

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: P250284

Luminaire Tested: **LSR8B120D010 EC8B120930 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250284
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 EC8B120930 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE 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: 10379.3 lumens
Efficiency: N/A
Efficacy: 87.7 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

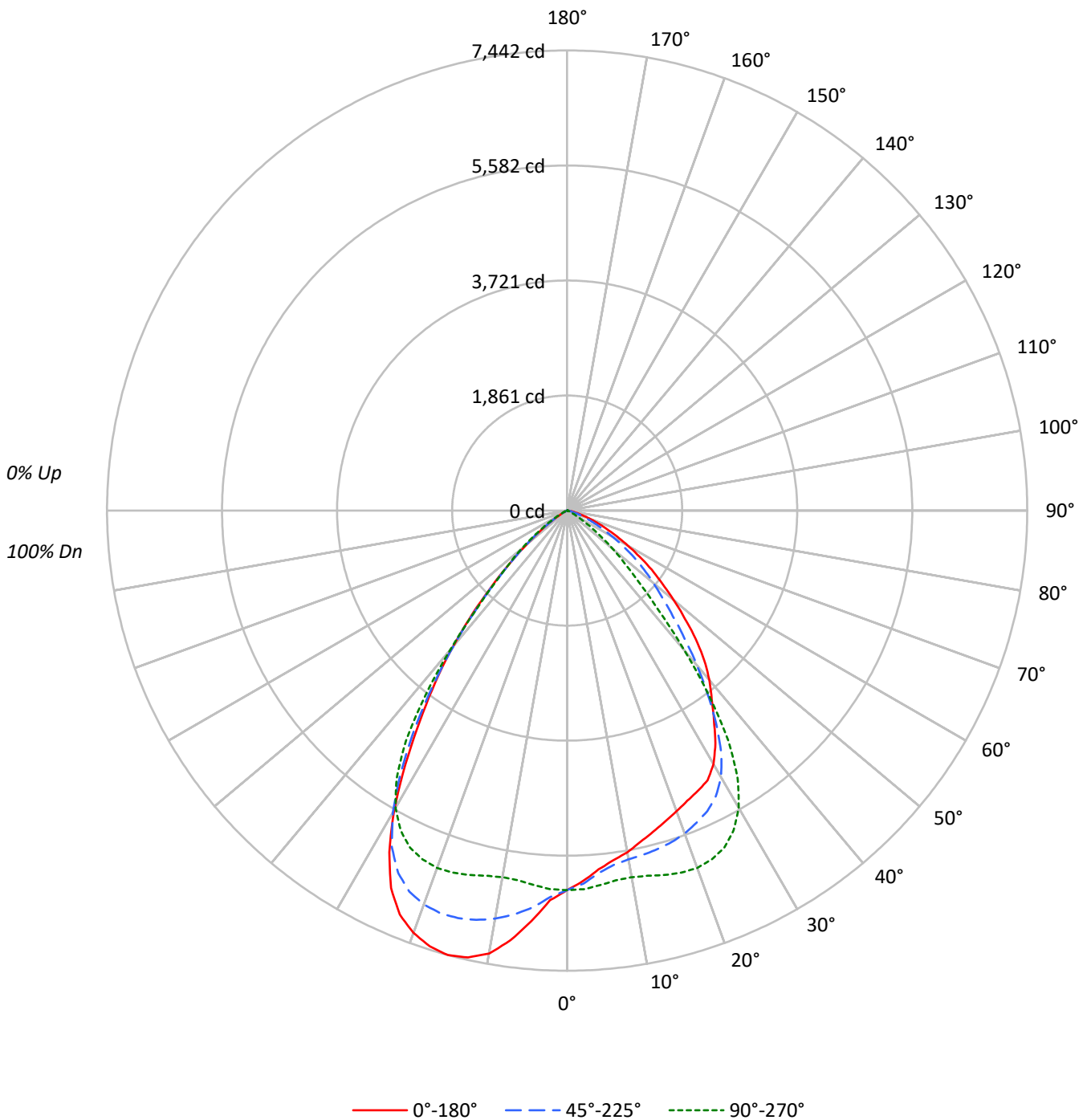
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100			
1	112	109	106	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91	91	91	91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82	82	82	82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73	73	73	73			
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66	66	66	66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60	60	60	60			
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54	54	54	54			
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49	49	49	49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45	45	45	45			
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42	42	42	42			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38	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°	590.0	5.7
10°-20°	1765.8	17.0
20°-30°	2704.2	26.1
30°-40°	2651.0	25.5
40°-50°	1596.4	15.4
50°-60°	734.8	7.1
60°-70°	258.1	2.5
70°-80°	67.5	0.7
80°-90°	11.5	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°	5060.0	48.8
0°-40°	7711.0	74.3
0°-60°	10042.2	96.8
0°-90°	10379.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10379.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6137	6137	6137	6137	6137	
5°	5825	5879	6080	6444	6665	550
15°	5377	5667	6100	6823	7442	1519
25°	5002	5363	6014	6467	6737	2304
35°	4138	4196	4543	4282	4144	2592
45°	2940	2421	1640	1652	1695	2254
55°	1669	1322	470	370	356	1489
65°	708	490	75	37	40	722
75°	184	106	6	0	0	223
85°	29	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°	6137.4	6137.4	6137.4	6137.4	6137.4	6137.4	6137.4	6137.4	6137.4	6137.4	6137.4
2.5°	5993.9	5999.7	5999.7	5999.7	6011.1	6014.1	6011.1	6014.1	6019.8	6039.8	6048.5
5°	5824.7	5816.1	5821.9	5819.0	5833.3	5842.0	5836.2	5844.8	5864.8	5879.3	5893.5
