8	7284.6	7329.6	7321.2
17.5°	7191.4	7242.2	7276.0	7270.4
20°	7075.8	7118.0	7152.0	7149.0
22.5°	6895.2	6931.9	6960.2	6957.2
25°	6590.5	6615.9	6638.4	6627.2
27.5°	6122.1	6130.6	6144.6	6127.9
30°	5498.7	5504.3	5509.9	5507.1
32.5°	4799.0	4796.1	4790.6	4784.8
35°	4090.8	4090.8	4093.6	4076.7
37.5°	3447.6	3444.8	3453.2	3444.8
40°	2832.5	2829.7	2841.0	2827.0
42.5°	2209.0	2217.5	2220.3	2220.3
45°	1661.7	1664.6	1667.4	1667.4
47.5°	1213.2	1215.9	1230.1	1213.2
50°	857.7	860.5	863.3	857.7
52.5°	567.0	569.9	567.0	558.6
55°	347.0	349.9	349.9	349.9
57.5°	186.2	189.0	189.0	186.2
60°	101.6	98.7	101.6	96.0
62.5°	53.7	59.2	56.5	50.7
65°	33.9	33.9	33.9	39.5
67.5°	28.2	22.5	25.4	19.7
70°	17.0	19.7	19.7	14.1
72.5°	14.1	14.1	14.1	17.0
75°	0.0	0.0	0.0	0.0
77.5°	5.7	5.7	5.7	2.8
80°	2.8	0.0	2.8	0.0
82.5°	2.8	2.8	5.7	2.8
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)