

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: P735636

Luminaire Tested: **4APN6-39-B2750-W2D-CP125-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735636
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-CP125-4000K
Description: 4FT 3900 AMBIENT LUMEN OUTPUT APN WITH BIO UP LEDS AT 4000K CCT, AND CP125 LENS

Light Source: -
Ballast/Driver: -

Summary

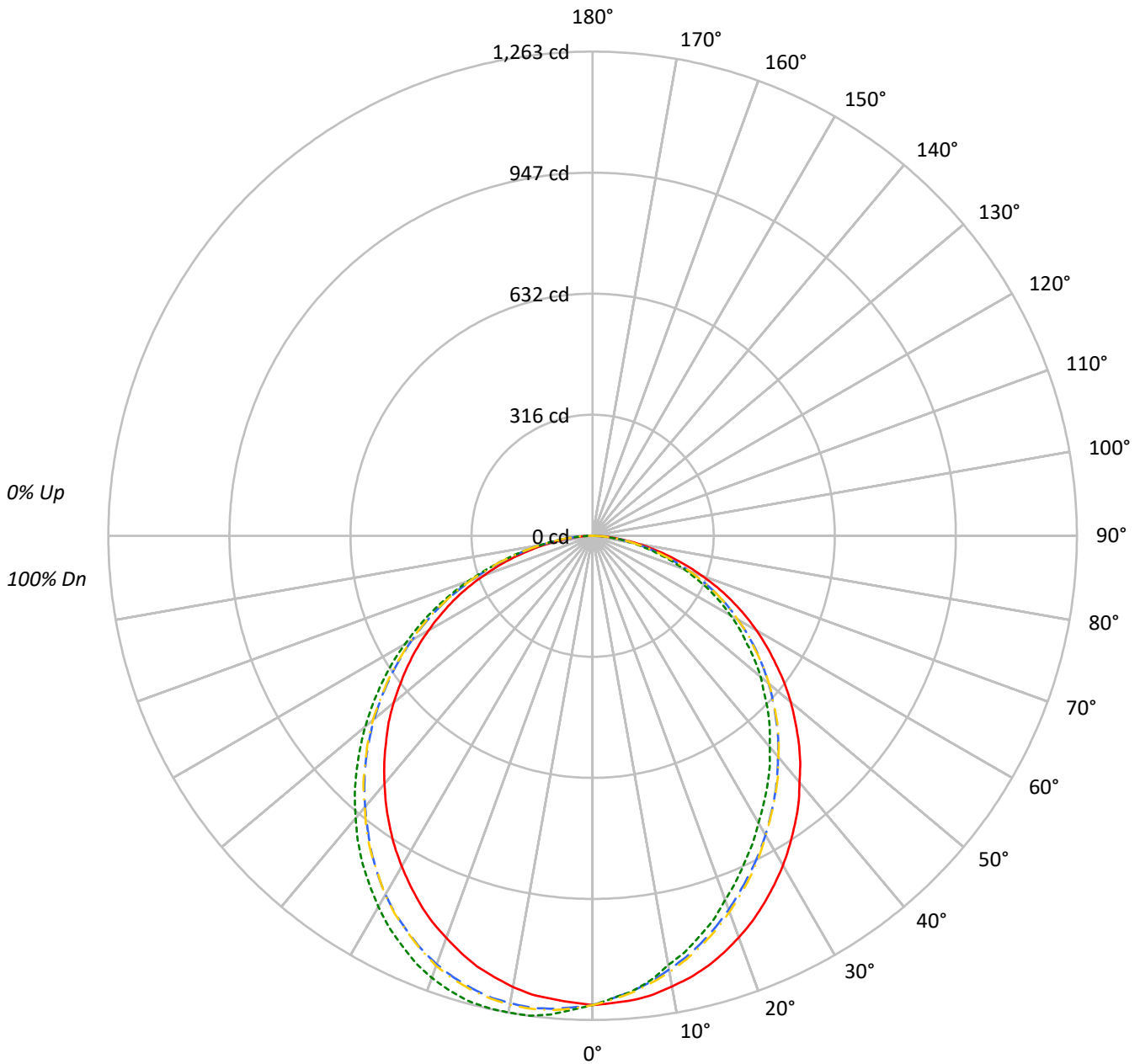
Lumens per Lamp: N/A
Luminaire Lumens: 3283.0 lumens
Efficiency: N/A
Efficacy: 66.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 49.1
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°	11294	11294	11294	11294
5°	11260	11042	11234	11607
10°	11182	10651	11196	11831
15°	11097	10318	11111	11996
20°	10945	9925	10958	12046
25°	10769	9558	10811	11996
30°	10577	9221	10607	11904
35°	10355	8952	10401	11776
40°	10106	8655	10174	11574
45°	9919	8438	9939	11365
50°	9680	8209	9719	11110
55°	9376	7908	9444	10803
60°	9095	7665	9123	10426
65°	8735	7346	8735	9977
70°	8144	6801	8106	9298
75°	7404	6171	7304	8345
80°	6402	5297	6185	7141
85°	4986	3959	4690	5865



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.7	3.5
10°-20°	328.3	10.0
20°-30°	488.0	14.9
30°-40°	575.2	17.5
40°-50°	585.7	17.8
50°-60°	521.7	15.9
60°-70°	393.1	12.0
70°-80°	218.6	6.7
80°-90°	56.8	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°	931.9	28.4
0°-40°	1507.1	45.9
0°-60°	2614.5	79.6
0°-90°	3283.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3283.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1224	1224	1224	1224	1224	
5°	1216	1192	1213	1253	1216	115
15°	1162	1080	1163	1256	1162	327
25°	1058	939	1062	1178	1058	487
35°	919	795	924	1046	919	575
45°	760	647	762	871	760	586
55°	583	492	587	672	583	522
65°	400	336	400	457	400	395
75°	208	173	205	234	208	221
85°	47	37	44	55	47	57
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°	1224.1	1224.1	1224.1	1224.1	1224.1	1224.1	1224.1	1224.1	1224.1	1224.1	1224.1
2.5°	1220.0	1220.0	1221.3	1215.8	1208.9	1206.1	1204.8	1203.3	1206.1	1207.4	1206.1
5°	1215.8	1213.0	1210.2	1203.3	1195.1	1189.5	1186.7	1185.3	1188.1	1192.3	1188.1
7.5°	1207.4	1202.0	1196.4	1186.7	1177.1	1168.7	1164.6	1161.8	1164.6	1168.7	1165.9
10°	1193.6	1186.7	1178.4	1167.4	1153.5	1143.8	1139.7	1135.6	1136.9	1136.9	1136.9
