

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: P735627

Luminaire Tested: **4APN6-34-B2750-W2D-CP250-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735627
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-CP250-5000K
Description: 4FT 3400 AMBIENT LUMEN OUTPUT APN WITH BIO UP LEDS AT 5000K CCT, AND CP250 LENS

Light Source: -
Ballast/Driver: -

Summary

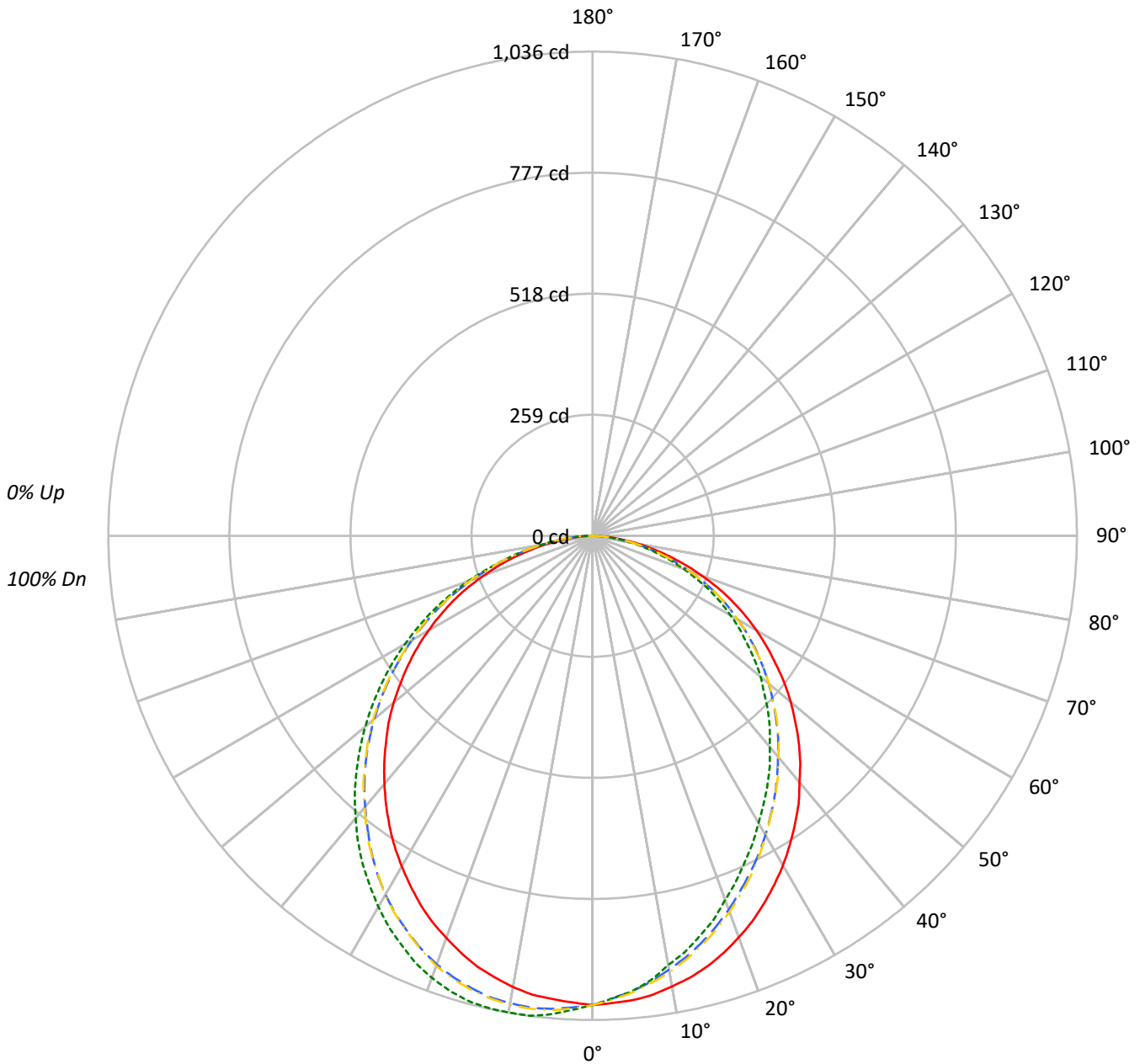
Lumens per Lamp: N/A
Luminaire Lumens: 2693.0 lumens
Efficiency: N/A
Efficacy: 63.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 42.7
Input Voltage (V): NR
Input Current (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									
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°	9264	9264	9264	9264
5°	9236	9058	9215	9521
10°	9173	8737	9184	9705
15°	9103	8463	9114	9840
20°	8978	8141	8989	9881
25°	8834	7840	8869	9840
30°	8676	7564	8701	9765
35°	8495	7344	8533	9659
40°	8290	7100	8345	9494
45°	8137	6922	8152	9321
50°	7940	6733	7972	9113
55°	7692	6487	7747	8861
60°	7460	6289	7484	8551
65°	7165	6025	7165	8184
70°	6679	5579	6649	7629
75°	6074	5062	5992	6844
80°	5255	4346	5074	5855
85°	4097	3250	3853	4806



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.9	3.5
10°-20°	269.3	10.0
20°-30°	400.3	14.9
30°-40°	471.8	17.5
40°-50°	480.4	17.8
50°-60°	428.0	15.9
60°-70°	322.4	12.0
70°-80°	179.3	6.7
80°-90°	46.6	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°	764.5	28.4
0°-40°	1236.3	45.9
0°-60°	2144.7	79.6
0°-90°	2693.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2693.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1004	1004	1004	1004	1004	
5°	997	978	995	1028	997	95
15°	953	886	954	1030	953	269
25°	868	770	871	967	868	400
35°	754	652	758	858	754	472
45°	624	530	625	714	624	480
55°	478	403	482	551	478	428
65°	328	276	328	375	328	324
75°	170	142	168	192	170	181
85°	39	31	36	45	39	47
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°	1004.1	1004.1	1004.1	1004.1	1004.1	1004.1	1004.1	1004.1	1004.1	1004.1	1004.1
2.5°	1000.7	1000.7	1001.8	997.3	991.7	989.4	988.3	987.1	989.4	990.4	989.4
5°	997.3	995.0	992.7	987.1	980.3	975.7	973.4	972.3	974.6	978.0	974.6
7.5°	990.4	986.0	981.4	973.4	965.6	958.7	955.3	953.0	955.3	958.7	956.4
