

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: FAIL-SAFE

Report Number: P735620

Luminaire Tested: **4APN6-34-B2750-W2D-CP125-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P735620  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P709119)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 4APN6-34-B2750-W2D-CP125-3500K  
Description: 4FT 3400 AMBIENT LUMEN OUTPUT APN WITH BIO UP LEDS AT 3500K CCT, AND CP125 LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

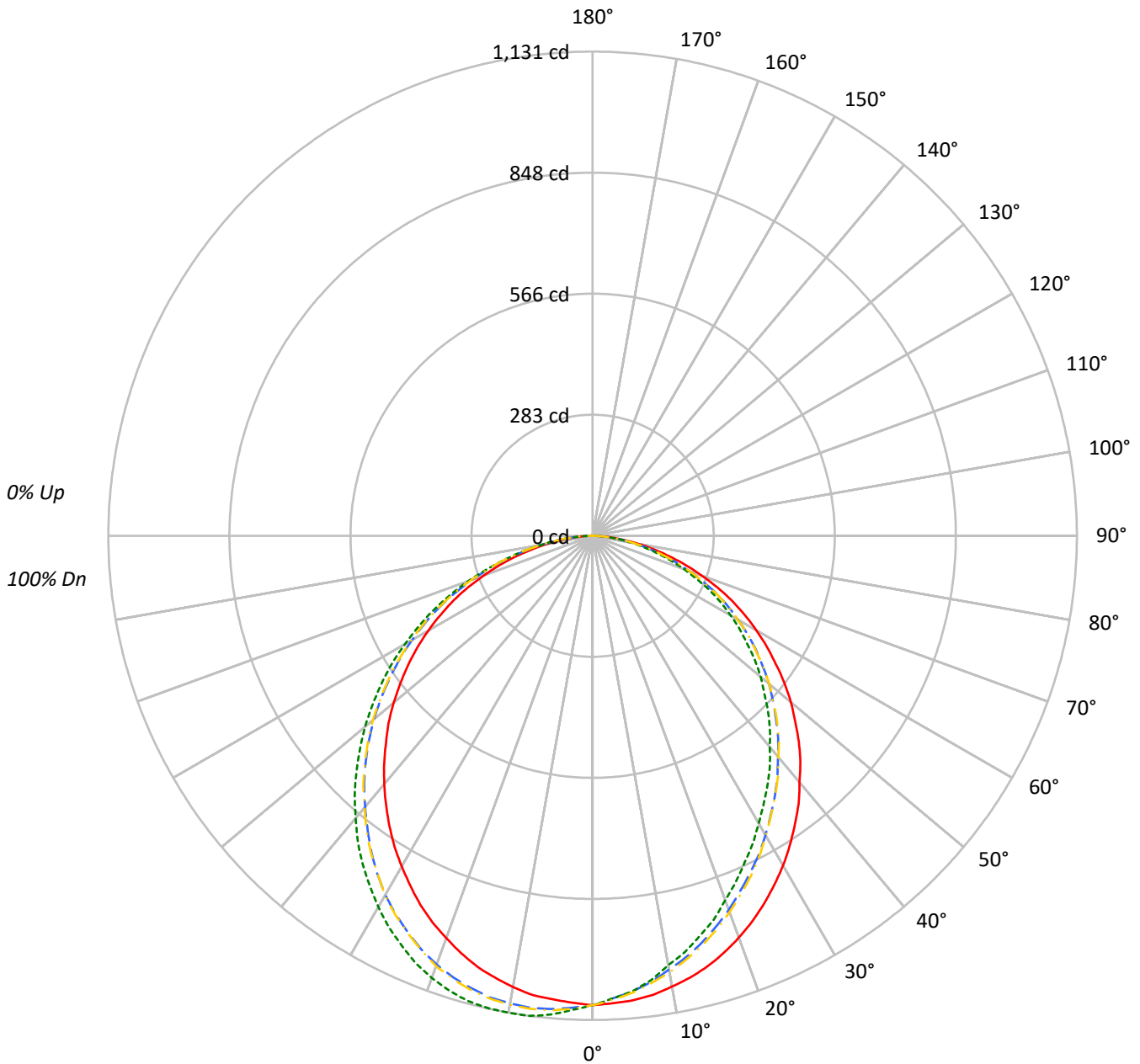
Lumens per Lamp: N/A  
Luminaire Lumens: 2941.0 lumens  
Efficiency: N/A  
Efficacy: 68.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 42.7  
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									
RC	80									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	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84																			
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	70																			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59																			
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51																			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44																			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	41	38																			
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34																			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30																			
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27																			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	10117	10117	10117	10117
5°	10088	9892	10064	10398
10°	10017	9541	10030	10599
15°	9940	9242	9954	10747
20°	9806	8891	9816	10791
25°	9648	8562	9685	10747
30°	9475	8261	9502	10664
35°	9276	8019	9318	10549
40°	9053	7754	9114	10369
45°	8886	7560	8903	10180
50°	8672	7353	8705	9953
55°	8400	7084	8459	9679
60°	8149	6868	8173	9339
65°	7824	6580	7824	8938
70°	7294	6091	7262	8330
75°	6634	5529	6545	7475
80°	5738	4745	5542	6397
85°	4467	3546	4203	5251



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.6	3.5
10°-20°	294.1	10.0
20°-30°	437.2	14.9
30°-40°	515.3	17.5
40°-50°	524.7	17.8
50°-60°	467.4	15.9
60°-70°	352.1	12.0
70°-80°	195.8	6.7
80°-90°	50.9	1.7
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°	834.9	28.4
0°-40°	1350.1	45.9
0°-60°	2342.2	79.6
0°-90°	2941.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2941.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1097	1097	1097	1097	1097	
