

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: P249196

Luminaire Tested: **LSR8B150D010 EC8B150827 8LBDW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249196
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 EC8B150827 8LBDW0WMH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15367.0 lumens
Efficiency: N/A
Efficacy: 97.0 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

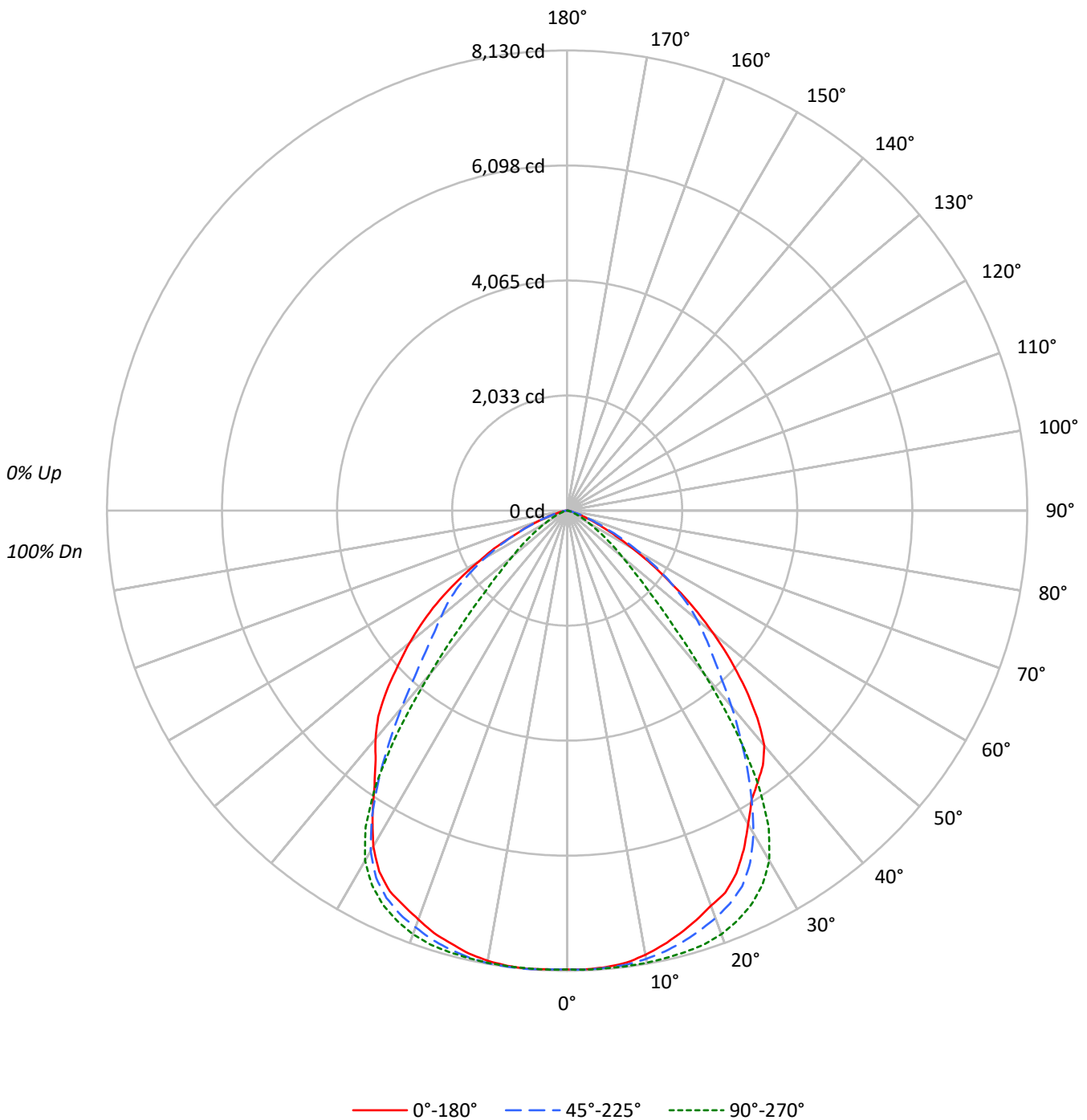
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	250018	250018	250018
5°	250567	251245	251514
10°	249513	254012	252923
15°	246751	257726	252864
20°	243788	261351	252212
25°	240622	261652	252469
30°	227644	254296	243913
35°	220847	221005	223302
40°	218112	152063	211981
45°	194344	91291	197004
50°	161601	60758	174127
55°	121200	41886	147634
60°	82129	27913	111393
65°	49543	18103	76526
70°	27472	9809	47081
75°	12450	4146	24377
80°	10815	4635	16994
85°	12312	6156	16947



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	773.8	5.0
10°-20°	2247.2	14.6
20°-30°	3410.8	22.2
30°-40°	3582.4	23.3
40°-50°	2685.8	17.5
50°-60°	1723.3	11.2
60°-70°	737.2	4.8
70°-80°	174.2	1.1
80°-90°	32.4	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°	6431.8	41.9
0°-40°	10014.1	65.2
0°-60°	14423.3	93.9
0°-90°	15367.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15367.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8108	8108	8108	8108	8108	
5°	8095	8108	8117	8130	8125	769
15°	7729	7890	8073	8021	7921	2180
25°	7072	7320	7690	7551	7420	3231
35°	5867	5540	5871	5801	5932	3682
45°	4456	3643	2093	3538	4518	3413
55°	2254	2254	779	2350	2746	2045
65°	679	801	248	1031	1049	725
75°	104	122	35	209	205	152
85°	35	22	17	35	48	37
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°	8107.9	8107.9	8107.9	8107.9	8107.9	8107.9	8107.9	8107.9	8107.9	8107.9	8107.9
2.5°	8112.3	8121.0	8116.7	8116.7	8112.3	8116.7	8116.7	8125.4	8125.4	8116.7	8112.3
5°	8094.8	8103.6	8103.6	8094.8	8094.8	8116.7	8103.6	8112.3	8112.3	8107.9	8107.9
7.5°	8055.8	8055.8	8073.1	8060.1	8060.1	8073.1	8068.7	8077.5	8086.2	8090.6	8090.6
10°	7968.6	7977.4	7981.7	7981.7	7986.1	7999.1	8007.8	8025.3	8033.9	8042.7	8047.0
12.5°	7859.9	7872.9	7877.3	7872.9	7886.0	7903.4	7925.2	7946.9	7960.0	7977.4	7990.5
15°	7729.3	7729.3	7738.0	7751.1	7759.8	7785.9	7807.6	7833.7	7868.5	7890.4	7912.1