12.5°	1179.7	1170.2	1160.4	1146.6	1131.3	1120.2	1113.3	1107.9	1110.5	1112.0	1112.0
15°	1161.8	1149.4	1135.6	1120.2	1105.1	1092.5	1084.3	1078.7	1080.2	1080.2	1081.5
17.5°	1139.7	1125.8	1112.0	1094.0	1075.9	1062.0	1052.5	1045.5	1048.2	1049.7	1051.0
20°	1114.8	1099.4	1084.3	1064.8	1045.5	1030.2	1020.5	1012.2	1010.9	1010.9	1012.2
22.5°	1088.4	1071.8	1053.8	1033.0	1012.2	995.6	985.9	977.6	976.3	976.3	977.6
25°	1057.9	1039.9	1022.0	1001.2	978.9	962.5	949.9	941.7	940.2	938.9	941.7
27.5°	1026.1	1008.1	990.1	969.4	945.8	929.1	916.6	908.4	905.6	904.3	907.1
30°	992.8	972.0	952.7	930.5	909.7	893.2	880.7	871.0	868.3	865.5	868.3
32.5°	956.8	936.1	915.3	893.2	872.4	855.8	843.3	833.7	830.9	829.4	832.2
35°	919.4	898.7	879.4	857.1	836.3	819.8	807.3	799.1	796.3	794.8	796.3
37.5°	882.0	861.4	841.9	819.8	799.1	782.4	769.9	761.7	760.2	758.8	760.2
40°	839.1	821.2	801.7	780.9	760.2	743.7	734.0	724.2	721.4	718.6	722.9
42.5°	801.7	783.7	764.5	745.0	724.2	707.6	696.5	688.3	685.5	684.0	685.5
45°	760.2	740.9	721.4	703.5	684.0	668.8	657.8	649.4	648.1	646.7	648.1
47.5°	716.0	699.3	682.7	664.7	645.3	630.1	620.4	612.1	609.3	606.5	609.3
50°	674.4	657.8	641.1	624.5	606.5	592.7	582.9	574.7	573.2	571.9	573.2
52.5°	630.1	613.4	598.3	581.6	566.3	552.4	542.9	536.0	534.5	533.2	534.5
55°	582.9	569.1	555.2	541.4	526.2	513.7	505.5	497.1	494.4	491.6	494.4
57.5°	538.6	526.2	512.4	498.5	484.7	473.6	465.2	458.3	457.0	455.5	457.0
60°	492.9	481.9	469.4	457.0	443.1	432.1	425.2	419.6	416.8	415.4	416.8
62.5°	447.3	436.2	426.5	414.0	401.6	393.2	386.3	380.8	378.0	376.7	378.0
65°	400.1	390.6	380.8	369.8	360.1	351.6	344.7	339.3	337.8	336.5	336.5
67.5°	351.6	343.4	335.2	325.4	314.4	306.0	299.1	294.9	293.6	292.1	293.6
70°	301.9	294.9	286.7	278.3	270.0	263.1	259.0	254.9	253.4	252.1	252.1
72.5°	254.9	249.3	242.3	235.4	228.5	221.6	217.4	214.6	213.3	211.8	211.8
75°	207.7	202.1	198.0	192.6	185.6	181.3	177.2	174.4	173.1	173.1	173.1
77.5°	163.4	159.3	155.1	149.5	145.4	141.3	138.5	137.2	135.7	135.7	135.7
80°	120.5	117.7	114.9	112.1	108.0	103.9	102.5	101.1	99.7	99.7	99.7
82.5°	81.8	80.3	77.5	74.8	72.0	70.6	69.2	67.9	67.9	67.9	67.9
85°	47.1	45.7	44.3	42.9	41.5	41.5	40.2	38.7	37.4	37.4	37.4
87.5°	19.5	19.5	19.5	18.0	16.7	16.7	16.7	16.7	16.7	16.7	16.7
