

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: P735637

Luminaire Tested: **4APN6-39-B2750-W2D-CP125-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735637
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: 4APN6-39-B2750-W2D-CP125-5000K
Description: 4FT 3900 AMBIENT LUMEN OUTPUT APN WITH BIO UP LEDS AT 5000K CCT, AND CP125 LENS

Light Source: -
Ballast/Driver: -

Summary

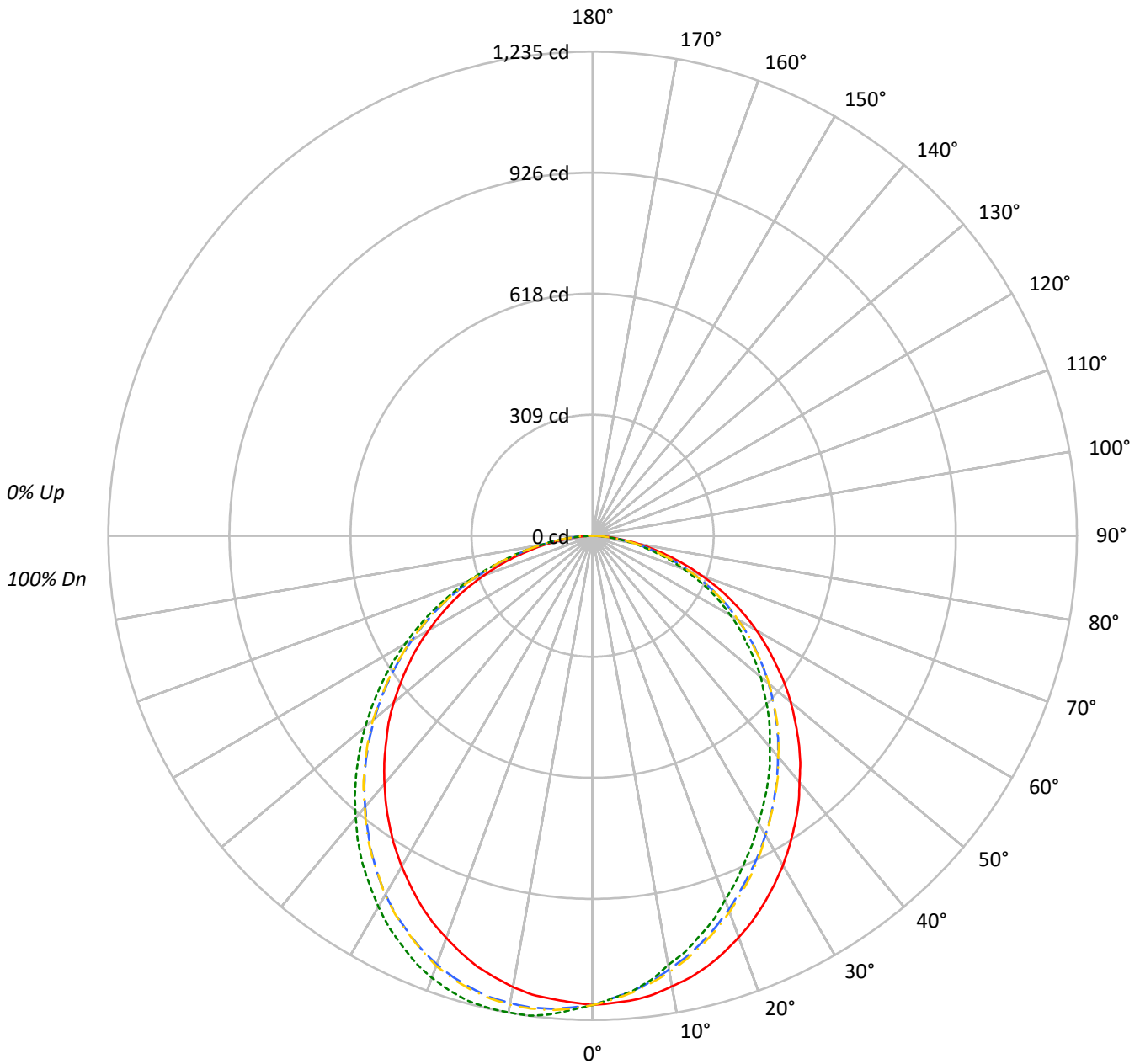
Lumens per Lamp: N/A
Luminaire Lumens: 3210.0 lumens
Efficiency: N/A
Efficacy: 65.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 49.1
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°	11043	11043	11043	11043
5°	11010	10797	10985	11349
10°	10933	10414	10947	11567
15°	10850	10088	10864	11729
20°	10702	9704	10715	11778
25°	10530	9345	10571	11729
30°	10341	9016	10371	11640
35°	10126	8753	10171	11514
40°	9882	8462	9948	11316
45°	9698	8251	9717	11112
50°	9465	8026	9502	10863
55°	9169	7732	9233	10563
60°	8894	7495	8920	10193
65°	8540	7182	8540	9754
70°	7961	6649	7928	9093
75°	7240	6035	7144	8160
80°	6259	5180	6046	6981
85°	4880	3874	4594	5738



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.1	3.5
10°-20°	321.0	10.0
20°-30°	477.2	14.9
30°-40°	562.4	17.5
40°-50°	572.6	17.8
50°-60°	510.1	15.9
60°-70°	384.3	12.0
70°-80°	213.7	6.7
80°-90°	55.5	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°	911.2	28.4
0°-40°	1473.6	45.9
0°-60°	2556.4	79.6
0°-90°	3210.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3210.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1197	1197	1197	1197	1197	
5°	1189	1166	1186	1225	1189	113
15°	1136	1056	1137	1228	1136	320
25°	1034	918	1038	1152	1034	477
35°	899	777	903	1022	899	562
45°	743	632	745	852	743	573
55°	570	481	574	657	570	511
65°	391	329	391	447	391	386
75°	203	169	200	229	203	216
85°	46	37	43	54	46	55
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°	1196.9	1196.9	1196.9	1196.9	1196.9	1196.9	1196.9	1196.9	1196.9	1196.9	1196.9
2.5°	1192.8	1192.8	1194.1	1188.8	1182.0	1179.3	1178.0	1176.6	1179.3	1180.6	1179.3
5°	1188.8	1186.1	1183.3	1176.6	1168.5	1163.0	1160.3	1159.0	1161.7	1165.8	1161.7
7.5°	1180.6	1175.3	1169.8	1160.3	1150.9	1142.7	1138.7	1135.9	1138.7	1142.7	1140.0
10°	1167.0	1160.3	1152.2	1141.4	1127.9	1118.4	1114.3	1110.3	1111.6	1111.6	1111.6
