

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: P250208

Luminaire Tested: **LSR8B150D010 EC8B150827 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250208
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: LSR8B150D010 EC8B150827 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15541.0 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

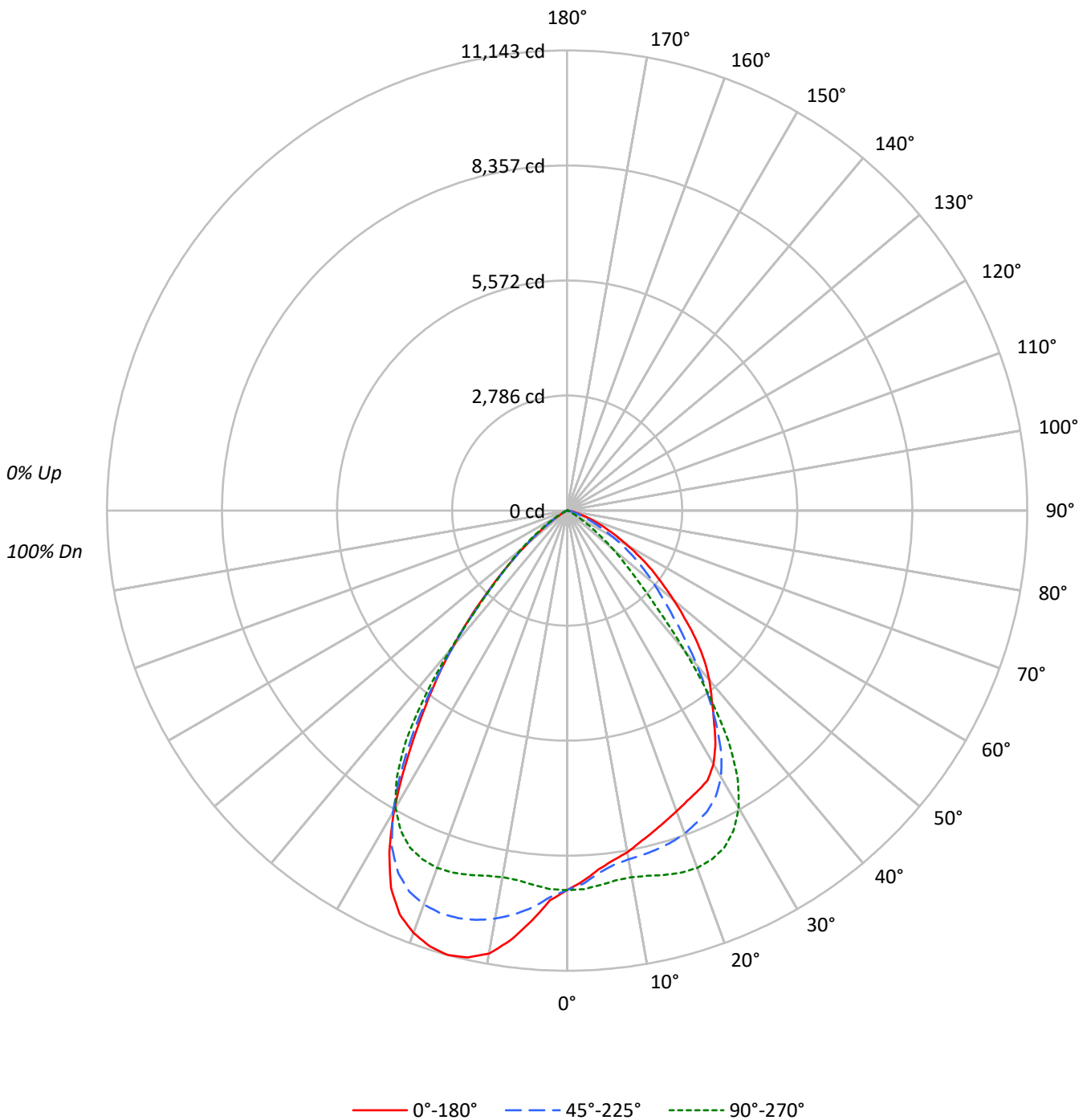
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	283367	283367	283367
5°	269963	281791	308913
10°	263002	282228	340985
15°	257037	291582	355737
20°	254207	302118	357073
25°	254803	306384	343201
30°	252437	295863	298463
35°	233262	256052	233582
40°	215552	177524	173205
45°	191941	107117	110671
50°	161505	69014	62628
55°	134361	37859	28628
60°	104874	16417	9004
65°	77394	8150	4385
70°	53816	5040	1929
75°	32740	1037	0
80°	23636	1545	0
85°	15214	1486	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	883.4	5.7
10°-20°	2644.0	17.0
20°-30°	4049.0	26.1
30°-40°	3969.3	25.5
40°-50°	2390.3	15.4
50°-60°	1100.2	7.1
60°-70°	386.5	2.5
70°-80°	101.1	0.7
80°-90°	17.2	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°	7576.3	48.8
0°-40°	11545.7	74.3
0°-60°	15036.2	96.8
0°-90°	15541.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15541.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9189	9189	9189	9189	9189	
5°	8721	8803	9104	9649	9980	824
15°	8052	8485	9134	10216	11143	2275
25°	7489	8030	9005	9683	10087	3449
35°	6196	6282	6802	6411	6205	3881
45°	4401	3624	2456	2473	2538	3375
55°	2499	1980	704	554	532	2230
65°	1061	734	112	56	60	1081
75°	275	159	9	0	0	333
85°	43	21	4	0	0	59
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°	9189.4	9189.4	9189.4	9189.4	9189.4	9189.4	9189.4	9189.4	9189.4	9189.4	9189.4
2.5°	8974.7	8983.3	8983.3	8983.3	9000.5	9004.9	9000.5	9004.9	9013.4	9043.4	9056.3
5°	8721.4	8708.5	8717.1	8712.7	8734.3	8747.2	8738.5	8751.4	8781.5	8803.1	8824.4
7.5°	8541.1	8541.1	8541.1	8549.6	8562.5	8588.3	8584.1	8592.5	8622.6	8652.6	8682.7
10°	8399.4	8395.1	8395.1	8416.5	8433.6	8463.7	8472.4	8498.2	8536.7	8575.4	8609.7
12.5°	8214.6	8219.1	8240.5	8262.0	8300.5	8347.7	8373.5	8408.0	8468.1	8532.4	8571.2
15°	8051.5	8055.7	8073.1	8115.8	8163.2	8219.1	8274.7	8330.6	8403.6	8485.3	8554.0
17.5°	7892.6	7896.9	7909.8	7957.1	8017.2	8090.2	8154.6	8227.6	8322.1	8416.5	8502.4
