

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: P248422

Luminaire Tested: **LSR8B150D010 EC8B1509727 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248422
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 EC8B1509727 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE 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: 11881.0 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

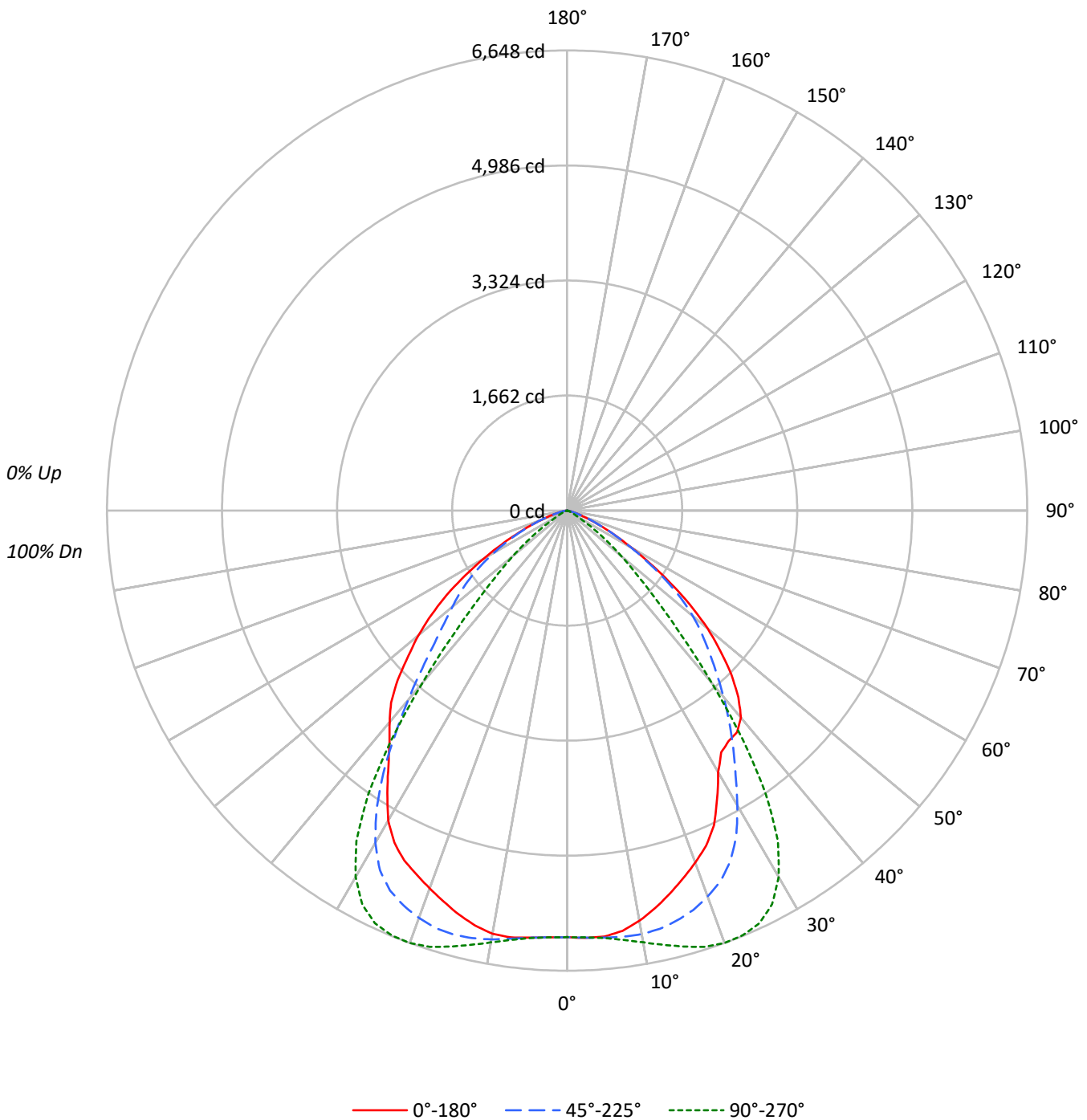
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	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°	592.7	5.0
10°-20°	1755.9	14.8
20°-30°	2678.8	22.5
30°-40°	2795.4	23.5
40°-50°	2099.7	17.7
50°-60°	1291.9	10.9
60°-70°	525.7	4.4
70°-80°	123.9	1.0
80°-90°	17.0	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°	5027.4	42.3
0°-40°	7822.8	65.8
0°-60°	11214.3	94.4
0°-90°	11881.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11881.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6163	6163	6163	6163	6163	
5°	6177	6193	6200	6193	6193	584
15°	5728	6131	6520	6340	6042	1614
25°	5018	5581	6576	6056	5575	2282
35°	4066	4181	5009	4629	4498	2568
45°	3357	2905	1812	2706	3461	2561
55°	1812	1721	474	1721	2123	1629
65°	566	572	72	769	815	590
75°	98	98	13	173	180	118
85°	10	10	3	23	30	14
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°	6163.4	6163.4	6163.4	6163.4	6163.4	6163.4	6163.4	6163.4	6163.4	6163.4	6163.4
2.5°	6179.9	6170.0	6179.9	6179.9	6183.1	6176.6	6179.9	6183.1	6176.6	6176.6	6176.6
5°	6176.6	6170.0	6176.6	6173.3	6179.9	6179.9	6186.4	6186.4	6192.9	6192.9	6202.7
7.5°	6124.2	6111.2	6124.2	6134.1	6140.6	6153.7	6170.0	6183.1	6196.2	6209.3	6225.6
10°	6016.2	6016.2	6026.1	6045.7	6065.3	6088.2	6117.7	6150.4	6183.1	6212.5	6242.0
12.5°	5882.2	5872.3	5891.9	5918.1	5947.6	5983.6	6029.4	6078.4	6130.8	6189.6	6235.5
15°	5728.4	5718.5	5741.4	5767.6	5803.6	5856.0	5911.6	5977.0	6052.3	6130.8	6206.0
17.5°	5571.3	5568.0	5590.9	5627.0	5656.4	5712.0	5784.0	5862.5	5947.6	6052.3	6150.4
20°	5411.1	5407.8	5430.7	5460.1	5499.4	5551.7	5623.7	5715.3	5816.7	5934.5	6049.0
22.5°	5244.2	5247.5	5267.1	5299.8	5332.5	5388.1	5463.3	5555.0	5666.2	5793.8	5921.4
25°	5018.4	5002.1	5028.3	5061.0	5116.6	5162.4	5234.4	5332.5	5447.0	5581.2	5731.7
