

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: P735618

Luminaire Tested: **4APN6-34-B2750-W2D-CP125-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735618
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-CP125-2700K
Description: 4FT 3400 AMBIENT LUMEN OUTPUT APN WITH BIO UP LEDS AT 2700K CCT, AND CP125 LENS

Light Source: -
Ballast/Driver: -

Summary

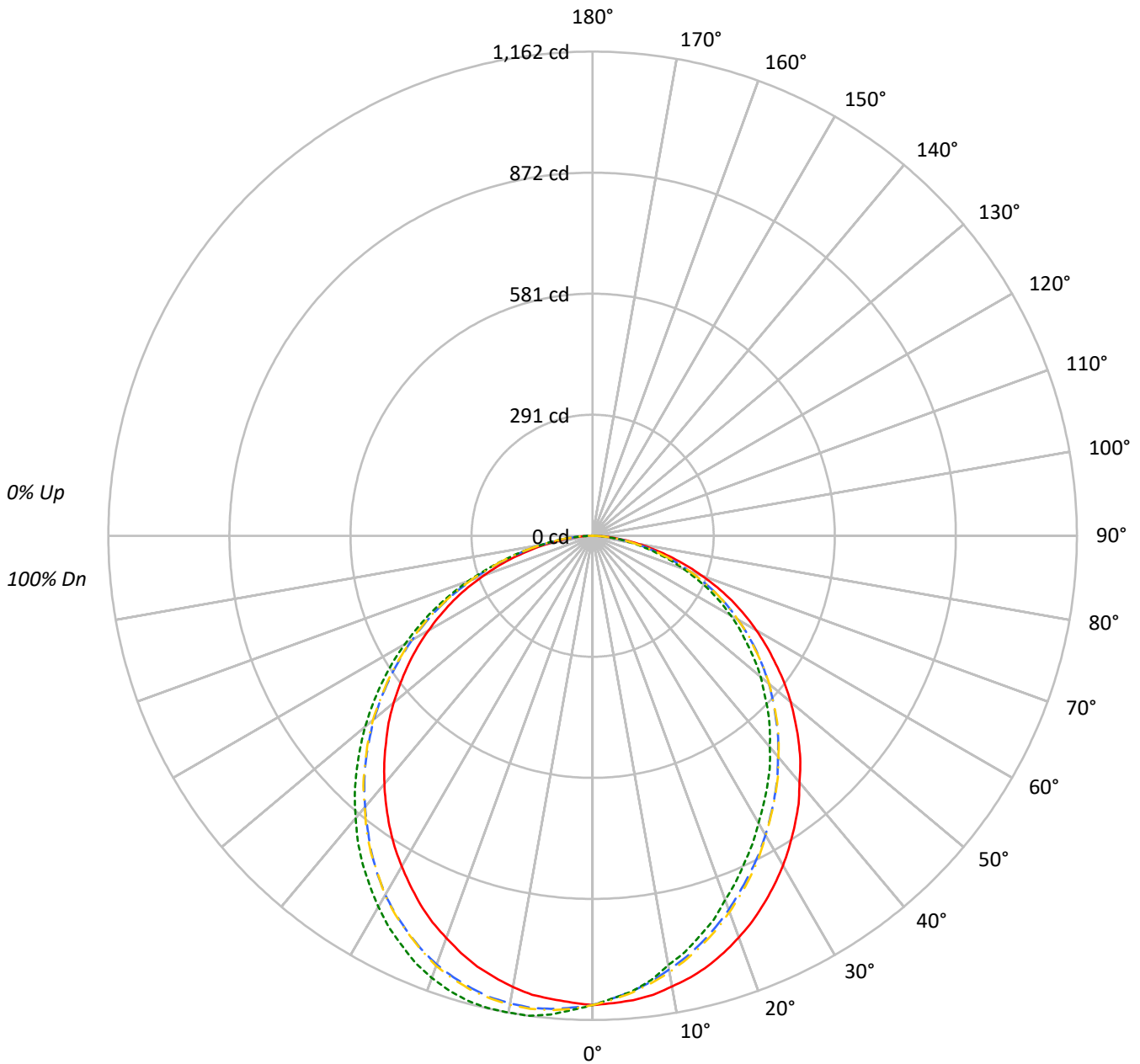
Lumens per Lamp: N/A
Luminaire Lumens: 3021.0 lumens
Efficiency: N/A
Efficacy: 70.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 42.7
Input Voltage (V): NR
Input Current (Ain): 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				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
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84				84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	70				70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59				59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51				51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44				44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	41	38				38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34				34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30				30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27				27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25				25

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10392	10392	10392	10392
5°	10362	10161	10338	10680
10°	10289	9800	10303	10886
15°	10212	9494	10224	11039
20°	10072	9133	10083	11085
25°	9910	8794	9949	11039
30°	9733	8484	9760	10954
35°	9529	8238	9571	10836
40°	9300	7965	9362	10650
45°	9127	7765	9145	10457
50°	8908	7554	8942	10223
55°	8628	7277	8689	9941
60°	8370	7054	8396	9593
65°	8038	6759	8038	9180
70°	7494	6258	7461	8557
75°	6812	5679	6723	7678
80°	5892	4877	5690	6567
85°	4594	3642	4319	5399



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.4	3.5
10°-20°	302.1	10.0
20°-30°	449.1	14.9
30°-40°	529.3	17.5
40°-50°	538.9	17.8
50°-60°	480.1	15.9
60°-70°	361.7	12.0
70°-80°	201.2	6.7
80°-90°	52.3	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°	857.6	28.4
0°-40°	1386.8	45.9
0°-60°	2405.9	79.6
0°-90°	3021.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3021.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1126	1126	1126	1126	1126	
5°	1119	1097	1116	1153	1119	106
15°	1069	994	1070	1156	1069	301
