

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: P249714

Luminaire Tested: **LD8B80D010 ER8B80835 8LBSW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249714
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: LD8B80D010 ER8B80835 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3500 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8848.0 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

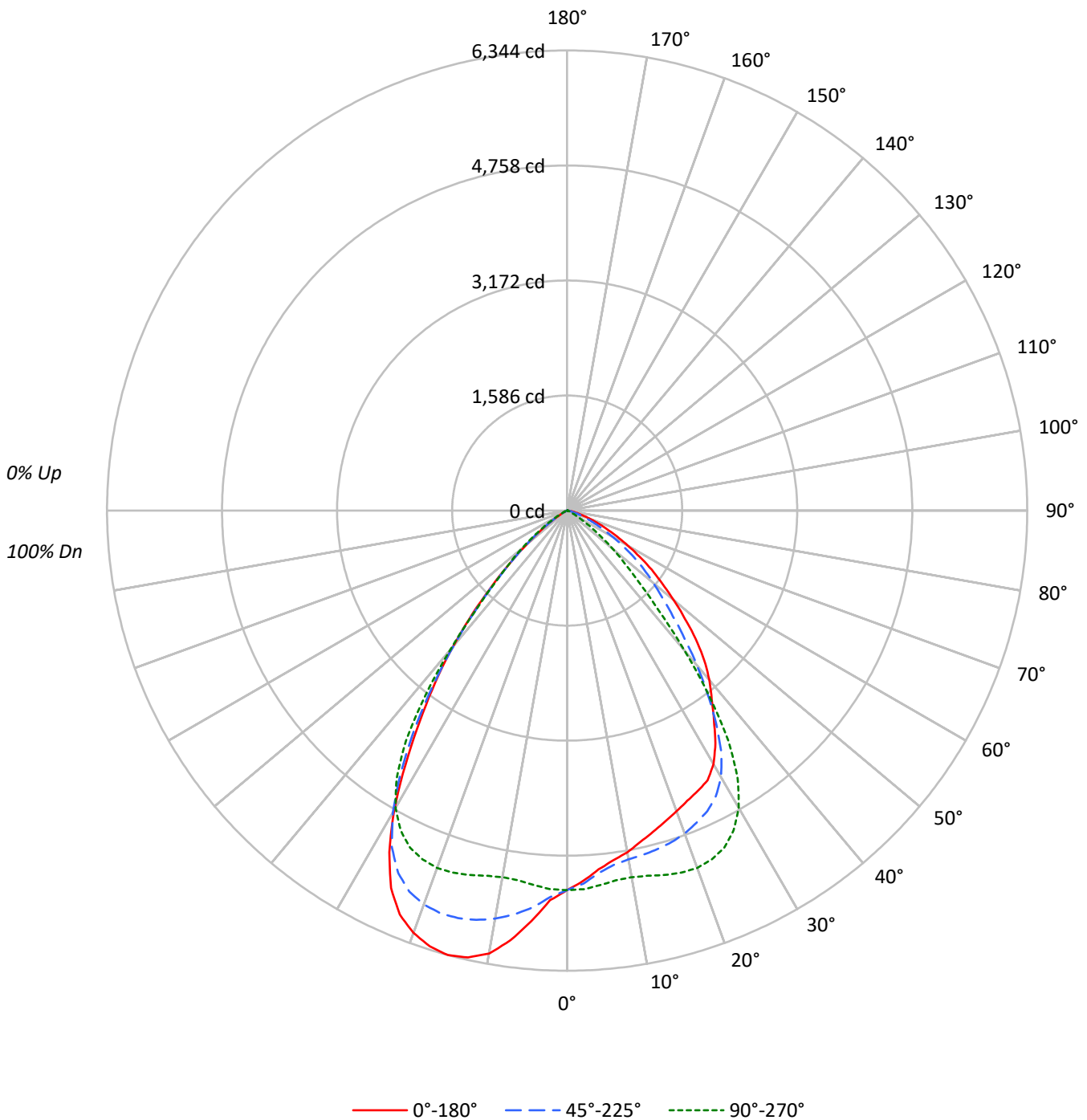
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	161329	161329	161329
5°	153700	160432	175875
10°	149734	160681	194134
15°	146340	166005	202533
20°	144729	172005	203294
25°	145069	174435	195394
30°	143723	168445	169926
35°	132805	145777	132986
40°	122722	101070	98610
45°	109280	60987	63006
50°	91949	39290	35658
55°	76497	21553	16300
60°	59711	9343	5125
65°	44064	4641	2495
70°	30636	2867	1100
75°	18646	584	0
80°	13461	870	0
85°	8668	849	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	503.0	5.7
10°-20°	1505.3	17.0
20°-30°	2305.2	26.1
30°-40°	2259.9	25.5
40°-50°	1360.9	15.4
50°-60°	626.4	7.1
60°-70°	220.0	2.5
70°-80°	57.6	0.7
80°-90°	9.8	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°	4313.5	48.8
0°-40°	6573.3	74.3
0°-60°	8560.6	96.8
0°-90°	8848.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8848.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5232	5232	5232	5232	5232	
5°	4965	5012	5183	5494	5682	469
15°	4584	4831	5200	5816	6344	1295
25°	4264	4572	5127	5513	5743	1964
35°	3528	3577	3872	3650	3533	2210
45°	2506	2063	1398	1408	1445	1922
55°	1423	1127	401	315	303	1270
65°	604	418	64	32	34	615
75°	156	90	5	0	0	190
85°	24	12	2	0	0	34
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°	5231.8	5231.8	5231.8	5231.8	5231.8	5231.8	5231.8	5231.8	5231.8	5231.8	5231.8
2.5°	5109.6	5114.5	5114.5	5114.5	5124.3	5126.8	5124.3	5126.8	5131.6	5148.7	5156.1
5°	4965.4	4958.0	4963.0	4960.4	4972.7	4980.1	4975.1	4982.5	4999.6	5011.9	5024.0
7.5°	4862.7	4862.7	4862.7	4867.6	4874.9	4889.6	4887.2	4892.0	4909.1	4926.2	4943.3
10°	4782.0	4779.6	4779.6	4791.8	4801.5	4818.7	4823.6	4838.3	4860.2	4882.3	4901.8
12.5°	4676.9	4679.4	4691.6	4703.8	4725.8	4752.6	4767.3	4787.0	4821.2	4857.8	4879.8