5°	1089	1068	1087	1123	1089	103
15°	1041	968	1042	1125	1041	293
25°	948	841	951	1056	948	437
35°	824	712	827	937	824	515
45°	681	579	682	780	681	525
55°	522	440	526	602	522	468
65°	358	301	358	409	358	354
75°	186	155	184	210	186	198
85°	42	34	40	50	42	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6
2.5°	1092.9	1092.9	1094.1	1089.2	1083.0	1080.5	1079.3	1078.0	1080.5	1081.7	1080.5
5°	1089.2	1086.7	1084.2	1078.0	1070.6	1065.6	1063.0	1061.9	1064.4	1068.1	1064.4
7.5°	1081.7	1076.8	1071.8	1063.0	1054.5	1046.9	1043.3	1040.7	1043.3	1046.9	1044.4
10°	1069.2	1063.0	1055.7	1045.8	1033.4	1024.6	1021.0	1017.3	1018.4	1018.4	1018.4
12.5°	1056.8	1048.3	1039.6	1027.2	1013.4	1003.5	997.3	992.4	994.8	996.1	996.1
15°	1040.7	1029.7	1017.3	1003.5	989.9	978.7	971.3	966.3	967.6	967.6	968.8
17.5°	1021.0	1008.5	996.1	980.0	963.8	951.4	942.8	936.6	939.0	940.3	941.5
20°	998.7	984.9	971.3	953.9	936.6	922.9	914.2	906.8	905.6	905.6	906.8
22.5°	975.0	960.1	944.0	925.4	906.8	891.9	883.2	875.8	874.6	874.6	875.8
25°	947.7	931.6	915.5	896.9	877.0	862.2	851.0	843.6	842.3	841.1	843.6
27.5°	919.2	903.1	887.0	868.4	847.3	832.4	821.1	813.7	811.2	810.1	812.6
30°	889.4	870.8	853.5	833.5	814.9	800.2	788.9	780.2	777.9	775.4	777.9
32.5°	857.2	838.6	820.0	800.2	781.6	766.6	755.4	746.8	744.3	743.0	745.5
35°	823.6	805.0	787.8	767.8	749.2	734.4	723.2	715.8	713.3	712.0	713.3
37.5°	790.1	771.7	754.2	734.4	715.8	700.9	689.7	682.3	681.0	679.8	681.0
40°	751.7	735.6	718.2	699.6	681.0	666.2	657.5	648.8	646.3	643.8	647.6
42.5°	718.2	702.1	684.8	667.4	648.8	633.9	624.0	616.6	614.1	612.7	614.1
45°	681.0	663.7	646.3	630.2	612.7	599.2	589.3	581.7	580.6	579.4	580.6
47.5°	641.4	626.5	611.6	595.5	578.0	564.5	555.7	548.4	545.8	543.3	545.8
50°	604.2	589.3	574.4	559.4	543.3	530.9	522.2	514.8	513.5	512.3	513.5
52.5°	564.5	549.5	536.0	521.0	507.3	494.9	486.3	480.1	478.8	477.6	478.8
55°	522.2	509.8	497.4	485.0	471.4	460.2	452.8	445.3	442.9	440.4	442.9
57.5°	482.5	471.4	459.0	446.6	434.2	424.3	416.8	410.6	409.4	408.1	409.4
60°	441.6	431.7	420.5	409.4	397.0	387.1	380.9	375.9	373.3	372.2	373.3
62.5°	400.7	390.8	382.1	370.8	359.8	352.2	346.0	341.2	338.6	337.5	338.6
65°	358.4	349.9	341.2	331.3	322.5	315.0	308.8	303.9	302.6	301.4	301.4
67.5°	315.0	307.6	300.2	291.5	281.6	274.1	267.9	264.2	263.0	261.7	263.0
70°	270.4	264.2	256.8	249.3	241.9	235.7	232.0	228.3	227.0	225.8	225.8
