

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: P250283

Luminaire Tested: **LD8B100D010 ER8B1009730 8LBSW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250283  
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: LD8B100D010 ER8B1009730 8LBSW0WH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
97 CRI 3000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8168.0 lumens  
Efficiency: N/A  
Efficacy: 76.8 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

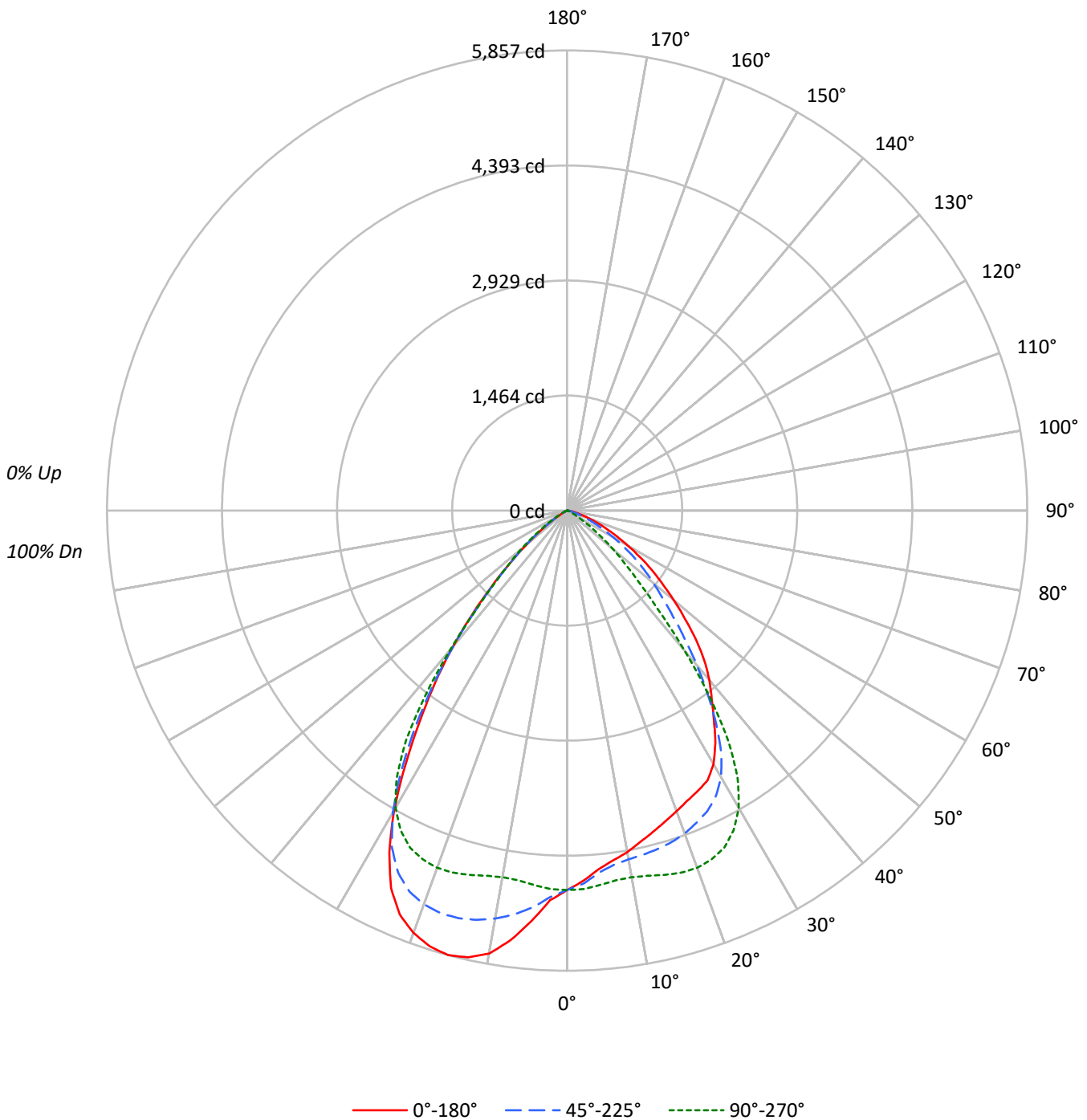
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P250283

