

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: P735619

Luminaire Tested: **4APN6-34-B2750-W2D-CP125-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735619
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-CP125-3000K
Description: 4FT 3400 AMBIENT LUMEN OUTPUT APN WITH BIO UP LEDS AT 3000K CCT, AND CP125 LENS

Light Source: -
Ballast/Driver: -

Summary

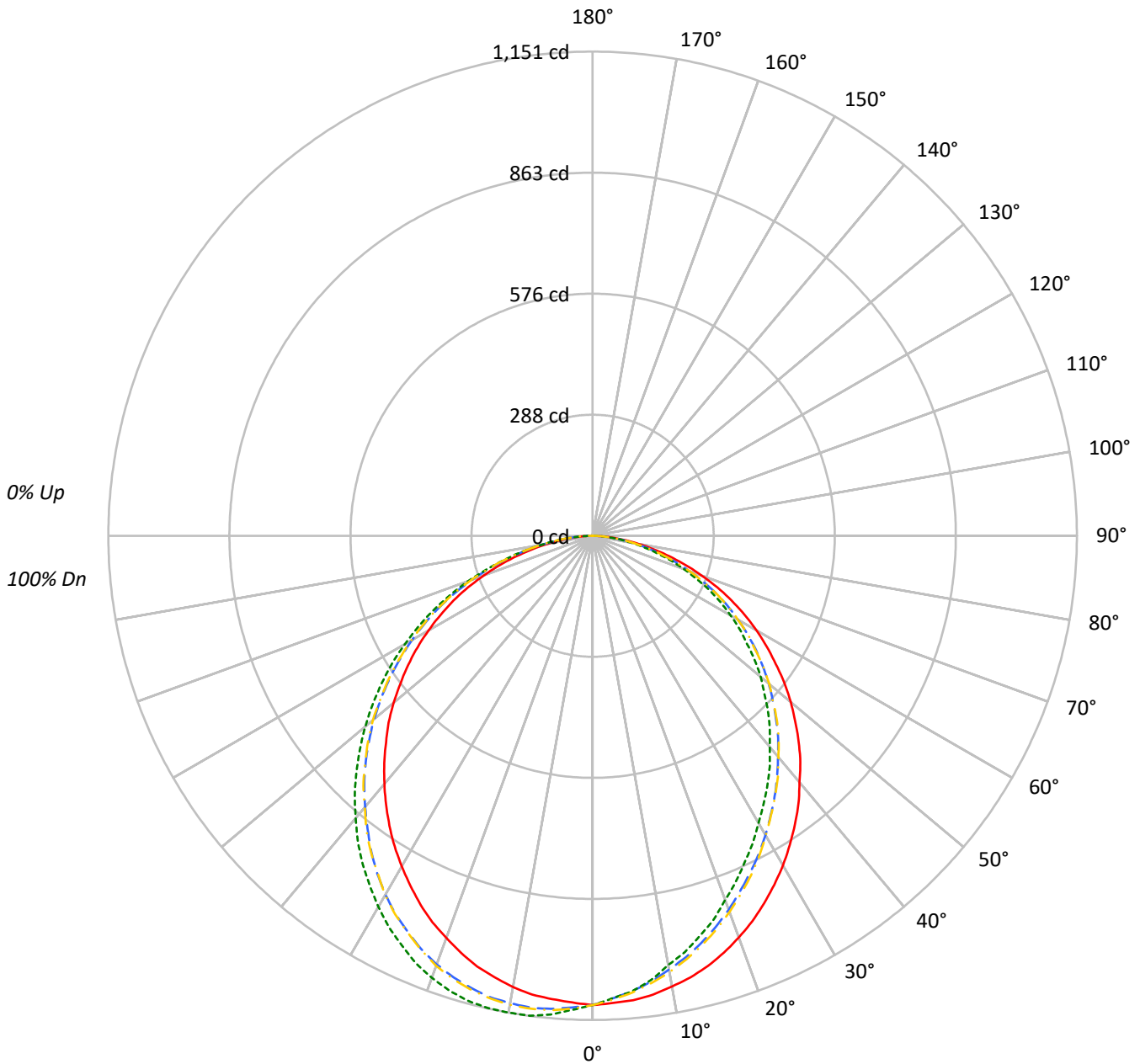
Lumens per Lamp: N/A
Luminaire Lumens: 2992.0 lumens
Efficiency: N/A
Efficacy: 70.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 42.7
Input Voltage (V): NR
Input Current (A_{in}): 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°	10293	10293	10293	10293
5°	10263	10063	10239	10578
10°	10191	9707	10203	10782
15°	10113	9403	10126	10933
20°	9975	9046	9987	10978
25°	9815	8711	9853	10933
30°	9639	8403	9666	10850
35°	9437	8158	9480	10733
40°	9211	7888	9273	10548
45°	9040	7690	9056	10357
50°	8823	7481	8857	10125
55°	8546	7206	8606	9846
60°	8289	6986	8315	9501
65°	7960	6696	7960	9093
70°	7421	6196	7389	8476
75°	6748	5625	6659	7607
80°	5834	4830	5637	6509
85°	4552	3610	4277	5346



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.4	3.5
10°-20°	299.2	10.0
20°-30°	444.8	14.9
30°-40°	524.2	17.5
40°-50°	533.8	17.8
50°-60°	475.5	15.9
60°-70°	358.2	12.0
70°-80°	199.2	6.7
80°-90°	51.8	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°	849.3	28.4
0°-40°	1373.5	45.9
0°-60°	2382.8	79.6
0°-90°	2992.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2992.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1116	1116	1116	1116	1116	
5°	1108	1087	1106	1142	1108	105
15°	1059	984	1060	1145	1059	298
25°	964	856	968	1074	964	444
35°	838	724	842	953	838	524
45°	693	589	694	794	693	534
55°	531	448	535	612	531	476
65°	365	307	365	416	365	360
75°	189	158	187	213	189	201
85°	43	34	40	50	43	52
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°	1115.6	1115.6	1115.6	1115.6	1115.6	1115.6	1115.6	1115.6	1115.6	1115.6	1115.6
2.5°	1111.8	1111.8	1113.0	1108.1	1101.8	1099.2	1098.0	1096.7	1099.2	1100.4	1099.2
5°	1108.1	1105.5	1103.0	1096.7	1089.1	1084.0	1081.5	1080.3	1082.8	1086.6	1082.8
7.5°	1100.4	1095.4	1090.3	1081.5	1072.8	1065.1	1061.3	1058.8	1061.3	1065.1	1062.5
