

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: P248457

Luminaire Tested: **LSR8B120D010 EC8B120835 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248457
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120835 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12601.0 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

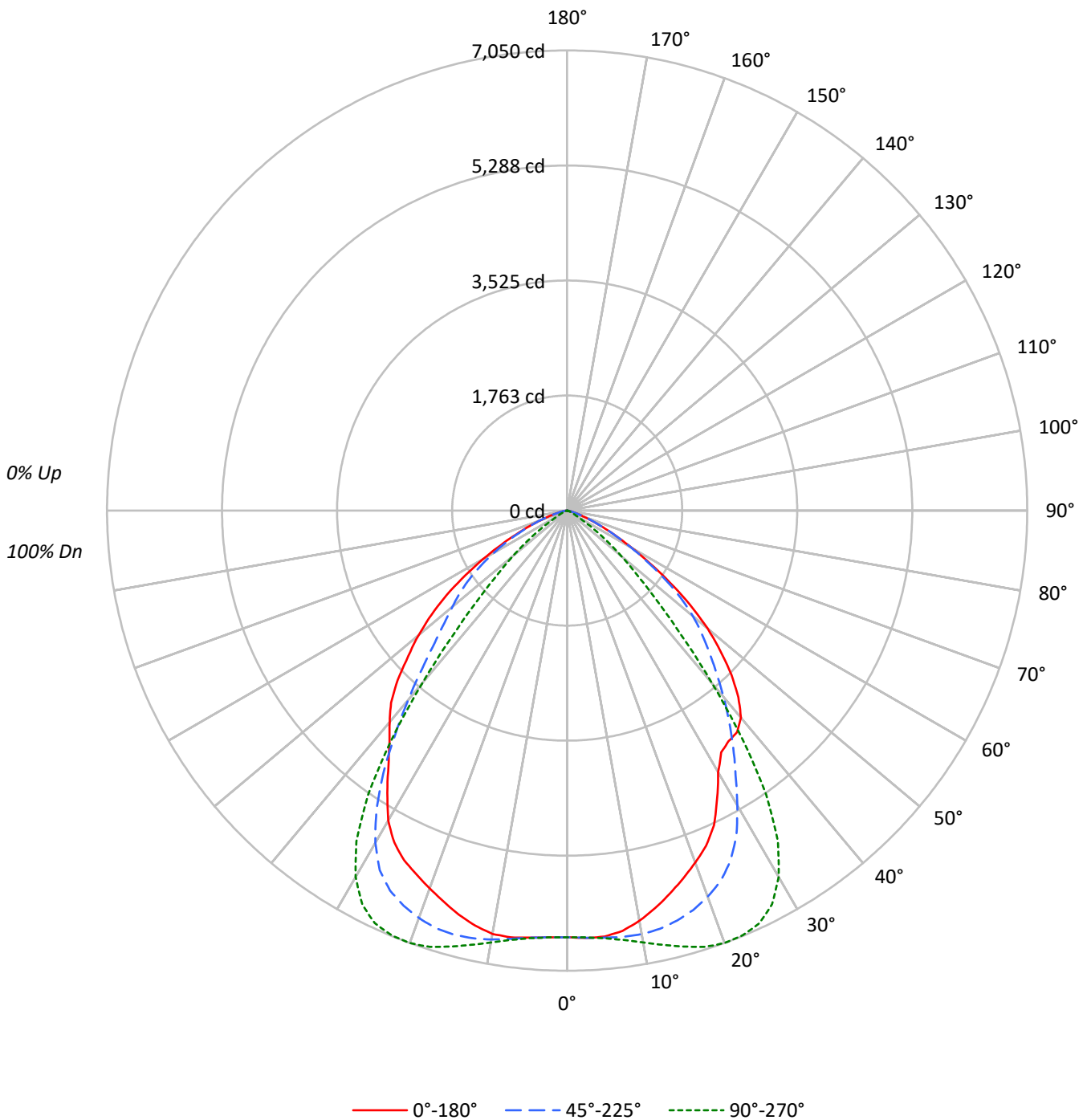
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	201577	201577	201577
5°	202777	203529	203313
10°	199796	210335	206208
15°	193955	220762	204589
20°	188327	231364	202103
25°	181097	237291	201164
30°	164809	230785	195203
35°	162356	199973	179597
40°	166768	138691	170258
45°	155249	83825	160089
50°	134660	51767	142652
55°	103340	27047	121065
60°	70399	10910	91374
65°	43794	5567	63034
70°	23775	3444	38480
75°	12403	1644	22744
80°	5540	1847	12324
85°	3680	1238	11039



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	628.6	5.0
10°-20°	1862.3	14.8
20°-30°	2841.1	22.5
30°-40°	2964.8	23.5
40°-50°	2226.9	17.7
50°-60°	1370.2	10.9
60°-70°	557.6	4.4
70°-80°	131.4	1.0
80°-90°	18.1	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°	5332.1	42.3
0°-40°	8296.8	65.8
0°-60°	11893.9	94.4
0°-90°	12601.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12601.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6537	6537	6537	6537	6537	
5°	6551	6568	6575	6568	6568	620
15°	6076	6502	6915	6724	6409	1711
25°	5323	5919	6974	6422	5912	2420
35°	4313	4434	5312	4910	4771	2723
45°	3560	3081	1922	2870	3671	2716
55°	1922	1825	503	1825	2252	1728
65°	600	607	76	815	864	626
75°	104	104	14	184	191	125
85°	10	10	4	24	31	15
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°	6537.0	6537.0	6537.0	6537.0	6537.0	6537.0	6537.0	6537.0	6537.0	6537.0	6537.0
2.5°	6554.4	6543.9	6554.4	6554.4	6557.8	6550.9	6554.4	6557.8	6550.9	6550.9	6550.9
5°	6550.9	6543.9	6550.9	6547.4	6554.4	6554.4	6561.3	6561.3	6568.2	6568.2	6578.6
7.5°	6495.4	6481.5	6495.4	6505.8	6512.7	6526.6	6543.9	6557.8	6571.7	6585.6	6602.9
10°	6380.8	6380.8	6391.3	6412.1	6432.9	6457.2	6488.4	6523.1	6557.8	6589.0	6620.2
12.5°	6238.6	6228.2	6249.0	6276.7	6308.0	6346.2	6394.7	6446.8	6502.3	6564.7	6613.4
15°	6075.5	6065.1	6089.4	6117.1	6155.3	6210.9	6269.9	6339.2	6419.0	6502.3	6582.1