10°	979.1	973.4	966.6	957.6	946.2	938.2	934.9	931.5	932.6	932.6	932.6
12.5°	967.7	959.9	951.9	940.5	928.0	918.9	913.2	908.8	910.9	912.1	912.1
15°	953.0	942.8	931.5	918.9	906.5	896.2	889.4	884.8	886.0	886.0	887.1
17.5°	934.9	923.5	912.1	897.4	882.5	871.2	863.3	857.6	859.8	861.0	862.1
20°	914.4	901.9	889.4	873.5	857.6	845.1	837.1	830.3	829.2	829.2	830.3
22.5°	892.8	879.1	864.4	847.4	830.3	816.7	808.7	801.9	800.8	800.8	801.9
25°	867.8	853.0	838.3	821.3	803.0	789.5	779.2	772.4	771.2	770.1	772.4
27.5°	841.7	826.9	812.2	795.2	775.8	762.2	751.9	745.1	742.8	741.7	744.0
30°	814.4	797.3	781.5	763.3	746.2	732.7	722.4	714.4	712.3	710.0	712.3
32.5°	784.9	767.8	750.8	732.7	715.6	702.0	691.7	683.9	681.6	680.4	682.7
35°	754.2	737.2	721.3	703.1	686.0	672.5	662.2	655.5	653.2	652.0	653.2
37.5°	723.5	706.6	690.6	672.5	655.5	641.8	631.5	624.8	623.6	622.5	623.6
40°	688.3	673.6	657.6	640.6	623.6	610.0	602.1	594.1	591.8	589.5	593.0
42.5°	657.6	642.9	627.1	611.1	594.1	580.4	571.4	564.6	562.3	561.1	562.3
45°	623.6	607.7	591.8	577.0	561.1	548.6	539.6	532.7	531.6	530.5	531.6
47.5°	587.3	573.7	560.0	545.3	529.3	516.9	508.9	502.1	499.8	497.5	499.8
50°	553.2	539.6	525.9	512.3	497.5	486.2	478.2	471.4	470.2	469.1	470.2
52.5°	516.9	503.2	490.8	477.1	464.5	453.2	445.3	439.6	438.4	437.3	438.4
55°	478.2	466.8	455.5	444.1	431.7	421.4	414.6	407.7	405.6	403.3	405.6
57.5°	441.8	431.7	420.3	408.9	397.6	388.5	381.6	375.9	374.9	373.6	374.9
60°	404.3	395.3	385.0	374.9	363.5	354.4	348.8	344.2	341.9	340.8	341.9
62.5°	366.9	357.8	349.8	339.6	329.4	322.5	316.8	312.4	310.1	309.0	310.1
65°	328.2	320.4	312.4	303.3	295.3	288.5	282.8	278.3	277.1	276.0	276.0
67.5°	288.5	281.7	274.9	266.9	257.9	251.0	245.3	241.9	240.8	239.6	240.8
70°	247.6	241.9	235.2	228.3	221.5	215.8	212.4	209.1	207.9	206.8	206.8
72.5°	209.1	204.5	198.8	193.1	187.4	181.8	178.4	176.1	175.0	173.8	173.8
75°	170.4	165.8	162.4	158.0	152.3	148.8	145.4	143.1	142.0	142.0	142.0
77.5°	134.0	130.6	127.3	122.7	119.3	115.9	113.6	112.5	111.3	111.3	111.3
80°	98.9	96.6	94.3	92.0	88.6	85.2	84.1	82.9	81.8	81.8	81.8
82.5°	67.1	65.9	63.6	61.4	59.1	57.9	56.8	55.7	55.7	55.7	55.7
85°	38.7	37.5	36.4	35.2	34.1	34.1	33.0	31.8	30.7	30.7	30.7
