

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: P248449

Luminaire Tested: **LSR8B150D010 EC8B150830 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248449
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: LSR8B150D010 EC8B150830 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15957.0 lumens
Efficiency: N/A
Efficacy: 100.7 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

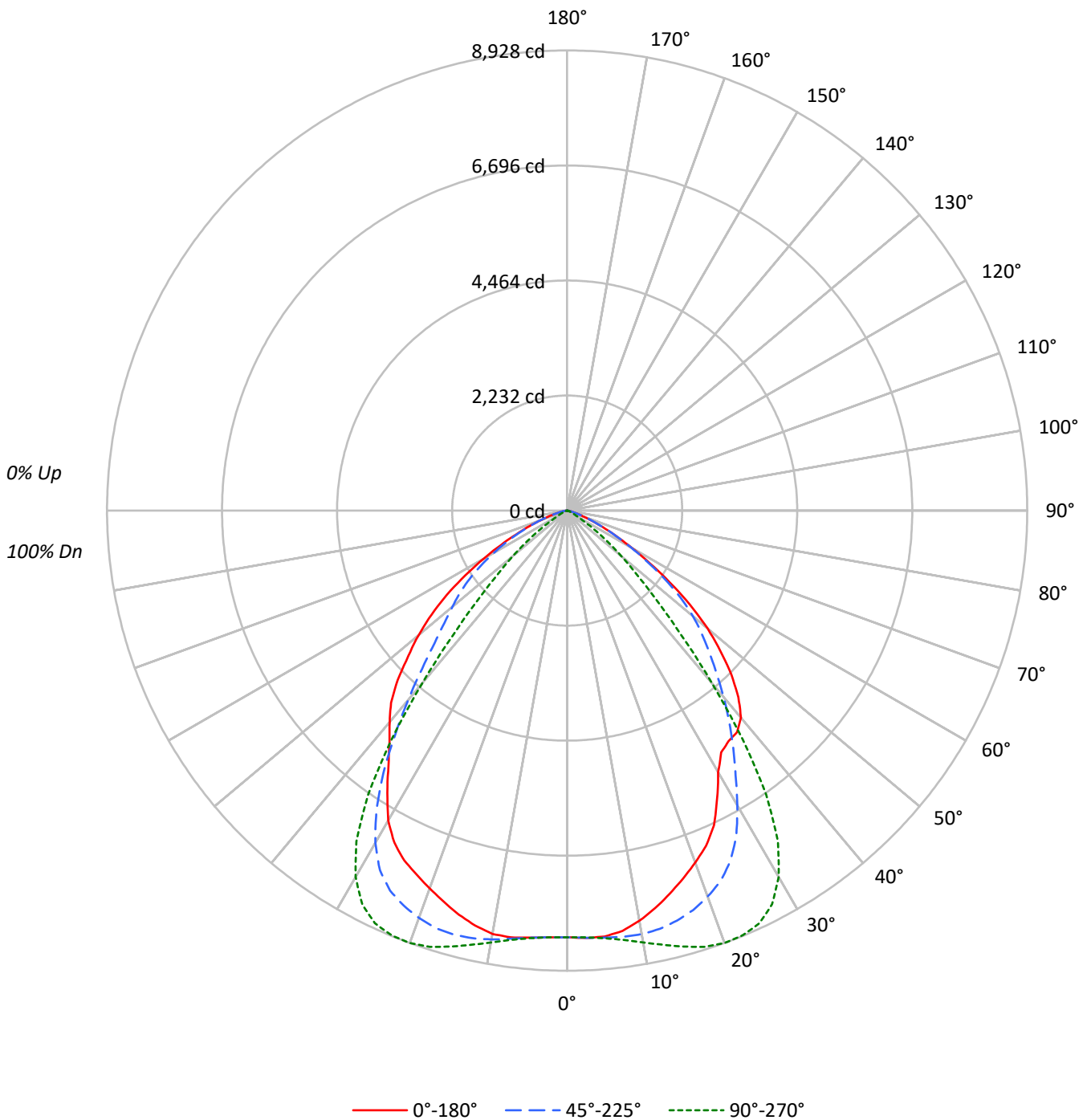
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	255260	255260	255260
5°	256783	257733	257461
10°	253007	266356	261127
15°	245611	279556	259077
20°	238482	292985	255930
25°	229326	300487	254742
30°	208702	292249	247189
35°	205594	253232	227427
40°	211184	175632	215600
45°	196594	106149	202726
50°	170524	65555	180642
55°	130861	34251	153306
60°	89154	13821	115710
65°	55461	7056	79824
70°	30104	4364	48731
75°	15703	2085	28797
80°	7032	2344	15591
85°	4670	1557	14011



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	796.1	5.0
10°-20°	2358.3	14.8
20°-30°	3597.8	22.5
30°-40°	3754.4	23.5
40°-50°	2820.0	17.7
50°-60°	1735.1	10.9
60°-70°	706.1	4.4
70°-80°	166.4	1.0
80°-90°	22.9	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°	6752.2	42.3
0°-40°	10506.5	65.8
0°-60°	15061.6	94.4
0°-90°	15957.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15957.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8278	8278	8278	8278	8278	
5°	8296	8318	8326	8318	8318	785
15°	7694	8234	8757	8515	8115	2167
25°	6740	7496	8832	8133	7487	3064
35°	5462	5615	6727	6217	6042	3448
45°	4508	3902	2434	3634	4649	3439
55°	2434	2311	637	2311	2852	2188
65°	760	769	97	1032	1094	793
75°	132	132	18	233	242	159
85°	13	13	4	31	40	19
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°	8277.9	8277.9	8277.9	8277.9	8277.9	8277.9	8277.9	8277.9	8277.9	8277.9	8277.9
2.5°	8300.0	8286.7	8300.0	8300.0	8304.4	8295.6	8300.0	8304.4	8295.6	8295.6	8295.6
5°	8295.6	8286.7	8295.6	8291.2	8300.0	8300.0	8308.8	8308.8	8317.5	8317.5	8330.7
7.5°	8225.2	8207.7	8225.2	8238.5	8247.2	8264.8	8286.7	8304.4	8321.9	8339.5	8361.5
10°	8080.2	8080.2	8093.4	8119.8	8146.1	8176.9	8216.4	8260.4	8304.4	8343.8	8383.4
12.5°	7900.1	7886.9	7913.3	7948.4	7988.0	8036.4	8097.8	8163.8	8234.1	8313.1	8374.7
15°	7693.6	7680.4	7711.1	7746.3	7794.7	7865.0	7939.7	8027.5	8128.6	8234.1	8335.1
