

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: P735621

Luminaire Tested: **4APN6-34-B2750-W2D-CP125-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735621
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-CP125-4000K
Description: 4FT 3400 AMBIENT LUMEN OUTPUT APN WITH BIO UP LEDS AT 4000K CCT, AND CP125 LENS

Light Source: -
Ballast/Driver: -

Summary

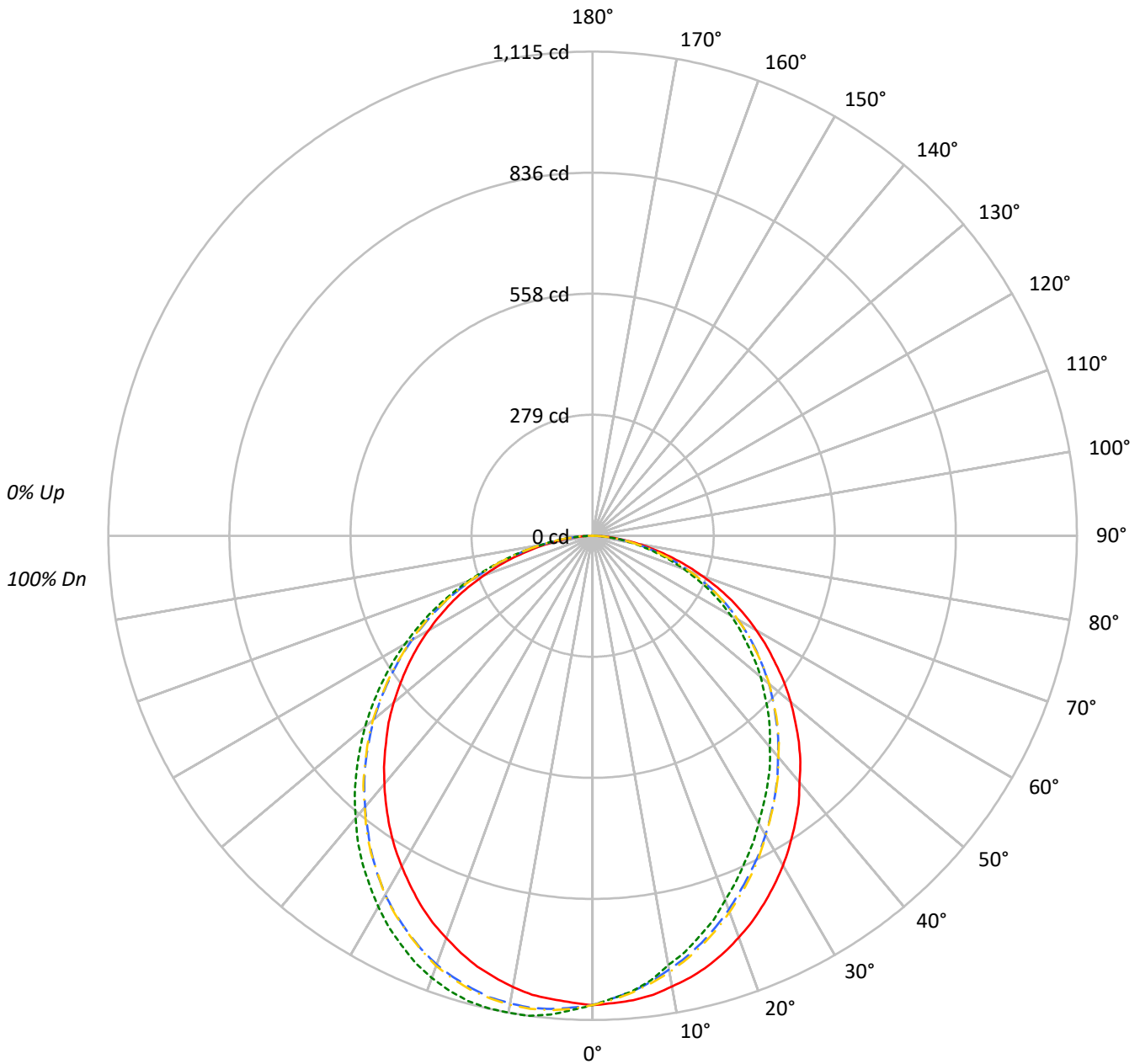
Lumens per Lamp: N/A
Luminaire Lumens: 2899.0 lumens
Efficiency: N/A
Efficacy: 67.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 42.7
Input Voltage (V): NR
Input Current (A_{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°	9973	9973	9973	9973
5°	9943	9750	9921	10250
10°	9874	9405	9887	10447
15°	9799	9110	9811	10593
20°	9665	8765	9677	10637
25°	9510	8440	9547	10593
30°	9340	8142	9365	10512
35°	9145	7904	9185	10398
40°	8925	7643	8984	10220
45°	8759	7452	8776	10035
50°	8549	7248	8582	9811
55°	8281	6983	8339	9540
60°	8032	6770	8056	9206
65°	7713	6486	7713	8809
70°	7192	6005	7159	8211
75°	6538	5450	6452	7368
80°	5653	4681	5462	6301
85°	4404	3493	4150	5176



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.1	3.5
10°-20°	289.9	10.0
20°-30°	430.9	14.9
30°-40°	507.9	17.5
40°-50°	517.2	17.8
50°-60°	460.7	15.9
60°-70°	347.1	12.0
70°-80°	193.0	6.7
80°-90°	50.2	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°	822.9	28.4
0°-40°	1330.8	45.9
0°-60°	2308.7	79.6
0°-90°	2899.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2899.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1081	1081	1081	1081	1081	
5°	1074	1053	1071	1107	1074	102
15°	1026	954	1027	1109	1026	289
25°	934	829	938	1041	934	430
35°	812	702	816	923	812	508
45°	671	571	673	769	671	517
55°	515	434	518	593	515	461
65°	353	297	353	404	353	349
75°	183	153	181	207	183	195
85°	42	33	39	49	42	50
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°	1080.9	1080.9	1080.9	1080.9	1080.9	1080.9	1080.9	1080.9	1080.9	1080.9	1080.9
2.5°	1077.3	1077.3	1078.4	1073.6	1067.5	1065.0	1063.9	1062.6	1065.0	1066.2	1065.0
5°	1073.6	1071.2	1068.7	1062.6	1055.3	1050.3	1047.9	1046.7	1049.2	1052.8	1049.2
7.5°	1066.2	1061.4	1056.5	1047.9	1039.4	1032.0	1028.4	1025.9	1028.4	1032.0	1029.5