15°	4584.0	4586.4	4596.3	4620.6	4647.6	4679.4	4711.1	4742.9	4784.4	4830.9	4870.1
17.5°	4493.5	4495.9	4503.3	4530.3	4564.5	4606.0	4642.7	4684.2	4738.1	4791.8	4840.7
20°	4410.4	4408.0	4420.2	4444.6	4488.7	4527.7	4564.5	4613.4	4672.0	4738.1	4794.2
22.5°	4329.7	4329.7	4342.0	4366.4	4405.6	4444.6	4483.8	4535.1	4593.7	4657.3	4723.4
25°	4263.7	4261.3	4278.4	4290.7	4319.9	4359.1	4400.6	4442.2	4500.9	4571.8	4635.3
27.5°	4192.8	4190.4	4192.8	4207.5	4234.4	4263.7	4295.5	4332.2	4381.1	4439.8	4500.9
30°	4036.4	4038.8	4038.8	4051.1	4065.7	4097.4	4114.5	4151.3	4195.3	4244.2	4298.0
32.5°	3804.1	3806.5	3806.5	3811.5	3823.6	3838.3	3853.0	3879.9	3914.1	3955.7	4004.6
35°	3527.9	3527.9	3525.4	3527.9	3535.2	3535.2	3547.4	3535.2	3552.3	3576.8	3613.4
37.5°	3273.6	3268.7	3263.8	3258.9	3251.5	3239.4	3222.3	3192.9	3185.5	3175.8	3178.2
40°	3048.7	3046.3	3031.6	3019.3	2994.8	2965.6	2924.0	2872.7	2831.1	2782.2	2740.7
42.5°	2799.3	2796.8	2784.6	2762.6	2735.7	2691.7	2625.7	2557.3	2474.2	2400.8	2325.1
45°	2505.9	2513.2	2496.1	2471.7	2439.9	2398.3	2325.1	2241.8	2158.7	2063.4	1968.0
47.5°	2200.3	2197.9	2185.7	2171.0	2144.1	2102.6	2053.7	1963.2	1875.1	1787.2	1689.4
50°	1916.7	1906.9	1902.0	1887.4	1870.3	1836.1	1784.7	1711.3	1633.1	1550.0	1459.5
52.5°	1647.8	1647.8	1635.5	1625.8	1611.1	1584.2	1540.2	1481.6	1415.6	1337.3	1242.0
55°	1422.9	1418.0	1405.8	1393.5	1378.8	1361.7	1322.7	1273.8	1202.8	1127.1	1043.9
57.5°	1183.3	1180.8	1176.0	1161.3	1153.9	1136.8	1092.8	1043.9	982.9	916.8	848.3
60°	968.2	958.4	948.5	938.8	926.6	909.5	880.1	838.5	787.2	728.6	660.1
62.5°	775.1	789.6	760.4	760.4	735.9	721.2	694.3	669.9	616.1	562.3	503.7
65°	603.9	603.9	591.6	581.8	567.1	550.0	523.2	498.7	459.6	418.0	376.5
67.5°	462.1	459.6	447.4	437.6	425.4	415.6	396.1	366.7	337.4	303.2	268.9
70°	339.8	337.4	334.9	317.8	308.0	295.9	281.2	261.6	239.6	215.1	183.3
72.5°	244.4	244.4	237.2	229.8	220.1	210.2	195.6	183.3	163.8	146.7	124.7
75°	156.5	154.1	154.1	141.8	141.8	127.1	117.3	110.0	100.2	90.5	70.9
77.5°	112.5	110.0	107.6	102.6	97.8	92.9	85.5	75.8	68.4	58.7	51.3
80°	75.8	70.9	68.4	68.4	61.1	58.7	61.1	46.5	44.0	36.6	31.8
82.5°	46.5	46.5	44.0	44.0	41.6	39.1	31.8	31.8	29.4	26.9	22.0
85°	24.5	31.8	22.0	24.5	22.0	24.5	22.0	17.1	14.7	12.2	12.2
