

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 EC8B1209730 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 EC8B1209730 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: 9259.0 lumens
Efficiency: N/A
Efficacy: 78.3 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

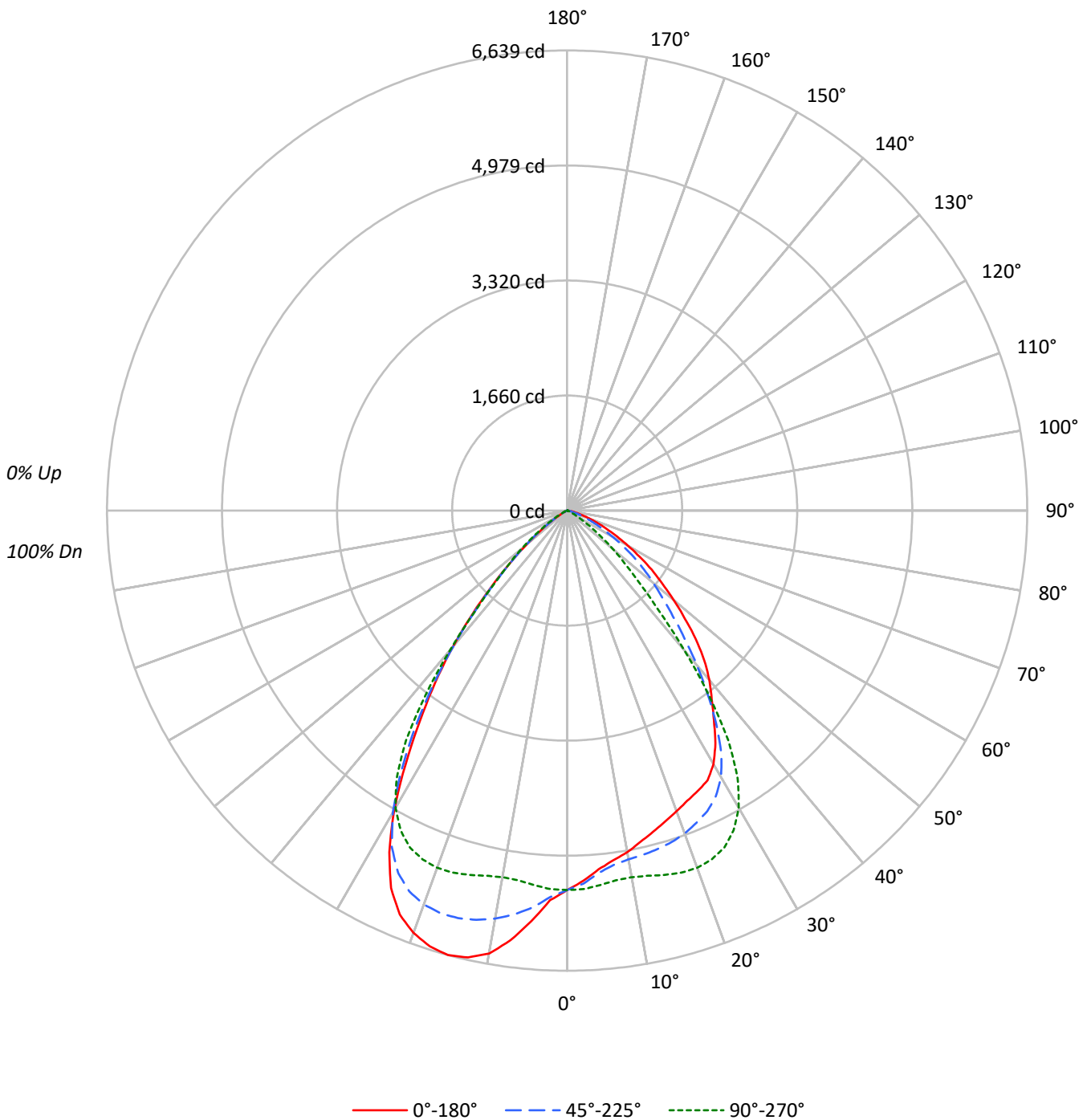
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	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°	526.3	5.7
10°-20°	1575.2	17.0
20°-30°	2412.3	26.1
30°-40°	2364.8	25.5
40°-50°	1424.1	15.4
50°-60°	655.5	7.1
60°-70°	230.3	2.5
70°-80°	60.2	0.7
80°-90°	10.3	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°	4513.8	48.8
0°-40°	6878.7	74.3
0°-60°	8958.2	96.8
0°-90°	9259.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9259.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5475	5475	5475	5475	5475	
5°	5196	5245	5424	5749	5946	491
15°	4797	5055	5442	6086	6639	1355
25°	4462	4784	5365	5769	6010	2055
35°	3692	3743	4052	3820	3697	2312
45°	2622	2159	1463	1474	1512	2011
55°	1489	1179	420	330	317	1329
65°	632	437	67	33	36	644
75°	164	95	5	0	0	199
85°	26	13	2	0	0	35
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°	5474.9	5474.9	5474.9	5474.9	5474.9	5474.9	5474.9	5474.9	5474.9	5474.9	5474.9
2.5°	5346.9	5352.1	5352.1	5352.1	5362.3	5364.9	5362.3	5364.9	5370.0	5387.9	5395.6
5°	5196.0	5188.3	5193.5	5190.9	5203.7	5211.4	5206.2	5213.9	5231.8	5244.7	5257.4
7.5°	5088.6	5088.6	5088.6	5093.7	5101.4	5116.7	5114.2	5119.3	5137.2	5155.1	5173.0
10°	5004.2	5001.6	5001.6	5014.4	5024.6	5042.5	5047.6	5063.0	5086.0	5109.0	5129.5
12.5°	4894.1	4896.7	4909.5	4922.3	4945.3	4973.4	4988.8	5009.3	5045.1	5083.5	5106.5
15°	4796.9	4799.4	4809.8	4835.2	4863.5	4896.7	4929.9	4963.2	5006.7	5055.3	5096.3
17.5°	4702.3	4704.8	4712.5	4740.7	4776.5	4820.0	4858.3	4901.8	4958.1	5014.4	5065.5
20°	4615.3	4612.7	4625.5	4651.1	4697.2	4738.1	4776.5	4827.7	4889.1	4958.1	5016.9
22.5°	4530.8	4530.8	4543.7	4569.3	4610.2	4651.1	4692.0	4745.7	4807.1	4873.7	4942.8
25°	4461.7	4459.2	4477.1	4490.0	4520.6	4561.6	4605.1	4648.5	4709.9	4784.2	4850.6
