

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: P249610

Luminaire Tested: **LSR8B150D010 EC8B150927 8LBDW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249610
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 EC8B150927 8LBDW0MW
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12753.0 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

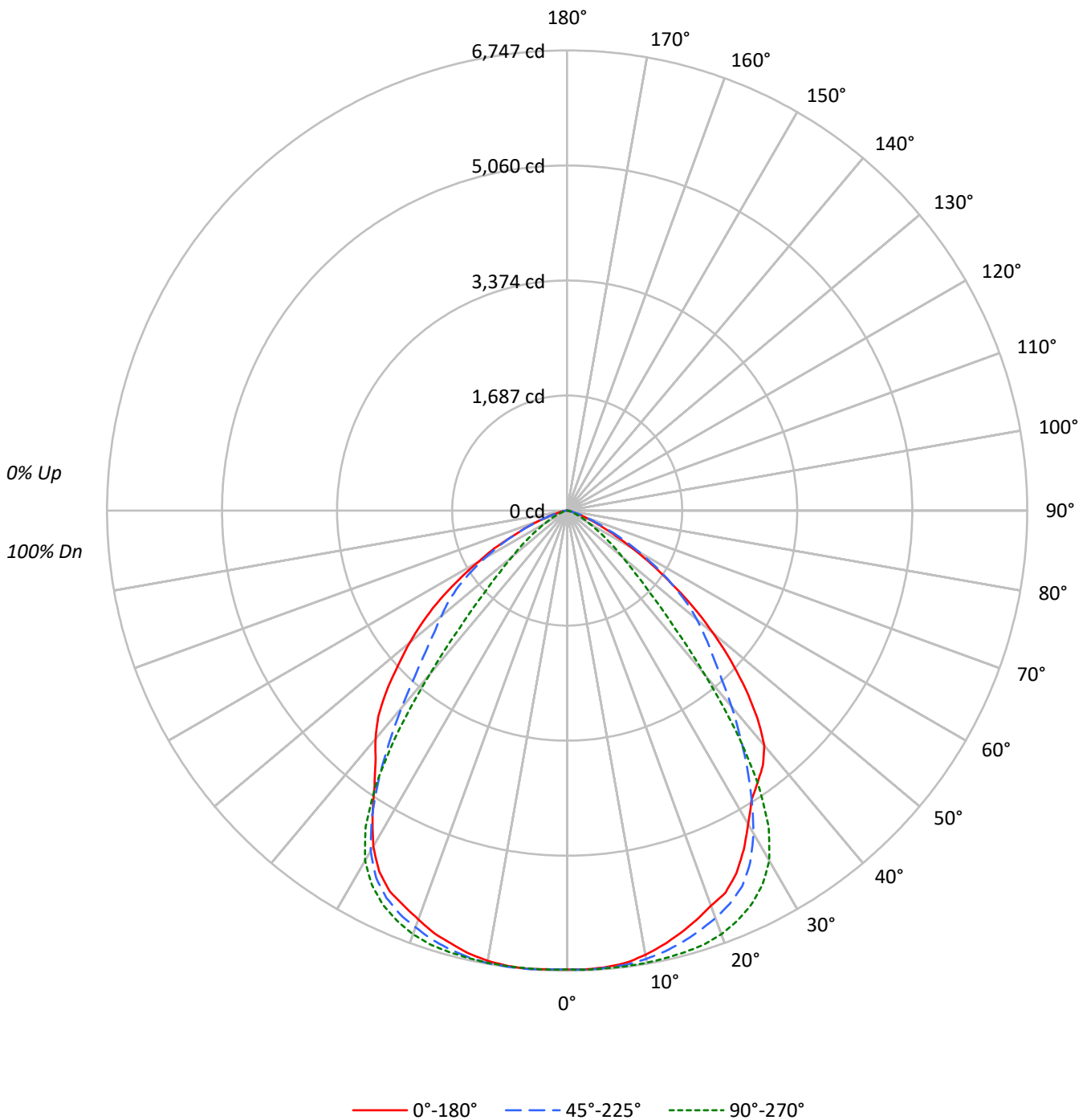
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

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°	642.2	5.0
10°-20°	1864.9	14.6
20°-30°	2830.6	22.2
30°-40°	2973.0	23.3
40°-50°	2228.9	17.5
50°-60°	1430.1	11.2
60°-70°	611.8	4.8
70°-80°	144.5	1.1
80°-90°	26.9	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°	5337.7	41.9
0°-40°	8310.7	65.2
0°-60°	11969.8	93.9
0°-90°	12753.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12753.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6729	6729	6729	6729	6729	
5°	6718	6729	6736	6747	6743	638
15°	6414	6548	6700	6656	6574	1809
25°	5869	6075	6382	6266	6158	2681
35°	4869	4598	4872	4814	4923	3056
45°	3698	3023	1737	2936	3749	2832
55°	1871	1871	646	1950	2279	1697
65°	564	664	206	856	870	601
75°	87	101	29	173	170	126
85°	29	18	14	29	40	30
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°	6728.7	6728.7	6728.7	6728.7	6728.7	6728.7	6728.7	6728.7	6728.7	6728.7	6728.7
2.5°	6732.3	6739.6	6735.9	6735.9	6732.3	6735.9	6735.9	6743.2	6743.2	6735.9	6732.3
5°	6717.8	6725.1	6725.1	6717.8	6717.8	6735.9	6725.1	6732.3	6732.3	6728.7	6728.7
7.5°	6685.4	6685.4	6699.8	6689.0	6689.0	6699.8	6696.2	6703.4	6710.7	6714.3	6714.3
10°	6613.1	6620.4	6624.0	6624.0	6627.6	6638.4	6645.7	6660.1	6667.3	6674.5	6678.2
12.5°	6522.9	6533.7	6537.3	6533.7	6544.6	6559.0	6577.1	6595.1	6606.0	6620.4	6631.2
15°	6414.5	6414.5	6421.7	6432.6	6439.8	6461.4	6479.6	6501.2	6530.1	6548.2	6566.2
17.5°	6295.4	6302.6	6313.4	6313.4	6327.9	6363.9	6374.8	6407.3	6439.8	6457.8	6494.1
20°	6165.3	6172.5	6183.3	6190.7	6208.7	6237.6	6259.2	6288.1	6324.2	6356.8	6392.8
22.5°	6064.2	6049.8	6056.9	6064.2	6082.3	6107.5	6132.8	6168.9	6205.0	6237.6	6273.7
25°	5869.1	5872.7	5883.6	5890.7	5912.6	5934.2	5963.1	6006.4	6038.9	6075.0	6114.7