72.5°	228.3	223.3	217.1	210.9	204.7	198.5	194.8	192.3	191.1	189.8	189.8
75°	186.1	181.1	177.4	172.5	166.3	162.5	158.8	156.3	155.1	155.1	155.1
77.5°	146.4	142.7	139.0	134.0	130.3	126.6	124.1	122.9	121.5	121.5	121.5
80°	108.0	105.4	102.9	100.4	96.7	93.0	91.9	90.5	89.3	89.3	89.3
82.5°	73.3	71.9	69.4	67.0	64.5	63.2	62.0	60.8	60.8	60.8	60.8
85°	42.2	40.9	39.7	38.4	37.2	37.2	36.0	34.7	33.5	33.5	33.5
87.5°	17.4	17.4	17.4	16.1	14.9	14.9	14.9	14.9	14.9	14.9	14.9
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):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6
2.5°	1078.0	1080.5	1083.0	1086.7	1090.4	1094.1	1092.9	1091.7	1096.6	1102.8	1104.1
5°	1061.9	1064.4	1068.1	1074.3	1080.5	1085.5	1086.7	1086.7	1096.6	1105.3	1107.8
7.5°	1042.1	1045.8	1050.6	1056.8	1065.6	1073.1	1076.8	1081.7	1091.7	1102.8	1107.8
10°	1017.3	1023.5	1030.8	1039.6	1048.3	1056.8	1064.4	1070.6	1083.0	1095.4	1102.8
12.5°	994.8	1001.0	1008.5	1018.4	1029.7	1040.7	1048.3	1056.8	1071.8	1086.7	1095.4
15°	970.0	976.2	984.9	994.8	1007.2	1019.6	1030.8	1042.1	1056.8	1073.1	1083.0
17.5°	942.8	949.0	957.6	970.0	983.7	997.3	1009.7	1022.1	1039.6	1056.8	1068.1
20°	909.3	918.0	929.1	941.5	957.6	973.8	986.2	999.8	1018.4	1037.0	1049.5
22.5°	877.0	885.7	898.1	913.0	930.4	947.7	962.6	977.5	997.3	1015.9	1029.7
25°	845.9	856.0	868.4	883.2	899.4	916.7	934.1	951.4	971.3	991.1	1004.9
27.5°	814.9	823.6	836.0	851.0	869.6	887.0	904.3	921.7	942.8	963.8	978.7
30°	780.2	790.1	801.3	816.3	836.0	856.0	873.3	891.9	913.0	934.1	949.0
32.5°	748.0	756.7	767.8	782.7	802.5	822.5	841.1	860.9	880.8	901.8	916.7
35°	715.8	724.4	735.6	750.5	770.3	790.1	808.7	827.3	847.3	867.1	882.0
37.5°	683.5	692.2	703.4	718.2	736.8	756.7	774.0	792.6	812.6	832.4	845.9
40°	650.0	658.7	667.4	682.3	700.9	720.7	738.1	756.7	776.5	796.3	810.1
42.5°	616.6	625.2	636.4	651.3	668.6	686.0	703.4	720.7	739.3	757.9	771.7
45°	583.1	590.4	601.7	615.3	632.7	648.8	666.2	682.3	700.9	718.2	731.9
47.5°	548.4	555.7	564.5	578.0	595.5	612.7	630.2	646.3	662.4	679.8	692.2
50°	514.8	522.2	532.1	544.5	560.8	576.9	591.8	606.5	622.8	638.9	650.0
52.5°	480.1	487.5	496.2	508.6	522.2	537.1	550.7	565.6	580.6	595.5	606.5
55°	445.3	450.3	457.7	468.9	483.8	498.7	512.3	525.9	539.6	552.0	563.1
57.5°	410.6	416.8	425.5	435.4	447.8	460.2	472.6	485.0	497.4	509.8	519.7
60°	375.9	380.9	387.1	395.7	408.1	419.3	431.7	442.9	454.0	465.2	473.9