27.5°	4387.6	4385.1	4387.6	4403.0	4431.1	4461.7	4495.0	4533.4	4584.6	4646.0	4709.9
30°	4223.9	4226.4	4226.4	4239.2	4254.6	4287.8	4305.7	4344.1	4390.1	4441.3	4497.6
32.5°	3980.8	3983.3	3983.3	3988.5	4001.2	4016.6	4032.0	4060.1	4095.9	4139.4	4190.6
35°	3691.8	3691.8	3689.1	3691.8	3699.4	3699.4	3712.2	3699.4	3717.3	3742.9	3781.3
37.5°	3425.6	3420.5	3415.4	3410.3	3402.6	3389.8	3371.9	3341.2	3333.5	3323.3	3325.8
40°	3190.3	3187.8	3172.4	3159.5	3134.0	3103.3	3059.8	3006.1	2962.6	2911.4	2868.0
42.5°	2929.3	2926.7	2914.0	2890.9	2862.8	2816.8	2747.7	2676.1	2589.1	2512.3	2433.1
45°	2622.3	2630.0	2612.1	2586.5	2553.2	2509.7	2433.1	2346.0	2259.0	2159.3	2059.4
47.5°	2302.5	2299.9	2287.2	2271.8	2243.7	2200.2	2149.0	2054.4	1962.2	1870.2	1767.8
50°	2005.7	1995.5	1990.4	1975.1	1957.2	1921.4	1867.6	1790.8	1709.0	1622.0	1527.3
52.5°	1724.4	1724.4	1711.5	1701.3	1685.9	1657.8	1611.8	1550.4	1481.3	1399.4	1299.7
55°	1489.0	1483.8	1471.1	1458.3	1442.9	1425.0	1384.1	1332.9	1258.7	1179.4	1092.4
57.5°	1238.3	1235.6	1230.6	1215.2	1207.5	1189.6	1143.6	1092.4	1028.5	959.4	887.7
60°	1013.1	1002.9	992.6	982.4	969.6	951.7	921.0	877.5	823.8	762.4	690.8
62.5°	811.1	826.3	795.7	795.7	770.1	754.7	726.6	701.0	644.7	588.4	527.0
65°	631.9	631.9	619.1	608.9	593.5	575.6	547.5	521.9	480.9	437.4	393.9
67.5°	483.6	480.9	468.2	458.0	445.1	434.9	414.5	383.7	353.1	317.3	281.4
70°	355.6	353.1	350.5	332.6	322.3	309.6	294.2	273.8	250.7	225.1	191.9
72.5°	255.8	255.8	248.2	240.5	230.3	220.0	204.7	191.9	171.4	153.5	130.5
75°	163.7	161.2	161.2	148.4	148.4	133.0	122.8	115.1	104.9	94.7	74.2
77.5°	117.7	115.1	112.6	107.4	102.4	97.2	89.5	79.3	71.6	61.4	53.7
80°	79.3	74.2	71.6	71.6	63.9	61.4	63.9	48.7	46.0	38.3	33.3
82.5°	48.7	48.7	46.0	46.0	43.5	41.0	33.3	33.3	30.7	28.1	23.1
85°	25.6	33.3	23.1	25.6	23.1	25.6	23.1	17.9	15.4	12.7	12.7
87.5°	15.4	10.2	10.2	15.4	12.7	10.2	10.2	10.2	7.7	5.2	5.2
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°	5474.9	5474.9	5474.9	5474.9	5474.9	5474.9	5474.9	5474.9	5474.9	5474.9	5474.9
2.5°	5390.5	5408.4	5405.8	5428.8	5436.5	5454.4	5454.4	5467.2	5474.9	5492.8	5508.1