17.5°	7482.7	7478.3	7509.0	7557.4	7597.0	7671.6	7768.3	7873.7	7988.0	8128.6	8260.4
20°	7267.4	7263.0	7293.8	7333.3	7386.0	7456.3	7553.0	7676.0	7812.2	7970.4	8124.2
22.5°	7043.3	7047.7	7074.0	7118.0	7162.0	7236.6	7337.6	7460.7	7610.1	7781.4	7952.8
25°	6740.1	6718.2	6753.3	6797.3	6871.9	6933.4	7030.2	7162.0	7315.7	7495.9	7698.0
27.5°	6300.7	6296.3	6327.2	6366.6	6432.5	6507.2	6612.7	6748.9	6911.5	7109.2	7306.9
30°	5861.3	5870.1	5883.4	5922.9	5966.8	6041.5	6147.0	6261.3	6415.0	6603.9	6814.8
32.5°	5562.6	5562.6	5580.2	5606.5	5637.3	5676.8	5751.6	5835.0	5953.7	6085.5	6239.2
35°	5461.5	5444.0	5461.5	5465.9	5470.3	5479.1	5492.2	5518.7	5558.1	5615.3	5672.4
37.5°	5417.6	5404.4	5404.4	5386.9	5364.8	5338.5	5303.3	5263.8	5219.9	5162.7	5118.9
40°	5246.3	5237.4	5228.6	5211.1	5162.7	5110.0	5052.9	4960.6	4859.5	4718.9	4578.4
42.5°	4916.7	4907.9	4903.5	4868.4	4824.4	4762.9	4697.0	4600.3	4472.9	4292.8	4090.6
45°	4508.1	4490.5	4477.3	4446.6	4415.7	4363.1	4301.6	4213.6	4086.2	3901.7	3660.1
47.5°	4033.5	4024.7	4020.3	4007.2	3976.5	3945.6	3906.1	3835.8	3721.6	3545.8	3295.4
50°	3554.6	3537.1	3545.8	3541.5	3528.3	3506.3	3479.9	3431.6	3343.7	3185.5	2957.1
52.5°	3005.3	3005.3	3001.0	3014.1	3018.6	3014.1	3018.6	2965.9	2891.2	2772.5	2579.2
55°	2434.1	2434.1	2447.4	2465.0	2482.5	2486.9	2482.5	2460.6	2407.8	2311.1	2139.8
57.5°	1898.1	1889.4	1915.7	1942.1	1959.7	1977.2	1964.0	1946.5	1915.7	1836.6	1704.8
60°	1445.6	1445.6	1463.1	1480.7	1498.3	1515.9	1511.5	1507.1	1480.7	1427.9	1322.6
62.5°	1063.3	1067.7	1067.7	1080.9	1098.4	1116.1	1129.2	1116.1	1102.8	1067.7	997.4
65°	760.1	755.7	760.1	773.3	786.5	804.1	812.9	808.5	795.3	768.9	716.2
67.5°	509.7	505.3	522.8	527.2	536.0	553.7	549.3	553.7	549.3	527.2	483.4
70°	333.9	325.1	333.9	329.5	342.7	347.1	355.9	360.3	355.9	342.7	329.5
72.5°	206.5	202.1	206.5	210.9	215.3	219.6	228.5	228.5	224.1	215.3	197.7
75°	131.8	118.6	123.0	114.3	123.0	123.0	131.8	136.2	131.8	131.8	123.0
77.5°	79.1	79.1	79.1	79.1	79.1	79.1	79.1	83.5	87.8	79.1	74.7
80°	39.6	39.6	44.0	44.0	44.0	48.4	44.0	44.0	44.0	48.4	35.2
82.5°	30.7	26.3	26.3	26.3	30.7	26.3	26.3	26.3	26.3	26.3	26.3
85°	13.2	17.5	13.2	8.8	13.2	13.2	17.5	13.2	13.2	13.2	17.5
87.5°	4.4	4.4	0.0	0.0	0.0	4.4	0.0	4.4	4.4	8.8	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°	8277.9	8277.9	8277.9	8277.9	8277.9	8277.9	8277.9	8277.9	8277.9	8277.9	8277.9