27.5°	4691.3	4688.0	4711.0	4740.4	4789.4	4845.1	4923.6	5025.0	5146.0	5293.2	5440.5
30°	4364.1	4370.7	4380.5	4410.0	4442.7	4498.3	4576.8	4661.9	4776.4	4917.0	5074.1
32.5°	4141.7	4141.7	4154.8	4174.4	4197.3	4226.8	4282.4	4344.5	4432.9	4531.0	4645.5
35°	4066.4	4053.4	4066.4	4069.7	4073.0	4079.6	4089.3	4109.0	4138.4	4181.0	4223.5
37.5°	4033.8	4023.9	4023.9	4010.9	3994.5	3974.9	3948.7	3919.2	3886.6	3844.0	3811.3
40°	3906.2	3899.6	3893.0	3880.0	3844.0	3804.8	3762.2	3693.5	3618.2	3513.5	3408.9
42.5°	3660.8	3654.3	3651.0	3624.8	3592.1	3546.3	3497.2	3425.2	3330.4	3196.2	3045.7
45°	3356.6	3343.4	3333.7	3310.8	3287.8	3248.6	3202.8	3137.3	3042.5	2905.1	2725.1
47.5°	3003.2	2996.7	2993.4	2983.6	2960.7	2937.8	2908.4	2856.0	2770.9	2640.1	2453.6
50°	2646.6	2633.6	2640.1	2636.9	2627.0	2610.7	2591.0	2555.0	2489.6	2371.8	2201.7
52.5°	2237.7	2237.7	2234.5	2244.2	2247.5	2244.2	2247.5	2208.3	2152.6	2064.3	1920.3
55°	1812.4	1812.4	1822.2	1835.3	1848.4	1851.7	1848.4	1832.1	1792.8	1720.8	1593.2
57.5°	1413.2	1406.8	1426.4	1446.0	1459.1	1472.2	1462.3	1449.3	1426.4	1367.5	1269.3
60°	1076.3	1076.3	1089.4	1102.5	1115.5	1128.7	1125.4	1122.1	1102.5	1063.2	984.7
62.5°	791.7	795.0	795.0	804.8	817.8	831.0	840.7	831.0	821.1	795.0	742.6
65°	565.9	562.7	565.9	575.8	585.6	598.7	605.2	602.0	592.1	572.5	533.3
67.5°	379.5	376.2	389.3	392.6	399.1	412.2	409.0	412.2	409.0	392.6	359.9
70°	248.6	242.1	248.6	245.3	255.2	258.5	265.0	268.2	265.0	255.2	245.3
72.5°	153.8	150.5	153.8	157.1	160.3	163.5	170.1	170.1	166.8	160.3	147.2
75°	98.1	88.3	91.6	85.1	91.6	91.6	98.1	101.4	98.1	98.1	91.6
77.5°	58.9	58.9	58.9	58.9	58.9	58.9	58.9	62.2	65.4	58.9	55.6
80°	29.5	29.5	32.7	32.7	32.7	36.0	32.7	32.7	32.7	36.0	26.2
82.5°	22.9	19.6	19.6	19.6	22.9	19.6	19.6	19.6	19.6	19.6	19.6
85°	9.8	13.0	9.8	6.6	9.8	9.8	13.0	9.8	9.8	9.8	13.0
87.5°	3.3	3.3	0.0	0.0	0.0	3.3	0.0	3.3	3.3	6.6	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°	6163.4	6163.4	6163.4	6163.4	6163.4	6163.4	6163.4	6163.4	6163.4	6163.4	6163.4
2.5°	6179.9	6173.3	6173.3	6170.0	6176.6	6170.0	6173.3	6170.0	6170.0	6176.6	6170.0
5°	6202.7	6206.0	6199.5	6196.2	6206.0	6206.0	6206.0	6199.5	6199.5	6202.7	6199.5