10°	1087.8	1081.5	1074.0	1063.9	1051.3	1042.4	1038.7	1034.9	1036.1	1036.1	1036.1
12.5°	1075.2	1066.5	1057.6	1045.0	1031.0	1020.9	1014.6	1009.7	1012.1	1013.4	1013.4
15°	1058.8	1047.5	1034.9	1020.9	1007.1	995.7	988.2	983.1	984.4	984.4	985.6
17.5°	1038.7	1026.0	1013.4	997.0	980.5	967.9	959.2	952.9	955.3	956.6	957.8
20°	1016.0	1002.0	988.2	970.4	952.9	938.9	930.0	922.5	921.3	921.3	922.5
22.5°	991.9	976.8	960.4	941.4	922.5	907.3	898.5	891.0	889.8	889.8	891.0
25°	964.1	947.8	931.4	912.4	892.2	877.1	865.7	858.2	856.9	855.7	858.2
27.5°	935.1	918.8	902.4	883.5	862.0	846.8	835.4	827.9	825.3	824.1	826.7
30°	904.8	885.9	868.3	848.0	829.1	814.0	802.6	793.8	791.3	788.8	791.3
32.5°	872.0	853.1	834.2	814.0	795.1	779.9	768.5	759.8	757.2	755.9	758.4
35°	837.9	819.0	801.4	781.1	762.2	747.2	735.8	728.2	725.7	724.3	725.7
37.5°	803.8	785.0	767.3	747.2	728.2	713.1	701.7	694.1	692.8	691.6	692.8
40°	764.8	748.4	730.7	711.7	692.8	677.8	668.9	660.0	657.5	654.9	658.8
42.5°	730.7	714.3	696.7	679.0	660.0	644.9	634.8	627.3	624.7	623.4	624.7
45°	692.8	675.2	657.5	641.1	623.4	609.6	599.5	591.8	590.6	589.4	590.6
47.5°	652.5	637.3	622.2	605.8	588.1	574.2	565.4	557.9	555.3	552.8	555.3
50°	614.7	599.5	584.3	569.1	552.8	540.1	531.3	523.8	522.4	521.2	522.4
52.5°	574.2	559.1	545.2	530.1	516.1	503.5	494.8	488.5	487.1	485.9	487.1
55°	531.3	518.7	506.0	493.4	479.6	468.2	460.7	453.0	450.6	448.0	450.6
57.5°	490.9	479.6	467.0	454.3	441.7	431.7	424.0	417.7	416.5	415.1	416.5
60°	449.2	439.2	427.8	416.5	403.9	393.8	387.5	382.4	379.8	378.6	379.8
62.5°	407.6	397.6	388.7	377.3	366.0	358.3	352.0	347.1	344.5	343.3	344.5
65°	364.6	355.9	347.1	337.0	328.1	320.5	314.2	309.2	307.9	306.7	306.7
67.5°	320.5	313.0	305.5	296.6	286.5	278.9	272.5	268.8	267.6	266.2	267.6
70°	275.1	268.8	261.3	253.6	246.1	239.8	236.0	232.3	230.9	229.7	229.7
72.5°	232.3	227.2	220.9	214.6	208.2	201.9	198.2	195.6	194.4	193.1	193.1
75°	189.3	184.2	180.4	175.5	169.2	165.3	161.5	159.0	157.8	157.8	157.8
77.5°	148.9	145.1	141.4	136.3	132.5	128.8	126.2	125.0	123.7	123.7	123.7
80°	109.8	107.3	104.7	102.2	98.4	94.7	93.5	92.1	90.9	90.9	90.9
82.5°	74.5	73.2	70.6	68.2	65.7	64.3	63.1	61.9	61.9	61.9	61.9
85°	43.0	41.6	40.4	39.1	37.9	37.9	36.7	35.3	34.1	34.1	34.1
87.5°	17.7	17.7	17.7	16.4	15.2	15.2	15.2	15.2	15.2	15.2	15.2