17.5°	7585.7	7594.4	7607.4	7607.4	7624.9	7668.3	7681.4	7720.6	7759.8	7781.5	7825.1
20°	7429.1	7437.7	7450.8	7459.5	7481.2	7516.1	7542.2	7577.0	7620.5	7659.7	7703.2
22.5°	7307.1	7289.8	7298.4	7307.1	7329.0	7359.4	7389.9	7433.3	7476.9	7516.1	7559.6
25°	7072.1	7076.5	7089.6	7098.2	7124.4	7150.5	7185.3	7237.5	7276.7	7320.2	7368.1
27.5°	6754.5	6758.8	6780.6	6780.6	6802.3	6845.8	6867.6	6911.1	6963.4	7006.8	7063.5
30°	6393.3	6401.9	6401.9	6419.3	6432.3	6454.2	6475.9	6519.4	6545.5	6584.7	6663.1
32.5°	6062.5	6071.1	6066.8	6062.5	6049.4	6045.0	6040.7	6049.4	6058.1	6071.1	6101.6
35°	5866.7	5844.8	5827.5	5797.0	5762.2	5718.6	5679.5	5627.3	5579.4	5540.2	5496.7
37.5°	5679.5	5675.1	5649.0	5605.5	5535.8	5457.5	5366.2	5253.0	5139.8	5018.0	4900.5
40°	5418.4	5405.3	5383.5	5322.6	5244.2	5148.5	5026.7	4887.4	4704.6	4517.5	4326.0
42.5°	4974.4	4978.8	4952.7	4904.8	4830.9	4739.4	4613.2	4460.9	4265.1	4043.1	3795.0
45°	4456.5	4456.5	4447.8	4408.6	4356.4	4282.4	4186.7	4060.5	3869.0	3642.7	3377.2
47.5°	3916.9	3921.2	3908.1	3899.5	3877.7	3829.9	3760.2	3664.5	3529.6	3311.9	3046.4
50°	3368.6	3368.6	3390.3	3385.9	3385.9	3368.6	3338.1	3281.4	3164.0	2989.9	2741.9
52.5°	2820.1	2828.9	2842.0	2859.3	2881.0	2915.9	2881.0	2855.0	2780.9	2646.0	2432.8
55°	2254.4	2263.1	2284.8	2315.3	2341.5	2376.3	2384.9	2384.9	2345.7	2254.4	2093.4
57.5°	1771.3	1758.2	1775.7	1801.8	1836.6	1871.4	1897.5	1928.0	1923.6	1862.7	1732.1
60°	1331.7	1336.1	1349.1	1375.3	1401.4	1431.8	1466.7	1492.8	1505.9	1475.4	1392.7
62.5°	970.5	970.5	987.9	1014.0	1027.1	1070.6	1092.4	1105.5	1118.5	1114.1	1061.9
65°	679.0	687.6	696.3	709.4	722.4	748.5	761.6	787.7	796.4	800.8	761.6
67.5°	478.8	465.7	474.4	483.0	496.1	513.6	539.7	539.7	552.7	552.7	526.6
70°	304.7	304.7	309.0	322.0	330.8	335.1	343.8	352.5	365.6	361.2	361.2
72.5°	204.6	200.2	204.6	208.9	213.3	226.3	226.3	230.7	239.4	243.8	226.3
75°	104.5	108.8	117.5	113.2	126.2	117.5	121.8	134.9	130.6	121.8	121.8
77.5°	87.0	87.0	87.0	82.7	91.4	91.4	87.0	95.7	91.4	91.4	87.0
80°	60.9	65.3	60.9	56.5	60.9	56.5	56.5	56.5	56.5	56.5	52.2
82.5°	47.9	39.2	43.6	39.2	43.6	43.6	39.2	34.8	34.8	39.2	34.8
85°	34.8	26.1	30.5	30.5	26.1	26.1	26.1	26.1	26.1	21.7	21.7
87.5°	21.7	13.1	13.1	13.1	17.4	17.4	17.4	13.1	17.4	17.4	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	8107.9	8107.9	8107.9	8107.9	8107.9	8107.9	8107.9	8107.9	8107.9	8107.9	8107.9