CATALOG NUMBER: LD8B100D010 ER8B1009730 8LBSW0WH

### Luminous Intensity Polar Plot





TEST NUMBER: P250283

CATALOG NUMBER: LD8B100D010 ER8B1009730 8LBSW0WH

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



TEST NUMBER: P250283

CATALOG NUMBER: LD8B100D010 ER8B1009730 8LBSW0WH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	464.3	5.7
10°-20°	1389.6	17.0
20°-30°	2128.0	26.1
30°-40°	2086.2	25.5
40°-50°	1256.3	15.4
50°-60°	578.2	7.1
60°-70°	203.1	2.5
70°-80°	53.1	0.7
80°-90°	9.0	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°	3982.0	48.8
0°-40°	6068.1	74.3
0°-60°	7902.7	96.8
0°-90°	8168.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8168.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4830	4830	4830	4830	4830	
5°	4584	4627	4785	5071	5245	433
15°	4232	4460	4800	5369	5857	1196
25°	3936	4220	4733	5089	5302	1813
35°	3257	3302	3575	3370	3261	2040
45°	2313	1905	1291	1300	1334	1774
55°	1314	1040	370	291	280	1172
65°	558	386	59	29	32	568
75°	144	84	5	0	0	175
85°	23	11	2	0	0	31
90°	0	0	0	0	0	



TEST NUMBER: P250283

CATALOG NUMBER: LD8B100D010 ER8B1009730 8LBSW0WH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4829.8	4829.8	4829.8	4829.8	4829.8	4829.8	4829.8	4829.8	4829.8	4829.8	4829.8
2.5°	4716.9	4721.4	4721.4	4721.4	4730.4	4732.8	4730.4	4732.8	4737.2	4753.0	4759.8
5°	4583.8	4577.0	4581.5	4579.2	4590.5	4597.3	4592.8	4599.6	4615.4	4626.7	4637.9
7.5°	4489.0	4489.0	4489.0	4493.5	4500.3	4513.8	4511.6	4516.0	4531.8	4547.6	4563.4
10°	4414.5	4412.3	4412.3	4423.5	4432.5	4448.3	4452.9	4466.4	4486.7	4507.0	4525.1
12.5°	4317.4	4319.8	4331.0	4342.3	4362.6	4387.4	4400.9	4419.1	4450.6	4484.5	4504.8
15°	4231.7	4233.9	4243.0	4265.5	4290.4	4319.8	4349.0	4378.4	4416.7	4459.7	4495.8
17.5°	4148.2	4150.4	4157.2	4182.1	4213.7	4252.0	4285.8	4324.2	4373.9	4423.5	4468.7
20°	4071.4	4069.2	4080.5	4103.0	4143.7	4179.8	4213.7	4258.8	4313.0	4373.9	4425.8
22.5°	3996.9	3996.9	4008.3	4030.9	4067.0	4103.0	4139.2	4186.5	4240.7	4299.4	4360.4
25°	3936.0	3933.8	3949.6	3960.9	3987.9	4024.1	4062.4	4100.8	4155.0	4220.5	4279.1
27.5°	3870.6	3868.4	3870.6	3884.2	3909.0	3936.0	3965.4	3999.3	4044.4	4098.6	4155.0
30°	3726.2	3728.4	3728.4	3739.7	3753.3	3782.5	3798.3	3832.2	3872.8	3918.0	3967.7
32.5°	3511.7	3514.0	3514.0	3518.5	3529.8	3543.3	3556.9	3581.7	3613.3	3651.6	3696.8
35°	3256.7	3256.7	3254.4	3256.7	3263.5	3263.5	3274.8	3263.5	3279.3	3301.9	3335.7
37.5°	3022.0	3017.4	3013.0	3008.4	3001.7	2990.4	2974.6	2947.5	2940.7	2931.7	2933.9
40°	2814.4	2812.1	2798.6	2787.3	2764.7	2737.6	2699.3	2651.9	2613.5	2568.4	2530.0
42.5°	2584.2	2581.9	2570.6	2550.3	2525.5	2484.9	2423.9	2360.8	2284.0	2216.3	2146.4
45°	2313.3	2320.1	2304.3	2281.7	2252.4	2214.0	2146.4	2069.5	1992.8	1904.8	1816.8
47.5°	2031.2	2028.9	2017.7	2004.1	1979.3	1941.0	1895.8	1812.3	1731.0	1649.8	1559.5
50°	1769.4	1760.4	1755.8	1742.4	1726.6	1695.0	1647.5	1579.8	1507.6	1430.9	1347.4
52.5°	1521.2	1521.2	1509.8	1500.8	1487.3	1462.5	1421.9	1367.7	1306.8	1234.5	1146.5
55°	1313.5	1309.0	1297.8	1286.4	1272.9	1257.1	1221.0	1175.9	1110.4	1040.4	963.7
57.5°	1092.4	1090.0	1085.6	1072.0	1065.2	1049.4	1008.9	963.7	907.3	846.4	783.1
60°	893.8	884.7	875.6	866.6	855.4	839.6	812.5	774.1	726.7	672.6	609.4
62.5°	715.5	729.0	701.9	701.9	679.3	665.8	641.0	618.4	568.7	519.1	464.9
65°	557.5	557.5	546.1	537.1	523.6	507.8	483.0	460.4	424.3	385.9	347.5
67.5°	426.6	424.3	413.0	404.0	392.7	383.7	365.6	338.5	311.5	279.9	248.2
70°	313.7	311.5	309.2	293.4	284.4	273.1	259.6	241.5	221.2	198.6	169.3
72.5°	225.6	225.6	219.0	212.2	203.2	194.1	180.6	169.3	151.2	135.4	115.1
75°	144.5	142.2	142.2	130.9	130.9	117.3	108.3	101.5	92.5	83.5	65.5
77.5°	103.9	101.5	99.3	94.8	90.3	85.7	79.0	70.0	63.2	54.2	47.4
80°	70.0	65.5	63.2	63.2	56.4	54.2	56.4	42.9	40.6	33.8	29.4
82.5°	42.9	42.9	40.6	40.6	38.4	36.1	29.4	29.4	27.1	24.8	20.3
85°	22.6	29.4	20.3	22.6	20.3	22.6	20.3	15.8	13.6	11.2	11.2
87.5°	13.6	9.0	9.0	13.6	11.2	9.0	9.0	9.0	6.8	4.6	4.6
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: P250283