62.5°	339.8	344.8	351.0	359.8	369.7	379.6	390.8	400.7	410.6	420.5	429.2
65°	302.6	307.6	313.8	321.2	329.9	338.6	348.5	358.4	366.0	373.3	382.1
67.5°	264.2	269.2	275.4	281.6	289.0	297.7	306.4	315.0	322.5	329.9	336.1
70°	227.0	230.7	236.9	241.9	248.1	254.3	261.7	269.2	274.1	280.3	287.8
72.5°	191.1	194.8	199.7	204.7	208.4	213.4	220.8	227.0	233.2	240.7	244.4
75°	156.3	158.8	162.5	166.3	170.0	173.7	178.7	183.6	188.6	192.3	197.3
77.5°	121.5	124.1	127.7	130.3	132.8	135.3	139.0	142.7	146.4	148.9	153.9
80°	89.3	91.9	94.2	96.7	99.2	101.8	102.9	104.3	109.1	112.8	115.3
82.5°	60.8	62.0	63.2	65.7	67.0	68.2	69.4	69.4	71.9	74.4	78.1
85°	34.7	36.0	37.2	37.2	37.2	37.2	38.4	39.7	40.9	43.4	45.9
87.5°	13.6	13.6	14.9	14.9	14.9	14.9	14.9	14.9	16.1	18.6	19.8
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):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6
2.5°	1102.8	1104.1	1106.5	1107.8	1109.0	1109.0	1110.3	1111.5	1109.0	1106.5	1105.3
5°	1109.0	1110.3	1114.0	1117.7	1120.2	1122.7	1121.4	1120.2	1117.7	1114.0	1111.5
7.5°	1110.3	1114.0	1117.7	1122.7	1126.4	1131.3	1128.9	1126.4	1121.4	1116.5	1112.7
10°	1106.5	1111.5	1117.7	1123.9	1127.6	1131.3	1128.9	1126.4	1121.4	1115.2	1110.3
12.5°	1101.6	1107.8	1115.2	1121.4	1125.1	1130.1	1126.4	1122.7	1116.5	1110.3	1104.1
15°	1090.4	1097.9	1106.5	1114.0	1120.2	1125.1	1121.4	1118.9	1111.5	1102.8	1094.1
17.5°	1076.8	1086.7	1095.4	1104.1	1109.0	1114.0	1111.5	1109.0	1100.3	1090.4	1080.5
20°	1060.7	1070.6	1079.3	1087.9	1094.1	1099.1	1095.4	1091.7	1083.0	1074.3	1064.4
22.5°	1040.7	1050.6	1060.7	1069.2	1075.4	1080.5	1075.4	1069.2	1060.7	1052.0	1042.1
25°	1015.9	1027.2	1038.2	1046.9	1050.6	1055.7	1050.6	1045.8	1037.0	1028.3	1017.3
27.5°	991.1	1002.3	1013.4	1022.1	1025.8	1030.8	1025.8	1021.0	1012.2	1003.5	992.4
30°	962.6	973.8	984.9	993.6	997.3	1001.0	996.1	991.1	983.7	975.0	963.8
32.5°	930.4	941.5	950.2	958.9	963.8	968.8	963.8	960.1	951.4	940.3	929.1
35°	895.6	906.8	918.0	926.6	931.6	936.6	930.4	924.2	916.7	908.0	898.1
37.5°	857.2	869.6	882.0	891.9	895.6	900.6	895.6	889.4	882.0	873.3	862.2
40°	821.1	832.4	843.6	853.5	857.2	860.9	856.0	851.0	842.3	833.5	822.5
42.5°	784.1	795.1	805.0	813.7	817.4	822.5	817.4	811.2	805.0	797.7	787.8
45°	744.3	755.4	764.1	772.8	776.5	780.2	775.4	769.1	762.9	756.7	746.8
47.5°	703.4	713.3	722.0	730.6	733.1	736.8	731.9	728.2	722.0	715.8	707.1
50°	661.2	671.1	679.8	687.2	689.7	693.4	688.5	683.5	678.6	673.6	666.2