87.5°	14.7	9.8	9.8	14.7	12.2	9.8	9.8	9.8	7.3	4.9	4.9
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°	5231.8	5231.8	5231.8	5231.8	5231.8	5231.8	5231.8	5231.8	5231.8	5231.8	5231.8
2.5°	5151.2	5168.3	5165.8	5187.9	5195.2	5212.3	5212.3	5224.5	5231.8	5248.9	5263.6
5°	5029.0	5055.8	5063.2	5090.1	5112.1	5139.0	5156.1	5182.9	5207.4	5244.1	5278.3
7.5°	4953.2	4975.1	4989.8	5021.6	5046.1	5075.4	5104.7	5141.4	5175.6	5219.7	5268.6
10°	4916.5	4945.9	4967.8	4999.6	5029.0	5060.8	5090.1	5131.6	5170.8	5227.0	5280.7
12.5°	4906.7	4940.9	4967.8	5011.9	5041.1	5075.4	5109.6	5156.1	5197.6	5256.3	5317.5
15°	4906.7	4953.2	4989.8	5038.7	5072.9	5116.9	5153.7	5200.0	5246.5	5307.6	5366.3
17.5°	4896.9	4953.2	4999.6	5055.8	5099.8	5143.9	5190.3	5234.4	5283.2	5341.9	5407.8
20°	4857.8	4928.7	4984.9	5050.9	5097.4	5146.3	5192.8	5241.6	5293.0	5354.1	5410.4
22.5°	4789.4	4872.5	4936.1	5006.9	5060.8	5109.6	5156.1	5205.0	5261.2	5319.9	5378.6
25°	4698.9	4777.1	4845.6	4918.9	4972.7	5026.5	5070.5	5126.8	5178.1	5234.4	5280.7
27.5°	4561.9	4645.1	4711.1	4787.0	4835.8	4887.2	4923.8	4970.3	5019.2	5065.6	5102.3
30°	4356.7	4432.4	4500.9	4569.3	4618.2	4654.9	4694.0	4730.7	4762.5	4794.2	4826.0
32.5°	4055.9	4124.4	4190.4	4253.9	4293.1	4324.9	4354.1	4376.2	4393.3	4410.4	4412.8
35°	3642.8	3698.9	3740.5	3796.8	3833.5	3862.8	3862.8	3872.5	3870.1	3862.8	3855.4
37.5°	3180.7	3202.6	3219.7	3241.8	3244.2	3244.2	3229.6	3217.3	3197.8	3192.9	3178.2
40°	2699.1	2669.7	2647.7	2618.4	2601.3	2564.5	2532.9	2510.8	2479.0	2474.2	2469.3
42.5°	2241.8	2173.4	2112.3	2061.0	2002.3	1950.9	1904.5	1870.3	1845.9	1843.3	1845.9
45°	1870.3	1792.0	1701.5	1630.7	1564.7	1501.1	1440.0	1398.5	1376.4	1371.5	1376.4
47.5°	1589.1	1498.7	1410.6	1329.9	1259.1	1188.1	1127.1	1070.8	1043.9	1036.6	1034.2
50°	1366.7	1273.8	1180.8	1097.7	1019.5	948.5	872.8	819.0	784.8	772.5	762.8
52.5°	1149.1	1066.0	970.6	885.0	806.7	723.6	645.4	584.3	550.0	535.5	525.6
55°	958.4	875.3	787.2	704.1	621.0	537.9	459.6	400.9	364.3	347.2	334.9
57.5°	765.2	687.0	611.2	528.1	459.6	379.0	300.7	249.4	217.6	198.0	188.3
60°	591.6	530.5	464.5	396.1	330.1	264.1	200.5	151.5	127.1	112.5	100.2
62.5°	447.4	396.1	352.0	293.3	242.0	185.8	137.0	97.8	75.8	63.6	58.7
65°	322.7	283.6	244.4	207.8	171.2	129.6	92.9	63.6	44.0	36.6	34.2
