

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: P735624

Luminaire Tested: **4APN6-34-B2750-W2D-CP250-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735624
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-CP250-3000K
Description: 4FT 3400 AMBIENT LUMEN OUTPUT APN WITH BIO UP LEDS AT 3000K CCT, AND CP250 LENS

Light Source: -
Ballast/Driver: -

Summary

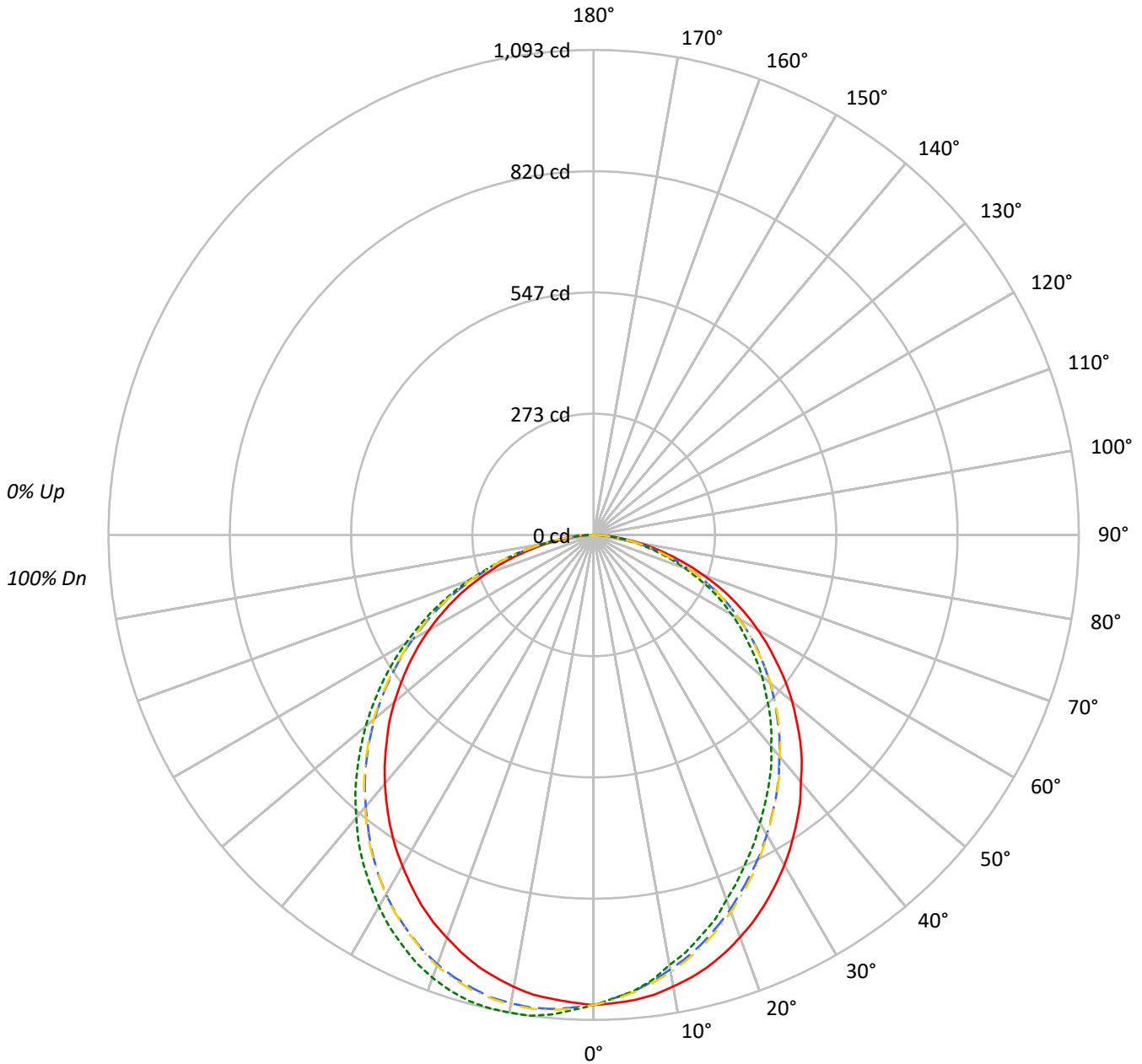
Lumens per Lamp: N/A
Luminaire Lumens: 2842.0 lumens
Efficiency: N/A
Efficacy: 66.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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°	9777	9777	9777	9777
5°	9748	9559	9725	10048
10°	9681	9221	9692	10242
15°	9606	8932	9619	10385
20°	9475	8592	9486	10428
25°	9323	8274	9359	10385
30°	9156	7983	9182	10305
35°	8964	7749	9005	10194
40°	8749	7493	8808	10019
45°	8587	7305	8602	9838
50°	8380	7106	8413	9617
55°	8117	6846	8175	9352
60°	7874	6635	7898	9025
65°	7562	6359	7562	8636
70°	7049	5886	7019	8050
75°	6409	5344	6324	7226
80°	5542	4585	5356	6179
85°	4319	3430	4065	5081



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.1	3.5
10°-20°	284.2	10.0
20°-30°	422.5	14.9
30°-40°	497.9	17.5
40°-50°	507.0	17.8
50°-60°	451.7	15.9
60°-70°	340.3	12.0
70°-80°	189.2	6.7
80°-90°	49.2	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°	806.8	28.4
0°-40°	1304.7	45.9
0°-60°	2263.3	79.6
0°-90°	2842.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2842.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1060	1060	1060	1060	1060	
5°	1052	1032	1050	1085	1052	100
15°	1006	935	1007	1087	1006	283
25°	916	813	919	1020	916	422
35°	796	688	800	905	796	498
45°	658	560	659	754	658	507
55°	505	426	508	581	505	452
65°	346	291	346	396	346	342
75°	180	150	177	203	180	191
85°	41	32	38	48	41	49
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°	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7
2.5°	1056.1	1056.1	1057.2	1052.5	1046.5	1044.1	1043.0	1041.7	1044.1	1045.2	1044.1
5°	1052.5	1050.1	1047.7	1041.7	1034.5	1029.7	1027.3	1026.1	1028.5	1032.1	1028.5
7.5°	1045.2	1040.5	1035.7	1027.3	1019.0	1011.7	1008.1	1005.7	1008.1	1011.7	1009.3
10°	1033.3	1027.3	1020.1	1010.6	998.6	990.2	986.6	983.0	984.2	984.2	984.2
