

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: P248420

Luminaire Tested: **LSR8B100D010 EC8B1009727 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248420
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: LSR8B100D010 EC8B1009727 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: 7959.0 lumens
Efficiency: N/A
Efficacy: 74.9 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

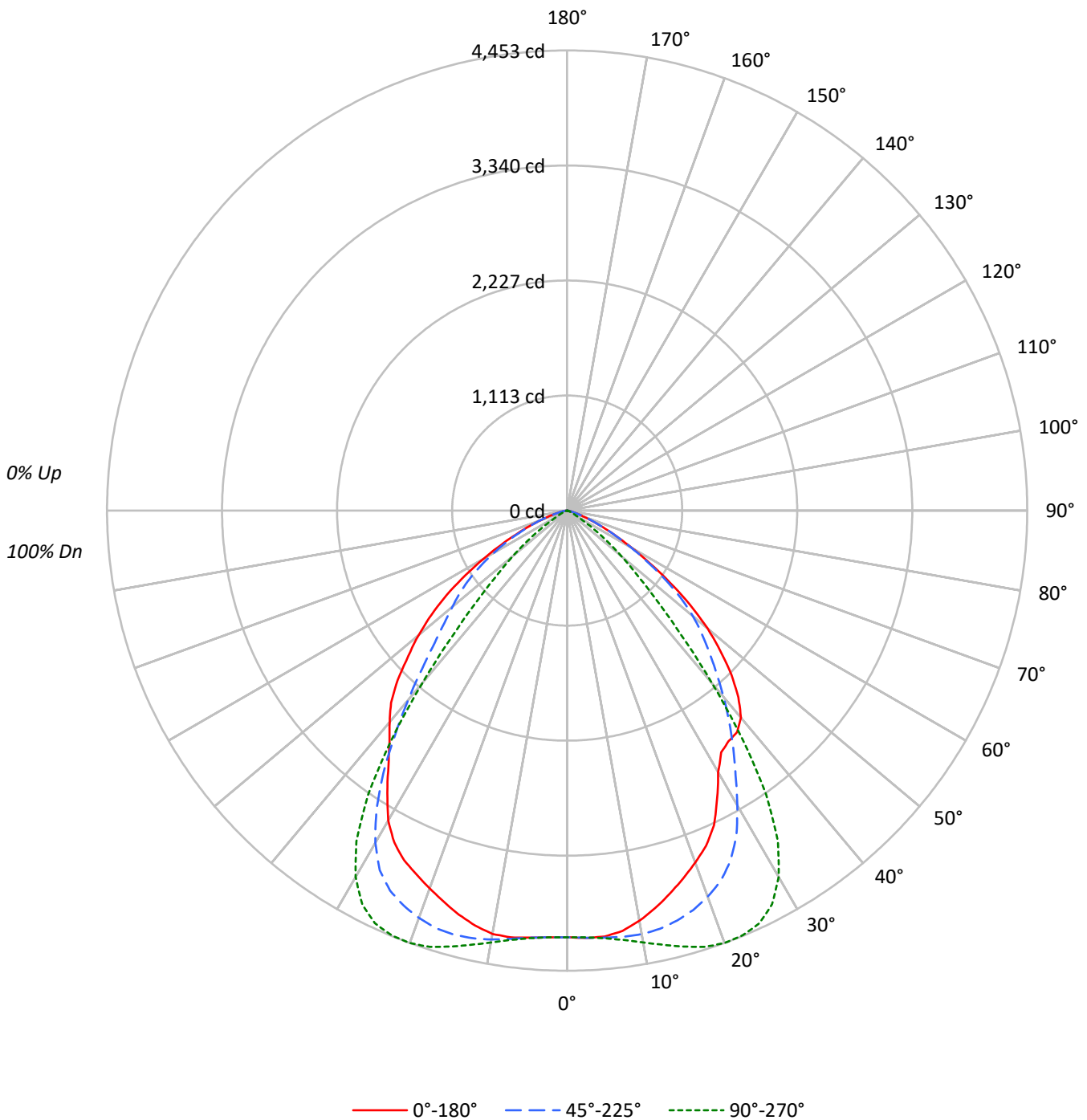
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	397.1	5.0
10°-20°	1176.3	14.8
20°-30°	1794.5	22.5
30°-40°	1872.6	23.5
40°-50°	1406.6	17.7
50°-60°	865.4	10.9
60°-70°	352.2	4.4
70°-80°	83.0	1.0
80°-90°	11.4	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°	3367.8	42.3
0°-40°	5240.4	65.8
0°-60°	7512.4	94.4
0°-90°	7959.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7959.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4129	4129	4129	4129	4129	
5°	4138	4149	4153	4149	4149	391
15°	3837	4107	4368	4247	4048	1081
25°	3362	3739	4405	4057	3734	1528
35°	2724	2801	3355	3101	3013	1720
45°	2248	1946	1214	1812	2319	1716
55°	1214	1153	318	1153	1422	1091
65°	379	384	48	515	546	395
75°	66	66	9	116	120	79
85°	7	7	2	15	20	9
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°	4128.8	4128.8	4128.8	4128.8	4128.8	4128.8	4128.8	4128.8	4128.8	4128.8	4128.8
2.5°	4139.8	4133.2	4139.8	4139.8	4142.0	4137.6	4139.8	4142.0	4137.6	4137.6	4137.6
5°	4137.6	4133.2	4137.6	4135.4	4139.8	4139.8	4144.2	4144.2	4148.6	4148.6	4155.2
7.5°	4102.6	4093.8	4102.6	4109.2	4113.5	4122.3	4133.2	4142.0	4150.8	4159.6	4170.5
10°	4030.2	4030.2	4036.8	4050.0	4063.1	4078.4	4098.2	4120.1	4142.0	4161.7	4181.5
12.5°	3940.4	3933.8	3947.0	3964.5	3984.2	4008.4	4039.0	4071.9	4107.0	4146.4	4177.1
15°	3837.4	3830.8	3846.1	3863.7	3887.8	3922.9	3960.1	4004.0	4054.4	4107.0	4157.4
17.5°	3732.2	3730.0	3745.3	3769.5	3789.2	3826.4	3874.7	3927.2	3984.2	4054.4	4120.1
20°	3624.8	3622.6	3638.0	3657.7	3684.0	3719.1	3767.3	3828.6	3896.6	3975.5	4052.2
22.5°	3513.0	3515.2	3528.4	3550.3	3572.2	3609.5	3659.9	3721.3	3795.7	3881.2	3966.7
25°	3361.8	3350.9	3368.4	3390.3	3427.6	3458.2	3506.5	3572.2	3648.9	3738.8	3839.6
