

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: P249772

Luminaire Tested: **LSR8B100D010 EC8B1009727 8LBSW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249772
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: LSR8B100D010 EC8B1009727 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: 8006.0 lumens
Efficiency: N/A
Efficacy: 75.3 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

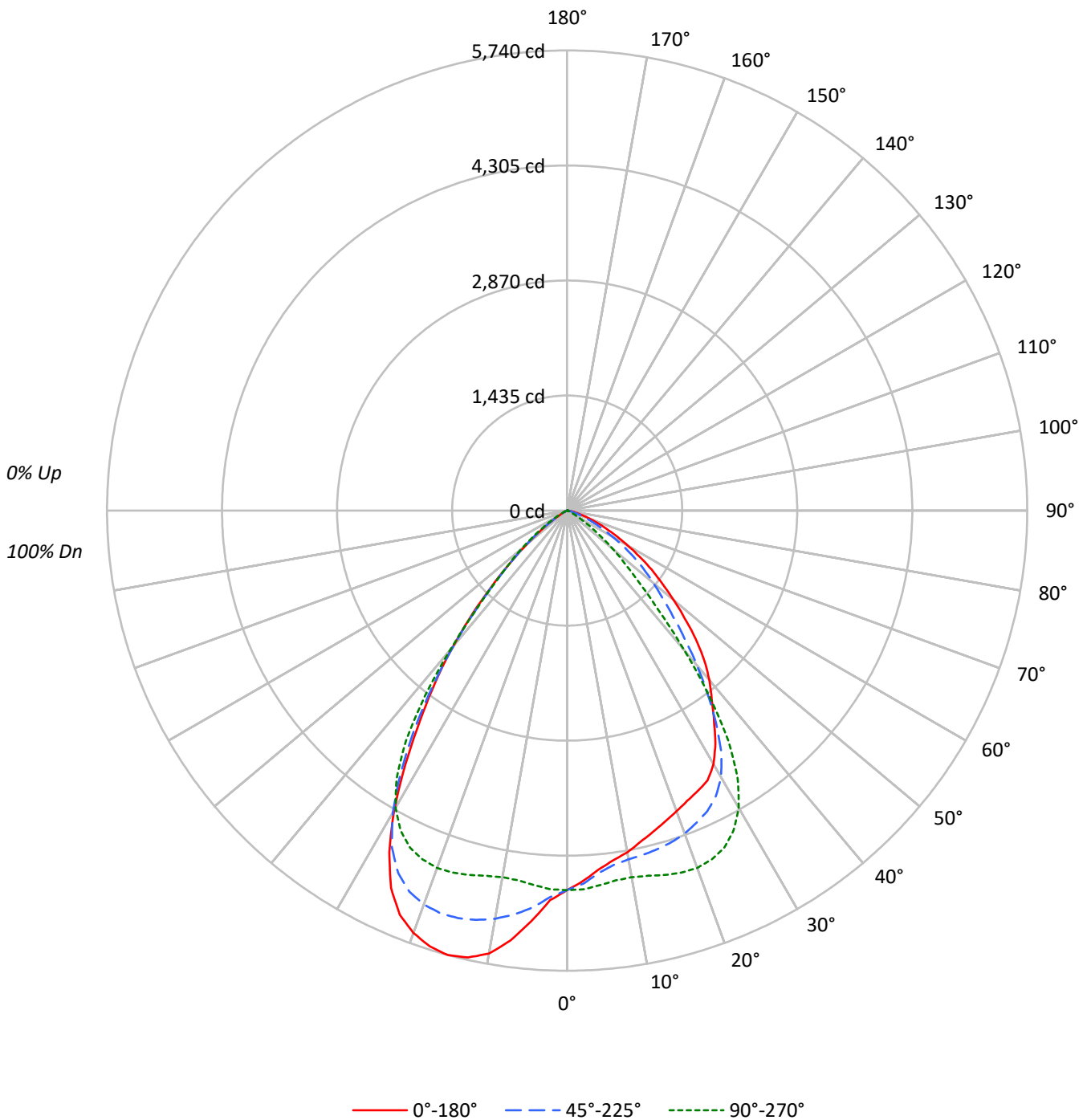
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	112	109	106	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91	91	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82	82	82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73	73	73
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66	66	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60	60	60
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54	54	54
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49	49	49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45	45	45
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42	42	42
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	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°	455.1	5.7
10°-20°	1362.0	17.0
20°-30°	2085.8	26.1
30°-40°	2044.8	25.5
40°-50°	1231.4	15.4
50°-60°	566.8	7.1
60°-70°	199.1	2.5
70°-80°	52.1	0.7
80°-90°	8.9	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°	3903.0	48.8
0°-40°	5947.8	74.3
0°-60°	7746.0	96.8
0°-90°	8006.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8006.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4734	4734	4734	4734	4734	
5°	4493	4535	4690	4971	5141	424
15°	4148	4371	4705	5263	5740	1172
25°	3858	4137	4639	4988	5196	1777
35°	3192	3236	3504	3303	3196	1999
45°	2267	1867	1265	1274	1307	1739
55°	1288	1020	363	285	274	1149
65°	546	378	58	29	31	557
75°	142	82	4	0	0	172
85°	22	11	2	0	0	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°	4734.0	4734.0	4734.0	4734.0	4734.0	4734.0	4734.0	4734.0	4734.0	4734.0	4734.0
2.5°	4623.3	4627.8	4627.8	4627.8	4636.6	4638.9	4636.6	4638.9	4643.3	4658.8	4665.4
5°	4492.9	4486.2	4490.7	4488.4	4499.5	4506.1	4501.7	4508.3	4523.8	4534.9	4545.9
7.5°	4400.0	4400.0	4400.0	4404.4	4411.0	4424.3	4422.1	4426.5	4442.0	4457.4	4472.9
