

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: P735633

Luminaire Tested: **4APN6-39-B2750-W2D-CP125-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P735633  
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-CP125-2700K  
Description: 4FT 3900 AMBIENT LUMEN OUTPUT APN WITH BIO UP LEDS AT 2700K CCT, AND CP125 LENS

Light Source: -  
Ballast/Driver: -

**Summary**

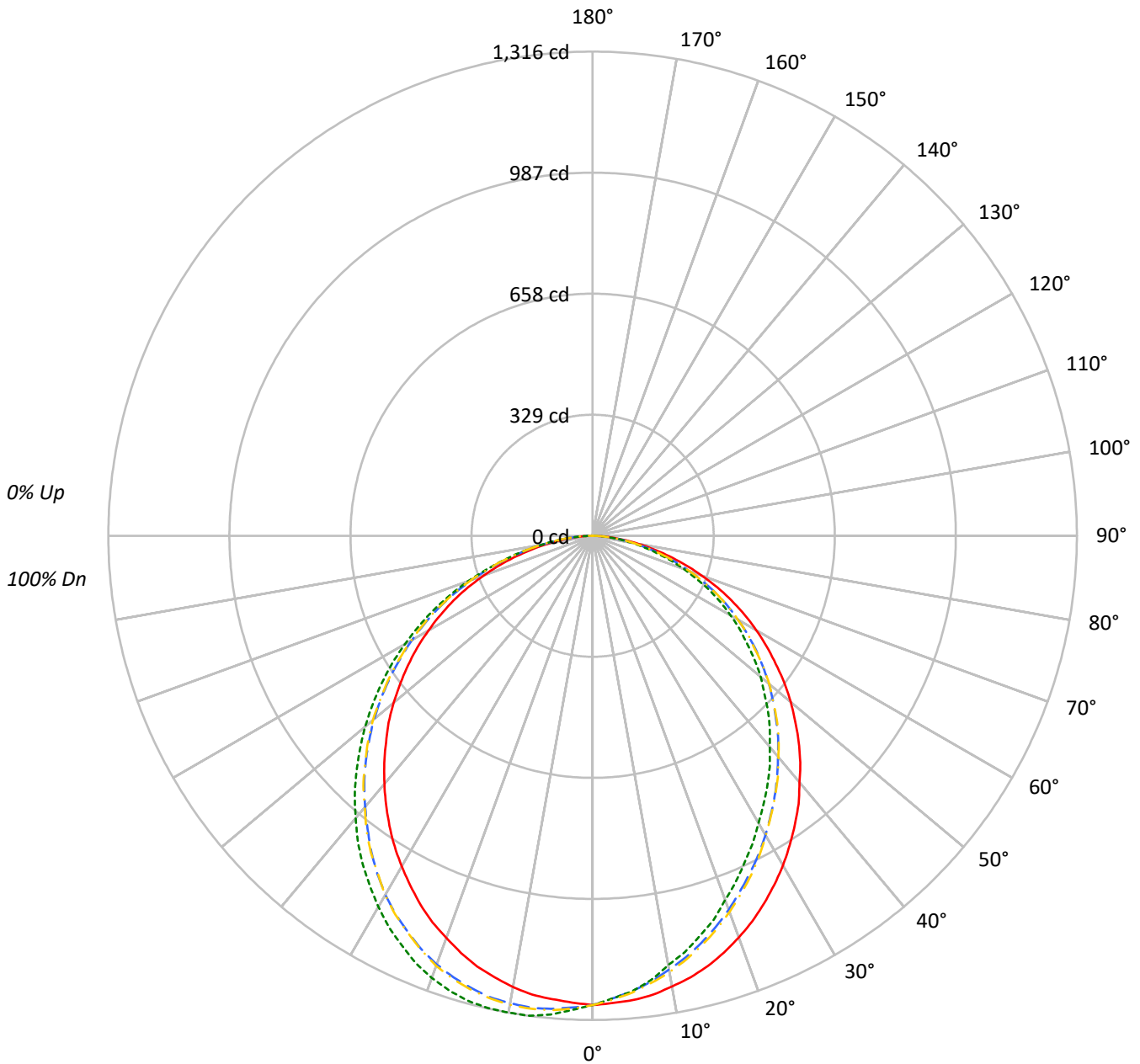
Lumens per Lamp: N/A  
Luminaire Lumens: 3421.0 lumens  
Efficiency: N/A  
Efficacy: 69.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