27.5°	5605.5	5609.1	5627.1	5627.1	5645.1	5681.4	5699.4	5735.5	5778.9	5814.9	5861.9
30°	5305.7	5312.9	5312.9	5327.3	5338.1	5356.2	5374.3	5410.5	5432.1	5464.6	5529.7
32.5°	5031.2	5038.4	5034.8	5031.2	5020.4	5016.7	5013.1	5020.4	5027.6	5038.4	5063.6
35°	4868.7	4850.6	4836.2	4811.0	4782.0	4745.9	4713.4	4670.1	4630.3	4597.8	4561.7
37.5°	4713.4	4709.7	4688.1	4652.0	4594.2	4529.1	4453.3	4359.4	4265.4	4164.4	4066.9
40°	4496.6	4485.8	4467.7	4417.2	4352.2	4272.8	4171.6	4056.1	3904.3	3749.1	3590.1
42.5°	4128.2	4131.9	4110.2	4070.5	4009.0	3933.2	3828.5	3702.0	3539.6	3355.3	3149.4
45°	3698.4	3698.4	3691.2	3658.7	3615.4	3554.0	3474.6	3369.8	3210.9	3023.0	2802.7
47.5°	3250.6	3254.2	3243.4	3236.2	3218.1	3178.4	3120.6	3041.1	2929.2	2748.5	2528.2
50°	2795.5	2795.5	2813.6	2809.9	2809.9	2795.5	2770.3	2723.3	2625.8	2481.3	2275.4
52.5°	2340.5	2347.6	2358.6	2373.0	2391.0	2419.9	2391.0	2369.4	2307.9	2195.9	2019.0
55°	1870.9	1878.1	1896.2	1921.4	1943.2	1972.1	1979.2	1979.2	1946.7	1870.9	1737.2
57.5°	1470.0	1459.1	1473.6	1495.2	1524.1	1553.1	1574.8	1600.0	1596.4	1545.9	1437.5
60°	1105.2	1108.8	1119.6	1141.3	1163.0	1188.2	1217.1	1238.9	1249.6	1224.4	1155.7
62.5°	805.4	805.4	819.9	841.5	852.4	888.5	906.5	917.4	928.2	924.5	881.3
65°	563.5	570.6	577.9	588.7	599.5	621.2	632.0	653.7	660.9	664.5	632.0
67.5°	397.3	386.4	393.8	400.8	411.8	426.3	447.9	447.9	458.7	458.7	437.1
70°	252.8	252.8	256.5	267.3	274.5	278.1	285.4	292.5	303.4	299.8	299.8
72.5°	169.8	166.2	169.8	173.4	177.0	187.8	187.8	191.5	198.7	202.3	187.8
75°	86.7	90.3	97.4	93.9	104.7	97.4	101.1	111.9	108.3	101.1	101.1
77.5°	72.2	72.2	72.2	68.6	75.8	75.8	72.2	79.4	75.8	75.8	72.2
80°	50.5	54.2	50.5	46.9	50.5	46.9	46.9	46.9	46.9	46.9	43.3
82.5°	39.7	32.5	36.1	32.5	36.1	36.1	32.5	28.9	28.9	32.5	28.9
85°	28.9	21.6	25.3	25.3	21.6	21.6	21.6	21.6	21.6	18.0	18.0
87.5°	18.0	10.9	10.9	10.9	14.4	14.4	14.4	10.9	14.4	14.4	7.2
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°	6728.7	6728.7	6728.7	6728.7	6728.7	6728.7	6728.7	6728.7	6728.7	6728.7	6728.7
2.5°	6739.6	6735.9	6743.2	6739.6	6739.6	6735.9	6739.6	6735.9	6743.2	6728.7	6732.3
5°	6739.6	6732.3	6735.9	6739.6	6743.2	6735.9	6735.9	6735.9	6743.2	6735.9	6739.6
7.5°	6725.1	6721.5	6732.3	6739.6	6735.9	6732.3	6739.6	6735.9	6743.2	6739.6	6746.7
