

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: P735634

Luminaire Tested: **4APN6-39-B2750-W2D-CP125-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735634
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-CP125-3000K
Description: 4FT 3900 AMBIENT LUMEN OUTPUT APN WITH BIO UP LEDS AT 3000K CCT, AND CP125 LENS

Light Source: -
Ballast/Driver: -

Summary

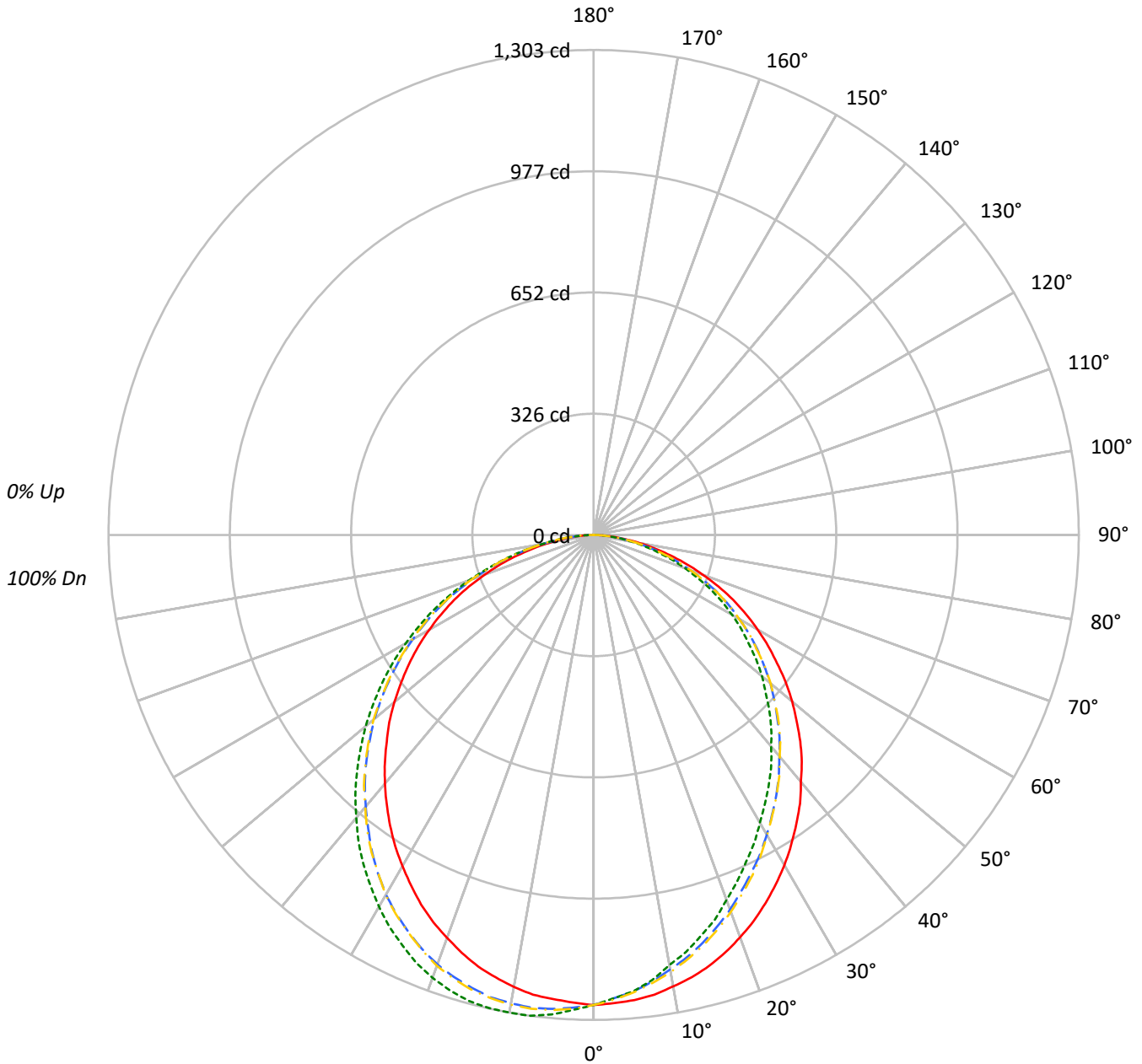
Lumens per Lamp: N/A
Luminaire Lumens: 3388.0 lumens
Efficiency: N/A
Efficacy: 69.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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°	11655	11655	11655	11655
5°	11620	11395	11593	11978
10°	11540	10991	11554	12209
15°	11451	10647	11467	12380
20°	11295	10243	11309	12431
25°	11113	9863	11157	12380
30°	10915	9516	10945	12286
35°	10686	9238	10735	12153
40°	10430	8932	10500	11944
45°	10236	8708	10256	11727
50°	9990	8471	10029	11466
55°	9677	8160	9745	11149
60°	9387	7911	9414	10758
65°	9014	7580	9014	10296
70°	8403	7016	8368	9595
75°	7643	6367	7539	8612
80°	6610	5467	6381	7369
85°	5155	4086	4848	6055



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.4	3.5
10°-20°	338.8	10.0
20°-30°	503.6	14.9
30°-40°	593.6	17.5
40°-50°	604.4	17.8
50°-60°	538.4	15.9
60°-70°	405.6	12.0
70°-80°	225.6	6.7
80°-90°	58.6	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°	961.7	28.4
0°-40°	1555.3	45.9
0°-60°	2698.1	79.6
0°-90°	3388.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3388.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1263	1263	1263	1263	1263	
5°	1255	1230	1252	1293	1255	119
15°	1199	1115	1200	1296	1199	338
25°	1092	969	1096	1216	1092	503
35°	949	820	953	1079	949	594
45°	784	667	786	899	784	605
55°	602	507	606	693	602	539
65°	413	347	413	472	413	408
75°	214	179	212	242	214	228
85°	49	39	46	57	49	59
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°	1263.2	1263.2	1263.2	1263.2	1263.2	1263.2	1263.2	1263.2	1263.2	1263.2	1263.2
2.5°	1259.0	1259.0	1260.3	1254.7	1247.6	1244.7	1243.3	1241.8	1244.7	1246.0	1244.7
5°	1254.7	1251.8	1248.9	1241.8	1233.3	1227.5	1224.6	1223.3	1226.1	1230.4	1226.1
7.5°	1246.0	1240.4	1234.7	1224.6	1214.7	1206.1	1201.8	1198.9	1201.8	1206.1	1203.2
10°	1231.8	1224.6	1216.1	1204.7	1190.4	1180.4	1176.1	1171.9	1173.2	1173.2	1173.2