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

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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°	11768	11768	11768	11768
5°	11733	11506	11706	12095
10°	11653	11099	11667	12328
15°	11563	10751	11578	12500
20°	11405	10343	11419	12553
25°	11222	9959	11266	12501
30°	11021	9608	11052	12405
35°	10791	9328	10840	12271
40°	10531	9019	10601	12061
45°	10335	8793	10356	11842
50°	10088	8553	10126	11577
55°	9770	8241	9839	11258
60°	9479	7988	9507	10863
65°	9101	7654	9101	10396
70°	8484	7086	8449	9690
75°	7718	6431	7611	8694
80°	6673	5520	6445	7438
85°	5198	4128	4891	6108



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.5	3.5
10°-20°	342.1	10.0
20°-30°	508.5	14.9
30°-40°	599.4	17.5
40°-50°	610.3	17.8
50°-60°	543.7	15.9
60°-70°	409.6	12.0
70°-80°	227.8	6.7
80°-90°	59.2	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°	971.1	28.4
0°-40°	1570.5	45.9
0°-60°	2724.4	79.6
0°-90°	3421.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3421.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1276	1276	1276	1276	1276	
5°	1267	1242	1264	1306	1267	120
15°	1211	1126	1212	1309	1211	341
25°	1102	978	1107	1228	1102	508
35°	958	828	962	1090	958	599
45°	792	674	794	908	792	610
55°	607	512	612	700	607	544
65°	417	351	417	476	417	412
75°	216	180	214	244	216	230
85°	49	39	46	58	49	59
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°	1275.5	1275.5	1275.5	1275.5	1275.5	1275.5	1275.5	1275.5	1275.5	1275.5	1275.5
2.5°	1271.2	1271.2	1272.6	1266.9	1259.7	1256.8	1255.4	1253.9	1256.8	1258.2	1256.8
5°	1266.9	1264.0	1261.1	1253.9	1245.3	1239.5	1236.5	1235.2	1238.1	1242.4	1238.1
7.5°	1258.2	1252.5	1246.7	1236.5	1226.6	1217.8	1213.5	1210.6	1213.5	1217.8	1214.9
10°	1243.8	1236.5	1228.0	1216.4	1202.0	1191.9	1187.6	1183.3	1184.7	1184.7	1184.7
12.5°	1229.3	1219.4	1209.2	1194.8	1178.8	1167.3	1160.1	1154.4	1157.2	1158.7	1158.7
15°	1210.6	1197.7	1183.3	1167.3	1151.5	1138.4	1129.9	1124.0	1125.6	1125.6	1126.9
17.5°	1187.6	1173.2	1158.7	1140.0	1121.1	1106.7	1096.7	1089.5	1092.2	1093.8	1095.2
20°	1161.6	1145.7	1129.9	1109.6	1089.5	1073.5	1063.4	1054.8	1053.4	1053.4	1054.8
22.5°	1134.2	1116.8	1098.1	1076.4	1054.8	1037.4	1027.3	1018.7	1017.3	1017.3	1018.7
25°	1102.4	1083.6	1064.9	1043.3	1020.1	1002.9	989.9	981.3	979.7	978.3	981.3
27.5°	1069.2	1050.5	1031.8	1010.1	985.6	968.2	955.1	946.6	943.6	942.3	945.2
30°	1034.5	1012.9	992.8	969.6	947.9	930.8	917.7	907.6	904.8	901.9	904.8
32.5°	997.1	975.4	953.8	930.8	909.1	891.8	878.7	868.7	865.8	864.3	867.2
35°	958.1	936.4	916.3	893.1	871.5	854.3	841.3	832.7	829.7	828.2	829.7
37.5°	919.1	897.6	877.3	854.3	832.7	815.3	802.3	793.7	792.1	790.7	792.1
40°	874.4	855.7	835.4	813.8	792.1	774.9	764.8	754.7	751.8	748.8	753.3
42.5°	835.4	816.7	796.6	776.3	754.7	737.3	725.8	717.2	714.3	712.8	714.3
45°	792.1	772.0	751.8	733.0	712.8	697.0	685.4	676.7	675.3	673.9	675.3
47.5°	746.1	728.7	711.4	692.7	672.4	656.6	646.4	637.9	634.9	632.0	634.9
50°	702.8	685.4	668.1	650.7	632.0	617.6	607.4	598.9	597.3	595.9	597.3
52.5°	656.6	639.2	623.4	606.1	590.1	575.7	565.7	558.5	556.9	555.6	556.9
55°	607.4	593.0	578.6	564.2	548.4	535.3	526.7	517.9	515.2	512.3	515.2
57.5°	561.2	548.4	533.9	519.5	505.1	493.6	484.8	477.6	476.2	474.7	476.2
