

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: P249774

Luminaire Tested: **LSR8B150D010 EC8B150927 8LBSW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249774
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 EC8B150927 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13456.1 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

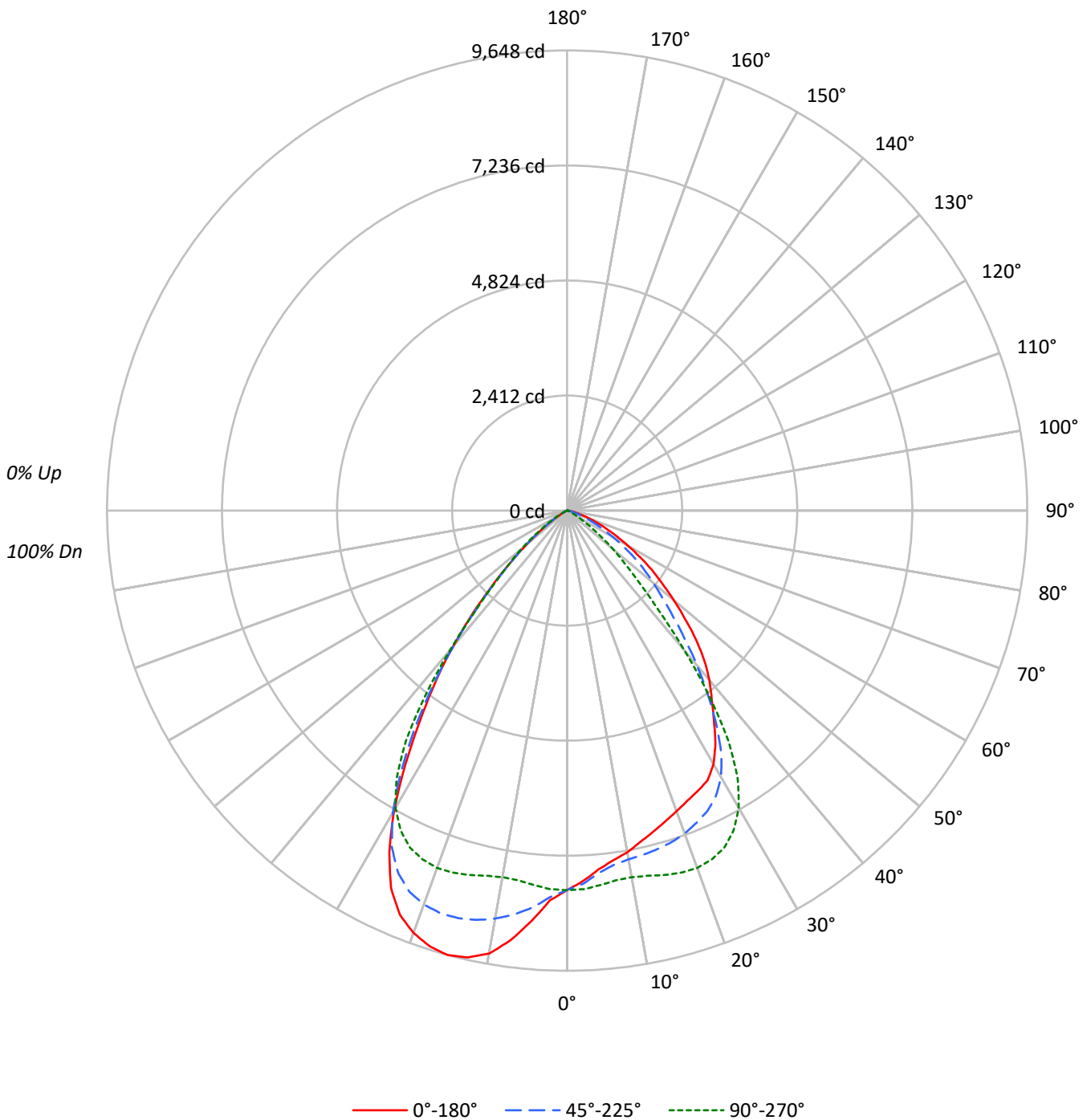
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100	100			
1	112	109	106	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91	91	91	91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82	82	82	82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73	73	73	73			
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66	66	66	66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60	60	60	60			
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54	54	54	54			
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49	49	49	49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45	45	45	45			
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42	42	42	42			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38	38	38	38			

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°	764.9	5.7
10°-20°	2289.3	17.0
20°-30°	3505.8	26.1
30°-40°	3436.8	25.5
40°-50°	2069.7	15.4
50°-60°	952.6	7.1
60°-70°	334.6	2.5
70°-80°	87.5	0.7
80°-90°	14.9	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°	6559.9	48.8
0°-40°	9996.8	74.3
0°-60°	13019.1	96.8
0°-90°	13456.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13456.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7957	7957	7957	7957	7957	
5°	7551	7622	7882	8355	8641	713
15°	6971	7347	7908	8845	9648	1970
25°	6484	6953	7797	8384	8734	2987
35°	5365	5440	5889	5551	5373	3360
45°	3811	3138	2127	2142	2197	2922
55°	2164	1714	610	480	461	1931
65°	918	636	97	48	52	936
75°	238	138	8	0	0	288
85°	37	19	4	0	0	51
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°	7956.7	7956.7	7956.7	7956.7	7956.7	7956.7	7956.7	7956.7	7956.7	7956.7	7956.7
2.5°	7770.7	7778.1	7778.1	7778.1	7793.0	7796.8	7793.0	7796.8	7804.2	7830.2	7841.4
5°	7551.3	7540.2	7547.7	7543.9	7562.6	7573.7	7566.2	7577.4	7603.4	7622.1	7640.7
7.5°	7395.3	7395.3	7395.3	7402.6	7413.9	7436.1	7432.4	7439.8	7465.8	7491.8	7517.9
