

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: P735622

Luminaire Tested: **4APN6-34-B2750-W2D-CP125-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735622
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-CP125-5000K
Description: 4FT 3400 AMBIENT LUMEN OUTPUT APN WITH BIO UP LEDS AT 5000K CCT, AND CP125 LENS

Light Source: -
Ballast/Driver: -

Summary

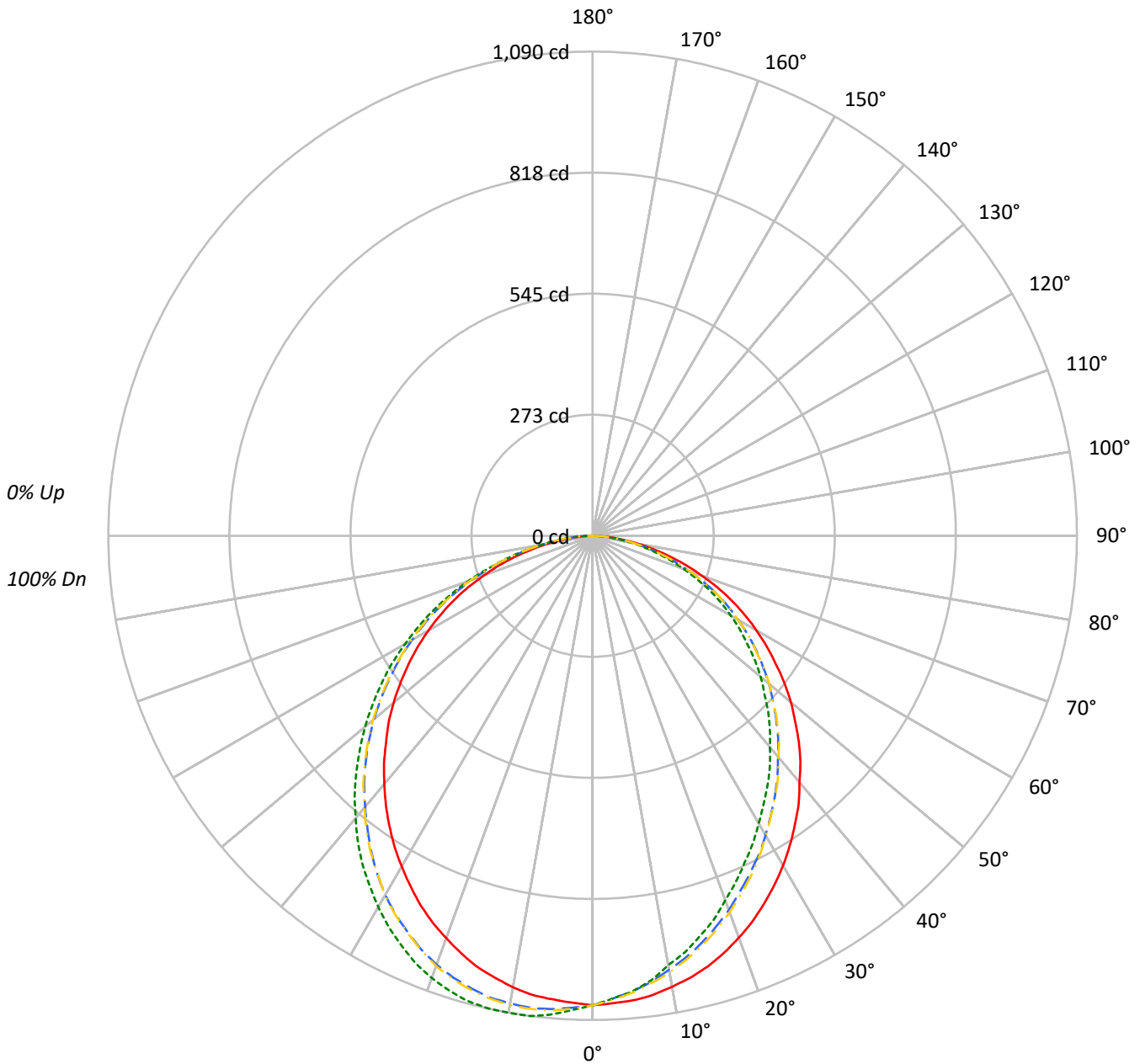
Lumens per Lamp: N/A
Luminaire Lumens: 2835.0 lumens
Efficiency: N/A
Efficacy: 66.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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°	9752	9752	9752	9752
5°	9724	9536	9701	10023
10°	9656	9197	9668	10216
15°	9582	8910	9595	10359
20°	9452	8571	9463	10403
25°	9299	8254	9336	10359
30°	9133	7962	9159	10280
35°	8943	7730	8982	10169
40°	8727	7474	8786	9994
45°	8565	7287	8582	9813
50°	8359	7089	8392	9594
55°	8097	6828	8155	9330
60°	7855	6621	7877	9003
65°	7543	6344	7543	8615
70°	7033	5873	7000	8031
75°	6395	5329	6310	7208
80°	5531	4575	5340	6163
85°	4308	3419	4054	5060



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	3.5
10°-20°	283.5	10.0
20°-30°	421.4	14.9
30°-40°	496.7	17.5
40°-50°	505.7	17.8
50°-60°	450.5	15.9
60°-70°	339.4	12.0
70°-80°	188.8	6.7
80°-90°	49.1	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°	804.8	28.4
0°-40°	1301.5	45.9
0°-60°	2257.7	79.6
0°-90°	2835.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2835.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1057	1057	1057	1057	1057	
5°	1050	1030	1048	1082	1050	100
15°	1003	933	1004	1084	1003	283
25°	914	811	917	1018	914	421
35°	794	686	798	903	794	497
45°	656	558	658	752	656	506
55°	503	424	507	580	503	451
65°	346	291	346	395	346	341
75°	179	150	177	202	179	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°	1057.0	1057.0	1057.0	1057.0	1057.0	1057.0	1057.0	1057.0	1057.0	1057.0	1057.0
2.5°	1053.5	1053.5	1054.6	1049.9	1043.9	1041.5	1040.4	1039.1	1041.5	1042.7	1041.5
5°	1049.9	1047.5	1045.1	1039.1	1032.0	1027.1	1024.7	1023.6	1026.0	1029.6	1026.0
7.5°	1042.7	1038.0	1033.1	1024.7	1016.5	1009.2	1005.7	1003.2	1005.7	1009.2	1006.8
10°	1030.7	1024.7	1017.6	1008.1	996.1	987.7	984.2	980.6	981.7	981.7	981.7