10°	4327.0	4324.8	4324.8	4335.8	4344.6	4360.1	4364.6	4377.9	4397.7	4417.6	4435.3
12.5°	4231.8	4234.1	4245.1	4256.2	4276.1	4300.4	4313.7	4331.4	4362.4	4395.5	4415.5
15°	4147.8	4149.9	4158.9	4180.9	4205.3	4234.1	4262.8	4291.5	4329.1	4371.2	4406.6
17.5°	4065.9	4068.1	4074.7	4099.1	4130.1	4167.7	4200.8	4238.5	4287.2	4335.8	4380.0
20°	3990.7	3988.5	3999.5	4021.7	4061.5	4096.9	4130.1	4174.3	4227.4	4287.2	4338.0
22.5°	3917.7	3917.7	3928.8	3950.9	3986.3	4021.7	4057.1	4103.5	4156.6	4214.1	4273.9
25°	3857.9	3855.8	3871.2	3882.3	3908.8	3944.3	3981.9	4019.5	4072.6	4136.7	4194.2
27.5°	3793.8	3791.7	3793.8	3807.1	3831.4	3857.9	3886.7	3919.9	3964.2	4017.3	4072.6
30°	3652.2	3654.4	3654.4	3665.5	3678.8	3707.5	3723.0	3756.2	3796.0	3840.3	3889.0
32.5°	3442.1	3444.3	3444.3	3448.7	3459.8	3473.1	3486.3	3510.7	3541.6	3579.2	3623.5
35°	3192.2	3192.2	3189.9	3192.2	3198.8	3198.8	3209.8	3198.8	3214.3	3236.4	3269.6
37.5°	2962.1	2957.6	2953.2	2948.8	2942.1	2931.1	2915.6	2889.0	2882.4	2873.6	2875.7
40°	2758.6	2756.4	2743.1	2732.0	2709.8	2683.3	2645.7	2599.3	2561.7	2517.4	2479.8
42.5°	2532.9	2530.7	2519.6	2499.7	2475.4	2435.6	2375.9	2313.9	2238.7	2172.4	2103.8
45°	2267.4	2274.1	2258.6	2236.5	2207.7	2170.1	2103.8	2028.5	1953.3	1867.1	1780.7
47.5°	1990.9	1988.7	1977.7	1964.4	1940.1	1902.5	1858.2	1776.4	1696.7	1617.1	1528.6
50°	1734.3	1725.5	1721.0	1707.8	1692.3	1661.4	1614.8	1548.5	1477.7	1402.5	1320.6
52.5°	1491.0	1491.0	1479.9	1471.1	1457.8	1433.5	1393.7	1340.6	1280.9	1210.0	1123.8
55°	1287.5	1283.0	1272.0	1260.9	1247.6	1232.1	1196.8	1152.6	1088.4	1019.8	944.6
57.5°	1070.7	1068.4	1064.1	1050.8	1044.1	1028.6	988.8	944.6	889.3	829.6	767.6
60°	876.0	867.2	858.3	849.4	838.4	822.9	796.4	758.7	712.3	659.2	597.3
62.5°	701.3	714.5	688.0	688.0	665.9	652.6	628.3	606.1	557.4	508.8	455.7
65°	546.4	546.4	535.3	526.5	513.2	497.7	473.4	451.3	415.8	378.2	340.6
67.5°	418.1	415.8	404.8	396.0	384.9	376.1	358.4	331.8	305.3	274.3	243.3
70°	307.5	305.3	303.0	287.5	278.7	267.7	254.4	236.7	216.8	194.7	165.9
72.5°	221.2	221.2	214.6	208.0	199.1	190.2	177.0	165.9	148.2	132.8	112.8
75°	141.6	139.4	139.4	128.3	128.3	115.0	106.2	99.5	90.7	81.9	64.2
77.5°	101.8	99.5	97.3	92.9	88.5	84.0	77.4	68.6	61.9	53.1	46.4
80°	68.6	64.2	61.9	61.9	55.3	53.1	55.3	42.1	39.8	33.1	28.8