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°	1224.1	1224.1	1224.1	1224.1	1224.1	1224.1	1224.1	1224.1	1224.1	1224.1	1224.1
2.5°	1203.3	1206.1	1208.9	1213.0	1217.2	1221.3	1220.0	1218.6	1224.1	1231.0	1232.5
5°	1185.3	1188.1	1192.3	1199.2	1206.1	1211.7	1213.0	1213.0	1224.1	1233.8	1236.6
7.5°	1163.3	1167.4	1172.8	1179.7	1189.5	1197.9	1202.0	1207.4	1218.6	1231.0	1236.6
10°	1135.6	1142.5	1150.7	1160.4	1170.2	1179.7	1188.1	1195.1	1208.9	1222.8	1231.0
12.5°	1110.5	1117.4	1125.8	1136.9	1149.4	1161.8	1170.2	1179.7	1196.4	1213.0	1222.8
15°	1082.8	1089.7	1099.4	1110.5	1124.3	1138.2	1150.7	1163.3	1179.7	1197.9	1208.9
17.5°	1052.5	1059.4	1069.0	1082.8	1098.1	1113.3	1127.1	1141.0	1160.4	1179.7	1192.3
20°	1015.0	1024.8	1037.1	1051.0	1069.0	1087.1	1100.9	1116.1	1136.9	1157.6	1171.5
22.5°	978.9	988.7	1002.5	1019.2	1038.6	1057.9	1074.6	1091.2	1113.3	1134.1	1149.4
25°	944.3	955.5	969.4	985.9	1004.0	1023.3	1042.7	1062.0	1084.3	1106.4	1121.7
27.5°	909.7	919.4	933.3	949.9	970.7	990.1	1009.4	1028.9	1052.5	1075.9	1092.5
30°	871.0	882.0	894.5	911.2	933.3	955.5	974.8	995.6	1019.2	1042.7	1059.4
32.5°	835.0	844.7	857.1	873.8	895.8	918.1	938.9	961.0	983.2	1006.6	1023.3
35°	799.1	808.6	821.2	837.8	859.9	882.0	902.8	923.5	945.8	967.9	984.5
37.5°	763.0	772.7	785.2	801.7	822.5	844.7	864.0	884.8	907.1	929.1	944.3
40°	725.5	735.3	745.0	761.7	782.4	804.5	824.0	844.7	866.8	888.9	904.3
42.5°	688.3	697.9	710.4	727.0	746.3	765.8	785.2	804.5	825.3	846.1	861.4
45°	650.9	659.1	671.6	686.8	706.3	724.2	743.7	761.7	782.4	801.7	817.0
47.5°	612.1	620.4	630.1	645.3	664.7	684.0	703.5	721.4	739.4	758.8	772.7
50°	574.7	582.9	594.0	607.8	626.0	643.9	660.6	677.1	695.2	713.2	725.5
52.5°	536.0	544.2	553.9	567.8	582.9	599.6	614.8	631.4	648.1	664.7	677.1
55°	497.1	502.7	510.9	523.4	540.1	556.7	571.9	587.1	602.4	616.2	628.6
57.5°	458.3	465.2	475.0	486.0	499.9	513.7	527.6	541.4	555.2	569.1	580.1
60°	419.6	425.2	432.1	441.7	455.5	468.0	481.9	494.4	506.8	519.3	529.0
62.5°	379.3	384.9	391.9	401.6	412.6	423.7	436.2	447.3	458.3	469.4	479.1
65°	337.8	343.4	350.3	358.6	368.3	378.0	389.1	400.1	408.5	416.8	426.5
67.5°	294.9	300.5	307.5	314.4	322.6	332.4	342.1	351.6	360.1	368.3	375.2
70°	253.4	257.5	264.4	270.0	277.0	283.9	292.1	300.5	306.0	312.9	321.3