CATALOG NUMBER: LD8B100D010 ER8B1009730 8LBSW0WH

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	4829.8	4829.8	4829.8	4829.8	4829.8	4829.8	4829.8	4829.8	4829.8	4829.8	4829.8
2.5°	4755.3	4771.1	4768.8	4789.2	4795.9	4811.7	4811.7	4823.0	4829.8	4845.5	4859.1
5°	4642.5	4667.3	4674.1	4698.9	4719.2	4744.0	4759.8	4784.6	4807.2	4841.1	4872.7
7.5°	4572.5	4592.8	4606.3	4635.7	4658.3	4685.3	4712.4	4746.2	4777.8	4818.5	4863.7
10°	4538.6	4565.7	4586.0	4615.4	4642.5	4671.8	4698.9	4737.2	4773.4	4825.3	4874.9
12.5°	4529.6	4561.2	4586.0	4626.7	4653.7	4685.3	4716.9	4759.8	4798.2	4852.3	4908.8
15°	4529.6	4561.2	4586.0	4626.7	4653.7	4685.3	4716.9	4759.8	4798.2	4852.3	4908.8
17.5°	4520.6	4572.5	4615.4	4667.3	4707.9	4748.6	4791.4	4832.1	4877.1	4931.4	4992.2
20°	4484.5	4550.0	4601.8	4662.7	4705.6	4750.8	4793.7	4838.8	4886.2	4942.6	4994.6
22.5°	4421.3	4498.0	4556.7	4622.1	4671.8	4716.9	4759.8	4805.0	4856.9	4911.0	4965.2
25°	4337.8	4410.0	4473.2	4540.8	4590.5	4640.2	4680.8	4732.8	4780.1	4832.1	4874.9
27.5°	4211.3	4288.1	4349.0	4419.1	4464.1	4511.6	4545.4	4588.3	4633.5	4676.3	4710.2
30°	4021.8	4091.8	4155.0	4218.1	4263.3	4297.2	4333.2	4367.1	4396.5	4425.8	4455.1
32.5°	3744.2	3807.4	3868.4	3927.0	3963.1	3992.5	4019.5	4039.9	4055.7	4071.4	4073.7
35°	3362.8	3414.7	3453.0	3505.0	3538.9	3565.9	3565.9	3574.9	3572.7	3565.9	3559.1
37.5°	2936.3	2956.5	2972.3	2992.6	2994.9	2994.9	2981.4	2970.1	2952.0	2947.5	2933.9
40°	2491.7	2464.5	2444.2	2417.2	2401.4	2367.5	2338.2	2317.8	2288.5	2284.0	2279.5
42.5°	2069.5	2006.4	1950.0	1902.6	1848.4	1801.0	1758.1	1726.6	1704.0	1701.7	1704.0
45°	1726.6	1654.3	1570.8	1505.4	1444.4	1385.7	1329.3	1291.0	1270.6	1266.1	1270.6
47.5°	1467.0	1383.5	1302.2	1227.7	1162.3	1096.8	1040.4	988.5	963.7	956.9	954.7
50°	1261.6	1175.9	1090.0	1013.3	941.1	875.6	805.7	756.1	724.5	713.2	704.2
52.5°	1060.8	984.0	896.0	817.0	744.7	668.0	595.8	539.4	507.8	494.3	485.2
55°	884.7	808.0	726.7	650.0	573.3	496.5	424.3	370.1	336.3	320.5	309.2
57.5°	706.4	634.2	564.3	487.5	424.3	349.8	277.6	230.2	200.8	182.8	173.8
60°	546.1	489.7	428.8	365.6	304.7	243.8	185.0	139.9	117.3	103.9	92.5
62.5°	413.0	365.6	325.0	270.8	223.4	171.5	126.4	90.3	70.0	58.7	54.2
65°	297.9	261.8	225.6	191.8	158.0	119.7	85.7	58.7	40.6	33.8	31.6
67.5°	212.2	182.8	155.7	133.1	108.3	85.7	60.9	40.6	31.6	27.1	24.8
70°	148.9	126.4	108.3	88.1	72.2	56.4	47.4	29.4	18.0	20.3	15.8
72.5°	99.3	83.5	74.5	60.9	49.6	40.6	29.4	20.3	20.3	15.8	13.6
75°	54.2	49.6	38.4	29.4	24.8	22.6	9.0	4.6	2.2	6.8	2.2
77.5°	38.4	33.8	29.4	24.8	20.3	15.8	9.0	9.0	6.8	9.0	4.6
80°	24.8	20.3	18.0	18.0	11.2	6.8	4.6	4.6	6.8	2.2	2.2
82.5°	15.8	13.6	11.2	11.2	11.2	6.8	6.8	6.8	6.8	4.6	4.6
85°	9.0	6.8	4.6	4.6	2.2	4.6	0.0	2.2	2.2	0.0	0.0
87.5°	4.6	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