17.5°	5909.0	5905.5	5929.8	5968.0	5999.2	6058.1	6134.5	6217.7	6308.0	6419.0	6523.1
20°	5739.0	5735.5	5759.8	5791.0	5832.6	5888.2	5964.5	6061.6	6169.2	6294.1	6415.5
22.5°	5562.0	5565.5	5586.3	5621.0	5655.7	5714.6	5794.4	5891.6	6009.6	6144.9	6280.2
25°	5322.6	5305.2	5333.0	5367.7	5426.6	5475.2	5551.6	5655.7	5777.1	5919.4	6079.0
27.5°	4975.6	4972.1	4996.5	5027.6	5079.7	5138.7	5222.0	5329.5	5457.9	5614.0	5770.1
30°	4628.6	4635.6	4646.0	4677.2	4711.9	4770.9	4854.2	4944.4	5065.8	5215.0	5381.6
32.5°	4392.7	4392.7	4406.6	4427.4	4451.7	4482.9	4541.9	4607.8	4701.5	4805.6	4927.0
35°	4312.9	4299.0	4312.9	4316.3	4319.8	4326.8	4337.1	4358.0	4389.2	4434.3	4479.4
37.5°	4278.2	4267.8	4267.8	4253.9	4236.5	4215.7	4188.0	4156.7	4122.1	4076.9	4042.3
40°	4142.9	4135.9	4129.0	4115.1	4076.9	4035.3	3990.2	3917.3	3837.5	3726.5	3615.5
42.5°	3882.7	3875.7	3872.2	3844.5	3809.8	3761.2	3709.1	3632.8	3532.2	3389.9	3230.3
45°	3560.0	3546.1	3535.7	3511.4	3487.1	3445.4	3396.9	3327.4	3226.8	3081.1	2890.3
47.5°	3185.2	3178.3	3174.8	3164.4	3140.2	3115.8	3084.6	3029.1	2938.9	2800.0	2602.3
50°	2807.0	2793.2	2800.0	2796.6	2786.2	2768.9	2748.0	2709.9	2640.4	2515.6	2335.1
52.5°	2373.3	2373.3	2369.9	2380.2	2383.7	2380.2	2383.7	2342.1	2283.1	2189.4	2036.7
55°	1922.2	1922.2	1932.6	1946.6	1960.4	1963.9	1960.4	1943.1	1901.4	1825.1	1689.7
57.5°	1498.9	1492.0	1512.8	1533.6	1547.5	1561.4	1550.9	1537.1	1512.8	1450.3	1346.2
60°	1141.5	1141.5	1155.4	1169.3	1183.2	1197.1	1193.6	1190.1	1169.3	1127.6	1044.4
62.5°	839.7	843.1	843.1	853.6	867.4	881.3	891.7	881.3	870.9	843.1	787.6
65°	600.2	596.8	600.2	610.7	621.1	635.0	641.9	638.4	628.0	607.2	565.6
67.5°	402.5	399.0	412.9	416.3	423.3	437.2	433.7	437.2	433.7	416.3	381.7
70°	263.7	256.7	263.7	260.2	270.7	274.1	281.0	284.5	281.0	270.7	260.2
72.5°	163.1	159.6	163.1	166.6	170.1	173.5	180.4	180.4	176.9	170.1	156.1
75°	104.1	93.6	97.1	90.2	97.1	97.1	104.1	107.6	104.1	104.1	97.1
77.5°	62.5	62.5	62.5	62.5	62.5	62.5	62.5	66.0	69.4	62.5	59.0
80°	31.2	31.2	34.7	34.7	34.7	38.2	34.7	34.7	34.7	38.2	27.8
82.5°	24.3	20.8	20.8	20.8	24.3	20.8	20.8	20.8	20.8	20.8	20.8
85°	10.4	13.8	10.4	7.0	10.4	10.4	13.8	10.4	10.4	10.4	13.8
87.5°	3.5	3.5	0.0	0.0	0.0	3.5	0.0	3.5	3.5	7.0	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	6537.0	6537.0	6537.0	6537.0	6537.0	6537.0	6537.0	6537.0	6537.0	6537.0	6537.0