12.5°	1217.5	1207.6	1197.6	1183.3	1167.4	1156.0	1148.9	1143.3	1146.0	1147.5	1147.5
15°	1198.9	1186.2	1171.9	1156.0	1140.4	1127.5	1119.0	1113.2	1114.7	1114.7	1116.1
17.5°	1176.1	1161.8	1147.5	1129.0	1110.3	1096.0	1086.1	1079.0	1081.7	1083.2	1084.6
20°	1150.4	1134.6	1119.0	1098.9	1079.0	1063.2	1053.1	1044.6	1043.3	1043.3	1044.6
22.5°	1123.2	1106.0	1087.5	1066.0	1044.6	1027.4	1017.4	1008.9	1007.5	1007.5	1008.9
25°	1091.7	1073.2	1054.7	1033.2	1010.2	993.2	980.3	971.8	970.3	968.9	971.8
27.5°	1058.9	1040.4	1021.8	1000.4	976.0	958.9	945.9	937.4	934.5	933.2	936.1
30°	1024.5	1003.1	983.2	960.2	938.8	921.8	908.8	898.8	896.1	893.2	896.1
32.5°	987.4	966.0	944.6	921.8	900.3	883.2	870.2	860.4	857.5	855.9	858.8
35°	948.8	927.4	907.5	884.5	863.1	846.1	833.1	824.6	821.7	820.2	821.7
37.5°	910.2	888.9	868.9	846.1	824.6	807.4	794.5	786.0	784.5	783.1	784.5
40°	866.0	847.4	827.4	805.9	784.5	767.5	757.4	747.4	744.5	741.6	746.0
42.5°	827.4	808.8	788.9	768.8	747.4	730.2	718.8	710.3	707.4	705.9	707.4
45°	784.5	764.6	744.5	726.0	705.9	690.2	678.8	670.2	668.8	667.4	668.8
47.5°	738.9	721.7	704.5	686.0	665.9	650.2	640.2	631.7	628.8	625.9	628.8
50°	696.0	678.8	661.6	644.5	625.9	611.6	601.6	593.1	591.6	590.2	591.6
52.5°	650.2	633.1	617.4	600.2	584.4	570.1	560.2	553.1	551.6	550.2	551.6
55°	601.6	587.3	573.0	558.7	543.1	530.1	521.6	512.9	510.2	507.3	510.2
57.5°	555.8	543.1	528.8	514.5	500.2	488.8	480.1	473.0	471.6	470.1	471.6
60°	508.7	497.3	484.4	471.6	457.3	445.9	438.8	433.0	430.1	428.7	430.1
62.5°	461.6	450.2	440.1	427.2	414.4	405.8	398.6	393.0	390.1	388.8	390.1
65°	412.9	403.0	393.0	381.6	371.6	362.9	355.7	350.1	348.6	347.2	347.2
67.5°	362.9	354.4	345.9	335.8	324.4	315.8	308.6	304.4	303.0	301.5	303.0
70°	311.5	304.4	295.9	287.2	278.7	271.5	267.3	263.0	261.5	260.1	260.1
72.5°	263.0	257.2	250.1	242.9	235.8	228.7	224.4	221.5	220.2	218.6	218.6
75°	214.4	208.6	204.3	198.7	191.6	187.1	182.9	180.0	178.6	178.6	178.6
77.5°	168.6	164.3	160.1	154.3	150.1	145.8	142.9	141.6	140.0	140.0	140.0
80°	124.4	121.5	118.6	115.7	111.4	107.2	105.8	104.3	102.9	102.9	102.9
82.5°	84.4	82.9	80.0	77.2	74.3	72.8	71.5	70.1	70.1	70.1	70.1
85°	48.7	47.1	45.8	44.2	42.9	42.9	41.5	40.0	38.6	38.6	38.6
87.5°	20.1	20.1	20.1	18.5	17.2	17.2	17.2	17.2	17.2	17.2	17.2