12.5°	1153.5	1144.2	1134.6	1121.1	1106.1	1095.3	1088.5	1083.2	1085.8	1087.3	1087.3
15°	1135.9	1123.8	1110.3	1095.3	1080.5	1068.2	1060.2	1054.7	1056.1	1056.1	1057.4
17.5°	1114.3	1100.8	1087.3	1069.7	1052.0	1038.4	1029.1	1022.3	1024.9	1026.3	1027.6
20°	1090.0	1075.0	1060.2	1041.2	1022.3	1007.3	997.8	989.7	988.4	988.4	989.7
22.5°	1064.2	1047.9	1030.4	1010.0	989.7	973.5	963.9	955.9	954.6	954.6	955.9
25°	1034.4	1016.8	999.2	978.9	957.2	941.1	928.8	920.7	919.3	918.0	920.7
27.5°	1003.3	985.7	968.1	947.8	924.8	908.5	896.2	888.2	885.4	884.1	886.9
30°	970.7	950.4	931.5	909.8	889.5	873.3	861.1	851.6	849.0	846.3	849.0
32.5°	935.6	915.3	894.9	873.3	853.0	836.8	824.5	815.2	812.4	811.0	813.7
35°	899.0	878.7	859.8	838.0	817.7	801.6	789.4	781.3	778.6	777.1	778.6
37.5°	862.4	842.2	823.2	801.6	781.3	765.0	752.8	744.7	743.3	742.0	743.3
40°	820.5	802.9	783.9	763.6	743.3	727.1	717.6	708.1	705.4	702.6	706.8
42.5°	783.9	766.3	747.5	728.4	708.1	691.8	681.0	673.0	670.2	668.8	670.2
45°	743.3	724.4	705.4	687.8	668.8	654.0	643.2	634.9	633.7	632.4	633.7
47.5°	700.1	683.8	667.5	649.9	630.9	616.1	606.6	598.5	595.8	593.0	595.8
50°	659.4	643.2	626.9	610.6	593.0	579.5	570.0	561.9	560.5	559.2	560.5
52.5°	616.1	599.8	585.0	568.7	553.7	540.2	530.8	524.0	522.6	521.3	522.6
55°	570.0	556.4	542.9	529.4	514.5	502.3	494.2	486.0	483.4	480.7	483.4
57.5°	526.6	514.5	501.0	487.5	473.9	463.1	454.9	448.1	446.8	445.4	446.8
60°	482.0	471.2	458.9	446.8	433.3	422.5	415.7	410.2	407.5	406.2	407.5
62.5°	437.3	426.5	417.0	404.8	392.7	384.4	377.7	372.4	369.6	368.3	369.6
65°	391.2	381.9	372.4	361.6	352.0	343.8	337.1	331.7	330.3	329.0	329.0
67.5°	343.8	335.8	327.7	318.2	307.4	299.2	292.4	288.4	287.1	285.6	287.1
70°	295.1	288.4	280.3	272.1	264.0	257.3	253.2	249.2	247.8	246.5	246.5
72.5°	249.2	243.7	237.0	230.2	223.4	216.6	212.6	209.9	208.6	207.1	207.1
75°	203.1	197.6	193.6	188.3	181.5	177.3	173.3	170.5	169.3	169.3	169.3
77.5°	159.7	155.7	151.7	146.2	142.2	138.1	135.4	134.1	132.7	132.7	132.7
80°	117.8	115.1	112.4	109.6	105.6	101.6	100.3	98.8	97.5	97.5	97.5
82.5°	80.0	78.5	75.8	73.2	70.4	69.0	67.7	66.4	66.4	66.4	66.4
85°	46.1	44.7	43.4	41.9	40.6	40.6	39.3	37.9	36.6	36.6	36.6
87.5°	19.0	19.0	19.0	17.6	16.3	16.3	16.3	16.3	16.3	16.3	16.3