27.5°	3142.7	3140.5	3155.8	3175.5	3208.4	3245.7	3298.3	3366.2	3447.3	3545.9	3644.5
30°	2923.5	2927.9	2934.5	2954.2	2976.1	3013.4	3066.0	3123.0	3199.7	3293.9	3399.1
32.5°	2774.5	2774.5	2783.3	2796.4	2811.7	2831.5	2868.7	2910.4	2969.6	3035.3	3112.0
35°	2724.1	2715.3	2724.1	2726.3	2728.5	2732.9	2739.4	2752.6	2772.3	2800.8	2829.3
37.5°	2702.2	2695.6	2695.6	2686.9	2675.9	2662.7	2645.2	2625.5	2603.6	2575.1	2553.2
40°	2616.7	2612.3	2607.9	2599.2	2575.1	2548.8	2520.3	2474.2	2423.8	2353.7	2283.6
42.5°	2452.4	2448.0	2445.8	2428.2	2406.3	2375.6	2342.8	2294.5	2231.0	2141.1	2040.3
45°	2248.5	2239.7	2233.2	2217.9	2202.5	2176.2	2145.5	2101.7	2038.1	1946.1	1825.6
47.5°	2011.8	2007.4	2005.3	1998.7	1983.4	1968.0	1948.3	1913.2	1856.2	1768.6	1643.7
50°	1773.0	1764.2	1768.6	1766.4	1759.8	1748.9	1735.7	1711.6	1667.7	1588.9	1474.9
52.5°	1499.0	1499.0	1496.8	1503.4	1505.6	1503.4	1505.6	1479.3	1442.0	1382.8	1286.4
55°	1214.1	1214.1	1220.7	1229.5	1238.2	1240.4	1238.2	1227.3	1201.0	1152.7	1067.3
57.5°	946.7	942.4	955.5	968.7	977.4	986.2	979.6	970.9	955.5	916.1	850.3
60°	721.0	721.0	729.8	738.6	747.3	756.1	753.9	751.7	738.6	712.2	659.7
62.5°	530.3	532.5	532.5	539.1	547.9	556.7	563.2	556.7	550.1	532.5	497.5
65°	379.1	376.9	379.1	385.7	392.3	401.1	405.4	403.2	396.7	383.5	357.2
67.5°	254.2	252.0	260.8	263.0	267.4	276.2	274.0	276.2	274.0	263.0	241.1
70°	166.6	162.2	166.6	164.4	171.0	173.1	177.5	179.7	177.5	171.0	164.4
72.5°	103.0	100.8	103.0	105.2	107.4	109.6	114.0	114.0	111.8	107.4	98.6
75°	65.7	59.1	61.3	57.0	61.3	61.3	65.7	67.9	65.7	65.7	61.3
77.5°	39.5	39.5	39.5	39.5	39.5	39.5	39.5	41.7	43.8	39.5	37.3
80°	19.7	19.7	21.9	21.9	21.9	24.1	21.9	21.9	21.9	24.1	17.5
82.5°	15.3	13.1	13.1	13.1	15.3	13.1	13.1	13.1	13.1	13.1	13.1
85°	6.6	8.7	6.6	4.4	6.6	6.6	8.7	6.6	6.6	6.6	8.7
87.5°	2.2	2.2	0.0	0.0	0.0	2.2	0.0	2.2	2.2	4.4	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°	4128.8	4128.8	4128.8	4128.8	4128.8	4128.8	4128.8	4128.8	4128.8	4128.8	4128.8
2.5°	4139.8	4135.4	4135.4	4133.2	4137.6	4133.2	4135.4	4133.2	4133.2	4137.6	4133.2
5°	4155.2	4157.4	4153.0	4150.8	4157.4	4157.4	4157.4	4153.0	4153.0	4155.2	4153.0
7.5°	4177.1	4181.5	4183.7	4185.8	4190.2	4192.4	4192.4	4190.2	4188.0	4194.6	4185.8
