

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: P250260

Luminaire Tested: **LD8B80D010 ER8B80940 8LBSW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250260  
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 ER8B80940 8LBSW0WH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
90 CRI 4000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7600.0 lumens  
Efficiency: N/A  
Efficacy: 102.2 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

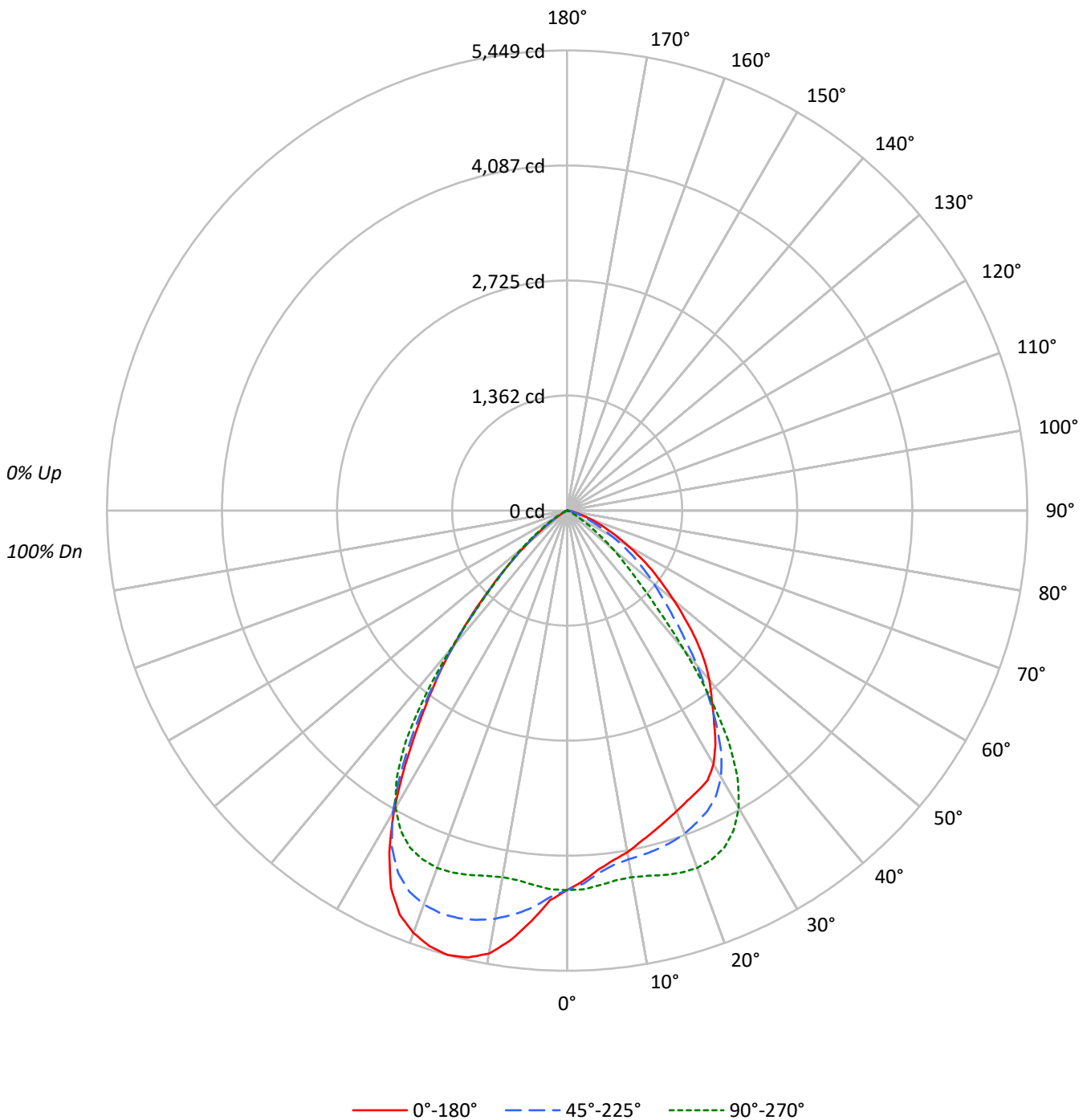
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	138575	138575	138575
5°	132019	137805	151068
10°	128614	138017	166752
15°	125698	142592	173967
20°	124314	147744	174620
25°	124606	149832	167834
30°	123448	144684	145955
35°	114073	125216	114228
40°	105413	86816	84702
45°	93864	52383	54119
50°	78978	33749	30626
55°	65707	18515	13999
60°	51287	8030	4403
65°	37847	3984	2145
70°	26318	2461	947
75°	16013	500	0
80°	11560	746	0
85°	7430	743	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	432.0	5.7
10°-20°	1293.0	17.0
20°-30°	1980.1	26.1
30°-40°	1941.1	25.5
40°-50°	1168.9	15.4
50°-60°	538.0	7.1
60°-70°	189.0	2.5
70°-80°	49.4	0.7
80°-90°	8.4	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°	3705.0	48.8
0°-40°	5646.2	74.3
0°-60°	7353.1	96.8
0°-90°	7600.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7600.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4494	4494	4494	4494	4494	
5°	4265	4305	4452	4719	4880	403
15°	3937	4150	4467	4996	5449	1112
25°	3662	3927	4404	4735	4933	1687
35°	3030	3072	3326	3135	3034	1898
45°	2152	1772	1201	1210	1241	1651
55°	1222	968	344	271	260	1091
65°	519	359	55	27	29	528
75°	134	78	4	0	0	163
85°	21	10	2	0	0	29
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°	4493.9	4493.9	4493.9	4493.9	4493.9	4493.9	4493.9	4493.9	4493.9	4493.9	4493.9
2.5°	4388.9	4393.1	4393.1	4393.1	4401.5	4403.7	4401.5	4403.7	4407.8	4422.5	4428.8
5°	4265.0	4258.7	4262.9	4260.8	4271.3	4277.6	4273.4	4279.7	4294.4	4304.9	4315.4
7.5°	4176.8	4176.8	4176.8	4181.0	4187.3	4199.9	4197.9	4202.0	4216.7	4231.4	4246.1
10°	4107.5	4105.5	4105.5	4115.9	4124.3	4139.0	4143.2	4155.8	4174.7	4193.6	4210.4
12.5°	4017.2	4019.4	4029.8	4040.4	4059.2	4082.3	4094.9	4111.8	4141.2	4172.6	4191.5