10°	6696.2	6699.8	6707.0	6717.8	6721.5	6725.1	6732.3	6732.3	6743.2	6728.7	6735.9
12.5°	6652.9	6667.3	6685.4	6692.6	6707.0	6707.0	6714.3	6717.8	6725.1	6721.5	6732.3
15°	6598.7	6616.8	6638.4	6656.5	6674.5	6685.4	6696.2	6699.8	6710.7	6699.8	6703.4
17.5°	6533.7	6555.4	6587.9	6609.5	6638.4	6649.3	6663.7	6670.9	6681.8	6674.5	6678.2
20°	6443.3	6468.8	6504.8	6537.3	6555.4	6580.6	6598.7	6609.5	6616.8	6609.5	6613.1
22.5°	6317.0	6353.1	6400.1	6425.3	6461.4	6483.2	6486.8	6512.1	6530.1	6512.1	6519.3
25°	6168.9	6205.0	6241.2	6295.4	6327.9	6353.1	6378.4	6382.0	6400.1	6396.4	6392.8
27.5°	5923.2	5970.3	6031.7	6075.0	6118.3	6158.1	6187.0	6194.1	6212.2	6205.0	6208.7
30°	5587.4	5638.0	5695.8	5764.4	5825.8	5865.5	5901.6	5927.0	5945.0	5934.2	5930.6
32.5°	5110.7	5161.3	5222.7	5291.2	5363.6	5421.3	5464.6	5497.2	5518.8	5511.6	5493.5
35°	4565.4	4579.8	4619.5	4673.7	4735.0	4796.4	4836.2	4872.3	4897.6	4904.8	4904.8
37.5°	4005.4	3958.5	3929.6	3929.6	3965.7	3990.9	4027.2	4048.8	4088.6	4103.0	4113.8
40°	3463.6	3355.3	3254.2	3178.4	3127.8	3124.2	3124.2	3135.0	3171.2	3218.1	3261.5
42.5°	2979.7	2806.3	2651.1	2510.2	2409.1	2351.2	2326.0	2329.6	2358.6	2401.9	2474.0
45°	2593.2	2376.6	2181.5	2011.7	1874.5	1784.1	1740.9	1737.2	1758.9	1809.4	1889.0
47.5°	2293.5	2062.4	1842.0	1647.0	1499.0	1401.3	1350.8	1336.4	1350.8	1397.7	1491.6
50°	2044.2	1806.0	1578.4	1376.1	1217.1	1116.1	1069.1	1051.1	1069.1	1108.8	1202.7
52.5°	1813.0	1567.5	1354.4	1159.4	989.7	902.9	852.4	841.5	852.4	899.3	975.3
55°	1545.9	1336.4	1126.9	931.8	783.8	697.1	657.3	646.5	657.3	700.8	780.2
57.5°	1282.3	1101.6	917.4	740.4	614.0	538.1	502.1	487.6	512.9	541.7	635.6
60°	1036.6	892.1	736.8	581.5	476.8	408.2	379.2	375.6	382.8	419.0	484.0
62.5°	812.7	693.4	570.6	444.3	357.5	328.6	292.5	289.0	296.1	317.8	368.4
65°	585.1	509.3	415.4	325.0	256.5	216.7	202.3	205.9	213.1	227.6	274.5
67.5°	408.2	353.9	289.0	227.6	177.0	158.8	144.5	140.8	144.5	169.8	195.1
70°	274.5	242.0	195.1	173.4	122.8	97.4	101.1	90.3	104.7	104.7	126.3
72.5°	180.6	158.8	130.0	101.1	86.7	68.6	68.6	65.0	72.2	75.8	93.9
75°	93.9	72.2	72.2	50.5	36.1	18.0	32.5	28.9	25.3	28.9	36.1
77.5°	65.0	54.2	50.5	39.7	36.1	28.9	28.9	28.9	28.9	32.5	36.1