7.5°	6235.5	6242.0	6245.3	6248.5	6255.1	6258.4	6258.4	6255.1	6251.8	6261.7	6248.5
10°	6271.4	6281.3	6300.9	6310.7	6327.1	6327.1	6333.6	6333.6	6327.1	6333.6	6330.3
12.5°	6258.4	6317.2	6350.0	6372.8	6395.7	6415.4	6421.9	6425.2	6421.9	6435.0	6421.9
15°	6281.3	6330.3	6382.7	6421.9	6464.4	6487.3	6493.9	6520.1	6526.6	6529.9	6510.3
17.5°	6245.3	6333.6	6389.2	6448.1	6510.3	6552.8	6592.0	6608.4	6611.7	6618.2	6592.0
20°	6163.4	6261.7	6346.7	6431.8	6503.7	6569.1	6601.9	6647.7	6634.6	6660.8	6624.8
22.5°	6052.3	6163.4	6271.4	6382.7	6457.9	6536.5	6605.1	6637.8	6654.2	6654.2	6614.9
25°	5875.6	6006.5	6124.2	6238.7	6353.2	6448.1	6526.6	6575.7	6585.5	6582.3	6536.5
27.5°	5600.8	5741.4	5878.9	6009.7	6150.4	6261.7	6353.2	6412.1	6428.5	6428.5	6379.4
30°	5221.3	5371.8	5505.9	5662.9	5806.9	5931.2	6058.8	6111.2	6140.6	6140.6	6085.0
32.5°	4769.8	4897.4	5021.7	5175.5	5332.5	5473.2	5594.2	5666.2	5702.2	5698.9	5649.9
35°	4279.1	4341.2	4436.2	4550.6	4691.3	4822.2	4939.9	5008.7	5070.8	5067.5	5021.7
37.5°	3788.3	3772.0	3781.9	3824.4	3912.7	4004.3	4095.9	4161.4	4213.6	4236.6	4226.8
40°	3307.5	3222.4	3140.6	3111.2	3117.7	3150.4	3199.5	3248.6	3307.5	3337.0	3350.0
42.5°	2875.6	2731.7	2587.7	2479.8	2417.6	2398.0	2420.9	2437.2	2473.2	2515.7	2558.3
45°	2528.9	2335.9	2146.1	1979.3	1874.6	1812.4	1799.3	1812.4	1832.1	1874.6	1930.2
47.5°	2244.2	2018.5	1805.9	1619.4	1465.6	1383.9	1361.0	1354.4	1374.0	1413.2	1488.5
50°	1992.3	1766.6	1531.1	1315.1	1154.8	1063.2	1030.5	1017.4	1040.3	1069.8	1138.4
52.5°	1717.5	1495.1	1253.0	1043.6	876.8	781.9	745.9	726.3	739.3	778.6	847.3
55°	1419.8	1213.7	994.5	778.6	618.3	530.0	487.4	474.4	487.4	530.0	598.7
57.5°	1122.1	948.7	765.5	562.7	418.7	330.4	287.9	274.8	310.8	327.2	399.1
60°	876.8	736.1	579.1	412.2	287.9	219.2	176.7	166.8	183.2	212.6	271.5
62.5°	657.6	569.2	444.9	294.4	212.6	140.6	117.8	108.0	117.8	140.6	186.5
65°	477.6	409.0	310.8	215.9	143.9	104.7	78.5	72.0	81.8	98.1	137.4
67.5°	327.2	274.8	215.9	150.5	98.1	65.4	55.6	55.6	58.9	72.0	101.4
70°	212.6	179.9	137.4	98.1	65.4	49.1	42.5	36.0	42.5	52.4	68.7
72.5°	134.2	114.5	88.3	68.7	49.1	36.0	29.5	26.2	32.7	39.2	52.4
75°	81.8	62.2	45.8	36.0	26.2	26.2	26.2	13.0	16.3	26.2	32.7
77.5°	49.1	42.5	36.0	29.5	22.9	13.0	13.0	13.0	16.3	19.6	29.5
