

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: P249277

Luminaire Tested: **LSR8B150D010 EC8B150950 8LBDW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249277
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B150D010 EC8B150950 8LBDW0WMH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15105.0 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

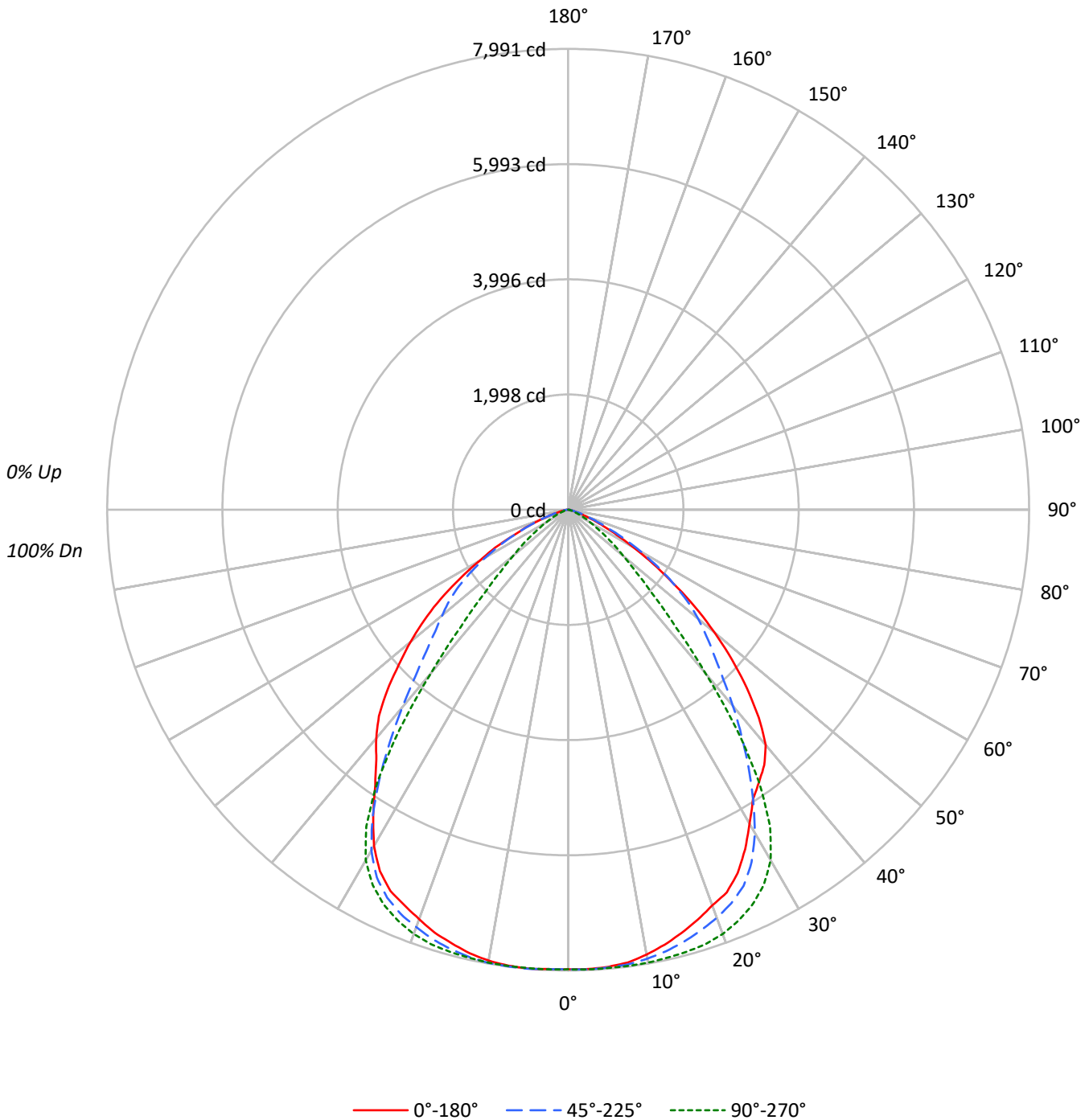
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90					90			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79					79			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62					62			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55					55			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50					50			
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45					45			
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41					41			
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37					37			
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	245756	245756	245756
5°	246296	246961	247227
10°	245261	249682	248611
15°	242543	253334	248555
20°	239631	256895	247913
25°	236519	257192	248165
30°	223760	249959	239754
35°	217079	217237	219496
40°	214393	149471	208367
45°	191034	89735	193642
50°	158843	59721	171157
55°	119130	41171	145118
60°	80729	27438	109494
65°	48697	17796	75220
70°	27003	9647	46279
75°	12236	4075	23960
80°	10637	4546	16710
85°	12100	6050	16664



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	760.6	5.0
10°-20°	2208.9	14.6
20°-30°	3352.7	22.2
30°-40°	3521.3	23.3
40°-50°	2640.0	17.5
50°-60°	1693.9	11.2
60°-70°	724.6	4.8
70°-80°	171.2	1.1
80°-90°	31.9	0.2
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°	6322.1	41.9
0°-40°	9843.4	65.2
0°-60°	14177.3	93.9
0°-90°	15105.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15105.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7970	7970	7970	7970	7970	
5°	7957	7970	7978	7991	7987	756
15°	7598	7756	7936	7884	7786	2143
25°	6952	7195	7559	7422	7294	3176
35°	5767	5446	5771	5702	5831	3619
45°	4381	3581	2058	3478	4440	3355
55°	2216	2216	766	2310	2699	2010
65°	667	787	244	1014	1031	712
75°	103	120	34	205	201	150
85°	34	21	17	34	47	36
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°	7969.7	7969.7	7969.7	7969.7	7969.7	7969.7	7969.7	7969.7	7969.7	7969.7	7969.7
2.5°	7974.0	7982.6	7978.3	7978.3	7974.0	7978.3	7978.3	7986.9	7986.9	7978.3	7974.0
5°	7956.8	7965.4	7965.4	7956.8	7956.8	7978.3	7965.4	7974.0	7974.0	7969.7	7969.7