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°	1196.9	1196.9	1196.9	1196.9	1196.9	1196.9	1196.9	1196.9	1196.9	1196.9	1196.9
2.5°	1176.6	1179.3	1182.0	1186.1	1190.1	1194.1	1192.8	1191.5	1196.9	1203.6	1205.1
5°	1159.0	1161.7	1165.8	1172.5	1179.3	1184.8	1186.1	1186.1	1196.9	1206.4	1209.1
7.5°	1137.4	1141.4	1146.7	1153.5	1163.0	1171.2	1175.3	1180.6	1191.5	1203.6	1209.1
10°	1110.3	1117.1	1125.1	1134.6	1144.2	1153.5	1161.7	1168.5	1182.0	1195.6	1203.6
12.5°	1085.8	1092.6	1100.8	1111.6	1123.8	1135.9	1144.2	1153.5	1169.8	1186.1	1195.6
15°	1058.7	1065.5	1075.0	1085.8	1099.3	1112.9	1125.1	1137.4	1153.5	1171.2	1182.0
17.5°	1029.1	1035.8	1045.2	1058.7	1073.7	1088.5	1102.1	1115.6	1134.6	1153.5	1165.8
20°	992.5	1002.0	1014.1	1027.6	1045.2	1062.9	1076.5	1091.3	1111.6	1131.9	1145.4
22.5°	957.2	966.7	980.2	996.5	1015.5	1034.4	1050.7	1066.9	1088.5	1108.9	1123.8
25°	923.3	934.3	947.8	963.9	981.7	1000.5	1019.6	1038.4	1060.2	1081.8	1096.8
27.5°	889.5	899.0	912.5	928.8	949.1	968.1	987.0	1006.0	1029.1	1052.0	1068.2
30°	851.6	862.4	874.6	890.9	912.5	934.3	953.1	973.5	996.5	1019.6	1035.8
32.5°	816.4	826.0	838.0	854.3	875.9	897.7	918.0	939.6	961.4	984.3	1000.5
35°	781.3	790.7	802.9	819.2	840.8	862.4	882.7	903.0	924.8	946.4	962.7
37.5°	746.0	755.5	767.8	783.9	804.2	826.0	844.8	865.1	886.9	908.5	923.3
40°	709.4	718.9	728.4	744.7	765.0	786.6	805.6	826.0	847.6	869.2	884.1
42.5°	673.0	682.3	694.6	710.9	729.7	748.7	767.8	786.6	806.9	827.2	842.2
45°	636.4	644.5	656.7	671.5	690.6	708.1	727.1	744.7	765.0	783.9	798.9
47.5°	598.5	606.6	616.1	630.9	649.9	668.8	687.8	705.4	723.0	742.0	755.5
50°	561.9	570.0	580.8	594.3	612.1	629.6	645.9	662.0	679.8	697.3	709.4
52.5°	524.0	532.1	541.6	555.2	570.0	586.3	601.1	617.4	633.7	649.9	662.0
55°	486.0	491.5	499.5	511.8	528.1	544.4	559.2	574.0	589.0	602.5	614.6
57.5°	448.1	454.9	464.4	475.2	488.7	502.3	515.8	529.4	542.9	556.4	567.2
60°	410.2	415.7	422.5	431.8	445.4	457.6	471.2	483.4	495.5	507.8	517.3
62.5°	370.9	376.4	383.2	392.7	403.5	414.3	426.5	437.3	448.1	458.9	468.4
65°	330.3	335.8	342.5	350.6	360.1	369.6	380.4	391.2	399.4	407.5	417.0
67.5°	288.4	293.9	300.6	307.4	315.5	325.0	334.5	343.8	352.0	360.1	366.9
70°	247.8	251.8	258.6	264.0	270.8	277.6	285.6	293.9	299.2	305.9	314.2
72.5°	208.6	212.6	217.9	223.4	227.4	232.9	241.0	247.8	254.5	262.7	266.8