12.5°	1018.7	1010.5	1002.1	990.1	976.9	967.4	961.4	956.7	959.0	960.2	960.2
15°	1003.2	992.6	980.6	967.4	954.3	943.4	936.3	931.5	932.8	932.8	933.9
17.5°	984.2	972.2	960.2	944.7	929.1	917.1	908.8	902.9	905.1	906.4	907.6
20°	962.7	949.4	936.3	919.5	902.9	889.6	881.2	874.1	873.0	873.0	874.1
22.5°	939.9	925.5	910.0	892.0	874.1	859.7	851.3	844.2	843.1	843.1	844.2
25°	913.5	898.0	882.5	864.6	845.4	831.1	820.3	813.2	811.9	810.8	813.2
27.5°	886.1	870.5	855.0	837.1	816.7	802.4	791.5	784.4	782.0	780.9	783.3
30°	857.3	839.4	822.7	803.5	785.6	771.3	760.5	752.1	749.8	747.4	749.8
32.5°	826.3	808.3	790.4	771.3	753.4	739.0	728.2	719.9	717.5	716.2	718.6
35°	794.0	776.0	759.4	740.1	722.2	708.0	697.2	690.0	687.6	686.3	687.6
37.5°	761.6	743.8	727.0	708.0	690.0	675.7	664.8	657.7	656.4	655.3	656.4
40°	724.6	709.1	692.3	674.4	656.4	642.2	633.8	625.4	623.0	620.6	624.3
42.5°	692.3	676.8	660.1	643.3	625.4	611.0	601.5	594.4	591.9	590.7	591.9
45°	656.4	639.8	623.0	607.5	590.7	577.6	568.0	560.8	559.6	558.5	559.6
47.5°	618.3	603.9	589.5	574.0	557.2	544.1	535.7	528.6	526.2	523.8	526.2
50°	582.4	568.0	553.6	539.3	523.8	511.8	503.4	496.3	495.0	493.9	495.0
52.5°	544.1	529.7	516.6	502.3	489.0	477.1	468.8	462.8	461.5	460.4	461.5
55°	503.4	491.4	479.5	467.5	454.4	443.6	436.5	429.2	426.9	424.5	426.9
57.5°	465.1	454.4	442.5	430.5	418.5	409.0	401.7	395.8	394.6	393.3	394.6
60°	425.7	416.1	405.3	394.6	382.7	373.1	367.2	362.3	359.9	358.8	359.9
62.5°	386.2	376.7	368.3	357.5	346.8	339.5	333.6	328.9	326.4	325.3	326.4
65°	345.5	337.3	328.9	319.3	310.9	303.7	297.7	293.0	291.7	290.6	290.6
67.5°	303.7	296.5	289.4	281.0	271.5	264.2	258.2	254.7	253.5	252.3	253.5
70°	260.7	254.7	247.6	240.3	233.2	227.2	223.7	220.1	218.8	217.7	217.7
72.5°	220.1	215.3	209.3	203.3	197.3	191.3	187.8	185.4	184.2	182.9	182.9
75°	179.4	174.5	171.0	166.3	160.3	156.6	153.0	150.6	149.5	149.5	149.5
77.5°	141.1	137.5	134.0	129.1	125.6	122.0	119.6	118.4	117.2	117.2	117.2
80°	104.1	101.6	99.2	96.8	93.2	89.7	88.5	87.3	86.1	86.1	86.1
82.5°	70.6	69.3	66.9	64.6	62.2	60.9	59.8	58.7	58.7	58.7	58.7
85°	40.7	39.4	38.3	37.0	35.9	35.9	34.7	33.5	32.3	32.3	32.3