20°	7746.6	7742.4	7763.8	7806.7	7884.1	7952.7	8017.2	8103.1	8206.2	8322.1	8420.7
22.5°	7604.9	7604.9	7626.4	7669.4	7738.1	7806.7	7875.5	7965.6	8068.7	8180.4	8296.3
25°	7488.9	7484.7	7514.7	7536.3	7587.7	7656.5	7729.5	7802.5	7905.5	8030.1	8141.7
27.5°	7364.5	7360.2	7364.5	7390.3	7437.5	7488.9	7544.8	7609.3	7695.2	7798.2	7905.5
30°	7089.6	7093.9	7093.9	7115.4	7141.2	7196.9	7227.0	7291.5	7368.7	7454.6	7549.2
32.5°	6681.7	6685.9	6685.9	6694.6	6716.0	6741.8	6767.6	6814.8	6874.9	6947.9	7033.8
35°	6196.5	6196.5	6192.1	6196.5	6209.4	6209.4	6230.8	6209.4	6239.5	6282.4	6346.8
37.5°	5749.9	5741.2	5732.7	5724.1	5711.2	5689.8	5659.7	5608.1	5595.2	5578.1	5582.3
40°	5354.8	5350.6	5324.8	5303.2	5260.3	5208.8	5135.8	5045.7	4972.7	4886.8	4813.8
42.5°	4916.8	4912.4	4891.0	4852.3	4805.1	4727.9	4611.9	4491.8	4345.8	4216.9	4083.8
45°	4401.4	4414.3	4384.3	4341.3	4285.5	4212.5	4083.8	3937.6	3791.6	3624.3	3456.7
47.5°	3864.6	3860.4	3839.0	3813.2	3766.0	3693.0	3607.1	3448.2	3293.6	3139.1	2967.3
50°	3366.6	3349.4	3340.8	3315.1	3285.1	3225.0	3134.7	3005.8	2868.5	2722.5	2563.6
52.5°	2894.3	2894.3	2872.7	2855.6	2829.8	2782.6	2705.3	2602.3	2486.3	2348.8	2181.5
55°	2499.2	2490.6	2469.2	2447.6	2421.8	2391.8	2323.2	2237.3	2112.7	1979.6	1833.6
57.5°	2078.4	2074.0	2065.5	2039.7	2026.8	1996.7	1919.5	1833.6	1726.3	1610.4	1490.0
60°	1700.5	1683.4	1666.0	1648.9	1627.5	1597.5	1545.9	1472.9	1382.7	1279.7	1159.5
62.5°	1361.3	1387.0	1335.5	1335.5	1292.6	1266.8	1219.6	1176.6	1082.1	987.7	884.6
65°	1060.7	1060.7	1039.1	1022.0	996.2	966.1	918.9	876.0	807.2	734.2	661.2
67.5°	811.6	807.2	785.8	768.7	747.1	730.0	695.7	644.1	592.6	532.5	472.3
70°	596.9	592.6	588.2	558.2	541.0	519.6	493.8	459.6	420.8	377.9	322.0
72.5°	429.3	429.3	416.6	403.7	386.6	369.2	343.6	322.0	287.7	257.7	219.0
75°	274.8	270.6	270.6	249.0	249.0	223.2	206.1	193.2	176.0	158.9	124.6
77.5°	197.6	193.2	188.9	180.3	171.8	163.1	150.2	133.1	120.2	103.0	90.1
80°	133.1	124.6	120.2	120.2	107.3	103.0	107.3	81.7	77.2	64.3	55.9
82.5°	81.7	81.7	77.2	77.2	73.0	68.8	55.9	55.9	51.6	47.2	38.7
85°	43.0	55.9	38.7	43.0	38.7	43.0	38.7	30.0	25.8	21.4	21.4
87.5°	25.8	17.1	17.1	25.8	21.4	17.1	17.1	17.1	12.9	8.7	8.7
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: P250208

