

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: CORELITE

Report Number: P395621

Luminaire Tested: **I3-FL-80L82765-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395621
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-656-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I3-FL-80L82765-1D-UNV-W2A-W-4 (3000K)
Description: CORELITE I3, FROSTED TOP COVER
8000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6853.0 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.43 / 1.49
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Indirect

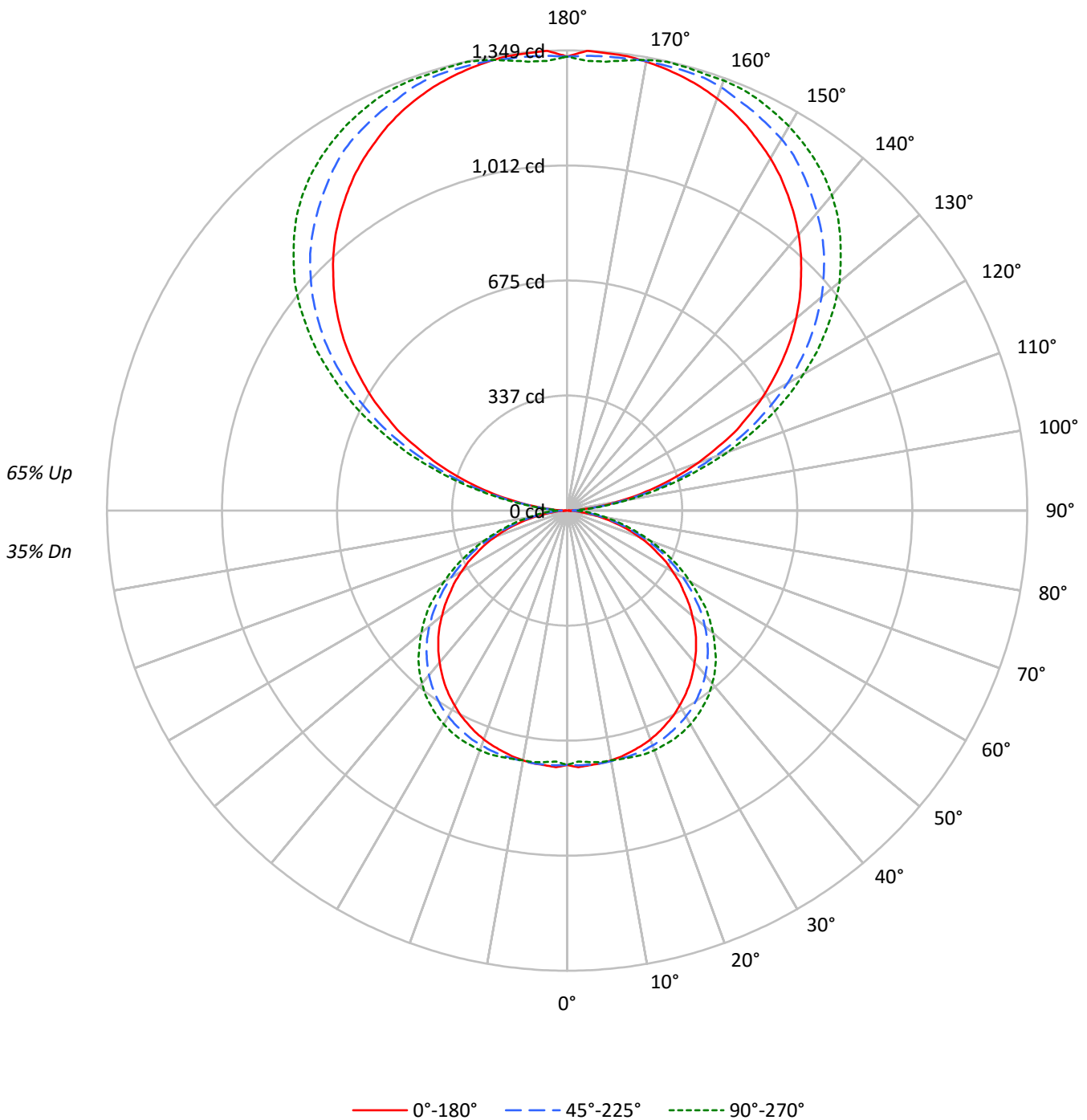
Input Watts (W): 61.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	35
1	94	90	86	83	85	81	78	75	66	63	61	51	49	48	37	36	36	29
2	86	78	72	67	77	71	66	61	57	53	50	44	42	40	33	31	30	24
3	78	69	61	55	70	62	56	51	50	46	42	39	36	33	29	27	25	20
4	71	60	53	47	64	55	48	43	44	39	35	35	31	28	25	23	21	17
5	65	54	46	40	59	49	42	36	39	34	30	31	27	24	23	20	18	15
6	60	48	40	34	54	44	37	31	35	30	26	28	24	21	21	18	16	13
7	55	43	35	30	50	39	32	27	32	27	23	25	21	18	19	16	14	11
8	51	39	31	26	46	35	29	24	29	24	20	23	19	16	17	14	13	10
9	47	35	28	23	43	32	26	21	26	21	18	21	17	15	16	13	11	9
10	44	32	25	20	40	30	23	19	24	19	16	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4098	4098	4098
5°	4119	4031	3967
10°	4120	3975	3921
15°	4111	3941	3905
20°	4112	3907	3899
25°	4101	3872	3884
30°	4087	3836	3849
35°	4067	3774	3792
40°	4026	3695	3710
45°	3985	3581	3595
50°	3893	3422	3420
55°	3782	3206	3215
60°	3654	2954	2904
65°	3474	2648	2579
70°	3227	2256	2179
75°	2808	1793	1733
80°	2193	1274	1269
85°	1188	729	833