10°	1054.0	1047.9	1040.6	1030.8	1018.6	1010.0	1006.4	1002.7	1003.9	1003.9	1003.9
12.5°	1041.7	1033.3	1024.7	1012.5	998.9	989.2	983.1	978.3	980.6	981.9	981.9
15°	1025.9	1015.0	1002.7	989.2	975.8	964.7	957.5	952.5	953.8	953.8	955.0
17.5°	1006.4	994.1	981.9	966.0	950.0	937.8	929.4	923.2	925.6	926.9	928.1
20°	984.4	970.9	957.5	940.3	923.2	909.7	901.1	893.8	892.7	892.7	893.8
22.5°	961.1	946.4	930.5	912.2	893.8	879.1	870.5	863.3	862.1	862.1	863.3
25°	934.2	918.3	902.4	884.1	864.4	849.9	838.8	831.5	830.2	829.1	831.5
27.5°	906.1	890.2	874.3	856.0	835.2	820.5	809.4	802.1	799.7	798.5	801.0
30°	876.7	858.3	841.3	821.6	803.3	788.7	777.7	769.1	766.8	764.3	766.8
32.5°	844.9	826.6	808.2	788.7	770.4	755.7	744.6	736.2	733.7	732.4	734.9
35°	811.9	793.5	776.5	756.9	738.5	724.0	712.9	705.6	703.1	701.8	703.1
37.5°	778.8	760.6	743.5	724.0	705.6	690.9	679.8	672.6	671.3	670.1	671.3
40°	741.0	725.1	707.9	689.6	671.3	656.7	648.1	639.5	637.0	634.6	638.4
42.5°	707.9	692.1	675.0	657.9	639.5	624.8	615.1	607.8	605.3	604.0	605.3
45°	671.3	654.2	637.0	621.2	604.0	590.6	580.9	573.4	572.3	571.1	572.3
47.5°	632.2	617.5	602.8	587.0	569.8	556.4	547.8	540.5	538.1	535.6	538.1
50°	595.6	580.9	566.1	551.4	535.6	523.3	514.8	507.5	506.2	505.0	506.2
52.5°	556.4	541.7	528.3	513.6	500.1	487.8	479.4	473.3	472.0	470.8	472.0
55°	514.8	502.5	490.3	478.1	464.7	453.6	446.3	438.9	436.6	434.1	436.6
57.5°	475.6	464.7	452.5	440.2	428.0	418.2	410.8	404.7	403.5	402.2	403.5
60°	435.3	425.5	414.5	403.5	391.3	381.6	375.4	370.5	368.0	366.9	368.0
62.5°	394.9	385.2	376.6	365.5	354.6	347.2	341.1	336.3	333.8	332.6	333.8
65°	353.3	344.9	336.3	326.5	317.9	310.5	304.4	299.6	298.3	297.1	297.1
67.5°	310.5	303.2	296.0	287.4	277.6	270.2	264.1	260.4	259.3	258.0	259.3
70°	266.6	260.4	253.2	245.7	238.5	232.3	228.7	225.1	223.8	222.6	222.6
72.5°	225.1	220.1	214.0	207.9	201.8	195.7	192.0	189.5	188.4	187.1	187.1
75°	183.4	178.5	174.8	170.0	163.9	160.1	156.5	154.0	152.9	152.9	152.9
77.5°	144.3	140.6	137.0	132.0	128.4	124.8	122.3	121.1	119.8	119.8	119.8
80°	106.4	103.9	101.5	99.0	95.4	91.7	90.5	89.2	88.1	88.1	88.1
82.5°	72.2	70.9	68.4	66.1	63.6	62.3	61.1	60.0	60.0	60.0	60.0
85°	41.6	40.3	39.2	37.8	36.7	36.7	35.5	34.2	33.0	33.0	33.0
87.5°	17.2	17.2	17.2	15.9	14.7	14.7	14.7	14.7	14.7	14.7	14.7