2.5°	6554.4	6547.4	6547.4	6543.9	6550.9	6543.9	6547.4	6543.9	6543.9	6550.9	6543.9
5°	6578.6	6582.1	6575.2	6571.7	6582.1	6582.1	6582.1	6575.2	6575.2	6578.6	6575.2
7.5°	6613.4	6620.2	6623.7	6627.2	6634.2	6637.6	6637.6	6634.2	6630.7	6641.1	6627.2
10°	6651.5	6661.9	6682.7	6693.2	6710.5	6710.5	6717.4	6717.4	6710.5	6717.4	6714.0
12.5°	6637.6	6700.0	6734.8	6759.0	6783.3	6804.1	6811.1	6814.6	6811.1	6825.0	6811.1
15°	6661.9	6714.0	6769.5	6811.1	6856.2	6880.5	6887.4	6915.2	6922.1	6925.6	6904.8
17.5°	6623.7	6717.4	6776.4	6838.9	6904.8	6949.9	6991.5	7008.9	7012.4	7019.3	6991.5
20°	6537.0	6641.1	6731.3	6821.5	6897.9	6967.2	7001.9	7050.5	7036.7	7064.4	7026.2
22.5°	6419.0	6537.0	6651.5	6769.5	6849.3	6932.6	7005.4	7040.1	7057.5	7057.5	7015.8
25°	6231.7	6370.5	6495.4	6616.8	6738.2	6838.9	6922.1	6974.2	6984.6	6981.1	6932.6
27.5°	5940.2	6089.4	6235.1	6373.9	6523.1	6641.1	6738.2	6800.7	6818.1	6818.1	6766.0
30°	5537.7	5697.3	5839.6	6006.1	6158.8	6290.7	6426.0	6481.5	6512.7	6512.7	6453.8
32.5°	5058.9	5194.2	5326.0	5489.1	5655.7	5804.9	5933.2	6009.6	6047.8	6044.3	5992.2
35°	4538.4	4604.3	4705.0	4826.4	4975.6	5114.4	5239.3	5312.2	5378.1	5374.6	5326.0
37.5°	4017.9	4000.6	4011.0	4056.1	4149.8	4247.0	4344.1	4413.5	4469.0	4493.4	4482.9
40°	3507.9	3417.7	3330.9	3299.8	3306.6	3341.4	3393.4	3445.4	3507.9	3539.2	3553.0
42.5°	3049.9	2897.3	2744.5	2630.1	2564.1	2543.3	2567.6	2584.9	2623.1	2668.2	2713.4
45°	2682.1	2477.4	2276.1	2099.2	1988.2	1922.2	1908.4	1922.2	1943.1	1988.2	2047.2
47.5°	2380.2	2140.8	1915.3	1717.5	1554.4	1467.7	1443.4	1436.5	1457.3	1498.9	1578.7
50°	2113.0	1873.6	1623.9	1394.8	1224.8	1127.6	1093.0	1079.1	1103.3	1134.6	1207.4
52.5°	1821.6	1585.7	1328.9	1106.8	929.9	829.3	791.1	770.3	784.1	825.8	898.7
55°	1505.9	1287.2	1054.8	825.8	655.8	562.1	517.0	503.1	517.0	562.1	635.0
57.5°	1190.1	1006.2	811.9	596.8	444.1	350.5	305.3	291.5	329.7	347.0	423.3
60°	929.9	780.7	614.2	437.2	305.3	232.5	187.4	176.9	194.3	225.5	288.0
62.5°	697.4	603.7	471.9	312.3	225.5	149.2	124.9	114.5	124.9	149.2	197.8
65°	506.6	433.7	329.7	229.0	152.6	111.0	83.3	76.3	86.8	104.1	145.8
67.5°	347.0	291.5	229.0	159.6	104.1	69.4	59.0	59.0	62.5	76.3	107.6
70°	225.5	190.9	145.8	104.1	69.4	52.0	45.1	38.2	45.1	55.5	72.8
72.5°	142.3	121.4	93.6	72.8	52.0	38.2	31.2	27.8	34.7	41.6	55.5