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):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1115.6	1115.6	1115.6	1115.6	1115.6	1115.6	1115.6	1115.6	1115.6	1115.6	1115.6
2.5°	1096.7	1099.2	1101.8	1105.5	1109.3	1113.0	1111.8	1110.6	1115.6	1121.9	1123.2
5°	1080.3	1082.8	1086.6	1092.9	1099.2	1104.3	1105.5	1105.5	1115.6	1124.4	1127.0
7.5°	1060.1	1063.9	1068.9	1075.2	1084.0	1091.7	1095.4	1100.4	1110.6	1121.9	1127.0
10°	1034.9	1041.2	1048.7	1057.6	1066.5	1075.2	1082.8	1089.1	1101.8	1114.4	1121.9
12.5°	1012.1	1018.4	1026.0	1036.1	1047.5	1058.8	1066.5	1075.2	1090.3	1105.5	1114.4
15°	986.8	993.1	1002.0	1012.1	1024.7	1037.3	1048.7	1060.1	1075.2	1091.7	1101.8
17.5°	959.2	965.5	974.2	986.8	1000.8	1014.6	1027.2	1039.9	1057.6	1075.2	1086.6
20°	925.1	933.9	945.2	957.8	974.2	990.7	1003.3	1017.2	1036.1	1055.0	1067.7
22.5°	892.2	901.0	913.7	928.8	946.6	964.1	979.3	994.5	1014.6	1033.5	1047.5
25°	860.6	870.8	883.5	898.5	915.0	932.6	950.3	967.9	988.2	1008.3	1022.3
27.5°	829.1	837.9	850.5	865.7	884.7	902.4	920.0	937.7	959.2	980.5	995.7
30°	793.8	803.8	815.2	830.4	850.5	870.8	888.4	907.3	928.8	950.3	965.5
32.5°	761.0	769.9	781.1	796.3	816.4	836.7	855.7	875.8	896.1	917.4	932.6
35°	728.2	737.0	748.4	763.6	783.7	803.8	822.8	841.7	862.0	882.1	897.3
37.5°	695.3	704.2	715.6	730.7	749.6	769.9	787.4	806.4	826.7	846.8	860.6
40°	661.2	670.1	679.0	694.1	713.1	733.2	750.9	769.9	790.0	810.1	824.1
42.5°	627.3	636.0	647.4	662.6	680.2	697.9	715.6	733.2	752.1	771.1	785.0
45°	593.2	600.7	612.1	625.9	643.7	660.0	677.8	694.1	713.1	730.7	744.6
47.5°	557.9	565.4	574.2	588.1	605.8	623.4	641.1	657.5	673.9	691.6	704.2
50°	523.8	531.3	541.3	554.0	570.5	586.9	602.0	617.1	633.6	650.0	661.2
52.5°	488.5	496.0	504.8	517.5	531.3	546.4	560.3	575.4	590.6	605.8	617.1
55°	453.0	458.1	465.6	477.0	492.2	507.4	521.2	535.0	549.0	561.6	572.9
57.5°	417.7	424.0	432.9	442.9	455.5	468.2	480.8	493.4	506.0	518.7	528.7
60°	382.4	387.5	393.8	402.5	415.1	426.6	439.2	450.6	461.9	473.3	482.1
62.5°	345.7	350.8	357.1	366.0	376.1	386.1	397.6	407.6	417.7	427.8	436.6
65°	307.9	313.0	319.3	326.8	335.7	344.5	354.6	364.6	372.3	379.8	388.7
67.5°	268.8	273.9	280.2	286.5	294.0	302.9	311.8	320.5	328.1	335.7	342.0
70°	230.9	234.7	241.0	246.1	252.4	258.7	266.2	273.9	278.9	285.2	292.8
