

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: P735635

Luminaire Tested: **4APN6-39-B2750-W2D-CP125-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P735635  
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: 4APN6-39-B2750-W2D-CP125-3500K  
Description: 4FT 3900 AMBIENT LUMEN OUTPUT APN WITH BIO UP LEDS AT 3500K CCT, AND CP125 LENS

Light Source: -  
Ballast/Driver: -

**Summary**

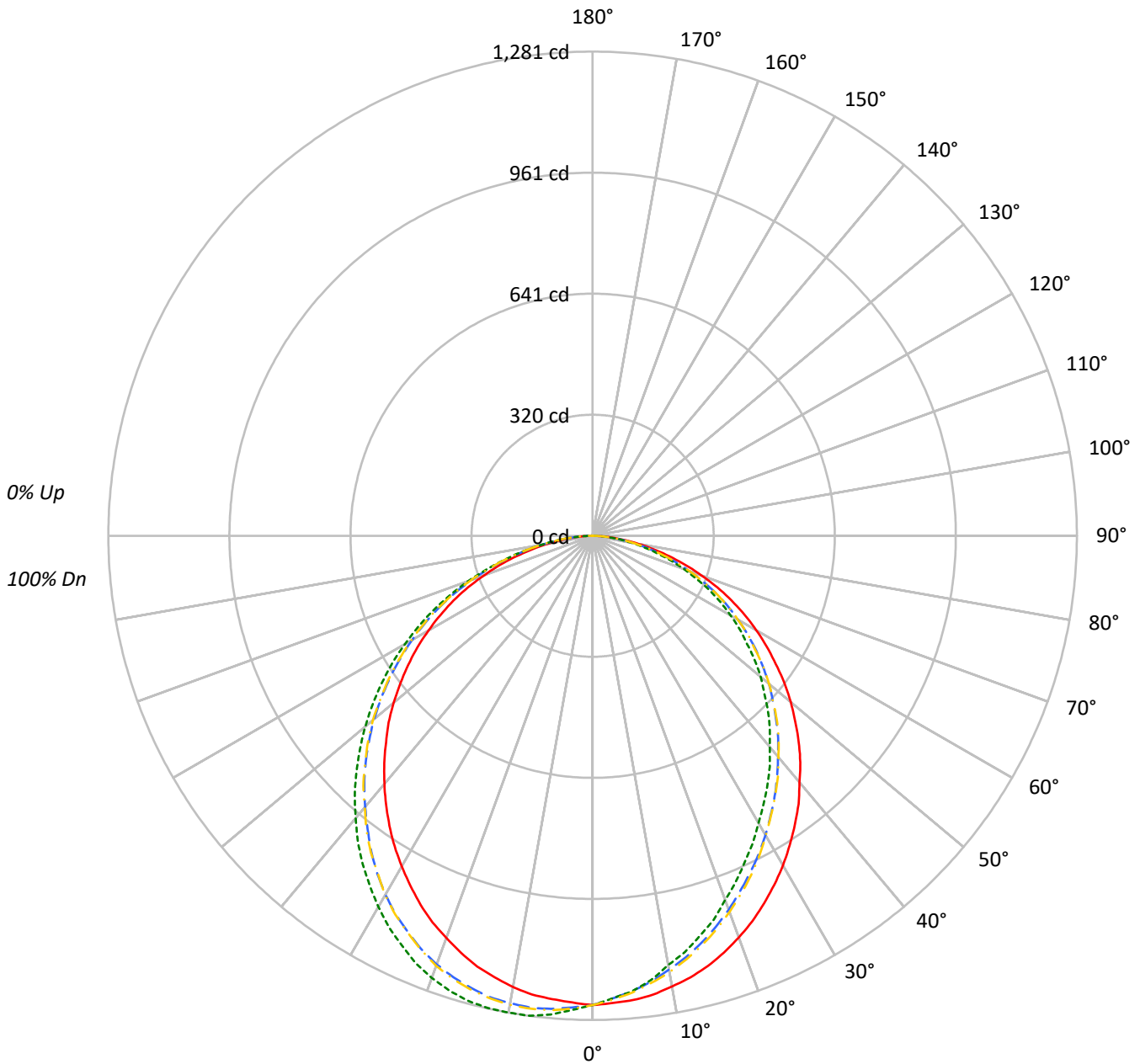
Lumens per Lamp: N/A  
Luminaire Lumens: 3330.0 lumens  
Efficiency: N/A  
Efficacy: 67.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 49.1  
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: P735635