CATALOG NUMBER: LSR8B150D010 EC8B150827 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	9189.4	9189.4	9189.4	9189.4	9189.4	9189.4	9189.4	9189.4	9189.4	9189.4	9189.4
2.5°	9047.8	9077.9	9073.5	9112.2	9125.1	9155.1	9155.1	9176.5	9189.4	9219.5	9245.3
5°	8833.1	8880.3	8893.2	8940.4	8979.1	9026.3	9056.3	9103.5	9146.5	9211.0	9271.1
7.5°	8700.0	8738.5	8764.3	8820.2	8863.1	8914.6	8966.2	9030.5	9090.6	9168.0	9253.9
10°	8635.5	8687.1	8725.6	8781.5	8833.1	8889.0	8940.4	9013.4	9082.1	9180.9	9275.3
12.5°	8618.3	8678.4	8725.6	8803.1	8854.5	8914.6	8974.7	9056.3	9129.3	9232.4	9339.8
15°	8618.3	8700.0	8764.3	8850.2	8910.3	8987.6	9052.1	9133.6	9215.2	9322.5	9425.6
17.5°	8601.2	8700.0	8781.5	8880.3	8957.5	9034.9	9116.4	9193.8	9279.6	9382.8	9498.6
20°	8532.4	8657.1	8755.7	8871.6	8953.3	9039.2	9120.8	9206.6	9296.9	9404.2	9503.0
22.5°	8412.3	8558.3	8670.0	8794.4	8889.0	8974.7	9056.3	9142.2	9241.0	9344.1	9447.1
25°	8253.4	8390.7	8511.1	8639.7	8734.3	8828.7	8906.1	9004.9	9095.0	9193.8	9275.3
27.5°	8012.8	8158.8	8274.7	8408.0	8493.7	8584.1	8648.4	8730.1	8816.0	8897.4	8961.9
30°	7652.2	7785.3	7905.5	8025.7	8111.6	8176.1	8244.7	8309.2	8365.1	8420.7	8476.6
32.5°	7123.9	7244.3	7360.2	7471.8	7540.5	7596.4	7647.8	7686.5	7716.6	7746.6	7750.9
35°	6398.4	6497.0	6570.0	6668.8	6733.3	6784.7	6784.7	6801.9	6797.6	6784.7	6771.8
37.5°	5586.7	5625.3	5655.3	5694.0	5698.3	5698.3	5672.6	5651.1	5616.8	5608.1	5582.3
40°	4740.8	4689.2	4650.5	4599.0	4569.0	4504.5	4448.8	4410.1	4354.2	4345.8	4337.1
42.5°	3937.6	3817.5	3710.2	3620.0	3517.0	3426.7	3345.2	3285.1	3242.1	3237.7	3242.1
45°	3285.1	3147.6	2988.7	2864.2	2748.3	2636.6	2529.3	2456.3	2417.6	2408.9	2417.6
47.5°	2791.2	2632.3	2477.7	2335.9	2211.5	2086.9	1979.6	1880.8	1833.6	1820.7	1816.5
50°	2400.4	2237.3	2074.0	1928.0	1790.7	1666.0	1533.0	1438.6	1378.5	1356.9	1339.8
52.5°	2018.3	1872.3	1704.8	1554.5	1417.0	1271.0	1133.7	1026.2	966.1	940.5	923.2
55°	1683.4	1537.4	1382.7	1236.7	1090.7	944.7	807.2	704.2	639.8	609.8	588.2
57.5°	1344.0	1206.7	1073.6	927.6	807.2	665.6	528.1	438.0	382.1	347.8	330.7
60°	1039.1	931.8	815.9	695.7	579.7	463.8	352.1	266.2	223.2	197.6	176.0
62.5°	785.8	695.7	618.3	515.2	425.1	326.3	240.6	171.8	133.1	111.7	103.0
65°	566.8	498.1	429.3	365.0	300.7	227.7	163.1	111.7	77.2	64.3	60.1