72.5°	213.3	217.4	222.9	228.5	232.6	238.2	246.5	253.4	260.3	268.7	272.8
75°	174.4	177.2	181.3	185.6	189.8	193.9	199.5	204.9	210.5	214.6	220.3
77.5°	135.7	138.5	142.6	145.4	148.2	151.0	155.1	159.3	163.4	166.2	171.8
80°	99.7	102.5	105.2	108.0	110.8	113.6	114.9	116.4	121.8	126.0	128.8
82.5°	67.9	69.2	70.6	73.4	74.8	76.2	77.5	77.5	80.3	83.1	87.2
85°	38.7	40.2	41.5	41.5	41.5	41.5	42.9	44.3	45.7	48.5	51.3
87.5°	15.2	15.2	16.7	16.7	16.7	16.7	16.7	16.7	18.0	20.8	22.1
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°	1224.1	1224.1	1224.1	1224.1	1224.1	1224.1	1224.1	1224.1	1224.1	1224.1	1224.1
2.5°	1231.0	1232.5	1235.1	1236.6	1237.9	1237.9	1239.4	1240.7	1237.9	1235.1	1233.8
5°	1237.9	1239.4	1243.5	1247.7	1250.5	1253.3	1251.8	1250.5	1247.7	1243.5	1240.7
7.5°	1239.4	1243.5	1247.7	1253.3	1257.4	1262.8	1260.2	1257.4	1251.8	1246.3	1242.1
10°	1235.1	1240.7	1247.7	1254.6	1258.7	1262.8	1260.2	1257.4	1251.8	1244.9	1239.4
12.5°	1229.7	1236.6	1244.9	1251.8	1255.9	1261.5	1257.4	1253.3	1246.3	1239.4	1232.5
15°	1217.2	1225.6	1235.1	1243.5	1250.5	1255.9	1251.8	1249.0	1240.7	1231.0	1221.3
17.5°	1202.0	1213.0	1222.8	1232.5	1237.9	1243.5	1240.7	1237.9	1228.2	1217.2	1206.1
20°	1184.0	1195.1	1204.8	1214.4	1221.3	1226.9	1222.8	1218.6	1208.9	1199.2	1188.1
22.5°	1161.8	1172.8	1184.0	1193.6	1200.5	1206.1	1200.5	1193.6	1184.0	1174.3	1163.3
25°	1134.1	1146.6	1159.0	1168.7	1172.8	1178.4	1172.8	1167.4	1157.6	1147.9	1135.6
27.5°	1106.4	1118.9	1131.3	1141.0	1145.1	1150.7	1145.1	1139.7	1129.9	1120.2	1107.9
30°	1074.6	1087.1	1099.4	1109.2	1113.3	1117.4	1112.0	1106.4	1098.1	1088.4	1075.9
32.5°	1038.6	1051.0	1060.7	1070.4	1075.9	1081.5	1075.9	1071.8	1062.0	1049.7	1037.1
35°	999.7	1012.2	1024.8	1034.3	1039.9	1045.5	1038.6	1031.7	1023.3	1013.6	1002.5
37.5°	956.8	970.7	984.5	995.6	999.7	1005.3	999.7	992.8	984.5	974.8	962.5
40°	916.6	929.1	941.7	952.7	956.8	961.0	955.5	949.9	940.2	930.5	918.1
42.5°	875.2	887.6	898.7	908.4	912.5	918.1	912.5	905.6	898.7	890.4	879.4
45°	830.9	843.3	853.0	862.7	866.8	871.0	865.5	858.6	851.7	844.7	833.7
47.5°	785.2	796.3	806.0	815.6	818.4	822.5	817.0	812.9	806.0	799.1	789.3
50°	738.1	749.1	758.8	767.1	769.9	774.0	768.6	763.0	757.5	751.9	743.7
52.5°	689.6	699.3	709.1	717.3	720.1	722.9	717.3	711.7	706.3	700.7	692.4