5°	5262.6	5290.7	5298.4	5326.5	5349.6	5377.7	5395.6	5423.7	5449.3	5487.7	5523.5
7.5°	5183.3	5206.2	5221.6	5254.9	5280.5	5311.1	5341.9	5380.2	5416.0	5462.1	5513.3
10°	5144.8	5175.6	5198.5	5231.8	5262.6	5295.8	5326.5	5370.0	5410.9	5469.8	5526.0
12.5°	5134.6	5170.4	5198.5	5244.7	5275.3	5311.1	5346.9	5395.6	5439.1	5500.5	5564.5
15°	5134.6	5183.3	5221.6	5272.8	5308.6	5354.6	5393.0	5441.6	5490.2	5554.2	5615.6
17.5°	5124.4	5183.3	5231.8	5290.7	5336.7	5382.8	5431.4	5477.5	5528.6	5590.1	5659.0
20°	5083.5	5157.7	5216.5	5285.5	5334.2	5385.4	5434.0	5485.1	5538.9	5602.8	5661.7
22.5°	5011.8	5098.8	5165.4	5239.5	5295.8	5346.9	5395.6	5446.8	5505.6	5567.0	5628.4
25°	4917.2	4999.0	5070.7	5147.4	5203.7	5259.9	5306.1	5364.9	5418.6	5477.5	5526.0
27.5°	4773.9	4860.8	4929.9	5009.3	5060.4	5114.2	5152.5	5201.2	5252.4	5300.9	5339.3
30°	4559.0	4638.3	4709.9	4781.5	4832.7	4871.2	4912.0	4950.5	4983.7	5016.9	5050.2
32.5°	4244.3	4316.0	4385.1	4451.5	4492.5	4525.8	4556.4	4579.5	4597.4	4615.3	4617.8
35°	3812.0	3870.8	3914.3	3973.1	4011.6	4042.2	4042.2	4052.4	4049.9	4042.2	4034.5
37.5°	3328.5	3351.4	3369.3	3392.4	3394.9	3394.9	3379.6	3366.8	3346.4	3341.2	3325.8
40°	2824.5	2793.7	2770.7	2740.0	2722.1	2683.7	2650.5	2627.4	2594.2	2589.1	2584.0
42.5°	2346.0	2274.4	2210.4	2156.7	2095.3	2041.5	1993.0	1957.2	1931.6	1929.0	1931.6
45°	1957.2	1875.3	1780.6	1706.5	1637.4	1570.8	1506.9	1463.4	1440.3	1435.2	1440.3
47.5°	1663.0	1568.3	1476.2	1391.7	1317.6	1243.3	1179.4	1120.5	1092.4	1084.7	1082.2
50°	1430.1	1332.9	1235.6	1148.7	1066.8	992.6	913.3	857.1	821.3	808.4	798.2
52.5°	1202.5	1115.5	1015.7	926.1	844.2	757.2	675.4	611.4	575.6	560.3	550.0
55°	1002.9	915.9	823.8	736.8	649.8	562.9	480.9	419.5	381.2	363.3	350.5
57.5°	800.7	718.9	639.6	552.6	480.9	396.6	314.6	260.9	227.7	207.2	197.0
60°	619.1	555.2	486.1	414.5	345.4	276.3	209.8	158.6	133.0	117.7	104.9
62.5°	468.2	414.5	368.4	307.0	253.3	194.4	143.3	102.4	79.3	66.6	61.4
65°	337.7	296.7	255.8	217.5	179.1	135.6	97.2	66.6	46.0	38.3	35.8
67.5°	240.5	207.2	176.5	150.9	122.8	97.2	69.1	46.0	35.8	30.7	28.1
70°	168.8	143.3	122.8	99.8	81.8	63.9	53.7	33.3	20.4	23.1	17.9