87.5°	16.0	16.0	16.0	14.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
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°	1004.1	1004.1	1004.1	1004.1	1004.1	1004.1	1004.1	1004.1	1004.1	1004.1	1004.1
2.5°	987.1	989.4	991.7	995.0	998.4	1001.8	1000.7	999.6	1004.1	1009.8	1011.0
5°	972.3	974.6	978.0	983.7	989.4	994.0	995.0	995.0	1004.1	1012.1	1014.4
7.5°	954.2	957.6	962.0	967.7	975.7	982.6	986.0	990.4	999.6	1009.8	1014.4
10°	931.5	937.2	943.9	951.9	959.9	967.7	974.6	980.3	991.7	1003.0	1009.8
12.5°	910.9	916.6	923.5	932.6	942.8	953.0	959.9	967.7	981.4	995.0	1003.0
15°	888.2	893.9	901.9	910.9	922.3	933.6	943.9	954.2	967.7	982.6	991.7
17.5°	863.3	869.0	876.8	888.2	900.8	913.2	924.6	935.9	951.9	967.7	978.0
20°	832.6	840.6	850.7	862.1	876.8	891.7	903.1	915.5	932.6	949.6	961.0
22.5°	803.0	811.0	822.3	836.0	852.0	867.8	881.4	895.1	913.2	930.3	942.8
25°	774.6	783.8	795.2	808.7	823.6	839.4	855.3	871.2	889.4	907.5	920.1
27.5°	746.2	754.2	765.5	779.2	796.2	812.2	828.0	844.0	863.3	882.5	896.2
30°	714.4	723.5	733.8	747.4	765.5	783.8	799.6	816.7	836.0	855.3	869.0
32.5°	685.0	692.9	703.1	716.7	734.9	753.1	770.1	788.3	806.5	825.7	839.4
35°	655.5	663.3	673.6	687.2	705.4	723.5	740.5	757.6	775.8	793.9	807.6
37.5°	625.9	633.8	644.1	657.6	674.7	692.9	708.8	725.8	744.0	762.2	774.6
40°	595.2	603.1	611.1	624.8	641.8	659.9	675.9	692.9	711.1	729.2	741.7
42.5°	564.6	572.4	582.7	596.4	612.2	628.2	644.1	659.9	677.0	694.0	706.6
45°	533.9	540.7	550.9	563.4	579.3	594.1	610.0	624.8	641.8	657.6	670.2
47.5°	502.1	508.9	516.9	529.3	545.3	561.1	577.0	591.8	606.5	622.5	633.8
50°	471.4	478.2	487.2	498.6	513.5	528.2	541.9	555.4	570.3	585.0	595.2
52.5°	439.6	446.4	454.4	465.7	478.2	491.8	504.3	517.9	531.6	545.3	555.4
55°	407.7	412.3	419.1	429.4	443.0	456.7	469.1	481.6	494.1	505.5	515.6
57.5°	375.9	381.6	389.6	398.7	410.0	421.4	432.7	444.1	455.5	466.8	475.9
60°	344.2	348.8	354.4	362.3	373.6	383.9	395.3	405.6	415.7	426.0	434.0
62.5°	311.2	315.8	321.4	329.4	338.5	347.5	357.8	366.9	375.9	385.0	393.0
65°	277.1	281.7	287.4	294.1	302.1	310.1	319.1	328.2	335.1	341.9	349.8
67.5°	241.9	246.5	252.2	257.9	264.6	272.6	280.6	288.5	295.3	302.1	307.8
70°	207.9	211.2	216.9	221.5	227.2	232.9	239.6	246.5	251.0	256.7	263.6