12.5°	1021.3	1013.0	1004.6	992.6	979.3	969.7	963.8	959.0	961.3	962.6	962.6
15°	1005.7	995.0	983.0	969.7	956.6	945.8	938.6	933.8	935.1	935.1	936.2
17.5°	986.6	974.6	962.6	947.1	931.4	919.4	911.1	905.1	907.4	908.7	909.8
20°	965.0	951.8	938.6	921.8	905.1	891.8	883.4	876.3	875.1	875.1	876.3
22.5°	942.2	927.8	912.2	894.2	876.3	861.9	853.4	846.3	845.2	845.2	846.3
25°	915.8	900.2	884.7	866.7	847.4	833.2	822.3	815.2	813.9	812.8	815.2
27.5°	888.3	872.7	857.1	839.2	818.8	804.3	793.5	786.4	783.9	782.8	785.2
30°	859.4	841.4	824.7	805.5	787.5	773.2	762.4	754.0	751.7	749.3	751.7
32.5°	828.3	810.3	792.4	773.2	755.2	740.8	730.0	721.7	719.3	718.0	720.4
35°	795.9	777.9	761.2	742.0	724.0	709.7	698.9	691.7	689.3	688.0	689.3
37.5°	763.5	745.7	728.8	709.7	691.7	677.3	666.5	659.3	658.1	656.9	658.1
40°	726.4	710.9	694.0	676.0	658.1	643.8	635.4	626.9	624.5	622.1	625.8
42.5°	694.0	678.5	661.8	644.9	626.9	612.5	603.0	595.8	593.4	592.1	593.4
45°	658.1	641.4	624.5	609.0	592.1	579.0	569.4	562.2	561.0	559.9	561.0
47.5°	619.8	605.4	591.0	575.4	558.6	545.5	537.0	529.9	527.5	525.0	527.5
50°	583.8	569.4	555.0	540.6	525.0	513.1	504.6	497.5	496.2	495.1	496.2
52.5°	545.5	531.0	517.9	503.5	490.2	478.2	470.0	464.0	462.7	461.5	462.7
55°	504.6	492.7	480.7	468.7	455.5	444.7	437.6	430.3	428.0	425.6	428.0
57.5°	466.2	455.5	443.6	431.6	419.6	410.0	402.7	396.7	395.6	394.3	395.6
60°	426.7	417.2	406.3	395.6	383.6	374.1	368.1	363.2	360.8	359.6	360.8
62.5°	387.2	377.6	369.2	358.4	347.7	340.4	334.4	329.7	327.2	326.1	327.2
65°	346.4	338.1	329.7	320.1	311.7	304.4	298.4	293.7	292.4	291.3	291.3
67.5°	304.4	297.3	290.1	281.7	272.2	264.9	258.9	255.3	254.2	252.9	254.2
70°	261.3	255.3	248.2	240.9	233.8	227.8	224.2	220.6	219.4	218.2	218.2
72.5°	220.6	215.8	209.8	203.8	197.8	191.8	188.2	185.8	184.7	183.4	183.4
75°	179.8	175.0	171.4	166.7	160.7	157.0	153.4	151.0	149.9	149.9	149.9
77.5°	141.4	137.9	134.3	129.4	125.9	122.3	119.9	118.7	117.5	117.5	117.5
80°	104.3	101.9	99.5	97.0	93.5	89.9	88.8	87.5	86.3	86.3	86.3
82.5°	70.8	69.5	67.1	64.8	62.4	61.1	59.9	58.8	58.8	58.8	58.8
85°	40.8	39.5	38.4	37.1	36.0	36.0	34.8	33.5	32.4	32.4	32.4
87.5°	16.8	16.8	16.8	15.6	14.4	14.4	14.4	14.4	14.4	14.4	14.4