75°	170.5	173.3	177.3	181.5	185.5	189.6	195.0	200.4	205.8	209.9	215.4
77.5°	132.7	135.4	139.4	142.2	144.9	147.7	151.7	155.7	159.7	162.5	168.0
80°	97.5	100.3	102.8	105.6	108.3	111.1	112.4	113.8	119.1	123.2	125.9
82.5°	66.4	67.7	69.0	71.7	73.2	74.5	75.8	75.8	78.5	81.2	85.3
85°	37.9	39.3	40.6	40.6	40.6	40.6	41.9	43.4	44.7	47.4	50.1
87.5°	14.8	14.8	16.3	16.3	16.3	16.3	16.3	16.3	17.6	20.3	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



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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1196.9	1196.9	1196.9	1196.9	1196.9	1196.9	1196.9	1196.9	1196.9	1196.9	1196.9
2.5°	1203.6	1205.1	1207.7	1209.1	1210.4	1210.4	1211.9	1213.1	1210.4	1207.7	1206.4
5°	1210.4	1211.9	1215.9	1219.9	1222.7	1225.4	1223.9	1222.7	1219.9	1215.9	1213.1
7.5°	1211.9	1215.9	1219.9	1225.4	1229.4	1234.7	1232.2	1229.4	1223.9	1218.6	1214.4
10°	1207.7	1213.1	1219.9	1226.7	1230.7	1234.7	1232.2	1229.4	1223.9	1217.2	1211.9
12.5°	1202.3	1209.1	1217.2	1223.9	1228.0	1233.5	1229.4	1225.4	1218.6	1211.9	1205.1
15°	1190.1	1198.3	1207.7	1215.9	1222.7	1228.0	1223.9	1221.2	1213.1	1203.6	1194.1
17.5°	1175.3	1186.1	1195.6	1205.1	1210.4	1215.9	1213.1	1210.4	1200.9	1190.1	1179.3
20°	1157.7	1168.5	1178.0	1187.4	1194.1	1199.6	1195.6	1191.5	1182.0	1172.5	1161.7
22.5°	1135.9	1146.7	1157.7	1167.0	1173.8	1179.3	1173.8	1167.0	1157.7	1148.2	1137.4
25°	1108.9	1121.1	1133.2	1142.7	1146.7	1152.2	1146.7	1141.4	1131.9	1122.4	1110.3
27.5°	1081.8	1094.0	1106.1	1115.6	1119.7	1125.1	1119.7	1114.3	1104.8	1095.3	1083.2
30°	1050.7	1062.9	1075.0	1084.5	1088.5	1092.6	1087.3	1081.8	1073.7	1064.2	1052.0
32.5°	1015.5	1027.6	1037.1	1046.6	1052.0	1057.4	1052.0	1047.9	1038.4	1026.3	1014.1
35°	977.5	989.7	1002.0	1011.3	1016.8	1022.3	1015.5	1008.8	1000.5	991.0	980.2
37.5°	935.6	949.1	962.7	973.5	977.5	983.0	977.5	970.7	962.7	953.1	941.1
40°	896.2	908.5	920.7	931.5	935.6	939.6	934.3	928.8	919.3	909.8	897.7
42.5°	855.8	867.9	878.7	888.2	892.2	897.7	892.2	885.4	878.7	870.6	859.8
45°	812.4	824.5	834.0	843.5	847.6	851.6	846.3	839.5	832.7	826.0	815.2
47.5°	767.8	778.6	788.1	797.4	800.2	804.2	798.9	794.8	788.1	781.3	771.8
50°	721.7	732.5	742.0	750.0	752.8	756.8	751.5	746.0	740.7	735.2	727.1
52.5°	674.3	683.8	693.3	701.4	704.1	706.8	701.4	695.9	690.6	685.1	677.0