72.5°	175.0	178.4	182.8	187.4	190.8	195.4	202.2	207.9	213.5	220.4	223.8
75°	143.1	145.4	148.8	152.3	155.7	159.0	163.6	168.1	172.7	176.1	180.7
77.5°	111.3	113.6	117.0	119.3	121.6	123.9	127.3	130.6	134.0	136.3	140.9
80°	81.8	84.1	86.3	88.6	90.9	93.2	94.3	95.5	99.9	103.3	105.6
82.5°	55.7	56.8	57.9	60.2	61.4	62.5	63.6	63.6	65.9	68.2	71.5
85°	31.8	33.0	34.1	34.1	34.1	34.1	35.2	36.4	37.5	39.8	42.1
87.5°	12.4	12.4	13.7	13.7	13.7	13.7	13.7	13.7	14.7	17.0	18.1
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°	1004.1	1004.1	1004.1	1004.1	1004.1	1004.1	1004.1	1004.1	1004.1	1004.1	1004.1
2.5°	1009.8	1011.0	1013.2	1014.4	1015.5	1015.5	1016.7	1017.8	1015.5	1013.2	1012.1
5°	1015.5	1016.7	1020.1	1023.4	1025.7	1028.0	1026.8	1025.7	1023.4	1020.1	1017.8
7.5°	1016.7	1020.1	1023.4	1028.0	1031.4	1035.9	1033.7	1031.4	1026.8	1022.4	1018.8
10°	1013.2	1017.8	1023.4	1029.1	1032.5	1035.9	1033.7	1031.4	1026.8	1021.1	1016.7
12.5°	1008.7	1014.4	1021.1	1026.8	1030.2	1034.8	1031.4	1028.0	1022.4	1016.7	1011.0
15°	998.4	1005.3	1013.2	1020.1	1025.7	1030.2	1026.8	1024.5	1017.8	1009.8	1001.8
17.5°	986.0	995.0	1003.0	1011.0	1015.5	1020.1	1017.8	1015.5	1007.5	998.4	989.4
20°	971.2	980.3	988.3	996.1	1001.8	1006.4	1003.0	999.6	991.7	983.7	974.6
22.5°	953.0	962.0	971.2	979.1	984.8	989.4	984.8	979.1	971.2	963.3	954.2
25°	930.3	940.5	950.7	958.7	962.0	966.6	962.0	957.6	949.6	941.6	931.5
27.5°	907.5	917.8	928.0	935.9	939.3	943.9	939.3	934.9	926.9	918.9	908.8
30°	881.4	891.7	901.9	909.8	913.2	916.6	912.1	907.5	900.8	892.8	882.5
32.5°	852.0	862.1	870.1	878.1	882.5	887.1	882.5	879.1	871.2	861.0	850.7
35°	820.0	830.3	840.6	848.4	853.0	857.6	852.0	846.3	839.4	831.4	822.3
37.5°	784.9	796.2	807.6	816.7	820.0	824.6	820.0	814.4	807.6	799.6	789.5
40°	751.9	762.2	772.4	781.5	784.9	788.3	783.8	779.2	771.2	763.3	753.1
42.5°	717.9	728.1	737.2	745.1	748.5	753.1	748.5	742.8	737.2	730.4	721.3
45°	681.6	691.7	699.7	707.7	711.1	714.4	710.0	704.3	698.6	692.9	683.9
47.5°	644.1	653.2	661.2	669.0	671.3	674.7	670.2	666.8	661.2	655.5	647.5
50°	605.4	614.5	622.5	629.2	631.5	634.9	630.5	625.9	621.4	616.8	610.0
52.5°	565.7	573.7	581.6	588.4	590.7	593.0	588.4	583.8	579.3	574.7	568.0
55°	524.8	532.7	540.7	546.3	548.6	550.9	546.3	543.0	538.4	535.0	528.2