10°	7272.6	7268.8	7268.8	7287.4	7302.3	7328.2	7335.8	7358.1	7391.5	7425.0	7454.7
12.5°	7112.6	7116.4	7135.0	7153.6	7187.0	7227.9	7250.2	7280.1	7332.1	7387.8	7421.3
15°	6971.4	6975.0	6990.1	7027.1	7068.0	7116.4	7164.7	7213.0	7276.3	7346.9	7406.4
17.5°	6833.8	6837.4	6848.7	6889.6	6941.7	7004.9	7060.6	7123.8	7205.6	7287.4	7361.8
20°	6707.4	6703.8	6722.2	6759.4	6826.5	6885.8	6941.7	7016.1	7105.3	7205.6	7291.1
22.5°	6584.6	6584.6	6603.3	6640.5	6700.0	6759.4	6819.0	6897.0	6986.2	7082.9	7183.4
25°	6484.3	6480.6	6506.6	6525.2	6569.8	6629.3	6692.5	6755.7	6845.0	6952.8	7049.5
27.5°	6376.5	6372.8	6376.5	6398.9	6439.7	6484.3	6532.7	6588.4	6662.8	6752.0	6845.0
30°	6138.6	6142.2	6142.2	6160.8	6183.2	6231.4	6257.5	6313.3	6380.2	6454.6	6536.5
32.5°	5785.3	5789.0	5789.0	5796.4	5815.0	5837.4	5859.7	5900.5	5952.6	6015.8	6090.2
35°	5365.2	5365.2	5361.4	5365.2	5376.4	5376.4	5394.9	5376.4	5402.5	5439.6	5495.3
37.5°	4978.5	4971.0	4963.6	4956.2	4944.9	4926.5	4900.5	4855.7	4844.6	4829.7	4833.4
40°	4636.5	4632.8	4610.5	4591.8	4554.6	4510.0	4446.9	4368.8	4305.6	4231.2	4168.0
42.5°	4257.2	4253.4	4234.8	4201.4	4160.5	4093.6	3993.2	3889.1	3762.8	3651.2	3536.0
45°	3810.9	3822.2	3796.1	3759.0	3710.6	3647.4	3536.0	3409.4	3283.0	3138.1	2993.0
47.5°	3346.2	3342.5	3324.0	3301.6	3260.8	3197.6	3123.2	2985.6	2851.8	2718.0	2569.2
50°	2914.9	2900.1	2892.6	2870.4	2844.3	2792.4	2714.2	2602.6	2483.7	2357.2	2219.6
52.5°	2506.0	2506.0	2487.4	2472.5	2450.1	2409.3	2342.4	2253.2	2152.8	2033.8	1888.8
55°	2163.9	2156.5	2138.0	2119.3	2096.9	2070.9	2011.5	1937.1	1829.2	1714.0	1587.6
57.5°	1799.6	1795.7	1788.4	1766.0	1754.9	1728.9	1662.0	1587.6	1494.7	1394.3	1290.1
60°	1472.4	1457.6	1442.6	1427.7	1409.2	1383.2	1338.5	1275.3	1197.2	1108.0	1004.0
62.5°	1178.7	1200.9	1156.4	1156.4	1119.1	1096.9	1055.9	1018.8	936.9	855.2	766.0
65°	918.3	918.3	899.7	884.9	862.5	836.6	795.6	758.5	699.0	635.7	572.5
67.5°	702.8	699.0	680.4	665.6	646.9	632.0	602.3	557.7	513.1	461.1	408.9
70°	516.8	513.1	509.3	483.3	468.4	449.9	427.6	397.9	364.4	327.2	278.9
72.5°	371.7	371.7	360.7	349.5	334.7	319.7	297.6	278.9	249.2	223.1	189.6
75°	237.9	234.3	234.3	215.7	215.7	193.3	178.4	167.3	152.4	137.6	107.9
77.5°	171.1	167.3	163.6	156.2	148.7	141.3	130.0	115.2	104.1	89.2	78.1
80°	115.2	107.9	104.1	104.1	92.9	89.2	92.9	70.6	66.8	55.7	48.4