7.5°	5704.3	5704.3	5704.3	5710.0	5718.7	5735.8	5733.0	5738.7	5758.8	5778.9	5798.9
10°	5609.7	5606.8	5606.8	5621.1	5632.6	5652.6	5658.4	5675.6	5701.4	5727.2	5750.2
12.5°	5486.3	5489.2	5503.5	5517.9	5543.7	5575.2	5592.4	5615.4	5655.6	5698.6	5724.4
15°	5377.3	5380.1	5391.8	5420.3	5452.0	5489.2	5526.4	5563.7	5612.5	5667.0	5713.0
17.5°	5271.3	5274.1	5282.7	5314.3	5354.5	5403.2	5446.2	5494.9	5558.0	5621.1	5678.4
20°	5173.8	5170.8	5185.2	5213.9	5265.6	5311.4	5354.5	5411.9	5480.7	5558.0	5623.9
22.5°	5079.0	5079.0	5093.5	5122.2	5168.0	5213.9	5259.7	5319.9	5388.8	5463.4	5540.9
25°	5001.6	4998.8	5018.8	5033.3	5067.6	5113.6	5162.3	5211.0	5279.8	5363.1	5437.5
27.5°	4918.5	4915.7	4918.5	4935.8	4967.3	5001.6	5038.9	5081.9	5139.3	5208.2	5279.8
30°	4735.0	4737.8	4737.8	4752.1	4769.4	4806.6	4826.7	4869.7	4921.3	4978.7	5041.8
32.5°	4462.5	4465.3	4465.3	4471.1	4485.3	4502.6	4519.9	4551.4	4591.5	4640.3	4697.7
35°	4138.5	4138.5	4135.5	4138.5	4147.0	4147.0	4161.4	4147.0	4167.1	4195.8	4238.8
37.5°	3840.1	3834.4	3828.7	3822.9	3814.3	3800.0	3779.9	3745.5	3736.9	3725.4	3728.2
40°	3576.3	3573.5	3556.3	3541.8	3513.2	3478.8	3430.0	3369.8	3321.1	3263.7	3215.0
42.5°	3283.7	3280.8	3266.6	3240.7	3209.2	3157.6	3080.2	2999.9	2902.4	2816.3	2727.5
45°	2939.6	2948.2	2928.2	2899.5	2862.1	2813.4	2727.5	2629.9	2532.3	2420.6	2308.6
47.5°	2581.1	2578.2	2564.0	2546.7	2515.2	2466.4	2409.0	2303.0	2199.6	2096.5	1981.7
50°	2248.4	2237.0	2231.2	2214.1	2194.0	2153.9	2093.6	2007.5	1915.8	1818.3	1712.1
52.5°	1933.1	1933.1	1918.6	1907.2	1889.9	1858.4	1806.8	1738.0	1660.5	1568.7	1457.0
55°	1669.2	1663.3	1649.1	1634.8	1617.5	1597.4	1551.6	1494.2	1411.0	1322.1	1224.6
57.5°	1388.1	1385.1	1379.5	1362.2	1353.6	1333.5	1282.0	1224.6	1152.9	1075.5	995.1
60°	1135.7	1124.3	1112.7	1101.3	1086.9	1066.9	1032.4	983.7	923.5	854.7	774.4
62.5°	909.2	926.3	892.0	892.0	863.3	846.0	814.5	785.8	722.7	659.6	590.8
65°	708.4	708.4	694.0	682.6	665.3	645.2	613.7	585.0	539.1	490.3	441.6
67.5°	542.1	539.1	524.9	513.4	499.0	487.5	464.7	430.1	395.8	355.7	315.4
70°	398.6	395.8	392.9	372.8	361.3	347.1	329.8	306.9	281.0	252.3	215.1
72.5°	286.8	286.8	278.2	269.6	258.2	246.6	229.5	215.1	192.1	172.1	146.3
75°	183.5	180.7	180.7	166.4	166.4	149.1	137.7	129.0	117.6	106.2	83.2