60°	513.7	502.1	489.1	476.2	461.8	450.3	443.0	437.2	434.3	432.9	434.3
62.5°	466.1	454.6	444.4	431.4	418.5	409.7	402.5	396.8	393.9	392.5	393.9
65°	416.9	407.0	396.8	385.3	375.2	366.4	359.2	353.5	352.0	350.6	350.6
67.5°	366.4	357.8	349.2	339.1	327.6	318.8	311.6	307.3	306.0	304.4	306.0
70°	314.5	307.3	298.7	290.0	281.4	274.2	269.9	265.6	264.0	262.7	262.7
72.5°	265.6	259.7	252.5	245.3	238.1	230.9	226.6	223.7	222.3	220.7	220.7
75°	216.5	210.6	206.3	200.7	193.4	189.0	184.7	181.8	180.4	180.4	180.4
77.5°	170.2	165.9	161.7	155.8	151.5	147.2	144.3	142.9	141.4	141.4	141.4
80°	125.6	122.7	119.7	116.8	112.5	108.2	106.9	105.3	103.9	103.9	103.9
82.5°	85.2	83.7	80.7	78.0	75.1	73.5	72.2	70.8	70.8	70.8	70.8
85°	49.1	47.6	46.2	44.7	43.3	43.3	41.9	40.4	39.0	39.0	39.0
87.5°	20.3	20.3	20.3	18.7	17.4	17.4	17.4	17.4	17.4	17.4	17.4
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°	1275.5	1275.5	1275.5	1275.5	1275.5	1275.5	1275.5	1275.5	1275.5	1275.5	1275.5
2.5°	1253.9	1256.8	1259.7	1264.0	1268.3	1272.6	1271.2	1269.9	1275.5	1282.8	1284.3
5°	1235.2	1238.1	1242.4	1249.6	1256.8	1262.7	1264.0	1264.0	1275.5	1285.7	1288.6
7.5°	1212.1	1216.4	1222.1	1229.3	1239.5	1248.2	1252.5	1258.2	1269.9	1282.8	1288.6
10°	1183.3	1190.5	1199.1	1209.2	1219.4	1229.3	1238.1	1245.3	1259.7	1274.2	1282.8
12.5°	1157.2	1164.4	1173.2	1184.7	1197.7	1210.6	1219.4	1229.3	1246.7	1264.0	1274.2
15°	1128.3	1135.5	1145.7	1157.2	1171.6	1186.0	1199.1	1212.1	1229.3	1248.2	1259.7
17.5°	1096.7	1103.9	1113.9	1128.3	1144.3	1160.1	1174.5	1189.0	1209.2	1229.3	1242.4
20°	1057.7	1067.8	1080.7	1095.2	1113.9	1132.8	1147.2	1163.0	1184.7	1206.3	1220.7
22.5°	1020.1	1030.2	1044.7	1062.0	1082.3	1102.4	1119.7	1137.1	1160.1	1181.7	1197.7
25°	984.0	995.7	1010.1	1027.3	1046.2	1066.3	1086.6	1106.7	1129.9	1152.9	1168.9
27.5°	947.9	958.1	972.5	989.9	1011.5	1031.8	1051.9	1072.1	1096.7	1121.1	1138.4
30°	907.6	919.1	932.1	949.5	972.5	995.7	1015.8	1037.4	1062.0	1086.6	1103.9
32.5°	870.1	880.2	893.1	910.5	933.5	956.7	978.3	1001.4	1024.6	1048.9	1066.3
35°	832.7	842.6	855.7	873.0	896.1	919.1	940.7	962.4	985.6	1008.6	1025.9
37.5°	795.0	805.2	818.2	835.4	857.1	880.2	900.3	922.0	945.2	968.2	984.0
40°	756.0	766.2	776.3	793.7	815.3	838.3	858.6	880.2	903.3	926.3	942.3
42.5°	717.2	727.2	740.2	757.6	777.7	798.0	818.2	838.3	860.0	881.6	897.6
45°	678.2	686.8	699.9	715.7	735.9	754.7	774.9	793.7	815.3	835.4	851.4
47.5°	637.9	646.4	656.6	672.4	692.7	712.8	733.0	751.8	770.5	790.7	805.2
50°	598.9	607.4	619.0	633.4	652.3	671.0	688.4	705.5	724.4	743.2	756.0
52.5°	558.5	567.1	577.2	591.6	607.4	624.8	640.6	658.0	675.3	692.7	705.5
55°	517.9	523.8	532.4	545.4	562.8	580.1	595.9	611.7	627.7	642.1	655.0
57.5°	477.6	484.8	494.9	506.4	520.9	535.3	549.7	564.2	578.6	593.0	604.5
60°	437.2	443.0	450.3	460.2	474.7	487.7	502.1	515.2	528.1	541.1	551.3
62.5°	395.3	401.1	408.3	418.5	430.0	441.5	454.6	466.1	477.6	489.1	499.2
65°	352.0	357.8	365.1	373.6	383.8	393.9	405.4	416.9	425.7	434.3	444.4
67.5°	307.3	313.2	320.4	327.6	336.2	346.3	356.5	366.4	375.2	383.8	391.0
70°	264.0	268.3	275.6	281.4	288.6	295.8	304.4	313.2	318.8	326.1	334.8
72.5°	222.3	226.6	232.3	238.1	242.4	248.2	256.8	264.0	271.3	280.0	284.3
75°	181.8	184.7	189.0	193.4	197.7	202.0	207.9	213.5	219.4	223.7	229.5