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°	1263.2	1263.2	1263.2	1263.2	1263.2	1263.2	1263.2	1263.2	1263.2	1263.2	1263.2
2.5°	1241.8	1244.7	1247.6	1251.8	1256.1	1260.3	1259.0	1257.6	1263.2	1270.4	1271.9
5°	1223.3	1226.1	1230.4	1237.5	1244.7	1250.5	1251.8	1251.8	1263.2	1273.3	1276.2
7.5°	1200.5	1204.7	1210.3	1217.5	1227.5	1236.2	1240.4	1246.0	1257.6	1270.4	1276.2
10°	1171.9	1179.0	1187.5	1197.6	1207.6	1217.5	1226.1	1233.3	1247.6	1261.9	1270.4
12.5°	1146.0	1153.2	1161.8	1173.2	1186.2	1198.9	1207.6	1217.5	1234.7	1251.8	1261.9
15°	1117.4	1124.6	1134.6	1146.0	1160.3	1174.6	1187.5	1200.5	1217.5	1236.2	1247.6
17.5°	1086.1	1093.3	1103.1	1117.4	1133.3	1148.9	1163.2	1177.5	1197.6	1217.5	1230.4
20°	1047.5	1057.5	1070.3	1084.6	1103.1	1121.9	1136.1	1151.8	1173.2	1194.7	1209.0
22.5°	1010.2	1020.3	1034.6	1051.8	1071.8	1091.7	1108.9	1126.1	1148.9	1170.3	1186.2
25°	974.5	986.1	1000.4	1017.4	1036.1	1056.0	1076.1	1096.0	1119.0	1141.8	1157.6
27.5°	938.8	948.8	963.1	980.3	1001.7	1021.8	1041.7	1061.8	1086.1	1110.3	1127.5
30°	898.8	910.2	923.1	940.3	963.1	986.1	1006.0	1027.4	1051.8	1076.1	1093.3
32.5°	861.7	871.8	884.5	901.7	924.5	947.5	968.9	991.7	1014.7	1038.8	1056.0
35°	824.6	834.5	847.4	864.6	887.4	910.2	931.6	953.1	976.0	998.8	1016.0
37.5°	787.4	797.4	810.3	827.4	848.8	871.8	891.7	913.1	936.1	958.9	974.5
40°	748.8	758.8	768.8	786.0	807.4	830.2	850.3	871.8	894.6	917.4	933.2
42.5°	710.3	720.2	733.1	750.3	770.2	790.3	810.3	830.2	851.7	873.1	888.9
45°	671.7	680.2	693.1	708.8	728.8	747.4	767.5	786.0	807.4	827.4	843.2
47.5°	631.7	640.2	650.2	665.9	686.0	705.9	726.0	744.5	763.0	783.1	797.4
50°	593.1	601.6	613.0	627.3	646.0	664.5	681.7	698.7	717.4	736.0	748.8
52.5°	553.1	561.6	571.6	585.9	601.6	618.8	634.4	651.6	668.8	686.0	698.7
55°	512.9	518.7	527.2	540.2	557.4	574.5	590.2	605.8	621.7	636.0	648.7
57.5°	473.0	480.1	490.2	501.6	515.8	530.1	544.4	558.7	573.0	587.3	598.7
60°	433.0	438.8	445.9	455.8	470.1	483.0	497.3	510.2	523.0	535.9	546.0
62.5°	391.5	397.3	404.4	414.4	425.8	437.2	450.2	461.6	473.0	484.4	494.4
65°	348.6	354.4	361.5	370.0	380.1	390.1	401.5	412.9	421.6	430.1	440.1
67.5°	304.4	310.2	317.3	324.4	332.9	343.0	353.0	362.9	371.6	380.1	387.2
70°	261.5	265.7	272.9	278.7	285.8	293.0	301.5	310.2	315.8	322.9	331.6
72.5°	220.2	224.4	230.0	235.8	240.1	245.8	254.3	261.5	268.6	277.3	281.6