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CATALOG NUMBER: I3-FL-80L82765-1D-UNV-W2A-W-4 (3000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.1	1.0
10°-20°	209.1	3.1
20°-30°	329.7	4.8
30°-40°	414.4	6.0
40°-50°	445.6	6.5
50°-60°	409.9	6.0
60°-70°	314.0	4.6
70°-80°	178.8	2.6
80°-90°	55.8	0.8
90°-100°	74.7	1.1
100°-110°	324.8	4.7
110°-120°	594.6	8.7
120°-130°	766.4	11.2
130°-140°	815.5	11.9
140°-150°	750.3	10.9
150°-160°	594.4	8.7
160°-170°	376.4	5.5
170°-180°	127.4	1.9
0°-30°	609.9	8.9
0°-40°	1024.4	14.9
0°-60°	1879.9	27.4
0°-90°	2428.6	35.4
90°-120°	994.0	14.5
90°-150°	3326.2	48.5
90°-180°	4424.0	64.6
0°-180°	6853.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	746	746	746	746	746	
5°	749	742	748	744	740	71
15°	731	727	742	748	748	207
25°	690	692	718	734	740	318
35°	624	632	667	690	697	390
45°	534	548	583	607	617	412
55°	419	435	462	486	495	375
65°	292	301	320	334	340	289
75°	153	157	168	178	183	162
85°	28	36	47	60	64	35
90°	2	6	17	24	28	4
95°	50	49	54	62	64	63
105°	275	288	310	329	334	292
115°	540	564	609	641	658	530
125°	772	805	867	910	929	689
135°	970	1002	1065	1110	1132	749
145°	1129	1153	1205	1241	1261	706
155°	1245	1260	1291	1318	1329	574
165°	1316	1316	1334	1344	1346	372
175°	1346	1336	1336	1331	1321	128
180°	1331	1331	1331	1331	1331	