CATALOG NUMBER: 4APN6-39-B2750-W2D-CP125-3500K

### 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°	11455	11455	11455	11455
5°	11421	11200	11395	11773
10°	11342	10803	11357	12000
15°	11256	10465	11270	12168
20°	11102	10068	11115	12219
25°	10923	9694	10966	12168
30°	10728	9353	10758	12075
35°	10504	9080	10551	11945
40°	10251	8779	10319	11739
45°	10061	8559	10081	11526
50°	9819	8326	9858	11269
55°	9511	8020	9579	10959
60°	9226	7776	9254	10575
65°	8859	7451	8859	10119
70°	8260	6898	8222	9433
75°	7511	6260	7411	8466
80°	6493	5377	6275	7242
85°	5060	4023	4764	5949



TEST NUMBER: P735635

CATALOG NUMBER: 4APN6-39-B2750-W2D-CP125-3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.3	3.5
10°-20°	333.0	10.0
20°-30°	495.0	14.9
30°-40°	583.4	17.5
40°-50°	594.0	17.8
50°-60°	529.2	15.9
60°-70°	398.7	12.0
70°-80°	221.7	6.7
80°-90°	57.6	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°	945.3	28.4
0°-40°	1528.7	45.9
0°-60°	2652.0	79.6
0°-90°	3330.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3330.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1242	1242	1242	1242	1242	
5°	1233	1209	1230	1271	1233	117
15°	1178	1096	1180	1274	1178	332
25°	1073	952	1077	1195	1073	494
35°	933	806	937	1060	933	583
45°	771	656	773	883	771	594
55°	591	499	596	681	591	530
65°	406	341	406	464	406	401
75°	211	176	208	238	211	224
85°	48	38	45	56	48	58
90°	0	0	0	0	0	



TEST NUMBER: P735635

CATALOG NUMBER: 4APN6-39-B2750-W2D-CP125-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1241.6	1241.6	1241.6	1241.6	1241.6	1241.6	1241.6	1241.6	1241.6	1241.6	1241.6
2.5°	1237.4	1237.4	1238.8	1233.2	1226.2	1223.4	1222.0	1220.5	1223.4	1224.7	1223.4
5°	1233.2	1230.4	1227.6	1220.5	1212.2	1206.5	1203.6	1202.3	1205.2	1209.3	1205.2
7.5°	1224.7	1219.2	1213.5	1203.6	1193.9	1185.4	1181.2	1178.4	1181.2	1185.4	1182.6
10°	1210.7	1203.6	1195.3	1184.1	1170.0	1160.2	1156.0	1151.8	1153.1	1153.1	1153.1
12.5°	1196.6	1186.9	1177.1	1163.0	1147.5	1136.3	1129.2	1123.7	1126.4	1127.9	1127.9
15°	1178.4	1165.9	1151.8	1136.3	1120.9	1108.2	1099.8	1094.1	1095.6	1095.6	1097.0
17.5°	1156.0	1141.9	1127.9	1109.7	1091.3	1077.2	1067.5	1060.5	1063.2	1064.7	1066.0
20°	1130.7	1115.2	1099.8	1080.1	1060.5	1045.0	1035.1	1026.7	1025.4	1025.4	1026.7
22.5°	1104.0	1087.1	1068.9	1047.8	1026.7	1009.8	1000.0	991.6	990.3	990.3	991.6
25°	1073.0	1054.8	1036.6	1015.5	993.0	976.2	963.5	955.2	953.7	952.3	955.2
27.5°	1040.8	1022.5	1004.3	983.3	959.3	942.5	929.7	921.4	918.5	917.2	920.0
30°	1007.0	985.9	966.4	943.8	922.7	906.0	893.3	883.4	880.7	877.9	880.7
32.5°	970.5	949.5	928.4	906.0	884.9	868.0	855.3	845.6	842.8	841.3	844.1
35°	932.6	911.5	892.0	869.4	848.3	831.6	818.9	810.5	807.7	806.2	807.7
37.5°	894.6	873.7	854.0	831.6	810.5	793.6	780.9	772.6	771.1	769.7	771.1
40°	851.1	832.9	813.2	792.1	771.1	754.3	744.5	734.6	731.8	728.9	733.3
42.5°	813.2	795.0	775.4	755.7	734.6	717.7	706.5	698.1	695.3	693.8	695.3
45°	771.1	751.5	731.8	713.5	693.8	678.4	667.2	658.7	657.3	656.0	657.3
47.5°	726.2	709.3	692.5	674.2	654.5	639.1	629.2	620.9	618.0	615.2	618.0
50°	684.1	667.2	650.3	633.4	615.2	601.2	591.3	582.9	581.4	580.1	581.4
52.5°	639.1	622.2	606.8	590.0	574.4	560.4	550.7	543.6	542.1	540.8	542.1
55°	591.3	577.2	563.2	549.2	533.8	521.1	512.7	504.2	501.5	498.6	501.5
57.5°	546.3	533.8	519.7	505.7	491.6	480.4	471.9	464.9	463.5	462.0	463.5
60°	500.0	488.8	476.1	463.5	449.5	438.3	431.3	425.6	422.7	421.4	422.7
62.5°	453.7	442.5	432.6	419.9	407.3	398.8	391.8	386.3	383.4	382.1	383.4
65°	405.8	396.1	386.3	375.1	365.2	356.7	349.7	344.1	342.6	341.3	341.3
67.5°	356.7	348.3	340.0	330.1	318.9	310.4	303.3	299.2	297.8	296.3	297.8
70°	306.2	299.2	290.8	282.3	273.9	266.9	262.7	258.5	257.0	255.7	255.7
72.5°	258.5	252.8	245.8	238.8	231.8	224.7	220.6	217.7	216.4	214.9	214.9
75°	210.7	205.0	200.8	195.3	188.3	183.9	179.8	176.9	175.6	175.6	175.6
77.5°	165.7	161.5	157.4	151.7	147.5	143.3	140.5	139.1	137.6	137.6	137.6
80°	122.2	119.4	116.6	113.7	109.5	105.3	104.0	102.5	101.2	101.2	101.2
82.5°	82.9	81.4	78.6	75.9	73.1	71.6	70.2	68.9	68.9	68.9	68.9
85°	47.8	46.3	45.0	43.5	42.1	42.1	40.8	39.3	38.0	38.0	38.0
87.5°	19.7	19.7	19.7	18.2	16.9	16.9	16.9	16.9	16.9	16.9	16.9
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: P735635