2.5°	8300.0	8291.2	8291.2	8286.7	8295.6	8286.7	8291.2	8286.7	8286.7	8295.6	8286.7
5°	8330.7	8335.1	8326.3	8321.9	8335.1	8335.1	8335.1	8326.3	8326.3	8330.7	8326.3
7.5°	8374.7	8383.4	8387.8	8392.2	8401.0	8405.4	8405.4	8401.0	8396.6	8409.8	8392.2
10°	8423.0	8436.2	8462.5	8475.7	8497.7	8497.7	8506.5	8506.5	8497.7	8506.5	8502.1
12.5°	8405.4	8484.5	8528.4	8559.2	8589.9	8616.3	8625.1	8629.5	8625.1	8642.7	8625.1
15°	8436.2	8502.1	8572.4	8625.1	8682.2	8712.9	8721.7	8756.9	8765.7	8770.1	8743.8
17.5°	8387.8	8506.5	8581.1	8660.2	8743.8	8800.9	8853.5	8875.6	8880.0	8888.7	8853.5
20°	8277.9	8409.8	8524.0	8638.3	8735.0	8822.8	8866.8	8928.3	8910.7	8945.9	8897.5
22.5°	8128.6	8277.9	8423.0	8572.4	8673.5	8778.9	8871.2	8915.0	8937.1	8937.1	8884.3
25°	7891.3	8067.1	8225.2	8379.0	8532.8	8660.2	8765.7	8831.6	8844.8	8840.4	8778.9
27.5°	7522.2	7711.1	7895.7	8071.5	8260.4	8409.8	8532.8	8611.9	8633.9	8633.9	8568.0
30°	7012.5	7214.7	7394.8	7605.7	7799.1	7966.0	8137.4	8207.7	8247.2	8247.2	8172.6
32.5°	6406.2	6577.6	6744.5	6951.0	7162.0	7350.9	7513.4	7610.1	7658.5	7654.0	7588.1
35°	5747.1	5830.6	5958.1	6111.8	6300.7	6476.5	6634.6	6727.0	6810.4	6806.0	6744.5
37.5°	5088.0	5066.1	5079.3	5136.4	5255.0	5378.1	5501.1	5589.0	5659.2	5690.1	5676.8
40°	4442.2	4327.9	4218.0	4178.6	4187.3	4231.3	4297.2	4363.1	4442.2	4481.8	4499.3
42.5°	3862.2	3668.9	3475.5	3330.5	3247.0	3220.7	3251.4	3273.4	3321.7	3378.8	3436.0
45°	3396.4	3137.2	2882.3	2658.3	2517.7	2434.1	2416.6	2434.1	2460.6	2517.7	2592.4
47.5°	3014.1	2711.0	2425.4	2174.9	1968.4	1858.6	1827.9	1819.1	1845.4	1898.1	1999.1
50°	2675.8	2372.6	2056.3	1766.3	1551.0	1427.9	1384.1	1366.5	1397.2	1436.8	1529.0
52.5°	2306.7	2008.0	1682.8	1401.6	1177.6	1050.2	1001.8	975.4	993.0	1045.7	1138.0
55°	1906.9	1630.1	1335.7	1045.7	830.4	711.8	654.6	637.1	654.6	711.8	804.1
57.5°	1507.1	1274.2	1028.1	755.7	562.4	443.8	386.6	369.1	417.5	439.4	536.0
60°	1177.6	988.7	777.7	553.7	386.6	294.4	237.3	224.1	246.1	285.5	364.7
62.5°	883.2	764.5	597.5	395.4	285.5	188.9	158.1	145.0	158.1	188.9	250.5
65°	641.5	549.3	417.5	290.0	193.3	140.6	105.5	96.7	109.9	131.8	184.6
67.5°	439.4	369.1	290.0	202.1	131.8	87.8	74.7	74.7	79.1	96.7	136.2
70°	285.5	241.7	184.6	131.8	87.8	65.9	57.1	48.4	57.1	70.3	92.2