87.5°	16.8	16.8	16.8	15.5	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°	1057.0	1057.0	1057.0	1057.0	1057.0	1057.0	1057.0	1057.0	1057.0	1057.0	1057.0
2.5°	1039.1	1041.5	1043.9	1047.5	1051.1	1054.6	1053.5	1052.3	1057.0	1063.0	1064.3
5°	1023.6	1026.0	1029.6	1035.5	1041.5	1046.4	1047.5	1047.5	1057.0	1065.4	1067.9
7.5°	1004.5	1008.1	1012.8	1018.7	1027.1	1034.4	1038.0	1042.7	1052.3	1063.0	1067.9
10°	980.6	986.6	993.7	1002.1	1010.5	1018.7	1026.0	1032.0	1043.9	1055.9	1063.0
12.5°	959.0	964.9	972.2	981.7	992.6	1003.2	1010.5	1018.7	1033.1	1047.5	1055.9
15°	935.0	941.0	949.4	959.0	970.9	982.9	993.7	1004.5	1018.7	1034.4	1043.9
17.5°	908.8	914.8	923.1	935.0	948.3	961.4	973.3	985.3	1002.1	1018.7	1029.6
20°	876.5	884.9	895.6	907.6	923.1	938.7	950.7	963.8	981.7	999.7	1011.6
22.5°	845.4	853.8	865.7	880.1	896.9	913.5	927.9	942.3	961.4	979.3	992.6
25°	815.5	825.1	837.1	851.3	867.0	883.6	900.4	917.1	936.3	955.4	968.6
27.5°	785.6	794.0	805.9	820.3	838.2	855.0	871.7	888.5	908.8	929.1	943.4
30°	752.1	761.6	772.5	786.8	805.9	825.1	841.8	859.7	880.1	900.4	914.8
32.5°	721.1	729.5	740.1	754.5	773.6	792.8	810.8	829.8	849.1	869.3	883.6
35°	690.0	698.3	709.1	723.5	742.6	761.6	779.6	797.5	816.7	835.8	850.2
37.5°	658.9	667.3	678.1	692.3	710.2	729.5	746.1	764.1	783.3	802.4	815.5
40°	626.5	634.9	643.3	657.7	675.7	694.7	711.5	729.5	748.5	767.6	780.9
42.5°	594.4	602.6	613.4	627.8	644.5	661.3	678.1	694.7	712.7	730.6	743.8
45°	562.0	569.2	580.0	593.1	609.9	625.4	642.2	657.7	675.7	692.3	705.6
47.5°	528.6	535.7	544.1	557.2	574.0	590.7	607.5	623.0	638.5	655.3	667.3
50°	496.3	503.4	512.9	524.9	540.6	556.1	570.4	584.7	600.3	615.9	626.5
52.5°	462.8	469.9	478.3	490.3	503.4	517.8	530.9	545.2	559.6	574.0	584.7
55°	429.2	434.1	441.2	452.0	466.4	480.8	493.9	507.0	520.2	532.2	542.8
57.5°	395.8	401.7	410.1	419.7	431.6	443.6	455.6	467.5	479.5	491.4	501.0
60°	362.3	367.2	373.1	381.4	393.3	404.2	416.1	426.9	437.6	448.4	456.8
62.5°	327.6	332.4	338.4	346.8	356.3	365.9	376.7	386.2	395.8	405.3	413.7
65°	291.7	296.5	302.5	309.6	318.0	326.4	336.0	345.5	352.8	359.9	368.3
67.5°	254.7	259.5	265.5	271.5	278.6	287.0	295.4	303.7	310.9	318.0	324.0
70°	218.8	222.4	228.4	233.2	239.2	245.1	252.3	259.5	264.2	270.2	277.5
72.5°	184.2	187.8	192.5	197.3	200.9	205.7	212.8	218.8	224.8	232.1	235.6