25°	974	864	977	1084	974	448
35°	846	731	850	962	846	529
45°	700	595	701	801	700	539
55°	536	452	540	618	536	481
65°	368	310	368	420	368	363
75°	191	159	189	215	191	203
85°	43	34	41	51	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°	1126.4	1126.4	1126.4	1126.4	1126.4	1126.4	1126.4	1126.4	1126.4	1126.4	1126.4
2.5°	1122.6	1122.6	1123.8	1118.8	1112.4	1109.9	1108.6	1107.3	1109.9	1111.1	1109.9
5°	1118.8	1116.2	1113.7	1107.3	1099.7	1094.5	1092.0	1090.7	1093.3	1097.1	1093.3
7.5°	1111.1	1106.1	1100.9	1092.0	1083.2	1075.4	1071.6	1069.1	1071.6	1075.4	1072.8
10°	1098.3	1092.0	1084.4	1074.2	1061.5	1052.5	1048.7	1044.9	1046.1	1046.1	1046.1
12.5°	1085.6	1076.8	1067.8	1055.1	1041.0	1030.8	1024.5	1019.4	1021.9	1023.2	1023.2
15°	1069.1	1057.7	1044.9	1030.8	1016.9	1005.3	997.8	992.6	994.0	994.0	995.2
17.5°	1048.7	1036.0	1023.2	1006.7	990.0	977.3	968.5	962.1	964.5	965.9	967.1
20°	1025.8	1011.7	997.8	979.9	962.1	948.0	939.0	931.5	930.2	930.2	931.5
22.5°	1001.5	986.2	969.7	950.6	931.5	916.1	907.2	899.6	898.4	898.4	899.6
25°	973.5	956.9	940.4	921.3	900.8	885.6	874.1	866.5	865.2	863.9	866.5
27.5°	944.2	927.7	911.1	892.0	870.3	855.0	843.5	835.9	833.3	832.1	834.7
30°	913.6	894.4	876.7	856.2	837.1	821.9	810.4	801.4	799.0	796.4	799.0
32.5°	880.5	861.4	842.3	821.9	802.8	787.5	776.0	767.2	764.6	763.2	765.8
35°	846.0	826.9	809.2	788.7	769.6	754.4	742.9	735.3	732.7	731.4	732.7
37.5°	811.6	792.6	774.7	754.4	735.3	720.0	708.5	700.9	699.5	698.3	699.5
40°	772.2	755.6	737.7	718.6	699.5	684.3	675.4	666.4	663.9	661.3	665.2
42.5°	737.7	721.2	703.4	685.5	666.4	651.1	640.9	633.4	630.8	629.4	630.8
45°	699.5	681.8	663.9	647.3	629.4	615.5	605.3	597.6	596.3	595.1	596.3
47.5°	658.8	643.5	628.2	611.7	593.8	579.8	570.9	563.3	560.7	558.1	560.7
50°	620.6	605.3	590.0	574.7	558.1	545.4	536.4	528.8	527.5	526.3	527.5
52.5°	579.8	564.5	550.5	535.2	521.1	508.4	499.6	493.2	491.8	490.6	491.8
55°	536.4	523.7	510.9	498.2	484.2	472.7	465.1	457.4	455.0	452.4	455.0
57.5°	495.6	484.2	471.5	458.8	446.0	435.8	428.1	421.7	420.5	419.2	420.5
60°	453.6	443.4	431.9	420.5	407.8	397.6	391.2	386.1	383.5	382.3	383.5
62.5°	411.6	401.4	392.5	380.9	369.5	361.8	355.4	350.4	347.9	346.6	347.9
65°	368.2	359.4	350.4	340.3	331.3	323.6	317.2	312.2	310.8	309.6	309.6
67.5°	323.6	316.0	308.4	299.5	289.3	281.6	275.2	271.4	270.2	268.8	270.2
70°	277.8	271.4	263.8	256.1	248.5	242.1	238.3	234.5	233.2	232.0	232.0