CATALOG NUMBER: 4APN6-39-B2750-W2D-CP125-3500K

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1241.6	1241.6	1241.6	1241.6	1241.6	1241.6	1241.6	1241.6	1241.6	1241.6	1241.6
2.5°	1220.5	1223.4	1226.2	1230.4	1234.6	1238.8	1237.4	1236.1	1241.6	1248.6	1250.1
5°	1202.3	1205.2	1209.3	1216.4	1223.4	1229.1	1230.4	1230.4	1241.6	1251.5	1254.3
7.5°	1179.9	1184.1	1189.6	1196.6	1206.5	1215.0	1219.2	1224.7	1236.1	1248.6	1254.3
10°	1151.8	1158.8	1167.2	1177.1	1186.9	1196.6	1205.2	1212.2	1226.2	1240.3	1248.6
12.5°	1126.4	1133.4	1141.9	1153.1	1165.9	1178.4	1186.9	1196.6	1213.5	1230.4	1240.3
15°	1098.3	1105.3	1115.2	1126.4	1140.4	1154.5	1167.2	1179.9	1196.6	1215.0	1226.2
17.5°	1067.5	1074.6	1084.3	1098.3	1113.9	1129.2	1143.3	1157.3	1177.1	1196.6	1209.3
20°	1029.6	1039.4	1052.0	1066.0	1084.3	1102.6	1116.7	1132.1	1153.1	1174.2	1188.3
22.5°	993.0	1002.8	1016.9	1033.8	1053.5	1073.0	1089.9	1106.8	1129.2	1150.3	1165.9
25°	957.8	969.2	983.3	1000.0	1018.4	1037.9	1057.7	1077.2	1099.8	1122.2	1137.8
27.5°	922.7	932.6	946.6	963.5	984.6	1004.3	1023.9	1043.6	1067.5	1091.3	1108.2
30°	883.4	894.6	907.3	924.2	946.6	969.2	988.8	1009.8	1033.8	1057.7	1074.6
32.5°	847.0	856.8	869.4	886.3	908.7	931.2	952.3	974.7	997.3	1021.0	1037.9
35°	810.5	820.2	832.9	849.8	872.2	894.6	915.7	936.8	959.3	981.7	998.6
37.5°	773.9	783.8	796.5	813.2	834.3	856.8	876.4	897.5	920.0	942.5	957.8
40°	735.9	745.8	755.7	772.6	793.6	816.0	835.8	856.8	879.2	901.6	917.2
42.5°	698.1	707.8	720.6	737.4	757.0	776.7	796.5	816.0	837.1	858.2	873.7
45°	660.2	668.5	681.3	696.6	716.4	734.6	754.3	772.6	793.6	813.2	828.7
47.5°	620.9	629.2	639.1	654.5	674.2	693.8	713.5	731.8	750.0	769.7	783.8
50°	582.9	591.3	602.5	616.5	634.9	653.2	670.1	686.8	705.2	723.4	735.9
52.5°	543.6	552.0	561.9	575.9	591.3	608.2	623.6	640.5	657.3	674.2	686.8
55°	504.2	509.9	518.2	530.9	547.8	564.7	580.1	595.5	611.0	625.1	637.6
57.5°	464.9	471.9	481.8	493.0	507.0	521.1	535.1	549.2	563.2	577.2	588.4
60°	425.6	431.3	438.3	448.0	462.0	474.7	488.8	501.5	514.0	526.7	536.6
62.5°	384.8	390.5	397.5	407.3	418.6	429.8	442.5	453.7	464.9	476.1	485.9
65°	342.6	348.3	355.3	363.7	373.6	383.4	394.6	405.8	414.4	422.7	432.6
67.5°	299.2	304.8	311.9	318.9	327.2	337.1	347.0	356.7	365.2	373.6	380.6
70°	257.0	261.2	268.2	273.9	280.9	288.0	296.3	304.8	310.4	317.4	325.9
72.5°	216.4	220.6	226.1	231.8	235.9	241.6	250.0	257.0	264.0	272.6	276.7
75°	176.9	179.8	183.9	188.3	192.5	196.7	202.3	207.9	213.5	217.7	223.4
77.5°	137.6	140.5	144.6	147.5	150.3	153.2	157.4	161.5	165.7	168.6	174.2
80°	101.2	104.0	106.7	109.5	112.4	115.2	116.6	118.1	123.6	127.8	130.6
82.5°	68.9	70.2	71.6	74.4	75.9	77.3	78.6	78.6	81.4	84.3	88.5
85°	39.3	40.8	42.1	42.1	42.1	42.1	43.5	45.0	46.3	49.2	52.0
87.5°	15.4	15.4	16.9	16.9	16.9	16.9	16.9	16.9	18.2	21.1	22.4
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: P735635