82.5°	70.6	70.6	66.8	66.8	63.2	59.5	48.4	48.4	44.7	40.8	33.5
85°	37.2	48.4	33.5	37.2	33.5	37.2	33.5	26.0	22.4	18.6	18.6
87.5°	22.4	14.8	14.8	22.4	18.6	14.8	14.8	14.8	11.1	7.5	7.5
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°	7956.7	7956.7	7956.7	7956.7	7956.7	7956.7	7956.7	7956.7	7956.7	7956.7	7956.7
2.5°	7834.0	7860.0	7856.2	7889.7	7900.9	7927.0	7927.0	7945.4	7956.7	7982.7	8005.0
5°	7648.1	7688.9	7700.2	7741.0	7774.5	7815.4	7841.4	7882.3	7919.4	7975.4	8027.3
7.5°	7532.9	7566.2	7588.6	7637.0	7674.1	7718.6	7763.4	7819.1	7871.1	7938.1	8012.5
10°	7477.0	7521.8	7555.0	7603.4	7648.1	7696.5	7741.0	7804.2	7863.8	7949.2	8031.0
12.5°	7462.1	7514.2	7555.0	7622.1	7666.6	7718.6	7770.7	7841.4	7904.6	7993.8	8086.8
15°	7462.1	7532.9	7588.6	7662.9	7715.0	7781.8	7837.8	7908.3	7979.0	8071.9	8161.1
17.5°	7447.3	7532.9	7603.4	7688.9	7755.9	7822.9	7893.4	7960.5	8034.6	8124.1	8224.3
20°	7387.8	7495.6	7581.0	7681.5	7752.2	7826.5	7897.3	7971.5	8049.7	8142.5	8228.1
22.5°	7283.7	7410.2	7506.9	7614.6	7696.5	7770.7	7841.4	7915.7	8001.3	8090.6	8179.8
25°	7146.1	7265.0	7369.3	7480.7	7562.6	7644.3	7711.3	7796.8	7874.9	7960.5	8031.0
27.5°	6937.9	7064.2	7164.7	7280.1	7354.2	7432.4	7488.2	7558.9	7633.2	7703.8	7759.7
30°	6625.7	6740.9	6845.0	6949.0	7023.4	7079.3	7138.7	7194.5	7242.9	7291.1	7339.4
32.5°	6168.3	6272.4	6372.8	6469.4	6528.9	6577.3	6621.9	6655.4	6681.4	6707.4	6711.1
35°	5540.0	5625.4	5688.6	5774.2	5830.0	5874.5	5874.5	5889.4	5885.7	5874.5	5863.4
37.5°	4837.3	4870.6	4896.7	4930.1	4933.8	4933.8	4911.6	4893.0	4863.3	4855.7	4833.4
40°	4104.8	4060.1	4026.6	3982.0	3956.1	3900.2	3852.0	3818.5	3770.1	3762.8	3755.2
42.5°	3409.4	3305.4	3212.4	3134.4	3045.2	2967.0	2896.4	2844.3	2807.2	2803.4	2807.2
45°	2844.3	2725.3	2587.7	2480.0	2379.6	2282.8	2190.0	2126.8	2093.3	2085.8	2093.3
47.5°	2416.8	2279.2	2145.3	2022.5	1914.9	1807.0	1714.0	1628.4	1587.6	1576.5	1572.8
50°	2078.4	1937.1	1795.7	1669.4	1550.5	1442.6	1327.3	1245.6	1193.5	1174.8	1160.0
52.5°	1747.6	1621.1	1476.1	1346.0	1226.9	1100.5	981.6	888.5	836.6	814.3	799.3
55°	1457.6	1331.1	1197.2	1070.8	944.4	818.0	699.0	609.8	553.9	528.0	509.3
57.5°	1163.7	1044.8	929.6	803.1	699.0	576.3	457.3	379.2	330.9	301.2	286.3
60°	899.7	806.8	706.4	602.3	502.0	401.6	304.9	230.5	193.3	171.1	152.4