75°	180.0	182.9	187.1	191.6	195.8	200.1	205.9	211.5	217.3	221.5	227.3
77.5°	140.0	142.9	147.2	150.1	152.9	155.8	160.1	164.3	168.6	171.5	177.3
80°	102.9	105.8	108.5	111.4	114.3	117.2	118.6	120.1	125.7	130.0	132.9
82.5°	70.1	71.5	72.8	75.7	77.2	78.6	80.0	80.0	82.9	85.7	90.0
85°	40.0	41.5	42.9	42.9	42.9	42.9	44.2	45.8	47.1	50.0	52.9
87.5°	15.7	15.7	17.2	17.2	17.2	17.2	17.2	17.2	18.5	21.4	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



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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1263.2	1263.2	1263.2	1263.2	1263.2	1263.2	1263.2	1263.2	1263.2	1263.2	1263.2
2.5°	1270.4	1271.9	1274.6	1276.2	1277.5	1277.5	1279.1	1280.4	1277.5	1274.6	1273.3
5°	1277.5	1279.1	1283.3	1287.6	1290.5	1293.3	1291.8	1290.5	1287.6	1283.3	1280.4
7.5°	1279.1	1283.3	1287.6	1293.3	1297.6	1303.2	1300.5	1297.6	1291.8	1286.2	1281.8
10°	1274.6	1280.4	1287.6	1294.7	1299.0	1303.2	1300.5	1297.6	1291.8	1284.7	1279.1
12.5°	1269.0	1276.2	1284.7	1291.8	1296.1	1301.9	1297.6	1293.3	1286.2	1279.1	1271.9
15°	1256.1	1264.8	1274.6	1283.3	1290.5	1296.1	1291.8	1288.9	1280.4	1270.4	1260.3
17.5°	1240.4	1251.8	1261.9	1271.9	1277.5	1283.3	1280.4	1277.5	1267.5	1256.1	1244.7
20°	1221.9	1233.3	1243.3	1253.2	1260.3	1266.1	1261.9	1257.6	1247.6	1237.5	1226.1
22.5°	1198.9	1210.3	1221.9	1231.8	1238.9	1244.7	1238.9	1231.8	1221.9	1211.9	1200.5
25°	1170.3	1183.3	1196.0	1206.1	1210.3	1216.1	1210.3	1204.7	1194.7	1184.6	1171.9
27.5°	1141.8	1154.7	1167.4	1177.5	1181.7	1187.5	1181.7	1176.1	1166.1	1156.0	1143.3
30°	1108.9	1121.9	1134.6	1144.7	1148.9	1153.2	1147.5	1141.8	1133.3	1123.2	1110.3
32.5°	1071.8	1084.6	1094.6	1104.7	1110.3	1116.1	1110.3	1106.0	1096.0	1083.2	1070.3
35°	1031.7	1044.6	1057.5	1067.4	1073.2	1079.0	1071.8	1064.7	1056.0	1046.0	1034.6
37.5°	987.4	1001.7	1016.0	1027.4	1031.7	1037.5	1031.7	1024.5	1016.0	1006.0	993.2
40°	945.9	958.9	971.8	983.2	987.4	991.7	986.1	980.3	970.3	960.2	947.5
42.5°	903.2	916.0	927.4	937.4	941.7	947.5	941.7	934.5	927.4	918.9	907.5
45°	857.5	870.2	880.3	890.3	894.6	898.8	893.2	886.0	878.9	871.8	860.4
47.5°	810.3	821.7	831.8	841.6	844.5	848.8	843.2	838.9	831.8	824.6	814.6
50°	761.7	773.1	783.1	791.6	794.5	798.8	793.2	787.4	781.8	776.0	767.5
52.5°	711.7	721.7	731.7	740.2	743.1	746.0	740.2	734.5	728.8	723.1	714.6