72.5°	234.5	229.4	223.0	216.6	210.3	203.9	200.1	197.5	196.3	194.9	194.9
75°	191.1	186.0	182.2	177.2	170.8	166.9	163.1	160.5	159.3	159.3	159.3
77.5°	150.3	146.5	142.8	137.6	133.8	130.0	127.4	126.2	124.9	124.9	124.9
80°	110.9	108.3	105.7	103.2	99.4	95.6	94.4	93.0	91.8	91.8	91.8
82.5°	75.2	73.9	71.3	68.9	66.3	64.9	63.7	62.5	62.5	62.5	62.5
85°	43.4	42.0	40.8	39.4	38.2	38.2	37.0	35.7	34.4	34.4	34.4
87.5°	17.9	17.9	17.9	16.5	15.3	15.3	15.3	15.3	15.3	15.3	15.3
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°	1126.4	1126.4	1126.4	1126.4	1126.4	1126.4	1126.4	1126.4	1126.4	1126.4	1126.4
2.5°	1107.3	1109.9	1112.4	1116.2	1120.0	1123.8	1122.6	1121.4	1126.4	1132.8	1134.1
5°	1090.7	1093.3	1097.1	1103.5	1109.9	1115.0	1116.2	1116.2	1126.4	1135.3	1137.9
7.5°	1070.4	1074.2	1079.2	1085.6	1094.5	1102.3	1106.1	1111.1	1121.4	1132.8	1137.9
10°	1044.9	1051.3	1058.9	1067.8	1076.8	1085.6	1093.3	1099.7	1112.4	1125.2	1132.8
12.5°	1021.9	1028.2	1036.0	1046.1	1057.7	1069.1	1076.8	1085.6	1100.9	1116.2	1125.2
15°	996.4	1002.8	1011.7	1021.9	1034.6	1047.4	1058.9	1070.4	1085.6	1102.3	1112.4
17.5°	968.5	974.8	983.6	996.4	1010.5	1024.5	1037.2	1049.9	1067.8	1085.6	1097.1
20°	934.0	943.0	954.4	967.1	983.6	1000.3	1013.1	1027.0	1046.1	1065.3	1078.0
22.5°	900.8	909.8	922.5	937.8	955.7	973.5	988.8	1004.1	1024.5	1043.6	1057.7
25°	869.0	879.3	892.0	907.2	923.9	941.6	959.5	977.3	997.8	1018.1	1032.2
27.5°	837.1	846.0	858.8	874.1	893.2	911.1	928.9	946.8	968.5	990.0	1005.3
30°	801.4	811.6	823.1	838.5	858.8	879.3	897.0	916.1	937.8	959.5	974.8
32.5°	768.4	777.3	788.7	804.0	824.4	844.8	863.9	884.3	904.8	926.3	941.6
35°	735.3	744.1	755.6	771.0	791.3	811.6	830.7	849.8	870.3	890.6	906.0
37.5°	702.1	711.0	722.6	737.7	756.8	777.3	795.1	814.2	834.7	855.0	869.0
40°	667.6	676.6	685.5	700.9	720.0	740.3	758.2	777.3	797.7	818.0	832.1
42.5°	633.4	642.2	653.7	669.0	686.8	704.7	722.6	740.3	759.4	778.5	792.6
45°	598.9	606.5	618.0	632.0	649.9	666.4	684.3	700.9	720.0	737.7	751.8
47.5°	563.3	570.9	579.8	593.8	611.7	629.4	647.3	663.9	680.4	698.3	711.0
50°	528.8	536.4	546.6	559.3	576.0	592.6	607.9	623.0	639.7	656.3	667.6
52.5°	493.2	500.8	509.7	522.5	536.4	551.7	565.7	581.0	596.3	611.7	623.0
55°	457.4	462.5	470.1	481.7	497.0	512.3	526.3	540.2	554.3	567.1	578.4
57.5°	421.7	428.1	437.1	447.2	460.0	472.7	485.4	498.2	510.9	523.7	533.8
60°	386.1	391.2	397.6	406.4	419.2	430.7	443.4	455.0	466.3	477.9	486.8