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°	1080.9	1080.9	1080.9	1080.9	1080.9	1080.9	1080.9	1080.9	1080.9	1080.9	1080.9
2.5°	1062.6	1065.0	1067.5	1071.2	1074.8	1078.4	1077.3	1076.1	1080.9	1087.0	1088.3
5°	1046.7	1049.2	1052.8	1058.9	1065.0	1070.0	1071.2	1071.2	1080.9	1089.5	1092.0
7.5°	1027.2	1030.8	1035.6	1041.7	1050.3	1057.8	1061.4	1066.2	1076.1	1087.0	1092.0
10°	1002.7	1008.8	1016.1	1024.7	1033.3	1041.7	1049.2	1055.3	1067.5	1079.7	1087.0
12.5°	980.6	986.7	994.1	1003.9	1015.0	1025.9	1033.3	1041.7	1056.5	1071.2	1079.7
15°	956.1	962.3	970.9	980.6	992.8	1005.1	1016.1	1027.2	1041.7	1057.8	1067.5
17.5°	929.4	935.5	943.9	956.1	969.7	983.1	995.3	1007.5	1024.7	1041.7	1052.8
20°	896.3	904.9	915.8	928.1	943.9	959.9	972.2	985.6	1003.9	1022.2	1034.5
22.5°	864.4	873.0	885.3	900.0	917.1	934.2	948.9	963.6	983.1	1001.4	1015.0
25°	833.9	843.8	856.0	870.5	886.6	903.6	920.8	937.8	957.5	977.0	990.5
27.5°	803.3	811.9	824.1	838.8	857.2	874.3	891.4	908.5	929.4	950.0	964.7
30°	769.1	778.8	789.9	804.6	824.1	843.8	860.8	879.1	900.0	920.8	935.5
32.5°	737.3	745.9	756.9	771.6	791.1	810.7	829.1	848.6	868.2	888.9	903.6
35°	705.6	714.1	725.1	739.8	759.3	778.8	797.2	815.5	835.2	854.7	869.4
37.5°	673.7	682.3	693.4	707.9	726.3	745.9	763.0	781.3	801.0	820.5	833.9
40°	640.7	649.3	657.9	672.6	690.9	710.4	727.6	745.9	765.4	784.9	798.5
42.5°	607.8	616.2	627.3	642.0	659.0	676.2	693.4	710.4	728.8	747.1	760.6
45°	574.7	582.0	593.1	606.5	623.7	639.5	656.7	672.6	690.9	707.9	721.5
47.5°	540.5	547.8	556.4	569.8	587.0	604.0	621.2	637.0	652.9	670.1	682.3
50°	507.5	514.8	524.5	536.7	552.8	568.6	583.3	597.9	613.9	629.8	640.7
52.5°	473.3	480.5	489.1	501.4	514.8	529.5	542.9	557.6	572.3	587.0	597.9
55°	438.9	443.9	451.1	462.2	476.9	491.6	505.0	518.4	531.9	544.2	555.1
57.5°	404.7	410.8	419.4	429.2	441.4	453.6	465.8	478.1	490.3	502.5	512.3
60°	370.5	375.4	381.6	390.0	402.2	413.3	425.5	436.6	447.5	458.6	467.2
62.5°	335.0	339.9	346.0	354.6	364.4	374.1	385.2	394.9	404.7	414.5	423.0
65°	298.3	303.2	309.4	316.6	325.2	333.8	343.6	353.3	360.7	368.0	376.6
67.5°	260.4	265.4	271.5	277.6	284.9	293.5	302.1	310.5	317.9	325.2	331.3
70°	223.8	227.4	233.5	238.5	244.6	250.7	258.0	265.4	270.2	276.3	283.7