10°	4201.2	4207.8	4220.9	4227.5	4238.5	4238.5	4242.9	4242.9	4238.5	4242.9	4240.7
12.5°	4192.4	4231.9	4253.8	4269.1	4284.5	4297.6	4302.0	4304.2	4302.0	4310.8	4302.0
15°	4207.8	4240.7	4275.7	4302.0	4330.5	4345.8	4350.2	4367.7	4372.1	4374.3	4361.2
17.5°	4183.7	4242.9	4280.1	4319.5	4361.2	4389.7	4415.9	4426.9	4429.1	4433.5	4415.9
20°	4128.8	4194.6	4251.6	4308.6	4356.8	4400.6	4422.5	4453.2	4444.5	4462.0	4437.9
22.5°	4054.4	4128.8	4201.2	4275.7	4326.1	4378.7	4424.7	4446.6	4457.6	4457.6	4431.3
25°	3936.0	4023.7	4102.6	4179.3	4256.0	4319.5	4372.1	4405.0	4411.6	4409.4	4378.7
27.5°	3751.9	3846.1	3938.2	4025.9	4120.1	4194.6	4256.0	4295.4	4306.4	4306.4	4273.5
30°	3497.7	3598.5	3688.4	3793.5	3890.0	3973.3	4058.8	4093.8	4113.5	4113.5	4076.3
32.5°	3195.3	3280.7	3364.0	3467.0	3572.2	3666.5	3747.5	3795.7	3819.9	3817.7	3784.8
35°	2866.6	2908.2	2971.8	3048.4	3142.7	3230.3	3309.2	3355.3	3396.9	3394.7	3364.0
37.5°	2537.8	2526.8	2533.4	2561.9	2621.1	2682.5	2743.8	2787.7	2822.7	2838.1	2831.5
40°	2215.7	2158.7	2103.9	2084.2	2088.5	2110.5	2143.3	2176.2	2215.7	2235.4	2244.1
42.5°	1926.4	1830.0	1733.5	1661.2	1619.5	1606.4	1621.7	1632.7	1656.8	1685.3	1713.8
45°	1694.1	1564.8	1437.6	1325.9	1255.8	1214.1	1205.3	1214.1	1227.3	1255.8	1293.0
47.5°	1503.4	1352.2	1209.7	1084.8	981.8	927.0	911.7	907.3	920.4	946.7	997.1
50°	1334.6	1183.4	1025.7	881.0	773.6	712.2	690.3	681.6	696.9	716.6	762.6
52.5°	1150.5	1001.5	839.4	699.1	587.3	523.8	499.7	486.5	495.3	521.6	567.6
55°	951.1	813.0	666.2	521.6	414.2	355.0	326.5	317.8	326.5	355.0	401.1
57.5°	751.7	635.5	512.8	376.9	280.5	221.4	192.8	184.1	208.2	219.2	267.4
60°	587.3	493.1	387.9	276.2	192.8	146.8	118.3	111.8	122.7	142.4	181.9
62.5°	440.5	381.3	298.0	197.2	142.4	94.2	78.9	72.3	78.9	94.2	124.9
65°	320.0	274.0	208.2	144.6	96.4	70.1	52.6	48.2	54.8	65.7	92.1
67.5°	219.2	184.1	144.6	100.8	65.7	43.8	37.3	37.3	39.5	48.2	67.9
70°	142.4	120.5	92.1	65.7	43.8	32.9	28.5	24.1	28.5	35.1	46.0
72.5°	89.9	76.7	59.1	46.0	32.9	24.1	19.7	17.5	21.9	26.3	35.1
75°	54.8	41.7	30.7	24.1	17.5	17.5	17.5	8.7	10.9	17.5	21.9
77.5°	32.9	28.5	24.1	19.7	15.3	8.7	8.7	8.7	10.9	13.1	19.7