67.5°	229.8	198.0	168.7	144.2	117.3	92.9	66.0	44.0	34.2	29.4	26.9
70°	161.3	137.0	117.3	95.4	78.2	61.1	51.3	31.8	19.5	22.0	17.1
72.5°	107.6	90.5	80.7	66.0	53.7	44.0	31.8	22.0	22.0	17.1	14.7
75°	58.7	53.7	41.6	31.8	26.9	24.5	9.8	4.9	2.4	7.3	2.4
77.5°	41.6	36.6	31.8	26.9	22.0	17.1	9.8	9.8	7.3	9.8	4.9
80°	26.9	22.0	19.5	19.5	12.2	7.3	4.9	4.9	7.3	2.4	2.4
82.5°	17.1	14.7	12.2	12.2	12.2	7.3	7.3	7.3	7.3	4.9	4.9
85°	9.8	7.3	4.9	4.9	2.4	4.9	0.0	2.4	2.4	0.0	0.0
87.5°	4.9	2.4	2.4	2.4	2.4	0.0	0.0	2.4	0.0	2.4	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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	5231.8	5231.8	5231.8	5231.8	5231.8	5231.8	5231.8	5231.8	5231.8	5231.8	5231.8
2.5°	5273.4	5283.2	5295.4	5305.2	5327.2	5332.1	5341.9	5351.7	5359.0	5366.3	5368.8
5°	5307.6	5344.3	5378.6	5415.2	5461.7	5493.5	5530.1	5561.9	5593.7	5620.6	5640.1
7.5°	5317.5	5373.6	5425.1	5488.5	5557.0	5615.7	5676.8	5737.9	5801.5	5850.4	5892.0
10°	5337.0	5405.4	5471.4	5547.2	5635.3	5713.5	5789.2	5869.9	5950.6	6019.1	6080.3
12.5°	5371.2	5447.0	5517.9	5601.1	5691.5	5779.5	5862.6	5953.1	6038.7	6114.5	6182.9
15°	5427.5	5498.3	5566.8	5645.0	5735.5	5816.2	5899.3	5987.3	6072.9	6151.1	6214.7
17.5°	5464.1	5530.1	5598.5	5669.5	5745.3	5818.6	5896.8	5975.1	6053.3	6124.2	6182.9
20°	5464.1	5527.7	5579.0	5642.6	5713.5	5777.1	5840.7	5909.1	5977.5	6036.2	6092.4
22.5°	5420.1	5481.2	5520.3	5569.3	5630.3	5684.2	5718.4	5794.2	5845.5	5896.8	5938.4
25°	5317.5	5361.5	5393.3	5427.5	5476.4	5513.0	5542.4	5586.4	5637.7	5657.3	5686.6
27.5°	5131.6	5163.4	5180.5	5187.9	5212.3	5231.8	5236.8	5256.3	5278.3	5283.2	5295.4
30°	4838.3	4840.7	4833.3	4830.9	4818.7	4804.1	4801.5	4799.1	4789.4	4779.6	4782.0
32.5°	4395.7	4383.5	4354.1	4322.5	4290.7	4256.4	4236.8	4212.4	4197.7	4183.1	4166.0
35°	3823.6	3794.3	3752.8	3713.6	3677.0	3650.0	3606.1	3591.4	3576.8	3557.2	3552.3
37.5°	3151.3	3134.2	3095.1	3065.8	3046.3	3034.0	3011.9	2997.4	2997.4	2990.0	2985.1
40°	2457.0	2452.1	2437.5	2444.8	2435.0	2439.9	2437.5	2432.5	2444.8	2444.8	2449.7
42.5°	1843.3	1845.9	1853.2	1858.0	1872.7	1875.1	1887.4	1887.4	1894.8	1902.0	1906.9
45°	1371.5	1381.3	1381.3	1391.1	1405.8	1408.2	1413.0	1415.6	1420.4	1432.7	1437.5