75°	86.8	66.0	48.6	38.2	27.8	27.8	27.8	13.8	17.3	27.8	34.7
77.5°	52.0	45.1	38.2	31.2	24.3	13.8	13.8	13.8	17.3	20.8	31.2
80°	27.8	24.3	17.3	17.3	13.8	10.4	13.8	10.4	7.0	17.3	20.8
82.5°	17.3	13.8	13.8	13.8	17.3	7.0	10.4	7.0	10.4	13.8	10.4
85°	10.4	10.4	10.4	7.0	17.3	7.0	7.0	3.5	3.5	7.0	7.0
87.5°	0.0	3.5	3.5	0.0	3.5	0.0	3.5	3.5	3.5	3.5	3.5
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°	6537.0	6537.0	6537.0	6537.0	6537.0	6537.0	6537.0	6537.0	6537.0	6537.0	6537.0
2.5°	6547.4	6543.9	6547.4	6543.9	6543.9	6543.9	6547.4	6547.4	6543.9	6543.9	6550.9
5°	6575.2	6575.2	6575.2	6571.7	6568.2	6568.2	6575.2	6575.2	6564.7	6575.2	6575.2
7.5°	6634.2	6623.7	6634.2	6620.2	6613.4	6616.8	6620.2	6613.4	6606.4	6609.9	6609.9
10°	6710.5	6700.0	6700.0	6689.7	6679.2	6672.3	6665.4	6648.0	6630.7	6627.2	6613.4
12.5°	6800.7	6783.3	6773.0	6752.1	6734.8	6710.5	6689.7	6661.9	6627.2	6602.9	6578.6
15°	6890.9	6863.1	6838.9	6804.1	6766.0	6724.3	6679.2	6634.2	6578.6	6530.1	6488.4
17.5°	6963.7	6925.6	6880.5	6825.0	6769.5	6707.0	6641.1	6575.2	6495.4	6432.9	6384.3
20°	6988.0	6932.6	6873.6	6800.7	6727.8	6641.1	6557.8	6471.1	6380.8	6314.9	6259.4
22.5°	6956.9	6890.9	6818.1	6741.7	6644.5	6550.9	6453.8	6353.1	6273.3	6183.1	6131.1
25°	6870.1	6790.3	6710.5	6620.2	6526.6	6422.5	6318.4	6214.3	6117.1	6068.6	6002.7
27.5°	6693.2	6606.4	6519.6	6426.0	6318.4	6214.3	6106.8	6006.1	5922.9	5856.9	5818.8
30°	6380.8	6280.2	6179.6	6079.0	5985.3	5877.7	5777.1	5693.8	5610.5	5558.5	5520.4
32.5°	5902.0	5811.8	5711.2	5614.0	5527.3	5437.1	5353.8	5281.0	5222.0	5187.2	5159.5
35°	5256.7	5166.4	5090.1	5020.7	4947.8	4909.7	4857.7	4816.0	4791.7	4777.8	4774.4
37.5°	4444.7	4392.7	4368.4	4354.5	4340.6	4330.3	4337.1	4354.5	4368.4	4392.7	4420.4
40°	3577.3	3622.4	3636.3	3684.9	3729.9	3788.9	3854.9	3931.2	3993.6	4073.4	4129.0
42.5°	2786.2	2869.5	2966.6	3070.7	3181.8	3289.3	3421.2	3542.6	3653.6	3754.2	3841.0
45°	2140.8	2269.2	2414.9	2564.1	2713.4	2869.5	3029.1	3178.3	3310.1	3417.7	3507.9
47.5°	1668.9	1811.2	1998.6	2182.5	2362.9	2546.8	2723.7	2879.9	2990.9	3095.0	3174.8
50°	1322.0	1485.0	1689.7	1901.4	2099.2	2293.5	2480.8	2626.6	2737.6	2820.9	2879.9
52.5°	1023.5	1217.9	1426.0	1648.1	1859.8	2071.4	2244.9	2380.2	2470.5	2543.3	2588.4
55°	763.3	954.2	1176.3	1405.2	1620.4	1825.1	1988.2	2106.2	2186.0	2227.6	2251.9