2.5°	8121.0	8116.7	8125.4	8121.0	8121.0	8116.7	8121.0	8116.7	8125.4	8107.9	8112.3
5°	8121.0	8112.3	8116.7	8121.0	8125.4	8116.7	8116.7	8116.7	8125.4	8116.7	8121.0
7.5°	8103.6	8099.2	8112.3	8121.0	8116.7	8112.3	8121.0	8116.7	8125.4	8121.0	8129.7
10°	8068.7	8073.1	8081.8	8094.8	8099.2	8103.6	8112.3	8112.3	8125.4	8107.9	8116.7
12.5°	8016.6	8033.9	8055.8	8064.4	8081.8	8081.8	8090.6	8094.8	8103.6	8099.2	8112.3
15°	7951.3	7973.0	7999.1	8020.9	8042.7	8055.8	8068.7	8073.1	8086.2	8073.1	8077.5
17.5°	7872.9	7899.0	7938.2	7964.3	7999.1	8012.2	8029.6	8038.3	8051.4	8042.7	8047.0
20°	7764.1	7794.6	7838.1	7877.3	7899.0	7929.5	7951.3	7964.3	7973.0	7964.3	7968.6
22.5°	7611.8	7655.4	7711.9	7742.4	7785.9	7812.0	7816.4	7846.8	7868.5	7846.8	7855.6
25°	7433.3	7476.9	7520.4	7585.7	7624.9	7655.4	7685.8	7690.2	7711.9	7707.5	7703.2
27.5°	7137.4	7194.0	7268.0	7320.2	7372.4	7420.3	7455.2	7463.8	7485.6	7476.9	7481.2
30°	6732.6	6793.6	6863.3	6945.9	7019.9	7067.8	7111.3	7141.8	7163.5	7150.5	7146.1
32.5°	6158.2	6219.1	6293.2	6375.8	6462.9	6532.4	6584.7	6623.9	6650.0	6641.3	6619.5
35°	5501.1	5518.4	5566.4	5631.6	5705.6	5779.6	5827.5	5870.9	5901.4	5910.1	5910.1
37.5°	4826.5	4769.9	4735.1	4735.1	4778.6	4809.0	4852.6	4878.7	4926.6	4943.9	4957.0
40°	4173.6	4043.1	3921.2	3829.9	3768.9	3764.6	3764.6	3777.6	3821.1	3877.7	3930.0
42.5°	3590.5	3381.5	3194.4	3024.7	2902.9	2833.2	2802.8	2807.1	2842.0	2894.1	2981.1
45°	3124.8	2863.7	2628.7	2424.1	2258.7	2149.9	2097.7	2093.4	2119.4	2180.4	2276.2
47.5°	2763.6	2485.0	2219.5	1984.5	1806.2	1688.6	1627.7	1610.3	1627.7	1684.2	1797.4
50°	2463.3	2176.1	1901.9	1658.1	1466.7	1344.8	1288.2	1266.5	1288.2	1336.1	1449.2
52.5°	2184.7	1888.8	1632.0	1397.0	1192.5	1088.0	1027.1	1014.0	1027.1	1083.6	1175.1
55°	1862.7	1610.3	1357.8	1122.8	944.4	840.0	792.1	779.1	792.1	844.3	940.1
57.5°	1545.0	1327.4	1105.5	892.2	739.9	648.4	605.0	587.5	618.0	652.8	766.0
60°	1249.0	1075.0	887.8	700.7	574.5	491.8	456.9	452.6	461.3	504.9	583.1
62.5°	979.3	835.6	687.6	535.3	430.9	396.0	352.5	348.2	356.8	382.9	443.9
65°	705.1	613.7	500.5	391.7	309.0	261.1	243.8	248.1	256.7	274.2	330.8
67.5°	491.8	426.5	348.2	274.2	213.3	191.5	174.1	169.7	174.1	204.6	235.0
70°	330.8	291.6	235.0	208.9	148.0	117.5	121.8	108.8	126.2	126.2	152.3