CATALOG NUMBER: 4APN6-39-B2750-W2D-CP125-3500K

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1241.6	1241.6	1241.6	1241.6	1241.6	1241.6	1241.6	1241.6	1241.6	1241.6	1241.6
2.5°	1248.6	1250.1	1252.8	1254.3	1255.7	1255.7	1257.2	1258.5	1255.7	1252.8	1251.5
5°	1255.7	1257.2	1261.3	1265.5	1268.4	1271.2	1269.7	1268.4	1265.5	1261.3	1258.5
7.5°	1257.2	1261.3	1265.5	1271.2	1275.4	1280.9	1278.2	1275.4	1269.7	1264.2	1259.8
10°	1252.8	1258.5	1265.5	1272.5	1276.7	1280.9	1278.2	1275.4	1269.7	1262.7	1257.2
12.5°	1247.3	1254.3	1262.7	1269.7	1273.9	1279.6	1275.4	1271.2	1264.2	1257.2	1250.1
15°	1234.6	1243.1	1252.8	1261.3	1268.4	1273.9	1269.7	1266.9	1258.5	1248.6	1238.8
17.5°	1219.2	1230.4	1240.3	1250.1	1255.7	1261.3	1258.5	1255.7	1245.8	1234.6	1223.4
20°	1201.0	1212.2	1222.0	1231.7	1238.8	1244.5	1240.3	1236.1	1226.2	1216.4	1205.2
22.5°	1178.4	1189.6	1201.0	1210.7	1217.7	1223.4	1217.7	1210.7	1201.0	1191.1	1179.9
25°	1150.3	1163.0	1175.6	1185.4	1189.6	1195.3	1189.6	1184.1	1174.2	1164.4	1151.8
27.5°	1122.2	1134.9	1147.5	1157.3	1161.5	1167.2	1161.5	1156.0	1146.1	1136.3	1123.7
30°	1089.9	1102.6	1115.2	1125.1	1129.2	1133.4	1127.9	1122.2	1113.9	1104.0	1091.3
32.5°	1053.5	1066.0	1075.9	1085.8	1091.3	1097.0	1091.3	1087.1	1077.2	1064.7	1052.0
35°	1014.0	1026.7	1039.4	1049.1	1054.8	1060.5	1053.5	1046.5	1037.9	1028.1	1016.9
37.5°	970.5	984.6	998.6	1009.8	1014.0	1019.7	1014.0	1007.0	998.6	988.8	976.2
40°	929.7	942.5	955.2	966.4	970.5	974.7	969.2	963.5	953.7	943.8	931.2
42.5°	887.8	900.3	911.5	921.4	925.6	931.2	925.6	918.5	911.5	903.2	892.0
45°	842.8	855.3	865.2	875.1	879.2	883.4	877.9	870.9	863.9	856.8	845.6
47.5°	796.5	807.7	817.5	827.2	830.1	834.3	828.7	824.6	817.5	810.5	800.6
50°	748.6	759.8	769.7	778.1	780.9	785.1	779.6	773.9	768.4	762.7	754.3
52.5°	699.5	709.3	719.2	727.6	730.4	733.3	727.6	721.9	716.4	710.7	702.3
55°	649.0	658.7	668.5	675.6	678.4	681.3	675.6	671.4	665.7	661.5	653.2
57.5°	598.3	608.2	616.5	623.6	626.4	629.2	623.6	618.0	613.9	609.5	602.5
60°	546.3	556.2	563.2	568.9	571.7	573.1	567.4	563.2	560.4	557.7	550.7