47.5°	1029.2	1031.7	1031.7	1034.2	1039.0	1043.9	1041.5	1043.9	1051.3	1046.3	1051.3
50°	760.4	762.8	755.4	748.1	755.4	755.4	753.0	745.7	753.0	743.3	748.1
52.5°	518.3	515.8	508.5	511.0	506.1	503.7	503.7	498.7	498.7	498.7	489.0
55°	327.7	327.7	322.7	322.7	320.3	315.4	313.0	310.4	308.0	305.6	305.6
57.5°	183.3	185.8	178.5	176.0	178.5	176.0	171.2	171.2	171.2	163.8	168.7
60°	100.2	97.8	95.4	92.9	90.5	92.9	92.9	88.1	88.1	88.1	90.5
62.5°	53.7	53.7	51.3	51.3	48.9	48.9	53.7	46.5	48.9	46.5	48.9
65°	29.4	36.6	26.9	26.9	34.2	31.8	29.4	29.4	31.8	26.9	29.4
67.5°	31.8	22.0	19.5	22.0	19.5	19.5	19.5	24.5	22.0	17.1	22.0
70°	14.7	17.1	17.1	12.2	19.5	9.8	17.1	9.8	14.7	12.2	14.7
72.5°	14.7	14.7	14.7	9.8	14.7	9.8	12.2	12.2	9.8	9.8	14.7
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°	4.9	4.9	2.4	2.4	2.4	2.4	4.9	4.9	4.9	0.0	2.4
80°	4.9	4.9	0.0	2.4	0.0	0.0	2.4	0.0	2.4	0.0	4.9
82.5°	2.4	4.9	2.4	2.4	4.9	4.9	4.9	2.4	2.4	2.4	2.4
85°	0.0	2.4	0.0	0.0	0.0	0.0	4.9	0.0	0.0	0.0	2.4
87.5°	0.0	2.4	0.0	0.0	0.0	0.0	2.4	2.4	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: P249714

CATALOG NUMBER: LD8B80D010 ER8B80835 8LBSW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	5231.8	5231.8	5231.8	5231.8
2.5°	5371.2	5373.6	5378.6	5376.1
5°	5654.8	5674.4	5684.2	5681.8
7.5°	5921.3	5955.6	5975.1	5975.1
10°	6126.6	6165.8	6195.1	6200.0
12.5°	6236.6	6280.7	6319.8	6310.0
15°	6268.4	6312.5	6351.5	6344.2
17.5°	6231.8	6275.8	6305.2	6300.2
20°	6131.6	6168.2	6197.6	6195.1
22.5°	5975.1	6006.9	6031.3	6028.8
25°	5711.0	5733.1	5752.6	5742.8
27.5°	5305.2	5312.5	5324.7	5310.1
30°	4764.9	4769.7	4774.7	4772.3
32.5°	4158.6	4156.1	4151.3	4146.3
35°	3545.0	3545.0	3547.4	3532.7
37.5°	2987.5	2985.1	2992.4	2985.1
40°	2454.6	2452.1	2461.9	2449.7
42.5°	1914.3	1921.6	1924.0	1924.0
45°	1440.0	1442.4	1444.8	1444.8
47.5°	1051.3	1053.7	1066.0	1051.3
50°	743.3	745.7	748.1	743.3
52.5°	491.4	493.9	491.4	484.0
55°	300.7	303.2	303.2	303.2
57.5°	161.3	163.8	163.8	161.3
60°	88.1	85.5	88.1	83.1
62.5°	46.5	51.3	48.9	44.0
65°	29.4	29.4	29.4	34.2
67.5°	24.5	19.5	22.0	17.1
70°	14.7	17.1	17.1	12.2
72.5°	12.2	12.2	12.2	14.7
75°	0.0	0.0	0.0	0.0
77.5°	4.9	4.9	4.9	2.4
80°	2.4	0.0	2.4	0.0
82.5°	2.4	2.4	4.9	2.4
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)