75°	150.6	153.0	156.6	160.3	163.9	167.4	172.3	177.0	181.8	185.4	190.2
77.5°	117.2	119.6	123.1	125.6	128.0	130.4	134.0	137.5	141.1	143.5	148.3
80°	86.1	88.5	90.8	93.2	95.7	98.1	99.2	100.5	105.2	108.8	111.2
82.5°	58.7	59.8	60.9	63.4	64.6	65.8	66.9	66.9	69.3	71.8	75.3
85°	33.5	34.7	35.9	35.9	35.9	35.9	37.0	38.3	39.4	41.9	44.3
87.5°	13.1	13.1	14.4	14.4	14.4	14.4	14.4	14.4	15.5	17.9	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°	1057.0	1057.0	1057.0	1057.0	1057.0	1057.0	1057.0	1057.0	1057.0	1057.0	1057.0
2.5°	1063.0	1064.3	1066.6	1067.9	1069.0	1069.0	1070.3	1071.4	1069.0	1066.6	1065.4
5°	1069.0	1070.3	1073.8	1077.4	1079.8	1082.2	1081.0	1079.8	1077.4	1073.8	1071.4
7.5°	1070.3	1073.8	1077.4	1082.2	1085.8	1090.5	1088.2	1085.8	1081.0	1076.3	1072.6
10°	1066.6	1071.4	1077.4	1083.4	1086.9	1090.5	1088.2	1085.8	1081.0	1075.0	1070.3
12.5°	1061.9	1067.9	1075.0	1081.0	1084.5	1089.4	1085.8	1082.2	1076.3	1070.3	1064.3
15°	1051.1	1058.3	1066.6	1073.8	1079.8	1084.5	1081.0	1078.5	1071.4	1063.0	1054.6
17.5°	1038.0	1047.5	1055.9	1064.3	1069.0	1073.8	1071.4	1069.0	1060.6	1051.1	1041.5
20°	1022.5	1032.0	1040.4	1048.6	1054.6	1059.5	1055.9	1052.3	1043.9	1035.5	1026.0
22.5°	1003.2	1012.8	1022.5	1030.7	1036.7	1041.5	1036.7	1030.7	1022.5	1014.1	1004.5
25°	979.3	990.1	1000.8	1009.2	1012.8	1017.6	1012.8	1008.1	999.7	991.3	980.6
27.5°	955.4	966.2	976.9	985.3	988.9	993.7	988.9	984.2	975.8	967.4	956.7
30°	927.9	938.7	949.4	957.8	961.4	964.9	960.2	955.4	948.3	939.9	929.1
32.5°	896.9	907.6	916.0	924.4	929.1	933.9	929.1	925.5	917.1	906.4	895.6
35°	863.3	874.1	884.9	893.2	898.0	902.9	896.9	890.9	883.6	875.2	865.7
37.5°	826.3	838.2	850.2	859.7	863.3	868.1	863.3	857.3	850.2	841.8	831.1
40°	791.5	802.4	813.2	822.7	826.3	829.8	825.1	820.3	811.9	803.5	792.8
42.5°	755.8	766.5	776.0	784.4	788.0	792.8	788.0	782.0	776.0	768.9	759.4
45°	717.5	728.2	736.6	745.0	748.5	752.1	747.4	741.4	735.4	729.5	719.9
47.5°	678.1	687.6	696.0	704.3	706.7	710.2	705.6	702.0	696.0	690.0	681.6
50°	637.4	646.9	655.3	662.4	664.8	668.4	663.7	658.9	654.2	649.3	642.2
52.5°	595.5	603.9	612.3	619.4	621.8	624.3	619.4	614.6	609.9	605.0	597.9
55°	552.5	560.8	569.2	575.1	577.6	580.0	575.1	571.6	566.7	563.2	556.1