80°	17.5	15.3	10.9	10.9	8.7	6.6	8.7	6.6	4.4	10.9	13.1
82.5°	10.9	8.7	8.7	8.7	10.9	4.4	6.6	4.4	6.6	8.7	6.6
85°	6.6	6.6	6.6	4.4	10.9	4.4	4.4	2.2	2.2	4.4	4.4
87.5°	0.0	2.2	2.2	0.0	2.2	0.0	2.2	2.2	2.2	2.2	2.2
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4128.8	4128.8	4128.8	4128.8	4128.8	4128.8	4128.8	4128.8	4128.8	4128.8	4128.8
2.5°	4135.4	4133.2	4135.4	4133.2	4133.2	4133.2	4135.4	4135.4	4133.2	4133.2	4137.6
5°	4153.0	4153.0	4153.0	4150.8	4148.6	4148.6	4153.0	4153.0	4146.4	4153.0	4153.0
7.5°	4190.2	4183.7	4190.2	4181.5	4177.1	4179.3	4181.5	4177.1	4172.7	4174.9	4174.9
10°	4238.5	4231.9	4231.9	4225.3	4218.7	4214.3	4210.0	4199.0	4188.0	4185.8	4177.1
12.5°	4295.4	4284.5	4277.9	4264.7	4253.8	4238.5	4225.3	4207.8	4185.8	4170.5	4155.2
15°	4352.4	4334.9	4319.5	4297.6	4273.5	4247.2	4218.7	4190.2	4155.2	4124.5	4098.2
17.5°	4398.4	4374.3	4345.8	4310.8	4275.7	4236.3	4194.6	4153.0	4102.6	4063.1	4032.4
20°	4413.8	4378.7	4341.5	4295.4	4249.4	4194.6	4142.0	4087.2	4030.2	3988.6	3953.6
22.5°	4394.1	4352.4	4306.4	4258.2	4196.8	4137.6	4076.3	4012.7	3962.3	3905.3	3872.5
25°	4339.3	4288.9	4238.5	4181.5	4122.3	4056.6	3990.8	3925.1	3863.7	3833.0	3791.4
27.5°	4227.5	4172.7	4117.9	4058.8	3990.8	3925.1	3857.1	3793.5	3741.0	3699.3	3675.2
30°	4030.2	3966.7	3903.1	3839.6	3780.4	3712.5	3648.9	3596.3	3543.7	3510.8	3486.8
32.5°	3727.8	3670.8	3607.3	3545.9	3491.2	3434.2	3381.6	3335.5	3298.3	3276.3	3258.8
35°	3320.2	3263.2	3215.0	3171.2	3125.1	3101.0	3068.2	3041.8	3026.5	3017.8	3015.6
37.5°	2807.4	2774.5	2759.1	2750.4	2741.6	2735.1	2739.4	2750.4	2759.1	2774.5	2792.0
40°	2259.5	2288.0	2296.7	2327.4	2355.9	2393.2	2434.8	2483.0	2522.4	2572.9	2607.9
42.5°	1759.8	1812.4	1873.8	1939.5	2009.6	2077.6	2160.9	2237.5	2307.7	2371.2	2426.0
45°	1352.2	1433.2	1525.3	1619.5	1713.8	1812.4	1913.2	2007.4	2090.7	2158.7	2215.7
47.5°	1054.1	1144.0	1262.3	1378.5	1492.4	1608.6	1720.3	1819.0	1889.1	1954.8	2005.3
50°	835.0	938.0	1067.3	1201.0	1325.9	1448.6	1566.9	1659.0	1729.1	1781.7	1819.0
52.5°	646.5	769.2	900.7	1041.0	1174.7	1308.4	1417.9	1503.4	1560.4	1606.4	1634.9
55°	482.1	602.7	743.0	887.6	1023.5	1152.7	1255.8	1330.3	1380.7	1407.0	1422.3
57.5°	348.4	458.1	598.3	743.0	865.6	988.4	1071.7	1139.6	1168.1	1183.4	1190.0