77.5°	141.4	144.3	148.6	151.5	154.4	157.4	161.7	165.9	170.2	173.2	179.0
80°	103.9	106.9	109.6	112.5	115.4	118.4	119.7	121.3	127.0	131.2	134.2
82.5°	70.8	72.2	73.5	76.4	78.0	79.4	80.7	80.7	83.7	86.6	90.9
85°	40.4	41.9	43.3	43.3	43.3	43.3	44.7	46.2	47.6	50.5	53.4
87.5°	15.8	15.8	17.4	17.4	17.4	17.4	17.4	17.4	18.7	21.6	23.0
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):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1275.5	1275.5	1275.5	1275.5	1275.5	1275.5	1275.5	1275.5	1275.5	1275.5	1275.5
2.5°	1282.8	1284.3	1287.0	1288.6	1290.0	1290.0	1291.5	1292.9	1290.0	1287.0	1285.7
5°	1290.0	1291.5	1295.8	1300.1	1303.0	1303.0	1304.4	1303.0	1300.1	1295.8	1292.9
7.5°	1291.5	1295.8	1300.1	1305.9	1310.2	1315.9	1313.2	1310.2	1304.4	1298.7	1294.3
10°	1287.0	1292.9	1300.1	1307.3	1311.6	1315.9	1313.2	1310.2	1304.4	1297.2	1291.5
12.5°	1281.4	1288.6	1297.2	1304.4	1308.7	1314.5	1310.2	1305.9	1298.7	1291.5	1284.3
15°	1268.3	1277.1	1287.0	1295.8	1303.0	1308.7	1304.4	1301.5	1292.9	1282.8	1272.6
17.5°	1252.5	1264.0	1274.2	1284.3	1290.0	1295.8	1292.9	1290.0	1279.8	1268.3	1256.8
20°	1233.8	1245.3	1255.4	1265.4	1272.6	1278.5	1274.2	1269.9	1259.7	1249.6	1238.1
22.5°	1210.6	1222.1	1233.8	1243.8	1251.0	1256.8	1251.0	1243.8	1233.8	1223.7	1212.1
25°	1181.7	1194.8	1207.7	1217.8	1222.1	1228.0	1222.1	1216.4	1206.3	1196.2	1183.3
27.5°	1152.9	1165.9	1178.8	1189.0	1193.3	1199.1	1193.3	1187.6	1177.4	1167.3	1154.4
30°	1119.7	1132.8	1145.7	1155.8	1160.1	1164.4	1158.7	1152.9	1144.3	1134.2	1121.1
32.5°	1082.3	1095.2	1105.3	1115.4	1121.1	1126.9	1121.1	1116.8	1106.7	1093.8	1080.7
35°	1041.7	1054.8	1067.8	1077.8	1083.6	1089.5	1082.3	1075.1	1066.3	1056.2	1044.7
37.5°	997.1	1011.5	1025.9	1037.4	1041.7	1047.6	1041.7	1034.5	1025.9	1015.8	1002.9
40°	955.1	968.2	981.3	992.8	997.1	1001.4	995.7	989.9	979.7	969.6	956.7
42.5°	912.0	924.9	936.4	946.6	950.9	956.7	950.9	943.6	936.4	927.8	916.3
45°	865.8	878.7	888.8	899.0	903.3	907.6	901.9	894.7	887.5	880.2	868.7
47.5°	818.2	829.7	839.9	849.8	852.8	857.1	851.4	847.1	839.9	832.7	822.5
50°	769.1	780.6	790.7	799.3	802.3	806.6	800.9	795.0	789.4	783.5	774.9
52.5°	718.6	728.7	738.9	747.5	750.4	753.3	747.5	741.6	735.9	730.1	721.5
55°	666.7	676.7	686.8	694.0	697.0	699.9	694.0	689.7	683.9	679.6	671.0
57.5°	614.7	624.8	633.4	640.6	643.5	646.4	640.6	634.9	630.6	626.2	619.0
60°	561.2	571.4	578.6	584.4	587.3	588.7	582.9	578.6	575.7	572.9	565.7
62.5°	509.4	516.6	523.8	528.1	531.0	532.4	528.1	525.2	522.4	519.5	513.7
65°	454.6	463.1	469.0	473.3	474.7	476.2	471.9	469.0	466.1	463.1	458.8
67.5°	399.8	407.0	411.3	415.6	416.9	416.9	416.9	415.6	412.6	408.3	404.0
70°	344.8	350.6	354.9	357.8	359.2	359.2	356.5	353.5	353.5	352.0	349.2
72.5°	288.6	292.9	295.8	298.7	298.7	298.7	298.7	300.1	298.7	295.8	291.5
75°	235.2	239.5	242.4	243.9	243.9	243.9	243.9	245.3	243.9	242.4	239.5
77.5°	184.7	187.6	189.0	190.5	190.5	190.5	191.9	193.4	191.9	190.5	189.0
80°	137.1	138.5	140.0	141.4	140.0	140.0	141.4	144.3	142.9	141.4	140.0
82.5°	93.8	95.2	96.7	96.7	98.1	99.6	99.6	99.6	99.6	98.1	96.7
85°	56.3	57.7	57.7	57.7	57.7	57.7	59.1	60.6	60.6	59.1	59.1
87.5°	25.9	27.5	25.9	24.6	23.0	23.0	25.9	28.9	28.9	27.5	27.5
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: P735633