77.5°	131.9	129.0	126.2	120.4	114.8	109.0	100.3	88.9	80.3	68.8	60.2
80°	88.9	83.2	80.3	80.3	71.6	68.8	71.6	54.6	51.6	42.9	37.3
82.5°	54.6	54.6	51.6	51.6	48.8	46.0	37.3	37.3	34.4	31.5	25.9
85°	28.7	37.3	25.9	28.7	25.9	28.7	25.9	20.1	17.3	14.2	14.2
87.5°	17.3	11.4	11.4	17.3	14.2	11.4	11.4	11.4	8.6	5.8	5.8
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	6137.4	6137.4	6137.4	6137.4	6137.4	6137.4	6137.4	6137.4	6137.4	6137.4	6137.4
2.5°	6042.8	6062.8	6059.9	6085.7	6094.3	6114.4	6114.4	6128.7	6137.4	6157.4	6174.6
5°	5899.4	5930.9	5939.5	5971.0	5996.9	6028.4	6048.5	6080.0	6108.7	6151.7	6191.8
7.5°	5810.5	5836.2	5853.4	5890.7	5919.4	5953.7	5988.3	6031.2	6071.3	6123.0	6180.4
10°	5767.3	5801.8	5827.5	5864.8	5899.4	5936.6	5971.0	6019.8	6065.6	6131.6	6194.6
12.5°	5755.9	5796.0	5827.5	5879.3	5913.6	5953.7	5993.9	6048.5	6097.2	6166.1	6237.8
15°	5755.9	5810.5	5853.4	5910.8	5950.9	6002.5	6045.6	6100.0	6154.5	6226.3	6295.1
17.5°	5744.5	5810.5	5864.8	5930.9	5982.4	6034.1	6088.6	6140.3	6197.6	6266.5	6343.7
20°	5698.6	5781.8	5847.7	5925.0	5979.6	6037.0	6091.5	6148.8	6209.1	6280.7	6346.8
22.5°	5618.2	5715.8	5790.4	5873.5	5936.6	5993.9	6048.5	6105.9	6171.8	6240.6	6309.4
25°	5512.2	5603.9	5684.3	5770.2	5833.3	5896.3	5948.1	6014.1	6074.3	6140.3	6194.6
27.5°	5351.5	5449.0	5526.4	5615.4	5672.7	5733.0	5776.0	5830.5	5887.9	5942.3	5985.4
30°	5110.6	5199.5	5279.8	5360.1	5417.5	5460.6	5506.4	5549.5	5586.7	5623.9	5661.3
32.5°	4757.9	4838.2	4915.7	4990.1	5036.1	5073.4	5107.7	5133.6	5153.7	5173.8	5176.6
35°	4273.3	4339.2	4387.9	4453.8	4497.0	4531.3	4531.3	4542.7	4539.9	4531.3	4522.7
37.5°	3731.2	3756.9	3777.0	3802.9	3805.7	3805.7	3788.5	3774.2	3751.3	3745.5	3728.2
40°	3166.3	3131.7	3106.0	3071.5	3051.5	3008.4	2971.2	2945.3	2908.1	2902.4	2896.7
42.5°	2629.9	2549.6	2477.9	2417.7	2348.8	2288.5	2234.2	2194.0	2165.3	2162.4	2165.3
45°	2194.0	2102.2	1996.1	1913.0	1835.5	1760.9	1689.2	1640.5	1614.6	1608.9	1614.6
47.5°	1864.2	1758.1	1654.8	1560.1	1477.0	1393.7	1322.1	1256.1	1224.6	1215.9	1213.1
50°	1603.1	1494.2	1385.1	1287.7	1195.9	1112.7	1023.8	960.8	920.7	906.2	894.8
52.5°	1348.0	1250.5	1138.6	1038.2	946.3	848.8	757.1	685.4	645.2	628.1	616.6
55°	1124.3	1026.7	923.5	826.0	728.4	631.0	539.1	470.3	427.3	407.3	392.9
57.5°	897.6	805.9	717.0	619.5	539.1	444.6	352.7	292.5	255.3	232.3	220.8