67.5°	403.7	347.8	296.2	253.3	206.1	163.1	115.9	77.2	60.1	51.6	47.2
70°	283.3	240.6	206.1	167.6	137.3	107.3	90.1	55.9	34.3	38.7	30.0
72.5°	188.9	158.9	141.8	115.9	94.4	77.2	55.9	38.7	38.7	30.0	25.8
75°	103.0	94.4	73.0	55.9	47.2	43.0	17.1	8.7	4.2	12.9	4.2
77.5°	73.0	64.3	55.9	47.2	38.7	30.0	17.1	17.1	12.9	17.1	8.7
80°	47.2	38.7	34.3	34.3	21.4	12.9	8.7	8.7	12.9	4.2	4.2
82.5°	30.0	25.8	21.4	21.4	21.4	12.9	12.9	12.9	12.9	8.7	8.7
85°	17.1	12.9	8.7	8.7	4.2	8.7	0.0	4.2	4.2	0.0	0.0
87.5°	8.7	4.2	4.2	4.2	4.2	0.0	0.0	4.2	0.0	4.2	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: P250208

CATALOG NUMBER: LSR8B150D010 EC8B150827 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	9189.4	9189.4	9189.4	9189.4	9189.4	9189.4	9189.4	9189.4	9189.4	9189.4	9189.4
2.5°	9262.4	9279.6	9301.1	9318.3	9357.0	9365.5	9382.8	9399.9	9412.8	9425.6	9430.0
5°	9322.5	9387.0	9447.1	9511.5	9593.1	9649.0	9713.3	9769.2	9825.0	9872.2	9906.5
7.5°	9339.8	9438.5	9528.8	9640.3	9760.5	9863.7	9971.0	10078.3	10190.0	10275.9	10348.9
10°	9374.1	9494.3	9610.3	9743.4	9898.0	10035.4	10168.4	10310.2	10452.0	10572.1	10679.6
12.5°	9434.2	9567.3	9691.9	9837.9	9996.8	10151.3	10297.3	10456.2	10606.6	10739.7	10859.9
15°	9533.0	9657.5	9777.8	9915.2	10074.1	10215.8	10361.8	10516.3	10666.7	10804.0	10915.7
17.5°	9597.4	9713.3	9833.5	9958.1	10091.2	10220.1	10357.4	10494.9	10632.2	10756.8	10859.9
20°	9597.4	9709.1	9799.2	9910.9	10035.4	10147.1	10258.8	10379.0	10499.1	10602.2	10701.0
22.5°	9520.1	9627.4	9696.2	9782.1	9889.4	9983.9	10044.0	10177.1	10267.2	10357.4	10430.4
25°	9339.8	9417.1	9472.9	9533.0	9618.9	9683.3	9734.9	9812.1	9902.3	9936.7	9988.2
27.5°	9013.4	9069.2	9099.3	9112.2	9155.1	9189.4	9198.1	9232.4	9271.1	9279.6	9301.1
30°	8498.2	8502.4	8489.5	8485.3	8463.7	8438.1	8433.6	8429.4	8412.3	8395.1	8399.4
32.5°	7720.8	7699.4	7647.8	7592.1	7536.3	7476.2	7441.7	7398.8	7373.0	7347.3	7317.3
35°	6716.0	6664.5	6591.5	6522.8	6458.5	6411.1	6333.8	6308.0	6282.4	6247.9	6239.5
37.5°	5535.1	5505.1	5436.3	5384.9	5350.6	5329.0	5290.3	5264.7	5264.7	5251.8	5243.1
40°	4315.5	4307.1	4281.2	4294.1	4277.0	4285.5	4281.2	4272.6	4294.1	4294.1	4302.8
42.5°	3237.7	3242.1	3255.0	3263.5	3289.3	3293.6	3315.1	3315.1	3328.0	3340.8	3349.4
45°	2408.9	2426.3	2426.3	2443.4	2469.2	2473.4	2481.9	2486.3	2494.8	2516.4	2524.9