72.5°	180.2	153.7	118.6	92.2	65.9	48.4	39.6	35.2	44.0	52.7	70.3
75°	109.9	83.5	61.5	48.4	35.2	35.2	35.2	17.5	21.9	35.2	44.0
77.5°	65.9	57.1	48.4	39.6	30.7	17.5	17.5	17.5	21.9	26.3	39.6
80°	35.2	30.7	21.9	21.9	17.5	13.2	17.5	13.2	8.8	21.9	26.3
82.5°	21.9	17.5	17.5	17.5	21.9	8.8	13.2	8.8	13.2	17.5	13.2
85°	13.2	13.2	13.2	8.8	21.9	8.8	8.8	4.4	4.4	8.8	8.8
87.5°	0.0	4.4	4.4	0.0	4.4	0.0	4.4	4.4	4.4	4.4	4.4
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°	8277.9	8277.9	8277.9	8277.9	8277.9	8277.9	8277.9	8277.9	8277.9	8277.9	8277.9
2.5°	8291.2	8286.7	8291.2	8286.7	8286.7	8286.7	8291.2	8291.2	8286.7	8286.7	8295.6
5°	8326.3	8326.3	8326.3	8321.9	8317.5	8317.5	8326.3	8326.3	8313.1	8326.3	8326.3
7.5°	8401.0	8387.8	8401.0	8383.4	8374.7	8379.0	8383.4	8374.7	8365.9	8370.3	8370.3
10°	8497.7	8484.5	8484.5	8471.3	8458.1	8449.3	8440.6	8418.6	8396.6	8392.2	8374.7
12.5°	8611.9	8589.9	8576.8	8550.4	8528.4	8497.7	8471.3	8436.2	8392.2	8361.5	8330.7
15°	8726.1	8691.0	8660.2	8616.3	8568.0	8515.2	8458.1	8401.0	8330.7	8269.2	8216.4
17.5°	8818.4	8770.1	8712.9	8642.7	8572.4	8493.3	8409.8	8326.3	8225.2	8146.1	8084.6
20°	8849.1	8778.9	8704.2	8611.9	8519.6	8409.8	8304.4	8194.5	8080.2	7996.8	7926.5
22.5°	8809.7	8726.1	8633.9	8537.2	8414.1	8295.6	8172.6	8045.1	7944.0	7829.8	7763.9
25°	8699.8	8598.7	8497.7	8383.4	8264.8	8133.0	8001.2	7869.4	7746.3	7684.8	7601.4
27.5°	8475.7	8365.9	8256.0	8137.4	8001.2	7869.4	7733.2	7605.7	7500.3	7416.8	7368.5
30°	8080.2	7952.8	7825.4	7698.0	7579.3	7443.1	7315.7	7210.2	7104.8	7038.9	6990.6
32.5°	7473.9	7359.7	7232.3	7109.2	6999.4	6885.1	6779.7	6687.4	6612.7	6568.7	6533.6
35°	6656.7	6542.4	6445.7	6357.9	6265.6	6217.3	6151.4	6098.6	6067.9	6050.3	6045.9
37.5°	5628.5	5562.6	5531.8	5514.3	5496.7	5483.5	5492.2	5514.3	5531.8	5562.6	5597.7
40°	4530.0	4587.1	4604.7	4666.2	4723.3	4798.1	4881.6	4978.2	5057.3	5158.3	5228.6
42.5°	3528.3	3633.7	3756.7	3888.5	4029.1	4165.4	4332.3	4486.1	4626.7	4754.1	4864.0
45°	2711.0	2873.5	3058.1	3247.0	3436.0	3633.7	3835.8	4024.7	4191.7	4327.9	4442.2
47.5°	2113.4	2293.6	2530.9	2763.8	2992.2	3225.1	3449.1	3646.8	3787.5	3919.3	4020.3
50°	1674.0	1880.6	2139.8	2407.8	2658.3	2904.3	3141.5	3326.1	3466.8	3572.2	3646.8
52.5°	1296.1	1542.2	1805.8	2087.1	2355.1	2623.1	2842.8	3014.1	3128.4	3220.7	3277.8
55°	966.6	1208.3	1489.5	1779.5	2051.9	2311.1	2517.7	2667.1	2768.2	2820.8	2851.6