72.5°	194.4	198.2	203.1	208.2	212.0	217.1	224.6	230.9	237.2	244.9	248.7
75°	159.0	161.5	165.3	169.2	172.9	176.7	181.8	186.8	191.9	195.6	200.7
77.5°	123.7	126.2	130.0	132.5	135.1	137.6	141.4	145.1	148.9	151.4	156.6
80°	90.9	93.5	95.9	98.4	101.0	103.5	104.7	106.1	111.0	114.8	117.3
82.5°	61.9	63.1	64.3	66.9	68.2	69.4	70.6	70.6	73.2	75.7	79.5
85°	35.3	36.7	37.9	37.9	37.9	37.9	39.1	40.4	41.6	44.2	46.7
87.5°	13.8	13.8	15.2	15.2	15.2	15.2	15.2	15.2	16.4	18.9	20.1
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°	1115.6	1115.6	1115.6	1115.6	1115.6	1115.6	1115.6	1115.6	1115.6	1115.6	1115.6
2.5°	1121.9	1123.2	1125.6	1127.0	1128.2	1128.2	1129.6	1130.8	1128.2	1125.6	1124.4
5°	1128.2	1129.6	1133.3	1137.1	1139.6	1142.2	1140.8	1139.6	1137.1	1133.3	1130.8
7.5°	1129.6	1133.3	1137.1	1142.2	1145.9	1150.9	1148.5	1145.9	1140.8	1135.9	1132.0
10°	1125.6	1130.8	1137.1	1143.4	1147.1	1150.9	1148.5	1145.9	1140.8	1134.5	1129.6
12.5°	1120.7	1127.0	1134.5	1140.8	1144.6	1149.7	1145.9	1142.2	1135.9	1129.6	1123.2
15°	1109.3	1116.9	1125.6	1133.3	1139.6	1144.6	1140.8	1138.3	1130.8	1121.9	1113.0
17.5°	1095.4	1105.5	1114.4	1123.2	1128.2	1133.3	1130.8	1128.2	1119.3	1109.3	1099.2
20°	1079.1	1089.1	1098.0	1106.7	1113.0	1118.1	1114.4	1110.6	1101.8	1092.9	1082.8
22.5°	1058.8	1068.9	1079.1	1087.8	1094.1	1099.2	1094.1	1087.8	1079.1	1070.2	1060.1
25°	1033.5	1045.0	1056.2	1065.1	1068.9	1074.0	1068.9	1063.9	1055.0	1046.2	1034.9
27.5°	1008.3	1019.7	1031.0	1039.9	1043.6	1048.7	1043.6	1038.7	1029.8	1020.9	1009.7
30°	979.3	990.7	1002.0	1010.9	1014.6	1018.4	1013.4	1008.3	1000.8	991.9	980.5
32.5°	946.6	957.8	966.7	975.6	980.5	985.6	980.5	976.8	967.9	956.6	945.2
35°	911.1	922.5	933.9	942.6	947.8	952.9	946.6	940.2	932.6	923.7	913.7
37.5°	872.0	884.7	897.3	907.3	911.1	916.2	911.1	904.8	897.3	888.4	877.1
40°	835.4	846.8	858.2	868.3	872.0	875.8	870.8	865.7	856.9	848.0	836.7
42.5°	797.7	808.9	819.0	827.9	831.6	836.7	831.6	825.3	819.0	811.5	801.4
45°	757.2	768.5	777.4	786.2	790.0	793.8	788.8	782.5	776.2	769.9	759.8
47.5°	715.6	725.7	734.6	743.3	745.8	749.6	744.6	740.9	734.6	728.2	719.4
50°	672.7	682.7	691.6	699.1	701.7	705.4	700.5	695.3	690.4	685.3	677.8
52.5°	628.5	637.3	646.2	653.7	656.3	658.8	653.7	648.6	643.7	638.5	631.0