TEST NUMBER: P395621

CATALOG NUMBER: I3-FL-80L82765-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	745.6	745.6	745.6	745.6	745.6	745.6	745.6	745.6	745.6	745.6	745.6
2.5°	753.1	751.3	749.4	745.6	745.6	743.8	743.8	743.8	743.8	745.6	747.5
5°	749.4	749.4	747.5	743.8	743.8	741.9	741.9	743.8	741.9	743.8	747.5
7.5°	747.5	747.5	745.6	741.9	741.9	741.9	741.9	741.9	741.9	743.8	747.5
10°	743.8	743.8	740.0	738.2	738.2	738.2	738.2	740.0	740.0	741.9	745.6
12.5°	738.2	736.3	734.4	732.6	732.6	732.6	734.4	736.3	736.3	740.0	743.8
15°	730.7	730.7	728.8	727.0	727.0	727.0	728.8	730.7	732.6	736.3	741.9
17.5°	723.2	723.2	721.4	721.4	721.4	721.4	723.2	725.1	728.8	732.6	738.2
20°	713.9	713.9	712.0	712.0	712.0	713.9	713.9	717.6	721.4	727.0	732.6
22.5°	702.7	702.7	702.7	700.8	702.7	704.5	706.4	710.1	713.9	719.5	727.0
25°	689.6	689.6	689.6	689.6	691.5	691.5	695.2	698.9	702.7	710.1	717.6
27.5°	676.5	676.5	676.5	674.6	678.4	680.2	682.1	687.7	691.5	700.8	708.3
30°	659.7	659.7	659.7	661.6	663.4	665.3	669.0	674.6	678.4	687.7	697.1
32.5°	642.9	642.9	642.9	642.9	648.5	650.3	652.2	657.8	665.3	674.6	684.0
35°	624.2	624.2	624.2	626.0	629.8	631.7	635.4	641.0	648.5	657.8	667.2
37.5°	603.6	605.5	605.5	607.4	611.1	614.8	618.6	624.2	631.7	641.0	650.3
40°	581.2	583.1	583.1	584.9	588.7	592.4	596.1	603.6	611.1	620.4	629.8
42.5°	558.8	560.6	560.6	564.4	568.1	571.8	575.6	583.1	590.5	599.9	607.4
45°	534.5	536.3	536.3	540.1	545.7	547.6	553.2	560.6	568.1	575.6	583.1
47.5°	508.3	510.2	510.2	513.9	519.5	523.3	527.0	534.5	540.1	549.4	556.9
50°	478.4	480.3	482.1	485.9	493.4	497.1	500.8	506.4	513.9	519.5	527.0
52.5°	450.4	450.4	452.2	456.0	461.6	465.3	467.2	472.8	482.1	489.6	497.1
55°	418.6	420.5	422.3	426.1	431.7	435.4	437.3	442.9	448.5	454.1	461.6
57.5°	390.6	390.6	392.4	396.2	401.8	403.7	405.5	409.3	416.7	422.3	428.0
60°	356.9	358.8	360.7	364.4	368.2	371.9	371.9	377.5	383.1	388.7	392.4
62.5°	327.0	327.0	328.9	332.6	334.5	338.3	338.3	343.9	347.6	353.2	356.9
65°	291.5	293.4	295.3	297.1	300.9	300.9	302.7	306.5	310.2	314.0	319.6
67.5°	259.8	259.8	261.6	263.5	265.4	265.4	267.2	271.0	274.7	278.4	282.2
70°	224.3	226.1	226.1	226.1	228.0	229.9	231.7	233.6	237.3	239.2	242.9
72.5°	188.7	188.7	190.6	190.6	192.5	194.4	196.2	198.1	200.0	203.7	205.6
75°	153.2	153.2	155.1	155.1	157.0	157.0	157.0	160.7	162.6	166.3	168.2
77.5°	117.7	119.6	119.6	119.6	121.5	123.3	123.3	125.2	128.9	130.8	132.7
80°	86.0	86.0	86.0	86.0	87.8	89.7	91.6	91.6	95.3	99.0	100.9
82.5°	54.2	54.2	56.1	57.9	57.9	59.8	61.7	63.5	67.3	69.1	71.0
85°	28.0	28.0	29.9	31.8	33.6	35.5	35.5	37.4	41.1	44.9	46.7
87.5°	9.3	11.2	11.2	13.1	15.0	16.8	18.7	20.6	24.3	28.0	29.9
90°	1.9	1.9	1.9	3.7	5.6	5.6	7.5	9.3	11.2	13.1	16.8
92.5°	16.8	16.8	15.0	16.8	16.8	16.8	16.8	18.7	20.6	20.6	24.3
95°	50.5	48.6	48.6	48.6	48.6	48.6	48.6	50.5	52.3	52.3	54.2
97.5°	97.2	97.2	95.3	95.3	97.2	97.2	97.2	99.0	102.8	100.9	104.7
100°	151.4	151.4	149.5	151.4	153.2	155.1	158.8	158.8	162.6	162.6	168.2
102.5°	213.0	213.0	211.2	214.9	216.8	220.5	220.5	224.3	229.9	229.9	237.3
105°	274.7	276.6	276.6	280.3	284.1	287.8	287.8	293.4	300.9	300.9	310.2
107.5°	342.0	343.9	343.9	347.6	351.3	355.1	356.9	364.4	371.9	373.8	385.0
110°	407.4	409.3	411.1	414.9	418.6	424.2	428.0	435.4	444.8	448.5	457.9