TEST NUMBER: P250283

CATALOG NUMBER: LD8B100D010 ER8B1009730 8LBSW0WH

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4829.8	4829.8	4829.8	4829.8	4829.8	4829.8	4829.8	4829.8	4829.8	4829.8	4829.8
2.5°	4868.1	4877.1	4888.5	4897.5	4917.8	4922.3	4931.4	4940.4	4947.2	4953.9	4956.2
5°	4899.7	4933.6	4965.2	4999.0	5041.9	5071.3	5105.1	5134.5	5163.8	5188.6	5206.6
7.5°	4908.8	4960.6	5008.1	5066.7	5129.9	5184.2	5240.5	5296.9	5355.6	5400.8	5439.2
10°	4926.8	4990.0	5050.9	5120.9	5202.2	5274.4	5344.3	5418.8	5493.3	5556.5	5613.0
12.5°	4958.4	5028.4	5093.9	5170.6	5254.1	5335.3	5412.0	5495.5	5574.6	5644.5	5707.7
15°	5010.3	5075.7	5139.0	5211.2	5294.7	5369.2	5445.9	5527.1	5606.2	5678.4	5737.1
17.5°	5044.2	5105.1	5168.3	5233.8	5303.7	5371.4	5443.6	5515.9	5588.1	5653.6	5707.7
20°	5044.2	5102.9	5150.2	5209.0	5274.4	5333.1	5391.8	5454.9	5518.1	5572.3	5624.2
22.5°	5003.6	5060.0	5096.1	5141.2	5197.6	5247.3	5278.9	5348.9	5396.2	5443.6	5482.0
25°	4908.8	4949.4	4978.8	5010.3	5055.5	5089.3	5116.4	5157.0	5204.4	5222.5	5249.6
27.5°	4737.2	4766.6	4782.4	4789.2	4811.7	4829.8	4834.3	4852.3	4872.7	4877.1	4888.5
30°	4466.4	4468.7	4461.9	4459.7	4448.3	4434.9	4432.5	4430.3	4421.3	4412.3	4414.5
32.5°	4057.9	4046.6	4019.5	3990.3	3960.9	3929.3	3911.2	3888.6	3875.1	3861.6	3845.8
35°	3529.8	3502.7	3464.4	3428.2	3394.4	3369.5	3328.9	3315.4	3301.9	3283.8	3279.3
37.5°	2909.1	2893.3	2857.2	2830.2	2812.1	2800.8	2780.5	2767.0	2767.0	2760.2	2755.7
40°	2268.1	2263.7	2250.1	2256.9	2247.9	2252.4	2250.1	2245.6	2256.9	2256.9	2261.5
42.5°	1701.7	1704.0	1710.8	1715.2	1728.8	1731.0	1742.4	1742.4	1749.1	1755.8	1760.4
45°	1266.1	1275.2	1275.2	1284.2	1297.8	1300.0	1304.4	1306.8	1311.2	1322.6	1327.0
47.5°	950.1	952.4	952.4	954.7	959.2	963.7	961.5	963.7	970.5	965.9	970.5
50°	701.9	704.2	697.4	690.6	697.4	697.4	695.1	688.4	695.1	686.1	690.6
52.5°	478.5	476.2	469.4	471.7	467.2	464.9	464.9	460.4	460.4	460.4	451.4