62.5°	680.4	602.3	535.3	446.1	368.1	282.5	208.2	148.7	115.2	96.8	89.2
65°	490.8	431.2	371.7	316.0	260.3	197.1	141.3	96.8	66.8	55.7	52.1
67.5°	349.5	301.2	256.5	219.3	178.4	141.3	100.4	66.8	52.1	44.7	40.8
70°	245.4	208.2	178.4	145.1	118.9	92.9	78.1	48.4	29.7	33.5	26.0
72.5°	163.6	137.6	122.7	100.4	81.7	66.8	48.4	33.5	33.5	26.0	22.4
75°	89.2	81.7	63.2	48.4	40.8	37.2	14.8	7.5	3.7	11.1	3.7
77.5°	63.2	55.7	48.4	40.8	33.5	26.0	14.8	14.8	11.1	14.8	7.5
80°	40.8	33.5	29.7	29.7	18.6	11.1	7.5	7.5	11.1	3.7	3.7
82.5°	26.0	22.4	18.6	18.6	18.6	11.1	11.1	11.1	11.1	7.5	7.5
85°	14.8	11.1	7.5	7.5	3.7	7.5	0.0	3.7	3.7	0.0	0.0
87.5°	7.5	3.7	3.7	3.7	3.7	0.0	0.0	3.7	0.0	3.7	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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	7956.7	7956.7	7956.7	7956.7	7956.7	7956.7	7956.7	7956.7	7956.7	7956.7	7956.7
2.5°	8019.8	8034.6	8053.3	8068.2	8101.7	8109.1	8124.1	8138.9	8150.1	8161.1	8164.9
5°	8071.9	8127.8	8179.8	8235.4	8306.2	8354.6	8410.3	8458.6	8506.9	8547.9	8577.6
7.5°	8086.8	8172.2	8250.5	8347.1	8451.1	8540.4	8633.4	8726.3	8823.0	8897.4	8960.6
10°	8116.5	8220.6	8321.1	8436.3	8570.1	8689.1	8804.4	8927.1	9049.8	9153.9	9246.9
12.5°	8168.6	8283.8	8391.7	8518.2	8655.8	8789.5	8915.8	9053.4	9183.7	9298.9	9403.0
15°	8254.1	8361.9	8466.1	8585.0	8722.6	8845.3	8971.8	9105.5	9235.7	9354.6	9451.4
17.5°	8309.8	8410.3	8514.3	8622.2	8737.4	8849.0	8967.9	9087.0	9205.9	9313.8	9403.0
20°	8309.8	8406.6	8484.6	8581.4	8689.1	8785.8	8882.6	8986.6	9090.7	9179.9	9265.4
22.5°	8243.0	8335.9	8395.4	8469.8	8562.7	8644.5	8696.6	8811.8	8889.9	8967.9	9031.2
25°	8086.8	8153.8	8202.2	8254.1	8328.5	8384.2	8428.9	8495.8	8573.8	8603.7	8648.2
27.5°	7804.2	7852.6	7878.6	7889.7	7927.0	7956.7	7964.1	7993.8	8027.3	8034.6	8053.3
30°	7358.1	7361.8	7350.6	7346.9	7328.2	7306.1	7302.3	7298.6	7283.7	7268.8	7272.6
32.5°	6685.1	6666.5	6621.9	6573.6	6525.2	6473.2	6443.4	6406.2	6383.8	6361.7	6335.7
35°	5815.0	5770.5	5707.2	5647.7	5592.0	5551.0	5484.2	5461.8	5439.6	5409.8	5402.5
37.5°	4792.6	4766.5	4707.0	4662.4	4632.8	4614.1	4580.6	4558.4	4558.4	4547.2	4539.7
40°	3736.6	3729.3	3706.9	3718.1	3703.3	3710.6	3706.9	3699.4	3718.1	3718.1	3725.6
42.5°	2803.4	2807.2	2818.4	2825.7	2848.0	2851.8	2870.4	2870.4	2881.6	2892.6	2900.1
45°	2085.8	2100.7	2100.7	2115.6	2138.0	2141.7	2149.0	2152.8	2160.1	2178.8	2186.2