72.5°	112.6	94.7	84.5	69.1	56.2	46.0	33.3	23.1	23.1	17.9	15.4
75°	61.4	56.2	43.5	33.3	28.1	25.6	10.2	5.2	2.5	7.7	2.5
77.5°	43.5	38.3	33.3	28.1	23.1	17.9	10.2	10.2	7.7	10.2	5.2
80°	28.1	23.1	20.4	20.4	12.7	7.7	5.2	5.2	7.7	2.5	2.5
82.5°	17.9	15.4	12.7	12.7	12.7	7.7	7.7	7.7	7.7	5.2	5.2
85°	10.2	7.7	5.2	5.2	2.5	5.2	0.0	2.5	2.5	0.0	0.0
87.5°	5.2	2.5	2.5	2.5	2.5	0.0	0.0	2.5	0.0	2.5	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°	5474.9	5474.9	5474.9	5474.9	5474.9	5474.9	5474.9	5474.9	5474.9	5474.9	5474.9
2.5°	5518.4	5528.6	5541.4	5551.6	5574.7	5579.7	5590.1	5600.3	5608.0	5615.6	5618.2
5°	5554.2	5592.6	5628.4	5666.7	5715.4	5748.7	5787.0	5820.3	5853.5	5881.7	5902.1
7.5°	5564.5	5623.2	5677.1	5743.5	5815.1	5876.6	5940.5	6004.4	6071.0	6122.2	6165.7
10°	5584.9	5656.5	5725.6	5804.9	5897.0	5978.9	6058.1	6142.6	6227.1	6298.7	6362.7
12.5°	5620.7	5700.0	5774.2	5861.2	5955.9	6047.9	6134.9	6229.6	6319.2	6398.5	6470.1
15°	5679.6	5753.7	5825.4	5907.2	6001.9	6086.4	6173.3	6265.4	6355.0	6436.8	6503.4
17.5°	5717.9	5787.0	5858.6	5932.8	6012.1	6088.9	6170.7	6252.6	6334.5	6408.7	6470.1
20°	5717.9	5784.5	5838.2	5904.7	5978.9	6045.4	6112.0	6183.6	6255.2	6316.6	6375.4
22.5°	5671.9	5735.8	5776.8	5828.0	5891.9	5948.2	5984.0	6063.3	6117.0	6170.7	6214.2
25°	5564.5	5610.5	5643.8	5679.6	5730.8	5769.1	5799.8	5845.9	5899.6	5920.1	5950.7
27.5°	5370.0	5403.3	5421.2	5428.8	5454.4	5474.9	5480.0	5500.5	5523.5	5528.6	5541.4
30°	5063.0	5065.5	5057.9	5055.3	5042.5	5027.2	5024.6	5022.1	5011.8	5001.6	5004.2
32.5°	4599.9	4587.2	4556.4	4523.2	4490.0	4454.2	4433.6	4408.0	4392.7	4377.4	4359.5
35°	4001.2	3970.6	3927.1	3886.1	3847.8	3819.6	3773.6	3758.2	3742.9	3722.4	3717.3
37.5°	3297.7	3279.8	3238.8	3208.2	3187.8	3174.9	3151.9	3136.6	3136.6	3128.9	3123.7
40°	2571.1	2566.1	2550.7	2558.4	2548.1	2553.2	2550.7	2545.5	2558.4	2558.4	2563.5
42.5°	1929.0	1931.6	1939.3	1944.3	1959.7	1962.2	1975.1	1975.1	1982.8	1990.4	1995.5
45°	1435.2	1445.5	1445.5	1455.7	1471.1	1473.6	1478.7	1481.3	1486.4	1499.2	1504.3
47.5°	1077.1	1079.6	1079.6	1082.2	1087.3	1092.4	1089.9	1092.4	1100.1	1095.0	1100.1
50°	795.7	798.2	790.5	782.8	790.5	790.5	788.0	780.3	788.0	777.8	782.8