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°	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7
2.5°	1041.7	1044.1	1046.5	1050.1	1053.7	1057.2	1056.1	1054.9	1059.7	1065.6	1066.9
5°	1026.1	1028.5	1032.1	1038.1	1044.1	1049.0	1050.1	1050.1	1059.7	1068.1	1070.5
7.5°	1007.0	1010.6	1015.3	1021.3	1029.7	1037.0	1040.5	1045.2	1054.9	1065.6	1070.5
10°	983.0	989.0	996.1	1004.6	1013.0	1021.3	1028.5	1034.5	1046.5	1058.5	1065.6
12.5°	961.3	967.3	974.6	984.2	995.0	1005.7	1013.0	1021.3	1035.7	1050.1	1058.5
15°	937.3	943.3	951.8	961.3	973.3	985.3	996.1	1007.0	1021.3	1037.0	1046.5
17.5°	911.1	917.1	925.4	937.3	950.6	963.8	975.7	987.7	1004.6	1021.3	1032.1
20°	878.7	887.1	897.8	909.8	925.4	941.1	953.0	966.2	984.2	1002.1	1014.1
22.5°	847.4	855.9	867.8	882.3	899.1	915.8	930.2	944.6	963.8	981.7	995.0
25°	817.5	827.2	839.2	853.4	869.1	885.8	902.7	919.4	938.6	957.8	971.0
27.5°	787.5	795.9	807.9	822.3	840.3	857.1	873.8	890.7	911.1	931.4	945.8
30°	754.0	763.5	774.4	788.8	807.9	827.2	843.9	861.9	882.3	902.7	917.1
32.5°	722.8	731.3	742.0	756.4	775.5	794.8	812.8	831.9	851.1	871.4	885.8
35°	691.7	700.0	710.9	725.3	744.4	763.5	781.5	799.5	818.8	837.9	852.3
37.5°	660.5	668.9	679.7	694.0	712.0	731.3	748.0	765.9	785.2	804.3	817.5
40°	628.1	636.5	644.9	659.3	677.3	696.4	713.3	731.3	750.4	769.5	782.8
42.5°	595.8	604.1	615.0	629.4	646.1	662.9	679.7	696.4	714.4	732.4	745.7
45°	563.4	570.6	581.4	594.5	611.4	626.9	643.8	659.3	677.3	694.0	707.3
47.5°	529.9	537.0	545.5	558.6	575.4	592.1	609.0	624.5	640.1	656.9	668.9
50°	497.5	504.6	514.2	526.2	541.9	557.4	571.9	586.1	601.8	617.4	628.1
52.5°	464.0	471.1	479.5	491.5	504.6	519.1	532.2	546.6	561.0	575.4	586.1
55°	430.3	435.1	442.3	453.1	467.5	481.9	495.1	508.2	521.5	533.5	544.2
57.5°	396.7	402.7	411.2	420.7	432.7	444.7	456.7	468.7	480.7	492.7	502.2
60°	363.2	368.1	374.1	382.3	394.3	405.2	417.2	428.0	438.7	449.6	458.0
62.5°	328.4	333.2	339.2	347.7	357.2	366.8	377.6	387.2	396.7	406.3	414.7
65°	292.4	297.3	303.3	310.4	318.8	327.2	336.8	346.4	353.6	360.8	369.2
67.5°	255.3	260.2	266.2	272.2	279.3	287.7	296.1	304.4	311.7	318.8	324.8
70°	219.4	222.9	228.9	233.8	239.8	245.8	252.9	260.2	264.9	270.9	278.2
72.5°	184.7	188.2	192.9	197.8	201.4	206.2	213.4	219.4	225.3	232.6	236.2