57.5°	483.9	491.8	498.6	504.3	506.6	508.9	504.3	499.8	496.4	492.9	487.2
60°	441.8	449.8	455.5	460.1	462.4	463.4	458.8	455.5	453.2	451.0	445.3
62.5°	401.0	406.6	412.3	415.7	418.0	419.1	415.7	413.4	411.2	408.9	404.3
65°	357.8	364.6	369.2	372.6	373.6	374.9	371.5	369.2	366.9	364.6	361.2
67.5°	314.7	320.4	323.7	327.1	328.2	328.2	328.2	327.1	324.8	321.4	318.1
70°	271.4	276.0	279.4	281.7	282.8	282.8	280.6	278.3	278.3	277.1	274.9
72.5°	227.2	230.6	232.9	235.2	235.2	235.2	235.2	236.3	235.2	232.9	229.5
75°	185.1	188.5	190.8	192.0	192.0	192.0	192.0	193.1	192.0	190.8	188.5
77.5°	145.4	147.7	148.8	150.0	150.0	150.0	151.1	152.3	151.1	150.0	148.8
80°	107.9	109.0	110.2	111.3	110.2	110.2	111.3	113.6	112.5	111.3	110.2
82.5°	73.8	74.9	76.1	76.1	77.2	78.4	78.4	78.4	78.4	77.2	76.1
85°	44.4	45.4	45.4	45.4	45.4	45.4	46.5	47.7	47.7	46.5	46.5
87.5°	20.4	21.6	20.4	19.3	18.1	18.1	20.4	22.7	22.7	21.6	21.6
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: P735627

CATALOG NUMBER: 4APN6-34-B2750-W2D-CP250-5000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	1004.1	1004.1	1004.1	1004.1
2.5°	1013.2	1012.1	1006.4	1000.7
5°	1016.7	1013.2	1005.3	997.3
7.5°	1016.7	1012.1	1000.7	990.4
10°	1011.0	1004.1	991.7	979.1
12.5°	1004.1	996.1	981.4	967.7
15°	994.0	984.8	968.9	953.0
17.5°	979.1	967.7	951.9	934.9
20°	964.3	951.9	932.6	914.4
22.5°	943.9	932.6	912.1	892.8
25°	921.2	908.8	888.2	867.8
27.5°	897.4	882.5	862.1	841.7
30°	870.1	855.3	834.9	814.4
32.5°	840.6	826.9	806.5	784.9
35°	811.0	796.2	775.8	754.2
37.5°	778.1	764.5	744.0	723.5
40°	742.8	729.2	708.8	688.3
42.5°	710.0	697.4	677.0	657.6
45°	673.6	661.2	641.8	623.6
47.5°	636.1	623.6	605.4	587.3
50°	599.8	587.3	570.3	553.2
52.5°	558.9	548.6	532.7	516.9
55°	519.2	508.9	492.9	478.2
57.5°	479.4	470.2	455.5	441.8
60°	437.3	428.3	416.9	404.3
62.5°	397.6	389.6	378.2	366.9
65°	355.5	348.8	338.5	328.2
67.5°	312.4	306.7	297.6	288.5
70°	269.2	262.4	255.6	247.6
72.5°	226.1	222.6	215.8	209.1
75°	185.1	181.8	176.1	170.4
77.5°	146.6	143.1	138.6	134.0
80°	107.9	105.6	102.2	98.9
82.5°	74.9	72.8	70.5	67.1
85°	45.4	43.1	40.8	38.7
87.5°	20.4	19.3	17.0	16.0
90°	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270° - · - · 135°-315°













(END OF REPORT)