15°	3937.4	3939.5	3948.0	3968.9	3992.0	4019.4	4046.6	4073.9	4109.6	4149.5	4183.2
17.5°	3859.7	3861.8	3868.1	3891.3	3920.7	3956.4	3987.8	4023.5	4069.8	4115.9	4157.9
20°	3788.3	3786.2	3796.7	3817.7	3855.6	3889.1	3920.7	3962.7	4013.1	4069.8	4118.0
22.5°	3719.0	3719.0	3729.5	3750.5	3784.2	3817.7	3851.3	3895.4	3945.8	4000.4	4057.1
25°	3662.3	3660.2	3674.9	3685.5	3710.6	3744.2	3779.9	3815.6	3866.0	3927.0	3981.5
27.5°	3601.4	3599.4	3601.4	3614.1	3637.1	3662.3	3689.6	3721.2	3763.2	3813.6	3866.0
30°	3467.0	3469.1	3469.1	3479.7	3492.3	3519.5	3534.2	3565.7	3603.5	3645.5	3691.8
32.5°	3267.5	3269.6	3269.6	3273.9	3284.3	3296.9	3309.5	3332.6	3362.0	3397.7	3439.7
35°	3030.3	3030.3	3028.1	3030.3	3036.6	3036.6	3047.0	3036.6	3051.3	3072.3	3103.7
37.5°	2811.9	2807.6	2803.5	2799.2	2792.9	2782.5	2767.8	2742.5	2736.2	2727.8	2729.9
40°	2618.7	2616.6	2604.0	2593.4	2572.4	2547.3	2511.6	2467.5	2431.8	2389.8	2354.1
42.5°	2404.5	2402.3	2391.9	2372.9	2349.9	2312.1	2255.4	2196.6	2125.2	2062.2	1997.1
45°	2152.4	2158.7	2144.0	2123.0	2095.7	2060.0	1997.1	1925.6	1854.2	1772.4	1690.4
47.5°	1889.9	1887.8	1877.4	1864.8	1841.7	1806.0	1764.0	1686.3	1610.6	1535.1	1451.1
50°	1646.3	1638.0	1633.7	1621.2	1606.5	1577.1	1532.9	1469.9	1402.8	1331.4	1253.7
52.5°	1415.4	1415.4	1404.8	1396.5	1383.8	1360.8	1323.0	1272.6	1215.9	1148.6	1066.8
55°	1222.2	1218.0	1207.5	1197.0	1184.3	1169.7	1136.1	1094.1	1033.2	968.1	896.7
57.5°	1016.4	1014.2	1010.1	997.5	991.2	976.5	938.7	896.7	844.2	787.5	728.7
60°	831.6	823.2	814.7	806.4	795.9	781.2	756.0	720.3	676.2	625.8	567.0
62.5°	665.7	678.3	653.1	653.1	632.1	619.5	596.4	575.4	529.2	483.0	432.6
65°	518.7	518.7	508.2	499.8	487.2	472.5	449.4	428.4	394.8	359.1	323.4
67.5°	396.9	394.8	384.3	375.9	365.4	357.0	340.2	315.0	289.8	260.4	231.0
70°	291.9	289.8	287.7	273.0	264.6	254.1	241.5	224.7	205.8	184.8	157.5
72.5°	210.0	210.0	203.7	197.4	189.0	180.6	168.0	157.5	140.7	126.0	107.1
75°	134.4	132.3	132.3	121.8	121.8	109.2	100.8	94.5	86.1	77.7	60.9
77.5°	96.6	94.5	92.4	88.2	84.0	79.8	73.5	65.1	58.8	50.4	44.1
80°	65.1	60.9	58.8	58.8	52.5	50.4	52.5	39.9	37.8	31.5	27.3
82.5°	39.9	39.9	37.8	37.8	35.7	33.6	27.3	27.3	25.2	23.1	18.9