60°	694.0	622.4	544.9	464.7	387.2	309.7	235.2	177.8	149.1	131.9	117.6
62.5°	524.9	464.7	413.0	344.1	283.9	217.9	160.6	114.8	88.9	74.7	68.8
65°	378.6	332.6	286.8	243.8	200.8	152.0	109.0	74.7	51.6	42.9	40.1
67.5°	269.6	232.3	197.9	169.2	137.7	109.0	77.5	51.6	40.1	34.4	31.5
70°	189.2	160.6	137.7	111.9	91.7	71.6	60.2	37.3	22.9	25.9	20.1
72.5°	126.2	106.2	94.7	77.5	63.0	51.6	37.3	25.9	25.9	20.1	17.3
75°	68.8	63.0	48.8	37.3	31.5	28.7	11.4	5.8	2.8	8.6	2.8
77.5°	48.8	42.9	37.3	31.5	25.9	20.1	11.4	11.4	8.6	11.4	5.8
80°	31.5	25.9	22.9	22.9	14.2	8.6	5.8	5.8	8.6	2.8	2.8
82.5°	20.1	17.3	14.2	14.2	14.2	8.6	8.6	8.6	8.6	5.8	5.8
85°	11.4	8.6	5.8	5.8	2.8	5.8	0.0	2.8	2.8	0.0	0.0
87.5°	5.8	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°	6137.4	6137.4	6137.4	6137.4	6137.4	6137.4	6137.4	6137.4	6137.4	6137.4	6137.4
2.5°	6186.1	6197.6	6211.9	6223.3	6249.2	6254.8	6266.5	6277.9	6286.6	6295.1	6298.0
5°	6226.3	6269.3	6309.4	6352.4	6407.0	6444.3	6487.2	6524.6	6561.8	6593.4	6616.3
7.5°	6237.8	6303.6	6364.0	6438.5	6518.7	6587.7	6659.3	6730.9	6805.6	6863.0	6911.7
10°	6260.7	6340.9	6418.4	6507.3	6610.5	6702.3	6791.1	6885.9	6980.6	7060.8	7132.6
12.5°	6300.8	6389.7	6472.9	6570.4	6676.6	6779.7	6877.2	6983.4	7083.8	7172.7	7253.0
15°	6366.8	6449.9	6530.3	6622.0	6728.1	6822.9	6920.3	7023.5	7124.0	7215.7	7290.3
17.5°	6409.8	6487.2	6567.5	6650.7	6739.6	6825.7	6917.4	7009.2	7101.0	7184.2	7253.0
20°	6409.8	6484.4	6544.6	6619.2	6702.3	6776.9	6851.6	6931.8	7012.1	7080.9	7146.8
22.5°	6358.2	6429.8	6475.8	6533.2	6604.8	6667.9	6708.1	6797.0	6857.2	6917.4	6966.1
25°	6237.8	6289.4	6326.7	6366.8	6424.2	6467.2	6501.6	6553.3	6613.5	6636.4	6670.7
27.5°	6019.8	6057.1	6077.2	6085.7	6114.4	6137.4	6143.1	6166.1	6191.8	6197.6	6211.9
30°	5675.6	5678.4	5669.9	5667.0	5652.6	5635.5	5632.6	5629.8	5618.2	5606.8	5609.7
32.5°	5156.5	5142.3	5107.7	5070.5	5033.3	4993.2	4970.1	4941.4	4924.2	4907.1	4887.0
35°	4485.3	4451.0	4402.3	4356.3	4313.4	4281.8	4230.2	4212.9	4195.8	4172.8	4167.1
37.5°	3696.7	3676.7	3630.7	3596.4	3573.5	3559.1	3533.3	3516.1	3516.1	3507.5	3501.7
40°	2882.2	2876.6	2859.3	2868.0	2856.4	2862.1	2859.3	2853.5	2868.0	2868.0	2873.7
42.5°	2162.4	2165.3	2174.0	2179.6	2196.8	2199.6	2214.1	2214.1	2222.7	2231.2	2237.0