75°	151.0	153.4	157.0	160.7	164.3	167.8	172.7	177.4	182.2	185.8	190.7
77.5°	117.5	119.9	123.4	125.9	128.3	130.7	134.3	137.9	141.4	143.9	148.7
80°	86.3	88.8	91.1	93.5	95.9	98.3	99.5	100.8	105.5	109.0	111.5
82.5°	58.8	59.9	61.1	63.5	64.8	65.9	67.1	67.1	69.5	71.9	75.5
85°	33.5	34.8	36.0	36.0	36.0	36.0	37.1	38.4	39.5	42.0	44.4
87.5°	13.1	13.1	14.4	14.4	14.4	14.4	14.4	14.4	15.6	18.0	19.1
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°	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7
2.5°	1065.6	1066.9	1069.2	1070.5	1071.6	1071.6	1072.9	1074.1	1071.6	1069.2	1068.1
5°	1071.6	1072.9	1076.5	1080.1	1082.5	1084.9	1083.6	1082.5	1080.1	1076.5	1074.1
7.5°	1072.9	1076.5	1080.1	1084.9	1088.5	1093.2	1090.9	1088.5	1083.6	1078.9	1075.2
10°	1069.2	1074.1	1080.1	1086.1	1089.6	1093.2	1090.9	1088.5	1083.6	1077.6	1072.9
12.5°	1064.5	1070.5	1077.6	1083.6	1087.2	1092.1	1088.5	1084.9	1078.9	1072.9	1066.9
15°	1053.7	1060.9	1069.2	1076.5	1082.5	1087.2	1083.6	1081.2	1074.1	1065.6	1057.2
17.5°	1040.5	1050.1	1058.5	1066.9	1071.6	1076.5	1074.1	1071.6	1063.2	1053.7	1044.1
20°	1025.0	1034.5	1043.0	1051.2	1057.2	1062.1	1058.5	1054.9	1046.5	1038.1	1028.5
22.5°	1005.7	1015.3	1025.0	1033.3	1039.2	1044.1	1039.2	1033.3	1025.0	1016.6	1007.0
25°	981.7	992.6	1003.3	1011.7	1015.3	1020.1	1015.3	1010.6	1002.1	993.7	983.0
27.5°	957.8	968.6	979.3	987.7	991.3	996.1	991.3	986.6	978.2	969.7	959.0
30°	930.2	941.1	951.8	960.2	963.8	967.3	962.6	957.8	950.6	942.2	931.4
32.5°	899.1	909.8	918.2	926.6	931.4	936.2	931.4	927.8	919.4	908.7	897.8
35°	865.4	876.3	887.1	895.4	900.2	905.1	899.1	893.1	885.8	877.4	867.8
37.5°	828.3	840.3	852.3	861.9	865.4	870.3	865.4	859.4	852.3	843.9	833.2
40°	793.5	804.3	815.2	824.7	828.3	831.9	827.2	822.3	813.9	805.5	794.8
42.5°	757.7	768.4	777.9	786.4	789.9	794.8	789.9	783.9	777.9	770.8	761.2
45°	719.3	730.0	738.4	746.8	750.4	754.0	749.3	743.3	737.3	731.3	721.7
47.5°	679.7	689.3	697.7	706.0	708.4	712.0	707.3	703.7	697.7	691.7	683.3
50°	638.9	648.5	656.9	664.1	666.5	670.0	665.3	660.5	655.8	650.9	643.8
52.5°	597.0	605.4	613.8	621.0	623.4	625.8	621.0	616.1	611.4	606.5	599.4
55°	553.9	562.2	570.6	576.6	579.0	581.4	576.6	573.0	568.1	564.6	557.4