62.5°	349.1	354.2	360.6	369.5	379.7	389.9	401.4	411.6	421.7	431.9	440.8
65°	310.8	316.0	322.4	330.0	338.9	347.9	358.0	368.2	375.9	383.5	392.5
67.5°	271.4	276.6	282.9	289.3	296.9	305.8	314.8	323.6	331.3	338.9	345.3
70°	233.2	237.0	243.3	248.5	254.9	261.2	268.8	276.6	281.6	287.9	295.7
72.5°	196.3	200.1	205.1	210.3	214.1	219.2	226.8	233.2	239.5	247.3	251.1
75°	160.5	163.1	166.9	170.8	174.6	178.4	183.6	188.6	193.7	197.5	202.7
77.5°	124.9	127.4	131.2	133.8	136.4	139.0	142.8	146.5	150.3	152.9	158.1
80°	91.8	94.4	96.8	99.4	101.9	104.5	105.7	107.1	112.1	115.9	118.5
82.5°	62.5	63.7	64.9	67.5	68.9	70.1	71.3	71.3	73.9	76.5	80.3
85°	35.7	37.0	38.2	38.2	38.2	38.2	39.4	40.8	42.0	44.6	47.2
87.5°	14.0	14.0	15.3	15.3	15.3	15.3	15.3	15.3	16.5	19.1	20.3
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°	1126.4	1126.4	1126.4	1126.4	1126.4	1126.4	1126.4	1126.4	1126.4	1126.4	1126.4
2.5°	1132.8	1134.1	1136.6	1137.9	1139.1	1139.1	1140.5	1141.7	1139.1	1136.6	1135.3
5°	1139.1	1140.5	1144.3	1148.1	1150.7	1153.2	1151.9	1150.7	1148.1	1144.3	1141.7
7.5°	1140.5	1144.3	1148.1	1153.2	1157.0	1162.0	1159.6	1157.0	1151.9	1146.9	1142.9
10°	1136.6	1141.7	1148.1	1154.5	1158.3	1162.0	1159.6	1157.0	1151.9	1145.5	1140.5
12.5°	1131.6	1137.9	1145.5	1151.9	1155.7	1160.8	1157.0	1153.2	1146.9	1140.5	1134.1
15°	1120.0	1127.8	1136.6	1144.3	1150.7	1155.7	1151.9	1149.3	1141.7	1132.8	1123.8
17.5°	1106.1	1116.2	1125.2	1134.1	1139.1	1144.3	1141.7	1139.1	1130.2	1120.0	1109.9
20°	1089.5	1099.7	1108.6	1117.4	1123.8	1129.0	1125.2	1121.4	1112.4	1103.5	1093.3
22.5°	1069.1	1079.2	1089.5	1098.3	1104.7	1109.9	1104.7	1098.3	1089.5	1080.6	1070.4
25°	1043.6	1055.1	1066.5	1075.4	1079.2	1084.4	1079.2	1074.2	1065.3	1056.3	1044.9
27.5°	1018.1	1029.6	1041.0	1049.9	1053.7	1058.9	1053.7	1048.7	1039.8	1030.8	1019.4
30°	988.8	1000.3	1011.7	1020.7	1024.5	1028.2	1023.2	1018.1	1010.5	1001.5	990.0
32.5°	955.7	967.1	976.1	985.0	990.0	995.2	990.0	986.2	977.3	965.9	954.4
35°	919.9	931.5	943.0	951.8	956.9	962.1	955.7	949.4	941.6	932.7	922.5
37.5°	880.5	893.2	906.0	916.1	919.9	925.1	919.9	913.6	906.0	897.0	885.6
40°	843.5	855.0	866.5	876.7	880.5	884.3	879.3	874.1	865.2	856.2	844.8
42.5°	805.4	816.8	826.9	835.9	839.7	844.8	839.7	833.3	826.9	819.3	809.2
45°	764.6	776.0	784.9	793.9	797.7	801.4	796.4	790.1	783.7	777.3	767.2
47.5°	722.6	732.7	741.7	750.5	753.1	756.8	751.8	748.0	741.7	735.3	726.4