85°	21.0	27.3	18.9	21.0	18.9	21.0	18.9	14.7	12.6	10.5	10.5
87.5°	12.6	8.4	8.4	12.6	10.5	8.4	8.4	8.4	6.3	4.2	4.2
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	4493.9	4493.9	4493.9	4493.9	4493.9	4493.9	4493.9	4493.9	4493.9	4493.9	4493.9
2.5°	4424.7	4439.4	4437.2	4456.1	4462.4	4477.1	4477.1	4487.6	4493.9	4508.6	4521.2
5°	4319.6	4342.7	4349.0	4372.1	4391.0	4414.1	4428.8	4451.9	4472.9	4504.4	4533.8
7.5°	4254.6	4273.4	4286.0	4313.3	4334.3	4359.5	4384.7	4416.2	4445.6	4483.4	4525.4
10°	4223.0	4248.2	4267.1	4294.4	4319.6	4347.0	4372.1	4407.8	4441.4	4489.7	4535.9
12.5°	4214.6	4244.0	4267.1	4304.9	4330.1	4359.5	4388.9	4428.8	4464.5	4514.9	4567.5
15°	4214.6	4254.6	4286.0	4328.0	4357.4	4395.2	4426.7	4466.6	4506.5	4559.0	4609.4
17.5°	4206.2	4254.6	4294.4	4342.7	4380.5	4418.4	4458.2	4496.1	4538.0	4588.5	4645.1
20°	4172.6	4233.6	4281.8	4338.5	4378.4	4420.4	4460.4	4502.3	4546.4	4598.9	4647.2
22.5°	4113.8	4185.2	4239.9	4300.7	4347.0	4388.9	4428.8	4470.8	4519.1	4569.5	4619.9
25°	4036.1	4103.3	4162.2	4225.1	4271.3	4317.5	4355.3	4403.7	4447.7	4496.1	4535.9
27.5°	3918.5	3989.9	4046.6	4111.8	4153.7	4197.9	4229.3	4269.2	4311.3	4351.1	4382.7
30°	3742.2	3807.2	3866.0	3924.8	3966.8	3998.4	4031.9	4063.4	4090.8	4118.0	4145.3
32.5°	3483.8	3542.7	3599.4	3653.9	3687.5	3714.8	3740.0	3758.9	3773.6	3788.3	3790.4
35°	3129.0	3177.2	3212.9	3261.2	3292.8	3317.9	3317.9	3326.3	3324.2	3317.9	3311.6
37.5°	2732.1	2750.9	2765.6	2784.5	2786.6	2786.6	2774.1	2763.5	2746.8	2742.5	2729.9
40°	2318.4	2293.1	2274.2	2249.1	2234.4	2202.8	2175.6	2156.7	2129.4	2125.2	2121.0
42.5°	1925.6	1866.8	1814.4	1770.3	1719.9	1675.7	1635.9	1606.5	1585.5	1583.3	1585.5
45°	1606.5	1539.3	1461.5	1400.7	1344.0	1289.4	1236.9	1201.2	1182.3	1178.0	1182.3
47.5°	1365.0	1287.3	1211.7	1142.3	1081.5	1020.6	968.1	919.8	896.7	890.4	888.3
50°	1173.9	1094.1	1014.2	942.8	875.7	814.7	749.7	703.5	674.1	663.6	655.2
52.5°	987.0	915.6	833.7	760.2	693.0	621.6	554.4	501.8	472.5	459.9	451.5
55°	823.2	751.8	676.2	604.8	533.4	462.0	394.8	344.4	312.9	298.2	287.7
57.5°	657.3	590.1	525.0	453.6	394.8	325.5	258.3	214.2	186.9	170.1	161.7
60°	508.2	455.7	399.0	340.2	283.5	226.8	172.2	130.2	109.2	96.6	86.1
62.5°	384.3	340.2	302.4	252.0	207.9	159.6	117.6	84.0	65.1	54.6	50.4