7.5°	7918.4	7918.4	7935.5	7922.7	7922.7	7935.5	7931.2	7939.8	7948.3	7952.6	7952.6
10°	7832.8	7841.4	7845.7	7845.7	7849.9	7862.7	7871.3	7888.5	7896.9	7905.5	7909.8
12.5°	7725.9	7738.7	7743.0	7738.7	7751.6	7768.6	7790.1	7811.4	7824.3	7841.4	7854.2
15°	7597.5	7597.5	7606.1	7618.9	7627.5	7653.2	7674.5	7700.2	7734.4	7755.8	7777.2
17.5°	7456.4	7465.0	7477.7	7477.7	7494.9	7537.6	7550.5	7589.0	7627.5	7648.9	7691.7
20°	7302.4	7310.9	7323.8	7332.3	7353.7	7387.9	7413.6	7447.8	7490.6	7529.1	7571.8
22.5°	7182.6	7165.5	7174.0	7182.6	7204.0	7233.9	7263.9	7306.6	7349.4	7387.9	7430.7
25°	6951.5	6955.8	6968.7	6977.2	7002.9	7028.6	7062.8	7114.1	7152.6	7195.4	7242.4
27.5°	6639.3	6643.6	6664.9	6664.9	6686.3	6729.1	6750.5	6793.3	6844.7	6887.4	6943.1
30°	6284.2	6292.7	6292.7	6309.9	6322.7	6344.1	6365.5	6408.3	6433.9	6472.5	6549.5
32.5°	5959.1	5967.6	5963.3	5959.1	5946.3	5942.0	5937.7	5946.3	5954.8	5967.6	5997.6
35°	5766.6	5745.2	5728.1	5698.2	5664.0	5621.1	5582.6	5531.3	5484.2	5445.7	5403.0
37.5°	5582.6	5578.3	5552.7	5509.9	5441.4	5364.5	5274.7	5163.4	5052.1	4932.4	4816.9
40°	5326.0	5313.1	5291.7	5231.9	5154.8	5060.7	4941.0	4804.1	4624.3	4440.4	4252.2
42.5°	4889.6	4893.9	4868.2	4821.1	4748.5	4658.6	4534.5	4384.9	4192.4	3974.1	3730.3
45°	4380.6	4380.6	4372.0	4333.5	4282.2	4209.4	4115.3	3991.3	3803.1	3580.6	3319.6
47.5°	3850.1	3854.4	3841.5	3833.0	3811.6	3764.6	3696.1	3602.0	3469.4	3255.4	2994.5
50°	3311.1	3311.1	3332.5	3328.2	3328.2	3311.1	3281.2	3225.5	3110.0	2938.9	2695.1
52.5°	2772.1	2780.6	2793.5	2810.6	2831.9	2866.2	2831.9	2806.3	2733.5	2600.9	2391.4
55°	2215.9	2224.5	2245.9	2275.8	2301.5	2335.8	2344.3	2344.3	2305.7	2215.9	2057.7
57.5°	1741.1	1728.3	1745.4	1771.1	1805.3	1839.5	1865.2	1895.1	1890.8	1830.9	1702.6
60°	1309.0	1313.3	1326.1	1351.8	1377.5	1407.4	1441.7	1467.3	1480.2	1450.2	1368.9
62.5°	954.0	954.0	971.1	996.7	1009.6	1052.4	1073.7	1086.6	1099.4	1095.1	1043.8
65°	667.4	675.9	684.5	697.3	710.1	735.7	748.6	774.3	782.8	787.1	748.6
67.5°	470.6	457.7	466.3	474.8	487.7	504.8	530.5	530.5	543.3	543.3	517.6
70°	299.5	299.5	303.8	316.5	325.1	329.4	338.0	346.5	359.3	355.1	355.1
72.5°	201.1	196.8	201.1	205.4	209.7	222.4	222.4	226.7	235.3	239.6	222.4
75°	102.7	107.0	115.5	111.3	124.0	115.5	119.7	132.6	128.3	119.7	119.7
77.5°	85.5	85.5	85.5	81.3	89.8	89.8	85.5	94.1	89.8	89.8	85.5
80°	59.9	64.2	59.9	55.6	59.9	55.6	55.6	55.6	55.6	55.6	51.3
82.5°	47.1	38.5	42.8	38.5	42.8	42.8	38.5	34.2	34.2	38.5	34.2