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CATALOG NUMBER: I3-FL-80L82765-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	469.1	476.5	478.4	484.0	489.6	495.2	499.0	508.3	519.5	525.1	536.3
115°	540.1	543.8	545.7	551.3	558.8	564.4	568.1	577.5	588.7	596.1	609.2
117.5°	598.0	607.4	609.2	614.8	622.3	627.9	631.7	642.9	655.9	665.3	678.4
120°	659.7	667.2	674.6	678.4	684.0	691.5	695.2	706.4	721.4	730.7	745.6
122.5°	715.7	723.2	730.7	736.3	743.8	747.5	753.1	766.2	781.2	792.4	807.3
125°	771.8	781.2	786.8	792.4	801.7	805.4	811.1	824.1	839.1	852.2	867.1
127.5°	826.0	831.6	841.0	844.7	854.0	857.8	863.4	878.3	893.3	906.4	921.3
130°	876.5	883.9	891.4	893.3	904.5	910.1	915.7	928.8	945.6	958.7	973.6
132.5°	925.0	928.8	938.1	943.7	953.1	958.7	964.3	975.5	992.3	1005.4	1020.4
135°	969.9	973.6	984.9	990.5	996.1	1001.7	1009.1	1020.4	1037.2	1050.3	1065.2
137.5°	1014.8	1018.5	1029.7	1035.3	1039.0	1044.7	1050.3	1061.5	1078.3	1091.4	1104.5
140°	1055.9	1059.6	1067.1	1074.6	1078.3	1082.0	1087.6	1098.8	1113.8	1126.9	1140.0
142.5°	1093.2	1097.0	1104.5	1111.9	1117.5	1117.5	1123.1	1132.5	1149.3	1162.4	1173.6
145°	1128.7	1130.6	1138.1	1145.6	1153.0	1153.0	1154.9	1164.3	1179.2	1194.2	1205.4
147.5°	1162.4	1164.3	1169.9	1177.3	1182.9	1184.8	1188.5	1192.3	1207.2	1222.2	1235.3
150°	1192.3	1194.2	1197.9	1205.4	1209.1	1212.8	1216.6	1218.4	1229.7	1242.7	1257.7
152.5°	1218.4	1220.3	1224.1	1229.7	1233.4	1237.1	1240.9	1246.5	1252.1	1265.2	1274.5
155°	1244.6	1246.5	1248.3	1254.0	1257.7	1259.6	1261.4	1268.9	1274.5	1282.0	1291.3
157.5°	1267.0	1267.0	1268.9	1272.6	1276.4	1276.4	1278.3	1285.7	1291.3	1298.8	1304.4
160°	1285.7	1285.7	1287.6	1291.3	1291.3	1293.2	1295.1	1300.7	1304.4	1313.8	1321.2
162.5°	1302.5	1300.7	1302.5	1304.4	1304.4	1304.4	1306.3	1310.0	1315.6	1323.1	1330.6
165°	1315.6	1315.6	1315.6	1317.5	1317.5	1315.6	1315.6	1319.4	1323.1	1328.7	1334.3
167.5°	1326.8	1326.8	1325.0	1326.8	1325.0	1325.0	1323.1	1325.0	1326.8	1332.4	1336.2
170°	1336.2	1334.3	1334.3	1334.3	1332.4	1330.6	1330.6	1330.6	1330.6	1334.3	1338.1
172.5°	1343.7	1341.8	1339.9	1339.9	1336.2	1334.3	1334.3	1332.4	1332.4	1334.3	1336.2
175°	1345.5	1343.7	1341.8	1341.8	1338.1	1336.2	1334.3	1334.3	1332.4	1334.3	1336.2
177.5°	1349.3	1347.4	1343.7	1343.7	1339.9	1336.2	1336.2	1334.3	1332.4	1334.3	1334.3
180°	1330.6	1330.6	1330.6	1330.6	1330.6	1330.6	1330.6	1330.6	1330.6	1330.6	1330.6