45°	1608.9	1620.4	1620.4	1631.8	1649.1	1651.9	1657.6	1660.5	1666.3	1680.6	1686.3
47.5°	1207.4	1210.2	1210.2	1213.1	1218.9	1224.6	1221.8	1224.6	1233.2	1227.5	1233.2
50°	892.0	894.8	886.2	877.5	886.2	886.2	883.3	874.7	883.3	871.9	877.5
52.5°	608.0	605.1	596.5	599.4	593.7	590.8	590.8	585.0	585.0	585.0	573.6
55°	384.4	384.4	378.6	378.6	375.8	369.9	367.1	364.2	361.3	358.5	358.5
57.5°	215.1	217.9	209.4	206.5	209.4	206.5	200.8	200.8	200.8	192.1	197.9
60°	117.6	114.8	111.9	109.0	106.2	109.0	109.0	103.2	103.2	103.2	106.2
62.5°	63.0	63.0	60.2	60.2	57.4	57.4	63.0	54.6	57.4	54.6	57.4
65°	34.4	42.9	31.5	31.5	40.1	37.3	34.4	34.4	37.3	31.5	34.4
67.5°	37.3	25.9	22.9	25.9	22.9	22.9	22.9	28.7	25.9	20.1	25.9
70°	17.3	20.1	20.1	14.2	22.9	11.4	20.1	11.4	17.3	14.2	17.3
72.5°	17.3	17.3	17.3	11.4	17.3	11.4	14.2	14.2	11.4	11.4	17.3
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°	5.8	5.8	2.8	2.8	2.8	2.8	5.8	5.8	5.8	0.0	2.8
80°	5.8	5.8	0.0	2.8	0.0	0.0	2.8	0.0	2.8	0.0	5.8
82.5°	2.8	5.8	2.8	2.8	5.8	5.8	5.8	2.8	2.8	2.8	2.8
85°	0.0	2.8	0.0	0.0	0.0	0.0	5.8	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: P250284

CATALOG NUMBER: LSR8B120D010 EC8B120930 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	6137.4	6137.4	6137.4	6137.4
2.5°	6300.8	6303.6	6309.4	6306.6
5°	6633.5	6656.5	6667.9	6665.1
7.5°	6946.1	6986.3	7009.2	7009.2
10°	7187.0	7232.9	7267.2	7273.0
12.5°	7316.0	7367.8	7413.6	7402.1
15°	7353.3	7405.0	7450.8	7442.2
17.5°	7310.4	7361.9	7396.4	7390.6
20°	7192.8	7235.7	7270.2	7267.2
22.5°	7009.2	7046.5	7075.2	7072.3
25°	6699.4	6725.3	6748.2	6736.8
27.5°	6223.3	6232.0	6246.3	6229.2
30°	5589.6	5595.2	5601.1	5598.2
32.5°	4878.4	4875.5	4869.7	4864.0
35°	4158.6	4158.6	4161.4	4144.1
37.5°	3504.6	3501.7	3510.3	3501.7
40°	2879.4	2876.6	2888.0	2873.7
42.5°	2245.6	2254.2	2257.0	2257.0
45°	1689.2	1692.0	1695.0	1695.0
47.5°	1233.2	1236.0	1250.5	1233.2
50°	871.9	874.7	877.5	871.9
52.5°	576.4	579.3	576.4	567.8
55°	352.7	355.7	355.7	355.7
57.5°	189.2	192.1	192.1	189.2
60°	103.2	100.3	103.2	97.5
62.5°	54.6	60.2	57.4	51.6
65°	34.4	34.4	34.4	40.1
67.5°	28.7	22.9	25.9	20.1
70°	17.3	20.1	20.1	14.2
72.5°	14.2	14.2	14.2	17.3
75°	0.0	0.0	0.0	0.0
77.5°	5.8	5.8	5.8	2.8
80°	2.8	0.0	2.8	0.0
82.5°	2.8	2.8	5.8	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)