55°	302.5	302.5	297.9	297.9	295.7	291.1	288.9	286.6	284.4	282.1	282.1
57.5°	169.3	171.5	164.8	162.5	164.8	162.5	158.0	158.0	158.0	151.2	155.7
60°	92.5	90.3	88.1	85.7	83.5	85.7	85.7	81.3	81.3	81.3	83.5
62.5°	49.6	49.6	47.4	47.4	45.1	45.1	49.6	42.9	45.1	42.9	45.1
65°	27.1	33.8	24.8	24.8	31.6	29.4	27.1	27.1	29.4	24.8	27.1
67.5°	29.4	20.3	18.0	20.3	18.0	18.0	18.0	22.6	20.3	15.8	20.3
70°	13.6	15.8	15.8	11.2	18.0	9.0	15.8	9.0	13.6	11.2	13.6
72.5°	13.6	13.6	13.6	9.0	13.6	9.0	11.2	11.2	9.0	9.0	13.6
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°	4.6	4.6	2.2	2.2	2.2	2.2	4.6	4.6	4.6	0.0	2.2
80°	4.6	4.6	0.0	2.2	0.0	0.0	2.2	0.0	2.2	0.0	4.6
82.5°	2.2	4.6	2.2	2.2	4.6	4.6	4.6	2.2	2.2	2.2	2.2
85°	0.0	2.2	0.0	0.0	0.0	0.0	4.6	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: P250283

CATALOG NUMBER: LD8B100D010 ER8B1009730 8LBSW0WH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	4829.8	4829.8	4829.8	4829.8
2.5°	4958.4	4960.6	4965.2	4963.0
5°	5220.2	5238.3	5247.3	5245.1
7.5°	5466.2	5497.9	5515.9	5515.9
10°	5655.8	5691.9	5719.0	5723.5
12.5°	5757.3	5798.0	5834.1	5825.0
15°	5786.7	5827.4	5863.4	5856.6
17.5°	5752.9	5793.5	5820.6	5816.0
20°	5660.3	5694.2	5721.3	5719.0
22.5°	5515.9	5545.2	5567.8	5565.5
25°	5272.1	5292.5	5310.5	5301.5
27.5°	4897.5	4904.3	4915.5	4902.0
30°	4398.7	4403.2	4407.7	4405.5
32.5°	3839.0	3836.7	3832.2	3827.7
35°	3272.5	3272.5	3274.8	3261.2
37.5°	2757.9	2755.7	2762.4	2755.7
40°	2265.9	2263.7	2272.7	2261.5
42.5°	1767.2	1773.9	1776.2	1776.2
45°	1329.3	1331.6	1333.8	1333.8
47.5°	970.5	972.7	984.0	970.5
50°	686.1	688.4	690.6	686.1
52.5°	453.6	455.9	453.6	446.8
55°	277.6	279.9	279.9	279.9
57.5°	148.9	151.2	151.2	148.9
60°	81.3	79.0	81.3	76.7
62.5°	42.9	47.4	45.1	40.6
65°	27.1	27.1	27.1	31.6
67.5°	22.6	18.0	20.3	15.8
70°	13.6	15.8	15.8	11.2
72.5°	11.2	11.2	11.2	13.6
75°	0.0	0.0	0.0	0.0
77.5°	4.6	4.6	4.6	2.2
80°	2.2	0.0	2.2	0.0
82.5°	2.2	2.2	4.6	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)