47.5°	1807.8	1812.0	1812.0	1816.5	1824.9	1833.6	1829.4	1833.6	1846.5	1837.8	1846.5
50°	1335.5	1339.8	1326.9	1314.0	1326.9	1326.9	1322.6	1309.7	1322.6	1305.5	1314.0
52.5°	910.4	906.0	893.1	897.5	888.9	884.6	884.6	876.0	876.0	876.0	858.8
55°	575.5	575.5	566.8	566.8	562.6	553.9	549.7	545.3	541.0	536.8	536.8
57.5°	322.0	326.3	313.6	309.1	313.6	309.1	300.7	300.7	300.7	287.7	296.2
60°	176.0	171.8	167.6	163.1	158.9	163.1	163.1	154.7	154.7	154.7	158.9
62.5°	94.4	94.4	90.1	90.1	85.9	85.9	94.4	81.7	85.9	81.7	85.9
65°	51.6	64.3	47.2	47.2	60.1	55.9	51.6	51.6	55.9	47.2	51.6
67.5°	55.9	38.7	34.3	38.7	34.3	34.3	34.3	43.0	38.7	30.0	38.7
70°	25.8	30.0	30.0	21.4	34.3	17.1	30.0	17.1	25.8	21.4	25.8
72.5°	25.8	25.8	25.8	17.1	25.8	17.1	21.4	21.4	17.1	17.1	25.8
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°	8.7	8.7	4.2	4.2	4.2	4.2	8.7	8.7	8.7	0.0	4.2
80°	8.7	8.7	0.0	4.2	0.0	0.0	4.2	0.0	4.2	0.0	8.7
82.5°	4.2	8.7	4.2	4.2	8.7	8.7	8.7	4.2	4.2	4.2	4.2
85°	0.0	4.2	0.0	0.0	0.0	0.0	8.7	0.0	0.0	0.0	4.2
87.5°	0.0	4.2	0.0	0.0	0.0	0.0	4.2	4.2	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: P250208

CATALOG NUMBER: LSR8B150D010 EC8B150827 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	9189.4	9189.4	9189.4	9189.4
2.5°	9434.2	9438.5	9447.1	9442.9
5°	9932.3	9966.8	9983.9	9979.7
7.5°	10400.3	10460.6	10494.9	10494.9
10°	10761.1	10829.8	10881.3	10889.9
12.5°	10954.3	11031.7	11100.5	11083.1
15°	11010.1	11087.5	11156.1	11143.2
17.5°	10945.8	11023.0	11074.6	11066.0
20°	10769.8	10834.1	10885.7	10881.3
22.5°	10494.9	10550.8	10593.7	10589.3
25°	10031.1	10069.8	10104.1	10087.0
27.5°	9318.3	9331.2	9352.6	9326.9
30°	8369.3	8377.8	8386.4	8382.2
32.5°	7304.4	7300.0	7291.5	7282.8
35°	6226.6	6226.6	6230.8	6205.0
37.5°	5247.4	5243.1	5256.0	5243.1
40°	4311.3	4307.1	4324.2	4302.8
42.5°	3362.3	3375.2	3379.5	3379.5
45°	2529.3	2533.5	2537.8	2537.8
47.5°	1846.5	1850.8	1872.3	1846.5
50°	1305.5	1309.7	1314.0	1305.5
52.5°	863.1	867.5	863.1	850.2
55°	528.1	532.5	532.5	532.5
57.5°	283.3	287.7	287.7	283.3
60°	154.7	150.2	154.7	146.0
62.5°	81.7	90.1	85.9	77.2
65°	51.6	51.6	51.6	60.1
67.5°	43.0	34.3	38.7	30.0
70°	25.8	30.0	30.0	21.4
72.5°	21.4	21.4	21.4	25.8
75°	0.0	0.0	0.0	0.0
77.5°	8.7	8.7	8.7	4.2
80°	4.2	0.0	4.2	0.0
82.5°	4.2	4.2	8.7	4.2
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)