50°	679.2	689.3	698.3	705.9	708.5	712.2	707.2	702.1	697.1	691.9	684.3
52.5°	634.6	643.5	652.5	660.1	662.6	665.2	660.1	654.9	649.9	644.7	637.2
55°	588.8	597.6	606.5	612.9	615.5	618.0	612.9	609.1	603.9	600.1	592.6
57.5°	542.8	551.7	559.3	565.7	568.3	570.9	565.7	560.7	556.9	553.0	546.6
60°	495.6	504.6	510.9	516.1	518.7	519.9	514.7	510.9	508.4	505.9	499.6
62.5°	449.8	456.2	462.5	466.3	468.9	470.1	466.3	463.8	461.3	458.8	453.6
65°	401.4	409.0	414.1	417.9	419.2	420.5	416.7	414.1	411.6	409.0	405.2
67.5°	353.0	359.4	363.2	367.0	368.2	368.2	368.2	367.0	364.4	360.6	356.8
70°	304.5	309.6	313.4	316.0	317.2	317.2	314.8	312.2	312.2	310.8	308.4
72.5°	254.9	258.7	261.2	263.8	263.8	263.8	263.8	265.0	263.8	261.2	257.4
75°	207.7	211.5	214.1	215.4	215.4	215.4	215.4	216.6	215.4	214.1	211.5
77.5°	163.1	165.7	166.9	168.2	168.2	168.2	169.5	170.8	169.5	168.2	166.9
80°	121.1	122.3	123.6	124.9	123.6	123.6	124.9	127.4	126.2	124.9	123.6
82.5°	82.8	84.0	85.4	85.4	86.6	88.0	88.0	88.0	88.0	86.6	85.4
85°	49.8	51.0	51.0	51.0	51.0	51.0	52.2	53.6	53.6	52.2	52.2
87.5°	22.9	24.3	22.9	21.7	20.3	20.3	22.9	25.5	25.5	24.3	24.3
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: P735618

CATALOG NUMBER: 4APN6-34-B2750-W2D-CP125-2700K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	1126.4	1126.4	1126.4	1126.4
2.5°	1136.6	1135.3	1129.0	1122.6
5°	1140.5	1136.6	1127.8	1118.8
7.5°	1140.5	1135.3	1122.6	1111.1
10°	1134.1	1126.4	1112.4	1098.3
12.5°	1126.4	1117.4	1100.9	1085.6
15°	1115.0	1104.7	1087.0	1069.1
17.5°	1098.3	1085.6	1067.8	1048.7
20°	1081.8	1067.8	1046.1	1025.8
22.5°	1058.9	1046.1	1023.2	1001.5
25°	1033.4	1019.4	996.4	973.5
27.5°	1006.7	990.0	967.1	944.2
30°	976.1	959.5	936.6	913.6
32.5°	943.0	927.7	904.8	880.5
35°	909.8	893.2	870.3	846.0
37.5°	872.9	857.6	834.7	811.6
40°	833.3	818.0	795.1	772.2
42.5°	796.4	782.3	759.4	737.7
45°	755.6	741.7	720.0	699.5
47.5°	713.6	699.5	679.2	658.8
50°	672.8	658.8	639.7	620.6
52.5°	627.0	615.5	597.6	579.8
55°	582.4	570.9	553.0	536.4
57.5°	537.8	527.5	510.9	495.6
60°	490.6	480.4	467.7	453.6
62.5°	446.0	437.1	424.3	411.6
65°	398.8	391.2	379.7	368.2
67.5°	350.4	344.1	333.9	323.6
70°	302.0	294.3	286.7	277.8
72.5°	253.6	249.7	242.1	234.5
75°	207.7	203.9	197.5	191.1
77.5°	164.4	160.5	155.5	150.3
80°	121.1	118.5	114.7	110.9
82.5°	84.0	81.6	79.0	75.2
85°	51.0	48.4	45.8	43.4
87.5°	22.9	21.7	19.1	17.9
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)