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	745.6	745.6	745.6	745.6	745.6	745.6	745.6	745.6	745.6	745.6
2.5°	749.4	749.4	747.5	745.6	745.6	743.8	741.9	740.0	738.2	736.3
5°	749.4	747.5	745.6	745.6	743.8	743.8	743.8	741.9	740.0	740.0
7.5°	749.4	749.4	747.5	745.6	745.6	745.6	745.6	745.6	743.8	743.8
10°	749.4	747.5	747.5	747.5	745.6	747.5	747.5	745.6	745.6	743.8
12.5°	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5	745.6
15°	743.8	745.6	745.6	747.5	747.5	747.5	749.4	749.4	747.5	747.5
17.5°	741.9	743.8	745.6	747.5	747.5	747.5	749.4	749.4	749.4	749.4
20°	738.2	740.0	741.9	743.8	743.8	745.6	745.6	747.5	747.5	747.5
22.5°	730.7	732.6	736.3	738.2	740.0	741.9	743.8	743.8	743.8	743.8
25°	723.2	727.0	728.8	732.6	734.4	736.3	738.2	738.2	738.2	740.0
27.5°	713.9	717.6	723.2	725.1	727.0	728.8	730.7	732.6	732.6	732.6
30°	702.7	708.3	712.0	715.7	717.6	719.5	721.4	721.4	723.2	723.2
32.5°	689.6	695.2	698.9	702.7	704.5	706.4	710.1	710.1	712.0	712.0
35°	672.8	678.4	684.0	687.7	689.6	691.5	695.2	697.1	697.1	697.1
37.5°	655.9	661.6	667.2	672.8	674.6	676.5	680.2	680.2	682.1	682.1
40°	635.4	641.0	646.6	652.2	652.2	655.9	657.8	659.7	661.6	661.6
42.5°	614.8	620.4	624.2	629.8	631.7	633.5	635.4	639.1	639.1	641.0
45°	590.5	596.1	599.9	605.5	607.4	609.2	613.0	614.8	616.7	616.7
47.5°	564.4	568.1	571.8	577.5	581.2	583.1	584.9	586.8	588.7	586.8
50°	534.5	538.2	543.8	549.4	551.3	553.2	556.9	556.9	558.8	558.8
52.5°	502.7	508.3	512.0	517.7	519.5	521.4	525.1	525.1	527.0	527.0
55°	467.2	470.9	474.7	484.0	485.9	487.8	491.5	491.5	493.4	495.2
57.5°	433.6	435.4	441.0	444.8	448.5	448.5	450.4	452.2	454.1	454.1
60°	398.1	399.9	403.7	409.3	409.3	411.1	414.9	414.9	416.7	416.7
62.5°	360.7	364.4	368.2	373.8	371.9	373.8	377.5	377.5	379.4	379.4
65°	323.3	325.2	328.9	332.6	334.5	334.5	336.4	338.3	340.1	340.1
67.5°	284.1	287.8	289.7	295.3	293.4	295.3	297.1	297.1	299.0	299.0
70°	246.7	248.5	252.3	254.2	254.2	256.0	257.9	257.9	257.9	259.8
72.5°	209.3	211.2	213.0	214.9	214.9	216.8	218.6	218.6	220.5	220.5
75°	170.1	173.8	175.7	179.4	177.5	179.4	183.1	183.1	183.1	183.1
77.5°	136.4	138.3	142.0	143.9	143.9	143.9	147.6	145.8	147.6	147.6
80°	102.8	104.7	108.4	110.3	110.3	112.1	114.0	114.0	114.0	115.9
82.5°	72.9	76.6	80.4	82.2	82.2	84.1	86.0	86.0	87.8	87.8
85°	50.5	54.2	57.9	57.9	59.8	61.7	63.5	63.5	63.5	63.5
87.5°	33.6	35.5	37.4	39.2	41.1	41.1	43.0	43.0	44.9	44.9
90°	18.7	20.6	22.4	24.3	24.3	26.2	26.2	28.0	28.0	28.0
92.5°	26.2	26.2	28.0	29.9	29.9	29.9	29.9	31.8	31.8	31.8
95°	56.1	57.9	57.9	61.7	61.7	61.7	63.5	63.5	63.5	63.5
97.5°	108.4	108.4	108.4	112.1	112.1	112.1	114.0	114.0	114.0	115.9
100°	170.1	171.9	171.9	177.5	175.7	179.4	179.4	179.4	179.4	181.3
102.5°	239.2	242.9	244.8	250.4	250.4	250.4	254.2	252.3	254.2	254.2
105°	314.0	317.7	319.6	325.2	328.9	328.9	332.6	330.8	332.6	334.5
107.5°	388.7	394.3	398.1	403.7	407.4	409.3	409.3	411.1	413.0	414.9
110°	465.3	470.9	480.3	485.9	487.8	491.5	493.4	495.2	497.1	500.8