65°	277.2	243.6	210.0	178.5	147.0	111.3	79.8	54.6	37.8	31.5	29.4
67.5°	197.4	170.1	144.9	123.9	100.8	79.8	56.7	37.8	29.4	25.2	23.1
70°	138.6	117.6	100.8	81.9	67.2	52.5	44.1	27.3	16.8	18.9	14.7
72.5°	92.4	77.7	69.3	56.7	46.2	37.8	27.3	18.9	18.9	14.7	12.6
75°	50.4	46.2	35.7	27.3	23.1	21.0	8.4	4.2	2.1	6.3	2.1
77.5°	35.7	31.5	27.3	23.1	18.9	14.7	8.4	8.4	6.3	8.4	4.2
80°	23.1	18.9	16.8	16.8	10.5	6.3	4.2	4.2	6.3	2.1	2.1
82.5°	14.7	12.6	10.5	10.5	10.5	6.3	6.3	6.3	6.3	4.2	4.2
85°	8.4	6.3	4.2	4.2	2.1	4.2	0.0	2.1	2.1	0.0	0.0
87.5°	4.2	2.1	2.1	2.1	2.1	0.0	0.0	2.1	0.0	2.1	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°	4493.9	4493.9	4493.9	4493.9	4493.9	4493.9	4493.9	4493.9	4493.9	4493.9	4493.9
2.5°	4529.6	4538.0	4548.5	4556.9	4575.8	4580.0	4588.5	4596.8	4603.2	4609.4	4611.5
5°	4559.0	4590.5	4619.9	4651.4	4691.3	4718.6	4750.1	4777.4	4804.7	4827.8	4844.6
7.5°	4567.5	4615.7	4659.9	4714.4	4773.2	4823.6	4876.1	4928.6	4983.2	5025.2	5060.9
10°	4584.2	4643.0	4699.7	4764.8	4840.4	4907.6	4972.7	5042.0	5111.3	5170.1	5222.6
12.5°	4613.6	4678.7	4739.6	4811.0	4888.7	4964.3	5035.7	5113.4	5186.9	5252.0	5310.8
15°	4661.9	4722.8	4781.6	4848.8	4926.5	4995.8	5067.2	5142.8	5216.3	5283.5	5338.1
17.5°	4693.4	4750.1	4808.9	4869.8	4934.9	4997.9	5065.1	5132.3	5199.5	5260.4	5310.8
20°	4693.4	4748.0	4792.1	4846.7	4907.6	4962.2	5016.8	5075.6	5134.4	5184.8	5233.1
22.5°	4655.6	4708.1	4741.7	4783.7	4836.2	4882.4	4911.8	4976.9	5021.0	5065.1	5100.8
25°	4567.5	4605.2	4632.5	4661.9	4703.9	4735.4	4760.6	4798.4	4842.5	4859.3	4884.5
27.5°	4407.8	4435.1	4449.8	4456.1	4477.1	4493.9	4498.1	4514.9	4533.8	4538.0	4548.5
30°	4155.8	4157.9	4151.6	4149.5	4139.0	4126.5	4124.3	4122.2	4113.8	4105.5	4107.5
32.5°	3775.7	3765.2	3740.0	3712.8	3685.5	3656.1	3639.2	3618.2	3605.6	3593.1	3578.4
35°	3284.3	3259.2	3223.5	3189.8	3158.4	3135.2	3097.4	3084.8	3072.3	3055.4	3051.3
37.5°	2706.8	2692.1	2658.5	2633.4	2616.6	2606.0	2587.1	2574.6	2574.6	2568.3	2564.0
40°	2110.4	2106.3	2093.7	2100.0	2091.6	2095.7	2093.7	2089.4	2100.0	2100.0	2104.2
42.5°	1583.3	1585.5	1591.8	1596.0	1608.6	1610.6	1621.2	1621.2	1627.5	1633.7	1638.0
45°	1178.0	1186.5	1186.5	1194.9	1207.5	1209.6	1213.7	1215.9	1220.0	1230.6	1234.7