55°	625.6	634.9	644.5	651.2	654.0	656.7	651.2	647.2	641.7	637.7	629.6
57.5°	576.8	586.3	594.3	601.1	603.8	606.6	601.1	595.8	591.7	587.6	580.8
60°	526.6	536.1	542.9	548.4	551.1	552.4	546.9	542.9	540.2	537.6	530.8
62.5°	477.9	484.7	491.5	495.5	498.3	499.5	495.5	492.8	490.2	487.5	482.0
65°	426.5	434.6	440.1	444.1	445.4	446.8	442.8	440.1	437.3	434.6	430.5
67.5°	375.1	381.9	385.9	389.9	391.2	391.2	391.2	389.9	387.2	383.2	379.1
70°	323.5	329.0	333.0	335.8	337.1	337.1	334.5	331.7	331.7	330.3	327.7
72.5°	270.8	274.8	277.6	280.3	280.3	280.3	280.3	281.6	280.3	277.6	273.5
75°	220.7	224.7	227.4	228.9	228.9	228.9	228.9	230.2	228.9	227.4	224.7
77.5°	173.3	176.0	177.3	178.8	178.8	178.8	180.1	181.5	180.1	178.8	177.3
80°	128.6	129.9	131.4	132.7	131.4	131.4	132.7	135.4	134.1	132.7	131.4
82.5°	88.0	89.3	90.8	90.8	92.0	93.5	93.5	93.5	93.5	92.0	90.8
85°	52.9	54.2	54.2	54.2	54.2	54.2	55.5	56.9	56.9	55.5	55.5
87.5°	24.3	25.8	24.3	23.1	21.6	21.6	24.3	27.1	27.1	25.8	25.8
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: P735637

CATALOG NUMBER: 4APN6-39-B2750-W2D-CP125-5000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	1196.9	1196.9	1196.9	1196.9
2.5°	1207.7	1206.4	1199.6	1192.8
5°	1211.9	1207.7	1198.3	1188.8
7.5°	1211.9	1206.4	1192.8	1180.6
10°	1205.1	1196.9	1182.0	1167.0
12.5°	1196.9	1187.4	1169.8	1153.5
15°	1184.8	1173.8	1155.0	1135.9
17.5°	1167.0	1153.5	1134.6	1114.3
20°	1149.5	1134.6	1111.6	1090.0
22.5°	1125.1	1111.6	1087.3	1064.2
25°	1098.1	1083.2	1058.7	1034.4
27.5°	1069.7	1052.0	1027.6	1003.3
30°	1037.1	1019.6	995.2	970.7
32.5°	1002.0	985.7	961.4	935.6
35°	966.7	949.1	924.8	899.0
37.5°	927.5	911.2	886.9	862.4
40°	885.4	869.2	844.8	820.5
42.5°	846.3	831.3	806.9	783.9
45°	802.9	788.1	765.0	743.3
47.5°	758.3	743.3	721.7	700.1
50°	714.9	700.1	679.8	659.4
52.5°	666.2	654.0	634.9	616.1
55°	618.8	606.6	587.6	570.0
57.5°	571.4	560.5	542.9	526.6
60°	521.3	510.5	497.0	482.0
62.5°	473.9	464.4	450.9	437.3
65°	423.8	415.7	403.5	391.2
67.5°	372.4	365.6	354.8	343.8
70°	320.9	312.7	304.7	295.1
72.5°	269.5	265.3	257.3	249.2
75°	220.7	216.6	209.9	203.1
77.5°	174.7	170.5	165.2	159.7
80°	128.6	125.9	121.9	117.8
82.5°	89.3	86.7	84.0	80.0
85°	54.2	51.4	48.7	46.1
87.5°	24.3	23.1	20.3	19.0
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)