80°	26.2	22.9	16.3	16.3	13.0	9.8	13.0	9.8	6.6	16.3	19.6
82.5°	16.3	13.0	13.0	13.0	16.3	6.6	9.8	6.6	9.8	13.0	9.8
85°	9.8	9.8	9.8	6.6	16.3	6.6	6.6	3.3	3.3	6.6	6.6
87.5°	0.0	3.3	3.3	0.0	3.3	0.0	3.3	3.3	3.3	3.3	3.3
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°	6163.4	6163.4	6163.4	6163.4	6163.4	6163.4	6163.4	6163.4	6163.4	6163.4	6163.4
2.5°	6173.3	6170.0	6173.3	6170.0	6170.0	6170.0	6173.3	6173.3	6170.0	6170.0	6176.6
5°	6199.5	6199.5	6199.5	6196.2	6192.9	6192.9	6199.5	6199.5	6189.6	6199.5	6199.5
7.5°	6255.1	6245.3	6255.1	6242.0	6235.5	6238.7	6242.0	6235.5	6228.9	6232.2	6232.2
10°	6327.1	6317.2	6317.2	6307.4	6297.6	6291.0	6284.6	6268.1	6251.8	6248.5	6235.5
12.5°	6412.1	6395.7	6386.0	6366.3	6350.0	6327.1	6307.4	6281.3	6248.5	6225.6	6202.7
15°	6497.2	6471.0	6448.1	6415.4	6379.4	6340.1	6297.6	6255.1	6202.7	6157.0	6117.7
17.5°	6565.8	6529.9	6487.3	6435.0	6382.7	6323.8	6261.7	6199.5	6124.2	6065.3	6019.5
20°	6588.7	6536.5	6480.8	6412.1	6343.4	6261.7	6183.1	6101.3	6016.2	5954.1	5901.8
22.5°	6559.4	6497.2	6428.5	6356.5	6264.9	6176.6	6085.0	5990.1	5914.8	5829.8	5780.7
25°	6477.5	6402.3	6327.1	6242.0	6153.7	6055.5	5957.4	5859.3	5767.6	5721.8	5659.7
27.5°	6310.7	6228.9	6147.1	6058.8	5957.4	5859.3	5757.8	5662.9	5584.5	5522.3	5486.3
30°	6016.2	5921.4	5826.5	5731.7	5643.3	5541.9	5447.0	5368.5	5290.0	5240.9	5204.9
32.5°	5564.8	5479.8	5384.9	5293.2	5211.5	5126.4	5047.9	4979.2	4923.6	4890.8	4864.7
35°	4956.3	4871.2	4799.3	4733.9	4665.1	4629.2	4580.1	4540.8	4517.9	4504.9	4501.6
37.5°	4190.7	4141.7	4118.8	4105.7	4092.6	4082.8	4089.3	4105.7	4118.8	4141.7	4167.9
40°	3372.9	3415.4	3428.5	3474.3	3516.8	3572.5	3634.7	3706.6	3765.5	3840.7	3893.0
42.5°	2627.0	2705.5	2797.1	2895.3	3000.0	3101.4	3225.7	3340.2	3444.9	3539.7	3621.5
45°	2018.5	2139.5	2277.0	2417.6	2558.3	2705.5	2856.0	2996.7	3121.0	3222.4	3307.5
47.5°	1573.6	1707.7	1884.4	2057.8	2227.9	2401.3	2568.1	2715.3	2820.0	2918.1	2993.4
50°	1246.4	1400.2	1593.2	1792.8	1979.3	2162.4	2339.1	2476.5	2581.2	2659.7	2715.3
52.5°	965.1	1148.3	1344.6	1554.0	1753.5	1953.1	2116.6	2244.2	2329.3	2398.0	2440.5
55°	719.7	899.7	1109.1	1325.0	1527.8	1720.8	1874.6	1985.8	2061.1	2100.3	2123.2