47.5°	884.1	886.1	886.1	888.3	892.5	896.7	894.6	896.7	903.0	898.8	903.0
50°	653.1	655.2	648.9	642.6	648.9	648.9	646.8	640.5	646.8	638.4	642.6
52.5°	445.2	443.1	436.8	438.9	434.7	432.6	432.6	428.4	428.4	428.4	420.0
55°	281.4	281.4	277.2	277.2	275.1	270.9	268.8	266.7	264.6	262.5	262.5
57.5°	157.5	159.6	153.3	151.2	153.3	151.2	147.0	147.0	147.0	140.7	144.9
60°	86.1	84.0	81.9	79.8	77.7	79.8	79.8	75.6	75.6	75.6	77.7
62.5°	46.2	46.2	44.1	44.1	42.0	42.0	46.2	39.9	42.0	39.9	42.0
65°	25.2	31.5	23.1	23.1	29.4	27.3	25.2	25.2	27.3	23.1	25.2
67.5°	27.3	18.9	16.8	18.9	16.8	16.8	16.8	21.0	18.9	14.7	18.9
70°	12.6	14.7	14.7	10.5	16.8	8.4	14.7	8.4	12.6	10.5	12.6
72.5°	12.6	12.6	12.6	8.4	12.6	8.4	10.5	10.5	8.4	8.4	12.6
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°	4.2	4.2	2.1	2.1	2.1	2.1	4.2	4.2	4.2	0.0	2.1
80°	4.2	4.2	0.0	2.1	0.0	0.0	2.1	0.0	2.1	0.0	4.2
82.5°	2.1	4.2	2.1	2.1	4.2	4.2	4.2	2.1	2.1	2.1	2.1
85°	0.0	2.1	0.0	0.0	0.0	0.0	4.2	0.0	0.0	0.0	2.1
87.5°	0.0	2.1	0.0	0.0	0.0	0.0	2.1	2.1	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: P250260

CATALOG NUMBER: LD8B80D010 ER8B80940 8LBSW0WH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	4493.9	4493.9	4493.9	4493.9
2.5°	4613.6	4615.7	4619.9	4617.8
5°	4857.2	4874.0	4882.4	4880.4
7.5°	5086.1	5115.5	5132.3	5132.3
10°	5262.5	5296.1	5321.3	5325.5
12.5°	5357.0	5394.8	5428.4	5420.0
15°	5384.3	5422.1	5455.7	5449.4
17.5°	5352.8	5390.6	5415.8	5411.6
20°	5266.7	5298.2	5323.4	5321.3
22.5°	5132.3	5159.6	5180.6	5178.5
25°	4905.5	4924.4	4941.2	4932.8
27.5°	4556.9	4563.2	4573.7	4561.1
30°	4092.8	4097.0	4101.2	4099.1
32.5°	3572.1	3569.9	3565.7	3561.5
35°	3045.0	3045.0	3047.0	3034.4
37.5°	2566.1	2564.0	2570.3	2564.0
40°	2108.3	2106.3	2114.7	2104.2
42.5°	1644.3	1650.6	1652.7	1652.7
45°	1236.9	1239.0	1241.0	1241.0
47.5°	903.0	905.1	915.6	903.0
50°	638.4	640.5	642.6	638.4
52.5°	422.1	424.2	422.1	415.8
55°	258.3	260.4	260.4	260.4
57.5°	138.6	140.7	140.7	138.6
60°	75.6	73.5	75.6	71.4
62.5°	39.9	44.1	42.0	37.8
65°	25.2	25.2	25.2	29.4
67.5°	21.0	16.8	18.9	14.7
70°	12.6	14.7	14.7	10.5
72.5°	10.5	10.5	10.5	12.6
75°	0.0	0.0	0.0	0.0
77.5°	4.2	4.2	4.2	2.1
80°	2.1	0.0	2.1	0.0
82.5°	2.1	2.1	4.2	2.1
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)