80°	39.7	39.7	28.9	25.3	21.6	18.0	21.6	21.6	21.6	21.6	25.3
82.5°	25.3	21.6	21.6	18.0	18.0	14.4	14.4	14.4	14.4	14.4	21.6
85°	21.6	14.4	14.4	10.9	14.4	25.3	10.9	14.4	14.4	14.4	10.9
87.5°	7.2	10.9	10.9	10.9	7.2	3.6	7.2	10.9	10.9	18.0	14.4
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°	6728.7	6728.7	6728.7	6728.7	6728.7	6728.7	6728.7	6728.7	6728.7	6728.7	6728.7
2.5°	6739.6	6743.2	6743.2	6739.6	6739.6	6732.3	6746.7	6735.9	6739.6	6754.0	6743.2
5°	6746.7	6750.3	6750.3	6746.7	6746.7	6746.7	6750.3	6750.3	6746.7	6743.2	6750.3
7.5°	6761.2	6757.6	6757.6	6750.3	6750.3	6743.2	6750.3	6739.6	6746.7	6739.6	6750.3
10°	6743.2	6746.7	6743.2	6739.6	6739.6	6735.9	6735.9	6725.1	6728.7	6717.8	6725.1
12.5°	6732.3	6728.7	6728.7	6721.5	6714.3	6707.0	6703.4	6692.6	6692.6	6667.3	6678.2
15°	6703.4	6707.0	6696.2	6681.8	6674.5	6656.5	6649.3	6634.8	6620.4	6602.4	6606.0
17.5°	6678.2	6667.3	6652.9	6638.4	6609.5	6595.1	6580.6	6559.0	6551.8	6530.1	6522.9
20°	6602.4	6595.1	6577.1	6551.8	6533.7	6501.2	6486.8	6465.2	6447.0	6425.3	6414.5
22.5°	6504.8	6497.6	6476.0	6450.6	6421.7	6407.3	6392.8	6353.1	6335.0	6313.4	6309.8
25°	6382.0	6371.2	6349.5	6320.6	6306.1	6266.5	6252.0	6223.0	6215.8	6194.1	6190.7
27.5°	6194.1	6179.7	6154.4	6118.3	6093.1	6067.8	6053.4	6031.7	6024.5	6002.8	5999.2
30°	5912.6	5894.4	5843.8	5829.4	5786.1	5760.8	5760.8	5731.9	5735.5	5721.1	5721.1
32.5°	5468.3	5439.4	5399.6	5370.6	5341.8	5327.3	5327.3	5316.5	5323.7	5323.7	5331.0
35°	4879.5	4839.9	4818.0	4800.0	4800.0	4814.4	4857.9	4868.7	4890.4	4908.4	4922.9
37.5°	4124.6	4121.1	4146.3	4168.0	4222.1	4283.6	4359.4	4424.5	4485.8	4529.1	4572.4
40°	3308.4	3398.7	3470.8	3572.1	3655.1	3774.3	3911.5	4023.6	4128.2	4204.1	4283.6
42.5°	2582.4	2698.0	2849.7	2997.8	3145.8	3308.4	3489.0	3644.3	3781.6	3886.3	3969.3
45°	2011.7	2170.7	2355.0	2542.7	2734.1	2936.4	3124.2	3283.1	3427.6	3536.0	3619.0
47.5°	1621.7	1795.0	2004.5	2210.4	2427.1	2640.2	2849.7	2987.0	3106.1	3192.8	3268.7
50°	1340.0	1524.1	1744.5	1979.2	2195.9	2409.1	2589.6	2723.3	2820.8	2896.6	2943.6
52.5°	1119.6	1314.7	1549.5	1784.1	2000.9	2195.9	2358.6	2459.6	2539.1	2593.2	2636.5
55°	924.5	1112.4	1332.8	1553.1	1766.1	1950.3	2084.0	2159.9	2221.2	2253.7	2279.0
57.5°	754.9	928.2	1130.5	1332.8	1517.0	1668.7	1773.4	1849.3	1878.1	1903.4	1899.8