57.5°	509.4	517.8	524.9	530.9	533.3	535.7	530.9	526.2	522.6	518.9	512.9
60°	465.1	473.5	479.5	484.3	486.7	487.9	483.0	479.5	477.1	474.8	468.8
62.5°	422.1	428.1	434.1	437.6	440.0	441.2	437.6	435.2	432.9	430.5	425.7
65°	376.7	383.8	388.7	392.2	393.3	394.6	391.1	388.7	386.2	383.8	380.3
67.5°	331.3	337.3	340.8	344.4	345.5	345.5	345.5	344.4	342.0	338.4	334.8
70°	285.7	290.6	294.1	296.5	297.7	297.7	295.4	293.0	293.0	291.7	289.4
72.5°	239.2	242.7	245.1	247.6	247.6	247.6	247.6	248.7	247.6	245.1	241.6
75°	194.9	198.5	200.9	202.2	202.2	202.2	202.2	203.3	202.2	200.9	198.5
77.5°	153.0	155.5	156.6	157.9	157.9	157.9	159.0	160.3	159.0	157.9	156.6
80°	113.6	114.7	116.0	117.2	116.0	116.0	117.2	119.6	118.4	117.2	116.0
82.5°	77.7	78.9	80.2	80.2	81.3	82.6	82.6	82.6	82.6	81.3	80.2
85°	46.7	47.8	47.8	47.8	47.8	47.8	49.0	50.3	50.3	49.0	49.0
87.5°	21.5	22.8	21.5	20.4	19.1	19.1	21.5	23.9	23.9	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: P735622

CATALOG NUMBER: 4APN6-34-B2750-W2D-CP125-5000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	1057.0	1057.0	1057.0	1057.0
2.5°	1066.6	1065.4	1059.5	1053.5
5°	1070.3	1066.6	1058.3	1049.9
7.5°	1070.3	1065.4	1053.5	1042.7
10°	1064.3	1057.0	1043.9	1030.7
12.5°	1057.0	1048.6	1033.1	1018.7
15°	1046.4	1036.7	1020.0	1003.2
17.5°	1030.7	1018.7	1002.1	984.2
20°	1015.2	1002.1	981.7	962.7
22.5°	993.7	981.7	960.2	939.9
25°	969.8	956.7	935.0	913.5
27.5°	944.7	929.1	907.6	886.1
30°	916.0	900.4	878.9	857.3
32.5°	884.9	870.5	849.1	826.3
35°	853.8	838.2	816.7	794.0
37.5°	819.2	804.8	783.3	761.6
40°	782.0	767.6	746.1	724.6
42.5°	747.4	734.2	712.7	692.3
45°	709.1	696.0	675.7	656.4
47.5°	669.7	656.4	637.4	618.3
50°	631.4	618.3	600.3	582.4
52.5°	588.4	577.6	560.8	544.1
55°	546.5	535.7	518.9	503.4
57.5°	504.7	495.0	479.5	465.1
60°	460.4	450.9	438.9	425.7
62.5°	418.5	410.1	398.2	386.2
65°	374.3	367.2	356.3	345.5
67.5°	328.9	322.9	313.3	303.7
70°	283.4	276.2	269.1	260.7
72.5°	238.0	234.3	227.2	220.1
75°	194.9	191.3	185.4	179.4
77.5°	154.3	150.6	145.9	141.1
80°	113.6	111.2	107.6	104.1
82.5°	78.9	76.6	74.2	70.6
85°	47.8	45.4	43.0	40.7
87.5°	21.5	20.4	17.9	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)