TEST NUMBER: P395621

CATALOG NUMBER: I3-FL-80L82765-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	545.7	551.3	558.8	566.2	564.4	570.0	573.7	575.6	577.5	575.6
115°	618.6	626.0	633.5	641.0	641.0	644.7	652.2	654.1	654.1	657.8
117.5°	687.7	697.1	704.5	712.0	713.9	717.6	723.2	728.8	728.8	732.6
120°	755.0	766.2	773.7	781.2	784.9	786.8	792.4	799.8	799.8	799.8
122.5°	818.5	827.9	837.2	844.7	848.4	852.2	855.9	865.2	865.2	869.0
125°	878.3	889.5	898.9	906.4	910.1	913.8	921.3	926.9	928.8	928.8
127.5°	934.4	945.6	955.0	964.3	966.2	969.9	977.4	984.9	986.7	988.6
130°	986.7	997.9	1007.3	1016.6	1020.4	1022.2	1031.6	1037.2	1040.9	1042.8
132.5°	1033.4	1044.7	1054.0	1063.3	1067.1	1070.8	1076.4	1085.8	1087.6	1087.6
135°	1076.4	1087.6	1097.0	1108.2	1110.1	1113.8	1121.3	1126.9	1130.6	1132.5
137.5°	1115.7	1126.9	1138.1	1147.4	1151.2	1153.0	1160.5	1168.0	1171.7	1173.6
140°	1151.2	1162.4	1173.6	1181.1	1182.9	1188.5	1194.2	1201.6	1205.4	1207.2
142.5°	1184.8	1194.2	1203.5	1212.8	1214.7	1218.4	1224.1	1231.5	1235.3	1237.1
145°	1214.7	1224.1	1231.5	1239.0	1240.9	1244.6	1250.2	1255.8	1259.6	1261.4
147.5°	1242.7	1250.2	1257.7	1263.3	1265.2	1268.9	1272.6	1276.4	1280.1	1282.0
150°	1267.0	1270.8	1278.3	1282.0	1283.9	1287.6	1291.3	1295.1	1298.8	1300.7
152.5°	1285.7	1291.3	1295.1	1300.7	1302.5	1304.4	1308.2	1311.9	1315.6	1315.6
155°	1300.7	1306.3	1310.0	1315.6	1317.5	1319.4	1323.1	1325.0	1328.7	1328.7
157.5°	1311.9	1317.5	1321.2	1325.0	1326.8	1328.7	1330.6	1334.3	1338.1	1338.1
160°	1325.0	1326.8	1328.7	1332.4	1332.4	1334.3	1336.2	1338.1	1341.8	1341.8
162.5°	1336.2	1338.1	1334.3	1336.2	1334.3	1336.2	1338.1	1339.9	1341.8	1341.8
165°	1339.9	1343.7	1341.8	1343.7	1343.7	1343.7	1343.7	1345.5	1345.5	1345.5
167.5°	1339.9	1343.7	1341.8	1341.8	1343.7	1343.7	1345.5	1347.4	1347.4	1347.4
170°	1339.9	1341.8	1339.9	1338.1	1339.9	1339.9	1339.9	1341.8	1341.8	1341.8
172.5°	1338.1	1339.9	1336.2	1334.3	1334.3	1334.3	1332.4	1332.4	1330.6	1330.6
175°	1336.2	1336.2	1332.4	1330.6	1330.6	1330.6	1326.8	1325.0	1323.1	1321.2
177.5°	1334.3	1334.3	1328.7	1326.8	1326.8	1325.0	1325.0	1321.2	1321.2	1319.4
180°	1330.6	1330.6	1330.6	1330.6	1330.6	1330.6	1330.6	1330.6	1330.6	1330.6

(END OF REPORT)