72.5°	217.6	191.5	156.6	121.8	104.5	82.7	82.7	78.4	87.0	91.4	113.2
75°	113.2	87.0	87.0	60.9	43.6	21.7	39.2	34.8	30.5	34.8	43.6
77.5°	78.4	65.3	60.9	47.9	43.6	34.8	34.8	34.8	34.8	39.2	43.6
80°	47.9	47.9	34.8	30.5	26.1	21.7	26.1	26.1	26.1	26.1	30.5
82.5°	30.5	26.1	26.1	21.7	21.7	17.4	17.4	17.4	17.4	17.4	26.1
85°	26.1	17.4	17.4	13.1	17.4	30.5	13.1	17.4	17.4	17.4	13.1
87.5°	8.7	13.1	13.1	13.1	8.7	4.4	8.7	13.1	13.1	21.7	17.4
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°	8107.9	8107.9	8107.9	8107.9	8107.9	8107.9	8107.9	8107.9	8107.9	8107.9	8107.9
2.5°	8121.0	8125.4	8125.4	8121.0	8121.0	8112.3	8129.7	8116.7	8121.0	8138.4	8125.4
5°	8129.7	8134.0	8134.0	8129.7	8129.7	8129.7	8134.0	8134.0	8129.7	8125.4	8134.0
7.5°	8147.1	8142.8	8142.8	8134.0	8134.0	8125.4	8134.0	8121.0	8129.7	8121.0	8134.0
10°	8125.4	8129.7	8125.4	8121.0	8121.0	8116.7	8116.7	8103.6	8107.9	8094.8	8103.6
12.5°	8112.3	8107.9	8107.9	8099.2	8090.6	8081.8	8077.5	8064.4	8064.4	8033.9	8047.0
15°	8077.5	8081.8	8068.7	8051.4	8042.7	8020.9	8012.2	7994.7	7977.4	7955.7	7960.0
17.5°	8047.0	8033.9	8016.6	7999.1	7964.3	7946.9	7929.5	7903.4	7894.6	7868.5	7859.9
20°	7955.7	7946.9	7925.2	7894.6	7872.9	7833.7	7816.4	7790.3	7768.4	7742.4	7729.3
22.5°	7838.1	7829.4	7803.3	7772.8	7738.0	7720.6	7703.2	7655.4	7633.5	7607.4	7603.1
25°	7690.2	7677.1	7651.0	7616.2	7598.7	7550.9	7533.4	7498.6	7490.0	7463.8	7459.5
27.5°	7463.8	7446.4	7416.0	7372.4	7342.0	7311.5	7294.1	7268.0	7259.3	7233.1	7228.9
30°	7124.4	7102.6	7041.7	7024.3	6972.0	6941.6	6941.6	6906.7	6911.1	6893.7	6893.7
32.5°	6589.1	6554.3	6506.3	6471.5	6436.7	6419.3	6419.3	6406.2	6415.0	6415.0	6423.7
35°	5879.7	5831.8	5805.7	5783.9	5783.9	5801.3	5853.6	5866.7	5892.8	5914.5	5931.9
37.5°	4970.0	4965.8	4996.2	5022.3	5087.6	5161.6	5253.0	5331.3	5405.3	5457.5	5509.7
40°	3986.5	4095.3	4182.3	4304.3	4404.3	4547.9	4713.3	4848.2	4974.4	5065.9	5161.6
42.5°	3111.7	3251.0	3433.8	3612.2	3790.7	3986.5	4204.2	4391.3	4556.6	4682.8	4782.9
45°	2424.1	2615.6	2837.6	3063.9	3294.5	3538.3	3764.6	3956.0	4130.2	4260.7	4360.8
47.5°	1954.1	2163.0	2415.4	2663.5	2924.6	3181.3	3433.8	3599.2	3742.8	3847.2	3938.7
50°	1614.6	1836.6	2102.1	2384.9	2646.0	2902.9	3120.4	3281.4	3399.0	3490.4	3546.9
52.5°	1349.1	1584.1	1867.1	2149.9	2411.0	2646.0	2842.0	2963.8	3059.5	3124.8	3177.0
55°	1114.1	1340.5	1606.0	1871.4	2128.2	2350.1	2511.1	2602.6	2676.5	2715.7	2746.1