55°	583.1	591.8	600.7	607.0	609.6	612.1	607.0	603.2	598.1	594.4	586.9
57.5°	537.6	546.4	554.0	560.3	562.8	565.4	560.3	555.3	551.6	547.6	541.3
60°	490.9	499.7	506.0	511.1	513.7	514.9	509.8	506.0	503.5	501.1	494.8
62.5°	445.5	451.8	458.1	461.9	464.4	465.6	461.9	459.3	456.9	454.3	449.2
65°	397.6	405.1	410.2	413.9	415.1	416.5	412.7	410.2	407.6	405.1	401.3
67.5°	349.6	355.9	359.7	363.4	364.6	364.6	364.6	363.4	360.9	357.1	353.4
70°	301.5	306.7	310.4	313.0	314.2	314.2	311.8	309.2	309.2	307.9	305.5
72.5°	252.4	256.2	258.7	261.3	261.3	261.3	261.3	262.5	261.3	258.7	255.0
75°	205.7	209.4	212.0	213.4	213.4	213.4	213.4	214.6	213.4	212.0	209.4
77.5°	161.5	164.1	165.3	166.6	166.6	166.6	167.8	169.2	167.8	166.6	165.3
80°	119.9	121.1	122.5	123.7	122.5	122.5	123.7	126.2	125.0	123.7	122.5
82.5°	82.0	83.2	84.6	84.6	85.8	87.1	87.1	87.1	87.1	85.8	84.6
85°	49.3	50.5	50.5	50.5	50.5	50.5	51.7	53.0	53.0	51.7	51.7
87.5°	22.7	24.0	22.7	21.5	20.1	20.1	22.7	25.2	25.2	24.0	24.0
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: P735619

CATALOG NUMBER: 4APN6-34-B2750-W2D-CP125-3000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	1115.6	1115.6	1115.6	1115.6
2.5°	1125.6	1124.4	1118.1	1111.8
5°	1129.6	1125.6	1116.9	1108.1
7.5°	1129.6	1124.4	1111.8	1100.4
10°	1123.2	1115.6	1101.8	1087.8
12.5°	1115.6	1106.7	1090.3	1075.2
15°	1104.3	1094.1	1076.5	1058.8
17.5°	1087.8	1075.2	1057.6	1038.7
20°	1071.4	1057.6	1036.1	1016.0
22.5°	1048.7	1036.1	1013.4	991.9
25°	1023.5	1009.7	986.8	964.1
27.5°	997.0	980.5	957.8	935.1
30°	966.7	950.3	927.6	904.8
32.5°	933.9	918.8	896.1	872.0
35°	901.0	884.7	862.0	837.9
37.5°	864.5	849.3	826.7	803.8
40°	825.3	810.1	787.4	764.8
42.5°	788.8	774.8	752.1	730.7
45°	748.4	734.6	713.1	692.8
47.5°	706.8	692.8	672.7	652.5
50°	666.3	652.5	633.6	614.7
52.5°	621.0	609.6	591.8	574.2
55°	576.8	565.4	547.6	531.3
57.5°	532.6	522.4	506.0	490.9
60°	485.9	475.8	463.2	449.2
62.5°	441.7	432.9	420.2	407.6
65°	395.0	387.5	376.1	364.6
67.5°	347.1	340.8	330.7	320.5
70°	299.1	291.5	284.0	275.1
72.5°	251.2	247.3	239.8	232.3
75°	205.7	201.9	195.6	189.3
77.5°	162.9	159.0	154.0	148.9
80°	119.9	117.3	113.6	109.8
82.5°	83.2	80.8	78.3	74.5
85°	50.5	47.9	45.4	43.0
87.5°	22.7	21.5	18.9	17.7
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)