82.5°	42.1	42.1	39.8	39.8	37.6	35.4	28.8	28.8	26.6	24.3	19.9
85°	22.1	28.8	19.9	22.1	19.9	22.1	19.9	15.5	13.3	11.0	11.0
87.5°	13.3	8.8	8.8	13.3	11.0	8.8	8.8	8.8	6.6	4.5	4.5
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°	4734.0	4734.0	4734.0	4734.0	4734.0	4734.0	4734.0	4734.0	4734.0	4734.0	4734.0
2.5°	4661.0	4676.5	4674.2	4694.2	4700.8	4716.3	4716.3	4727.3	4734.0	4749.4	4762.7
5°	4550.4	4574.7	4581.4	4605.7	4625.6	4649.9	4665.4	4689.7	4711.8	4745.1	4776.0
7.5°	4481.8	4501.7	4515.0	4543.8	4565.9	4592.4	4619.0	4652.1	4683.1	4722.9	4767.2
10°	4448.6	4475.2	4495.0	4523.8	4550.4	4579.2	4605.7	4643.3	4678.7	4729.6	4778.2
12.5°	4439.8	4470.7	4495.0	4534.9	4561.4	4592.4	4623.3	4665.4	4703.0	4756.1	4811.5
15°	4439.8	4481.8	4515.0	4559.2	4590.2	4630.0	4663.2	4705.2	4747.3	4802.5	4855.6
17.5°	4430.9	4481.8	4523.8	4574.7	4614.5	4654.4	4696.4	4736.2	4780.4	4833.6	4893.2
20°	4395.5	4459.7	4510.5	4570.3	4612.3	4656.6	4698.6	4742.8	4789.3	4844.6	4895.5
22.5°	4333.6	4408.8	4466.4	4530.5	4579.2	4623.3	4665.4	4709.7	4760.6	4813.6	4866.7
25°	4251.7	4322.5	4384.5	4450.8	4499.5	4548.1	4588.0	4638.9	4685.3	4736.2	4778.2
27.5°	4127.8	4203.0	4262.8	4331.4	4375.6	4422.1	4455.2	4497.3	4541.6	4583.5	4616.8
30°	3942.1	4010.6	4072.6	4134.5	4178.7	4212.0	4247.3	4280.5	4309.3	4338.0	4366.7
32.5°	3669.9	3731.9	3791.7	3849.1	3884.5	3913.3	3939.8	3959.7	3975.2	3990.7	3992.9
35°	3296.1	3346.9	3384.6	3435.5	3468.7	3495.2	3495.2	3504.0	3501.8	3495.2	3488.5
37.5°	2878.0	2897.9	2913.3	2933.3	2935.5	2935.5	2922.3	2911.2	2893.5	2889.0	2875.7
40°	2442.2	2415.7	2395.7	2369.2	2353.7	2320.5	2291.8	2271.9	2243.1	2238.7	2234.3
42.5°	2028.5	1966.6	1911.3	1864.9	1811.8	1765.3	1723.3	1692.3	1670.2	1667.9	1670.2
45°	1692.3	1621.5	1539.6	1475.5	1415.8	1358.2	1303.0	1265.4	1245.4	1241.0	1245.4
47.5°	1437.9	1356.1	1276.4	1203.4	1139.3	1075.1	1019.8	968.9	944.6	937.9	935.8
50°	1236.6	1152.6	1068.4	993.2	922.5	858.3	789.7	741.1	710.1	699.0	690.2
52.5°	1039.7	964.5	878.2	800.8	730.0	654.8	584.0	528.7	497.7	484.5	475.6
55°	867.2	792.0	712.3	637.1	561.9	486.7	415.8	362.8	329.6	314.1	303.0
57.5°	692.4	621.6	553.1	477.8	415.8	342.9	272.1	225.6	196.9	179.2	170.4
60°	535.3	480.0	420.3	358.4	298.7	238.9	181.4	137.1	115.0	101.8	90.7