CATALOG NUMBER: 4APN6-39-B2750-W2D-CP125-2700K

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	1275.5	1275.5	1275.5	1275.5
2.5°	1287.0	1285.7	1278.5	1271.2
5°	1291.5	1287.0	1277.1	1266.9
7.5°	1291.5	1285.7	1271.2	1258.2
10°	1284.3	1275.5	1259.7	1243.8
12.5°	1275.5	1265.4	1246.7	1229.3
15°	1262.7	1251.0	1230.9	1210.6
17.5°	1243.8	1229.3	1209.2	1187.6
20°	1225.0	1209.2	1184.7	1161.6
22.5°	1199.1	1184.7	1158.7	1134.2
25°	1170.2	1154.4	1128.3	1102.4
27.5°	1140.0	1121.1	1095.2	1069.2
30°	1105.3	1086.6	1060.6	1034.5
32.5°	1067.8	1050.5	1024.6	997.1
35°	1030.2	1011.5	985.6	958.1
37.5°	988.5	971.1	945.2	919.1
40°	943.6	926.3	900.3	874.4
42.5°	901.9	885.9	860.0	835.4
45°	855.7	839.9	815.3	792.1
47.5°	808.1	792.1	769.1	746.1
50°	761.9	746.1	724.4	702.8
52.5°	710.0	697.0	676.7	656.6
55°	659.5	646.4	626.2	607.4
57.5°	609.0	597.3	578.6	561.2
60°	555.6	544.1	529.6	513.7
62.5°	505.1	494.9	480.5	466.1
65°	451.6	443.0	430.0	416.9
67.5°	396.8	389.6	378.1	366.4
70°	342.0	333.3	324.7	314.5
72.5°	287.2	282.8	274.2	265.6
75°	235.2	230.9	223.7	216.5
77.5°	186.2	181.8	176.1	170.2
80°	137.1	134.2	129.9	125.6
82.5°	95.2	92.4	89.5	85.2
85°	57.7	54.8	51.9	49.1
87.5°	25.9	24.6	21.6	20.3
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)