57.5°	909.6	1118.5	1362.2	1606.0	1827.9	2010.7	2136.9	2228.3	2263.1	2293.6	2289.2
60°	713.8	909.6	1131.5	1340.5	1531.9	1679.9	1771.3	1823.5	1849.6	1862.7	1854.0
62.5°	561.4	739.9	909.6	1092.4	1231.6	1357.8	1444.9	1444.9	1457.9	1462.3	1475.4
65°	417.8	552.7	700.7	835.6	948.7	1031.4	1079.4	1092.4	1109.8	1105.5	1096.7
67.5°	309.0	409.1	517.9	618.0	696.3	748.5	783.3	813.9	809.5	800.8	796.4
70°	213.3	278.6	374.3	435.2	491.8	544.0	552.7	557.0	561.4	565.8	557.0
72.5°	148.0	195.8	248.1	300.3	335.1	356.8	378.7	382.9	382.9	382.9	378.7
75°	74.0	100.1	148.0	169.7	200.2	208.9	226.3	226.3	239.4	221.9	217.6
77.5°	65.3	78.4	104.5	121.8	134.9	148.0	152.3	165.4	161.0	152.3	156.6
80°	39.2	47.9	65.3	74.0	91.4	95.7	100.1	104.5	100.1	104.5	104.5
82.5°	30.5	34.8	43.6	43.6	56.5	56.5	60.9	60.9	65.3	65.3	65.3
85°	17.4	30.5	26.1	52.2	34.8	34.8	43.6	52.2	43.6	43.6	52.2
87.5°	17.4	17.4	13.1	17.4	17.4	17.4	21.7	26.1	26.1	30.5	26.1
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: P249196

CATALOG NUMBER: LSR8B150D010 EC8B150827 8LBDW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	8107.9	8107.9	8107.9	8107.9
2.5°	8121.0	8129.7	8116.7	8112.3
5°	8134.0	8134.0	8125.4	8125.4
7.5°	8134.0	8134.0	8121.0	8112.3
10°	8099.2	8099.2	8086.2	8077.5
12.5°	8033.9	8033.9	8029.6	8016.6
15°	7951.3	7951.3	7933.8	7920.8
17.5°	7838.1	7846.8	7825.1	7825.1
20°	7716.3	7711.9	7694.5	7685.8
22.5°	7590.1	7581.3	7577.0	7550.9
25°	7455.2	7446.4	7433.3	7420.3
27.5°	7224.5	7220.1	7207.0	7189.7
30°	6871.9	6867.6	6850.2	6850.2
32.5°	6415.0	6410.6	6393.3	6397.6
35°	5940.6	5958.0	5949.3	5931.9
37.5°	5544.5	5557.6	5566.4	5557.6
40°	5213.8	5253.0	5257.3	5266.1
42.5°	4861.3	4913.5	4931.0	4939.6
45°	4439.1	4487.0	4526.2	4517.5
47.5°	4008.2	4043.1	4077.9	4051.8
50°	3594.8	3616.6	3629.7	3629.7
52.5°	3203.2	3203.2	3198.8	3203.2
55°	2754.9	2754.9	2737.5	2746.1
57.5°	2284.8	2293.6	2280.5	2258.7
60°	1849.6	1827.9	1819.1	1806.2
62.5°	1440.6	1440.6	1410.1	1449.2
65°	1079.4	1066.3	1053.2	1048.8
67.5°	783.3	779.1	766.0	761.6
70°	552.7	535.3	531.0	522.2
72.5°	369.9	369.9	361.2	361.2
75°	226.3	204.6	200.2	204.6
77.5°	156.6	152.3	152.3	148.0
80°	104.5	100.1	108.8	95.7
82.5°	65.3	69.6	65.3	69.6
85°	43.6	52.2	47.9	47.9
87.5°	26.1	26.1	26.1	26.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)