57.5°	551.7	725.2	947.2	1176.3	1370.5	1564.9	1696.7	1804.3	1849.4	1873.6	1884.1
60°	402.5	562.1	759.8	957.7	1141.5	1297.7	1412.2	1485.0	1519.8	1533.6	1530.1
62.5°	294.9	433.7	603.7	770.3	919.5	1047.8	1138.1	1186.6	1204.0	1210.9	1200.6
65°	225.5	333.1	478.8	607.2	721.7	815.4	881.3	912.6	922.9	919.5	912.6
67.5°	166.6	249.9	357.4	454.5	537.8	610.7	645.4	673.2	680.0	669.7	659.2
70°	118.0	183.9	260.2	326.2	388.6	430.3	468.4	471.9	471.9	468.4	461.5
72.5°	83.3	128.4	176.9	222.1	260.2	291.5	305.3	315.7	312.3	308.8	301.9
75°	55.5	79.8	128.4	138.8	173.5	183.9	197.8	197.8	201.2	190.9	190.9
77.5°	34.7	55.5	76.3	90.2	104.1	118.0	124.9	124.9	128.4	124.9	124.9
80°	20.8	34.7	41.6	62.5	62.5	72.8	76.3	79.8	72.8	83.3	72.8
82.5°	13.8	20.8	31.2	31.2	38.2	45.1	45.1	48.6	48.6	45.1	45.1
85°	10.4	13.8	17.3	20.8	20.8	24.3	20.8	20.8	24.3	27.8	24.3
87.5°	3.5	7.0	3.5	7.0	7.0	13.8	10.4	10.4	10.4	13.8	13.8
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: P248457

CATALOG NUMBER: LSR8B120D010 EC8B120835 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	6537.0	6537.0	6537.0	6537.0
2.5°	6543.9	6547.4	6543.9	6543.9
5°	6575.2	6571.7	6575.2	6568.2
7.5°	6599.4	6599.4	6596.0	6596.0
10°	6599.4	6585.6	6585.6	6585.6
12.5°	6547.4	6530.1	6519.6	6512.7
15°	6457.2	6426.0	6412.1	6408.6
17.5°	6339.2	6311.5	6294.1	6283.7
20°	6203.9	6176.1	6155.3	6158.8
22.5°	6085.9	6054.7	6040.8	6033.8
25°	5968.0	5929.8	5919.4	5912.4
27.5°	5777.1	5756.3	5745.9	5735.5
30°	5485.7	5475.2	5457.9	5482.2
32.5°	5149.1	5131.7	5117.9	5128.3
35°	4777.8	4767.4	4777.8	4770.9
37.5°	4437.8	4448.2	4462.1	4469.0
40°	4170.7	4208.8	4222.7	4229.6
42.5°	3903.5	3948.6	3976.3	3993.6
45°	3573.8	3618.9	3650.1	3671.0
47.5°	3233.8	3272.0	3303.2	3299.8
50°	2925.0	2945.8	2959.7	2973.6
52.5°	2612.7	2612.7	2616.2	2616.2
55°	2258.8	2251.9	2248.4	2251.9
57.5°	1870.2	1863.3	1859.8	1849.4
60°	1516.3	1495.5	1481.6	1481.6
62.5°	1186.6	1162.4	1152.0	1148.5
65°	891.7	888.2	867.4	863.9
67.5°	645.4	631.5	617.6	621.1
70°	454.5	433.7	433.7	426.8
72.5°	294.9	284.5	281.0	281.0
75°	183.9	183.9	176.9	190.9
77.5°	121.4	121.4	118.0	121.4
80°	72.8	72.8	72.8	69.4
82.5°	45.1	48.6	45.1	45.1
85°	24.3	27.8	20.8	31.2
87.5°	13.8	17.3	13.8	17.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)