47.5°	1565.3	1568.9	1568.9	1572.8	1580.2	1587.6	1584.0	1587.6	1598.9	1591.3	1598.9
50°	1156.4	1160.0	1148.9	1137.7	1148.9	1148.9	1145.1	1134.0	1145.1	1130.4	1137.7
52.5°	788.3	784.5	773.3	777.2	769.6	766.0	766.0	758.5	758.5	758.5	743.6
55°	498.3	498.3	490.8	490.8	487.1	479.6	476.0	472.2	468.4	464.7	464.7
57.5°	278.9	282.5	271.5	267.6	271.5	267.6	260.3	260.3	260.3	249.2	256.5
60°	152.4	148.7	145.1	141.3	137.6	141.3	141.3	133.9	133.9	133.9	137.6
62.5°	81.7	81.7	78.1	78.1	74.4	74.4	81.7	70.6	74.4	70.6	74.4
65°	44.7	55.7	40.8	40.8	52.1	48.4	44.7	44.7	48.4	40.8	44.7
67.5°	48.4	33.5	29.7	33.5	29.7	29.7	29.7	37.2	33.5	26.0	33.5
70°	22.4	26.0	26.0	18.6	29.7	14.8	26.0	14.8	22.4	18.6	22.4
72.5°	22.4	22.4	22.4	14.8	22.4	14.8	18.6	18.6	14.8	14.8	22.4
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°	7.5	7.5	3.7	3.7	3.7	3.7	7.5	7.5	7.5	0.0	3.7
80°	7.5	7.5	0.0	3.7	0.0	0.0	3.7	0.0	3.7	0.0	7.5
82.5°	3.7	7.5	3.7	3.7	7.5	7.5	7.5	3.7	3.7	3.7	3.7
85°	0.0	3.7	0.0	0.0	0.0	0.0	7.5	0.0	0.0	0.0	3.7
87.5°	0.0	3.7	0.0	0.0	0.0	0.0	3.7	3.7	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: P249774

CATALOG NUMBER: LSR8B150D010 EC8B150927 8LBSW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	7956.7	7956.7	7956.7	7956.7
2.5°	8168.6	8172.2	8179.8	8176.0
5°	8599.8	8629.6	8644.5	8640.9
7.5°	9005.1	9057.3	9087.0	9087.0
10°	9317.5	9377.0	9421.5	9429.1
12.5°	9484.8	9551.8	9611.3	9596.2
15°	9533.1	9600.1	9659.5	9648.3
17.5°	9477.3	9544.3	9588.9	9581.4
20°	9324.9	9380.7	9425.4	9421.5
22.5°	9087.0	9135.3	9172.6	9168.8
25°	8685.4	8719.0	8748.6	8733.7
27.5°	8068.2	8079.4	8097.9	8075.7
30°	7246.6	7253.9	7261.4	7257.7
32.5°	6324.5	6320.7	6313.3	6305.8
35°	5391.2	5391.2	5394.9	5372.6
37.5°	4543.4	4539.7	4551.0	4539.7
40°	3733.0	3729.3	3744.1	3725.6
42.5°	2911.3	2922.4	2926.1	2926.1
45°	2190.0	2193.6	2197.4	2197.4
47.5°	1598.9	1602.4	1621.1	1598.9
50°	1130.4	1134.0	1137.7	1130.4
52.5°	747.3	751.2	747.3	736.1
55°	457.3	461.1	461.1	461.1
57.5°	245.4	249.2	249.2	245.4
60°	133.9	130.0	133.9	126.4
62.5°	70.6	78.1	74.4	66.8
65°	44.7	44.7	44.7	52.1
67.5°	37.2	29.7	33.5	26.0
70°	22.4	26.0	26.0	18.6
72.5°	18.6	18.6	18.6	22.4
75°	0.0	0.0	0.0	0.0
77.5°	7.5	7.5	7.5	3.7
80°	3.7	0.0	3.7	0.0
82.5°	3.7	3.7	7.5	3.7
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)