52.5°	617.8	626.5	635.2	642.6	645.1	647.6	642.6	637.6	632.7	627.7	620.3
55°	573.2	581.7	590.4	596.7	599.2	601.7	596.7	593.0	587.9	584.2	576.9
57.5°	528.4	537.1	544.5	550.7	553.2	555.7	550.7	545.8	542.2	538.3	532.1
60°	482.5	491.2	497.4	502.4	504.9	506.1	501.1	497.4	494.9	492.5	486.3
62.5°	437.9	444.1	450.3	454.0	456.5	457.7	454.0	451.5	449.1	446.6	441.6
65°	390.8	398.2	403.2	406.9	408.1	409.4	405.7	403.2	400.7	398.2	394.5
67.5°	343.7	349.9	353.6	357.3	358.4	358.4	358.4	357.3	354.7	351.0	347.4
70°	296.4	301.4	305.1	307.6	308.8	308.8	306.4	303.9	303.9	302.6	300.2
72.5°	248.1	251.8	254.3	256.8	256.8	256.8	256.8	258.0	256.8	254.3	250.6
75°	202.2	205.9	208.4	209.7	209.7	209.7	209.7	210.9	209.7	208.4	205.9
77.5°	158.8	161.3	162.5	163.8	163.8	163.8	165.0	166.3	165.0	163.8	162.5
80°	117.9	119.0	120.4	121.5	120.4	120.4	121.5	124.1	122.9	121.5	120.4
82.5°	80.6	81.8	83.1	83.1	84.3	85.7	85.7	85.7	85.7	84.3	83.1
85°	48.4	49.6	49.6	49.6	49.6	49.6	50.8	52.1	52.1	50.8	50.8
87.5°	22.3	23.6	22.3	21.1	19.8	19.8	22.3	24.8	24.8	23.6	23.6
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: P735620

CATALOG NUMBER: 4APN6-34-B2750-W2D-CP125-3500K

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	1096.6	1096.6	1096.6	1096.6
2.5°	1106.5	1105.3	1099.1	1092.9
5°	1110.3	1106.5	1097.9	1089.2
7.5°	1110.3	1105.3	1092.9	1081.7
10°	1104.1	1096.6	1083.0	1069.2
12.5°	1096.6	1087.9	1071.8	1056.8
15°	1085.5	1075.4	1058.2	1040.7
17.5°	1069.2	1056.8	1039.6	1021.0
20°	1053.1	1039.6	1018.4	998.7
22.5°	1030.8	1018.4	996.1	975.0
25°	1006.0	992.4	970.0	947.7
27.5°	980.0	963.8	941.5	919.2
30°	950.2	934.1	911.8	889.4
32.5°	918.0	903.1	880.8	857.2
35°	885.7	869.6	847.3	823.6
37.5°	849.8	834.9	812.6	790.1
40°	811.2	796.3	774.0	751.7
42.5°	775.4	761.6	739.3	718.2
45°	735.6	722.0	700.9	681.0
47.5°	694.7	681.0	661.2	641.4
50°	655.0	641.4	622.8	604.2
52.5°	610.4	599.2	581.7	564.5
55°	567.0	555.7	538.3	522.2
57.5°	523.5	513.5	497.4	482.5
60°	477.6	467.7	455.3	441.6
62.5°	434.2	425.5	413.1	400.7
65°	388.3	380.9	369.7	358.4
67.5°	341.2	335.0	325.1	315.0
70°	294.0	286.5	279.1	270.4
72.5°	246.9	243.1	235.7	228.3
75°	202.2	198.5	192.3	186.1
77.5°	160.1	156.3	151.4	146.4
80°	117.9	115.3	111.7	108.0
82.5°	81.8	79.5	76.9	73.3
85°	49.6	47.1	44.6	42.2
87.5°	22.3	21.1	18.6	17.4
90°	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180°    - - 45°-225°    - - - - 90°-270°    - · - · 135°-315°















(END OF REPORT)