52.5°	542.4	539.8	532.1	534.7	529.6	527.0	527.0	521.9	521.9	521.9	511.7
55°	342.9	342.9	337.7	337.7	335.2	330.0	327.5	324.9	322.3	319.8	319.8
57.5°	191.9	194.4	186.8	184.2	186.8	184.2	179.1	179.1	179.1	171.4	176.5
60°	104.9	102.4	99.8	97.2	94.7	97.2	97.2	92.1	92.1	92.1	94.7
62.5°	56.2	56.2	53.7	53.7	51.2	51.2	56.2	48.7	51.2	48.7	51.2
65°	30.7	38.3	28.1	28.1	35.8	33.3	30.7	30.7	33.3	28.1	30.7
67.5°	33.3	23.1	20.4	23.1	20.4	20.4	20.4	25.6	23.1	17.9	23.1
70°	15.4	17.9	17.9	12.7	20.4	10.2	17.9	10.2	15.4	12.7	15.4
72.5°	15.4	15.4	15.4	10.2	15.4	10.2	12.7	12.7	10.2	10.2	15.4
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°	5.2	5.2	2.5	2.5	2.5	2.5	5.2	5.2	5.2	0.0	2.5
80°	5.2	5.2	0.0	2.5	0.0	0.0	2.5	0.0	2.5	0.0	5.2
82.5°	2.5	5.2	2.5	2.5	5.2	5.2	5.2	2.5	2.5	2.5	2.5
85°	0.0	2.5	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	2.5
87.5°	0.0	2.5	0.0	0.0	0.0	0.0	2.5	2.5	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 EC8B1209730 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	5474.9	5474.9	5474.9	5474.9
2.5°	5620.7	5623.2	5628.4	5625.9
5°	5917.5	5938.0	5948.2	5945.7
7.5°	6196.3	6232.2	6252.6	6252.6
10°	6411.2	6452.2	6482.8	6488.0
12.5°	6526.3	6572.5	6613.4	6603.1
15°	6559.6	6605.7	6646.6	6638.9
17.5°	6521.3	6567.3	6598.0	6592.9
20°	6416.4	6454.7	6485.5	6482.8
22.5°	6252.6	6285.9	6311.5	6308.9
25°	5976.3	5999.4	6019.8	6009.6
27.5°	5551.6	5559.3	5572.1	5556.8
30°	4986.3	4991.3	4996.5	4993.9
32.5°	4351.8	4349.2	4344.1	4339.0
35°	3709.7	3709.7	3712.2	3696.8
37.5°	3126.3	3123.7	3131.4	3123.7
40°	2568.6	2566.1	2576.3	2563.5
42.5°	2003.2	2010.9	2013.4	2013.4
45°	1506.9	1509.4	1512.0	1512.0
47.5°	1100.1	1102.6	1115.5	1100.1
50°	777.8	780.3	782.8	777.8
52.5°	514.2	516.8	514.2	506.5
55°	314.6	317.3	317.3	317.3
57.5°	168.8	171.4	171.4	168.8
60°	92.1	89.5	92.1	87.0
62.5°	48.7	53.7	51.2	46.0
65°	30.7	30.7	30.7	35.8
67.5°	25.6	20.4	23.1	17.9
70°	15.4	17.9	17.9	12.7
72.5°	12.7	12.7	12.7	15.4
75°	0.0	0.0	0.0	0.0
77.5°	5.2	5.2	5.2	2.5
80°	2.5	0.0	2.5	0.0
82.5°	2.5	2.5	5.2	2.5
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)