57.5°	698.6	918.3	1199.5	1489.5	1735.5	1981.6	2148.6	2284.8	2341.9	2372.6	2385.9
60°	509.7	711.8	962.2	1212.7	1445.6	1643.3	1788.3	1880.6	1924.5	1942.1	1937.6
62.5°	373.5	549.3	764.5	975.4	1164.3	1326.9	1441.2	1502.7	1524.7	1533.4	1520.3
65°	285.5	421.8	606.4	768.9	913.9	1032.5	1116.1	1155.6	1168.7	1164.3	1155.6
67.5°	210.9	316.4	452.6	575.6	681.1	773.3	817.3	852.4	861.2	848.0	834.8
70°	149.4	232.9	329.5	413.1	492.1	544.9	593.1	597.5	597.5	593.1	584.4
72.5°	105.5	162.6	224.1	281.2	329.5	369.1	386.6	399.8	395.4	391.0	382.3
75°	70.3	101.1	162.6	175.8	219.6	232.9	250.5	250.5	254.8	241.7	241.7
77.5°	44.0	70.3	96.7	114.3	131.8	149.4	158.1	158.1	162.6	158.1	158.1
80°	26.3	44.0	52.7	79.1	79.1	92.2	96.7	101.1	92.2	105.5	92.2
82.5°	17.5	26.3	39.6	39.6	48.4	57.1	57.1	61.5	61.5	57.1	57.1
85°	13.2	17.5	21.9	26.3	26.3	30.7	26.3	26.3	30.7	35.2	30.7
87.5°	4.4	8.8	4.4	8.8	8.8	17.5	13.2	13.2	13.2	17.5	17.5
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: P248449

CATALOG NUMBER: LSR8B150D010 EC8B150830 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	8277.9	8277.9	8277.9	8277.9
2.5°	8286.7	8291.2	8286.7	8286.7
5°	8326.3	8321.9	8326.3	8317.5
7.5°	8357.1	8357.1	8352.6	8352.6
10°	8357.1	8339.5	8339.5	8339.5
12.5°	8291.2	8269.2	8256.0	8247.2
15°	8176.9	8137.4	8119.8	8115.4
17.5°	8027.5	7992.4	7970.4	7957.2
20°	7856.2	7821.0	7794.7	7799.1
22.5°	7706.7	7667.3	7649.6	7640.8
25°	7557.4	7509.0	7495.9	7487.1
27.5°	7315.7	7289.4	7276.2	7263.0
30°	6946.6	6933.4	6911.5	6942.2
32.5°	6520.5	6498.4	6480.9	6494.1
35°	6050.3	6037.1	6050.3	6041.5
37.5°	5619.7	5632.9	5650.5	5659.2
40°	5281.4	5329.7	5347.3	5356.0
42.5°	4943.1	5000.2	5035.3	5057.3
45°	4525.6	4582.7	4622.3	4648.7
47.5°	4095.0	4143.4	4182.9	4178.6
50°	3704.0	3730.4	3747.9	3765.5
52.5°	3308.5	3308.5	3312.9	3312.9
55°	2860.4	2851.6	2847.2	2851.6
57.5°	2368.2	2359.5	2355.1	2341.9
60°	1920.1	1893.8	1876.2	1876.2
62.5°	1502.7	1471.9	1458.8	1454.4
65°	1129.2	1124.8	1098.4	1094.0
67.5°	817.3	799.7	782.1	786.5
70°	575.6	549.3	549.3	540.5
72.5°	373.5	360.3	355.9	355.9
75°	232.9	232.9	224.1	241.7
77.5°	153.7	153.7	149.4	153.7
80°	92.2	92.2	92.2	87.8
82.5°	57.1	61.5	57.1	57.1
85°	30.7	35.2	26.3	39.6
87.5°	17.5	21.9	17.5	21.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)