62.5°	495.8	502.8	509.9	514.0	516.9	518.2	514.0	511.2	508.5	505.7	500.0
65°	442.5	450.8	456.5	460.7	462.0	463.5	459.4	456.5	453.7	450.8	446.6
67.5°	389.1	396.1	400.3	404.5	405.8	405.8	405.8	404.5	401.7	397.5	393.3
70°	335.6	341.3	345.5	348.3	349.7	349.7	347.0	344.1	344.1	342.6	340.0
72.5°	280.9	285.1	288.0	290.8	290.8	290.8	290.8	292.1	290.8	288.0	283.8
75°	228.9	233.1	235.9	237.5	237.5	237.5	237.5	238.8	237.5	235.9	233.1
77.5°	179.8	182.6	183.9	185.4	185.4	185.4	186.8	188.3	186.8	185.4	183.9
80°	133.4	134.8	136.3	137.6	136.3	136.3	137.6	140.5	139.1	137.6	136.3
82.5°	91.3	92.6	94.1	94.1	95.5	97.0	97.0	97.0	97.0	95.5	94.1
85°	54.8	56.2	56.2	56.2	56.2	56.2	57.5	59.0	59.0	57.5	57.5
87.5°	25.3	26.8	25.3	23.9	22.4	22.4	25.3	28.1	28.1	26.8	26.8
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: P735635

CATALOG NUMBER: 4APN6-39-B2750-W2D-CP125-3500K

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	1241.6	1241.6	1241.6	1241.6
2.5°	1252.8	1251.5	1244.5	1237.4
5°	1257.2	1252.8	1243.1	1233.2
7.5°	1257.2	1251.5	1237.4	1224.7
10°	1250.1	1241.6	1226.2	1210.7
12.5°	1241.6	1231.7	1213.5	1196.6
15°	1229.1	1217.7	1198.1	1178.4
17.5°	1210.7	1196.6	1177.1	1156.0
20°	1192.4	1177.1	1153.1	1130.7
22.5°	1167.2	1153.1	1127.9	1104.0
25°	1139.1	1123.7	1098.3	1073.0
27.5°	1109.7	1091.3	1066.0	1040.8
30°	1075.9	1057.7	1032.4	1007.0
32.5°	1039.4	1022.5	997.3	970.5
35°	1002.8	984.6	959.3	932.6
37.5°	962.2	945.3	920.0	894.6
40°	918.5	901.6	876.4	851.1
42.5°	877.9	862.4	837.1	813.2
45°	832.9	817.5	793.6	771.1
47.5°	786.6	771.1	748.6	726.2
50°	741.6	726.2	705.2	684.1
52.5°	691.1	678.4	658.7	639.1
55°	642.0	629.2	609.5	591.3
57.5°	592.8	581.4	563.2	546.3
60°	540.8	529.6	515.5	500.0
62.5°	491.6	481.8	467.7	453.7
65°	439.6	431.3	418.6	405.8
67.5°	386.3	379.3	368.1	356.7
70°	332.9	324.4	316.0	306.2
72.5°	279.6	275.2	266.9	258.5
75°	228.9	224.7	217.7	210.7
77.5°	181.3	176.9	171.4	165.7
80°	133.4	130.6	126.4	122.2
82.5°	92.6	90.0	87.1	82.9
85°	56.2	53.3	50.5	47.8
87.5°	25.3	23.9	21.1	19.7
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)