57.5°	520.2	683.8	893.1	1109.1	1292.2	1475.4	1599.8	1701.2	1743.7	1766.6	1776.4
60°	379.5	530.0	716.4	902.9	1076.3	1223.5	1331.5	1400.2	1432.9	1446.0	1442.7
62.5°	278.1	409.0	569.2	726.3	866.9	988.0	1073.0	1118.8	1135.2	1141.7	1132.0
65°	212.6	314.0	451.5	572.5	680.5	768.8	831.0	860.4	870.2	866.9	860.4
67.5°	157.1	235.6	337.0	428.6	507.1	575.8	608.5	634.7	641.2	631.4	621.6
70°	111.3	173.4	245.3	307.5	366.4	405.7	441.6	444.9	444.9	441.6	435.1
72.5°	78.5	121.0	166.8	209.4	245.3	274.8	287.9	297.7	294.4	291.1	284.6
75°	52.4	75.2	121.0	130.9	163.5	173.4	186.5	186.5	189.7	179.9	179.9
77.5°	32.7	52.4	72.0	85.1	98.1	111.3	117.8	117.8	121.0	117.8	117.8
80°	19.6	32.7	39.2	58.9	58.9	68.7	72.0	75.2	68.7	78.5	68.7
82.5°	13.0	19.6	29.5	29.5	36.0	42.5	42.5	45.8	45.8	42.5	42.5
85°	9.8	13.0	16.3	19.6	19.6	22.9	19.6	19.6	22.9	26.2	22.9
87.5°	3.3	6.6	3.3	6.6	6.6	13.0	9.8	9.8	9.8	13.0	13.0
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: P248422

CATALOG NUMBER: LSR8B150D010 EC8B1509727 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	6163.4	6163.4	6163.4	6163.4
2.5°	6170.0	6173.3	6170.0	6170.0
5°	6199.5	6196.2	6199.5	6192.9
7.5°	6222.4	6222.4	6219.1	6219.1
10°	6222.4	6209.3	6209.3	6209.3
12.5°	6173.3	6157.0	6147.1	6140.6
15°	6088.2	6058.8	6045.7	6042.4
17.5°	5977.0	5950.8	5934.5	5924.7
20°	5849.4	5823.2	5803.6	5806.9
22.5°	5738.2	5708.8	5695.6	5689.1
25°	5627.0	5590.9	5581.2	5574.6
27.5°	5447.0	5427.4	5417.6	5407.8
30°	5172.2	5162.4	5146.0	5168.9
32.5°	4854.9	4838.5	4825.4	4835.3
35°	4504.9	4495.0	4504.9	4498.3
37.5°	4184.3	4194.0	4207.2	4213.6
40°	3932.3	3968.3	3981.4	3987.9
42.5°	3680.4	3722.9	3749.1	3765.5
45°	3369.6	3412.1	3441.6	3461.3
47.5°	3049.0	3085.0	3114.4	3111.2
50°	2757.9	2777.5	2790.5	2803.7
52.5°	2463.4	2463.4	2466.7	2466.7
55°	2129.8	2123.2	2119.9	2123.2
57.5°	1763.3	1756.8	1753.5	1743.7
60°	1429.7	1410.0	1396.9	1396.9
62.5°	1118.8	1095.9	1086.2	1082.9
65°	840.7	837.5	817.8	814.6
67.5°	608.5	595.4	582.3	585.6
70°	428.6	409.0	409.0	402.4
72.5°	278.1	268.2	265.0	265.0
75°	173.4	173.4	166.8	179.9
77.5°	114.5	114.5	111.3	114.5
80°	68.7	68.7	68.7	65.4
82.5°	42.5	45.8	42.5	42.5
85°	22.9	26.2	19.6	29.5
87.5°	13.0	16.3	13.0	16.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)