72.5°	188.4	192.0	196.8	201.8	205.4	210.4	217.6	223.8	229.9	237.3	240.9
75°	154.0	156.5	160.1	163.9	167.6	171.2	176.1	181.0	185.9	189.5	194.5
77.5°	119.8	122.3	125.9	128.4	130.9	133.3	137.0	140.6	144.3	146.7	151.7
80°	88.1	90.5	92.9	95.4	97.8	100.3	101.5	102.8	107.6	111.2	113.7
82.5°	60.0	61.1	62.3	64.8	66.1	67.3	68.4	68.4	70.9	73.4	77.0
85°	34.2	35.5	36.7	36.7	36.7	36.7	37.8	39.2	40.3	42.8	45.3
87.5°	13.4	13.4	14.7	14.7	14.7	14.7	14.7	14.7	15.9	18.3	19.5
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°	1080.9	1080.9	1080.9	1080.9	1080.9	1080.9	1080.9	1080.9	1080.9	1080.9	1080.9
2.5°	1087.0	1088.3	1090.7	1092.0	1093.1	1093.1	1094.4	1095.6	1093.1	1090.7	1089.5
5°	1093.1	1094.4	1098.1	1101.7	1104.2	1106.7	1105.4	1104.2	1101.7	1098.1	1095.6
7.5°	1094.4	1098.1	1101.7	1106.7	1110.3	1115.1	1112.8	1110.3	1105.4	1100.6	1096.8
10°	1090.7	1095.6	1101.7	1107.8	1111.5	1115.1	1112.8	1110.3	1105.4	1099.2	1094.4
12.5°	1085.9	1092.0	1099.2	1105.4	1109.0	1114.0	1110.3	1106.7	1100.6	1094.4	1088.3
15°	1074.8	1082.2	1090.7	1098.1	1104.2	1109.0	1105.4	1102.9	1095.6	1087.0	1078.4
17.5°	1061.4	1071.2	1079.7	1088.3	1093.1	1098.1	1095.6	1093.1	1084.5	1074.8	1065.0
20°	1045.5	1055.3	1063.9	1072.3	1078.4	1083.4	1079.7	1076.1	1067.5	1058.9	1049.2
22.5°	1025.9	1035.6	1045.5	1054.0	1060.1	1065.0	1060.1	1054.0	1045.5	1036.9	1027.2
25°	1001.4	1012.5	1023.4	1032.0	1035.6	1040.6	1035.6	1030.8	1022.2	1013.7	1002.7
27.5°	977.0	988.0	998.9	1007.5	1011.2	1016.1	1011.2	1006.4	997.8	989.2	978.3
30°	948.9	959.9	970.9	979.4	983.1	986.7	981.9	977.0	969.7	961.1	950.0
32.5°	917.1	928.1	936.6	945.2	950.0	955.0	950.0	946.4	937.8	926.9	915.8
35°	882.8	893.8	904.9	913.3	918.3	923.2	917.1	911.0	903.6	895.0	885.3
37.5°	844.9	857.2	869.4	879.1	882.8	887.7	882.8	876.7	869.4	860.8	849.9
40°	809.4	820.5	831.5	841.3	844.9	848.6	843.8	838.8	830.2	821.6	810.7
42.5°	772.9	783.8	793.5	802.1	805.8	810.7	805.8	799.7	793.5	786.3	776.5
45°	733.7	744.6	753.2	761.8	765.4	769.1	764.3	758.2	752.0	745.9	736.2
47.5°	693.4	703.1	711.7	720.2	722.6	726.3	721.5	717.8	711.7	705.6	697.0
50°	651.7	661.5	670.1	677.4	679.8	683.5	678.7	673.7	668.9	664.0	656.7
52.5°	608.9	617.5	626.1	633.4	635.9	638.4	633.4	628.5	623.7	618.7	611.4