60°	592.4	754.9	939.0	1112.4	1271.4	1394.1	1470.0	1513.4	1535.0	1545.9	1538.6
62.5°	465.9	614.0	754.9	906.5	1022.2	1126.9	1199.1	1199.1	1209.9	1213.5	1224.4
65°	346.7	458.7	581.5	693.4	787.3	856.0	895.7	906.5	921.0	917.4	910.1
67.5°	256.5	339.5	429.8	512.9	577.9	621.2	650.1	675.4	671.8	664.5	660.9
70°	177.0	231.2	310.6	361.2	408.2	451.5	458.7	462.3	465.9	469.6	462.3
72.5°	122.8	162.6	205.9	249.2	278.1	296.1	314.2	317.8	317.8	317.8	314.2
75°	61.4	83.0	122.8	140.8	166.2	173.4	187.8	187.8	198.7	184.2	180.6
77.5°	54.2	65.0	86.7	101.1	111.9	122.8	126.3	137.2	133.6	126.3	130.0
80°	32.5	39.7	54.2	61.4	75.8	79.4	83.0	86.7	83.0	86.7	86.7
82.5°	25.3	28.9	36.1	36.1	46.9	46.9	50.5	50.5	54.2	54.2	54.2
85°	14.4	25.3	21.6	43.3	28.9	28.9	36.1	43.3	36.1	36.1	43.3
87.5°	14.4	14.4	10.9	14.4	14.4	14.4	18.0	21.6	21.6	25.3	21.6
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: P249610

CATALOG NUMBER: LSR8B150D010 EC8B150927 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	6728.7	6728.7	6728.7	6728.7
2.5°	6739.6	6746.7	6735.9	6732.3
5°	6750.3	6750.3	6743.2	6743.2
7.5°	6750.3	6750.3	6739.6	6732.3
10°	6721.5	6721.5	6710.7	6703.4
12.5°	6667.3	6667.3	6663.7	6652.9
15°	6598.7	6598.7	6584.3	6573.5
17.5°	6504.8	6512.1	6494.1	6494.1
20°	6403.7	6400.1	6385.6	6378.4
22.5°	6299.0	6291.7	6288.1	6266.5
25°	6187.0	6179.7	6168.9	6158.1
27.5°	5995.6	5992.0	5981.1	5966.7
30°	5703.0	5699.4	5685.0	5685.0
32.5°	5323.7	5320.1	5305.7	5309.3
35°	4930.1	4944.5	4937.3	4922.9
37.5°	4601.4	4612.3	4619.5	4612.3
40°	4326.9	4359.4	4363.1	4370.3
42.5°	4034.4	4077.7	4092.2	4099.4
45°	3683.9	3723.8	3756.3	3749.1
47.5°	3326.4	3355.3	3384.2	3362.5
50°	2983.4	3001.4	3012.2	3012.2
52.5°	2658.3	2658.3	2654.7	2658.3
55°	2286.2	2286.2	2271.8	2279.0
57.5°	1896.2	1903.4	1892.6	1874.5
60°	1535.0	1517.0	1509.8	1499.0
62.5°	1195.5	1195.5	1170.2	1202.7
65°	895.7	884.9	874.0	870.4
67.5°	650.1	646.5	635.6	632.0
70°	458.7	444.3	440.7	433.4
72.5°	307.0	307.0	299.8	299.8
75°	187.8	169.8	166.2	169.8
77.5°	130.0	126.3	126.3	122.8
80°	86.7	83.0	90.3	79.4
82.5°	54.2	57.8	54.2	57.8
85°	36.1	43.3	39.7	39.7
87.5°	21.6	21.6	21.6	21.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)