85°	34.2	25.6	29.9	29.9	25.6	25.6	25.6	25.6	25.6	21.4	21.4
87.5°	21.4	12.9	12.9	12.9	17.1	17.1	17.1	12.9	17.1	17.1	8.6
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: P249277

CATALOG NUMBER: LSR8B150D010 EC8B150950 8LBDW0WMH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	7969.7	7969.7	7969.7	7969.7	7969.7	7969.7	7969.7	7969.7	7969.7	7969.7	7969.7
2.5°	7982.6	7978.3	7986.9	7982.6	7982.6	7978.3	7982.6	7978.3	7986.9	7969.7	7974.0
5°	7982.6	7974.0	7978.3	7982.6	7986.9	7978.3	7978.3	7978.3	7986.9	7978.3	7982.6
7.5°	7965.4	7961.1	7974.0	7982.6	7978.3	7974.0	7982.6	7978.3	7986.9	7982.6	7991.1
10°	7931.2	7935.5	7944.0	7956.8	7961.1	7965.4	7974.0	7974.0	7986.9	7969.7	7978.3
12.5°	7879.9	7896.9	7918.4	7926.9	7944.0	7944.0	7952.6	7956.8	7965.4	7961.1	7974.0
15°	7815.7	7837.1	7862.7	7884.2	7905.5	7918.4	7931.2	7935.5	7948.3	7935.5	7939.8
17.5°	7738.7	7764.3	7802.8	7828.5	7862.7	7875.6	7892.7	7901.2	7914.1	7905.5	7909.8
20°	7631.7	7661.7	7704.5	7743.0	7764.3	7794.3	7815.7	7828.5	7837.1	7828.5	7832.8
22.5°	7482.0	7524.8	7580.4	7610.4	7653.2	7678.8	7683.1	7713.0	7734.4	7713.0	7721.6
25°	7306.6	7349.4	7392.2	7456.4	7494.9	7524.8	7554.8	7559.1	7580.4	7576.1	7571.8
27.5°	7015.7	7071.4	7144.0	7195.4	7246.7	7293.8	7328.0	7336.5	7358.0	7349.4	7353.7
30°	6617.8	6677.8	6746.3	6827.5	6900.3	6947.3	6990.1	7020.0	7041.4	7028.6	7024.3
32.5°	6053.2	6113.1	6185.9	6267.1	6352.7	6421.1	6472.5	6511.0	6536.6	6528.0	6506.7
35°	5407.3	5424.4	5471.5	5535.6	5608.3	5681.0	5728.1	5770.8	5800.8	5809.4	5809.4
37.5°	4744.2	4688.6	4654.4	4654.4	4697.1	4727.0	4769.8	4795.5	4842.6	4859.7	4872.5
40°	4102.4	3974.1	3854.4	3764.6	3704.7	3700.4	3700.4	3713.2	3756.0	3811.6	3863.0
42.5°	3529.3	3323.9	3140.0	2973.1	2853.4	2784.9	2755.0	2759.3	2793.5	2844.8	2930.3
45°	3071.5	2814.9	2583.9	2382.8	2220.2	2113.2	2062.0	2057.7	2083.3	2143.2	2237.4
47.5°	2716.5	2442.6	2181.7	1950.7	1775.4	1659.8	1599.9	1582.9	1599.9	1655.5	1766.8
50°	2421.3	2139.0	1869.5	1629.9	1441.7	1321.9	1266.2	1244.9	1266.2	1313.3	1424.5
52.5°	2147.5	1856.6	1604.2	1373.2	1172.1	1069.4	1009.6	996.7	1009.6	1065.2	1155.1
55°	1830.9	1582.9	1334.7	1103.7	928.3	825.7	778.6	765.8	778.6	829.9	924.1
57.5°	1518.7	1304.7	1086.6	877.0	727.3	637.4	594.6	577.5	607.4	641.6	752.9
60°	1227.7	1056.7	872.7	688.7	564.7	483.4	449.2	444.9	453.4	496.3	573.2
62.5°	962.6	821.4	675.9	526.2	423.5	389.3	346.5	342.3	350.8	376.4	436.4
65°	693.0	603.2	492.0	385.0	303.8	256.7	239.6	243.9	252.4	269.5	325.1