62.5°	404.8	358.4	318.5	265.4	219.0	168.1	123.9	88.5	68.6	57.5	53.1
65°	292.0	256.6	221.2	188.0	154.9	117.3	84.0	57.5	39.8	33.1	31.0
67.5°	208.0	179.2	152.6	130.5	106.2	84.0	59.7	39.8	31.0	26.6	24.3
70°	146.0	123.9	106.2	86.3	70.7	55.3	46.4	28.8	17.7	19.9	15.5
72.5°	97.3	81.9	73.0	59.7	48.6	39.8	28.8	19.9	19.9	15.5	13.3
75°	53.1	48.6	37.6	28.8	24.3	22.1	8.8	4.5	2.2	6.6	2.2
77.5°	37.6	33.1	28.8	24.3	19.9	15.5	8.8	8.8	6.6	8.8	4.5
80°	24.3	19.9	17.7	17.7	11.0	6.6	4.5	4.5	6.6	2.2	2.2
82.5°	15.5	13.3	11.0	11.0	11.0	6.6	6.6	6.6	6.6	4.5	4.5
85°	8.8	6.6	4.5	4.5	2.2	4.5	0.0	2.2	2.2	0.0	0.0
87.5°	4.5	2.2	2.2	2.2	2.2	0.0	0.0	2.2	0.0	2.2	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°	4734.0	4734.0	4734.0	4734.0	4734.0	4734.0	4734.0	4734.0	4734.0	4734.0	4734.0
2.5°	4771.6	4780.4	4791.5	4800.3	4820.3	4824.7	4833.6	4842.4	4849.1	4855.6	4857.9
5°	4802.5	4835.8	4866.7	4899.9	4941.9	4970.7	5003.8	5032.6	5061.4	5085.7	5103.4
7.5°	4811.5	4862.3	4908.8	4966.2	5028.2	5081.3	5136.6	5191.9	5249.4	5293.7	5331.3
10°	4829.1	4891.0	4950.8	5019.3	5099.0	5169.7	5238.3	5311.3	5384.4	5446.3	5501.6
12.5°	4860.1	4928.6	4992.8	5068.0	5149.9	5229.5	5304.7	5386.5	5464.0	5532.6	5594.5
15°	4911.0	4975.1	5037.1	5107.8	5189.7	5262.7	5337.9	5417.5	5495.0	5565.7	5623.3
17.5°	4944.1	5003.8	5065.8	5130.0	5198.5	5264.9	5335.6	5406.5	5477.2	5541.4	5594.5
20°	4944.1	5001.7	5048.1	5105.6	5169.7	5227.3	5284.8	5346.8	5408.7	5461.8	5512.7
22.5°	4904.3	4959.6	4995.0	5039.3	5094.5	5143.3	5174.2	5242.8	5289.2	5335.6	5373.3
25°	4811.5	4851.2	4880.0	4911.0	4955.2	4988.4	5015.0	5054.7	5101.2	5118.9	5145.4
27.5°	4643.3	4672.0	4687.5	4694.2	4716.3	4734.0	4738.4	4756.1	4776.0	4780.4	4791.5
30°	4377.9	4380.0	4373.4	4371.2	4360.1	4346.9	4344.6	4342.4	4333.6	4324.8	4327.0
32.5°	3977.4	3966.4	3939.8	3911.1	3882.3	3851.4	3833.6	3811.5	3798.2	3785.0	3769.5
35°	3459.8	3433.3	3395.7	3360.2	3327.1	3302.7	3262.9	3249.6	3236.4	3218.7	3214.3
37.5°	2851.4	2836.0	2800.5	2774.0	2756.4	2745.3	2725.3	2712.1	2712.1	2705.5	2701.0
40°	2223.2	2218.8	2205.5	2212.1	2203.3	2207.7	2205.5	2201.0	2212.1	2212.1	2216.6
42.5°	1667.9	1670.2	1676.8	1681.2	1694.5	1696.7	1707.8	1707.8	1714.4	1721.0	1725.5
45°	1241.0	1249.9	1249.9	1258.7	1272.0	1274.2	1278.6	1280.9	1285.2	1296.3	1300.7