55°	639.8	649.4	659.1	666.0	668.8	671.6	666.0	661.9	656.3	652.2	643.9
57.5°	589.9	599.6	607.8	614.8	617.6	620.4	614.8	609.3	605.2	600.9	594.0
60°	538.6	548.3	555.2	560.9	563.7	565.0	559.4	555.2	552.4	549.8	542.9
62.5°	488.8	495.7	502.7	506.8	509.6	510.9	506.8	504.0	501.3	498.5	492.9
65°	436.2	444.5	450.1	454.2	455.5	457.0	452.9	450.1	447.3	444.5	440.3
67.5°	383.6	390.6	394.7	398.8	400.1	400.1	400.1	398.8	396.0	391.9	387.8
70°	330.9	336.5	340.6	343.4	344.7	344.7	342.1	339.3	339.3	337.8	335.2
72.5°	277.0	281.1	283.9	286.7	286.7	286.7	286.7	288.0	286.7	283.9	279.8
75°	225.7	229.8	232.6	234.1	234.1	234.1	234.1	235.4	234.1	232.6	229.8
77.5°	177.2	180.0	181.3	182.8	182.8	182.8	184.1	185.6	184.1	182.8	181.3
80°	131.6	132.9	134.4	135.7	134.4	134.4	135.7	138.5	137.2	135.7	134.4
82.5°	90.0	91.3	92.8	92.8	94.1	95.6	95.6	95.6	95.6	94.1	92.8
85°	54.1	55.4	55.4	55.4	55.4	55.4	56.7	58.2	58.2	56.7	56.7
87.5°	24.9	26.4	24.9	23.6	22.1	22.1	24.9	27.7	27.7	26.4	26.4
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: P735636

CATALOG NUMBER: 4APN6-39-B2750-W2D-CP125-4000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	1224.1	1224.1	1224.1	1224.1
2.5°	1235.1	1233.8	1226.9	1220.0
5°	1239.4	1235.1	1225.6	1215.8
7.5°	1239.4	1233.8	1220.0	1207.4
10°	1232.5	1224.1	1208.9	1193.6
12.5°	1224.1	1214.4	1196.4	1179.7
15°	1211.7	1200.5	1181.2	1161.8
17.5°	1193.6	1179.7	1160.4	1139.7
20°	1175.6	1160.4	1136.9	1114.8
22.5°	1150.7	1136.9	1112.0	1088.4
25°	1123.0	1107.9	1082.8	1057.9
27.5°	1094.0	1075.9	1051.0	1026.1
30°	1060.7	1042.7	1017.8	992.8
32.5°	1024.8	1008.1	983.2	956.8
35°	988.7	970.7	945.8	919.4
37.5°	948.6	932.0	907.1	882.0
40°	905.6	888.9	864.0	839.1
42.5°	865.5	850.2	825.3	801.7
45°	821.2	806.0	782.4	760.2
47.5°	775.5	760.2	738.1	716.0
50°	731.2	716.0	695.2	674.4
52.5°	681.4	668.8	649.4	630.1
55°	632.9	620.4	600.9	582.9
57.5°	584.4	573.2	555.2	538.6
60°	533.2	522.1	508.3	492.9
62.5°	484.7	475.0	461.1	447.3
65°	433.4	425.2	412.6	400.1
67.5°	380.8	373.9	362.9	351.6
70°	328.2	319.8	311.6	301.9
72.5°	275.6	271.4	263.1	254.9
75°	225.7	221.6	214.6	207.7
77.5°	178.7	174.4	169.0	163.4
80°	131.6	128.8	124.6	120.5
82.5°	91.3	88.7	85.9	81.8
85°	55.4	52.6	49.8	47.1
87.5°	24.9	23.6	20.8	19.5
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)