67.5°	483.4	419.2	342.3	269.5	209.7	188.2	171.1	166.8	171.1	201.1	231.0
70°	325.1	286.6	231.0	205.4	145.5	115.5	119.7	107.0	124.0	124.0	149.7
72.5°	213.8	188.2	154.0	119.7	102.7	81.3	81.3	77.0	85.5	89.8	111.3
75°	111.3	85.5	85.5	59.9	42.8	21.4	38.5	34.2	29.9	34.2	42.8
77.5°	77.0	64.2	59.9	47.1	42.8	34.2	34.2	34.2	34.2	38.5	42.8
80°	47.1	47.1	34.2	29.9	25.6	21.4	25.6	25.6	25.6	25.6	29.9
82.5°	29.9	25.6	25.6	21.4	21.4	17.1	17.1	17.1	17.1	17.1	25.6
85°	25.6	17.1	17.1	12.9	17.1	29.9	12.9	17.1	17.1	17.1	12.9
87.5°	8.6	12.9	12.9	12.9	8.6	4.3	8.6	12.9	12.9	21.4	17.1
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: P249277

CATALOG NUMBER: LSR8B150D010 EC8B150950 8LBDW0WMH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	7969.7	7969.7	7969.7	7969.7	7969.7	7969.7	7969.7	7969.7	7969.7	7969.7	7969.7
2.5°	7982.6	7986.9	7986.9	7982.6	7982.6	7974.0	7991.1	7978.3	7982.6	7999.6	7986.9
5°	7991.1	7995.3	7995.3	7991.1	7991.1	7991.1	7995.3	7995.3	7991.1	7986.9	7995.3
7.5°	8008.2	8003.9	8003.9	7995.3	7995.3	7986.9	7995.3	7982.6	7991.1	7982.6	7995.3
10°	7986.9	7991.1	7986.9	7982.6	7982.6	7978.3	7978.3	7965.4	7969.7	7956.8	7965.4
12.5°	7974.0	7969.7	7969.7	7961.1	7952.6	7944.0	7939.8	7926.9	7926.9	7896.9	7909.8
15°	7939.8	7944.0	7931.2	7914.1	7905.5	7884.2	7875.6	7858.4	7841.4	7820.0	7824.3
17.5°	7909.8	7896.9	7879.9	7862.7	7828.5	7811.4	7794.3	7768.6	7760.0	7734.4	7725.9
20°	7820.0	7811.4	7790.1	7760.0	7738.7	7700.2	7683.1	7657.5	7636.0	7610.4	7597.5
22.5°	7704.5	7695.9	7670.2	7640.3	7606.1	7589.0	7571.8	7524.8	7503.4	7477.7	7473.4
25°	7559.1	7546.2	7520.5	7486.3	7469.2	7422.1	7405.0	7370.8	7362.3	7336.5	7332.3
27.5°	7336.5	7319.5	7289.5	7246.7	7216.8	7186.8	7169.8	7144.0	7135.6	7109.8	7105.6
30°	7002.9	6981.5	6921.6	6904.5	6853.1	6823.2	6823.2	6789.0	6793.3	6776.2	6776.2
32.5°	6476.7	6442.5	6395.4	6361.2	6327.0	6309.9	6309.9	6297.0	6305.6	6305.6	6314.2
35°	5779.4	5732.4	5706.7	5685.3	5685.3	5702.4	5753.8	5766.6	5792.3	5813.6	5830.8
37.5°	4885.3	4881.1	4911.0	4936.7	5000.9	5073.6	5163.4	5240.5	5313.1	5364.5	5415.8
40°	3918.5	4025.5	4111.0	4230.9	4329.2	4470.4	4632.9	4765.6	4889.6	4979.5	5073.6
42.5°	3058.7	3195.6	3375.3	3550.6	3726.0	3918.5	4132.5	4316.4	4479.0	4603.0	4701.4
45°	2382.8	2571.0	2789.2	3011.6	3238.4	3478.0	3700.4	3888.6	4059.7	4188.1	4286.5
47.5°	1920.7	2126.1	2374.2	2618.1	2874.7	3127.1	3375.3	3537.8	3678.9	3781.6	3871.5
50°	1587.1	1805.3	2066.2	2344.3	2600.9	2853.4	3067.2	3225.5	3341.1	3430.9	3486.4