47.5°	931.3	933.5	933.5	935.8	940.1	944.6	942.4	944.6	951.2	946.8	951.2
50°	688.0	690.2	683.5	676.9	683.5	683.5	681.4	674.7	681.4	672.5	676.9
52.5°	469.0	466.7	460.1	462.4	457.9	455.7	455.7	451.3	451.3	451.3	442.4
55°	296.5	296.5	292.0	292.0	289.8	285.4	283.2	280.9	278.7	276.5	276.5
57.5°	165.9	168.1	161.5	159.3	161.5	159.3	154.9	154.9	154.9	148.2	152.6
60°	90.7	88.5	86.3	84.0	81.9	84.0	84.0	79.7	79.7	79.7	81.9
62.5°	48.6	48.6	46.4	46.4	44.3	44.3	48.6	42.1	44.3	42.1	44.3
65°	26.6	33.1	24.3	24.3	31.0	28.8	26.6	26.6	28.8	24.3	26.6
67.5°	28.8	19.9	17.7	19.9	17.7	17.7	17.7	22.1	19.9	15.5	19.9
70°	13.3	15.5	15.5	11.0	17.7	8.8	15.5	8.8	13.3	11.0	13.3
72.5°	13.3	13.3	13.3	8.8	13.3	8.8	11.0	11.0	8.8	8.8	13.3
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°	4.5	4.5	2.2	2.2	2.2	2.2	4.5	4.5	4.5	0.0	2.2
80°	4.5	4.5	0.0	2.2	0.0	0.0	2.2	0.0	2.2	0.0	4.5
82.5°	2.2	4.5	2.2	2.2	4.5	4.5	4.5	2.2	2.2	2.2	2.2
85°	0.0	2.2	0.0	0.0	0.0	0.0	4.5	0.0	0.0	0.0	2.2
87.5°	0.0	2.2	0.0	0.0	0.0	0.0	2.2	2.2	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: P249772

CATALOG NUMBER: LSR8B100D010 EC8B1009727 8LBSW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	4734.0	4734.0	4734.0	4734.0
2.5°	4860.1	4862.3	4866.7	4864.5
5°	5116.7	5134.4	5143.3	5141.1
7.5°	5357.8	5388.8	5406.5	5406.5
10°	5543.6	5579.0	5605.5	5610.0
12.5°	5643.1	5683.0	5718.4	5709.5
15°	5671.9	5711.8	5747.1	5740.5
17.5°	5638.8	5678.6	5705.1	5700.7
20°	5548.1	5581.2	5607.8	5605.5
22.5°	5406.5	5435.3	5457.4	5455.1
25°	5167.6	5187.5	5205.2	5196.3
27.5°	4800.3	4807.0	4818.0	4804.8
30°	4311.5	4315.8	4320.3	4318.1
32.5°	3762.9	3760.6	3756.2	3751.8
35°	3207.6	3207.6	3209.8	3196.5
37.5°	2703.2	2701.0	2707.7	2701.0
40°	2221.0	2218.8	2227.6	2216.6
42.5°	1732.1	1738.8	1740.9	1740.9
45°	1303.0	1305.2	1307.3	1307.3
47.5°	951.2	953.4	964.5	951.2
50°	672.5	674.7	676.9	672.5
52.5°	444.6	446.9	444.6	438.0
55°	272.1	274.3	274.3	274.3
57.5°	146.0	148.2	148.2	146.0
60°	79.7	77.4	79.7	75.2
62.5°	42.1	46.4	44.3	39.8
65°	26.6	26.6	26.6	31.0
67.5°	22.1	17.7	19.9	15.5
70°	13.3	15.5	15.5	11.0
72.5°	11.0	11.0	11.0	13.3
75°	0.0	0.0	0.0	0.0
77.5°	4.5	4.5	4.5	2.2
80°	2.2	0.0	2.2	0.0
82.5°	2.2	2.2	4.5	2.2
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)