55°	565.0	573.4	582.0	588.1	590.6	593.1	588.1	584.5	579.5	575.9	568.6
57.5°	520.9	529.5	536.7	542.9	545.3	547.8	542.9	538.1	534.4	530.6	524.5
60°	475.6	484.2	490.3	495.3	497.7	498.9	493.9	490.3	487.8	485.5	479.4
62.5°	431.6	437.7	443.9	447.5	450.0	451.1	447.5	445.0	442.7	440.2	435.3
65°	385.2	392.5	397.4	401.1	402.2	403.5	399.9	397.4	394.9	392.5	388.8
67.5°	338.8	344.9	348.5	352.2	353.3	353.3	353.3	352.2	349.7	346.0	342.4
70°	292.2	297.1	300.8	303.2	304.4	304.4	302.1	299.6	299.6	298.3	296.0
72.5°	244.6	248.2	250.7	253.2	253.2	253.2	253.2	254.3	253.2	250.7	247.0
75°	199.3	202.9	205.4	206.7	206.7	206.7	206.7	207.9	206.7	205.4	202.9
77.5°	156.5	159.0	160.1	161.4	161.4	161.4	162.6	163.9	162.6	161.4	160.1
80°	116.2	117.3	118.6	119.8	118.6	118.6	119.8	122.3	121.1	119.8	118.6
82.5°	79.5	80.6	82.0	82.0	83.1	84.4	84.4	84.4	84.4	83.1	82.0
85°	47.7	48.9	48.9	48.9	48.9	48.9	50.1	51.4	51.4	50.1	50.1
87.5°	22.0	23.3	22.0	20.8	19.5	19.5	22.0	24.5	24.5	23.3	23.3
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: P735621

CATALOG NUMBER: 4APN6-34-B2750-W2D-CP125-4000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	1080.9	1080.9	1080.9	1080.9
2.5°	1090.7	1089.5	1083.4	1077.3
5°	1094.4	1090.7	1082.2	1073.6
7.5°	1094.4	1089.5	1077.3	1066.2
10°	1088.3	1080.9	1067.5	1054.0
12.5°	1080.9	1072.3	1056.5	1041.7
15°	1070.0	1060.1	1043.1	1025.9
17.5°	1054.0	1041.7	1024.7	1006.4
20°	1038.1	1024.7	1003.9	984.4
22.5°	1016.1	1003.9	981.9	961.1
25°	991.7	978.3	956.1	934.2
27.5°	966.0	950.0	928.1	906.1
30°	936.6	920.8	898.8	876.7
32.5°	904.9	890.2	868.2	844.9
35°	873.0	857.2	835.2	811.9
37.5°	837.6	822.9	801.0	778.8
40°	799.7	784.9	763.0	741.0
42.5°	764.3	750.7	728.8	707.9
45°	725.1	711.7	690.9	671.3
47.5°	684.8	671.3	651.7	632.2
50°	645.6	632.2	613.9	595.6
52.5°	601.7	590.6	573.4	556.4
55°	558.9	547.8	530.6	514.8
57.5°	516.1	506.2	490.3	475.6
60°	470.8	461.0	448.8	435.3
62.5°	428.0	419.4	407.2	394.9
65°	382.7	375.4	364.4	353.3
67.5°	336.3	330.2	320.4	310.5
70°	289.8	282.4	275.1	266.6
72.5°	243.4	239.6	232.3	225.1
75°	199.3	195.7	189.5	183.4
77.5°	157.8	154.0	149.2	144.3
80°	116.2	113.7	110.1	106.4
82.5°	80.6	78.3	75.8	72.2
85°	48.9	46.4	44.0	41.6
87.5°	22.0	20.8	18.3	17.2
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)