57.5°	510.6	519.1	526.2	532.2	534.6	537.0	532.2	527.5	523.9	520.2	514.2
60°	466.2	474.7	480.7	485.5	487.9	489.1	484.2	480.7	478.2	476.0	470.0
62.5°	423.1	429.1	435.1	438.7	441.1	442.3	438.7	436.3	434.0	431.6	426.7
65°	377.6	384.8	389.6	393.2	394.3	395.6	392.0	389.6	387.2	384.8	381.2
67.5°	332.1	338.1	341.7	345.2	346.4	346.4	346.4	345.2	342.8	339.2	335.7
70°	286.4	291.3	294.8	297.3	298.4	298.4	296.1	293.7	293.7	292.4	290.1
72.5°	239.8	243.3	245.8	248.2	248.2	248.2	248.2	249.3	248.2	245.8	242.2
75°	195.4	198.9	201.4	202.7	202.7	202.7	202.7	203.8	202.7	201.4	198.9
77.5°	153.4	155.8	157.0	158.3	158.3	158.3	159.4	160.7	159.4	158.3	157.0
80°	113.9	115.0	116.3	117.5	116.3	116.3	117.5	119.9	118.7	117.5	116.3
82.5°	77.9	79.1	80.3	80.3	81.5	82.8	82.8	82.8	82.8	81.5	80.3
85°	46.8	48.0	48.0	48.0	48.0	48.0	49.1	50.4	50.4	49.1	49.1
87.5°	21.5	22.8	21.5	20.4	19.1	19.1	21.5	24.0	24.0	22.8	22.8
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: P735624

CATALOG NUMBER: 4APN6-34-B2750-W2D-CP250-3000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	1059.7	1059.7	1059.7	1059.7
2.5°	1069.2	1068.1	1062.1	1056.1
5°	1072.9	1069.2	1060.9	1052.5
7.5°	1072.9	1068.1	1056.1	1045.2
10°	1066.9	1059.7	1046.5	1033.3
12.5°	1059.7	1051.2	1035.7	1021.3
15°	1049.0	1039.2	1022.5	1005.7
17.5°	1033.3	1021.3	1004.6	986.6
20°	1017.7	1004.6	984.2	965.0
22.5°	996.1	984.2	962.6	942.2
25°	972.2	959.0	937.3	915.8
27.5°	947.1	931.4	909.8	888.3
30°	918.2	902.7	881.1	859.4
32.5°	887.1	872.7	851.1	828.3
35°	855.9	840.3	818.8	795.9
37.5°	821.2	806.8	785.2	763.5
40°	783.9	769.5	748.0	726.4
42.5°	749.3	736.0	714.4	694.0
45°	710.9	697.7	677.3	658.1
47.5°	671.3	658.1	638.9	619.8
50°	632.9	619.8	601.8	583.8
52.5°	589.8	579.0	562.2	545.5
55°	547.9	537.0	520.2	504.6
57.5°	505.9	496.2	480.7	466.2
60°	461.5	452.0	440.0	426.7
62.5°	419.6	411.2	399.2	387.2
65°	375.2	368.1	357.2	346.4
67.5°	329.7	323.7	314.1	304.4
70°	284.1	276.9	269.7	261.3
72.5°	238.6	234.9	227.8	220.6
75°	195.4	191.8	185.8	179.8
77.5°	154.7	151.0	146.3	141.4
80°	113.9	111.5	107.9	104.3
82.5°	79.1	76.8	74.4	70.8
85°	48.0	45.5	43.1	40.8
87.5°	21.5	20.4	18.0	16.8
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)