52.5°	1326.1	1557.1	1835.2	2113.2	2369.9	2600.9	2793.5	2913.3	3007.4	3071.5	3122.8
55°	1095.1	1317.6	1578.6	1839.5	2091.9	2310.0	2468.3	2558.2	2630.9	2669.4	2699.3
57.5°	894.1	1099.4	1339.0	1578.6	1796.7	1976.4	2100.5	2190.3	2224.5	2254.4	2250.2
60°	701.6	894.1	1112.3	1317.6	1505.8	1651.2	1741.1	1792.4	1818.1	1830.9	1822.4
62.5°	551.8	727.3	894.1	1073.7	1210.6	1334.7	1420.3	1420.3	1433.1	1437.4	1450.2
65°	410.6	543.3	688.7	821.4	932.5	1013.9	1061.0	1073.7	1090.9	1086.6	1078.0
67.5°	303.8	402.2	509.0	607.4	684.5	735.7	770.0	800.0	795.7	787.1	782.8
70°	209.7	273.8	367.9	427.8	483.4	534.8	543.3	547.5	551.8	556.1	547.5
72.5°	145.5	192.5	243.9	295.2	329.4	350.8	372.2	376.4	376.4	376.4	372.2
75°	72.7	98.4	145.5	166.8	196.8	205.4	222.4	222.4	235.3	218.1	213.8
77.5°	64.2	77.0	102.7	119.7	132.6	145.5	149.7	162.6	158.3	149.7	154.0
80°	38.5	47.1	64.2	72.7	89.8	94.1	98.4	102.7	98.4	102.7	102.7
82.5°	29.9	34.2	42.8	42.8	55.6	55.6	59.9	59.9	64.2	64.2	64.2
85°	17.1	29.9	25.6	51.3	34.2	34.2	42.8	51.3	42.8	42.8	51.3
87.5°	17.1	17.1	12.9	17.1	17.1	17.1	21.4	25.6	25.6	29.9	25.6
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: P249277

CATALOG NUMBER: LSR8B150D010 EC8B150950 8LBDW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	7969.7	7969.7	7969.7	7969.7
2.5°	7982.6	7991.1	7978.3	7974.0
5°	7995.3	7995.3	7986.9	7986.9
7.5°	7995.3	7995.3	7982.6	7974.0
10°	7961.1	7961.1	7948.3	7939.8
12.5°	7896.9	7896.9	7892.7	7879.9
15°	7815.7	7815.7	7798.6	7785.8
17.5°	7704.5	7713.0	7691.7	7691.7
20°	7584.7	7580.4	7563.4	7554.8
22.5°	7460.7	7452.1	7447.8	7422.1
25°	7328.0	7319.5	7306.6	7293.8
27.5°	7101.3	7097.0	7084.2	7067.1
30°	6754.8	6750.5	6733.4	6733.4
32.5°	6305.6	6301.3	6284.2	6288.5
35°	5839.3	5856.5	5847.9	5830.8
37.5°	5450.0	5462.9	5471.5	5462.9
40°	5124.9	5163.4	5167.7	5176.3
42.5°	4778.4	4829.7	4846.9	4855.4
45°	4363.4	4410.5	4449.0	4440.4
47.5°	3939.9	3974.1	4008.3	3982.7
50°	3533.5	3554.9	3567.8	3567.8
52.5°	3148.6	3148.6	3144.3	3148.6
55°	2707.9	2707.9	2690.8	2699.3
57.5°	2245.9	2254.4	2241.6	2220.2
60°	1818.1	1796.7	1788.1	1775.4
62.5°	1416.0	1416.0	1386.1	1424.5
65°	1061.0	1048.1	1035.2	1030.9
67.5°	770.0	765.8	752.9	748.6
70°	543.3	526.2	521.9	513.3
72.5°	363.6	363.6	355.1	355.1
75°	222.4	201.1	196.8	201.1
77.5°	154.0	149.7	149.7	145.5
80°	102.7	98.4	107.0	94.1
82.5°	64.2	68.5	64.2	68.5
85°	42.8	51.3	47.1	47.1
87.5°	25.6	25.6	25.6	25.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)