55°	660.3	670.2	680.2	687.3	690.2	693.1	687.3	683.1	677.3	673.0	664.5
57.5°	608.7	618.8	627.3	634.4	637.3	640.2	634.4	628.8	624.6	620.1	613.0
60°	555.8	565.9	573.0	578.8	581.7	583.0	577.3	573.0	570.1	567.4	560.2
62.5°	504.4	511.6	518.7	523.0	525.9	527.2	523.0	520.1	517.4	514.5	508.7
65°	450.2	458.7	464.5	468.7	470.1	471.6	467.4	464.5	461.6	458.7	454.4
67.5°	395.9	403.0	407.3	411.6	412.9	412.9	412.9	411.6	408.7	404.4	400.2
70°	341.5	347.2	351.5	354.4	355.7	355.7	353.0	350.1	350.1	348.6	345.9
72.5°	285.8	290.1	293.0	295.9	295.9	295.9	295.9	297.2	295.9	293.0	288.7
75°	232.9	237.2	240.1	241.6	241.6	241.6	241.6	242.9	241.6	240.1	237.2
77.5°	182.9	185.8	187.1	188.7	188.7	188.7	190.0	191.6	190.0	188.7	187.1
80°	135.8	137.1	138.7	140.0	138.7	138.7	140.0	142.9	141.6	140.0	138.7
82.5°	92.9	94.3	95.8	95.8	97.1	98.7	98.7	98.7	98.7	97.1	95.8
85°	55.8	57.2	57.2	57.2	57.2	57.2	58.5	60.1	60.1	58.5	58.5
87.5°	25.7	27.2	25.7	24.3	22.8	22.8	25.7	28.6	28.6	27.2	27.2
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: P735634

CATALOG NUMBER: 4APN6-39-B2750-W2D-CP125-3000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	1263.2	1263.2	1263.2	1263.2
2.5°	1274.6	1273.3	1266.1	1259.0
5°	1279.1	1274.6	1264.8	1254.7
7.5°	1279.1	1273.3	1259.0	1246.0
10°	1271.9	1263.2	1247.6	1231.8
12.5°	1263.2	1253.2	1234.7	1217.5
15°	1250.5	1238.9	1219.0	1198.9
17.5°	1231.8	1217.5	1197.6	1176.1
20°	1213.2	1197.6	1173.2	1150.4
22.5°	1187.5	1173.2	1147.5	1123.2
25°	1158.9	1143.3	1117.4	1091.7
27.5°	1129.0	1110.3	1084.6	1058.9
30°	1094.6	1076.1	1050.4	1024.5
32.5°	1057.5	1040.4	1014.7	987.4
35°	1020.3	1001.7	976.0	948.8
37.5°	978.9	961.8	936.1	910.2
40°	934.5	917.4	891.7	866.0
42.5°	893.2	877.4	851.7	827.4
45°	847.4	831.8	807.4	784.5
47.5°	800.3	784.5	761.7	738.9
50°	754.5	738.9	717.4	696.0
52.5°	703.2	690.2	670.2	650.2
55°	653.1	640.2	620.1	601.6
57.5°	603.1	591.6	573.0	555.8
60°	550.2	538.8	524.5	508.7
62.5°	500.2	490.2	475.9	461.6
65°	447.3	438.8	425.8	412.9
67.5°	393.0	385.9	374.5	362.9
70°	338.7	330.1	321.6	311.5
72.5°	284.5	280.0	271.5	263.0
75°	232.9	228.7	221.5	214.4
77.5°	184.4	180.0	174.4	168.6
80°	135.8	132.9	128.6	124.4
82.5°	94.3	91.5	88.6	84.4
85°	57.2	54.3	51.4	48.7
87.5°	25.7	24.3	21.4	20.1
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)