60°	254.2	355.0	479.9	604.9	721.0	819.6	892.0	938.0	959.9	968.7	966.5
62.5°	186.3	274.0	381.3	486.5	580.7	661.8	718.8	749.5	760.5	764.8	758.3
65°	142.4	210.4	302.4	383.5	455.9	515.0	556.7	576.4	582.9	580.7	576.4
67.5°	105.2	157.8	225.8	287.1	339.7	385.7	407.6	425.2	429.5	423.0	416.4
70°	74.5	116.1	164.4	206.0	245.4	271.8	295.8	298.0	298.0	295.8	291.5
72.5°	52.6	81.1	111.8	140.3	164.4	184.1	192.8	199.4	197.2	195.0	190.7
75°	35.1	50.4	81.1	87.7	109.6	116.1	124.9	124.9	127.1	120.5	120.5
77.5°	21.9	35.1	48.2	57.0	65.7	74.5	78.9	78.9	81.1	78.9	78.9
80°	13.1	21.9	26.3	39.5	39.5	46.0	48.2	50.4	46.0	52.6	46.0
82.5°	8.7	13.1	19.7	19.7	24.1	28.5	28.5	30.7	30.7	28.5	28.5
85°	6.6	8.7	10.9	13.1	13.1	15.3	13.1	13.1	15.3	17.5	15.3
87.5°	2.2	4.4	2.2	4.4	4.4	8.7	6.6	6.6	6.6	8.7	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



TEST NUMBER: P248420

CATALOG NUMBER: LSR8B100D010 EC8B1009727 8LBDWOLI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	4128.8	4128.8	4128.8	4128.8
2.5°	4133.2	4135.4	4133.2	4133.2
5°	4153.0	4150.8	4153.0	4148.6
7.5°	4168.3	4168.3	4166.1	4166.1
10°	4168.3	4159.6	4159.6	4159.6
12.5°	4135.4	4124.5	4117.9	4113.5
15°	4078.4	4058.8	4050.0	4047.8
17.5°	4004.0	3986.4	3975.5	3968.9
20°	3918.5	3900.9	3887.8	3890.0
22.5°	3843.9	3824.3	3815.5	3811.1
25°	3769.5	3745.3	3738.8	3734.4
27.5°	3648.9	3635.8	3629.2	3622.6
30°	3464.8	3458.2	3447.3	3462.6
32.5°	3252.3	3241.3	3232.5	3239.1
35°	3017.8	3011.2	3017.8	3013.4
37.5°	2803.0	2809.5	2818.3	2822.7
40°	2634.3	2658.3	2667.1	2671.5
42.5°	2465.5	2494.0	2511.5	2522.4
45°	2257.3	2285.8	2305.5	2318.7
47.5°	2042.5	2066.6	2086.3	2084.2
50°	1847.5	1860.6	1869.4	1878.2
52.5°	1650.2	1650.2	1652.4	1652.4
55°	1426.7	1422.3	1420.1	1422.3
57.5°	1181.2	1176.9	1174.7	1168.1
60°	957.7	944.6	935.8	935.8
62.5°	749.5	734.2	727.6	725.4
65°	563.2	561.0	547.9	545.7
67.5°	407.6	398.9	390.1	392.3
70°	287.1	274.0	274.0	269.6
72.5°	186.3	179.7	177.5	177.5
75°	116.1	116.1	111.8	120.5
77.5°	76.7	76.7	74.5	76.7
80°	46.0	46.0	46.0	43.8
82.5°	28.5	30.7	28.5	28.5
85°	15.3	17.5	13.1	19.7
87.5°	8.7	10.9	8.7	10.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)